

ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE PFH-0000-00(848) Union County **OFFICE** Preconstruction
P.I. No. 0000848
DATE July 30, 2001
FROM *CWH*
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
Harvey Keeper
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Paul Liles
Jimmy Chambers
Larry Dent
FHWA
BOARD MEMBER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE PFH-0000-00(848) Union County **OFFICE** Preconstruction
P.I. No. 0000848 **DATE** May 10, 2001

C. Wayne Hutto

FROM C. Wayne Hutto, P.E., Assistant Director of Preconstruction

TO Frank L. Danchetz, P.E., Chief Engineer

SUBJECT PROJECT CONCEPT REPORT

This project is the replacement of a functionally obsolete and structurally deficient bridge on FS 236/CR 228 over Cooper Creek, 10.3 miles southwest of Blairsville, Georgia. The existing bridge (39' x 13.9') was built in 1958 and consists of masonry endbents and a timber intermediate bent, a concrete slab superstructure/deck with a sufficiency rating of 56. In accordance with DOT MOG 2405-1, the existing bridge meets the established criteria for replacement. The existing approaches consist of a two lane rural 18' gravel roadway. FS 236/CR 228 is a major connector route to heavy recreation destinations and access to U.S. Forest Service property. Traffic is projected to be 250 VPD and 350 VPD in the years 2005 and 2025 respectively. The proposed design speed is 20 MPH.

The construction proposes to construct a new 60' x 28' concrete bridge over Cooper Creek at the existing bridge site. The approaches will consist of two, 12' asphalt lanes with 6' rural shoulders. The existing roadway will be closed and traffic detoured during construction utilizing existing roads.

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 this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG DATE</u>	<u>LET DATE</u>
Construction (includes E&C and inflation)	\$279,000	\$500,000	2003	02-07
Right-of-Way & Utilities*	Local	Local		

*LGPA sent requesting Union County be responsible for right-of-way, utilities and detours.

Frank L. Danchetz

Page 2

PFH-0000-00(848) Union

May 10, 2001

This project is in the STIP. I recommend this project concept be approved.

CWH:JDQ/cj

Attachment

CONCUR



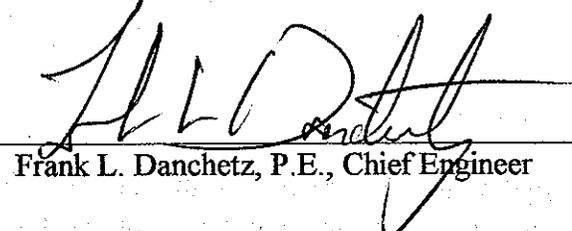
Thomas L. Turner, P.E., Director of Preconstruction

APPROVE



For Larry R. Dreihaup, Division Administrator, FHWA

APPROVE



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

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENTAL CORRESPONDENCE

FILE: PFH-0000-00(848) Union
P.I. Number 0000848

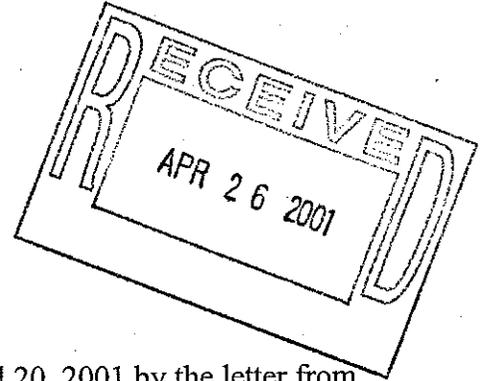
OFFICE: Atlanta, Georgia

DATE: April 25, 2001

FROM: *DTM*
David Mulling, Project Review Engineer

TO: Wayne Hutto, Assistant Director of Pre-construction

SUBJECT: **CONCEPT REPORT**



We have reviewed the concept report submitted April 20, 2001 by the letter from Todd Long dated April 13, 2001, and have the following comment:

1. The estimated costs for reimbursable utilities and right of way/easements were not provided.
2. A bridge culvert can be hydraulically equivalent to the proposed 60 feet long bridge, and should be an alternate considered in the hydraulic study. If there are reasons that eliminate a bridge culvert as an alternate, they should be presented in the concept report. *(SEE PAGE 6)*
3. The concept report shows the PDP Classification as "Exempt". This should be "Full Oversight"

The costs for the project are:

Construction	\$242,000
Inflation	\$ 12,000
E&C	\$ 25,000
Reimbursable Utilities	\$?
Right of Way	\$?

DTM

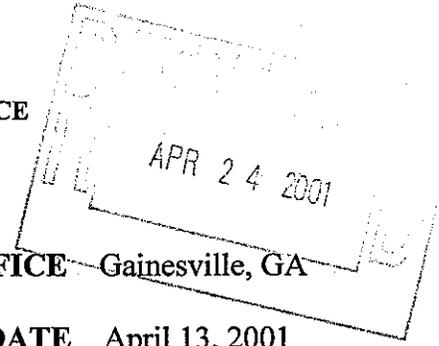
c: Todd Long – District 1 Preconstruction

SCORING RESULTS AS PER MOG 2440-2

Project Number: PFH-0000-00(848)		County: UNION		PI No.: 0000848		
Report Date: 4/13/01		Concept By: DOT Office: DISTRICT 1				
<input checked="" type="checkbox"/> CONCEPT		DOT Project Manager: TODD LONG				
Consultant: N/A						
Project Type: Choose One From Each Column		<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	<input type="checkbox"/> Urban <input checked="" type="checkbox"/> Rural	<input type="checkbox"/> ATMS <input checked="" type="checkbox"/> Bridge <input type="checkbox"/> Building <input type="checkbox"/> Interchange Reconstruction <input type="checkbox"/> Intersection Improvement <input type="checkbox"/> Interstate <input type="checkbox"/> New Location <input type="checkbox"/> Widening & Reconstruction <input type="checkbox"/> Miscellaneous		
FOCUS AREAS	SCORE	RESULTS				
Presentation	90%	Reimbursable utilities and right of way/easement costs not shown in report PDP Classification should be "Full Oversight"				
Judgement	90%	Bridge culvert as alternate until hydraulic study				
Environmental	100%					
Right of Way	100%					
Utility	100%					
Constructability	100%					
Schedule	100%					

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE



FILE PFH-0000-00(848), Union County
P.I. NO. 0000848
FS 236 over Cooper Creek

OFFICE Gainesville, GA

DATE April 13, 2001

FROM *TIL* Todd I. Long, P. E., Assistant District Engineer

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT Submittal of Project Concept Report

Attached for your review and further handling is the concept report for the above listed bridge replacement project. The bridge is located 10.3 miles southwest of Blairsville. The project proposes to construct a new bridge over Cooper Creek.

If additional information is required, please contact Tony R. Bradley at (770) 532-5580.

TIL:trb

Cc: David Mulling, w/attachment
Harvey Keepler, w/attachment
Marion Waters, w/attachment
Marta Rosen, w/attachment
Herman Griffin, w/attachment
Paul Liles, w/attachment

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

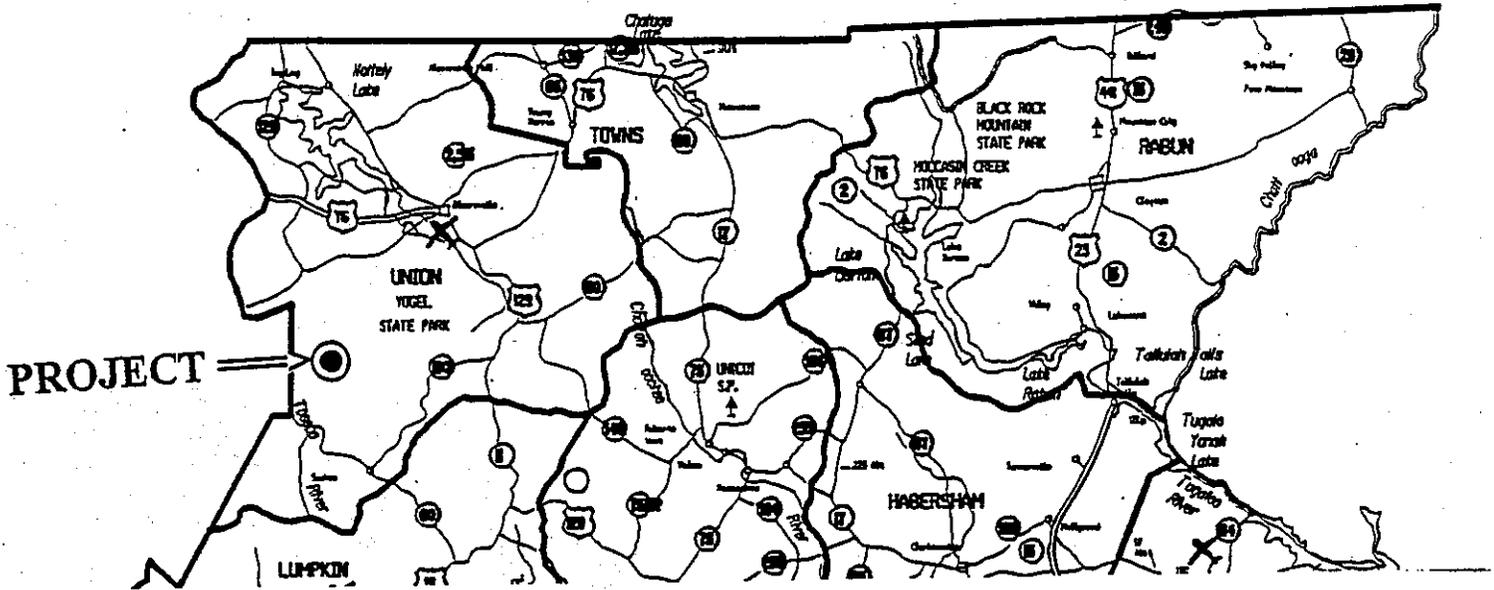
Project Number: PFH-0000-00(848)

