ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-1574(18) Turner County
P.I. No. 442980

OFFICE Preconstruction

DATE June 28, 2001

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
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Marion Waters
Marta Rosen
Paul Liles
Jimmy Chambers
David Crim
BOARD MEMBER

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-1574(18) Turner County
P.I. No. 442980

OFFICE Preconstruction

DATE June 22, 2001

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 structurally deficient bridge on SR 112 over Deep Creek, 4.6 miles east of Ashburn, Georgia. The existing bridge, constructed in 1949, is load limited with a sufficiency rating of 44. State Route 112 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. Traffic is projected to be 1,400 and 2,100 VPD in the years 2007 and 2027 respectively. The posted speed is 45 and the design speed is 55 MPH.

The construction proposes to construct a new 400' x 40' concrete bridge over Deep Creek at the existing bridge site. 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 this project are:

	PROPOSED	APPROVED	PROG DATE	LET DATE
Construction (includes E&C and inflation)	$2,678,000	$1,021,000	2005	03-07
Right-of-Way	$ 23,000	$ 10,000		
Utilities*	$ 8,000	-----		

*Turner County refused LGPA for utilities 9-7-99.

BRST-1574(18) Turner
June 22, 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 _____
Frank L. Danchetz, P.E., Chief Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **BRST-1574(18) Turner County**
S.R. 112 over Deep Creek
P.I. No. 442980

OFFICE Atlanta

FROM James R. Chambers, State Consultant Design Engineer for

DATE June 8, 2001

TO Wayne Hutto, Assistant Director of Preconstruction

RECEIVED JUN 11 2001

SUBJECT **PROJECT CONCEPT REPORT**

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

People on the distribution list below should review the Concept Report and send comments and/or the signature page to the Preconstruction office within 10 days as per the PDP.

Distribution: Marta Rosen, State Transportation Planning Administrator
Herman Griffin, State Transportation Programming Engineer
Harvey Keepler, State Environment/Location Engineer
Marion Waters, State Traffic Operations Engineer
David Crim, District Engineer – Tifton
David Mulling, Project Review Engineer
Paul Liles, State Bridge & Structural Engineer

Concept Report

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design

Project Number: BRST-1574(18)
County: Turner
P. I. Number: 442980

Federal Route Number: N/A
State Route Number: 112

Recommendation for approval:

DATE 6-8-01 _____ Project Manager

DATE 6-11-01 _____ State Consultant Design Engineer

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

DATE_____ _____ State Transportation Planning Administrator

DATE_____ _____ State Transportation Programming Engineer

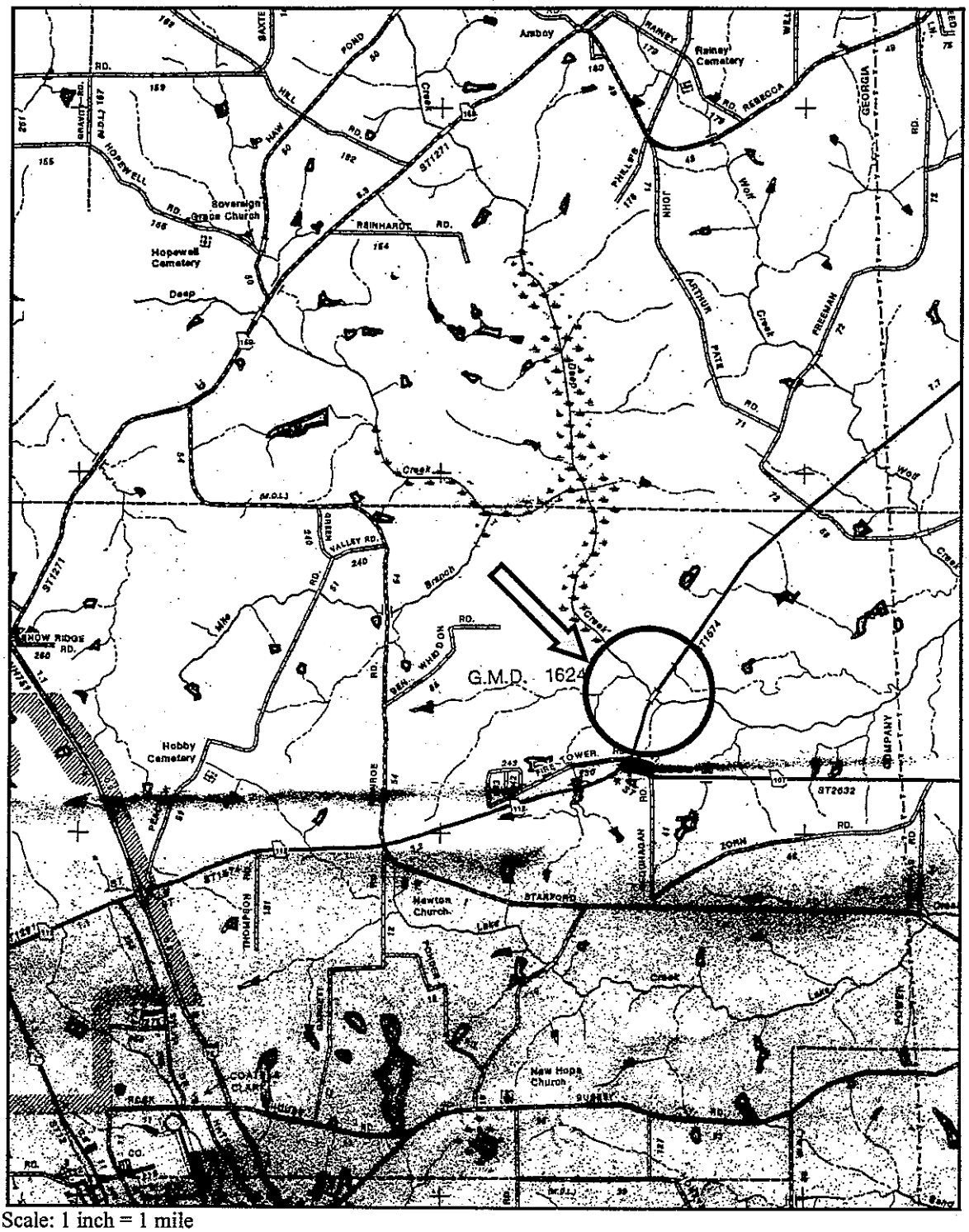
DATE_____ _____ State Environmental/Location Engineer

