

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #0007159 **OFFICE** Design Policy & Support
CSBRG-0007-00(159)
GDOT District 1 - Gainesville
Barrow County **DATE** February 6, 2012
SR 211 @ Beech Creek 6.8 MI East of Winder
Bridge Replacement

FROM  for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator
Bobby Hilliard, State Program Delivery Engineer
Cindy VanDyke, State Transportation Planning Administrator
Angela Robinson, Financial Management Administrator
Glenn Bowman, State Environmental Administrator
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Lisa Myers, Acting State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Ben Rabun, State Bridge Engineer
Michael Henry, Systems & Classification Branch Chief
Kenny Whitworth, Acting District Engineer
Robert Mahoney, District Preconstruction Engineer
Allen Ferguson, District Utilities Engineer
Justin Lott, Project Manager
BOARD MEMBER - 7th Congressional District

Project Concept Report
Project Number: CSBRG-0007-00(159)
P. I. Number: 0007159
County: Barrow

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

PROJECT CONCEPT REPORT
Project Number: CSBRG-0007-00(159)
County: Barrow
P. I. Number: 0007159
Federal Route Number: N/A
State Route Number: 211

SR 211 @ Beech Creek 6.8 MI East of Winder
Bridge Replacement

Submitted for approval:

DATE 11/18/11

DATE 12/1/2011

DATE 11/30/11

[Signature]
Design Phase Office Head
[Signature]
Office Head (Project Manager's Office)
[Signature]
Project Manager

Recommendation for approval:

DATE _____

DATE 12-16-2011

DATE _____

DATE 12-13-2011

DATE 12-14-2011

DATE 12-16-2011

DATE 12-16-2011

DATE _____

Program Control Administrator
Glenn Bowman ★
State Environmental Administrator
State Traffic Engineer
Ron Wishon ★
Project Review Engineer
Patrick Allen ★
State Utilities Engineer
Allen Ferguson ★
District Engineer / District Utilities Engineer
Ben Rabun ★
State Bridge Design Engineer
State Transportation Financial Management Administrator

