ORIGINAL TO GENERAL FILES

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-052-1(13) Barrow County
P. I. No. 132970

OFFICE Preconstruction

DATE March 18, 2002

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:

David Mulling
Harvey Keepler
Jerry Hobbs
Herman Griffin
Michael Henry
Phillip Allen
Marta Rosen
Paul Liles
Ben Buchan
Larry Dent
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-052-1 (13) Barrow County
P.I. No. 132970

OFFICE Preconstruction

DATE March 4, 2002

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 11/Winder-Monroe Hwy over Marbruy Creek, 2.3 miles south of Winder, Georgia. The existing bridge, constructed in 1938, is load limited with a sufficiency rating of 44. State Route 11 at this location is a rural two lane roadway with 12' travel lanes with rural shoulders. This section of SR 11 is functionally classified as a urban minor arterial. Traffic is projected to be 8000 VPD and 14000 VPD in the years 2007 and 2027 respectively. The posted speed and the design speed are 55 MPH.

The construction proposes to construct a new 180' x 44' concrete bridge over Marbury 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 off-site detour. Replacing the bridge on existing location creates the least impacts to adjacent properties and provide the most cost efficient alternative.

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)	$1,726,000	$1,100,000	2005	FY-05
Right-of-Way	$ 7,000	$ 10,000		
Utilities*	LGPA	LGPA		

*Barrow County signed LGPA for utilities 8-12-99.

BRST-052-1 (13) Barrow County
March 4, 2002

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

CWH:JDQ/cj/klp

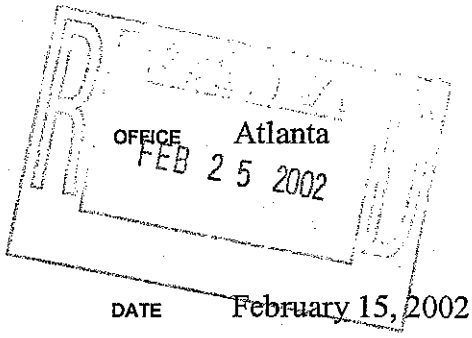
Attachment

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-052-1(13) Barrow County**
SR 11/Winder-Monroe Hwy. Over Marbury Creek
P.I. No. 132970-

FROM James B. Buchan, State Consultant Design Engineer

DATE February 15, 2002

TO Wayne Hutto, Assistant Director of Preconstruction

SUBJECT **PROJECT CONCEPT REPORT**

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

Those 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.

If you have any questions or require further information please call Ted Cashin at (404)463-6135 or Carol Bowler of Wilbur Smith Associates at (770) 936-8650.

Distribution:
David Mulling, Project Review Engineer
Harvey Keepler, State Environmental/Location Engineer
Phillip Allen, State Traffic Safety and Design Engineer
Marta Rosen, State Transportation Planning Administrator
Herman Griffin, Office of Financial Management Administrator
Larry Dent, District Engineer – Gainesville
Paul Liles, State Bridge & Structural Engineer

JBB:MBA:EJC

cc: Wilbur Smith Associates

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-052-1(13)
County: Barrow
P.I. Number: 132970

Federal Route Number: NA
State Route Number: 11

Recommendation for approval:

DATE 2-15-02 _____ Project Manager

DATE 2-18-02 _____ State Consultant Design Engineer

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

_____ DATE _____ State Transportation Planning Administrator

_____ DATE _____ Office of Financial Management Administrator

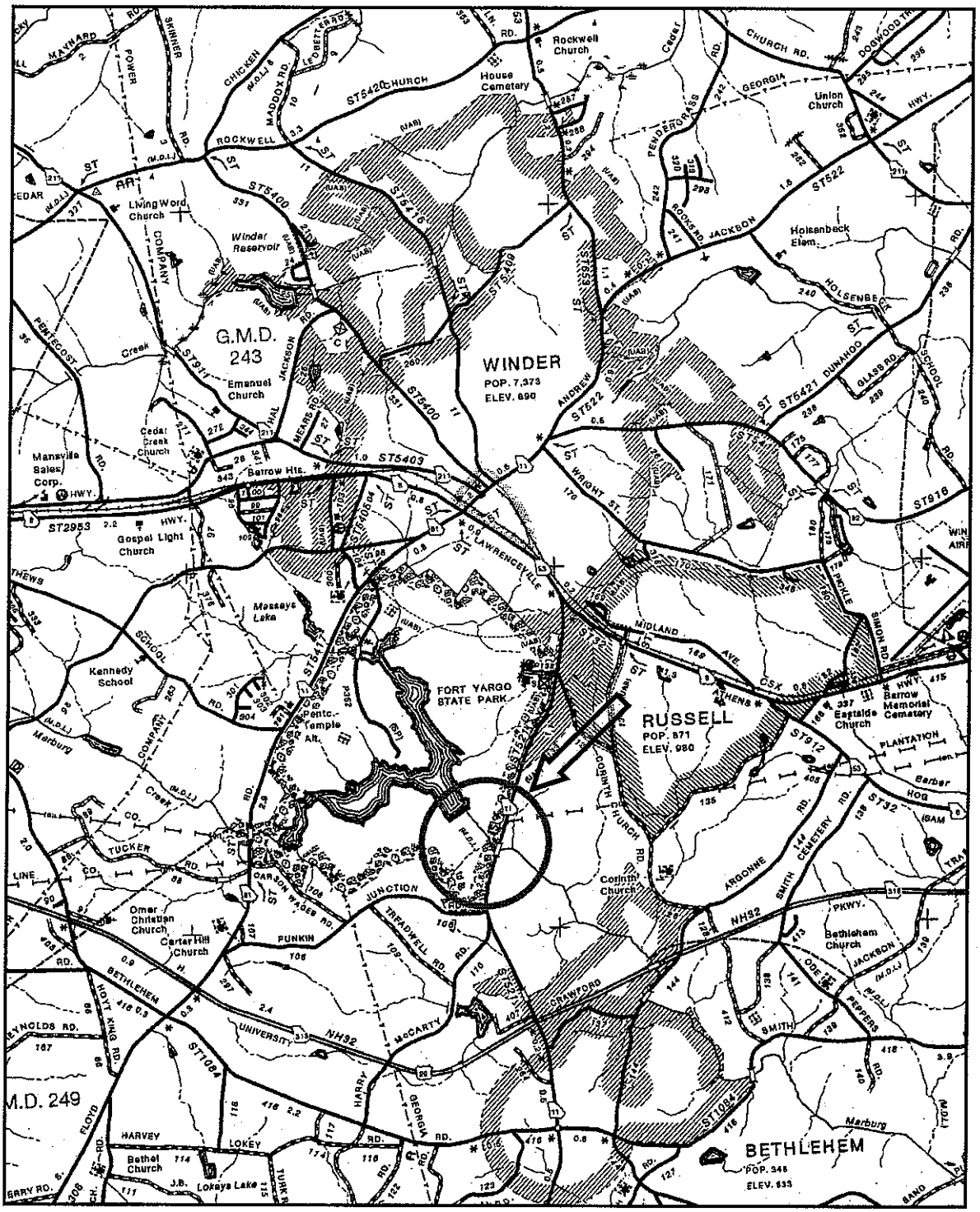
_____ DATE _____ State Environmental / Location Engineer

