

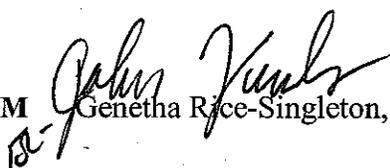
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 221975-, Dodge County
STP00-0066-01(029)
Northwest Eastman Bypass

OFFICE Preconstruction

DATE February 20, 2009

FROM  Genetha Rice-Singleton, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

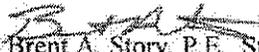
Attachment

DISTRIBUTION:

Ron Wishon
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Tony Collins
Paul Liles
George Brewer
Brent Story
Tim Matthews
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

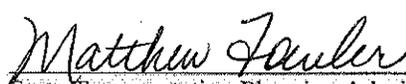
FILE	STP-066-1(29) Dodge County PI No. 221975 Northwest Eastman Bypass from US 341/SR 27 North on new location to US 23/SR 87	OFFICE	Road Design Atlanta, Georgia
		DATE	December 11, 2008
FROM	 Brent A. Story, P.E., State Road Design Engineer		
TO	Genetha Rice-Singleton, Assistant Director of Preconstruction		
SUBJECT	Revised Project Concept Report		

Attached is the original copy of the Revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

The revised concept dated February 13, 2008 called for four 12-ft lanes with a 14-ft flush median. The right-of-way was to be 150-ft and the speed design was 45 mph. The revised concept herein proposes two 12-ft lanes with a 14-ft flush median and graded for a future second lane in each direction to be added as traffic demand increases. The right-of-way and speed design will remain at 150-ft and 45 mph respectively.

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

Date Feb 6, 2009


for State Transportation Planning Administrator

BAS:CAC:TWM

Attachments

cc: Brian Summers, Project Review Engineer
Glenn S. Bowman, State Environmental/Location Engineer
Keith Golden, State Traffic Safety and Design Engineer
Angela T. Alexander, State Transportation Planning Administrator
Angela Whitworth, State Transportation Financial Management Administrator
Tony Collins, District Two Engineer
Paul V. Liles, Jr., State Bridge Design Engineer

REVISED PROJECT CONCEPT REPORT

Need and Purpose: US 23 / SR 87 is a Surface Transportation Assistance Act (STAA) Truck Route and was upgraded in 1992 to allow single and twin trailer trucks. US 23 / SR 87 serves as the main truck access between the cities of McRae and Cochran.

Projects MLP-87(43)(45) are proposed widening and improvements approximately 11 miles of US 23 / SR 87 through Bleckley and Dodge Counties. Project STP-066-1(29) is a project to extend the Eastman Bypass approximately two miles and tie into the southern end of these proposed widening projects.

It is anticipated that the widening of US 23 / SR 87 and the extension of the Eastman Bypass will help enhance the safety and operational characteristics of this route for trucks and passenger vehicles.

This project is needed to satisfactorily accommodate existing and future traffic demands on US 341 / SR 27 to US 23 / SR 87. The purpose of the proposed new location is to provide a facility that will adequately and safely serve current and future travel demand and provide interregional travel continuity for through traffic.

Project location: STP-066-1(29) is located in Dodge County and is proposed as a new bypass around the northwest side of Eastman. Two 12 foot lanes with a 14 foot flush median on 150 feet of right-of-way would be constructed between US 341 / SR 27 and US 23 / SR 87 and graded for a second lane in each direction to be added as traffic demand increases. The proposed roadway would begin at US 341 / SR 27, approximately 0.4 miles east of CR 78 / Orphan Cemetery Road, and extend northward onto new location for approximately 0.9 mile. It would then turn northeastward and intersect CR 138 / Fire tower road, CR 348 / Antioch Baptist Church Road, and end at US 23 / SR 87 approximately 0.2 mile south of CR 137 / Old Dodge High Road. The speed design is 45 mph and the total length of the project would be approximately 2.5 miles.

Description of the approved concept:

PDP Classification: Major X Minor _____

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

Functional Classification: Rural Principal Arterial

U. S. Route Number(s): N/A

State Route Number(s): N/A

Traffic (AADT) as shown in the approved concept:

Current Year: 2009 AADT: 1,900-2,900 Design Year: 2029 AADT: 3,550-5,300

Proposed features to be revised:

- Proposed typical section: Four 12 ft. wide lanes with a 14 ft. flush median
- Proposed design speed mainline: 45 mph
- Proposed right-of-way: Width: 150 feet
- Access: By Permit

Describe the revised feature(s) to be approved:

- Proposed typical section: Two 12 ft. wide lanes with a 14 ft. flush median
- Roadway will be graded for two additional travel lanes to be built as traffic demand increases.

