ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-BRF-030-2(41)/(42) Wilcox County
P. I. Nos. 432070/432075

OFFICE Preconstruction

DATE May 30, 2000

CWHutto

FROM C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT **PROJECT CONCEPT REPORT APPROVAL**

Attached for your files is the approval for subject project.

CWH/cj

Attachment

DISTRIBUTION:

Tom Turner
David Mulling
David Studstill (ATTN: Harvey Keepler)
Jerry Hobbs
Herman Griffin
Georgene Geary (ATTN: Michael Henry)
Marion Waters
Marta Rosen
Paul Liles
Don Mills
~~Jimmy Chambers (ATTN: Ted Gashin)~~
David Crim

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-BRF-030-2(41)/(42) Wilcox County
P.I. Nos. 432070/432075

OFFICE Preconstruction

DATE May 8, 2000

FROM Thomas L. Turner, P.E., Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT

These combined projects are the replacement of two narrow and structurally deficient bridges on US 280/SR 30 over the Alapaha River Tributary, 0.80 mile and 1.30 miles east of Seville, Georgia. The existing bridges, constructed in 1942, consist of a steel H-pile bent substructure, steel beam superstructure, and a concrete deck. The original design load capacity is H-15 and the sufficiency ratings are 66 and 63. In accordance with DOT MOG 2405-1, the existing bridges meet the established criteria for replacement. The existing approaches consist of a two lane roadway with rural shoulders on 100' of existing right-of-way. State Route 30/US 280, functionally classified as a rural principal arterial, is an east-west corridor in the central portion of Georgia. These bridges are located between Cordele and McRae. The base year traffic (2006) along this section of US 280/SR 30 is 3,700 VPD and the 20 year (2026) or design year projected volume is 6,000 VPD. The posted speed and the design speed are 55 MPH.

The construction proposes to replace the existing bridges over the Alapaha River Tributary with new 180' x 44' and 240' x 44' concrete structures at the existing bridge sites. The approaches will consist of two, 12' lanes with 10' rural shoulders (2' paved). Traffic will be maintained during construction utilizing an on-site detour.

Environmental concerns include requiring a COE 404 Permit; a Categorical Exclusion will be prepared; a public hearing is not required; time saving procedures are appropriate.

The estimated costs for these projects are:
STP-BRF-030-2(41) Wilcox County

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$1,264,000	$825,000	2004	02-07
Right-of-Way	$ 2,000	$ 1,000		
Utilities*	-----	-----		

*LGPA to be sent.

STP-BRF-030-2(41) / (42)
May 8, 2000

STP-BRF-030-2(42) Wilcox County

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$1,502,000	$650,000	2004	02-07
Right-of-Way	$ 2,000	$ 10,000		
Utilities*	-----	-----		

*LGPA to be sent.

These projects are in the STIP. I recommend these project concepts be approved.

TLT:JDQ/cj

Attachment

CONCUR _____
Frank L. Danchetz, P.E., Chief Engineer

APPROVE _____
Wayne Shackelford, Commissioner

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

RECEIVED
MAY - 5 2000

FILE: STP-030-2(41) Wilcox
P.I. Number 432070

OFFICE: Atlanta, Georgia

DATE: May 4, 2000

FROM: David Mulling, Project Review Engineer DTM

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: **CONCEPT REPORT**

We have reviewed the concept report submitted April 12, 2000 by the letter from Zane Hutchinson dated April 11, 2000, and have no comments.

The costs for the project are:

Construction	$999,000
Inflation	$150,000
E&C	$115,000
Reimbursable Utilities	$ 0
Right of Way	$ 2,000

DTM

c: Zane Hutchinson – District 4 Design

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

RECEIVED
MAY - 5 2000

FILE: STP-BRF-030-2(42) Wilcox
P.I. Number 432075

OFFICE: Atlanta, Georgia

DATE: May 4, 2000

FROM: David Mulling, Project Review Engineer DTM

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: **CONCEPT REPORT**

We have reviewed the concept report submitted April 12, 2000 by the letter from Zane Hutchinson dated April 11, 2000, and have no comments.

The costs for the project are:

Construction	$1,187,000
Inflation	$ 178,000
E&C	$ 136,000
Reimbursable Utilities	$ 0
Right of Way	$ 2,,000

DTM

c: Zane Hutchinson – District 4 Design

PROJECT CONCEPT REPORT

STP-BRF-030-2 (41)
P. I. NO. 432070
WILCOX COUNTY

Federal Route No.: 280 **Date of Report:** April 07, 2000

State Route No.: 30

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

Date	**State Transportation Planing Administration**
Date	**State Transportation Programming Engineer**
Date	**State Environmental/Location Engineer**
4-11-00 **Date**	**District Engineer/Tifton**
5/4/00 **Date**	**Project Review Engineer**
Date	**State Traffic Operation Engineer**
Date	**State Bridge & Structural Engineer**

PROJECT CONCEPT REPORT

PROJECT NUMBER: STP-BRF-030-2 (41)

PROJECT LOCATION AND DESCRIPTION

STP-BRF-030-2 (41) is a bridge replacement located on SR 30/US 280 in Wilcox County @ the Alapaha River Tributary approximately 0.80 miles East of Seville. The project will begin at approximately MP 1.10 and goes East for approximately 0.26 miles to MP 1.26. The existing roadway is a rural two-lane with open ditches on 100 ft. of Right of Way . The proposed Typical Section is a two-lane rural roadway with open ditches on 100 ft. of Right of Way. An on-site detour will be required on the South side, an additional 50 ft. of temporary easement will be required to build the detour.

The project lies entirely in ~~Colquitt~~ WILCOX County, 12th Land District, GMD 1103, and Land Lot 131.

TRAFFIC

CURRENT		PROJECTED	
YEAR	**AADT**	**YEAR**	**AADT**
2006	**3700**	**2026**	**6000**

PDP CLASSIFICATION	FUNCTIONAL CLASSIFICATION
MINOR	RURAL PRINCIPAL ARTERIAL

FOS ( ) **EXEMPT (X)** **N/A ( )**

NEED AND PURPOSE

SEE ATTACHMENT

EXISTING ROADWAY

TYPICAL SECTION:	2-LANE RURAL WITH GRADED SHOULDER AND OPEN DITCHES	RIGHT-OF-WAY WIDTH 100
POSTED SPEED	**DEGREE OF CURVE**	**MAX GRADE**
55 MPH	2	0.6 %

MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH	PRIORITY RATING	SUFF. RATING
Bridge @ Alapaha River Tributary	162	28	N/A	66.6

HAZARD INDEX:

PROPOSED ROADWAY

LOCATION ON OLD ALIGNMENT

TYPICAL SECTION:	2-LANE RURAL WITH 24 FT. ASPHALT PAVING WITH 10 FT GRADED SHOULDER WITH OPEN DITCHES			
DESIGN SPEED	**DEGREE OF CURVE**		**MAX. GRADE**	
55 MPH	**ALLOWABLE**	6	**ALLOWABLE**	5 %
	PROPOSED	2	**PROPOSED**	0.6 %

PROPOSED MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH	
Bridge @ Alapaha River Tributary	180 ft.	44 ft.	

PROPOSED RIGHT-OF-WAY

RIGHT-OF-WAY WIDTH	PARCELS IMPACTED	DISPLACEMENTS					
100 ft.	4	**RES.:**	0	**BUS.:**	0	**M.H.:**	0

TYPE OF ACCESS CONTROL: By permit -DOT.

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE:	March 21, 2000
CONFORM TO TIP/STIP?	**YES** X **NO** _____
MEET LOGICAL TERMINI REQUIREMENTS?	**YES** X **NO** _____
P.A.R. MEETING:	N/A
PERMITS REQUIRED:	Nationwide 404
LEVEL OF PUBLIC INVOLVEMENT:	NONE

SCHEDULING CONSIDERATIONS:

TIME TO COMPLETE ENVIRONMENTAL:	10 MONTHS
TIME TO COMPLETE PRELIMINARY RD/RW PLANS:	10 MONTHS
TIME TO COMPLETE 404 PERMIT:	10 MONTHS
TIME TO COMPLETE FINAL CONSTRUCTION PLANS:	12 MONTHS
TIME TO BUY RIGHTS-OF-WAY:	12 MONTHS

OTHER PROJECTS IN AREA:	STP-BRF-030-2 (42) WILCOX
LOCAL GOVERNMENT COMMITMENTS:	LGPA

MISCELLANEOUS

TRAFFIC CONTROL DURING CONSTRUCTION:	Traffic shall be maintained during construction by utilizing an on-site detour.
LEVEL OF ENVIRONMENTAL ANALYSIS:	C.E.
UNDERGROUND STORAGE TANKS:	NONE
HAZARDOUS WASTE SITES:	NONE

DESIGN VARIATIONS REQUEST

	YES	NO	UNDETERMINED
SUBSTANDARD HORIZONTAL ALIGNMENT	( )	(X)	( )
SUBSTANDARD ROADWAY WIDTH	( )	(X)	( )
SUBSTANDARD SHOULDER WIDTH	( )	(X)	( )
SUBSTANDARD VERTICAL GRADES	( )	(X)	( )
SUBSTANDARD CROSS SLOPES	( )	(X)	( )
SUBSTANDARD STOPPING SIGHT DISTANCE	( )	(X)	( )
SUBSTANDARD SUPERELEVATION RATES	( )	(X)	( )
SUBSTANDARD HORIZONTAL CLEARANCE	( )	(X)	( )
SUBSTANDARD SPEED DESIGN	( )	(X)	( )
SUBSTANDARD VERTICAL CLEARANCE	( )	(X)	( )
SUBSTANDARD BRIDGE WIDTH	( )	(X)	( )
SUBSTANDARD BRIDGE STRUCTURAL CAPACITY	( )	(X)	( )

ALTERNATIVES CONSIDERED

NO BUILD

ESTIMATED COST

CONSTRUCTION:	999,000.00	**RIGHT-OF-WAY:**	2,000.00
E & C (10%):	99,900.00	**ACQUIRED BY:**	D.O.T. FORCES
INFLATION:	164,835.00	**UTILITIES:**	0.00
(3 yrs at 5% per yr.): 15 %		**ADJUSTED BY:**	UTILITY OWNERS
TOTAL CONSTRUCTION COST:	**1,263,735.00**		