DATE_____ _____ State Traffic Operations Engineer

DATE_____ _____ District Engineer

DATE_____ _____ Project Review Engineer

DATE_____ _____ State Bridge Design Engineer



Scale: 1 inch = 1 mile

Location Map

Project: BRST-1574(18) Turner County **PI No.:** 442980-

Description: SR 112 over Deep Creek 4.6 mi E of Ashburn

Need and Purpose: This project will replace the structurally deficient bridge at State Route 112 over Deep Creek. The bridge is located approximately 5 miles east of Ashburn and is on a STAA Route (Surface Transportation Assistance Act) for single and twin-trailer trucks. Land use in the area of the bridge is undeveloped.

The 30-foot two-lane bridge will be replaced with a 40-foot wide bridge. The project will tie back into the existing two-lane roadway. The project is not associated with any other construction project and will not restrict consideration of any future improvements. The 1999 traffic volume is 1,100 ADT and is projected to increase to 2,100 ADT by 2027.

The Structural Evaluation Rating for the bridge is a 2 and the Sufficiency Rating is a 44.2. Rather than improve a structure with a Sufficiency Rating below 50, the Department currently schedules the bridge for replacement. The Structural Evaluation Rating is on a scale of 0-9 with 2 being the lowest rating for an operable bridge. A zero requires closing the bridge and a 2 require replacement. In accordance with MOG 2450-1, the Structural Evaluation Rating and the Sufficiency Rating of the bridge requires the bridge be replaced.

Description of the proposed project: The proposed project would consist of replacing the existing bridge and approaches on SR 112 over Deep Creek. The existing 2-lane bridge is 351 feet long and 24 feet wide and has 13 spans, each approximately 27 feet long. The proposed bridge will be 40 feet wide, consisting of two 12-foot lanes with two 8-foot shoulders. The proposed bridge is expected to be approximately 400 ft. in length and have 10 spans, each approximately 40 ft. long. The existing approach roadway has 2 lanes with rural shoulders on an existing right-of-way of 100 feet. The proposed approaches would consist of two 12-foot lanes with 10-foot shoulders, 2 feet of which will be paved. Additional right-of-way acquisition on both sides of the road is anticipated. The total length of bridge and approaches is approximately 2800 feet (0.53 miles).

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

PDP Classification: Minor Project Designation. Full Oversight ( ), Exempt (X), State Funded ( ), or Other ( )

Functional Classification: Rural Minor Arterial

U. S. Route Number(s): N/A **State Route Number(s):** 112

Traffic (AADT):

Current Year: (2007) 1400 Design Year: (2027) 2100
K = 9%, D = 60%, T = 8%, 24-Hr. T = 10%, S.U. = 4%, COMB. = 6%

Existing design features:

- Typical Section: The existing roadway is a two lane rural section with 12-foot travel lanes, shoulders, and ditches.
- Posted speed: 45 mph Maximum degree of curvature: 3°00'
- Maximum grade: 1.57 %
- Width of right of way: 100 ft.
- Major structures: Existing Bridge Over Deep Creek
  - Length: 351'
  - Width: 24'
  - Sufficiency Rating: 44.2
- Major interchanges or intersections along the project: N/A
- Existing length of roadway segment: 1560'

Proposed Design Features:

- Proposed typical section(s): The proposed typical section will consist of two 12-foot travel lanes, 10-foot shoulders (2-foot paved, 8-foot grass) and normal roadway ditch sections.
- Proposed Design Speed Mainline: 55 mph
- Proposed Maximum grade Mainline: 1.0% Maximum grade allowable: 6%
- Proposed Maximum grade Side Street: N/A Maximum grade allowable: N/A
- Proposed Maximum grade driveway: N/A
- Proposed Maximum degree of curve: 1°30' Maximum degree allowable: 6°00'
- Right of way:
  - Width: 200 ft. maximum
  - Easements: Temporary (X), Permanent ( ), Utility ( ), Other ( )
  - Type of access control: Full ( ), Partial ( ), By Permit (X), Other ( )
  - Number of parcels: 4
  - Number of displacements:
    - Business: 0
    - Residences: 0
    - Mobile homes: 0
    - Other: 0
- Structures:
  - Bridges: The proposed bridge over Lost Creek will have an approximate length of 400' and a width of 40', which includes two 12-foot travel lanes and 8-foot shoulders.
  - Retaining walls: N/A
- Major intersections and interchanges: N/A
- Traffic control during construction: Traffice will be maintained on the existing alignment while the permanent bridge is being built on the west side of the current alignment.