County: UNION

P. I. Number: 0000848

Federal Route Number: FS 236/ CR 228

County Route Number: N/A



Recommendation for approval:

DATE 4/13/01

DATE 4/13/01

[Signature]
Project Manager
[Signature]
Office Head/District Engineer

The 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 _____
DATE _____
DATE _____
DATE _____
DATE _____
DATE _____

State Transportation Planning Administrator

State Transportation Programming Engineer

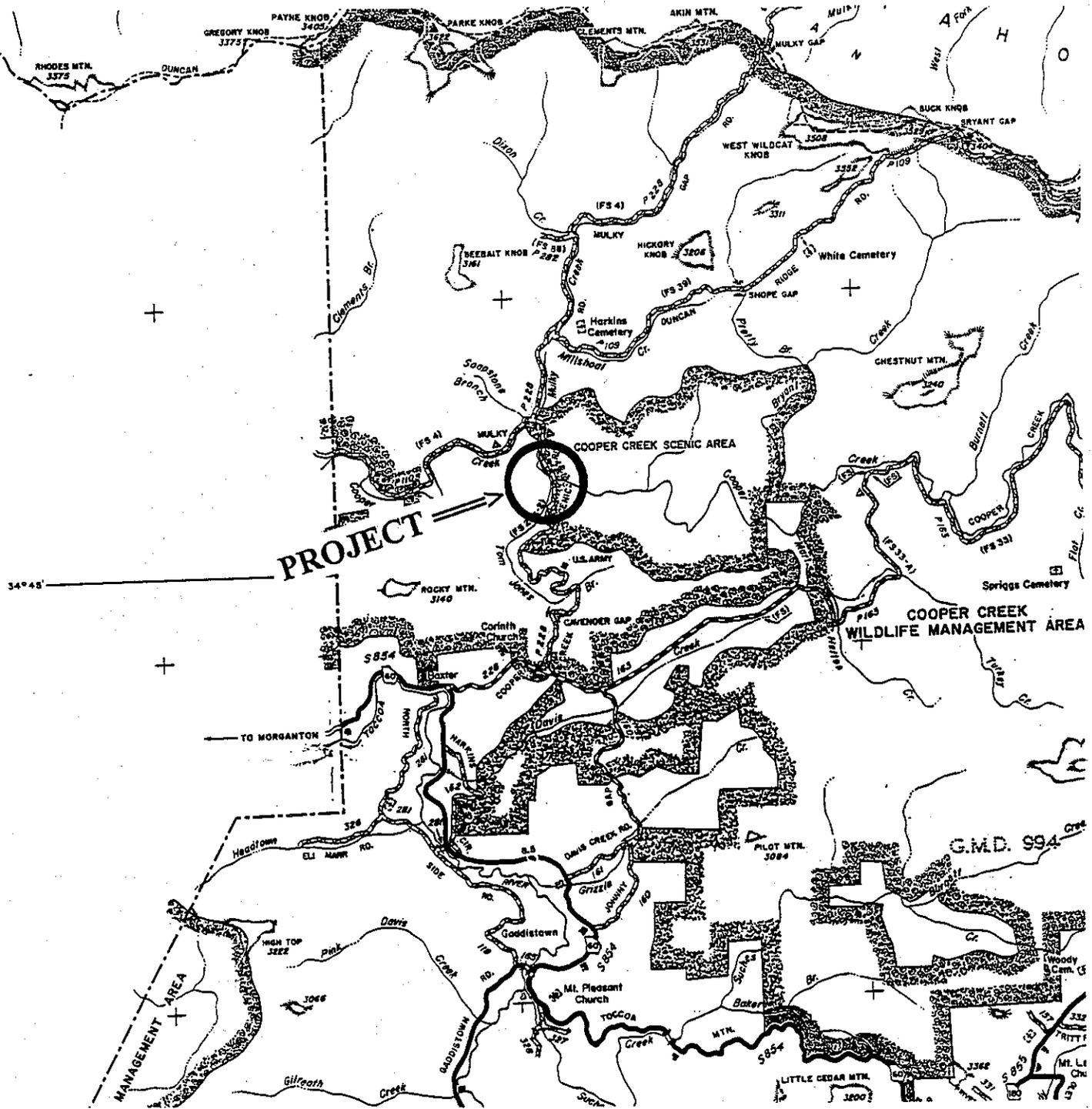
State Environmental/Location Engineer

State Traffic Operations Engineer

Project Review Engineer

State Bridge & Structural Engineer

Project Concept Report page 2
Project Number: PFH-0000-00(848)
P. I. Number: 0000848
County: Union



LOCATION MAP

Project No.: PFH-0000-00(848), Union County

Project Concept Report page 3
Project Number: PFH-0000-00(848)
P. I. Number: 0000848
County: Union

Need and Purpose: FS 236/CR228 is a major connector route to heavy recreation destinations and access to US Forest Service property. The existing bridge was built in 1958 and consists of masonry endbents and a timber intermediate bent, and a concrete slab superstructure/deck. In accordance with DOT policy 2405-1, the office of bridge design recommends that this bridge be replaced due to the existing substructure, which classifies this bridge as not suitable for widening. This bridge is currently classified as functionally obsolete.

Structure ID 291-5042-0/ Location ID 291-00228X-003.17N

Description of the proposed project: Project PFH-0000-00(848), Union County proposes to replace the existing bridge on FS 236/CR 228 over Cooper Creek. The bridge is located 10.3 miles southwest of Blairsville. The project proposes to construct a new bridge over Cooper Creek.

PROJECT LENGTH : 0.20 miles

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

PDP Classification:

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

Functional Classification: Local Roads

COUNTY Route Number(s): FS 236/CR 228
N/A

State Route Number(s):

Traffic (AADT):

Current Year: (2005) 250 Design Year: (2025) 350

Existing design features:

- Typical Section: Two lane rural 18' gravel roadway.
- Posted speed None mph
- Width of right of way: USFS Property (no right of way)
- Major Structure: Masonry endbents, timber intermediate bent and concrete slab deck.

SUFF. RATING: 56.7

LENGTH: 39 feet

WIDTH: 13.9 feet

FEATURE INTERSECTED: Cooper Creek

Proposed Design Features:

- Proposed typical section(s): Two 12' travel lanes with 6' shoulders. Typical Section attached.
- Proposed Design Speed Mainline 20mph
- Proposed Maximum grade Mainline 12%
- Proposed Maximum degree of curve 10 degree
- Right of way
 - Width:
 - Easements: Temporary (X), Permanent (), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 1 (USFS) Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other:
- Structures: The proposed bridge will be ^{28'-120'}30'-0" wide, consisting of two 12'-0" travel lanes and 3'-0" shoulders. The bridge is proposed to be 60' long.
- Traffic control during construction: Road to be closed.
- Design Exceptions to controlling criteria anticipated:

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

- Environmental concerns:
- UNDERGROUND STORAGE TANKS: None Known
- HAZARDOUS SITES: None Known

Project Concept Report page 5
Project Number: PFH-0000-00(848)
P. I. Number: 0000848
County: Union

- Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical exclusion (X),
 - Environmental Assessment/Finding of No Significant Impact (FONSI) (), or
 - Environmental Impact Statement (EIS) ().
- Utility involvements: *Alltel Telephone on bridge*

Project responsibilities:

- Design, GDOT District One, Gainesville
- Right of Way Acquisition, LGPA
- Relocation of Utilities, LGPA
- Letting to contract, GDOT District One, Gainesville
- Supervision of construction, GDOT District One, Gainesville
- Providing material pits, GDOT District One, Gainesville
- Providing detours. GDOT District One, Gainesville

Coordination

- CONCEPT TEAM MEETING DATE: April 11, 2001
- P. A. R. METTING: Not Needed
- FEMA, USCG, and/or TVA
- Local government comments: LGPA for all utility relocations and right of way
- Other projects in the area: BRZLB-2915(5) Union

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: 9 Months.
- Time to complete preliminary construction plans: 6 Months.
- Time to complete right of way plans: 2 Months.
- Time to complete the Section 404 Permit: 6 Months.
- Time to complete final construction plans: 6 Months.
- Time to complete to purchase right of way: 1 Months.