COMMENTS

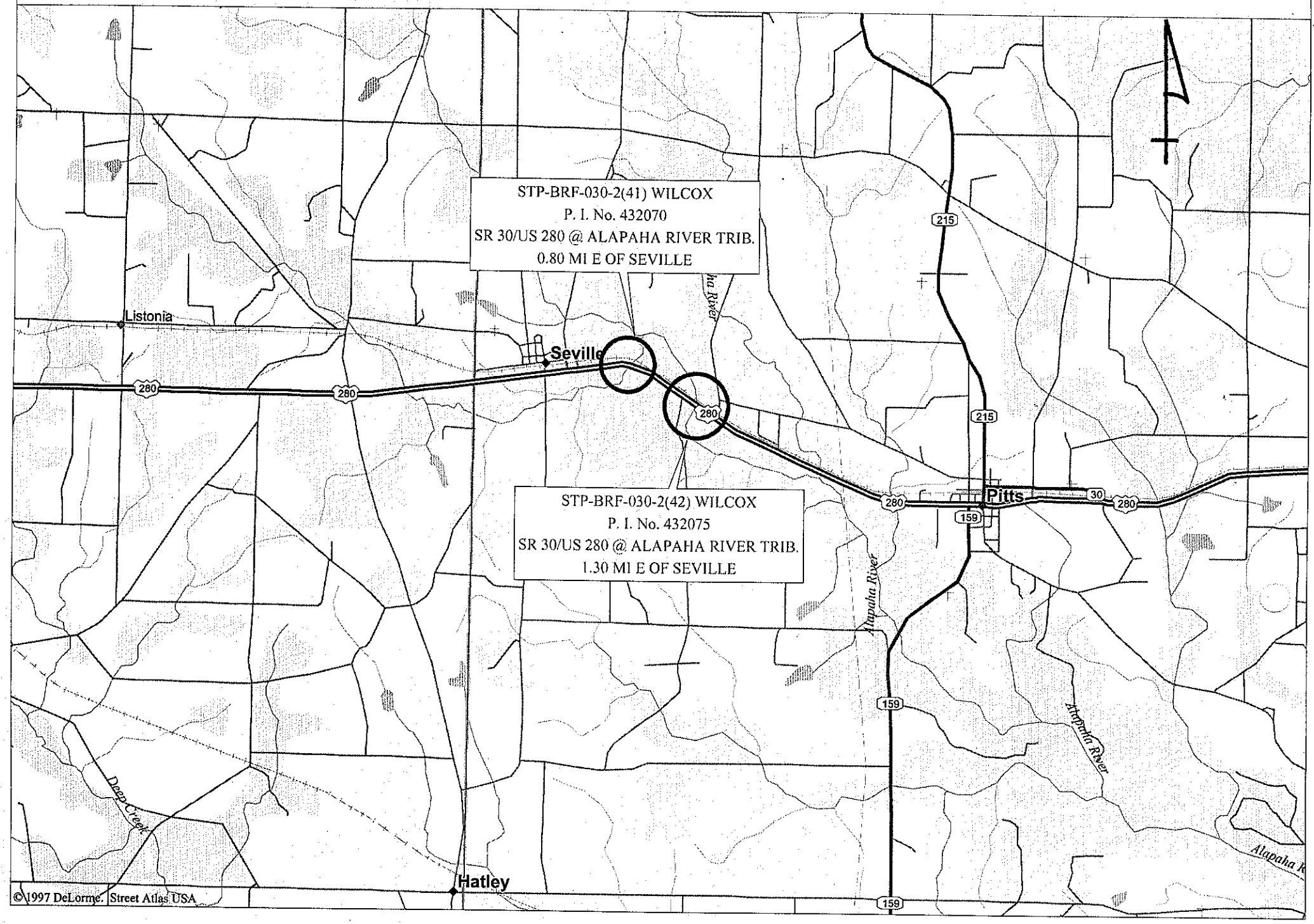
The concept committee recommends the project be built.

ATTACHMENTS: Cost Estimate, Typical Section, Team Meeting Minutes, Location Sketch. Traffic Count, Accident History, Bridge Rehab./Replacement Study.

PREPARED BY: Zane G. Hutchinson

Zane Hutchinson, District Design Engineer

LOCATION SKETCH



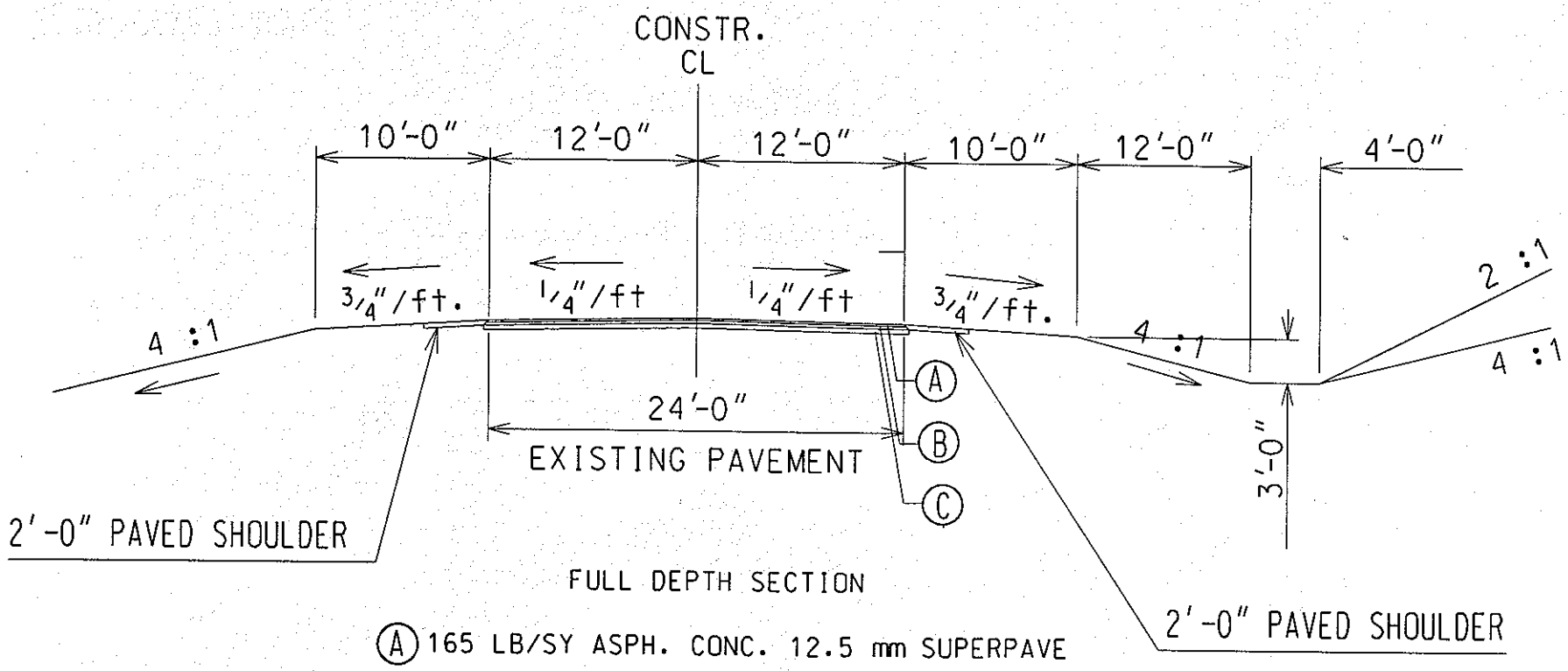
Need and Purpose
WILCOX COUNTY
STP-BRF-030-1 (41)
PI # 432070

Project STP-BRF-030-1 (41) will replace the existing 28-foot wide bridge located on SR-30/ US-280 over the Alapaha River Tributary with a 44-foot wide bridge. The bridge has a sufficiency rating of 66.6 and a design load of H-15. The 1998 traffic volume is 3,100 vehicles. The volume is projected to increase to 4,700 vehicles by 2016. SR-30/US-280 is designated as a STAA truck route.

The desired width, according to AASHTO guidelines, for bridges on a rural two-lane road with design year traffic volumes greater than 4,000 ADT is 40 feet. Instead of widening, the Department's policy is to replace bridges located on the State Highway System that have a designed H-15 live load. This project is in accordance with AASHTO guidelines and the Department's policy on bridge replacements.

STP-BRF-030-2 (41) WILCOX
P.I. NO. 432070

FULL DEPTH TYPICAL SECTION



FULL DEPTH SECTION

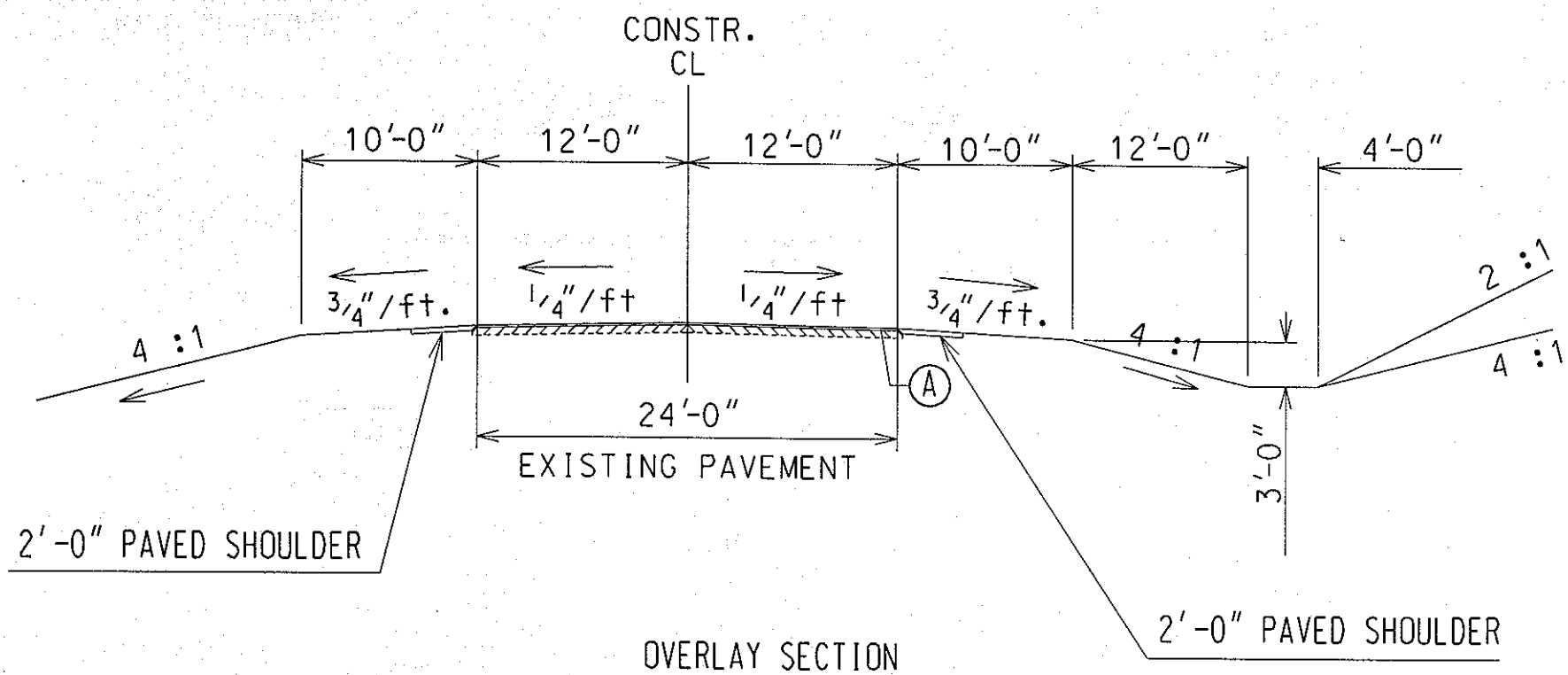
(A) 165 LB/SY ASPH. CONC. 12.5 mm SUPERPAVE

(B) 220 LB/SY ASPH. CONC. 19 mm SUPERPAVE

(C) 770 LB/SY ASPH. CONC. 25 mm SUPERPAVE

STP-BRF-030-2 (41) WILCOX
P.I. NO. 432070

OVERLAY TYPICAL SECTION



OVERLAY SECTION

(A) 165 LB/SY ASPH. CONC. 12.5 mm SUPERPAVE

Hutchinson, Zane
From: Funk, Dan
Sent: Friday, January 21, 2000 10:47 AM
To: Hutchinson, Zane
Subject: DESIGN TRAFFIC FOR STP-BRF-030-2(41 & 42) PI#432070 &432075

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE STP-BRF-030-2(41 & 42) Wilcox County
P.I.# 432070 & 432075

OFFICE Environment/ Location

DATE January 21, 2000

FROM David E. Studstill, P.E., State Environment/ Location

TO David Crim, District Engineer, Tifton
Attn. Zane Hutchinson

SUBJECT Design Traffic for SR 30/US 280 @ Alapatha River Trib., Wilcox County.