_____ DATE _____ State Traffic Safety and Design Engineer

_____ DATE _____ District Engineer

_____ DATE _____ Project Review Engineer

_____ DATE _____ State Bridge & Structural Design Engineer



Scale: 1 inch = 1 mile

North

Location Map

Project: BRST-052-1(13) Barrow County **PI No.:** 132970-
Description: SR 11/Winder-Monroe Hwy. Over Marbury Creek

PROJECT BRST-052-1(13), BARROW COUNTY
P.I. NO 132970
Bridge Replacement
SR 11 Bridge over Marbury Creek

The proposed project, Bridge project BRST-052-1(13), will replace the functionally obsolete SR 11 bridge over Marbury Creek. The two-lane bridge is functionally classified as an urban minor arterial, was constructed in 1938 and is not a designated bike route. The project would replace the current 27 foot wide bridge with a 44-foot bridge. The desired width is based on Georgia MOG 4265-10. This project is not associated with any other projects and has independent utility. The 1999 AADT is 7,800 vehicles, which includes school bus traffic. Traffic in 2027 is projected at 14,000 AADT. The 2027 AADT is based on the assumption that the Winder Bypass will be in place.

This project does not disproportionately burden or benefit any particular community. The Census population for Barrow County consists of between 41% and 60 % minority and 21%-40% of residents are below the poverty level. The project is considered to be a benefit to all of the communities that use the bridge because of the improved bridge condition.

The Structural Evaluation Rating for the bridge is a 4 and the Sufficiency Rating is a 44.0. 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 requires replacement. In accordance with MOG 2450-1, the Structural Evaluation Rating and the Sufficiency Rating of the bridge requires the bridge be replaced.

PROJECT CONCEPT REPORT

Description of the proposed project: *The proposed project is located in Barrow County on SR 11/Winder-Monroe Highway over Marbury Creek, 2.3 miles south of Winder. The project consists of replacing a structurally deficient bridge over Marbury Creek on existing location while providing an offsite detour during construction. The City of Winder sewage treatment plant and Fort Yargo State Park are located adjacent to the bridge on the ~~northwest~~ side of State Route 11. The proposed project length is 0.180 miles.*

Is the project located in a Non-attainment area? ____**Yes** __X__**No**

PDP Classification: Major_____ Minor___X___

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

Functional Classification: *Urban Minor Arterial*

U.S. Route Number(s): N/A **State Route Number(s):** 11

Traffic (AADT):

Current Year: (2007) 8000 Design Year: (2027) 14000

Existing design features:

- Typical Section: *Two, 12' Lanes with 2' paved shoulders and 6' grassed shoulders.*
- Posted Speed: 55 mph Maximum degree of curvature: Tangent
- Maximum grade: 5.03% Mainline 2.3% Driveways
- Width of right of way: 100 ft.
- Major structures:
  - *135' x 27' bridge over Marbury Creek on State Route 11. Three spans @ 45'-00"*
    Struct. ID: 013-0003-0 *Sufficiency rating: 44.0*
- Major interchanges or intersections along the project: *None*
- Existing length of roadway segment: 0.142
  Beginning mile log for county segment: 4.13

Proposed Design Features:

- Proposed typical section(s): *The proposed roadway will consist of two 12' lanes with 2' paved shoulder and 8' grassed shoulders with side slopes.*
- Proposed Design Speed Mainline: 55 mph
- Proposed Maximum grade Mainline: 5.03% Maximum grade allowable: 6%
- Proposed Maximum grade Side Street: *N/A* Maximum grade allowable: *N/A*
- Proposed Maximum grade driveway: 10%
- Proposed Maximum degree of curve: Tangent Maximum degree allowable: 6°00'00"
- Right of Way
  - Width: *Varies 100'-140'*
  - Easements: Temporary( ), Permanent(X), 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 will be approximately 180' long and 44' wide.*
  - Retaining Walls: *None*
- Major intersections and interchanges: *None*
- Traffic control during construction: *An offsite State Route detour will be provided during construction of the proposed bridge. The total detour mileage from begin bridge to end bridge is 9.8 miles. There are several acceptable local roads that can serve as alternates to the local traffic.*
- Design Exceptions to controlling criteria anticipated:

	UNDETERMINED	YES	NO
HORIZ 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: *Possible involvement with waters of the US.*
- Level of Environmental Analysis:
  - Are Time Saving Procedures Appropriate? Yes (X), No ( )
  - Categorical Exclusion Anticipated? Yes (X), No ( )
  - Environmental Assessment/Finding of No Significant Impact: Yes ( ), No (X)
  - Environmental Impact Statement (EIS): Yes ( ), No (X)

- Utility Involvements:
  - Telephone: *Bell South*
  - Power: *GA Power, Jackson EMC, Walton EMC*
  - Gas: *City of Winder*
  - Cable TV: *Adelphia*
  - Water: *City of Winder*

Project Responsibilities:

- Design: *Earth Tech*
- Right of way acquisition: *GDOT*
- Relocation of utilities: *Barrow County is responsible for reimbursable utilities. LGPA signed 8-12-99.*
- Letting to contract: *GDOT*
- Supervision of construction: *GDOT*
- Providing material pits: *Contractor*
- Providing detours: *GDOT*

Coordination:

- Concept Meeting date(Minutes Attached): *February 5, 2002*
- P.A.R. meetings, dates, and results: *None*
- FEMA, USCG and/or TVA: *None*
- Public involvement: *Public Hearing for off-site Detour to be scheduled at a later date.*
- Local government comments: *None*
- Other projects in the area: *Future Plans for a Winder Bypass*
- Other coordination to date: *None*