Project Concept Report page 6
Project Number: PFH-0000-00(848)
P. I. Number: 0000848
County: Union

Other alternates considered:

1. NO BUILD (Eliminated due to long term maintenance cost)
2. Construct new bridge on same alignment as existing bridge and build detour bridge. (Eliminated due to cost of detour bridge and environmental concerns)
3. Close road, demolish existing bridge, and construct new bridge on existing alignment. (Selected due to low traffic volumes and the cost of a detour bridge.)
4. Construct a concrete bridge culvert. (Eliminated due to the large drainage area.)

Comments: None

Attachments:

1. Cost Estimates:
 - a. Construction including E&C,
 - b. Right of Way, and
 - c. Utilities.
2. Sketch location map,
3. Typical sections,
4. Traffic analysis,
5. Bridge inventory,
6. Minutes of Concept meeting,
7. LGPA
8. Location and Design Notice

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: PFH-0000-00(848)

COUNTY: Union

DATE: March 2001

ESTIMATED LETTING DATE: July-02

PREPARED BY: Tony R. Bradley

PROJECT LENGTH: 0.20 Miles

() PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT () DURING PROJECT DEV.

PROJECT COST		
A. RIGHT-OF-WAY:		LGPA
1. PROPERTY (LAND & EASEMENT)		\$ -
2. DISPLACEMENTS; RES: 0, BUS: 0, M.H.: 0		\$ -
3. OTHER COST (ADM./COST, INFLATION)		\$ -
SUBTOTAL: A		\$ -
B. REIMBURSABLE UTILITIES:		LGPA
1. RAILROAD		\$ -
2. TRANSMISSION LINES		\$ -
3. SERVICES		\$ -
SUBTOTAL: B		\$ -
C. CONSTRUCTION:		
1. MAJOR STRUCTURES		
a. BRIDGES		
Overpasses- Bridge @ Cooper Creek (30'X60') @ \$70/SF		\$ 126,000
Approach Slab - 200 SY @ \$90/SY		\$ 18,000
SUBTOTAL: C-1.a		\$ 144,000
b. OTHER		
Walls		\$ -
Box Culverts		\$ -
Bridge Culverts (0)		\$ -
SUBTOTAL: C-1.b		\$ -
SUBTOTAL: C-1		\$ 144,000
2. GRADING AND DRAINAGE:		
a. EARTHWORK		
Grading Complete		\$ 30,000
b. DRAINAGE		
1) Cross Drain Pipe		\$ -
2) Curb and Gutter		\$ -
3) Longitudinal System (incl. catch basins)		\$ -
SUBTOTAL: C-2.b		\$ -
SUBTOTAL: C-2		\$ 30,000

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: PFH-0000-00(848)

COUNTY: Union

DATE: March 2001

ESTIMATED LETTING DATE: July-02

PREPARED BY: Tony R. Bradley

PROJECT LENGTH: 0.20 Miles

() PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT () DURING PROJECT DEV.

PROJECT COST				
3. BASE AND PAVING:				
a. AGGREGATE BASE	850	-	Tons @ \$18.00	\$ 15,300
b. ASPHALT PAVING (Mainline):				
Drainage - Type D	-	-	Tons @ \$50.8	\$ -
Surface - SMA	-	-	Tons @ \$54.93	\$ -
Surface - Superpave	-	-	Tons @ \$42.56	\$ -
Binder - SMA	-	-	Tons @ \$56.9	\$ -
Binder - Superpave	-	-	Tons @ \$38.43	\$ -
Base - Superpave	-	-	Tons @ \$34.63	\$ -
Pavement Reinf. Fabric Strips	-	-		\$ -
SUBTOTAL: C-3.b				\$ -
c. CONCRETE PAVING	-	-		\$ -
d. OTHER (Leveling, Tack Coat, Milling)	-	-		\$ -
SUBTOTAL: C-3				\$ 15,300
4. LUMP ITEMS				
a. GRASSING				\$ 4,000
b. CLEARING AND GRUBBING				\$ 10,000
c. LANDSCAPING				\$ -
d. EROSION CONTROL				\$ 10,000
e. TRAFFIC CONTROL				\$ 5,000
SUBTOTAL: C-4				\$ 29,000
5. MISCELLANEOUS:				
a. LIGHTING				\$ -
b. SIGNING - MARKING				\$ 2,000
c. GUARDRAIL				
Single-Faced				\$ 15,000
Double-Faced				\$ -
Anchors				\$ 6,800
SUBTOTAL: C-5.c				\$ 23,800
d. SIDEWALK				\$ -
e. MEDIAN / SIDE BARRIER	-	-		\$ -
f. MOVABLE BARRIER SECTION				\$ -
g. ACCESS FENCE				\$ -
h. BRIDGE JACKING				\$ -
i. APPROACH SLABS				\$ -
j. REMOVAL				
Concrete Paving				\$ -
Bridges				\$ -
SUBTOTAL: C-5.j				\$ -
k. ATMS Conduit	-	-		\$ -
l. OTHER				\$ -

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: PFH-0000-00(848)

COUNTY: Union

DATE: March 2001

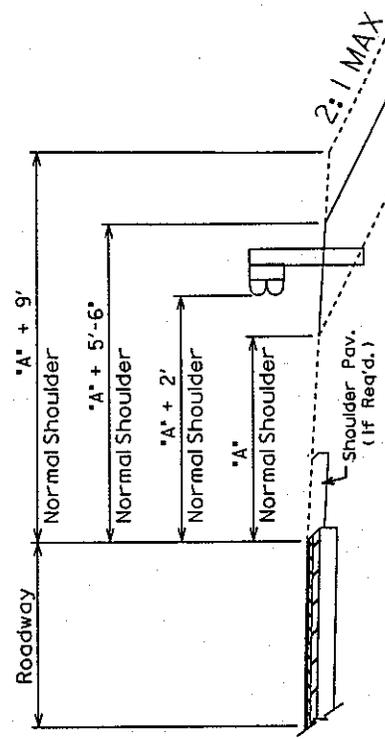
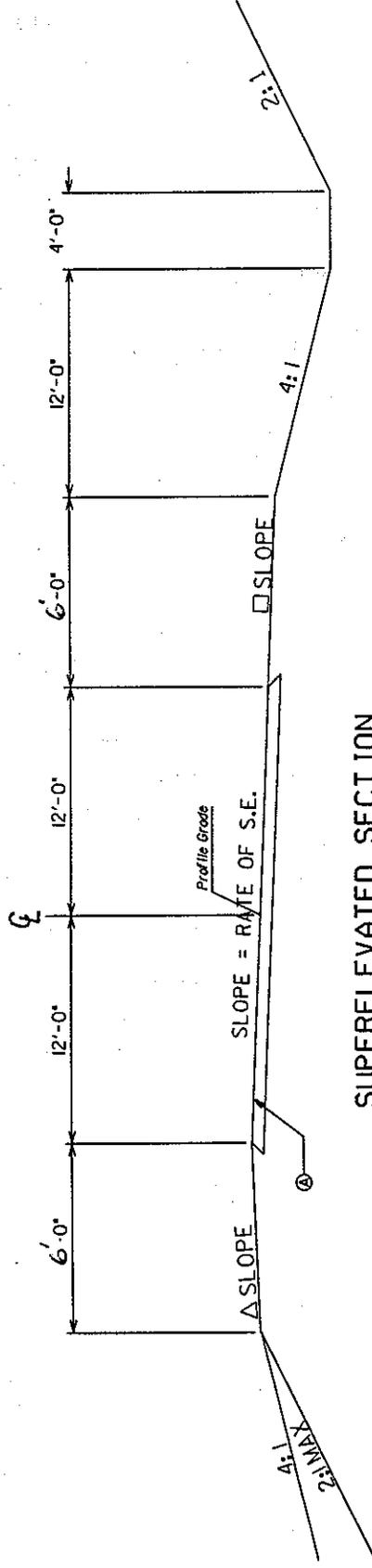
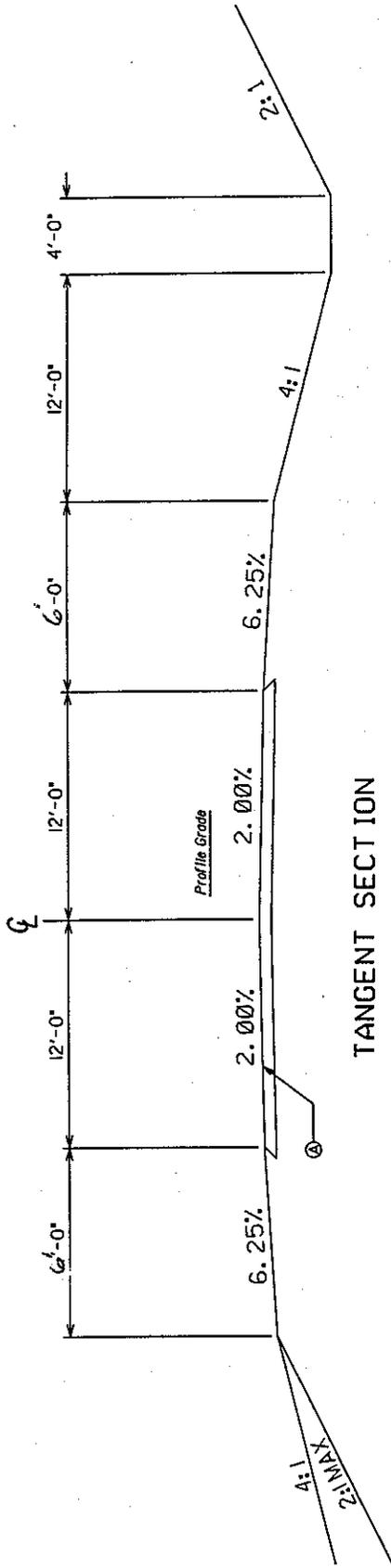
ESTIMATED LETTING DATE: July-02

