ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #0007076
CSBRG-0007-00(076)
Rockdale County
Bridge Replacement for Irwin Bridge
Road/CR 442 Over the Yellow River

OFFICE Design Policy & Support

DATE March 31, 2010

FROM for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED REVISED CONCEPT REPORT WITH NOTICE OF LOCATION & DESIGN**

Attached is the approved Revised Concept Report with Notice of Location and Design for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Adminstrator
Ron Wishon, State Project Review Engineer
Glenn Bowman, State Environmental Administrator
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Keith Golden, State Traffic Operations Engineer
Angela Alexander, State Transportation Planning Administrator
Paul Liles, State Bridge Engineer
Bobby Hilliard, State Program Delivery Engineer
Angela Robinson, Financial Management Administrator
Jeff Baker, State Utilities Engineer
Ted Crabtree, Chamblee District Planning & Programming Engineer
Jonathan Walker, Chamblee District Utilities Engineer
Bryant Poole, Chamblee District Engineer
Mike Lobdell, Project Manager & Chamblee District Preconstruction Engineer
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: PI No. 0007076, Rockdale County
CSBRG-0007-00(076)
Bridge Replacement for Irwin Bridge Road/CR 442
over the Yellow River

OFFICE: District 7 Preconstruction

DATE: February 2, 2010

FROM: Bryant Poole, District Engineer

TO: Genetha Rice-Singleton, Program Control Administrator

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 concept report has been revised to construct a new bridge on the existing alignment using an off-site detour during construction as the preferred alternate. The original preferred alternate of a permanent offset alignment would introduce two s-curves, one at each end of the proposed bridge, into an otherwise straight alignment.

The revised concept report 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 2-16-2010

Angela J. Alexander
State Transportation Planning Administrator

Distribution:

Project Review Engineer
State Environmental/~~Location Engineer~~ Administrator - approval on file
State Traffic Operations Engineer
State Transportation Planning Administrator
State Transportation Financial Management Administrator
State Bridge Design Engineer

REVISED PROJECT CONCEPT REPORT

Need and Purpose: The existing bridge carrying Irwin Bridge Road over the Yellow River, in north central Rockdale County, was built in 1962 and currently has a sufficiency rating of 40.13. Bridges with a sufficiency rating less than 50 are considered structurally deficient. The existing bridge is load rated and trucks are required to take an alternate route.

Project Location: The project is located in north central Rockdale County, Georgia. The proposed length of the project is approximately 0.3 miles.

Description of the approved concept:

PDP Classification: Major _____ Minor __X__

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

Functional Classification: Irwin Bridge Road – Minor Collector

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

Traffic (AADT) as shown in the approved concept:
Base Year: _6136 (2010)_ Design Year: _10390 (2030)_

Updated traffic data (AADT):
Base Year: _6136 (2010)_ Design Year: _10390 (2030)_

Approved Programmed/Schedule:
P.E. _2010_____ R/W: _7/17/09____ Construction: _07/01/10___

VE Study Required **Yes( )** **No(X)**

Benefit/Cost Ratio _N/A_

Is the project located in an Ozone Non-Attainment area? **Yes(X)** **No( )**

Is the project in a PM2.5 Non-Attainment area? **Yes (X)** **No ( )**

This project is air quality exempt because it does not increase capacity.

Approved Features:	Proposed Features:
The logical terminus south of the bridge is 40 feet south of the existing intersection with Farmer Road. The logical north terminus is 500 feet beyond the existing bridge.	The logical terminus south of the bridge is 445 feet from the existing bridge, and within the vertical sag curve on the approach to the existing bridge. This terminus eliminates any impact to the intersection with Farmer Road. The logical north terminus is 540 feet beyond the existing.
The preferred construction method is to construct a new bridge at a permanent offset parallel to the existing bridge to be posted at 45 mph. Traffic will be retained on the existing bridge while the new parallel offset structure is built.	The preferred construction method is to utilize an off-site detour. This will allow the new bridge to be constructed on the same tangent alignment as the existing bridge. The final alignment will maintain the existing 45 mph speed limit. Traffic will be rerouted onto the off-site detour during construction.
Reason for Change: Constructing a permanent offset alignment will introduce two s-curves into an otherwise straight alignment. Utilizing an off-site detour will allow the new bridge to be placed on the existing tangent alignment.	