Scheduling – Responsible Parties' Estimate

Time to complete the environmental process:	6 Months
Time to complete preliminary construction plans:	4 Months
Time to complete right of way plans:	3 Months
Time to complete the section 404 permit:	4 Months
Time to complete final construction plans:	3 Months
Time to complete the purchase right-of-way:	9 Months
Other major items that will affect project schedule:	None

Other alternates considered:

Alternate 1 – *Replace bridge on existing location, providing an onsite detour with a detour bridge. This alternate was eliminated because a detour to the west would impact the City of Winder sewage treatment plant. A detour to the east would impact existing water reclamation spray fields. An onsite detour to either side of SR 11 would increase the project length from 0.180 miles to 0.43 miles, increase right of way impacts to adjacent properties, and increase the project cost by approximately $758,000.*

Alternate 2 – *Rehabilitation of existing bridge. This alternate was eliminated because FHWA has determined that any structure with a sufficiency rating less than 50 should be replaced. The sufficiency rating for this bridge is 44.0.*

Comments: *It is recommended to replace the structurally deficient bridge on existing location and provide an offsite detour on nearby State Route 81. Replacing the bridge on existing location creates the least impacts to adjacent properties and provides the most cost and time efficient alternative.*

Attachments:

1. Cost Estimates:
    a. Construction including E&C
    b. Right of Way, and
    c. Utilities.
2. On-Site Detour Cost Estimate,
3. Sketch location map,
4. Typical sections,
5. Bridge Inventory
6. Concept Meeting Minutes
7. Location and Design Notice
8. Preliminary Pavement Design
9. Traffic Counts

PRELIMINARY COST ESTIMATE

PROJECT NUMBER: BRST-052-1(13) COUNTY: BARROW

DATE: December 27, 2001 ESTIMATED LETTING DATE:

PREPARED BY: BWH PROJECT LENGTH: 0.18 miles

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

PROJECT COST		
A. RIGHT-OF-WAY:		
1. PROPERTY (LAND & EASEMENT) 0.646 AC	$	6459
2. DISPLACEMENTS; RES: 0, BUS: 0, M.H.: 0	$	
3. OTHER COST (ADM./COST, INFLATION)	$	
SUBTOTAL: A	$	**6,459**
B. REIMBURSABLE UTILITIES:		
1. RAILROAD	$	
2. TRANSMISSION LINES	$	
3. SERVICES	$	8000
SUBTOTAL: B	$	**8,000**
C. CONSTRUCTION:		
1. MAJOR STRUCTURES		
a. BRIDGES (180'X44')		
	$	554400
	$	
SUBTOTAL: C-1.a	$	554,400
b. OTHER		
	$	-
	$	
SUBTOTAL: C-1	$	**554,400**
2. GRADING AND DRAINAGE		
a. EARTHWORK		
Borrow/Excavation 4640 CY @ $7.5	$	34,800
SUBTOTAL: C-2a	$	34,800

b. DRAINAGE				
1) Side Drain Pipe	25	LF @ $21	$	525
2) Storm drain pipe	70	LF @ $44	$	3,080
3) Longitudinal System (incl. catch basins)		LF @ $0	$	-
4) Safety End Sections	4	EA @ $280	$	1,120
5) Perforated Underdrain		LF @ $6	$	-
6) Temporary Pipe Slope Drain		LF @ $24	$	-
SUBTOTAL: C-2.b			$	4,725
SUBTOTAL: C-2			$	**39,525**
3. BASE AND PAVING:				
a. AGGREGATE BASE	880	TN @ $24	$	21,120
b. ASPHALT PAVING (Mainline & Cross-Roads):				
19 mm Superpave	166	Tons @ $43	$	7,138
25 mm Superpave	333	Tons @ $37	$	12,321
12.5 mm Superpave	143	Tons @ $46	$	6,578
SUBTOTAL: C-3.b			$	47,157
c. CLASS "B" CONCRETE		CY @ $146	$	-
d. OTHER (Leveling, Tack Coat, Milling)			$	300
e. AGGREGATE SURFACE COURSE	5	Tons @ $19	$	95
SUBTOTAL: C-3			$	**68,672**

4. EROSION CONTROL				
a. SILT FENCE				
1. TYPE A		650	LF @ $3.5	$ 2,275
2. TYPE B			LF @ $2.6	$ -
3. TYPE C		500	LF @ $5.3	$ 2,650
				$ 4,925
b. RIP RAP		220	SF @ $30	$ 6,600
c. PLASTIC FILTER FABRIC		220	SF @ $5.8	$ 1,276
d. EROSION CONTROL MATS		800	SY @ $5	$ 4,000
SUBTOTAL: C-4				$ **16,801**
5. LUMP ITEMS				
a. GRASSING				$ 7510
b. CLEARING AND GRUBBING				$ 10000
c. EROSION CONTROL				$ 10000
d. TRAFFIC CONTROL				$ 50000
SUBTOTAL: C-5				$ **77,510**
6. MISCELLANEOUS:				
a. LIGHTING				$
b. SIGNING - MARKING				$ 1500
c. GUARDRAIL				
W Beam		175	LF @ $12	$ 2,100
T Beam		83	LF @ $40	$ 3,320
Anchors	TYPE 12	2	@ $1600	$ 3,200
	TYPE 1	2	@ $450	$ 900
SUBTOTAL: C-6.c				$ 9,520
d. SIDEWALK				$
e. MEDIAN / SIDE BARRIER				$
f. APPROACH SLABS		310	SY @ $110	$ 34,100
g. REMOVAL				
Bridges				$ 60000
SUBTOTAL: C-6.g				$ 60,000
h. OTHER				$
SUBTOTAL: C-6				$ **105,120**
7. SPECIAL FEATURES				
SUBTOTAL: C-7				$ -

SUMMARY		
A. RIGHT-OF-WAY	$	6,459
B. REIMBURSABLE UTILITIES	$	8,000
C. CONSTRUCTION		
1. MAJOR STRUCTURES	$	554,400
2. GRADING AND DRAINAGE	$	39,525
3. BASE AND PAVING	$	68,672
4. EROSION CONTROL	$	16,801
5. LUMP ITEMS	$	77,510
6. MISCELLANEOUS	$	105,120
7. SPECIAL FEATURES	$	-
SUBTOTAL CONSTRUCTION COST	$	862,028
INFLATION (5% PER YEAR)	$	43,101
NUMBER OF YEARS		1
E. & C. (10%)	$	90,513
TOTAL CONSTRUCTION COST	$	**995,642**
GRAND TOTAL PROJECT COST	$	**1,010,101**