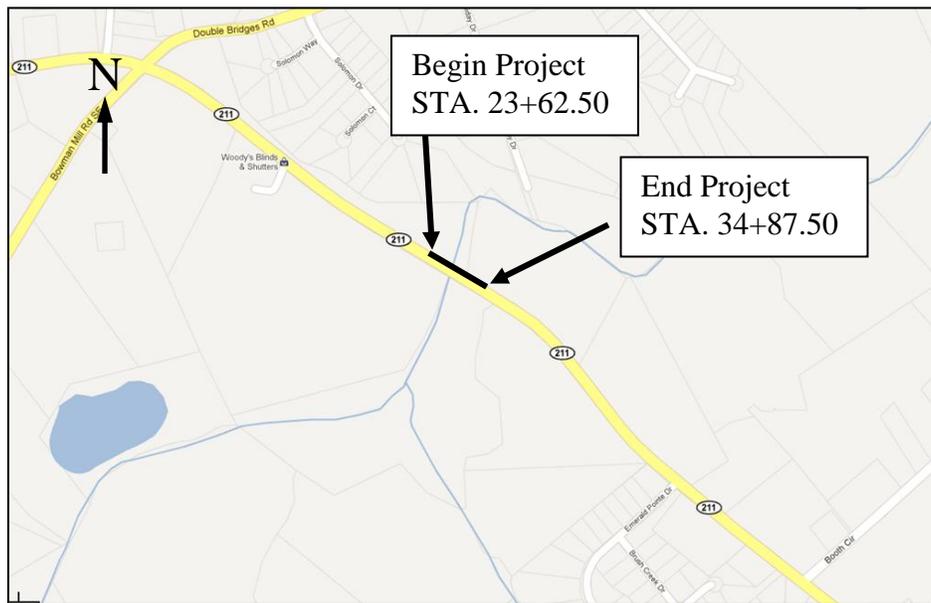
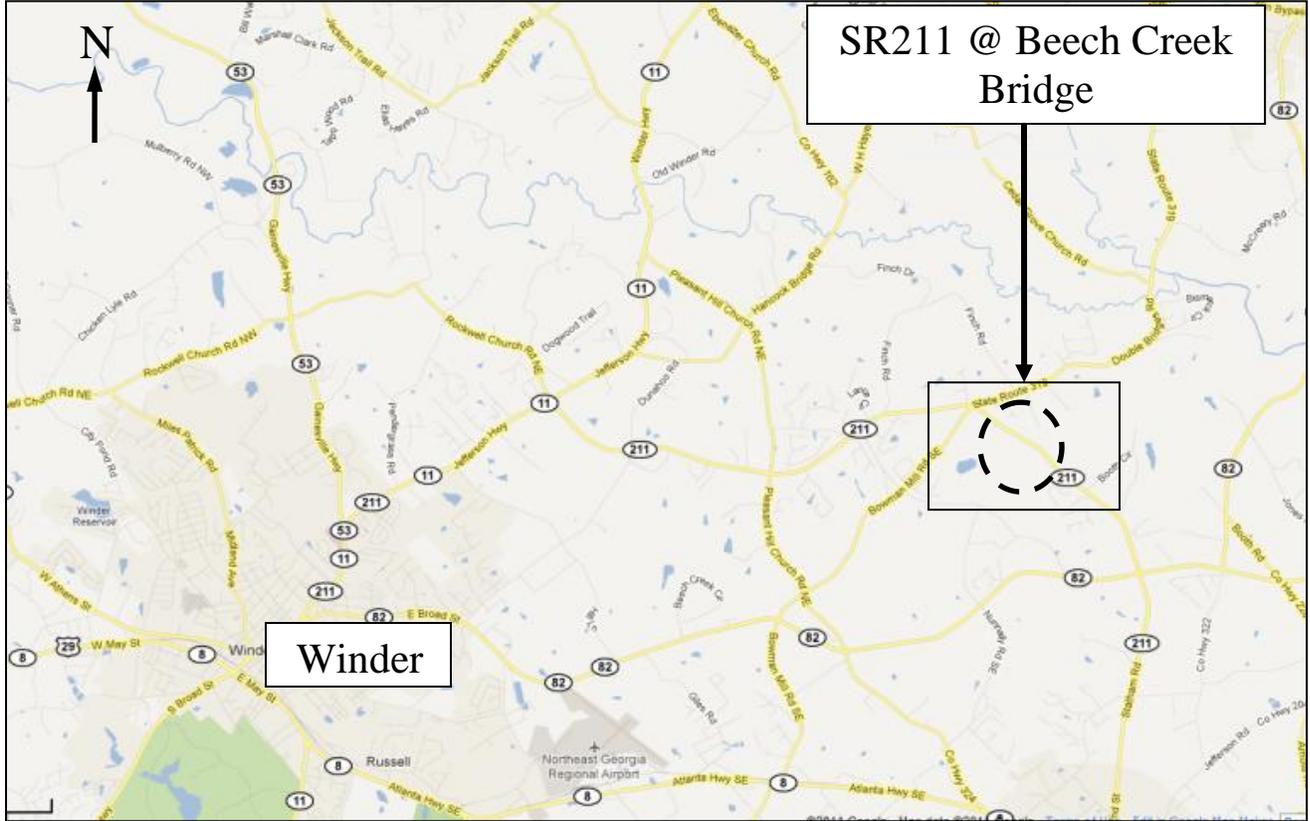
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

DATE 12-19-2011

Cindy VanDyke ★
State Transportation Planning Administrator

* Recommendation on file

Project Concept Report, Page 1 of 6
Project Number: CSBRG-0007-00(159)
P. I. Number: 0007159
County: Barrow



Project Location Map
Bridge Replacement on SR 211 at Beech Creek
Barrow County

Project Concept Report, Page 2 of 6
Project Number: CSBRG-0007-00(159)
P. I. Number: 0007159
County: Barrow

Justification Statement

The SR 211 Bridge over Beech Creek is located approximately 6 miles east of Winder, Georgia. The site is located along a rural section of the State Route between Double Bridges Road to the west and SR 82/Tallassee Road to the east. The surrounding area is rural agricultural with rolling topography. The bridge site is along a tangent section of SR 211 between horizontal curves approximately 559 and 507 feet from both ends of the bridge. SR 82 is a parallel route to the south of SR 211.