- Design Exceptions to controlling criteria anticipated:

	UNDETERMINED	YES	NO
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)

- Design Variances: None
- Environmental concerns: Environmental study underway
- Level of environmental analysis:
  - Are Time Savings Procedures appropriate: Yes (X) No ( )
  - Categorical Exclusion: Anticipated (X)
  - Environmental Impact Statement (EIS) ( )
- Utility involvements:
  Overhead electric
  Underground Telephone

Project responsibilities:

- Design
- Right of Way Acquisition
- Relocation of Utilities
- Letting to contract
- Supervision of construction
- Providing material pits
- Providing detours

Coordination:

- Concept meeting date: May 23, 2001
- P. A. R. meetings: None
- Public involvement: No public involvement anticipated
- Local government comments: LGPA Agreement
- Other projects in the area: None

- Other coordination to date: None

Scheduling – Responsible Parties' Estimate:

- Time to complete the environmental process: 9 Months
- Time to complete preliminary construction plans: 5 Months
- Time to complete right of way plans: 1 Month
- Time to complete the Section 404 Permit: Months
- Time to complete final construction plans: 4 Months
- Time to complete to purchase right of way: 6 Months
- List other major items that will affect the project schedule: N/A

Alternates considered:
Permanent Alignment
On-Site Detour
Off-Site Detour
No Build

Comments: It was determined that the other alternates were not feasible. A brief explanation is as follows:

1. On-site Detour: This alternate was discarded because it would prove too expensive to build the necessary detour. The length of detour bridge required was approximately 300'.
2. Off-site detour: There were no adjacent roads that would serve as a convenient off-site detour. The shortest detour is 11 miles.
3. No Build: The Structural Evaluation Rating for the bridge is a 2 and the Sufficiency Rating is a 44.2. Since the Sufficiency Rating is below 50, Department guidelines require that the bridge be replaced. The No Build alternate was not a viable option.

Attachments:

1. Cost Estimates:
    a. Construction including E&C,
    b. Right of Way, and
    c. Utilities
2. Typical sections
3. Concept layout
4. Bridge inventory
5. Concept Team Meeting minutes
6. LGPA Agreement
7. Location and Design Notice

Approvals:

Concur: _____
Director of Preconstruction

Approve: _____
Chief Engineer

PRELIMINARY COST ESTIMATE

BIG BRIDGE WORK ORDER NUMBER 2 - SR 112 over Deep Creek 4.6 mi E of Ashburn

PROJECT NUMBER:	BRST-1574(18)	COUNTY:	Turner
DATE:	June 6, 2001	ESTIMATED LETTING DATE:	-
PREPARED BY:	Kerrie Boyette	PROJECT LENGTH (MILES):	0.53

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

PROJECT COST

A. RIGHT-OF-WAY:		
1. PROPERTY (LAND & EASEMENT): 2.89 Ac total	$	14,450
2. DISPLACEMENTS: RES 0; BUS 0; MH 0	$	0
3. OTHER COST (ADM./ COST, INFLATION)	$	8,000
SUBTOTAL: A	$	22,450
B. REIMBURSABLE UTILITIES: (LGPA)		
1. RAILROAD	$	0
2. TRANSMISSION LINES	$	0
3. SERVICES	$	7,500
SUBTOTAL: B	$	7,500
CONSTRUCTION		
C. MAJOR STRUCTURES:		
1. RETAINING WALLS	$	0
2. BRIDGES (400 FT X 40 FT)	$	880,000
3. DETOUR BRIDGES	$	0
4. REMOVAL OF EXISTING BRIDGE	$	84,240
5. BOX CULVERTS	$	0
SUBTOTAL: C	$	964,240

PROJECT CONCEPT REPORT

D. GRADING, DRAINAGE AND EROSION CONTROL:		
1. EARTHWORK		
a. PERMANENT BORROW: (55000 CY)	$	220,000
b. PERMANENT EXCAVATION: (4000 CY)	$	24,000
c. DETOUR BORROW: (0 CY)	$	0
d. DETOUR EXCAVATION: (0 CY)	$	0
SUBTOTAL: D-1	$	244,000
2. DRAINAGE:		
a. Cross Drain Pipe	$	0
b. Curb and Gutter	$	0
c. Longitudinal System (161 FT. SLOPE DRAIN PIPE)	$	12,304
SUBTOTAL: D-2	$	12,304
3. TEMPORARY EROSION CONTROL:		
a. Silt Fence - Type A (3200 FT)	$	8,151
b. Straw Bales or Silt Fence - Type B (2500 FT)	$	5,686
c. Silt Fence - Type C (670 FT)	$	3,162
d. Temporary Grass (50 LB)	$	1,784
e. Temporary Mulch (4.8 TN)	$	2,410
f. Silt Control Gates (4)	$	2,600
g. Check Dams/ Ditch Checks	$	0
h. Sediment Basins	$	0
SUBTOTAL: D-3		23,794
4. PERMANENT EROSION CONTROL:		
a. Concrete Ditch Paving	$	0
b. Permanent Soil Reinforcing Mat (1400 SY)	$	15,795
c. Bituminous Treated Roving (4680 SY)	$	12,870
d. Rip Rap for Bridge End Rolls (925 SY)	$	35,083
e. Erosion Blankets or Mats (1385 SY)	$	3,462
f. Permanent Grassing (160 LB)	$	10,253
SUBTOTAL: D-4	$	77,463
SUBTOTAL: D	$	357,561