PREPARED BY: Tony R. Bradley

PROJECT LENGTH: 0.20 Miles

() PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT () DURING PROJECT DEV.

PROJECT COST		
SUBTOTAL: C-5		\$ \$ 23,800.00
6. SPECIAL FEATURES		
SUBTOTAL: C-6		\$ -
SUMMARY		
A. RIGHT-OF-WAY	LOCAL	\$ -
B. REIMBURSABLE UTILITIES	LOCAL	\$ -
C. CONSTRUCTION		
1. MAJOR STRUCTURES		\$ 144,000
2. GRADING AND DRAINAGE		\$ 30,000
3. BASE AND PAVING		\$ 15,300
4. LUMP ITEMS		\$ 29,000
5. MISCELLANEOUS		\$ 23,800
6. SPECIAL FEATURES		\$ -
SUBTOTAL CONSTRUCTION COST		\$ 242,100
E. & C. (10%)		\$ 24,210
INFLATION (5% PER YEAR)		\$ 12,105
NUMBER OF YEARS	1	
TOTAL CONSTRUCTION COST		\$ 278,415
GRAND TOTAL PROJECT COST		\$ 278,415



SEE PLAN FOR LOCATION

SEE GA STD 4051 OR 4052 FOR DETAILS

PFH0000-00(848) UNION CO.
 P.I. NO. 00000848

TYPICAL SECTION



Department of Transportation State of Georgia

J. TOM COLEMAN, JR.
COMMISSIONER
(404) 656-5206

FRANK L. DANCHETZ
CHIEF ENGINEER
(404) 656-5277

HAROLD E. LINNENKOHL
DEPUTY COMMISSIONER
(404) 656-5212

BILLY F. SHARP
TREASURER
(404) 656-5224

INTERDEPARTMENT CORRESPONDENCE

January 5, 2001

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

TO: Larry Dent, District Engineer, Gainesville
Attn: Tony R. Bradley, District Location Engineer

SUBJECT: Concept Recommendation

**Project Number PFH-0000-00(848) / Union
P.I. No. 0000848
Structure ID 291-5042-0
Location ID 291-00228X-003.17N
CR 228 – FS 236 over Cooper Creek**

This bridge was built in 1958 and consists of masonry endbents and a timber intermediate bent, and a concrete slab superstructure/deck. The original design load capacity is H-15. The bridge is in fair condition. In accordance with DOT policy 2405-1, we recommend that this bridge be replaced due to the existing timber substructure which classifies this bridge as not suitable for widening. This bridge is currently classified as functionally obsolete.

If further information is required, please contact Brian Summers at (404) 651-8522.

BG/BKS

cc: Percy Middlebrooks

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure IL 91-5042-0

Union county

SUFF. RA1 : 56.7

Location & Geography

* Structure I.D. No.: 291-5042-0
 * 200 Bridge Information: 06
 * 6A Feature Int.: COOPER CREEK
 * 6B Critical Bridge: 0
 * 7A Route Number Carried: CR00228
 * 7B Facility Carried: FS 236
 * 9 Location: 10.3 MI SW OF BLAIRSVILLE
 * 2 DOT District: 1
 * 207 Year Photo: 1998
 * 91 Inspection Frequency: 24 Date: 12/01/1999
 * 92A Fract Crit Insp Freq: 0 00 Date: 0000
 * 92B Underwater Insp Freq: 0 00 Date: 0000
 * 92C Other Spc. Insp Freq: 0 00 Date: 0000

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1
 Type: 4
 Designator: 1
 Number: 00228
 Direction: 0

* 16 Latitude: 34-45.5
 * 17 Longitude: 84 -04.0

98 Border Bridge: 000 %Shared: 00
 99 ID Number: 0000000000000000

* 100 Defense Highway: 0
 * 101 Parallel Structure: N
 * 102 Direction of Traffic: 3
 264 Road Inventory Mile Post: 003.17

* 208 Inspection Area: 01 Initials: BDH

* Location I.D. No.: 291-00228X-003.17N
 * XReferen I.D. No: 000-0000000-000.000

Signs & Attachments

* 104 Highway System: 0
 * 26 Functional Classification: 08
 * 204 Federal Route Type: 0 No: 00000
 * 110 Truck Route: 0

206 School Bus Route: 0
 217 Benchmark Elevation: 0.00
 218 Datum: 0

* 19 Bypass Length: 20
 * 20 Toll: 3
 * 21 Maintenance: 64
 * 22 Owner: 64

* 31 Design Load: 2
 37 Historical Significance: 5
 205 Congressional District: 09

* 27 Year Constructed: 1958
 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: 0

* 42 Type Service On: 1 Under: 5
 214 Movable Bridge: 00
 203 Type Bridge: A-B-A-O

* 259 Pile Encasement: 3
 * 43 Structure Type Main: 2 01
 45 No. Spans Main: 002

44 Structure Type Appr: 0 0
 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: 1
 Membrane: 0
 Protection: 8

223 Expansion Joint Type: 00
 242 Deck Drains: 1

243 Parapet Location: 0
 Height: 0
 Width: 0

238 Curb: 0.9 1
 239 Handrail: 2 2
 * 240 Median Barrier Rail: 0

241 Bridge Median Height: 0
 Width: 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: 00
 236 Warning Sign: 1
 234 Delineator: 0
 235 Hazard Boards: 0

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

247 Lighting Street: 0
 Navigation: 0
 Aerial: 0

* 248 County Continuity No: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure IL 91-5042-0

Union juncy

SUFF. RAI

: 56.7

Programming Data

201 Project No: NFS STANDARD
 202 Plans Available: 1
 249 Prop. Proj No:
 250 Approval Status: 0000
 251 P.I. No: 000000
 252 Contract Date: 0000
 260 Seismic No: 00000
 75 Type Work: 00.0
 94 Bridge Imp. Cost: \$ 0
 95 Roadway Imp. Cost: \$ 0
 96 Total Imp. Cost: \$ 0
 76 Imp. Length: 000000
 97 Imp. Year: 0000
 114 Future ADT: 003210 Year: 2018

Measurements

* 29 ADT: 002140 Year: 1998
 109 % Trucks: 1
 * 28 Lanes On: 01 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0021
 * 49 Structure Length: 39
 51 Br. Rdwy. Width: 11.9
 52 Deck Width: 13.9
 * 47 Tot. Horz. Cl: 11.9
 50 Curb/Sdewlk Width: 0.8/0.8
 32 Approach Rdwy Width: 016
 * 229 Shlder Width:
 Rear Lt: 0.0 Type: 7 Rt: 0.0
 Fwrd Lt: 0.0 Type: 7 Rt: 0.0
 Pvment Width:
 Rear: 16.0 Type: 7
 Fwrd: 16.0 Type: 7
 Intersection Rear: 0 Fwrd: 0
 36 Safety Features Br. Rail: 3
 Transition: 3
 App. G. Rail: 3
 App. Rail End: 3
 53 Minimum Cl. Over: 99' 99"
 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: 0.0
 * 10 Max Min Vert Cl: 99' 99" Dir: 0
 39 Nav Vert Cl: 000 Horz: 0000
 116 Nav Vert Cl Closed:
 245 Deck Thickness Main: 14.5
 Deck Thick Approach: 0.0
 246 Overlay Thickness: 0.0
 211 Tons Structural Steel: 0.0
 212 Year Last Painted: Sup: 0000 Sub: 0000