We are furnishing estimated traffic assignments for the above project as follows:

2026 ADT = 6000
2006 ADT = 3700
K = 9%
D = 55%
T = 8%
24 HR T = 10%
SU = 4%
COMB = 6%

If you have any questions concerning this information please contact Dan Funk at (404) 699- 3404.

PRELIMINARY COST ESTIMATE

PROJECT NO.	STP-BRF-030-2 (41)	COUNTY:	WILCOX
P. I. NO.	432070		
DATE:	APRIL 04, 2000	ESTIMATED LETTING DATE:	03-07
PREPARED BY:	ZANE G. HUTCHINSON, DISTRICT DESIGN ENGINEER		

( )	PROGRAM PROCESS	(X)	CONCEPT DEVELOPMENT	( )	DURING PROJECT DEVELOPMENT

PROJECT COST

A. RIGHT OF WAY		
1. PROPERTY (Land & Easement)	$ 2000.00	
2. DISPLACEMENTS (RES:0, BUS: 0, M.H.: 0)	$ 0.00	
3. OTHER COSTS (ADM./COST INFLATION)	$ 0.00	
	SUBTOTAL: A	**$ 2000.00**
B. REIMBURSABLE UTILITIES		
1. RAILROAD	$ 0.00	
2. TRANSMISSION LINES	$ 0.00	
3. SERVICES	$ 0.00	
	SUBTOTAL: B	**$ 0.00**
C. CONSTRUCTION		
1: MAJOR STRUCTURES		
a. BRIDGES	$ 539000.00	
b. OTHERS (APPROACH SLABS)	$ 26000.00	
	SUBTOTAL: C-1	**$ 565000.00**
2. GRADING & DRAINAGE		
a. EARTHWORK	$ 125000.00	
b. DRAINAGE:		
1) Cross Drain Pipe	$ N/A	
2) Curb & Gutter	$ N/A	
3) Longitudinal System (including catch basins)	$ N/A	
	SUBTOTAL: C-2	**$ 125000.00**
3. BASE & PAVING		
a. AGGREGATE BASE	$ N/A	
b. ASPHALT PAVING		
1) Surface	$ 20500.00	
2) Binder	$ 29800.00	
3) Base	$ 106800.00	
c: CONCRETE PAVING	$ N/A	
d. OTHERS	$ N/A	
	SUBTOTAL: C-3	**$ 157100.00**

4. LUMP SUM		
a. GRASSING	$ 1000.00	
b. CLEARING & GRUBBING	$ 6000.00	
c. LANDSCAPING	$ N/A	
d. EROSION CONTROL	$ 18000.00	
e. TRAFFIC CONTROL	$ 50000.00	
f. REMOVAL OF EXISTING BRIDGE	$ 28000.00	
g. CONSTRUCT, MAINT., & REMOVE DETOUR STRUCTURE	$ 40000.00	
	SUBTOTAL: C-4	**$ 143000.00**
5. MISCELLANEOUS		
a. LIGHTING	$ N/A	
b. SIGNING & MARKING	$ 1000.00	
c. GUARDRAIL	$ 8000.00	
d. SIDEWALK	$ N/A	
	SUBTOTAL: C-5	**$ 9000.00**
6. SPECIAL FEATURES	**$**	
	SUBTOTAL: C-6	**$ 0.00**

ESTIMATE SUMMARY

A. RIGHT OF WAY		$ 2000.00		
B. REIMBURSABLE UTILITIES		$ 0.00		
C. CONSTRUCTION				
1. MAJOR STRUCTURES		$ 565000.00		
2. GRADING & DRAINAGE		$ 125000.00		
3. BASE & PAVING		$ 157000.00		
4. LUMP ITEMS		$ 143000.00		
5. MISCELLANEOUS		$ 9000.00		
6. SPECIAL FEATURES		$ 0.00		
SUBTOTAL CONSTRUCTION COST				$ 999000.00
E & C (10%)				$ 99900.00
INFLATION (5% PER YEAR)	NUMBER OF YEARS	3		$ 164835.00
TOTAL CONSTRUCTION COST				$ 1263735.00
GRAND TOTAL PROJECT COST				$ 1265735.00

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-BRF-030-2 (41) Wilcox County
P.I. No. 432070

OFFICE Maintenance

DATE April 3, 2000

BG

FROM Buddy Gratton, P.E., State Maintenance Engineer

TO David Crim, District Engineer, Tifton
Attn: Zane Hutchinson

SUBJECT **Bridge Replacement/Rehabilitation**

The above project involves:

Structure ID 315-0016-0
Location ID 315-00030D-001.26E
SR 30 over Alapaha River Tributary

This bridge was built in 1942 and consists of a Steel H-Pile bent substructure, Steel beam superstructure, and a concrete deck. The original design load capacity is H-15. The sufficiency rating on the structure is 66.6 and the bridge is classified as Functionally Obsolete. In accordance with DOT policy 2405-1, we recommend that this bridge be replaced due to inadequate design load capacity. Due to this criteria no additional cost analysis or coring by the lab will be required. This bridge does not currently qualify for federal replacement BR funding. FHWA has agreed to fund replacement up to the cost of widening this bridge with the remainder being funded from some other source such as STP.

If you have any questions, please contact Brian Summers at 651-8522.

BG/BKS

cc Percy Middlebrooks

DATE: 13-DEC-99 BRIDGE INVENTORY DATA LIST... GEORGIA DEPARTMENT OF TRANSPORTATION COUNTY: WILCOX SUFF. RATING: 66.6

------- SECTION 1 - Location & Geography -------

Screen 1 ==========

* Structure I.D. No.: 315-0016-0
200 Bridge Information: 06

* 6A Feature Int.: ALAPAHA RIVER TRIB.
* 6B Critical Bridge: 0
* 7A Route Number Carried:SR00030
* 7B Facility Carried:US 280
* 9 Location: .8 MI E OF SEVILLE
2 DOT District: 4
207 Year Photo: 97

* 91 Inspection Frequency: 24 Date: 05/99
92A Fract Crit Insp Freq: 0 00 Date: 02/01
92B Underwater Insp Freq: 0 00 Date: 02/01
92C Other Spc. Insp Freq: 0 00 Date: 02/01

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1
Type.....: 2
Designator.: 1
Number.....: 00280
Direction..: 0

* 16 Latitude.: 31-57.5
* 17 Longitude: 083-35.2

98 Border Bridge: 000 %Shared: 00
99 ID. Number...: 000000000000000

*100 Defense Highway.....: 0
*101 Parallel Structure..: N
*102 Direction of Traffic: 2
264 Road Inventory Mile Post: 001.21

*208 Inspection Area: 11 Initials: JWH

*Location I.D. No: 315-00030D-00126E
*XReferen I.D. No: 000-000000-000000

------- SECTION 1 - CONTINUED -------

*104 Highway System.....: 1
* 26 Functional Classification: 02
*204 Federal Route Type: F No:030-2
*110 Truck Route.....: 1
206 School Bus Route.....: 1
217 Benchmark Elevation....:0000.00
218 Datum.....: 0

Screen 2 ==========

* 19 Bypass Length.....: 05
* 20 Toll.....: 3
* 21 Maintenance.....: 01
* 22 Owner.....: 01
31 Design Load.....: 2
37 Historical Significance: 5
205 Congressional District.: 08
* 27 Year Constructed.....: 1942
106 Year Reconstructed.....: 0000
33 Bridge Median.....: 0
34 Skew.....: 00
35 Structure Flared.....: 0
38 Navigation Control.....: 0
213 Special Steel Design...: 0
267 Type of Paint.....: 2
* 42 Type Service On: 1
Under: 5
214 Movable Bridge...: 00

203 Type Bridge.....: E-N-M-O
259 Pile Encasement....: 2
* 43 Structure Type Main: 4 02
45 No. Spans Main.....: 006
44 Structure Type Appr: 000
46 No. Spans Appr.....: 0000
226 Bridge Curve Horz..: 1 Vert: 1
111 Pier Protection....: 0
107 Deck Structure Type: 1

108 Wearing Surface Type: 1
Membrane: 0
Protection: 0
*248 County Continuity No: 00

SECTION 2 - Signs & Attachments

Screen 3 ==========

225 Expansion Joint Type: 02
242 Deck Drains.....: 1

243 Parapet Location: 0
Height: 00.0
Width: 00.0

238 Curb.....: 1.2 1
239 Handrail.....: 1 1
*240 Median Barrier Rail: 0

241 Bridge Median Height: 0.0
Width: 00.0

*230 Guardrail Loc Dir Rear: 3
Fwrd: 3
Oppo Dir Rear: 0
Fwrd: 0

244 Approach Slab.: 3
224 Retaining Wall: 0

233 Posted Speed Limit: 45
236 Warning Sign.....: 1
234 Delineator.....: 1
235 Hazard Boards.....: 1

237 Utilities Gas.....: 00
Water....: 00
Electric.: 00
Telephone: 22
Sewer....: 00

247 Lighting Street....: 0
Navigation: 0
Aerial....: 0

--------- SECTION 3 - Programming Data ---------

Screen 4 ==========

201 Project No.....:F-511-H
202 Plans Available.: 0
249 Proposed Proj No:STP-BRS-030-2 (41)
250 Approval Status.: 0000
251 P.I. No.....: 432070
252 Contract Date...: 02/01/03
260 Ranking No.....: 00000
75 Type Work.....: 34 1
94 Bridge Imp. Cost.: $000193
95 Roadway Imp. Cost: $000236
96 Total Imp. Cost..: $000526
76 Imp. Length.....: 001482
97 Imp. Year.....: 90
114 Future ADT.....: 004650 Year: 18