Updated Cost Estimate	
Construction including Contingencies	$2,724,341
Fuel Adjustment	$107,000
Right-of-Way	$50,000
Utilities (reimbursable)	$40,000
Utility Contingencies	$4,000

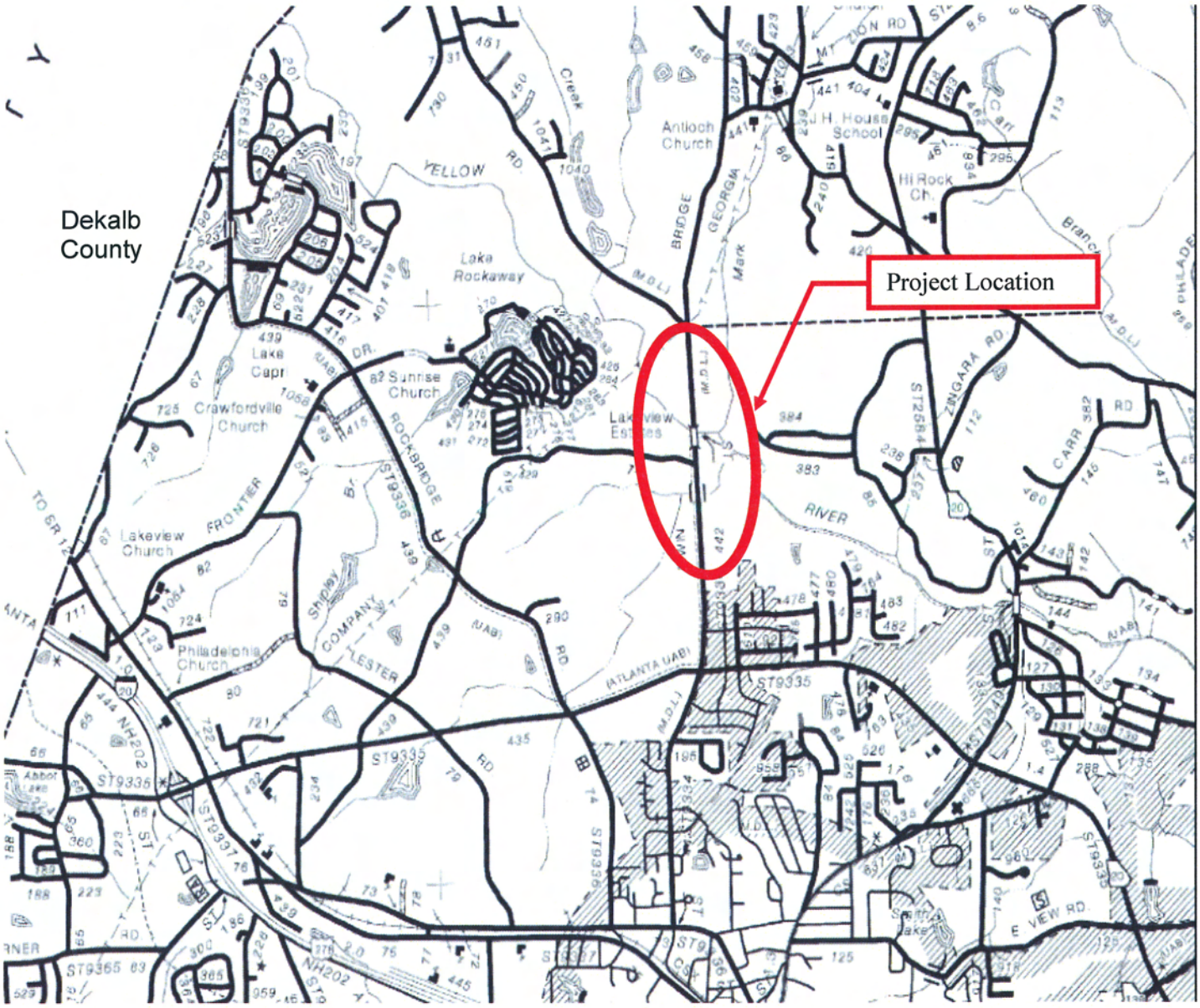
Recommendation: Recommend that the proposed revision to the concept be approved for implementation