PROJECT CONCEPT REPORT

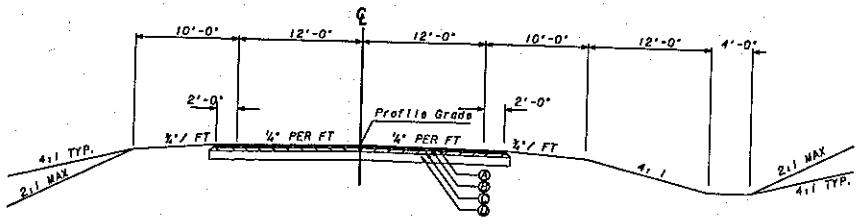
E. BASE AND PAVING:		
1. PERMANENT ROADWAY		
a. AGGREGATE BASE (90 TN)	$	1,398
b. SURFACE (600 TN)	$	23,123
c. BINDER (400 TN)	$	14,615
d. BASE (1200 TN)	$	45,646
e. LEVELING (10 TN)	$	393
f. TACK COAT (660 GAL)	$	721
g. APPROACH SLABS (267 SY)	$	28,133
SUBTOTAL: E-1	$	114,028
2. DETOUR ROADWAY		
a. AGGREGATE BASE	$	0
b. SURFACE	$	0
c. BINDER	$	0
d. LEVELING	$	0
e. TACK COAT	$	0
f. APPROACH SLABS	$	0
SUBTOTAL: E-2	$	0
SUBTOTAL: E	$	114,028
F. LUMP ITEMS:		
1. TRAFFIC CONTROL	$	50,000
2. CLEARING AND GRUBBING	$	157,484
SUBTOTAL: F	$	207,484
G. MISCELLANEOUS:		
1. FENCING AND SIGNING		
a. FENCING	$	0
b. SIGNS & POSTS (16 SIGNS)	$	6,202
c. SIGNALS	$	0
SUBTOTAL: G-1	$	6,202
2. STRIPING		
a. 5 IN WHITE SOLID (1.1 MILES)	$	276
b. 5 IN YELLOW SOLID (1.1 MILES)	$	278
SUBTOTAL: G-2	$	554

PROJECT CONCEPT REPORT

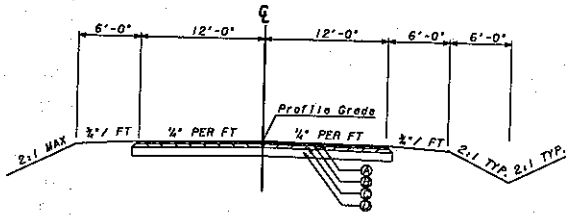
3. GUARDRAIL	
a. TYPE W (4400 FT)	$ 52,582
b. TYPE T (166 FT)	$ 4,129
c. TYPE 12 ANCHORS (2)	$ 3,000
d. TYPE 1 ANCHORS (2)	$ 870
e. REMOVAL	$ 4,060
SUBTOTAL: G-3	$ 64,641
SUBTOTAL: G	$ 71,397

ESTIMATE SUMMARY		
A. RIGHT-OF-WAY		$ 22,450
B. REIMBURSABLE UTILITIES		$ 7,500
CONSTRUCTION		
C. MAJOR STRUCTURES		$ 964,240
D. GRADING, DRAINAGE AND EROSION CONTROL		$ 357,561
E. BASE AND PAVING		$ 114,028
F. LUMP ITEMS		$ 207,484
G. MISCELLANEOUS		$ 71,397
CONTINGENCIES (10%)		$ 171,471
SUBTOTAL CONSTRUCTION COST		$ 1,886,180
E. & C. (10%)		$ 188,618
INFLATION (5% PER YEAR)		$ 573,228
NUMBER OF YEARS	5	
TOTAL CONSTRUCTION COST		$ 2,648,027
GRAND TOTAL PROJECT COST		$ 2,677,977
GRAND TOTAL PROJECT COST (DETOUR)		$ 0
GRAND TOTAL PROJECT COST (PERMANENT)		$ 2,677,977

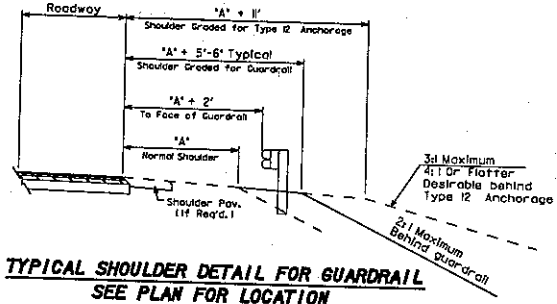
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRST-1574(18)		