ON-SITE DETOUR PRELIMINARY COST ESTIMATE

PROJECT NUMBER: BRST-052-1(13) COUNTY: BARROW

DATE: February 19, 2002 ESTIMATED LETTING DATE:

PREPARED BY: BWH DETOUR LENGTH: 0.43 Miles

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

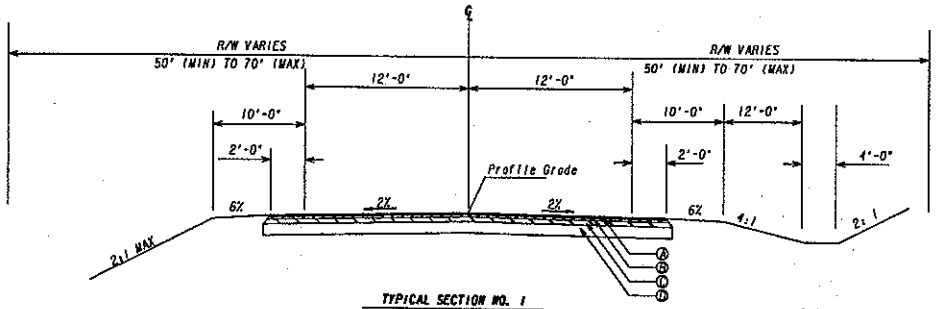
PROJECT COST (Alternate 1)			
A. RIGHT-OF-WAY:			
1. PROPERTY (LAND & EASEMENT) 3.15 AC		$	32000
2. DISPLACEMENTS; RES: 0, BUS: 0, M.H.: 0		$	
3. OTHER COST (ADM./COST, INFLATION)		$	
SUBTOTAL: A		$	**32,000**
B. REIMBURSABLE UTILITIES:			
1. RAILROAD		$	
2. TRANSMISSION LINES		$	
3. SERVICES		$	10000
SUBTOTAL: B		$	**10,000**
C. CONSTRUCTION:			
1. MAJOR STRUCTURES			
a. Detour Bridge		$	60000
b. Proposed Mainline Bridge(180'X44')		$	554400
		$	
SUBTOTAL: C-1		$	**614,400**
2. GRADING AND DRAINAGE			
a. EARTHWORK			
Detour Borrow/Excavation	1500 CY @ $7.5	$	11,250
Mainline Borrow/Excavation	4600 CY @ $7.5	$	34,500
SUBTOTAL: C-2.a		$	**45,750**

b. DRAINAGE				
1) Side Drain Pipe(Detour)	100	LF @ $21	$	2,100
a. Mainline	25	LF @ $21	$	525
2) Storm drain pipe (for Mainline)	70	LF @ $44	$	3,080
3) Longitudinal System (incl. catch basins)		LF @ $0	$	-
4) Safety End Sections (Detour)	2	EA @ $280	$	560
a. Mainline	4	EA @ $280	$	1,120
5) Perforated Underdrain	300	LF @ $6	$	1,800
6) Temporary Pipe Slope Drain		LF @ $24	$	-
SUBTOTAL: C-2.b			$	9,185
SUBTOTAL: C-2			$	**54,935**
3. BASE AND PAVING:				
a. AGGREGATE BASE (Detour)	4200	TN @ $24	$	100,800
b. ASPHALT PAVING (Detour):				
19 mm Superpave	680	Tons @ $43	$	29,240
25 mm Superpave	1365	Tons @ $37	$	50,505
9.5 mm Superpave	563	Tons @ $44	$	24,772
SUBTOTAL: C-3.b			$	205,317
c. AGGREGATE BASE (Mainline)	880	TN @ $24	$	21,120
d. ASPHALT PAVING (Mainline):				
19 mm Superpave	166	Tons @ $43	$	7,138
25 mm Superpave	333	Tons @ $37	$	12,321
9.5 mm Superpave	143	Tons @ $44	$	6,292
SUBTOTAL: C-3.d			$	252,188
e. OTHER (Leveling, Tack Coat, Milling)			$	400
f. AGGREGATE SURFACE COURSE	5	Tons @ $19	$	95
SUBTOTAL: C-3			$	**710,188**

4. EROSION CONTROL				
a. SILT FENCE (Detour)				
1. TYPE A		585	LF @ $3.5	$ 2,048
2. Baled Straw		300	LF @ $2.6	$ 780
3. TYPE C		400	LF @ $5.3	$ 2,120
b. SILT FENCE (Mainline)				
1. TYPE A		650	LF @ $3.5	$ 2,275
TYPE B			LF @ $2.6	$ -
3. TYPE C		500	LF @ $5.3	$ 2,650
c. RIP RAP(Detour)		250	SF @ $30	$ 7,500
d. RIP RAP (Mainline)		220	SF @ $30	$ 6,600
e. PLASTIC FILTER FABRIC(Detour)		250	SF @ $5.8	$ 1,450
f. PLASTIC FILTER FABRIC(Mainline)		220	SF @ $5.8	$ 1,276
g. EROSION CONTROL MATS(Detour)		720	SY @ $5	$ 3,600
e. EROSION CONTROL MATS(Mainline)		800	SY @ $5	$ 4,000
SUBTOTAL: C-4				$ **30,299**
5. LUMP ITEMS				
a. GRASSING				$ 8000
b. CLEARING AND GRUBBING				$ 10000
c. EROSION CONTROL				$ 10000
d. TRAFFIC CONTROL				$ 30000
SUBTOTAL: C-5				$ **58,000**
6. MISCELLANEOUS:				
a. LIGHTING				$
b. SIGNING - MARKING				$ 1500
c. GUARDRAIL(Detour)				
W Beam		600	LF @ $12	$ 7,200
T Beam		88	LF @ $40	$ 3,520
Anchors	TYPE 12	2	@ $1600	$ 3,200
	TYPE 1	2	@ $450	$ 900
d. GUARDRAIL(Mainline)				
W Beam		175	LF @ $12	$ 2,100
T Beam		83	LF @ $40	$ 3,320
Anchors	TYPE 12	2	@ $1600	$ 3,200
	TYPE 1	2	@ $450	$ 900
SUBTOTAL: C-6				$ **25,840**