Ratings

66 Inventory Type: 2 Rating: 27
 64 Operating Type: 2 Rating: 38
 231 Calculated Loads
 H-Modified: 16 0
 HS-Modified: 25 0
 Type 3: 21 0
 Type 3s2: 30 0
 Timber: 28 0
 Piggyback: 00 0
 261 H Inventory Rating: 15
 262 H Operating Rating: 23
 67 Structural Evaluation: 5
 58 Deck Condition: 6
 59 Superstructure Condition: 6
 * 227 Collision Damage: 0
 60A Substructure Condition: 5
 60B Scour Condition: 5
 60C Underwater Condition: N
 71 Waterway Adequacy: 7
 61 Channel Protection Cond: 7
 68 Deck Geometry: 3
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 7
 62 Culvert: N

Posting Data

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: 02/01/1996
 253 Fed Notify Date: 0000 0

Hydraulic Data

215 Waterway Data
 Highwater Elev: 0000.0 Year: 0000
 Flood Elev: 0000.0 Freq: 00
 Avg. Streambed Elev: 0000.0
 Drainage Area: 00000
 Area of Opening: 000000
 113 Scour Critical: 6
 216 Water Depth: 02.5 Br Height: 07.3
 222 Slope Protection: 0
 221 Spur Dikes Rear: 0 Fwrd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No Barrels: 0
 Width: 0.0
 Height: 0.0
 Length: 0
 Apron: 0
 * 265 U/W Insp. Area: 0 Diver: ZZZ
 * Location I.D. No: 291-00228X-003.17N
 * XReferen I.D. No: 000-000000-000.000

**A TIME ACCOUNT
FOR:
TEAM CONCEPT MEETING
April 11, 2001
PROJECT : PFH-0000-00(848)
UNION COUNTY**

OPENING TIME: 1:05 pm

PERSONS IN ATTENDANCE :

Todd Long	District Preconstruction
Tony Bradley	District Location Survey
Robby Oliver	District Utilities
Billy Cantrell	District Traffic Operations
Todd Sumption	District Design
Julie Wilson	District Environmentalist
Lamar Paris	Union County Commissioner
Donald Vaughters	U.S. Forest Service
Edward K. Vinson	District Location Survey

The meeting opened with general introductions by all the principals listed and progressed forward with a general overview of the project provided by Mr. Bradley.

Mr. Long noted that the United States Forest Service made a specific request for this project concept, dating back to the spring of the year 2000, with reference to conversations and/or meetings with Mr. Jim Kozack.

Mr. Vaughters expressed some concerns involving the grade changes with regard to the adjacent parking area and wanted to know if this would be incorporated into the project.

The determination was to incorporate the entranceway to the parking area into the project.

Mr. Bradley inquired as to the Forest Services claims to the Right of Way involved within the project area.

Mr. Vaughters confirmed that the Forest Service typically claims a ditch to ditch Right of Way and that the roadway had no County Right of Way or county maintenance.

Mr. Vaughters said a study on the area would be necessary concerning the various environmental issues involved.

Ms. Wilson assured him that this would be accomplished, as she was involved in N.E.P.A. at the district level here. It was also mentioned that the Forest Service had their own representatives with regard to the N.E.P.A. program.

Mr. Bradley inquired about design boundaries and the necessity for formal written documentation.

Mr. Long responded with a need to follow up on this matter at a later time.

A general resolution was reached concerning the acquisition of Right of Way, and a determination was made that all acquisitions were to be granted as temporary easements.

Ms. Wilson expressed a need for definite construction limits to navigate by with regard to her involvement.

The meeting progressed with project details and general concept discussion by Mr. Bradley up until the question of design speed arose.

Mr. Vaughters, Mr. Bradley, and Mr. Long finally reached a consensus that a 20 M.P.H. straight bridge design would be ideal, if design parameters permitted such.

Alternate routes were discussed with regard to the detouring of traffic if the necessity arose, but was abandoned in favor of closing the roadway completely.

Ms. Wilson expressed some concerns about runoff into a nearby tributary of Coopers Creek, which was noted by all concerned. She also added that the project was not historic, and the published time frame was acceptable.

The subject of utilities was quickly resolved with respect to Mr. Oliver's input that a telephone cable attached to the existing structure could be reattached to the new structure at the utility company's expense.

The meeting concluded with a general agreement in all areas of the concept with one special exception. The special exception was a notation that the parking area had been approved for separate federal funding.

There were no other major questions or concerns regarding the project, and the meeting was declared absolute and adjourned.

CLOSING TIME: 1:40 pm

NOTICE OF LOCATION AND DESIGN APPROVAL**PFH-0000-00(848)****Union County****P.I. No. 0000848**

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.

This project consists of the replacement of the existing bridge on CR 228/ FS 236 over Cooper Creek. GMD 994.

Date of Location and Design Approval: _____

Drawings or maps or plats of the proposed project as approved are on file and are available for inspection at the Georgia Department of Transportation, 2505 Athens Highway, Gainesville, Ga. Any interested party may obtain a copy of the drawings, maps or plats by writing to the Georgia Department of Transportation, 2502 Athens Highway, S.E., Gainesville, Georgia 30503-1057 and paying a nominal cost therefor.

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:

Larry E. Dent
District Engineer
Georgia Department of Transportation
P.O. Box 1057
Gainesville, Georgia 30503

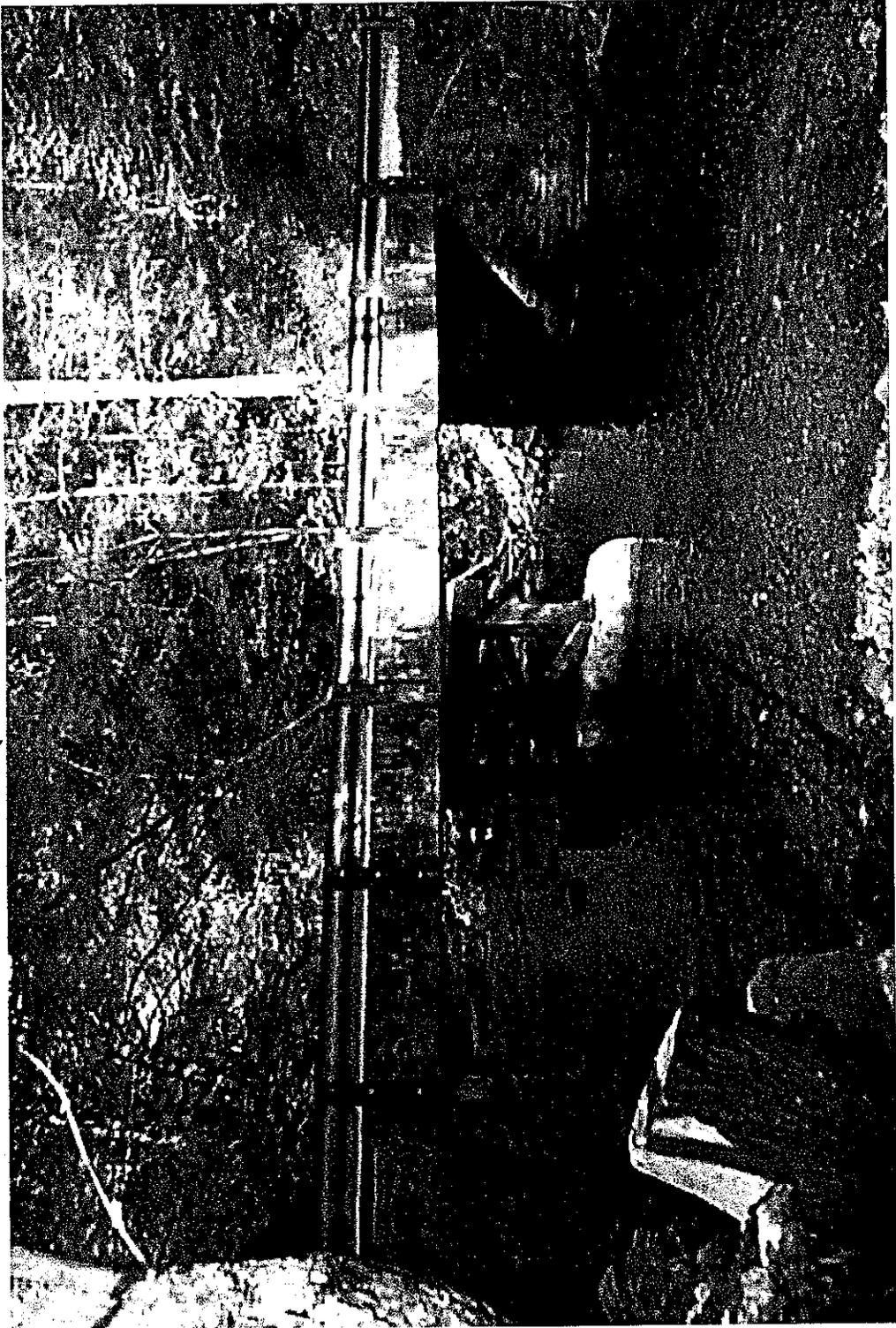
770.532.5526

PFH-0000-00(848) UNION CO.