Updated traffic data (AADT):

Current Year: 2009 AADT: 1,900-2,900 Design Year: 2029 AADT: 3,550-5,300

Programmed/Schedule:

P.E. 1999 / \$332,000 R/W: 2009 / \$839,000 Construction: LR / \$7,000,000

VE Study Required Yes () No (X)

Revised cost estimates:

1. Construction cost including contingences, Fuel & Asphalt Index,
2. Right-of-Way, and
3. Utilities

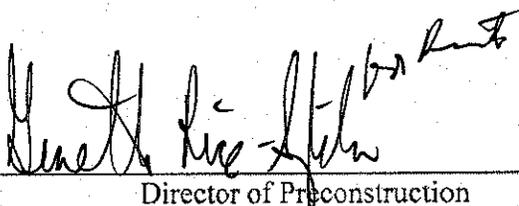
Is the project located in a Non-attainment area?Yes X.....No.

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Attachments:

1. Sketch Map
2. Cost Estimate(s)
3. Typical Section

Concur:

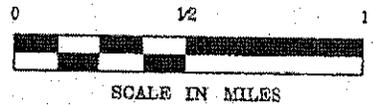
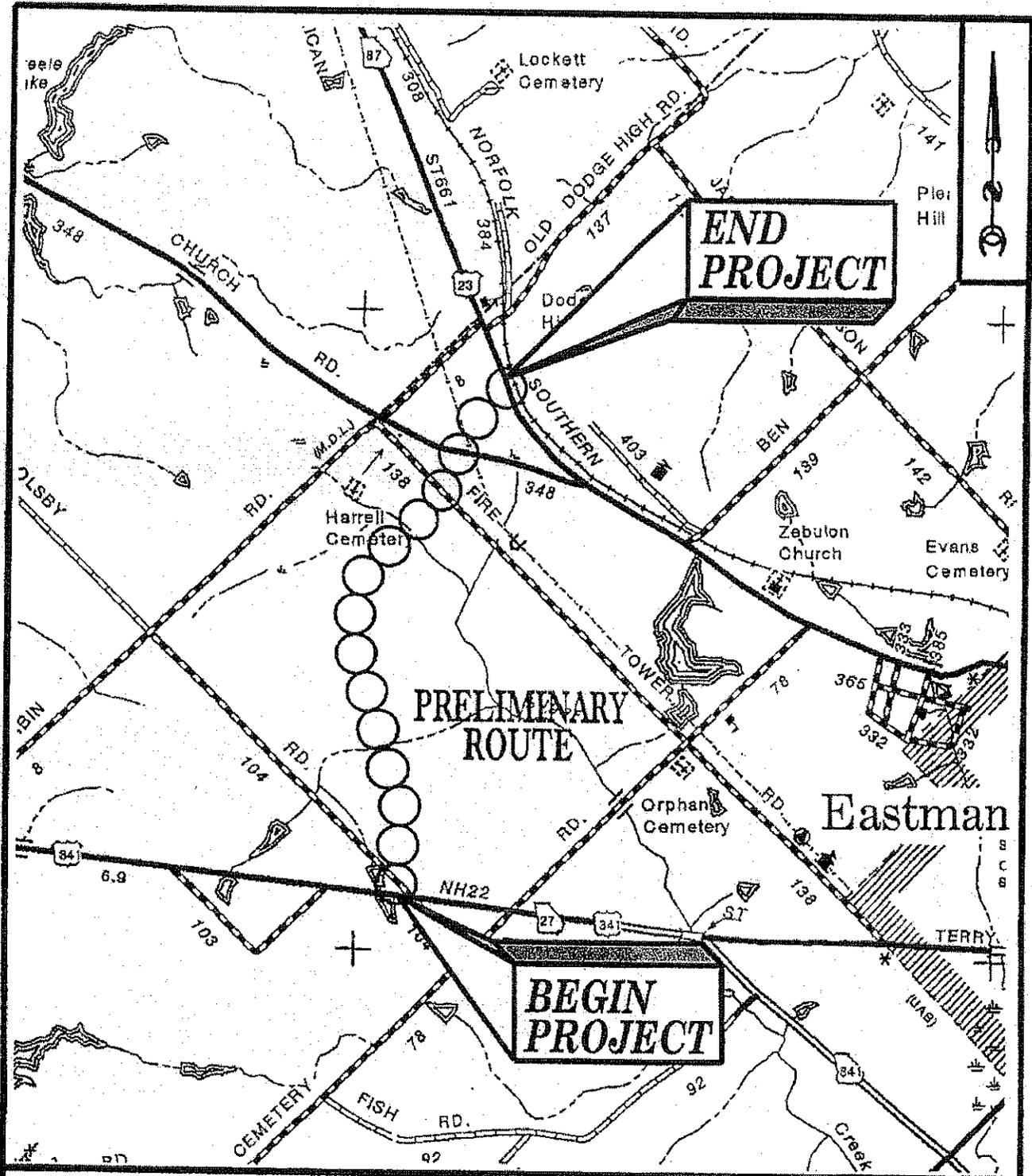