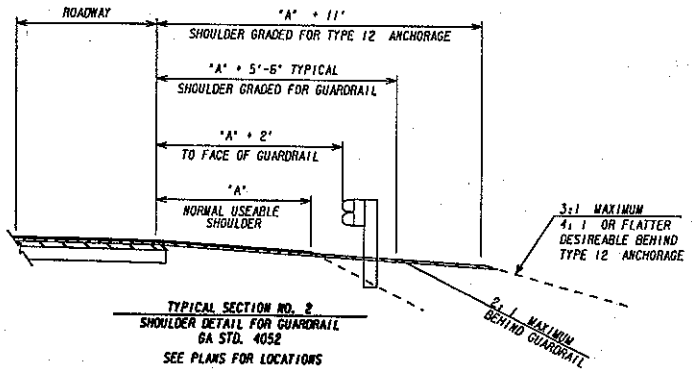
SUMMARY		
A. RIGHT-OF-WAY	$	32,000
B. REIMBURSABLE UTILITIES	$	10,000
C. CONSTRUCTION		
1. MAJOR STRUCTURES	$	614,400
2. GRADING AND DRAINAGE	$	54,935
3. BASE AND PAVING	$	710,188
4. EROSION CONTROL	$	30,299
5. LUMP ITEMS	$	58,000
6. MISCELLANEOUS	$	25,840
SUBTOTAL CONSTRUCTION COST	$	1,493,662
INFLATION (5% PER YEAR)	$	74,683
NUMBER OF YEARS		
E. & C. (10%)	$	156,834
TOTAL CONSTRUCTION COST	$	**1,725,179**
GRAND TOTAL PROJECT COST(Alternate 1)	$	**1,767,179**

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	BRST-052-1(13)		



TYPICAL SECTION NO. 1
NORMAL CROWN

**NOT TO SCALE



TYPICAL SECTION NO. 2
SHOULDER DETAIL FOR GUARDRAIL
GA STD. 4052
SEE PLANS FOR LOCATIONS

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

* REQUIRES GUARDRAIL

REQUIRED PAVEMENT

(A) 165 LBS/SY RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP2 ONLY, INCL BITUM & H LIME (SUPERPAVE LEVEL "B")
(B) 220 LBS/SY RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM & H LIME (SUPERPAVE LEVEL "B")
(C) 440 LBS/SY RECYCLED ASPH CONC 25 MM SUPERPAVE, GP1 OR 2, INCL BITUM & H LIME (SUPERPAVE LEVEL "A")
(D) 12" GRADED AGGREGATE BASE

EARTH TECH
1455 OLD ALABAMA ROAD, SUITE 170
ROSWELL, GEORGIA 30076
(770) 990-1400

DATE	REVISIONS	DATE	REVISIONS

GEORGIA
DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
PROJECT: SR 11 OVER MARBURY CREEK
COUNTY: BARROW
DATE:
DRAWING NUMBER 3-0

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06-FEB-2002 14:28

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 013-0003-0 **Barrow County** SUFF. RATING: 44.0

Location & Geography

* Structure I.D. No.: 013-0003-0
200 Bridge Information: 06

* 6A Feature Int.: MARBURY CREEK
* 6B Critical Bridge: 0
* 7A Route Number Carried: SR00011
* 7B Facility Carried: WINDER-MONROE HWY.
* 9 Location: 2.3 MI SOUTH OF WINDER
2 DOT District: 1
207 Year Photo: 2000

* 91 Inspection Frequency: 24 Date: 01/19/2000
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: 2
Designator: 1
Number: 00029
Direction: 0

* 16 Latitude: 33-57.5
* 17 Longitude: 83 -43.2

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: 004.13

* 208 Inspection Area: 01 Initials: GMC

* Location I.D. No: 013-00011D-004.25N
* XReferen I.D. No: 000-000000-000.000

* 104 Highway System: 0
* 26 Functional Classification: 16
* 204 Federal Route Type: F No: 052-1
* 110 Truck Route: 0
206 School Bus Route: 1
217 Benchmark Elevation: 0.00
218 Datum: 0
* 19 Bypass Length: 4
* 20 Toll: 3
* 21 Maintenance: 01
* 22 Owner: 01
* 31 Design Load: 2
37 Historical Significance: 5
205 Congressional District: 11
* 27 Year Constructed: 1938
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: A-O-M-O
259 Pile Encasement: 3
* 43 Structure Type Main: 3 02
45 No. Spans Main: 003
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

Signs & Attachments

223 Expansion Joint Type: 02
242 Deck Drains: 1

243 Parapet Location: 0
Height: 0
Width: 0

238 Curb: 1.1 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: 14

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 013-0003-0 **Barrow County** SUFF. RATING: 44.0

Programming Data

201 Project No: WPA-148
202 Plans Available: 1
249 Prop. Proj No: BRST-052-1 (13)
250 Approval Status: 0000
251 P.I. No: 132970
252 Contract Date: 02/01/2004
260 Seismic No: 00000
75 Type Work: 34 1
94 Bridge Imp. Cost: $ 167
95 Roadway Imp. Cost: $ 46
96 Total Imp. Cost: $ 279
76 Imp. Length: 000346
97 Imp. Year: 1990
114 Future ADT: 012945 Year: 2018

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: 3.8 Br Height: 27.5
222 Slope Protection: 1
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: 013-00011D-004.25N
* XReferen I.D. No: 000-000000-000.000

Measurements

* 29 ADT: 008630 Year: 1998
109 % Trucks: 12
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0045
* 49 Structure Length: 135
51 Br. Rdwy. Width: 23.7
52 Deck Width: 26.5
* 47 Tot. Horz. Cl: 23.7
50 Curb/Sdewlk Width: 0.5/0.5
32 Approach Rdwy Width: 029
* 229 Shlder Width:
Rear Lt: 2.8 Type: 2 Rt: 2.7
Fwrd Lt: 2.6 Type: 2 Rt: 3.1
Pvment Width:
Rear: 23.1 Type: 2
Fwrd: 23.7 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: 7.0
Deck Thick Approach: 0.0
246 Overlay Thickness: 0.0
211 Tons Structural Steel: 28.0
212 Year Last Painted: Sup: 1990 Sub: 0000