10/23/00

PFH-0000-00(848) UNION CO.



10/23/00

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

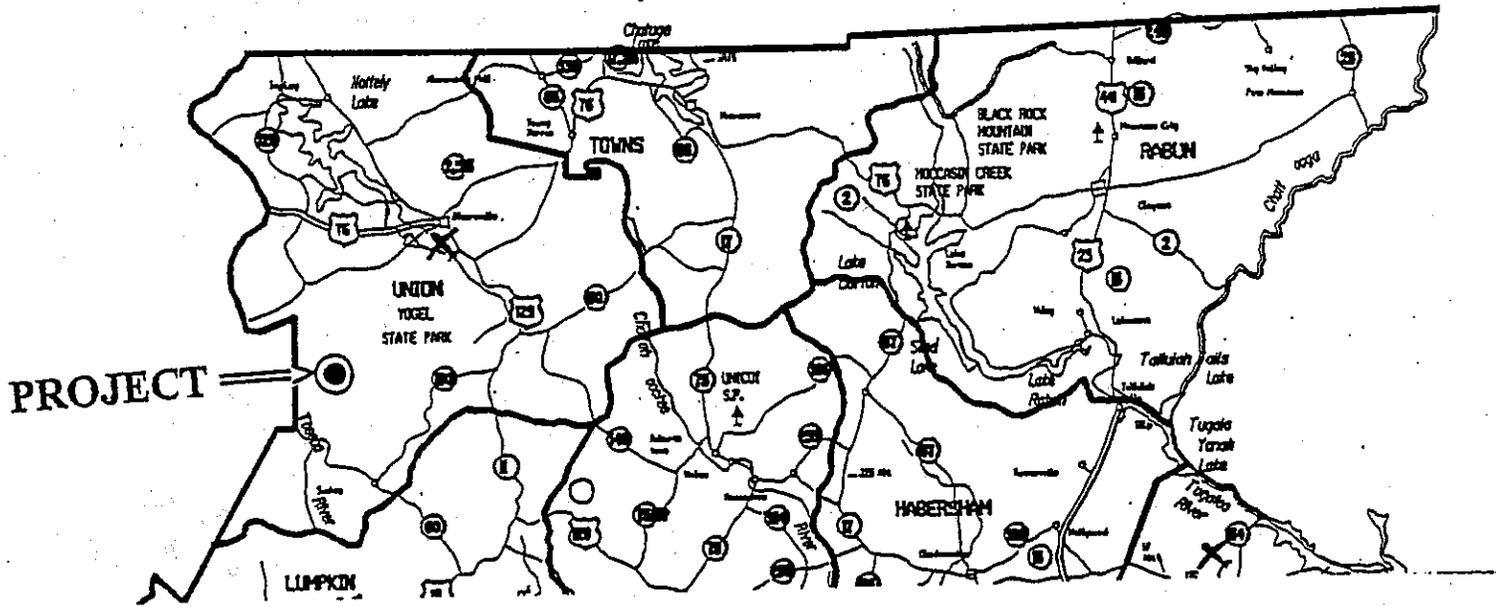
Project Number: PFH-0000-00(848)

County: UNION

P. I. Number: 0000848

Federal Route Number: FS 236/ CR 228

County Route Number: N/A



Recommendation for approval:

DATE 4/13/01

DATE 4/13/01

[Signature]
Project Manager
[Signature]
Office Head/District Engineer

The 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 4-27-01

DATE _____

DATE _____

DATE _____

DATE _____

DATE _____

[Signature]
State Transportation Planning Administrator

State Transportation Programming Engineer

State Environmental/Location Engineer

State Traffic Operations Engineer

Project Review Engineer

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

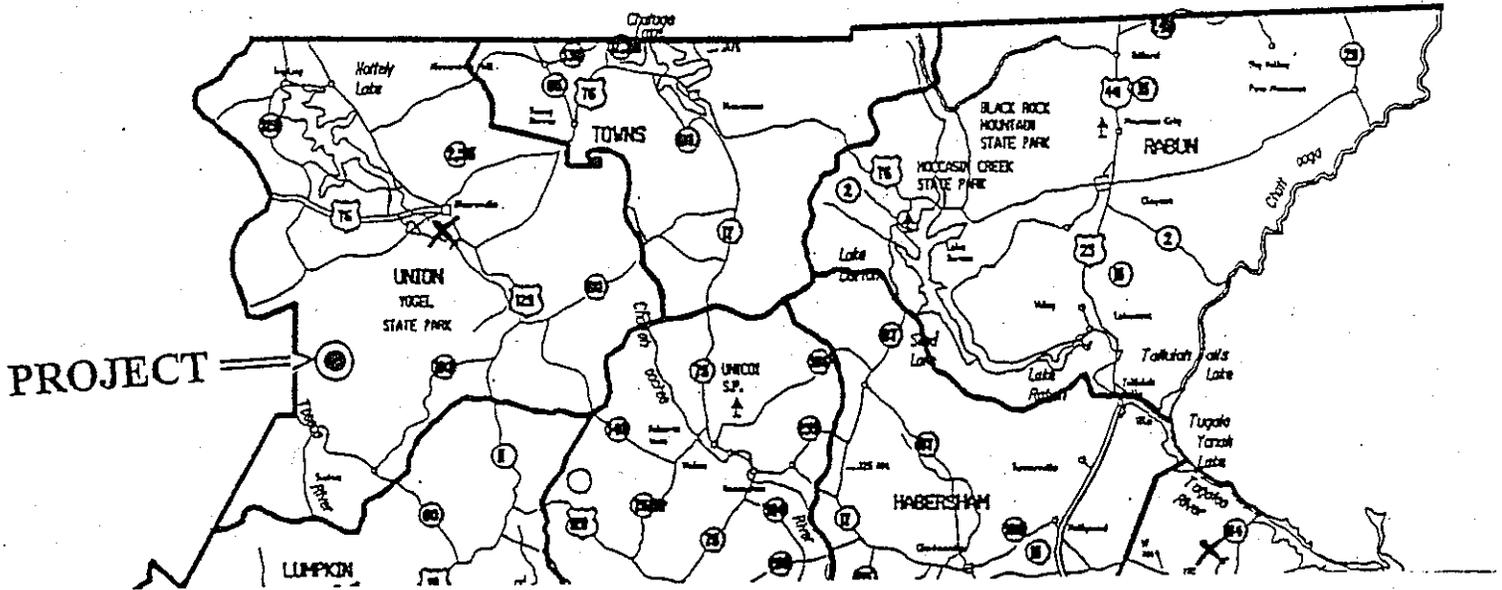
Project Number: PFH-0000-00(848)

County: UNION

P. I. Number: 0000848

Federal Route Number: FS 236/ CR 228

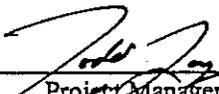
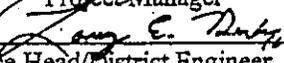
County Route Number: N/A



Recommendation for approval:

DATE 4/13/01

DATE 4/13/01


 Project Manager

 Office Head/District Engineer

The 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 _____

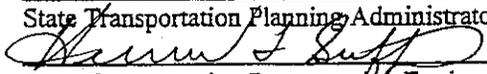
DATE 4/24/01

DATE _____

DATE _____

DATE _____

DATE _____

State Transportation Planning Administrator

 State Transportation Programming Engineer
 State Environmental/Location Engineer
 State Traffic Operations Engineer
 Project Review Engineer
 State Bridge & Structural Engineer

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: P.I. No. 0000848

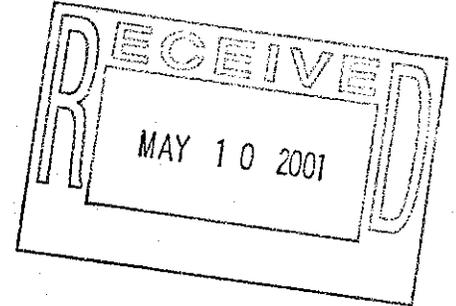
OFFICE: Environment/Location

DATE: May 8, 2001

FROM: ^{HDK} Harvey D. Keeper, State Environmental/Location Engineer

TO: Wayne Hutto, P.E., Assistant Director of Preconstruction

SUBJECT: **PROJECT CONCEPT REPORT**
PFH-0000-00(848), UNION COUNTY



The above subject concept report has been reviewed. This office has no comments at this time.