---------- SECTION 4 - Hydraulic Data ----------

Screen 5 ==========

215 Waterway Data
Highwater Elev....: 0000.0 Year: 00
Flood Elev.....: 0000.0 Freq: 000
Avg Streambed Elev: 0000.0
Drainage Area.....: 00000
Area of Opening...: 000000
113 Scour Critical....: 6
216 Water Depth.....: 02.5 Br. Height: 09.0
222 Slope Proteciton..: 4
221 Spur Dikes Rear..: 0 Fwrd: 0
219 Fender System.....: 0
220 Dolphin.....: 0
223 Culvert Cover.....: 000
Type.....: 0
No Barrels: 0
Width.....: 00.0
Height....: 00.0
Length....: 000
Apron.....: 0

*265 U/W Insp. Area: 0 Diver...: ZZZ

*Location I.D. No: 315-00030D-00126E
*XReferen I.D. No: 000-000000-000000

Screen 6 ==== SECTION 5 - Measurments

* 29 ADT.....: 003100 Year: 98
109 % Trucks.....: 16
* 28 Lanes On.....: 02 Under: 00
210 No. Tracks On: 00 Under: 00
254 FC Classification...: 0
255 FC Rank Factor.....: 0003
* 48 Max. Span Length....: 0027
* 49 Structure Length....: 000162
51 Br. Rdwy. Width.....: 023.7
52 Deck Width.....: 027.7
* 47 Tot. Horz. Cl.....: 23.7
50 Curb/Sdewlk Width...: 01.0/01.0
32 Approach Rdwy Width.: 028
*229 Shlder Width
Rear Lt: 02.0 Type: 2 Rt: 02.0
Fwrd Lt: 02.0 Type: 2 Rt: 02.0
Pvment Width
Rear: 24.0 Type: 2
Fwrd: 24.0 Type: 2
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail..: 2
Transition...: 2
App. G. Rail.: 2
App. Rail End: 2

Screen 7 ==========

53 Minimun Cl. Over.: 99 99"
54 Under: N 00 00"
*228 Min. Vert. Cl
Act. Odm. Dir..: 99 99"
Oppo. Dir.....: 99 99"
Posted Odm. Dir: 00 00"
Oppo. Dir.....: 00 00"
55 Lateral Undercl. Rt: N 99.9
56 Lateral Undercl. Lt: 00.0
* 10 Max Min Vert Cl.: 99 99" Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed...: 000
245 Deck Thickness Main..: 07.5
Deck Thick Approach..: 00.0
246 Overlay Thickness....: 00.0
211 Tons Structural Steel: 0020
212 Year Last Painted....: 9700

------ SECTION 6 - Ratings ------

Screen 8 ==========

66 Inventory Type: 2 Rating:24
64 Operating Type: 2 Rating:40
231 Calculated Loads
H-Modified.: 20 0
HS-Modified: 25 0
Type 3.....: 28 0
Type 3S2...: 40 0
Timber.....: 35 0
Piggyback..: 40 0
261 H Inventory Rating: 15
262 H Operating Rating: 24

67 Structural Evaluation...: 5
58 Deck Condition.....: 6
59 Superstructure Condition: 6
*227 Collision Damage.....: 0
60A Substructure Condition..: 7
60B Scour Condition.....: 8
60C Underwater Condition....: N
71 Waterway Adequacy.....: 8
61 Channel Proteciton Cond.: 7
68 Deck Geometry.....: 2
69 UnderClr. Horz/Vert.....: N
72 Appr. Alignment.....: 6
62 Culvert.....: N

---- SECTION 7 - Posting Data ---

Screen 9 ==========

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
*103 Temporary Structure....: 0

232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3.....: 00
Type 3S2...: 00
Timber.....: 00
Piggyback..: 00

253 Notification Date: 02/01/01
258 Fed Notify Date: 02/01/01 0

STP-BRF-030-2(41) & (42) WILCOX COUNTY
P.I. No. 432070 & 432075
Concept Meeting Minutes
March 21, 2000

The meeting was called to order at 10:00 a.m. on March 21, 2000. Mr. Joe Sheffield, District Preconstruction Engineer, presided over the meeting. A sign-in sheet was passed around and will be made part of the minutes. No representation was present from Construction and Maintenance. Mr. Sheffield described the two projects to the members of the Committee.

Mr. Don Gaskins, District Planning Engineer, gave the scheduling data for the two projects. Ten months environmental, ten months preliminary plans, ten months 404, twelve months final plans, and twelve months for right of way. The project is programmed for 2002 R/W and 2003 construction.

Mr. Randall Carr, District Environmentalist, stated that both projects require a Nationwide 404 permit and will be cleared under a CE. He stated that there are no UST's or hazardous sites on these projects.

Mr. Emory Giddens, representing the Utilities Department, stated that Alltel is on both projects. On Unit (41), Alltel is attached to the bridge, but would not be allowed to attach to proposed bridge. Georgia Power is located on Unit (42). Also on Unit (42), Alltel has fiber optic cable on the north side.

Danny Gay, Traffic Operations, requested that on Unit (41) to look at using existing bridge for detour and realign the proposed bridge on new location.

The Committee recommended adding two ft paved shoulder to the typical section.

The Committee approved concept and meeting was closed.

SIGN IN SHEET

PROJECT NO.: STP-BRF-030-2 (41) & (42)
P. I. NO.: 432070 & 432075
COUNTY: Wilcox
DATE: March 21, 2000
TIME:

NAME	AGENCY	PHONE NO.
JOE W. SHEFFIELD	GA. DOT	912-386-3300
JEFF BRIDGES	GA. DOT	386-3293
Emory L. Giddens	Ga. D.O.T.	386-3288
Randall K. Carr	Ga. D.O.T.	386-3046
Donnie Murphy	GA. D.O.T.	386-3288
Danny Gay	Traffic Ops - GADOT	386-3435
KENT GAINES	ALLTEL	912 423 8100
DON GASKINS	GA DOT	912-386-3045

County	: WILCOX	Type Median:	NONE
Route	: 3000, SR	Add.Lane lf:	NONE
Milepoint	: 0121	Add.Lane rt:	NONE
Number Lanes	: 02	Road system:	RURAL PRINCIPAL ARTERIAL
Travel Width	: 024	Int RD Name:	
Truck %	: 10.6	Type Signal:	NONE
97 ADT,98 ADT	: 002900, 002900	Inv Year :	99
Access Control	: UNCONTROLLED	Yr.Improved:	99
Paces rating	: 67 (1997	Type Improv:	RESURFACE
Truck Route	: NO	Surface Typ:	ASPHALT CONCRETE
Accident Data	: CALL T&S	Pop Density:	RURAL OUTSIDE INCORP AREA
Right of Way	: EST-100	Operation :	TWO WAY (NON RESTRICTED)
Speed Limit	: 55	Description:	BRS00160 ALAPAHA TB
Left shd width	: 02	Lft Shd Typ:	BIT.SURFACE (LOW)
Rgt shd width	: 02	Rgt Shd Ttp:	BIT.SURFACE (LOW)
District	: TIFTON	Contact :	Joe Burns (912) 386-3465

advance, =go back, =back to menu: A

NOTICE OF LOCATION AND DESIGN APPROVAL

STP-BRF-030-2 (41)
WILCOX COUNTY
P.I. NO. 432070

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 the above project.

Project STP-BRF-030-2 (41) will replace the bridge at the Alapaha River Tributary on SR 30/US 280 approximately 0.80 miles East of Seville. This project lies entirely in Wilcox County, 12th Land Disrict, GMD 1103 and Land Lot 131.

Date of Location Approval: _____

The proposed project will construct a new 44-ft. wide by 180-ft. long bridge over Alapaha River Tributary on SR 30/US 280 approximately 1.30 miles East of Seville. Traffic will be maintained during construction with an offsite detour furnished by the City of Moultrie. The total length of the project is 0.26 miles.

Drawings of the proposed project are on file and are available for public inspection at the Georgia Department of Transportation, 710 West Second Street, Tifton, Georgia 31794.

Any written request in reference to this Notice should include the Project and P.I. Numbers as noted at the top of this notice and may be referred to:

Zane G. Hutchinson
District Design Engineer
Georgia Department of Transportation
710 West Second Street
Tifton, Georgia 31794
(912) 386-3300

ACCIDENT HISTORY
STP-BRF-030-2 (41) WILCOX
P. I. No. 432070

There were no accidents in the proposed limits of the project in the past three years on record.

NOTE:

There are no Flood Insurance Rate Maps available for this area in Wilcox County.

PROJECT CONCEPT REPORT

STP-BRF-030-2 (41)
P. I. NO. 432070
WILCOX COUNTY

Federal Route No.: 280

State Route No.: 30

Date of Report: April 07, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with tha which is included in the TIP and/or STIP.

Date	State Transportation Planning Administration
4/12/00 Date	State Transportation Programming Engineer
Date	State Environmental/Location Engineer
4-11-00 Date	District Engineer/Tifton
Date	Project Review Engineer
Date	State Traffic Operation Engineer
Date	State Bridge & Structural Engineer

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: STP-BRF-030-2(41)/Wilcox County
P.I. No. 432070

Office: Traffic Operations
Atlanta, Georgia
Date: April 13, 2000

RECEIVED
APR 19 2000

From: M.G. Waters, III, P.E., State Traffic Operations Engineer

To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review

We have reviewed the concept report on the above project for the replacement of a functionally obsolete bridge on US 280/SR 30 over the Alapaha River Tributary, 0.80 miles east of Seville.

Constructed in 1942, it is 28 feet in width, has an H-15 design load capacity and a sufficiency rating 66.6. The posted speed limit is 55mph. US 280/SR 30 is a two lane roadway with graded shoulders and open ditches.

This project will provide a structure 44 feet in width. The approaching roadway will be a two lane rural facility with 10 foot graded shoulders, of which 2 feet will be paved. The design speed will be 55mph. Traffic is to be maintained, via an on site detour, during construction.

We believe this concept will improve safety and traffic operations along this section of roadway.

We therefore find this report satisfactory for approval.