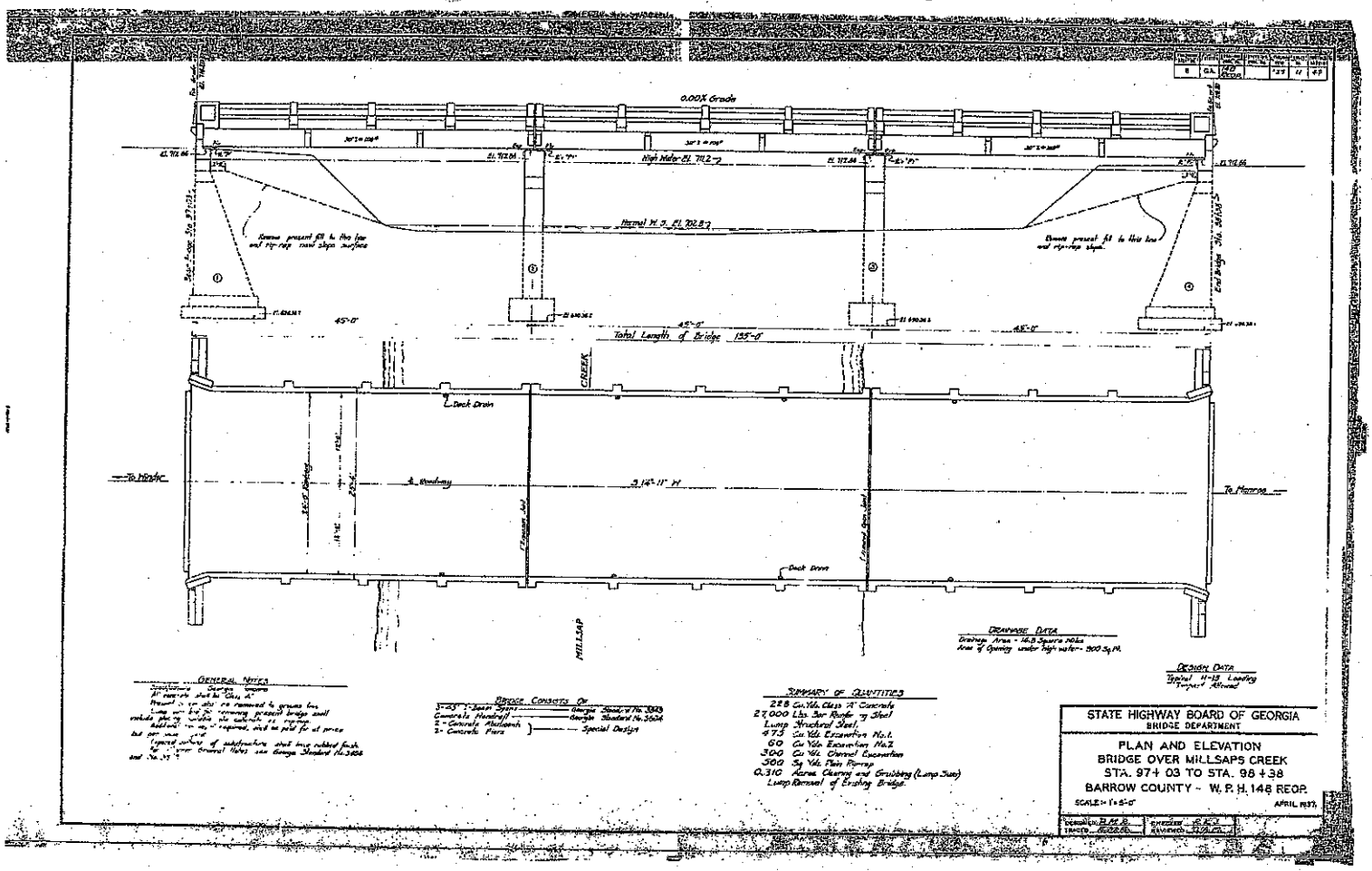
Ratings

66 Inventory Type: 2 Rating: 20
64 Operating Type: 2 Rating: 32
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 24 0
Type 3s2: 37 0
Timber: 35 0
Piggyback: 00 0
261 H Inventory Rating: 15
262 H Operating Rating: 24
67 Structural Evaluation: 4
58 Deck Condition: 5
59 Superstructure Condition: 6
* 227 Collision Damage: 0
60A Substructure Condition: 5
60B Scour Condition: 7
60C Underwater Condition: N
71 Waterway Adequacy: 9
61 Channel Protection Cond: 7
68 Deck Geometry: 2
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
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: 0000
253 Fed Notify Date: 0000 0


0.00% Grade
High Water El. 712.2
Normal W. S. El. 702.8
Remove present fill to this line and rip-rap road slope surface
Remove present fill to this line and rip-rap slope
45'-0"
45'-0"
45'-0"
Total Length of Bridge 135'-0"
CREEK
Ditch Drain
To Hiram
To Monroe
Ditch Drain
MILLSAP
DRAINAGE DATA
Drainage Area - 16.5 Square miles
Area of Opening under High water- 900 Sq. Ft.
DESIGN DATA
Typical H-15 Loading
Impact Allowed
GENERAL NOTES
BRIDGE CONSISTS OF
3-45'-0" I-Beam Spans — Georgia Standard No. 3945
Concrete Handrail — Georgia Standard No. 3606
2-Concrete Abutments
3-Concrete Piers — Special Design
SUMMARY OF QUANTITIES
228 Cu. Yds. Class "A" Concrete
27,000 Lbs. Bar Reinforcing Steel
Lump Structural Steel
473 Cu. Yds. Excavation No. 1
60 Cu. Yds. Excavation No. 2
300 Cu. Yds. Channel Excavation
300 Sq. Yds. Plain Riprap
0.310 Acres Clearing and Grubbing (Lump Sum)
Lump Removal of Existing Bridge.
STATE HIGHWAY BOARD OF GEORGIA
BRIDGE DEPARTMENT
PLAN AND ELEVATION
BRIDGE OVER MILLSAPS CREEK
STA. 97+ 03 TO STA. 98 +38
BARROW COUNTY - W. P. H. 148 REOP.
SCALE: 1" = 5'-0"
APRIL 1937

EARTH TECH
A tyco INTERNATIONAL LTD. COMPANY

Earth Tech
1455 Old Alabama Road
Roswell, Georgia 30076
(770) 990-1400 Fax (770) 990-1503

MEETING MINUTES

DATE: February 5, 2001

PROJECT: BRST-052-1(13)
P.I. No. 132970
SR 11/Winder Monroe Highway Over Marbury Creek