TYPICAL ROADWAY SECTION



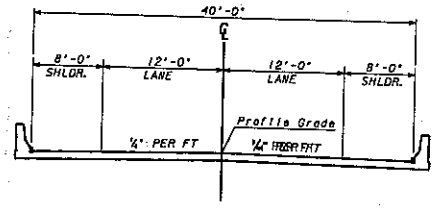
TYPICAL DETOUR SECTION



TYPICAL SHOULDER DETAIL FOR GUARDRAIL
SEE PLAN FOR LOCATION
(FOR PLACEMENT AND LOCATION INFORMATION SEE GA STD. 4052)

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	0-10'	0-10'
2:1*	OVER 10'	OVER 10'

*REQUIRES GUARDRAIL



TYPICAL BRIDGE SECTION

HNTB
BIGBRIDGE WORK ORDER SERVICES
WORK ORDER #2
S.R. 112 OVER DEEP CREEK

Wolverton & Associates INCORPORATED
5300 OAKBROOK PARKWAY
SUITE 150
NORCROSS, GA 30093
(770) 447-8999

DATE	REVISIONS	DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION
CONCEPT TYPICAL SECTIONS
PROJECT: BRST-1574(18)
COUNTY: TURNER

DRAWING No.

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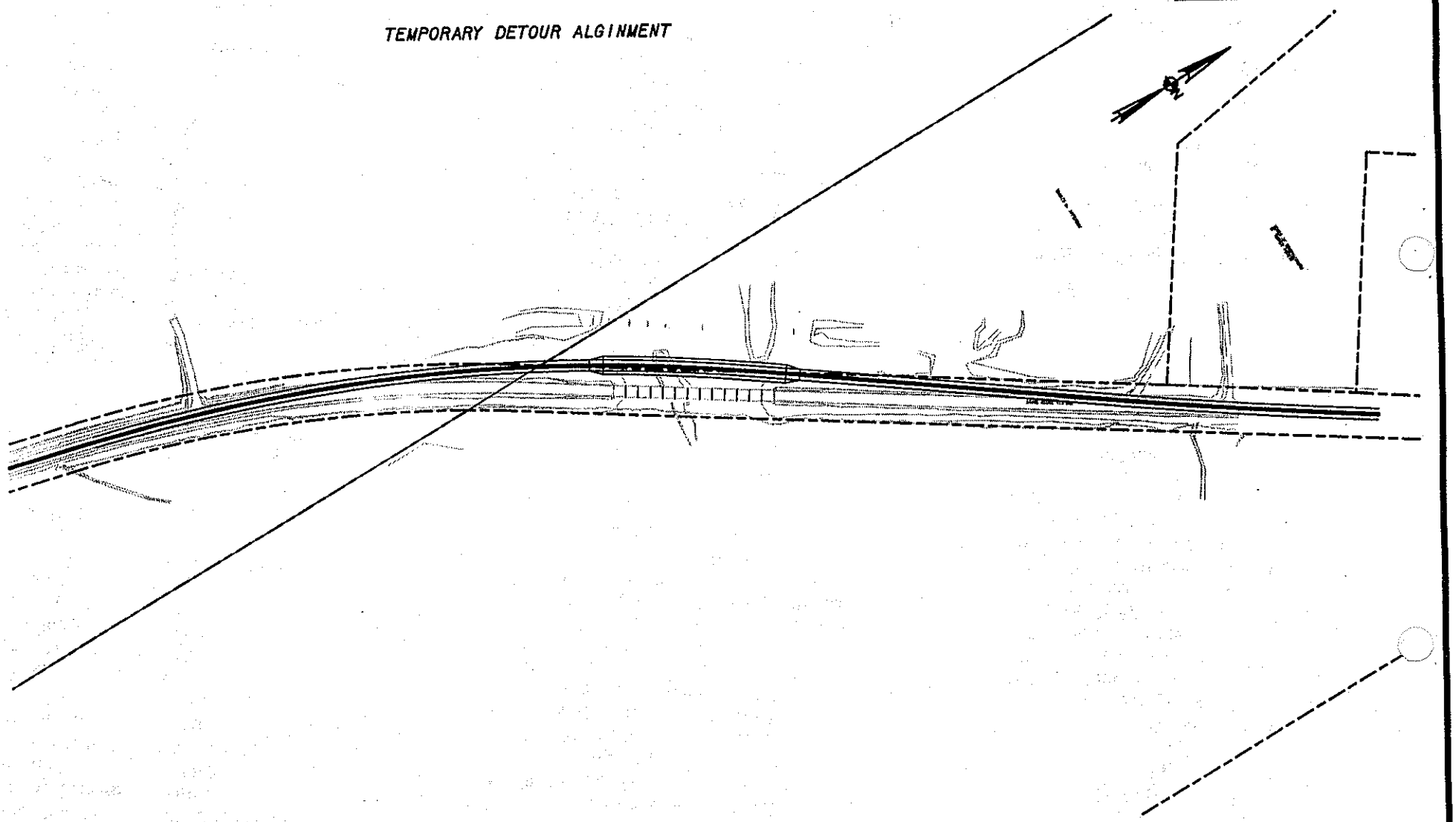
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRST-1574(18)		

TEMPORARY DETOUR ALGINMENT



50 0 50 100 150FT

SCALE 1"=50'

HNTB

BIGBRIDGE WORK ORDER SERVICES
WORK ORDER #2
S.R. 112 OVER DEEP CREEK

Wolverton & Associates INCORPORATED
5300 OAKBROOK PARKWAY
SUITE 150
NORCROSS, GA 30093
(770) 447-8999

DATE	REVISIONS	DATE	REVISIONS

GEORGIA DEPARTMENT OF TRANSPORTATION

CONCEPT ALIGNMENT

PROJECT: BRST-1574(18)
COUNTY: TURNER

DRAWING No.