Attachments:

1. Sketch map
2. Cost Estimate
3. Excerpt from Regional Transportation Plan Project List
4. Notice of Location and Design Approval

Concur: _____
Director of Engineering

Approve: _____ 3/25/2008
Chief Engineer Date



Location Map

CSBRG-0007-00(076), P.I. 0007076
Rockdale County, Ga.
Bridge replacement for Irwin Bridge Road/CR 442 over the Yellow River.

PRELIMINARY CONSTRUCTION AND RIGHT OF WAY COST ESTIMATE - ALTERNATE (Off-site Detour)

PROJECT NUMBER: CSBRG-0007-00(76) COUNTY: ROCKDALE
DATE: 1/19/2010 LETTING DATE: AUGUST 2010
PREPARED BY: H&L Inc.
( ) PROGRAMMING PROCESS (x) CONCEPT DEVELOPMENT

PROJECT COST

1. MAJOR STRUCTURES					
a. Irwin Bridge Road over the Yellow River	17733	SF	$ 100.00		$1,773,300
b. Demolition of existing Bridge	1	Lump	$ 250,000.00		$250,000
				SUBTOTAL 1:	**$2,023,300**
2. BASE AND PAVING					
a. GRADED AGGREGATE BASE	2200	TN	$ 20.00		$44,000
b. 12.5mm SUPERPAVE	280	TN	$ 75.00		$21,000
c. 19.0mm SUPERPAVE	530	TN	$ 75.00		$39,750
d. 25.0mm SUPERPAVE	1060	TN	$ 75.00		$79,500
e. LEVELING	25	TN	$ 75.00		$1,875
f. BITUM TACK COAT	560	GL	$ 2.50		$1,400
				SUBTOTAL 2:	**$187,525**
3. LUMP ITEMS					
a. TRAFFIC CONTROL	1	LS	$ 35,000		$35,000
b. GRADING COMPLETE	1	LS	$ 40,000		$40,000
c. EROSION CONTROL	1	LS	$ 50,000		$50,000
d. SIGNING AND MARKING	1	LS	$ 12,500		$12,500
				SUBTOTAL 3:	**$137,500**
4. MISCELLANEOUS					
a. GUARD RAIL TP T	85	LF	$ 42.00		$3,570
b. GUARD RAIL TP W	1250	LF	$ 19.00		$23,750
c. TP1 ANCHORS	3	EA	$ 685.00		$2,055
d. TP12 ANCHORS	3	EA	$ 1,870.00		$5,610
e. REINF CONC APPROACH SLAB	280	SY	$ 140.00		$39,200
f. FIELD OFFICE	1	EA	$ 70,000.00		$70,000
				SUBTOTAL 4:	**$140,615**
5. DRAINAGE					
a. SIDE DRAIN PIPES	135	LF	$ 25.00		$3,375
b. FLARED END SECTIONS	8	EA	$ 460.00		$3,680
c. CONCRETE SPILLWAYS	2	EA	$ 1,700.00		$3,400
				SUBTOTAL 5:	**$10,455**

ESTIMATE SUMMARY

SUBTOTAL CONSTRUCTION COST	$2,499,395
E. & C. (9%)	$224,946
FUEL ADJUSTMENTS	$107,000
INFLATION (NOT INCLUDED)	
TOTAL CONSTRUCTION COST	**$2,831,341**
RIGHT OF WAY - Req'd R/W and Construction Easements	$50,000
REIMBURSABLE UTILITIES	$40,000
GRAND TOTAL PROJECT COSTS	**$2,921,341**