SUBJECT: Concept Team Meeting Minutes

ATTENDEES:		
Billy Cantrell	GDOT-Traffic Ops	(770) 532-5532
Ted Cashin	GDOT-OCD	(404) 532-5532
Neil Counts	City of Winder	(770) 867-3106
Randall L. Davis	GDOT Area Engineer	(770) 339-2308
Eddie Elder	Barrow County	(770) 307-3010
Neil Kantner	GDOT-District Location	(770) 532-5580
Todd Long	GDOT-District Preconstruction	(770) 532-5520
Russell Murry	GDOT-District Construction	(770) 532-5532
Henry O'Kelly	GDOT	(770) 532-5510
Larry Price	Barrow County	(770) 307-3113
Robbie Robinson	Plantation Pipe Line	(770) 751-4258
Britt Hennessey	Earth Tech	(770) 990-1400
Scott Gero	Earth Tech	(770) 990-1400

Notes prepared by: Britt Hennessey, Earth Tech

A Concept Team Meeting was held on the above project on February 5, 2002 at the District 1 office in Gainesville, Georgia. Todd Long called the meeting to order at 11:00 AM. Britt Hennessey then presented the project. The following comments/discussions were noted:

Ms. Hennessey presented the conceptual layout and showed that the existing, structurally deficient bridge will be replaced on its existing alignment. Traffic will be detoured during construction on nearby State Route 81. The proposed roadway profile will be raised 1.3'.

Ms. Hennessey noted some discrepancies with the given Need and Purpose Statement. The document states that the proposed bridge width is 40'. It also indicates that the functional classification of State Route 11 is a rural minor arterial street.

Neil Kantner and Todd Long noted that their records show the functional classification as an urban minor arterial. Earth Tech will update the concept report to reflect this.

Ted Cashin clarified that the proposed bridge width shall remain as stated in the concept report as 44'. This width comes from the Georgia Manual of Guidance 4265-10.

Todd Long asked that responsibility of providing detours be changed from Barrow County to GDOT in the concept report.

Ms. Hennessey presented the on-site detour alternates. These alternates would increase the right of way and utility impacts. They would also possibly affect the City of Winder Sewage Treatment Plant spray fields.

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MEETING MINUTES

Neil Counts indicated that there are water reclamation facility spray fields on the eastern side of State Route 11. Mr. Counts will identify and send the existing location of these spray fields to Earth Tech. Mr. Counts also said that cross drains run from the south end of the treatment plant to the spray fields (across State Route 11).

Everyone was in agreement that the off-site detour is the best alternative. The meeting attendees discussed the benefits of an offsite detour. They are as follows:

- Avoids possible permitting process associated with impacting the spray fields.
- Least expensive alternative
- 9-12 month construction time versus a 15-20 month construction time
- Provides least amount of right of way and utility impacts
- Forces trucks to utilize State Route 81 instead of State Route 11, which is what the county intends them to use anyway.

Ted Cashin said that a public detour meeting must be scheduled.

The group decided it is desired to have the construction time encompass the summer months to minimize the duration of time of impacts to school traffic. There was some concern that the additional traffic detoured from State Route 11 and placed on State Route 81 will create an undesirable Level Of Service on State Route 81 when school is in session. There are two schools located on State Route 81.

Earth Tech will change the format of the concept report to reflect all of the addenda to the PDP.

Earth Tech will provide a complete cost estimate for the on-site detour and add the length of the offsite detour to the concept report.

Earth Tech will verify Traffic Control cost for the off-site detour.

Earth Tech will add Erosion Control Mats to the cost estimate for the project.

Earth Tech will call Ned O'Kelly to verify the utilities on this project.

PRECONSTRUCTION STATUS REPORT
FROM TII

PI NUMBER / PROJECT	COUNTY	DESCRIPTION	READY TO LET
132970-	BARROW	SR 11/WINDER-MONROE HWY. @ MARBURY CREEK SO OF WINDER	FY05

BRST-052-1(13) *US:*

APPROVED DATES	*PE DATE:*	9910	*RW DATE:*	2003	*CST DATE:*	2005
PROPOSED DATES	*TII PE DATE:*	9910	*TII RW DATE:*	2003	*TII CST DATE:*	2005
APPROVED COSTS	*PE$:*	$20,000	*RW COST:*	$10,000	*CST EST:*	$1,100,000
PROPOSED COSTS	*TII PE$:*	$20,000	*TII RW$:*	$10,000	*TII CST$*	$1,100,000
	REF PROJ:		*TWIN PROJ:*		*EST DATE:*	10/23/00

PROJ MGR: T. CASHIN
PROG TYPE: REPLACEMENT
CONCEPT:
P.E. PROJECT:
LENGTH: 0.22 *NN:* 42.0W *FIELD DIST:* 1 *STATUS:* PRECST *TIP #:* *UAC:* 0 *FUND 1:* Q10

SCHED START	SCHED FINISH	ACTIVITY	ACTUAL START	ACT/EST FINISH	PCT	DISTRICT COMMENTS
		DEFINE CONCEPT RPT:			00	NEED CONSULTANT SCHEDULE
		CONCEPT MEETING:				
		SUB RTP TO ENG SERVICES:				
		REC ENG SERV APPROVAL:				
		MGT APPROV CPT REPORT:			00	
		ENVIRONMENTAL:	7/1/01	12/31/01	00	
		PUBLIC HEARING:				
		PHOTO MAPPING:			01	
		FIELD SURVEY:			00	
		FINAL ALT APPRV:				
		PRELIM FPR HELD:				
		PREL RDWY RW PLANS:			00	
		SECURE 404 PROCESS:			00	
		LOC DZN APPRV:			00	
		FINAL CST PLANS:			00	
		APPRV RW PLANS:			00	
		STAKE RW:			00	
		FINAL FPR HELD:				
		LAB RECV SOIL REQUEST:				
		PREL HYDR PLANS:			00	
		LAB BFI REQUEST:			00	
		BRIDGE PLANS:			00	
		U.S.T.s:			00	
					00	

BIKE PROVISIONS INCLUDED?: *MEASUREMENT SYSTEM:* *CONSULTANT:* C *UT EST:* $0.00

PDD : APRIL BOARD ADDITION: ASSIGNED CONSULTANT TASK FORCE 4/30/99
PLANNING:
DZN CMT:
UTIL CMT:
LGPA: BARROW SGN UTILITIES 8-12-99.
LOC CMT: BRIDGE
EIS: PP-CONSULT TASK FORCE | AIELLO
404: CONSULTANT TASK FORCE-NW 23 EXPECTED
TS: CAH|BR REPL PRJCT|S&M PLNS N/R|031601|$

ROW:
RR
PITS:
UST CMT:
BR CMT: BRIDGE REQUIRED

R/W INFORMATION:

RW STATUS: PRECST *NUMBER OF PARCELS TO BE ACQUIRED:* 0 *ACQUIRED BY:* DOT *ACQMGR*
UNDER-REVIEW: 0 *RELEASED* 0 *OPT-PEND:* 0 *DEEDS* 0 *COND-PEND* 0 *COND-FILED* 0
RWCERT:

NOTICE OF LOCATION AND DESIGN APPROVAL

Project No. BRST-052-1(13), Barrow County
P.I. No. 132970

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.