Director of Preconstruction

Approve:



Chief Engineer



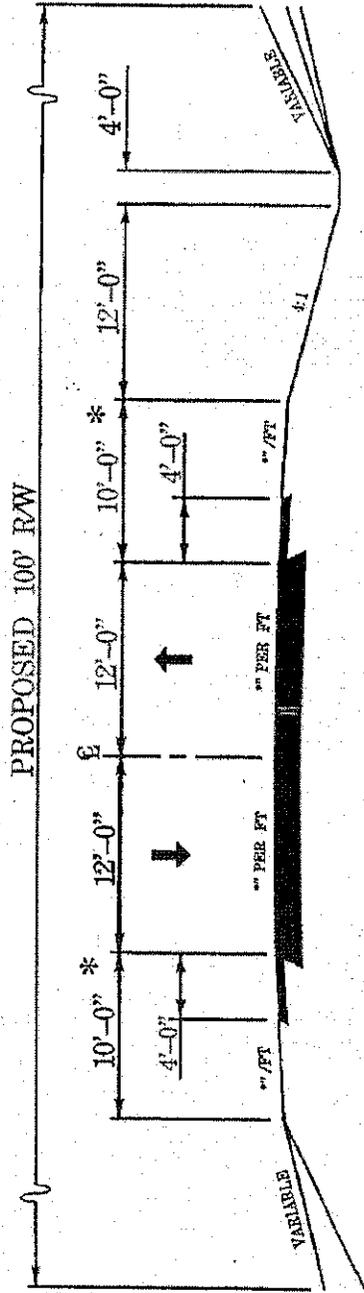
LOCATION

STRIP MAP
 STP-066-1(29)
 NORTHWEST EASTMAN BYPASS
 DODGE COUNTY

P.I.# 221975

SOURCE: GENERAL HIGHWAY MAP, DODGE CO., GEORGIA
 PREPARED BY THE GEORGIA DEPARTMENT OF TRANSPORTATION, 1986

01/2003



* 15'-6" W GUARDRAIL

SIDEROADS TYPICAL SECTION
 NORTHWEST EASTMAN BYPASS
 STP-066-1(29) DODGE COUNTY

NOT TO SCALE

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE PROJECT No. STP00-0066-01(029), Dodge
SR 841/NW Eastman Bypass
P.I. No. 221975

OFFICE Road Design

DATE 12/9/2008

FROM Brent A. Story, P.E., State Road Design Engineer

TO Brian K. Summers, P.E., Project Review Engineer

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Tim W. Matthews, P.E.

MNGT LET DATE 2/15/2011

MNGT R/W DATE 8/31/2009

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$7,790,369.00

DATE 2/15/2008

RIGHT OF WAY \$839,300.00

DATE 2/15/2008

UTILITIES \$0.00

DATE Select Date

REVISED COST ESTIMATES

CONSTRUCTION* \$8,441,291.00

RIGHT OF WAY No Change

UTILITIES** \$67,600.00

* Costs contain 5% Engineering and Inspection and 3% Construction Contingencies and Fuel and Liquid AC Adjustments.