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BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

SUFF. RATING: 44.2

Structure ID: 287-0020-0 — **Turner County**

Programming Data

201 Project No: S-215 (3)
202 Plans Available: 1
249 Prop. Proj No: BRST-1574 (18)
250 Approval Status: 0000
251 P.I. No: 442980
252 Contract Date: 02/01/2005
260 Seismic No: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 381
95 Roadway Imp. Cost: $ 63
96 Total Imp. Cost: $ 604
76 Imp. Length: 000562
97 Imp. Year: 1990
114 Future ADT: 002040 Year: 2018

Hydraulic Data

215 Waterway Data
Highwater Elev: 0168.1 Year: 1972
Flood Elev: 0000.0 Freq: 00
Avg. Streambed Elev: 0163.6
Drainage Area: 00000
Area of Opening: 006156
113 Scour Critical: 6
216 Water Depth: 05.0 Br Height: 17.0
222 Slope Protection: 6
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: 287-00112D-012.96N
* XReferen I.D. No: 000-000000-000.000

Measurements

* 29 ADT: 001360 Year: 1998
109 % Trucks: 16
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0027
* 49 Structure Length: 351
51 Br. Rdwy. Width: 23.8
52 Deck Width: 29.8
* 47 Tot. Horz. Cl: 23.8
50 Curb/Sdewlk Width: 2.0/2.0
32 Approach Rdwy Width: 024
* 229 Shlder Width:
Rear Lt: 6.0 Type: 8 Rt: 6.0
Fwrd Lt: 6.0 Type: 8 Rt: 6.0
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
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: 000
245 Deck Thickness Main: 7.5
Deck Thick Approach: 0.0
246 Overlay Thickness: 0.0
211 Tons Structural Steel: 45.0
212 Year Last Painted: Sup: 1996 Sub: 1996

Ratings

66 Inventory Type: 2 Rating: 13
64 Operating Type: 2 Rating: 29
231 Calculated Loads
H-Modified: 14 1
HS-Modified: 22 1
Type 3: 18 1
Type 3s2: 33 1
Timber: 25 1
Piggyback: 00 0
261 H Inventory Rating: 10
262 H Operating Rating: 15
67 Structural Evaluation: 2
58 Deck Condition: 5
59 Superstructure Condition: 8
* 227 Collision Damage: 0
60A Substructure Condition: 6
60B Scour Condition: 8
60C Underwater Condition: N
71 Waterway Adequacy: 8
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: 3
41 Struct Open, Posted, Cl: P
* 103 Temporary Structure: T

232 Posted Loads H-Modified: 14
HS-Modified: 22
Type 3: 18
Type 3S2: 33
Timber: 25
Piggyback: 00
253 Notification Date: 0000
253 Fed Notify Date: 0000 2

Report Date: 09/26/2000

SENT BY: 4-13- 1 ; 8:24AM ; 770 447 9070;# 3/ 4

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

SUFF. RATING: 44.2

Structure ID: 287-0020-0 — **Turner County**

Location & Geography

Structure I.D. No.: 287-0020-0
200 Bridge Information: 07

6A Feature Int.: DEEP CREEK
6B Critical Bridge: 0
7A Route Number Carried: SR00112
7B Facility Carried: SR 112
9 Location: 4.6 MI E OF ASHBURN
2 DOT District: 4
207 Year Photo: 1997

91 Inspection Frequency: 24 Date: 01/25/1999
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: 3
Designator: 1
Number: 00112
Direction: 0

16 Latitude: 31-43.7
17 Longitude: 83 -35.0

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: 012.78

208 Inspection Area: 04 Initials: LEM

Location I.D. No: 287-00112D-012.96N
XReferen I.D. No: 000-000000-000.000

* 104 Highway System: 0
* 26 Functional Classification: 07
* 204 Federal Route Type: S No: 01574
* 110 Truck Route: 0
206 School Bus Route: 1
217 Benchmark Elevation: 185.14
218 Datum: 1
* 19 Bypass Length: 4
* 20 Toll: 3
* 21 Maintenance: 01
* 22 Owner: 01
* 31 Design Load: 2
37 Historical Significance: 5
205 Congressional District: 02
* 27 Year Constructed: 1949
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: 3
* 43 Structure Type Main: 4 02
45 No. Spans Main: 012
44 Structure Type Appr: 3 3
46 No. Spans Appr: 0001
226 Bridge Curve Horz: 0 Vert: 0
111 Pier Protection: 0
107 Deck Structure Type: 1