The date of location approval is MARCH 18, 2002

This project is located entirely in Barrow County on SR 11/Winder-Monroe Highway at Marbury Creek, south of Winder. The project is located within G.M.D. 243 and 249.

This project consists of the replacement of the structurally deficient bridge on SR 11 over Marbury Creek. The proposed bridge structure will be constructed on the existing alignment.

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

Mr. Randall L. Davis – Area Engineer
Randall.Davis@dot.state.ga.us
892 Hi-Hope Road
Lawrenceville, Georgia 30043
(770) 339-2308

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
No. 2 Capitol Square
Atlanta, Georgia 30334
404-463-6135

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

FLEXIBLE PAVEMENT DESIGN ANALYSIS

Project: BRST-052-1(13) **County:** Barrow
P.I. no.: 132970
Description: SR 11/Winder Monroe Highway Over Marbury Creek

Traffic Data (NOTE: AADTs are one-way)
24-hour Truck Percentage: 8.00%
AADT initial year of design period: 4,000 vpd (2007)
AADT final year of design period: 7,000 vpd (2027)
Mean AADT (one-way): 5,500 vpd

Design Loading

Mean AADT		LDF		Trucks		18-K ESAL		Total Daily Loads
5,500	*	1.00	*	0.080	*	1.06	=	467

Total predicted design period loading = 467 * 20 * 365 = 3,409,100

Design Data
Terminal Serviceability Index: 2.50
Soil Support: 2.50
Regional Factor: 1.80

PROPOSED FLEXIBLE PAVEMENT STRUCTURE

Material	Thickness mm	Thickness (in.)	Structural Coefficient	Structural Value
12.5 mm Superpave	38	(1.50)	0.0173	0.66
19 mm Superpave	51	(2.00)	0.0173	0.88
25 mm Superpave	25	(0.99)	0.0173	0.43
	77	(3.01)	0.0118	0.90
Graded Aggregate Base	305	(12.00)	0.0063	1.92

Required SN = 5.48 Proposed SN = 4.79

>>> Proposed pavement is 12.7% Underdesign <<<

Remarks:

Prepared by Brittain W. Hennessey, P.E. February 6, 2002
Date

Recommended _____
State Materials & Research Engineer **Date**

Approved _____
State Consultant Design Engineer **Date**

Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST-052-1(13) Barrow
P.I. 132970

OFFICE Environment/ Location

DATE August 7, 2001

FROM Harvey D. Keepler, State Environmental/ Location Engineer

TO Jim Chambers, P.E., State Consultant Design Engineer
Attn: Ted Cashin

SUBJECT SR 11/Winder-Monroe Highway @ Marbury Creek

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

Existing 1999 ADT = 7800
2007 ADT = 8000
2027 ADT = 14000
K = 9%
D = 60%
T = 5%
24 HR T = 8%
SU = 3%
COMB = 5%

Note: Assumes Winder Bypass to be in place.

If you have any questions concerning this information please contact Teresa Williamson at (404)699-4458

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-052-1(13)
County: Barrow
P.I. Number: 132970

Federal Route Number: NA
State Route Number: 11

Recommendation for approval:

DATE 2-15-02 — Project Manager

DATE 2-18-02 — State Consultant Design Engineer

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

3/6/02
DATE — State Transportation Planning Administrator

DATE — Office of Financial Management Administrator

DATE — State Environmental / Location Engineer

DATE — State Traffic Safety and Design Engineer

DATE — District Engineer

DATE — Project Review Engineer

DATE — State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-052-1(13)
County: Barrow
P.I. Number: 132970

Federal Route Number: NA
State Route Number: 11

Recommendation for approval:

DATE 2-15-02 _____ Project Manager

DATE 2-18-02 _____ State Consultant Design Engineer

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

_____ _____
DATE State Transportation Planning Administrator

_____ _____
DATE Office of Financial Management Administrator

2/28/02 _____
DATE State Environmental / Location Engineer

_____ _____
DATE State Traffic Safety and Design Engineer

_____ _____
DATE District Engineer

_____ _____
DATE Project Review Engineer

_____ _____
DATE State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-052-1(13)
County: Barrow
P.I. Number: 132970

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State Route Number: 11

Recommendation for approval:

DATE 2-15-02 — Project Manager

DATE 2-18-02 — State Consultant Design Engineer

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

DATE — State Transportation Planning Administrator

DATE — Office of Financial Management Administrator

DATE — State Environmental / Location Engineer

2/28/02 — State Traffic Safety and Design Engineer

DATE — District Engineer

DATE — Project Review Engineer

DATE — State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-052-1(13)
County: Barrow
P.I. Number: 132970

Federal Route Number: NA
State Route Number: 11

Recommendation for approval:

DATE 2-15-02 _____ Project Manager

DATE 2-18-02 _____ State Consultant Design Engineer

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

_____ DATE _____ State Transportation Planning Administrator

_____ DATE _____ Office of Financial Management Administrator

_____ DATE _____ State Environmental / Location Engineer

_____ DATE _____ State Traffic Safety and Design Engineer

2-27-02 _____ DATE _____ District Engineer

_____ DATE _____ Project Review Engineer

_____ DATE _____ State Bridge & Structural Design Engineer

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
OFFICE OF CONSULTANT DESIGN

PROJECT CONCEPT REPORT

Project Number: BRST-052-1(13)
County: Barrow
P.I. Number: 132970

Federal Route Number: NA
State Route Number: 11

Recommendation for approval:

DATE 2-15-02 — Project Manager

DATE 2-18-02 — State Consultant Design Engineer

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

DATE — State Transportation Planning Administrator

DATE — Office of Financial Management Administrator

DATE — State Environmental / Location Engineer

DATE — State Traffic Safety and Design Engineer

DATE — District Engineer

DATE — Project Review Engineer

3/8/02 — State Bridge & Structural Design Engineer