MGW:TWS

Attachment (signature page)

c: David Studstill
David Crim, District Engineer, Tifton
Attention: Zane Hutchinson
David Mulling, w/ attachment
Marta Rosen
Chuck Hasty, TMC
General Files

PROJECT CONCEPT REPORT

STP-BRF-030-2 (41)
P. I. NO. 432070
WILCOX COUNTY

Federal Route No.: 280 **Date of Report:** April 07, 2000

State Route No.: 30

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

Date	State Transportation Planing Administration
Date	State Transportation Programming Engineer
Date	State Environmental/Location Engineer
4-11-00 Date	District Engineer/Tifton
Date	Project Review Engineer
4-18-2000 Date	State Traffic Operation Engineer
Date	State Bridge & Structural Engineer

PROJECT CONCEPT REPORT

STP-BRF-030-2 (41)
P. I. NO. 432070
WILCOX COUNTY

Federal Route No.: 280

State Route No.: 30

Date of Report: April 07, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

Date	State Transportation Planning Administration
4/12/00 Date	State Transportation Programming Engineer
Date	State Environmental/Location Engineer
4-11-00 Date	District Engineer/Tifton
Date	Project Review Engineer
Date	State Traffic Operation Engineer
Date	State Bridge & Structural Engineer

PROJECT CONCEPT REPORT

STP-BRF-030-2 (41)
P. I. NO. 432070
WILCOX COUNTY

Federal Route No.: 280

State Route No.: 30

Date of Report: April 07, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

Date	State Transportation Planing Administration
Date	State Transportation Programming Engineer
Date	State Environmental/Location Engineer
4-11-00 Date	District Engineer/Tifton
Date	Project Review Engineer
Date	State Traffic Operation Engineer
5-13-00 Date	Paul V. Liles Jr State Bridge & Structural Engineer

PROJECT CONCEPT REPORT

STP-BRF-030-2 (42)
P. I. NO. 432075
WILCOX COUNTY

Federal Route No.: 280

State Route No.: 30

Date of Report: April 07, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

Date	**State Transportation Planing Administration**
Date	**State Transportation Programming Engineer**
Date	**State Environmental/Location Engineer**
4-11-00 **Date**	**District Engineer/Tifton**
5/4/00 **Date**	**Project Review Engineer**
Date	**State Traffic Operation Engineer**
Date	**State Bridge & Structural Engineer**

PROJECT CONCEPT REPORT

PROJECT NUMBER: STP-BRF-030-2 (42)

PROJECT LOCATION AND DESCRIPTION

STP-BRF-030-2 (41) is a bridge replacement located on SR 30/US 280 in Wilcox County @ the Alapaha River Tributary approximately 1.30 miles East of Seville. The project will begin at approximately MP 1.75 and goes East for approximately 0.26 miles to MP 2.01. The existing roadway is a rural two-lane with open ditches on 100 ft. of Right of Way . The proposed Typical Section is a two-lane rural roadway with open ditches on 100 ft. of Right of Way. An on-site detour will be required on the South side, an additional 50 ft. of temporary easement will be required to build the detour.

The project lies entirely in ~~Colquitt~~ Wilcox County, 12th Land District, GMD 1103, and Land Lot 131.

TRAFFIC

CURRENT		PROJECTED	
YEAR	**AADT**	**YEAR**	**AADT**
2006	**3700**	**2026**	**6000**

PDP CLASSIFICATION	FUNCTIONAL CLASSIFICATION
MINOR	RURAL PRINCIPAL ARTERIAL

FOS ( ) **EXEMPT (X)** **N/A ( )**

NEED AND PURPOSE

SEE ATTACHMENT

EXISTING ROADWAY

TYPICAL SECTION:	2-LANE RURAL WITH GRADED SHOULDER AND OPEN DITCHES	RIGHT-OF-WAY WIDTH 100
POSTED SPEED	**DEGREE OF CURVE**	**MAX GRADE**
55 MPH	0	0.5 %

MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH	PRIORITY RATING	SUFF. RATING
Bridge @ Alapaha River Tributary	216	28	N/A	63.5

HAZARD INDEX:

PROPOSED ROADWAY

LOCATION ON OLD ALIGNMENT

TYPICAL SECTION:	2-LANE RURAL WITH 24 FT. ASPHALT PAVING WITH 10 FT SHOULDER/2 FT. PAVED WITH OPEN DITCHES			
DESIGN SPEED	**DEGREE OF CURVE**		**MAX. GRADE**	
55 MPH	**ALLOWABLE**	6	**ALLOWABLE**	5 %
	PROPOSED	0	**PROPOSED**	0.5 %

PROPOSED MAJOR STRUCTURES

FEATURES INTERSECTED/TYPE	LENGTH	WIDTH	
Bridge @ Alapaha River Tributary	240 ft.	44 ft.	

PROPOSED RIGHT-OF-WAY

RIGHT-OF-WAY WIDTH	PARCELS IMPACTED	DISPLACEMENTS					
100 ft.	4	**RES.:**	0	**BUS.:**	0	**M.H.:**	0

TYPE OF ACCESS CONTROL: By permit -DOT.

COORDINATION AND SCHEDULING

CONCEPT TEAM MEETING DATE:	March 21, 2000			
CONFORM TO TIP/STIP?	**YES**	X	**NO**	
MEET LOGICAL TERMINI REQUIREMENTS?	**YES**	X	**NO**	
P.A.R. MEETING:	N/A			
PERMITS REQUIRED:	Nationwide 404			
LEVEL OF PUBLIC INVOLVEMENT:	NONE			

SCHEDULING CONSIDERATIONS:

TIME TO COMPLETE ENVIRONMENTAL:	10	MONTHS
TIME TO COMPLETE PRELIMINARY RD/RW PLANS:	10	MONTHS
TIME TO COMPLETE 404 PERMIT:	10	MONTHS
TIME TO COMPLETE FINAL CONSTRUCTION PLANS:	12	MONTHS
TIME TO BUY RIGHTS-OF-WAY:	12	MONTHS

OTHER PROJECTS IN AREA:	STP-BRF-030-2 (41) WILCOX
LOCAL GOVERNMENT COMMITMENTS:	LGPA

MISCELLANEOUS

TRAFFIC CONTROL DURING CONSTRUCTION:	Traffic shall be maintained during construction by utilizing an on-site detour.
LEVEL OF ENVIRONMENTAL ANALYSIS:	C.E.
UNDERGROUND STORAGE TANKS:	NONE
HAZARDOUS WASTE SITES:	NONE

DESIGN VARIATIONS REQUEST

	YES	NO	UNDETERMINED
SUBSTANDARD HORIZONTAL ALIGNMENT	( )	(X)	( )
SUBSTANDARD ROADWAY WIDTH	( )	(X)	( )
SUBSTANDARD SHOULDER WIDTH	( )	(X)	( )
SUBSTANDARD VERTICAL GRADES	( )	(X)	( )
SUBSTANDARD CROSS SLOPES	( )	(X)	( )
SUBSTANDARD STOPPING SIGHT DISTANCE	( )	(X)	( )
SUBSTANDARD SUPERELEVATION RATES	( )	(X)	( )
SUBSTANDARD HORIZONTAL CLEARANCE	( )	(X)	( )
SUBSTANDARD SPEED DESIGN	( )	(X)	( )
SUBSTANDARD VERTICAL CLEARANCE	( )	(X)	( )
SUBSTANDARD BRIDGE WIDTH	( )	(X)	( )
SUBSTANDARD BRIDGE STRUCTURAL CAPACITY	( )	(X)	( )

ALTERNATIVES CONSIDERED

1. NO BUILD

ESTIMATED COST

CONSTRUCTION:	1,187,000.00	**RIGHT-OF-WAY:**	2,000.00
E & C (10%):	118,700.00	**ACQUIRED BY:**	D.O.T. FORCES
INFLATION:	195,855.00	**UTILITIES:**	0.00
(3 yrs at 5% per yr.): 15 %		**ADJUSTED BY:**	UTILITY OWNERS
TOTAL CONSTRUCTION COST:	**1,501,555.00**		

COMMENTS

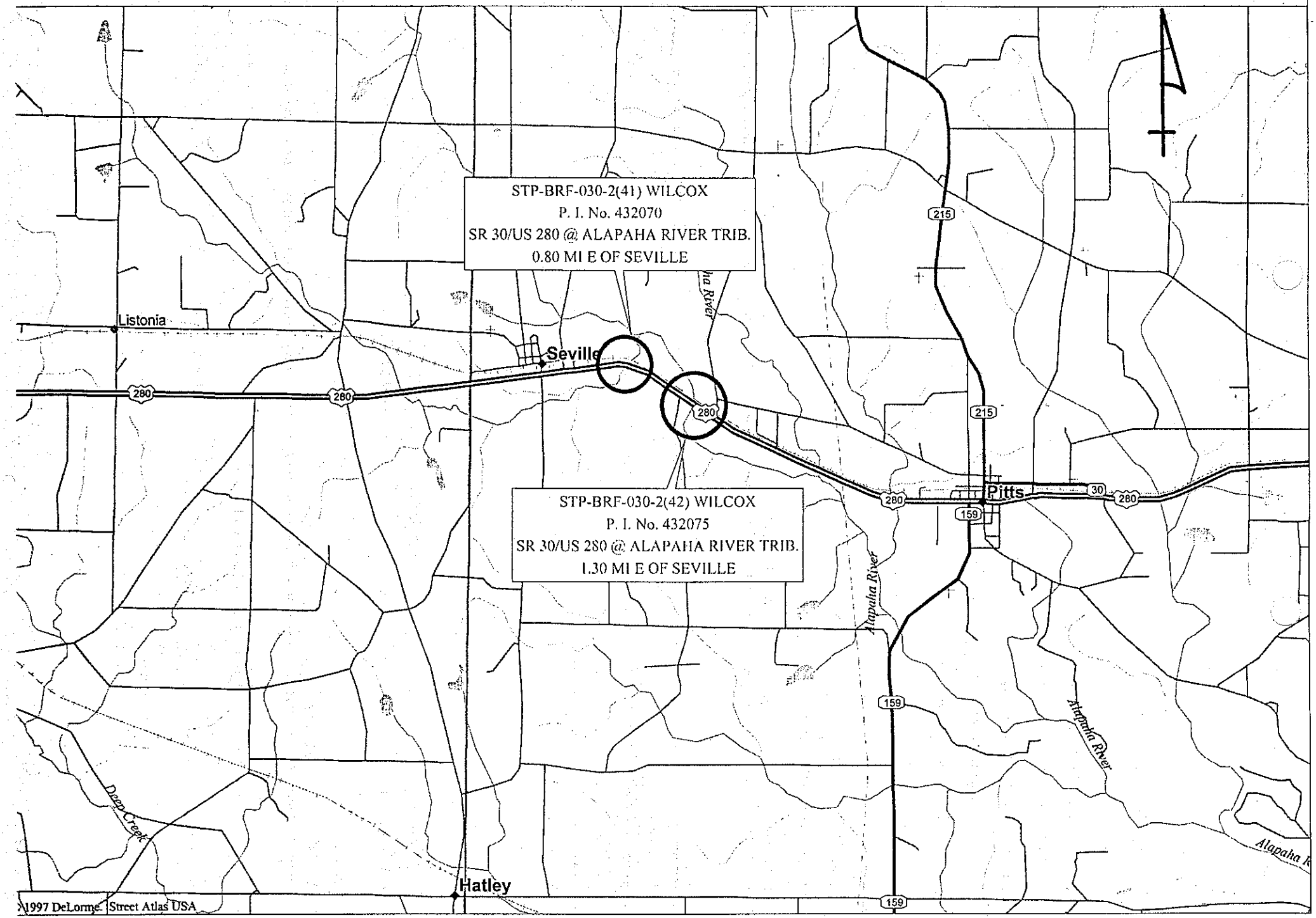
The Concept Committee recommends that the project be built.