108 Wearing Surface Type: 1
Membrane: 8
Protection: 8

Signs & Attachments

223 Expansion Joint Type: 02
242 Deck Drains: 1

243 Parapet Location: 0
Height: 0
Width: 0

238 Curb: 1.2 1
239 Handrail: 1 1
* 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: 3
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

* 248 County Continuity No: 00

SENT BY: 4-13- 1 ; 8:24AM ; 770 447 9070;# 2/ 4

3

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

File: Bridge Replacement: S.R. 112 over Deep Creek
BRST-1574(18), Turner County
P.I. No. 442980

From: James R. Chambers, State Consultant Design Engineer

To: Distribution

Subject: Minutes of Concept Meeting

The Concept Meeting for the S.R. 112 over Deep Creek Bridge replacement was held on May 23, 2001 at the Georgia Department of Transportation District 4 Conference Room. The attendees are listed below.

Attendees:	Larry Cook	HNTB	(770)956-5770
	Jennifer Murphy	HNTB	(770)956-5770
	Sam Bowyer	Wolverton & Assoc.	(770)447-8999
	Janice Bishop	Alltel	(229)423-4893
	Emory Giddens	GDOT Dist. 4 Utilities	(229)386-3288
	Danny Gay	GDOT Dist. 4 Traffic	(229)386-3435
	Zane Hutchinson	GDOT Dist. 4 Design	(229)386-3300
	Ronnie Hall	GDOT Fitzgerald Area Office	(229)426-5244
	Joe Sheffield	GDOT Dist. 4 Preconstruction	(229)386-3300
	Joe Burns	GDOT Dist. 4 Environmental	(229)386-3046
	Don Gaskins	GDOT Dist. 4 Plan. & Prog.	(229)386-3045
	Donnie Murphy	GDOT Dist. 4 Utilities	(229)386-3288

Mr. Bowyer opened the meeting by introducing the project and describing the scope, limits, etc. of the concept design. The project was then discussed, as follows.

- Mr. Giddens stated that Alltel was located on both sides of the road and Erwin EMC is on the East side. Alltel has aerial and buried lines on the west side and buried lines on the east side. The EMC is off the right of way but may be a problem. Alltel is non-reimbursable and will cost approximately $10,000 and EMC is reimbursable and will cost approximately $7500.
- Mr. Gay discussed the accident history and stated that he found only one accident between 1995 and 1998 at milepost 12.70. This accident was a sideswipe with one injury. The bridge is located at milepost 12.78.
- Mr. Sheffield asked for an option for permanent re-alignment to be studied. A single curve (1°) at the north end with a compound curve at the south end and re-align to the east (downstream side). If this option works, notify Ted Cashin with a memo and copy Mr.

Sheffield. The option can be written in the final concept report, another draft concept report will not be needed.

- Mr. Sheffield also asked for no super transition on the bridge.
- Mr. Burns spotted only wetland impacts. The existing bridge could be disposed in the NW quadrant.
- Mr. Gaskins gave a copy of the LPGA to Mr. Bowyer. Turner County supports the project but will not help with funding.
- Mr. Sheffield noted it is the contractor's option to use guardrail or portable median barrier on the detour. Most contractors elect to use the median barrier.
- Mr. Gaskins stated that the Right of Way for this project is scheduled for 2003 and construction is scheduled for 2004.
- Mr. Hall stated that the detour needs to be long enough to keep the toe out of the stream.
- Mr. Hutchinson asked to make sure the detour grading is away from the permanent guardrail.

01-904

Department of Transportation

State of Georgia
#2 Capitol Square, S.W.
Atlanta, Georgia 30334-1002

WAYNE SHACKELFORD
COMMISSIONER
(404)656-5206

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

STEVEN L. PARKS
DEPUTY COMMISSIONER
(404)656-5212

BILLY F. SHARP
TREASURER
(404)656-5224

August 6, 1999

LOCAL GOVERNMENT PROJECT AGREEMENT

In consideration of the proposed improvements, TURNER County agrees to provide or perform the following at no cost to the Georgia D.O.T. for project BRST-1574(18) TURNER CO., PI # 442980-:

BRIDGES
SR 112 @ DEEP CREEK 4.6 MI E OF ASHBURN

[ ] Provide all rights-of-way and/or easements needed for the construction of the project and remove existing structures or obstructions within the rights-of-way.

[x] Make all utility relocations, adjustments or betterments of publicly owned utilities that are in conflict with construction of this project. Reimburse Georgia D.O.T. for any damages paid to the contractor for delay of construction caused by a delay in relocating the publicly owned utilities.
[x] Relocate or adjust all privately owned utilities to clear construction of this project, including adjustments at railroad crossings if required.

[ ] Furnish detours, local borrow & waste pits as needed.

[X] We support this project but choose not to commit any funding, realizing this may delay the project until additional funding can be found.

This 7th *day of* September, *19* 99

APPROVED _____

City/County Official

cc: Utilities
File

NOTICE OF LOCATION AND DESIGN APPROVAL

PROJECT: BRST-1574(18) TURNER COUNTY
P. I. NO. 442980

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.