If you have any questions, please let me know.

HDK/rtt

Attachment

cc: David Mulling
Todd Long

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

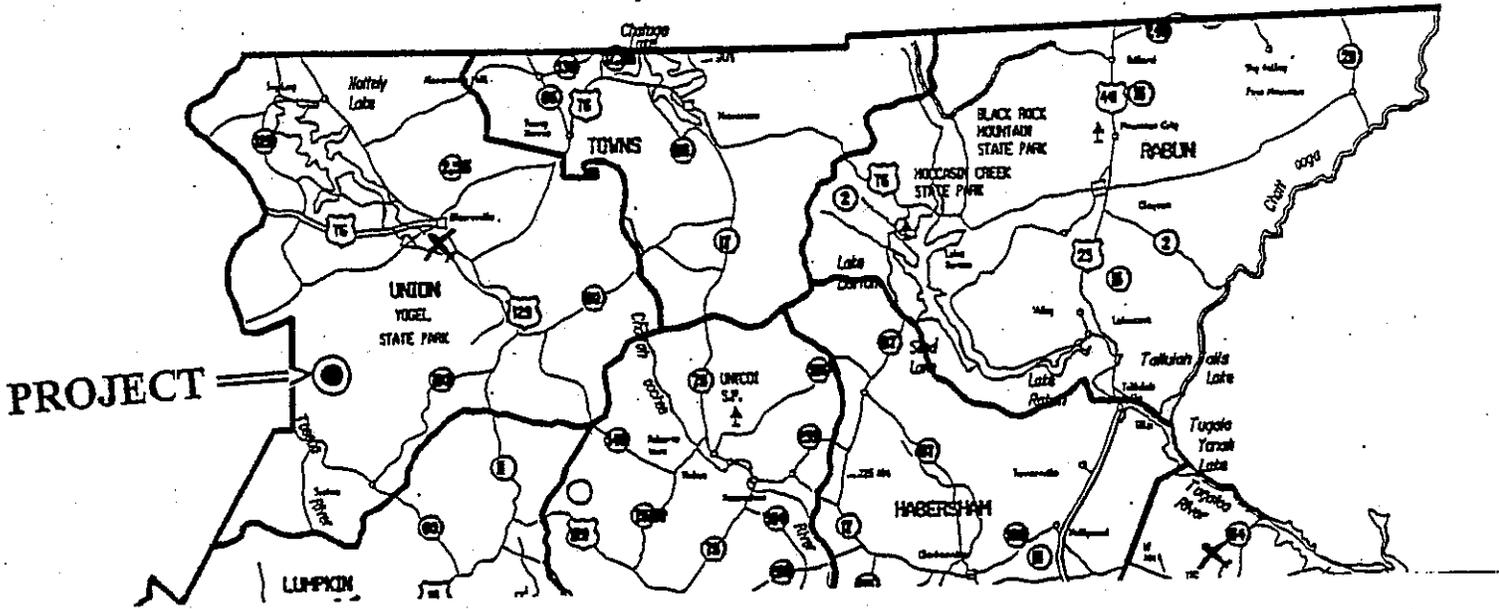
Project Number: PFH-0000-00(848)

County: UNION

P. I. Number: 0000848

Federal Route Number: FS 236/ CR 228

County Route Number: N/A



Recommendation for approval:

DATE 4/13/01

[Signature]
Project Manager

DATE 4/13/01

[Signature]
Office Head/District Engineer

The 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 _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE 05/08/01

[Signature]
State Environmental/Location Engineer

DATE _____

State Traffic Operations Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Engineer

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

File: PHF-0000-00(848)/Union County
P.I. No. 000848

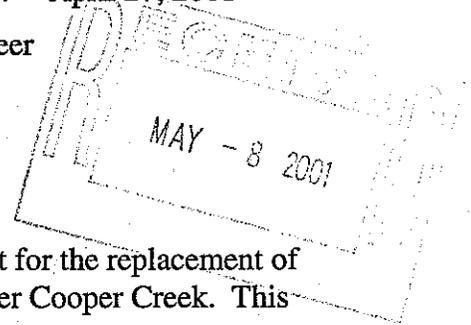
Office: Traffic Operations
Atlanta, Georgia

Date: April 27, 2001

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 above referenced concept report for the replacement of the functionally obsolete bridge on FS 236/CR 228 over Cooper Creek. This project is located 10.3 miles southwest of Blairsville.

The existing structure is 13.9 feet wide with a sufficiency rating of 56.7. The concept proposes to construct a new structure 30 feet wide for the two-lane roadway. The current ADT is 250 vehicles with a design year, 2025, ADT estimated at 350 vehicles. The proposed bridge width is in accordance with MOG 4265-9 for this type of roadway.

We believe this concept will improve safety and traffic operations within this area, therefore find this report satisfactory for approval.

MGW/BM

Attachment (signature page)

Cc: Harvey Keeper, Office of Environmental Location
Larry Dent, District Engineer-Gainesville
Attention: Todd Long, District Preconstruction Engineer
David Mulling, Engineering Services, w/ attachment
Marta Rosen, Office of Planning
Paul Liles, State Bridge & Structural Design Engineer
Chuck Hasty, TMC
General Files

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

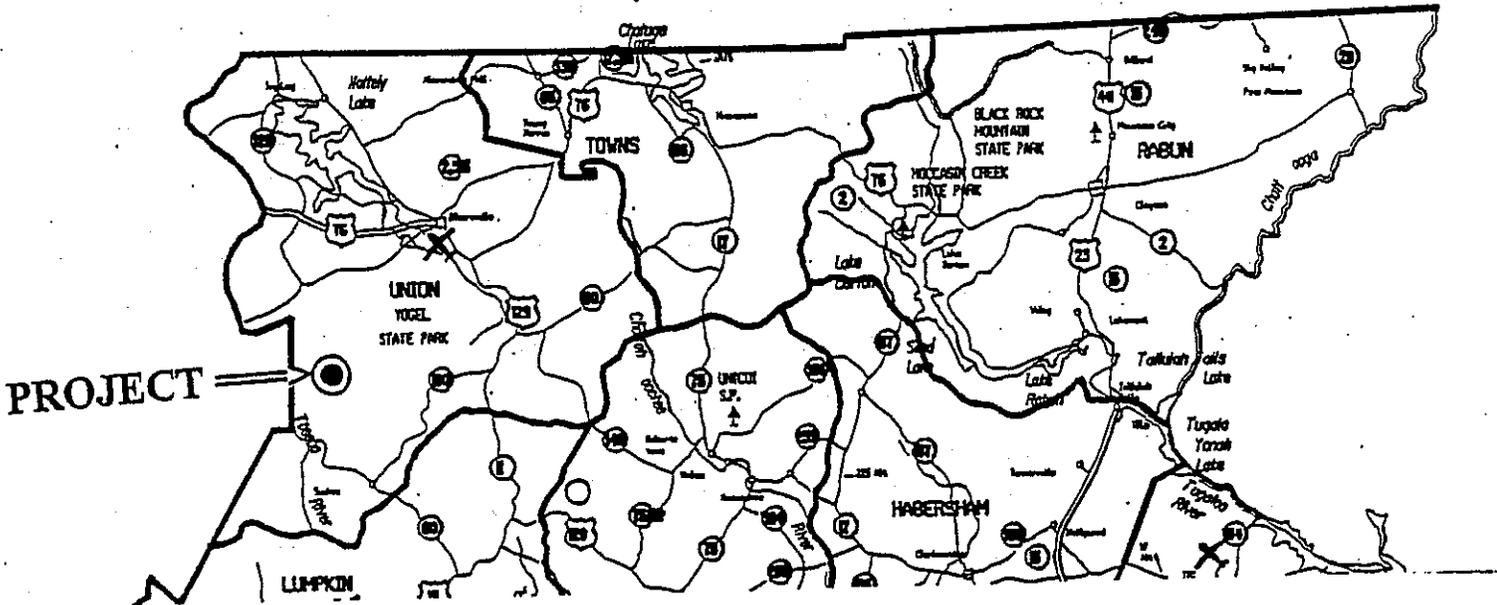
Project Number: PFH-0000-00(848)