ATTACHMENTS: Cost Estimate, Typical Section, Team Meeting Minutes, Location Sketch. Traffic Count, Accident History, Bridge Rehab./Replacement Study.

PREPARED BY: Zane S. Hutchinson

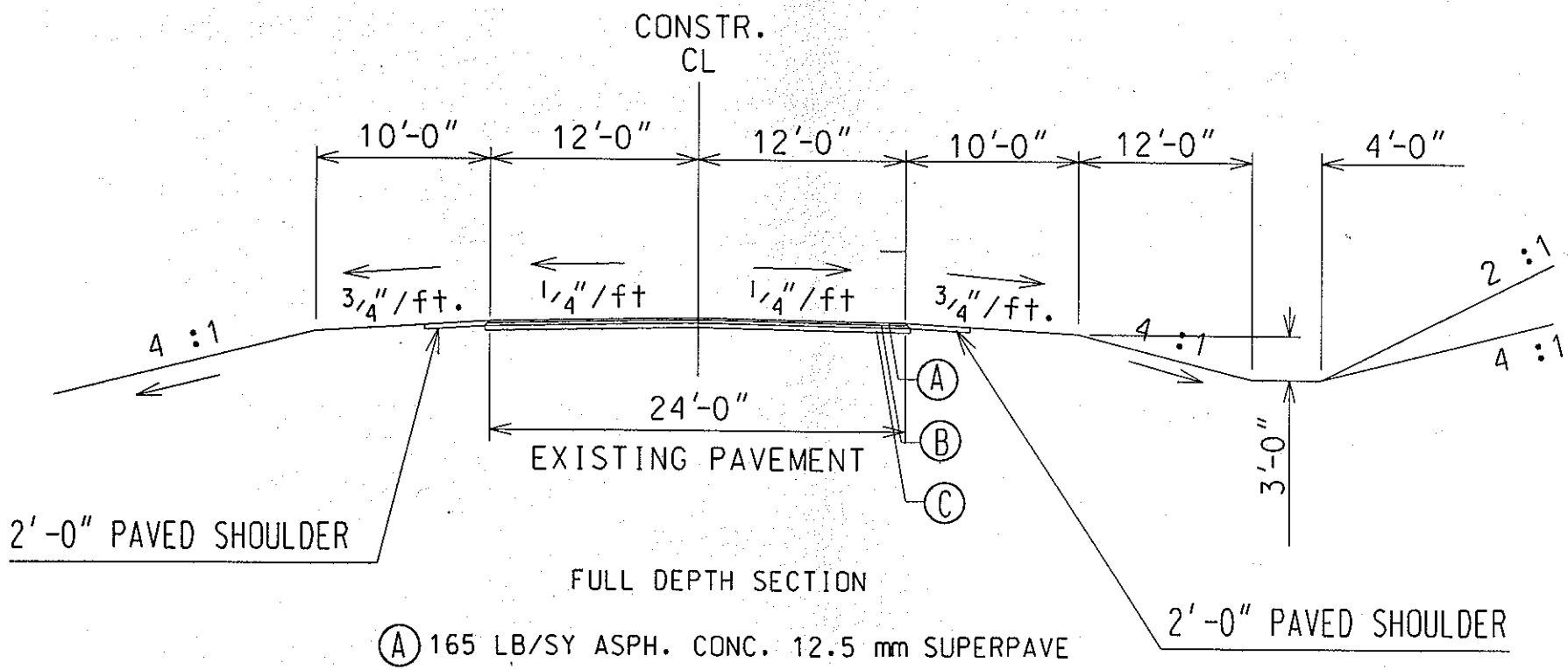
Zane Hutchinson, District Design Engineer

LOCATION SKETCH



STP--BRF030-2 (42) WILCOX
P.I. NO. 432075

FULL DEPTH TYPICAL SECTION



FULL DEPTH SECTION

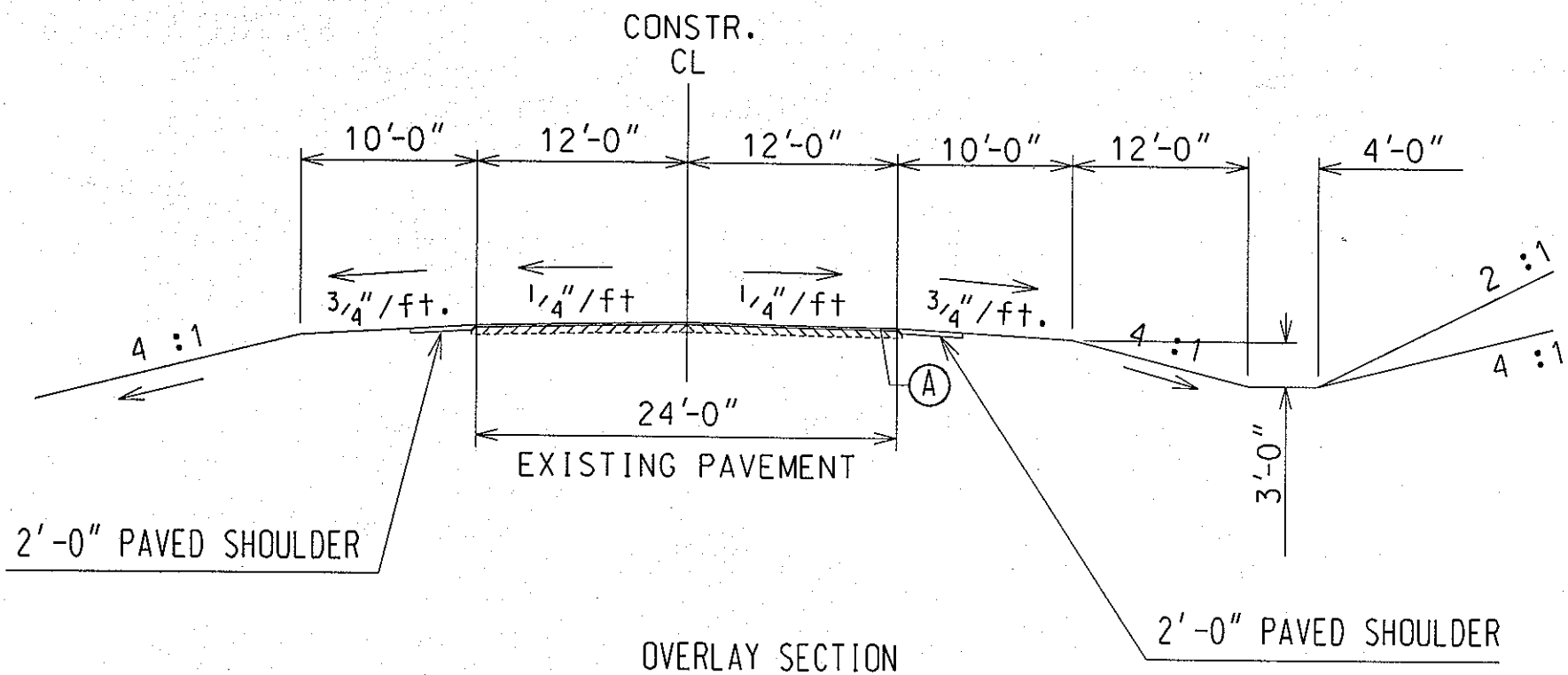
(A) 165 LB/SY ASPH. CONC. 12.5 mm SUPERPAVE

(B) 220 LB/SY ASPH. CONC. 19 mm SUPERPAVE

(C) 770 LB/SY ASPH. CONC. 25 mm SUPERPAVE

STP-BRF-030-2 (42) WILCOX
P.I. NO. 432075

OVERLAY TYPICAL SECTION



OVERLAY SECTION

(A) 165 LB/SY ASPH. CONC. 12.5 mm SUPERPAVE

Need and Purpose
WILCOX COUNTY
STP-BRF-030-1 (42)
PI # 432075

Project STP-BRF-030-1 (42) will replace the 28-foot wide bridge located on SR-30/ US-280 over the Alapaha River Tributary with a 44-foot wide bridge. The bridge has a sufficiency rating of 63.5 and a design load of H-15. The 1998 traffic volume is 3,100 vehicles. The volume is projected to increase to 4,700 vehicles by 2016. SR-30/US-280 is designated as a STAA truck route.

The desired width, according to AASHTO guidelines, for bridges on a rural two-lane road with design year traffic volumes greater than 4,000 ADT is 40 feet. Instead of widening, the Department's policy is to replace bridges located on the State Highway System that have a designed H-15 live load. This project is in accordance with AASHTO guidelines and the Department's policy on bridge replacements.

PRELIMINARY COST ESTIMATE

PROJECT NO.	STP-BRF-030-2 (42)	COUNTY:	WILCOX
P. I. NO.	432075		
DATE:	APRIL 04, 2000	ESTIMATED LETTING DATE:	03-07
PREPARED BY:	ZANE G. HUTCHINSON, DISTRICT DESIGN ENGINEER		

( )	PROGRAM PROCESS	(X)	CONCEPT DEVELOPMENT	( )	DURING PROJECT DEVELOPMENT

PROJECT COST

A. RIGHT OF WAY		
1. PROPERTY (Land & Easement)	$ 2000.00	
2. DISPLACEMENTS (RES:0, BUS: 0, M.H.: 0)	$ 0.00	
3. OTHER COSTS (ADM./COST INFLATION)	$ 0.00	
	SUBTOTAL: A	**$ 2000.00**
B. REIMBURSABLE UTILITIES		
1. RAILROAD	$ 0.00	
2. TRANSMISSION LINES	$ 0.00	
3. SERVICES	$ 0.00	
	SUBTOTAL: B	**$ 0.00**
C. CONSTRUCTION		
1: MAJOR STRUCTURES		
a. BRIDGES	$ 718000.00	
b. OTHERS (APPROACH SLABS)	$ 26000.00	
	SUBTOTAL: C-1	**$ 744000.00**
2. GRADING & DRAINAGE		
a. EARTHWORK	$ 125000.00	
b. DRAINAGE:		
1) Cross Drain Pipe	$ N/A	
2) Curb & Gutter	$ N/A	
3) Longitudinal System (including catch basins)	$ N/A	
	SUBTOTAL: C-2	**$ 125000.00**
3. BASE & PAVING		
a. AGGREGATE BASE	$ N/A	
b. ASPHALT PAVING		
1) Surface	$ 20500.00	
2) Binder	$ 29800.00	
3) Base	$ 106800.00	
c: CONCRETE PAVING	$ N/A	
d. OTHERS	$ N/A	
	SUBTOTAL: C-3	**$ 157100.00**