Date of Location and Design Approval: JUNE 28, 2001

Bridge project BRST-1574(18) will replace the structurally deficient bridge and approaches on SR 112 over Deep Creek in Miller Co. The bridge is located approximately five miles east of Ashburn Ga. The Structural Evaluation Rating for this bridge is 2, and the Sufficiency Rating is 44.2 requiring the bridge to be replaced. The project is 100% in Miller Co. and 100% within Congressional District # 2.

This project will be constructed on the existing alignment and an on site detour will be constructed for traffic use during construction.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Tommy Hicks
Tommy.hicks@dot.state.ga.us
231 Bowen's Mill Hwy.
Fitzgerald, GA 31750
Telephone (229) 426-5244

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Ted Cashin
Office of Consultant Design
Ted.cashin@dot.state.ga.us
Georgia Department of Transportation
No. 2 Capitol Square, Room 433
Atlanta, Georgia 30334
Telephone (404) 463-6133

Any written request or communication in reference to this project or notice SHOULD include the Project and P.I. Numbers as noted at the top of this notice.

Concept Report

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design

Project Number: BRST-1574(18)
County: Turner
P. I. Number: 442980

Federal Route Number: N/A
State Route Number: 112

Recommendation for approval:

DATE _____ _____
Project Manager

DATE _____ _____
State Consultant Design Engineer

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

DATE 6-15-01 Marta V. Rosenberg
State Transportation Planning Administrator

DATE_____ _____
State Transportation Programming Engineer

DATE_____ _____
State Environmental/Location Engineer

DATE_____ _____
State Traffic Operations Engineer

DATE_____ _____
District Engineer

DATE_____ _____
Project Review Engineer

DATE_____ _____
State Bridge Design Engineer

Department of Transportation
State of Georgia

INTERDEPARTMENTAL CORRESPONDENCE

RECEIVED JUN 15 2001

File: BRST-1574 (18) / Turner County
P.I. No. 442980

Office: Traffic Operations
Atlanta, Georgia
Date: June 11, 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 structurally deficient bridge on SR 112 over Deep Creek. This project is located 4.6 miles east of Ashburn.

The existing structure is 24 feet wide with a sufficiency rating of 44.2. The concept proposes to construct a new structure 40 feet wide for the two-lane roadway. The current ADT is 1400 vehicles and the design year, 2027, ADT is projected to be 2100 vehicles. The proposed bridge width is in accordance with MOG 4265-10 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 Keepler, State Environment/Location Engineer
James Chambers, State Consultant Design Engineer
David Mulling, State Review Engineer, w/ attachment
Marta Rosen, State Transportation Planning Administrator
Paul Liles, State Bridge & Structural Design Engineer
Chuck Hasty, TMC
General Files

Concept Report

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design

Project Number: BRST-1574(18)
County: Turner
P. I. Number: 442980

Federal Route Number: N/A
State Route Number: 112

Recommendation for approval:

DATE _____ _____
Project Manager

DATE _____ _____
State Consultant Design Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement 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 06/03/01 _____
State Traffic Operations Engineer

DATE_____ _____
District Engineer

DATE_____ _____
Project Review Engineer

DATE_____ _____
State Bridge Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: BRST-1574(18) Turner
P.I. Number 442980-

OFFICE: Engineering Services

DATE: June 20, 2001

FROM: David Mulling, Project Review Engineer

TO: Wayne Hutto, Assistant Director of Pre-construction

JUN 20 2001

SUBJECT: **CONCEPT REPORT**

We have reviewed the concept report submitted June 11, 2001 by the letter from James R. Chambers dated June 8, 2001, and have the following comment:

1. The Project Responsibilities Section of the report was incomplete.
2. When cost is the basis for eliminating a detour alternate, the estimated costs of that alternate should be provided in the report to allow comparison to the selected alternate.

The costs for the project are:

Construction	$1,715,000
Inflation	$ 343,000
E&C	$ 206,000
Reimbursable Utilities	$ 7,500
Right of Way	$ 22,500

DTM

c: Jim Chambers

SCORING RESULTS AS PER MOG 2440-2

Project Number:	County:	PI No.:
BRST-1574(18)	Turner	442980-

Report Date:	Concept By:
6/8/01	DOT Office: Consultant Design
☒ CONCEPT	
	Consultant: HNTB

Project Type: Choose One From Each Column			
	☐ Major	☐ Urban	☐ ATMS
	☒ Minor	☒ Rural	☒ Bridge
			☐ Building
			☐ Interchange
			☐ Intersection Improvement
			☐ Interstate
			☐ New Location
			☐ Widening & Reconstruction
			☐ Miscellaneous

FOCUS AREAS	SCORE	RESULTS
Presentation	90%	Project Responsibilities Section incomplete. Estimated costs for on-site detour alternate not provided.
Judgement	100%	
Environmental	100%	
Right of Way	100%	
Utility	100%	
Constructability	100%	
Schedule	100%	

Concept Report

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Office of Consultant Design

Project Number: BRST-1574(18)
County: Turner
P. I. Number: 442980

Federal Route Number: N/A
State Route Number: 112

Recommendation for approval:

DATE _____ _____
Project Manager

DATE _____ _____
State Consultant Design Engineer

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Improvement 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_____ _____
District Engineer

DATE 6/20/01 _____
Project Review Engineer

DATE_____ _____
State Bridge Design Engineer