County: UNION

P. I. Number: 0000848

Federal Route Number: FS 236/ CR 228

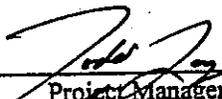
County Route Number: N/A

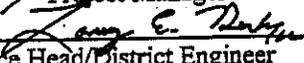


Recommendation for approval:

DATE 4/13/01

DATE 4/13/01



 Project Manager


 Office Head/District Engineer

The 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 _____

State Transportation Planning Administrator

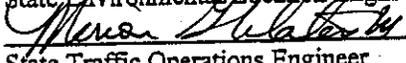
DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE 04/27/01



State Traffic Operations Engineer

DATE _____

Project Review Engineer

DATE _____

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

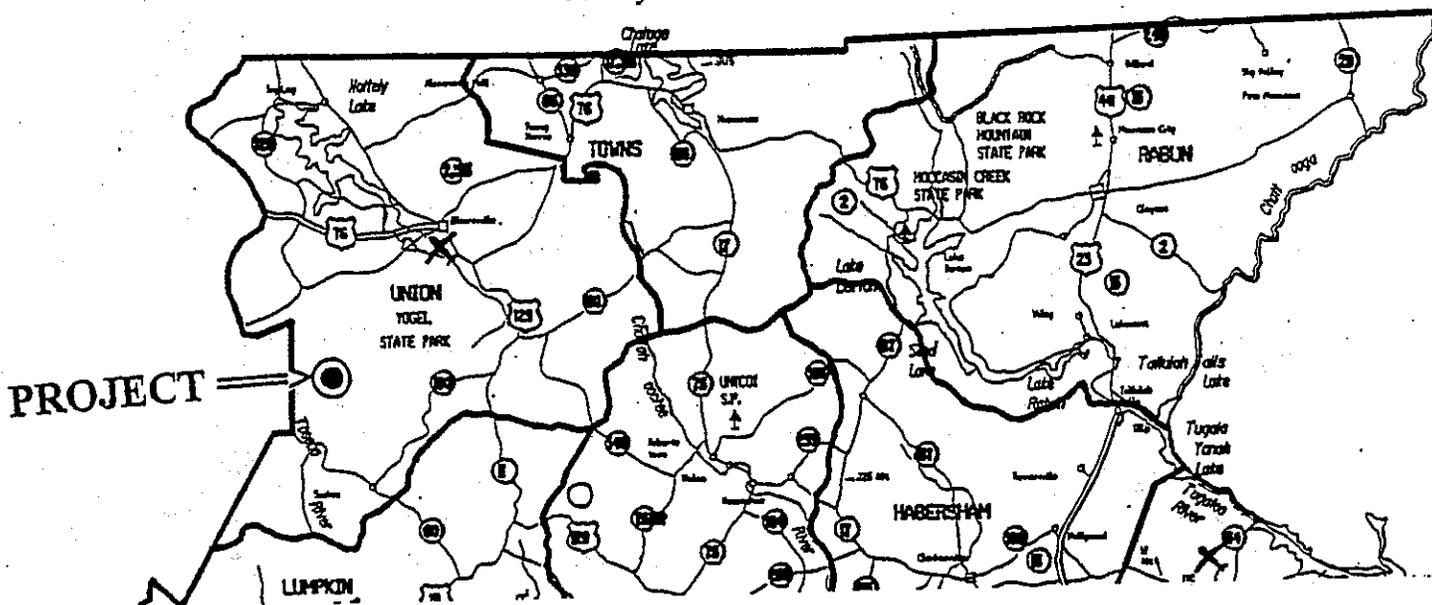
Project Number: PFH-0000-00(848)

County: UNION

P. I. Number: 0000848

Federal Route Number: FS 236/ CR 228

County Route Number: N/A



Recommendation for approval:

DATE 4/13/01

DATE 4/13/01

[Signature]
Project Manager
[Signature]
Office Head/District Engineer

The 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 _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Operations Engineer

DATE 4/25/01

[Signature]
Project Review Engineer

DATE _____

State Bridge & Structural Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

District One

PROJECT CONCEPT REPORT

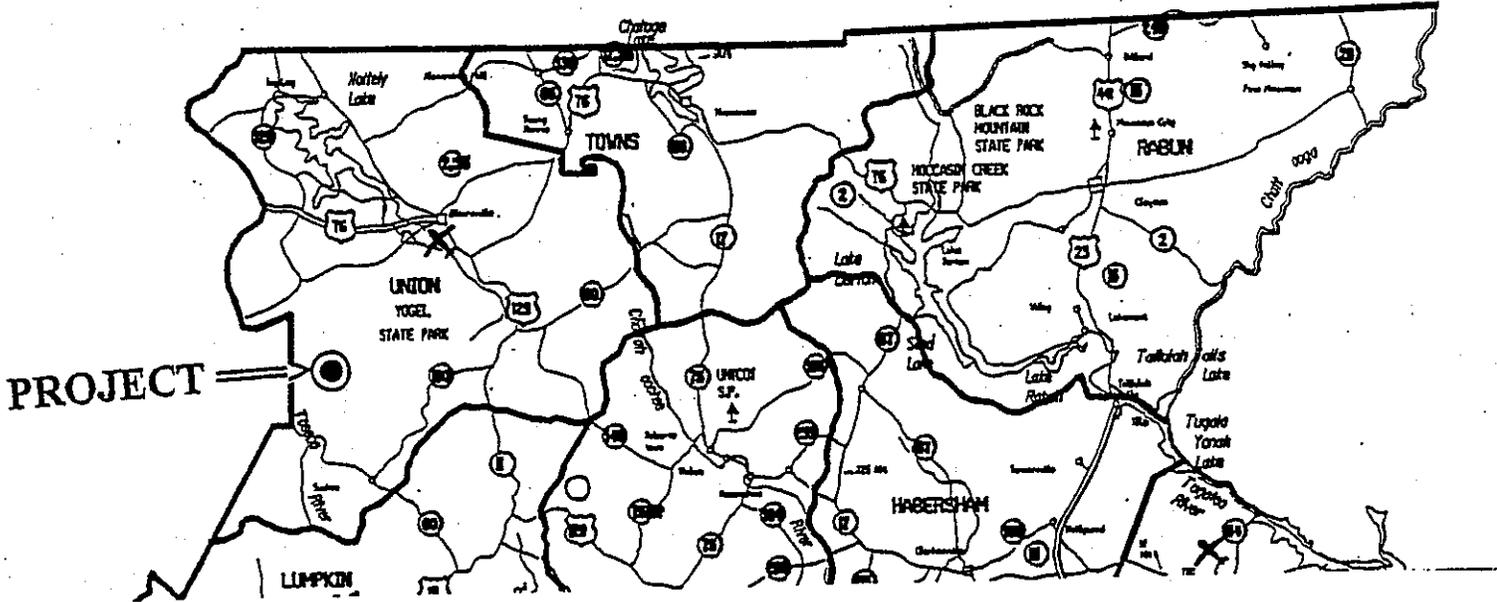
Project Number: PFH-0000-00(848)

County: UNION

P. I. Number: 0000848

Federal Route Number: FS 236/ CR 228

County Route Number: N/A



Recommendation for approval:

DATE 4/13/01

DATE 4/13/01

[Signature]
Project Manager
[Signature]
Office Head/District Engineer

The 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 _____

State Transportation Planning Administrator

DATE _____

State Transportation Programming Engineer

DATE _____

State Environmental/Location Engineer

DATE _____

State Traffic Operations Engineer

DATE _____

Project Review Engineer

DATE 4/23/01

[Signature]
State Bridge & Structural Engineer

Project Concept Report page 4
 Project Number: PFH-0000-00(848)
 P. I. Number: 0000848
 County: Union

Proposed Design Features:

- Proposed typical section(s): Two 12' travel lanes with 6' shoulders. Typical Section attached.
- Proposed Design Speed Mainline 20mph
- Proposed Maximum grade Mainline 12%
- Proposed Maximum degree of curve 10 degree
- Right of way
 - Width:
 - Easements: Temporary (X), Permanent (), Utility (), Other ().
 - Type of access control: Full (), Partial (), By Permit (X), Other ().
 - Number of parcels: 1 (USFS) Number of displacements:
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: *28'-0" m*
- Structures: The proposed bridge will be ~~30'-0"~~ *28'-0"* wide, consisting of two 12'-0" travel lanes and 3'-0" shoulders. The bridge is proposed to be 60' long.
- Traffic control during construction: Road to be closed.
- Design Exceptions to controlling criteria anticipated:

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

- Environmental concerns:
- UNDERGROUND STORAGE TANKS: None Known
- HAZARDOUS SITES: None Known