** Costs contain 30% contingency.

REASON FOR COST INCREASE Revised Concept

CONTINGENCY SUMMARY

Construction Cost Estimate:	\$6,392,365.00	(Base Estimate)
Engineering and Inspection:	\$396,495.00	(Base Estimate x 5 %)
Construction Contingency:	\$237,897.00	(Base Estimate x 3 %) (The Construction Contingency is based on the Project Improvement Type in TPro.)
Total Fuel Adjustment	\$ 536,345.00	(From attached worksheet)
Total Liquid AC Adjustment	\$ 1,001,193.00	(From attached worksheet)
Construction Total:	\$8,441,291.00	
Utility Cost Estimate:	\$52,000.00	
Utility Contingency:	\$15,600.00	30 %
Utility Total:	\$67,600.00	

REIMBURSABLE UTILITY COST

Utility Owner	Reimbursable Costs
Ocmulgee Electric Membership: Distribution	7,000.00
Georgia Power: Transmission Structure	45,000.00
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Attachments

c: Genetha Rice - Singleton, Assistant Director of Preconstruction
 Angela Whitworth, Financial Management Administrator

PRELIMINARY COST ESTIMATE

PREPARED BY: Tim Matthews, P.E.

PROJECT LENGTH: 2.5 miles

STP-066-1(29), PI. 221975, SR 841/NW Eastman BYP FM SR 27 NE to SR 87

PROJECT COST	
A. RIGHT-OF-WAY:	
1. PROPERTY (LAND & EASEMENT)	\$ 241,727.00
2. DISPLACEMENTS:	\$ 0.00
3. OTHER COST (ADM./COST, INFLATION)	\$ 597,573.00
SUBTOTAL:A	\$ 839,300.00
B. REIMBURSABLE UTILITIES: (includes 30% contingency)	
1. OCMULGEE ELECTRIC MEMBERSHIP: DISTRIBUTION	\$ 7,000.00
2. GEORGIA POWER TRANSMISSION STRUCTURE	\$ 45,000.00
3. 30% Contingency	\$ 15,600.00
SUBTOTAL:B	\$ 67,600.00
C. CONSTRUCTION:	
1. MAJOR STRUCTURES	N/A
	\$ 0.00
	\$ 0.00
SUBTOTAL:C-1	\$ 0.00
2. GRADING AND DRAINAGE:	
a. EARTHWORK (Unclassified Excavation: 83580 CY@ \$6.00)	\$ 501,480.00
(Borrow Excav, Incl Matl: 40097 CY@ \$6.00)	\$ 240,582.00
b. DRAINAGE:	\$ 500,000.00
SUBTOTAL:C-2	\$ 1,242,062.00
3. BASE AND PAVING:	
a. AGGREGATE BASE (40,787 tons @ \$15/ton)	\$ 611,805.00

PROJECT COST	
b. ASPHALT PAVING:	
12.5mm Superpave (6396 tons @ \$80/ton)	\$ 511,680.00
19mm Superpave (8529 tons @ \$75/ton)	\$ 639,675.00
25mm Superpave (16,449 tons @ \$70/ton)	\$ 1,151,430.00
Bituminous Tack Coat (6898 GL @ \$0.80/GL)	\$ 5,518.00
	SUBTOTAL:C-3 \$ 2,308,303.00
4. LUMP ITEMS:	
a. GRASSING (26 acre @ \$5000/acre)	\$ 130,000.00
b. CLEARING AND GRUBBING (64 acres @ \$8,000/acre)	\$ 512,000.00
c. EROSION CONTROL (3.00mile @ 400,000/mile)	\$ 1,600,000.00
d. TRAFFIC CONTROL	\$ 300,000.00
	SUBTOTAL:C-4 \$ 2,542,000.00
5. MISCELLANEOUS:	
a. LIGHTING	\$ 0.00
b. SIGNING - MARKING	\$ 300,000.00
	SUBTOTAL:C-5 \$ 300,000.00
D. FUEL INDEX COST:	
1. FUEL INDEX	\$ 536,345.00
2. ASPHALT INDEX	\$ 1,001,193.00
	\$ 1,537,537.00

ESTIMATE SUMMARY

ESTIMATE SUMMARY	
A. RIGHT-OF-WAY ()	\$ 839,300.00
B. REIMBURSABLE UTILITIES	\$ 67,600.00
C. CONSTRUCTION	
1. MAJOR STRUCTURES	\$ 0.00
2. GRADING AND DRAINAGE	\$ 1,242,062.00
3. BASE AND PAVING	\$ 2,308,303.00
4. LUMP ITEMS	\$ 2,542,000.00