RO-249 | **IRWIN BRIDGE ROAD**

0007076 | AT YELLOW RIVER

Programmed

Jurisdiction: Rockdale County
Sponsor: Rockdale County
Service Type: **Bridge Upgrade**

Existing	Planned	Length (mi.)
2	2	N/A

Analysis: Exempt from Air Quality Analysis (40 CFR 93)

Network Year: 2020
Open Year: 2012

	Status	Year	Fund Type	Federal	State	Local	Bonds	Total
PE	AUTH	2007	Local Jurisdiction/Municipality Funds	$0,000	$0,000	$0,000	$0,000	**$0,000**
PE	AUTH	2010	Bridge (Off-System)	$0,000	$0,000	$0,000	$0,000	**$0,000**
ROW		2010	Local Jurisdiction/Municipality Funds	$0,000	$0,000	$100,000	$0,000	**$100,000**
CST		2011	Bridge (Off-System)	$3,368,800	$842,200	$0,000	$0,000	**$4,211,000**
				$3,368,800	**$842,200**	**$100,000**	**$0,000**	**$4,311,000**

RO-250 | **SR 162 (SALEM ROAD) REPAVING**

M003836 | FROM NEWTON COUNTY LINE TO DOGWOOD DRIVE

Programmed

Jurisdiction: Rockdale County
Sponsor: GDOT
Service Type: **Roadway Maintenance / Operations**

Existing	Planned	Length (mi.)
N/A	N/A	2.39

Analysis: Exempt from Air Quality Analysis (40 CFR 93)

Network Year: 2020
Open Year: 2010

	Status	Year	Fund Type	Federal	State	Local	Bonds	Total
CST	AUTH	2009	ARRA - Statewide Flexible (GDOT)	$0,000	$0,000	$0,000	$0,000	**$0,000**
				$0,000	**$0,000**	**$0,000**	**$0,000**	**$0,000**

RO-251 | **SR 20 (SIGMAN ROAD) REPAVING**

M003983 | FROM SIGMAN ROAD / LOGANVILLE HIGHWAY INTERSECTION TO SR 13

Programmed

Jurisdiction: Rockdale County
Sponsor: GDOT
Service Type: **Roadway Maintenance / Operations**

Existing	Planned	Length (mi.)
N/A	N/A	1.34

Analysis: Exempt from Air Quality Analysis (40 CFR 93)

Network Year: 2020
Open Year: 2010

	Status	Year	Fund Type	Federal	State	Local	Bonds	Total
CST	AUTH	2009	ARRA - Statewide Flexible (GDOT)	$0,000	$0,000	$0,000	$0,000	**$0,000**
				$0,000	**$0,000**	**$0,000**	**$0,000**	**$0,000**

NOTICE OF LOCATION AND DESIGN APPROVAL

CSBRG-0007-00(076) ROCKDALE COUNTY
P.I. Number 0007076

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 March 31, 2010.

The existing bridge carrying Irwin Bridge Road over the Yellow River, in north central Rockdale County, was built in 1962 and currently has a sufficiency rating of 40.13. Bridges with a sufficiency rating less than 50 are considered structurally deficient. The existing bridge is load rated and trucks are required to take an alternate route. This project proposes replacing the existing bridge and improving the approaches on either side of the bridge. The project lies within land lots 276-278 and 289-290.

The proposed road improvements begin on Irwin Bridge Road approximately 445 feet south of the existing bridge and end 540 feet north of the existing bridge on Irwin Bridge Road. The proposed road section for Irwin Bridge Road will consist of (2) 12'-0" lanes with 10'-0" rural shoulders. The bridge will be replaced with a structure that is 43'-3" wide to allow for (2) 12'-0" travel lanes and (2) 8'-0" rural shoulders and standard bridge barriers on both sides.

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:

Thomas C. Parker
Thom.Parker@dot.state.ga.us
805 George Luther Drive, Decatur, GA 30032
(404) 299-4386

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:

Mike Lobdell
Georgia DOT – District 7
Mike.Lobdell@dot.state.ga.us
5025 New Peachtree Road, Chamblee, GA 30341
(770) 896-1257

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.