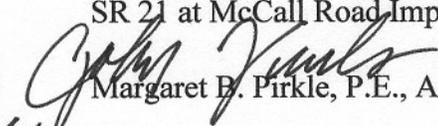


D.O.T. 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0007515, Effingham County **OFFICE** Preconstruction
CSSTP-0007-00(515)
SR 21 at McCall Road Improvements **DATE** August 22, 2005

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

TO  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
Gary Priester
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

PROJECT CONCEPT REPORT

**CSSTP-0007-00(515)
EFFINGHAM COUNTY
0007515**

FEDERAL ROUTE NO:
STATE ROUTE NO: 21
GADOT P.I. NO: 0007515

**SEE ATTACHED
LOCATION SKETCH**

Date of Report: August 2, 2005

RECOMMENDED: 8-9-05 *Theodore J. Gold*
DATE STATE TRAFFIC SAFETY AND DESIGN ENGINEER

RECOMMENDED: 8/16/05 *Gary D. Prister*
DATE DISTRICT ENGINEER

APPROVED: 8/17/05 *O. S. [Signature]*
DATE CHIEF ENGINEER

PROJECT CONCEPT REPORT

P.I. No.: 0007515

Project No.: CSSTP-0007-00(515)

Route No.: SR 21 @ McCall Road

Location: The intersection of SR 21 @ McCall Road (m.p. 1.77) is located 1.2 miles south of the City Limits of Rincon and 1.77 miles north of the Chatham County line.

Description: The installation of a traffic signal is recommended at the intersection of SR 21 @ McCall road. An exclusive right-turn with 250' of storage and a 100' taper will be added on McCall road. The existing right-turn lanes on SR 21 will also be extended. Curbcut ramps and pedestrian crosswalks will also be added at this intersection.

Traffic – Current ADT:

SR 21 -----	32,410 (2005 AADT)
McCall rd. -----	2,027 (2005 AADT)

Existing Typical: SR 21: Four-lane divided highway, with a 20-foot Type B median.

SR 202: Two-lane roadway, 22 feet wide, one in each direction, with a 1-foot paved shoulder and a 3-foot grass shoulder.

Existing Right of Way:

SR 21 -----	100' (Estimated)
McCall Road -----	100' (Estimated)

Existing Traffic Control: SR 21: There are single W2-2L and W2-2R crossroads advanced warning signs accompanied by speed signs on both existing approaches.

McCall road: Stop sign controlled at the intersection of SR 21.

Existing Major Structures: None.

Statement of Need & Purpose: The purpose for this project is to improve the safety and operation of the intersection of State Route 21 at McCall Road in Effingham County. State Route 21 is a major arterial route between Rincon and Chatham county line and continues south to I-95. This intersection on SR 21 has a 2-3' difference in grade between the North and South

bound lanes at this intersection. There is no existing traffic control at the intersection of SR 21 and McCall road, McCall road is controlled by a stop sign and stop bar. The accident history shows that in a 24 month period beginning from 2001 to 2003, there were twenty three accidents at this intersection. Of these, ten were considered to be correctable by the installation of a traffic signal. The installation of a signal at this intersection and the addition of a right turn on McCall road would greatly improve the safety of the traveling public at this intersection.

Length: 0.266 miles

Termini: - SR 21 -
From M.P.: 1.637
To M.P. : 1.903

PDP Class: Minor Existing

Functional Class: SR 21 ----- Rural Principal Arterial
McCall Road ----- Rural Minor Arterial Street

Design Speed: SR 21 ----- 55
mph
McCall Road ----- 35
mph

Proposed Typical Section: SR 21: Four-lane divided highway, with a Type A median crossover.

McCall Road: Two 12-foot travel lanes, one in each direction, with a 12- foot right turn lane in the east bound direction.

Proposed major structures: None.

Type Access: By Permit.

Traffic Control During Construction: Single lane closures will be required during construction.

Right-of-Way Requirement: Georgia Department of Transportation shall be responsible for the acquisition of all required right-of-way for this project.

Utilities: Effingham County shall be responsible for all public reimbursable utility adjustments. Georgia Department of Transportation shall be responsible for all private reimbursable utility adjustments.

Estimated Cost:

<u>Item</u>	<u>Total Amount</u>	
	<u>FEDERAL/STATE</u>	<u>LOCAL</u>
Construction-----	\$ 300,000.00	
Traffic Signal -----	\$ 80,000.00	
Railroad Equipment -----	\$ 0	
Utilities-----	\$ REQUESTED	REQUESTED
E & C 10%-----	\$ 38,000.00	
Total Construction-----	\$ 418,000.00	
 R/W-----	 \$ 8,000.00	
	 Estimated LGPA Total----- \$ REQUESTED	

Permits Required: Traffic Signal Permit

Level of Environmental Analysis: Categorical Exclusion is anticipated.

Level of Public Involvement: None.

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

Design Variances Required: None.

Alternatives Considered: None.

Comments:

Prepared By:

Myles Brewer

Attachments:

**Location and Design Approval Request
Conceptual Layout Sketch**