4. LUMP SUM		
a. GRASSING	$ 1000.00	
b. CLEARING & GRUBBING	$ 6000.00	
c. LANDSCAPING	$ N/A	
d. EROSION CONTROL	$ 18000.00	
e. TRAFFIC CONTROL	$ 50000.00	
f. REMOVAL OF EXISTING BRIDGE	$ 37000.00	
g. CONSTRUCT, MAINT., & REMOVE DETOUR STRUCTURE	$ 40000.00	
	SUBTOTAL: C-4	**$ 152000.00**
5. MISCELLANEOUS		
a. LIGHTING	$ N/A	
b. SIGNING & MARKING	$ 1000.00	
c. GUARDRAIL	$ 8000.00	
d. SIDEWALK	$ N/A	
	SUBTOTAL: C-5	**$ 9000.00**
6. SPECIAL FEATURES	$	
	SUBTOTAL: C-6	**$ 0.00**

ESTIMATE SUMMARY

A. RIGHT OF WAY		$ 2000.00		
B. REIMBURSABLE UTILITIES		$ 0.00		
C. CONSTRUCTION				
1. MAJOR STRUCTURES		$ 744000.00		
2. GRADING & DRAINAGE		$ 125000.00		
3. BASE & PAVING		$ 157000.00		
4. LUMP ITEMS		$ 152000.00		
5. MISCELLANEOUS		$ 9000.00		
6. SPECIAL FEATURES		$ 0.00		
SUBTOTAL CONSTRUCTION COST				$ 1187000.00
E & C (10%)				$ 118700.00
INFLATION (5% PER YEAR)	NUMBER OF YEARS	3		$ 195855.00
TOTAL CONSTRUCTION COST				$ 1501555.00
GRAND TOTAL PROJECT COST				$ 1503555.00

Hutchinson, Zane
From: Funk, Dan
Sent: Friday, January 21, 2000 10:47 AM
To: Hutchinson, Zane
Subject: DESIGN TRAFFIC FOR STP-BRF-030-2(41 & 42) PI#432070 &432075

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE STP-BRF-030-2(41 & 42) Wilcox County
P.I.# 432070 & 432075

OFFICE Environment/ Location

DATE January 21, 2000

FROM David E. Studstill, P.E., State Environment/ Location

TO David Crim, District Engineer, Tifton
Attn. Zane Hutchinson

SUBJECT Design Traffic for SR 30/US 280 @ Alapatha River Trib., Wilcox County.

We are furnishing estimated traffic assignments for the above project as follows:

2026 ADT = 6000
2006 ADT = 3700
K = 9%
D = 55%
T = 8%
24 HR T = 10%
SU = 4%
COMB = 6%

If you have any questions concerning this information please contact Dan Funk at (404) 699- 3404.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-BRF-030-2 (42) Wilcox County
P.I. No. 432075

OFFICE Maintenance

DATE April 3, 2000

FROM Buddy Gratton, P.E., State Maintenance Engineer

TO David Crim, District Engineer, Tifton
Attn: Zane Hutchinson

SUBJECT **Bridge Replacement/Rehabilitation**

The above project involves:

Structure ID 315-0017-0
Location ID 315-00030D-001.91E
SR 30 over Alapaha River Tributary

This bridge was built in 1942 and consists of a steel H-Pile bent substructure, steel beam superstructure, and a concrete deck. The original design load capacity is H-15. The sufficiency rating on the structure is 63.5 and the bridge is classified as Functionally Obsolete. In accordance with DOT policy 2405-1, we recommend that this bridge be replaced due to inadequate design load capacity. Due to this criteria no additional cost analysis or coring by the lab will be required. This bridge does not currently qualify for federal replacement BR funding. FHWA has agreed to fund replacement up to the cost of widening this bridge with the remainder being funded from some other source such as STP.

If you have any questions, please contact Brian Summers at 651-8522.

BG/BKS

cc Percy Middlebrooks

------- SECTION 1 - Location & Geography -------

Screen 1

* Structure I.D. No.: 315-0017-0
200 Bridge Information: 06

* 6A Feature Int.: ALAPAHA RIVER TRIB.
* 6B Critical Bridge: 0
* 7A Route Number Carried:SR00030
* 7B Facility Carried:US 280
* 9 Location: 1.3 MI E OF SEVILLE
2 DOT District: 4
207 Year Photo: 97

* 91 Inspection Frequency: 24 Date: 05/99
92A Fract Crit Insp Freq: 0 00 Date: 02/01
92B Underwater Insp Freq: 1 60 Date: 10/97
92C Other Spc. Insp Freq: 0 00 Date: 02/01

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1
Type.....: 2
Designator.: 1
Number.....: 00280
Direction..: 0

* 16 Latitude.: 31-57.2
* 17 Longitude: 083-34.7

98 Border Bridge: 000 %Shared: 00
99 ID. Number...: 000000000000000

*100 Defense Highway.....: 0
*101 Parallel Structure..: N
*102 Direction of Traffic: 2
264 Road Inventory Mile Post: 001.83

*208 Inspection Area: 11 Initials: JWH

*Location I.D. No: 315-00030D-00191E
*XReferen I.D. No: 000-000000-000000

------- SECTION 1 - CONTINUED -------

*104 Highway System.....: 1
* 26 Functional Classification: 02
*204 Federal Route Type: F No:030-2
*110 Truck Route.....: 1
206 School Bus Route.....: 1
217 Benchmark Elevation....:0000.00
218 Datum.....: 0

Screen 2

* 19 Bypass Length.....: 05
* 20 Toll.....: 3
* 21 Maintenance.....: 01
* 22 Owner.....: 01
31 Design Load.....: 2
37 Historical Significance: 5
205 Congressional District.: 08
* 27 Year Constructed.....: 1942
106 Year Reconstructed.....: 0000
33 Bridge Median.....: 0
34 Skew.....: 00
35 Structure Flared.....: 0
38 Navigation Control.....: 0
213 Special Steel Design...: 0
267 Type of Paint.....: 2
* 42 Type Service On: 1
Under: 5
214 Movable Bridge...: 00

203 Type Bridge.....: E-N-M-O
259 Pile Encasement....: 2
* 43 Structure Type Main: 4 02
45 No. Spans Main.....: 008
44 Structure Type Appr: 000
46 No. Spans Appr.....: 0000
226 Bridge Curve Horz..: 0 Vert: 0
111 Pier Protection....: 0
107 Deck Structure Type: 1

108 Wearing Surface Type: 6
Membrane: 0
Protection: 0
*248 County Continuity No: 00

SECTION 2 - Signs & Attachments

Screen 3

225 Expansion Joint Type: 02
242 Deck Drains.....: 1

243 Parapet Location: 0
Height: 00.0
Width: 00.0

238 Curb.....: 0.8 1
239 Handrail.....: 1 1
*240 Median Barrier Rail: 0

241 Bridge Median Height: 0.0
Width: 00.0

*230 Guardrail Loc Dir Rear: 3
Fwrd: 3
Oppo Dir Rear: 0
Fwrd: 0

244 Approach Slab.: 0
224 Retaining Wall: 0

233 Posted Speed Limit: 55
236 Warning Sign.....: 1
234 Delineator.....: 1
235 Hazard Boards.....: 1

237 Utilities Gas.....: 00
Water....: 00
Electric.: 00
Telephone: 00
Sewer....: 00

247 Lighting Street....: 0
Navigation: 0
Aerial....: 0

--------- SECTION 3 - Programming Data ---------

Screen 4 ==========

201 Project No.....:F-511-H
202 Plans Available.: 0
249 Proposed Proj No:STP-BRS-030-2 (42)
250 Approval Status.: 0000
251 P.I. No.....: 432075
252 Contract Date...: 02/01/03
260 Ranking No.....: 00000
75 Type Work.....: 34 1
94 Bridge Imp. Cost.: $000258
95 Roadway Imp. Cost: $000052
96 Total Imp. Cost..: $000412
76 Imp. Length.....: 000427
97 Imp. Year.....: 90
114 Future ADT.....: 004650 Year: 18

---------- SECTION 4 - Hydraulic Data ----------

Screen 5 ==========

215 Waterway Data
Highwater Elev....: 0000.0 Year: 00
Flood Elev.....: 0000.0 Freq: 000
Avg Streambed Elev: 0000.0
Drainage Area.....: 00000
Area of Opening...: 000000
113 Scour Critical....: 6
216 Water Depth.....: 04.0 Br. Height: 13.0
222 Slope Proteciton..: 4
221 Spur Dikes Rear..: 0 Fwrd: 0
219 Fender System.....: 0
220 Dolphin.....: 0
223 Culvert Cover.....: 000
Type.....: 0
No Barrels: 0
Width.....: 00.0
Height....: 00.0
Length....: 000
Apron.....: 0

*265 U/W Insp. Area: 2 Diver...: TSP

*Location I.D. No: 315-00030D-00191E
*XReferen I.D. No: 000-000000-000000

Screen 6 ==== SECTION 5 - Measurments

* 29 ADT.....: 003100 Year: 98
109 % Trucks.....: 19
* 28 Lanes On.....: 02 Under: 00
210 No. Tracks On: 00 Under: 00
254 FC Classification...: 0
255 FC Rank Factor.....: 0003
* 48 Max. Span Length....: 0027
* 49 Structure Length....: 000216
51 Br. Rdwy. Width.....: 023.8
52 Deck Width.....: 027.7
* 47 Tot. Horz. Cl.....: 23.8
50 Curb/Sdewlk Width...: 01.0/01.0
32 Approach Rdwy Width.: 028
*229 Shlder Width
Rear Lt: 02.0 Type: 2 Rt: 02.0
Fwrd Lt: 02.0 Type: 2 Rt: 02.0
Pvment Width
Rear: 24.0 Type: 2
Fwrd: 24.0 Type: 2
Intersection Rear: 1 Fwrd: 0
36 Safety Features Br. Rail..: 2
Transition...: 2
App. G. Rail.: 2
App. Rail End: 2

Screen 7 ==========

53 Minimun Cl. Over.: 99 99"
54 Under: N 00 00"
*228 Min. Vert. Cl
Act. Odm. Dir..: 99 99"
Oppo. Dir.....: 99 99"
Posted Odm. Dir: 00 00"
Oppo. Dir.....: 00 00"
55 Lateral Undercl. Rt: N 99.9
56 Lateral Undercl. Lt: 00.0
* 10 Max Min Vert Cl.: 99 99" Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed...: 000
245 Deck Thickness Main..: 07.5
Deck Thick Approach..: 00.0
246 Overlay Thickness....: 03.0
211 Tons Structural Steel: 0027
212 Year Last Painted....: 9600

------ SECTION 6 - Ratings ------

Screen 8 ==========

66 Inventory Type: 2 Rating:22
64 Operating Type: 2 Rating:37
231 Calculated Loads
H-Modified.: 20 0
HS-Modified: 25 0
Type 3.....: 28 0
Type 3S2...: 40 0
Timber.....: 36 0
Piggyback..: 40 0
261 H Inventory Rating: 15
262 H Operating Rating: 25

67 Structural Evaluation...: 5
58 Deck Condition.....: 7
59 Superstructure Condition: 6
*227 Collision Damage.....: 0
60A Substructure Condition..: 6
60B Scour Condition.....: 6
60C Underwater Condition....: 6
71 Waterway Adequacy.....: 6
61 Channel Proteciton Cond.: 7
68 Deck Geometry.....: 2
69 UnderClr. Horz/Vert.....: N
72 Appr. Alignment.....: 8
62 Culvert.....: N

---- SECTION 7 - Posting Data ---

Screen 9 ==========

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
*103 Temporary Structure....: 0

232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3.....: 00
Type 3S2...: 00
Timber.....: 00
Piggyback..: 00

253 Notification Date: 02/01/01
258 Fed Notify Date: 02/01/01 0

ACCIDENT HISTORY
STP-BRF-030-2 (42) WILCOX
P. I. No. 432075

There was one accident in the proposed limits of the project in the past three years on record. Summary of the accident is as follows:

1. At ML 1.84 there was one (1) accident in the year of 1998. The car, heading West, ran off the roadway and overturned. The accident occurred during daylight hours and in dry conditions. There were no fatalities with no visible injuries and one complaint of injuries. See attachment.

USERDISK018:[DTTS5]WIL98.LIS;1

DEPARTMENT OF TRANSPORTATION
OFFICE OF TRAFFIC AND SAFETY
ACCIDENTS LISTING

27-Jan-2000
Page 1

CASE	DATE	TIME	COU	TP	ROUTE	MILE	INT RD TYPE	INT RD	RAMP SECT	F	I-V	I-C	TYPE ACCIDENT	LOC	LI	SUR	D1	D2	VM1	VM2
31970479	07/20/98	13:55	315	SR	30	1.84			0	0	00	01	OVERTURNED	OFF ROADWAY	1	DRY	W	0	05	00

REPORT TOTALS..... ACCIDENTS: 1 FATALITIES: 0 INJ-VISIBLE: 0 INJ-COMP: 1

PAGE TOTALS..... ACCIDENTS: 1 FATALITIES: 0 INJ-VISIBLE: 0 INJ-COMP: 1

STP-BRF-030-2(41) & (42) WILCOX COUNTY
P.I. No. 432070 & 432075
Concept Meeting Minutes
March 21, 2000

The meeting was called to order at 10:00 a.m. on March 21, 2000. Mr. Joe Sheffield, District Preconstruction Engineer, presided over the meeting. A sign-in sheet was passed around and will be made part of the minutes. No representation was present from Construction and Maintenance. Mr. Sheffield described the two projects to the members of the Committee.

Mr. Don Gaskins, District Planning Engineer, gave the scheduling data for the two projects. Ten months environmental, ten months preliminary plans, ten months 404, twelve months final plans, and twelve months for right of way. The project is programmed for 2002 R/W and 2003 construction.

Mr. Randall Carr, District Environmentalist, stated that both projects require a Nationwide 404 permit and will be cleared under a CE. He stated that there are no UST's or hazardous sites on these projects.

Mr. Emory Giddens, representing the Utilities Department, stated that Alltel is on both projects. On Unit (41), Alltel is attached to the bridge, but would not be allowed to attach to proposed bridge. Georgia Power is located on Unit (42). Also on Unit (42), Alltel has fiber optic cable on the north side.

Danny Gay, Traffic Operations, requested that on Unit (41) to look at using existing bridge for detour and realign the proposed bridge on new location.

The Committee recommended adding two ft paved shoulder to the typical section.

The Committee approved concept and meeting was closed.

SIGN IN SHEET

PROJECT NO.: STP-BRF-030-2 (41) & (42)
P. I. NO.: 432070 & 432075
COUNTY: Wilcox
DATE: March 21, 2000
TIME:

NAME	AGENCY	PHONE NO.
JOE W. SHEFFIELD	GA. DOT	912-386-3300
JEFF BRIDGES	GA. DOT	386-3293
Emory L. Giddens	Ga. D.O.T.	386-3288
Randall K. Carr	Ga. D.O.T.	386-3046
Donnie Murphy	GA. D.O.T.	386-3288
Danny Gay	TRAFFIC OPS - GADOT	386-3435
KENT GAINES	ALLTEL	912 423 8100
DON GASKINS	GA DOT	912-386-3045

County	: WILCOX	Type Median:	NONE
Route	: 3000, SR	Add.Lane lf:	NONE
Milepoint	: 0183	Add.Lane rt:	NONE
Number Lanes	: 02	Road system:	RURAL PRINCIPAL ARTERIAL
Travel Width	: 024	Int RD Name:	
Truck %	: 10.6	Type Signal:	NONE
97 ADT,98 ADT	: 002900, 002900	Inv Year :	99
Access Control	: UNCONTROLLED	Yr.Improved:	99
Paces rating	: 67 (1997	Type Improv:	RESURFACE
Truck Route	: NO	Surface Typ:	ASPHALT CONCRETE
Accident Data	: CALL T&S	Pop Density:	RURAL OUTSIDE INCORP AREA
Right of Way	: EST-100	Operation :	TWO WAY (NON RESTRICTED)
Speed Limit	: 55	Description:	BRS00170 ALAPAHA TB
Left shd width	: 02	Lft Shd Typ:	BIT.SURFACE (LOW)
Rgt shd width	: 02	Rgt Shd Ttp:	BIT.SURFACE (LOW)
District	: TIFTON	Contact :	Joe Burns (912) 386-3465

advance, =go back, =back to menu: A

NOTICE OF LOCATION AND DESIGN APPROVAL

STP-BRF-030-2 (42)
WILCOX COUNTY
P.I. NO. 432075

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 the above project.

Project STP-BRF-030-2 (42) will replace the bridge at the Alapaha River Tributary on SR 30/US 280 approximately 1.30 miles East of Seville. This project lies entirely in Wilcox County, 12th Land Disrict, GMD 1103 and Land Lot 131.

Date of Location Approval: _____

The proposed project will construct a new 44-ft. wide by 180-ft. long bridge over Alapaha River Tributary on SR 30/US 280 approximately 1.30 miles East of Seville. Traffic will be maintained during construction with an offsite detour furnished by the City of Moultrie. The total length of the project is 0.26 miles.

Drawings of the proposed project are on file and are available for public inspection at the Georgia Department of Transportation, 710 West Second Street, Tifton, Georgia 31794.

Any written request in reference to this Notice should include the Project and P.I. Numbers as noted at the top of this notice and may be referred to:

Zane G. Hutchinson
District Design Engineer
Georgia Department of Transportation
710 West Second Street
Tifton, Georgia 31794
(912) 386-3300

NOTE:

There are no Flood Insurance Rate Maps available for this area in Wilcox County.

PROJECT CONCEPT REPORT

STP-BRF-030-2 (42)
P. I. NO. 432075
WILCOX COUNTY

Federal Route No.: 280

State Route No.: 30

Date of Report: April 07, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

Date	State Transportation Planing Administration
4/17/00 Date	State Transportation Programming Engineer
Date	State Environmental/Location Engineer
4-11-00 Date	District Engineer/Tifton
Date	Project Review Engineer
Date	State Traffic Operation Engineer
Date	State Bridge & Structural Engineer

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: STP-BRF-030-2(42)/Wilcox County
P.I. No. 432075

Office: Traffic Operations
Atlanta, Georgia
Date: April 13, 2000

RECEIVED
APR 19 2000

From: M.G. Waters, III, P.E., State Traffic Operations Engineer

To: Wayne Hutto, Assistant Director of Preconstruction

Subject: Project Concept Report Review

We have reviewed the concept report on the above project for the replacement of a functionally obsolete bridge on US 280/SR 30 over the Alapaha River Tributary, approximately 1.30 miles east of Seville.

Constructed in 1942, it is 28 feet in width, has an H-15 design load capacity and a sufficiency rating 63.5. The posted speed limit is 55mph. US 280/SR 30 is a two lane roadway with graded shoulders and open ditches.

This project will provide a structure 44 feet in width. The approaching roadway will be a two lane rural facility with 10 foot graded shoulders, of which 2 feet will be paved. The design speed will be 55mph. Traffic is to be maintained, via an on site detour, during construction.

We believe this concept will improve safety and traffic operations along this section of roadway.

We therefore find this report satisfactory for approval.

MGW:TWS

Attachment (signature page)

c: David Studstill
David Crim, District Engineer, Tifton
Attention: Zane Hutchinson
David Mulling, w/ attachment
Marta Rosen
Chuck Hasty, TMC
General Files

PROJECT CONCEPT REPORT

STP-BRF-030-2 (42)
P. I. NO. 432075
WILCOX COUNTY

Federal Route No.: 280 **Date of Report:** April 07, 2000

State Route No.: 30

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

Date	**State Transportation Planing Administration**
Date	**State Transportation Programming Engineer**
Date	**State Environmental/Location Engineer**
4-11-00 **Date**	**District Engineer/Tifton**
Date	**Project Review Engineer**
4-18-2000 **Date**	**State Traffic Operation Engineer**
Date	**State Bridge & Structural Engineer**

PROJECT CONCEPT REPORT

STP-BRF-030-2 (42)
P. I. NO. 432075
WILCOX COUNTY

Federal Route No.: 280

State Route No.: 30

Date of Report: April 07, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

Date	State Transportation Planing Administration
4/17/00 Date	State Transportation Programming Engineer
Date	State Environmental/Location Engineer
4-11-00 Date	District Engineer/Tifton
Date	Project Review Engineer
Date	State Traffic Operation Engineer
Date	State Bridge & Structural Engineer

PROJECT CONCEPT REPORT

STP-BRF-030-2 (42)
P. I. NO. 432075
WILCOX COUNTY

Federal Route No.: 280

State Route No.: 30

Date of Report: April 07, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

4-17-00	
Date	**State Transportation Planing Administrator**
Date	**State Transportation Programming Engineer**
Date	**State Environmental/Location Engineer**
4-11-00	
Date	**District Engineer/Tifton**
Date	**Project Review Engineer**
Date	**State Traffic Operation Engineer**
Date	**State Bridge & Structural Engineer**

PROJECT CONCEPT REPORT

STP-BRF-030-2 (42)
P. I. NO. 432075
WILCOX COUNTY

Federal Route No.: 280

State Route No.: 30

Date of Report: April 07, 2000

RECOMMENDATION FOR APPROVAL

This project is contained in the Transportation Improvement Program (TIP) and/or in the State Transportation Improvement Program (STIP). The concept as presented herein and submitted for approval is consistent with that which is included in the TIP and/or STIP.

Date	State Transportation Planing Administration
Date	State Transportation Programming Engineer
Date	State Environmental/Location Engineer
4-11-00 Date	District Engineer/Tifton
Date	Project Review Engineer
Date	State Traffic Operation Engineer
4-13-00 Date	State Bridge & Structural Engineer