This bridge (Structure ID 013-0016-0; SR 211 over Beech Creek) was built in 1965. The bridge consists of three spans of Reinforced Concrete Deck Girders on concrete caps and steel piles. This bridge was designed using truck configurations that weigh less than the current legal state truck weights. This bridge is posted. The overall condition of this bridge would be classified as fair; with the deck, superstructure and substructure members exhibiting cracking and/or minor spalling. No rehabilitation work performed on the structure components would improve this bridge in so far as the posting of the structure is concerned. Therefore due to the structural integrity based on the design, replacement of this bridge is recommended.

Description of the proposed project: The proposed project will consist of the removal of the existing structure and replacement on existing alignment. The proposed project length is 0.21 miles with the bridge being approximately 120 ft long. The road and bridge will continue to be a rural two lane, 55 mph corridor. The project is located in Barrow County approximately 6.8 miles east of Winder. The roadway will consist of two 12 foot lanes, 8 foot shoulders(2 foot paved) and 4 foot flat bottom ditches. The bridge will consist of two 12 foot lanes with 8 foot shoulders.

The project includes a proposed offsite detour using SR 82 as the primary detour route. SR 82 is located south of and parallel to SR 211. The detour route would have one terminus at the intersection of SR 11 and SR 211 and the other at the intersection of SR 211 and SR 82. The alignment and geometry of SR 82 is in rolling/flat terrain similar to SR 211. The length of the detour is approximately 10.75 miles. The estimated additional travel time is between 7 and 8 minutes. There are several other local streets connecting SR 211 with SR 82 that could also be used by local traffic.

Is the project located in a PM 2.5 Non-attainment area? Yes No

Is this project located in an Ozone Non-attainment area? Yes No

PDP Classification: Major Minor

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

Functional Classification: Rural Major Collector

Project Concept Report, Page 3 of 6
Project Number: CSBRG-0007-00(159)
P. I. Number: 0007159
County: Barrow

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

State Route Number(s): 211

Traffic (AADT):

Current Year: (2009) – 2,700 Base Year (2016) – 3,500 Design Year: (2036) – 7,100

Existing design features:

- Typical Section: Two (2) 12-foot lanes
3' shoulder with approximately 1' paved
- Posted speed: 55 mph
- Minimum radius for curve: 1519.46 ft
- Maximum super-elevation rate for curve: 7.02%
- Maximum grade: 4.6%
- Width of right-of-way: 80' (+/-)
- Major structures: SR 211 over Beech Creek: Structure ID 013-0016-0
120 ft long by 25.9 ft roadway width
Sufficiency Rating: 48.08
- Major interchanges or intersections along the project: N/A
- Project extends along State Route 211 for 0.21 miles.

Proposed Design Features:

Mainline Alignment

- Proposed typical Section(s): Two (2) 12-foot lanes
8' Shoulders, (2' paved), 4' flat bottom ditch
- Proposed Design Speed Mainline: 55mph
- Proposed Maximum grade Mainline: 2.02%
- Maximum grade allowable: 5%
- Proposed Maximum grade Side Street: N/A
- Maximum grade allowable: N/A
- Proposed Maximum grade Driveway: N/A
- Proposed Minimum radius of curve: N/A, (Project in Tangent)
- Minimum radius allowable: 1060 ft
- Maximum allowable super elevation rate: 6%
- Proposed maximum super elevation rate: Normal Crown, (Project in Tangent)
- Right-of-Way
 - Width: Varies 80'-162'
 - 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

Project Concept Report, Page 4 of 6
 Project Number: CSBRG-0007-00(159)
 P. I. Number: 0007159
 County: Barrow

- Structures:
 - Bridges: 120 ft long, 40 ft wide , 2-Lane, Sufficiency Rating: 100
 - Retaining walls: None
- Major intersections, interchanges, median openings and signal locations: None
- Transportation Management Plan Anticipated: Yes () No (X)
- Design Exceptions to controlling criteria anticipated:

	<u>Yes</u>	<u>No</u>	<u>Undetermined</u>
1. DESIGN SPEED:	0	(X)	0
2. LANE WIDTH:	0	(X)	0
3. SHOULDER WIDTH:	0	(X)	0
4. BRIDGE WIDTH:	0	(X)	0
5. HORIZONTAL ALIGNMENT:	0	(X)	0
6. SUPER ELEVATION:	0	(X)	0
7. VERTICAL ALIGNMENT:	0	(X)	0
8. GRADE:	0	(X)	0
9. STOPPING SIGHT DISTANCE:	0	(X)	0
10. CROSS SLOPE:	0	(X)	0
11. VERTICAL CLEARANCE:	0	(X)	0
12. LATERAL OFFSET TO OBSTRUCTION:	0	(X)	0
13. BRIDGE STRUCTURAL CAPACITY	0	(X)	0

- Design Exceptions: N/A
- Design Variances: N/A
- Environmental concerns: Potential Location For Aquatic Species (ie Altamaha shiner). Stream Impacts: 90 linear feet
- Anticipated Level of Environmental Analysis:
 - Are Time Savings Procedures appropriate? Yes (X), No (),
 - Categorical Exclusion (X),
 - Enviro Assessment/Finding of No Significant Impact anticipated (FONSI) (),
 - Enviro Impact Statement (EIS) ().
- Utility involvements:
 - Windstream Communications
- Public Interest Determination Policy and Procedure Required? Yes (), No (X)
- VE Study Anticipated Yes () No (X)
- Maintenance of Traffic: A detour along SR 82 is proposed. The detour would be approximately 10.75 miles long and remain in place for 9 months to 1 year.

Project Cost Estimate and Funding Responsibilities:

	PE	ROW	UTILITY	CST	MITIGATION
By Whom	GDOT	GDOT	GDOT	GDOT	GDOT
\$ Amount	\$220,000 *	\$163,000	\$0	\$1,055,478.71	\$8,000

CST Cost includes: Construction, Engineering and Inspection, Fuel Cost Adjustment, and Asphalt Cement Cost Adjustment

** PE cost includes \$100,000 Environmental consultant fees*

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Project Number: CSBRG-0007-00(159)
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County: Barrow

Project responsibilities:

- o Design: GDOT – District 1
- o Right-of-Way Acquisition: GDOT – District 1
- o Right-of-Way funding (real property) GDOT
- o Relocation of Utilities: GDOT – District 1
- o Letting to contract: GDOT
- o Supervision of construction: GDOT – District 1
- o Providing material pits: GDOT / Contractor
- o Providing detours: GDOT – District 1
- o Environmental Studies/Documents/Permits Mulkey Engineers and Consultants
- o Environmental Mitigation GDOT – District 1

Coordination

- Initial Concept Meeting date and brief summary. Not Held
- Concept meeting date and brief summary: Attach minutes
- P A R meetings, dates and results: Not Required
- FEMA, USCG, and/or TVA: N/A
- Public involvement: Detour PIOH Required
- Railroads: N/A
- Local Government Commitments: N/A
- Other projects in the area: N/A
- Railroads: N/A
- Peer Review documentation: N/A

Scheduling – Responsible Parties’ Estimate

- Time to complete the environmental process: Begin: Dec '11 End: Nov '12
- Time to complete preliminary construction plans: Begin: Mar '12 End: Nov '12
- Time to complete right-of-way plans: Begin: Dec '12 End: Mar '13
- Time to complete the Section 404 Permit: Begin: Dec '13 End: Jun '14
- Time to complete final construction plans: Begin: Feb '13 End: May '14
- Time to complete to purchase right-of-way: Begin: May '13 End: May '14

Other alternates considered:

Existing Alignment Proposed Alignment: This alternative is considered to be the most cost effective alternative available.

Existing Alignment with Detour Bridge on North Side: This alternative was considered due to the length of off sight detour. This alternative would consist of an additional construction cost of approximately \$541,398.29. The alternative design would require an additional construction right of way easement cost of \$25,000 and an additional PE cost of \$75,000. There could also be

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Project Number: CSBRG-0007-00(159)
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County: Barrow

an unknown additional cost for environmental mitigation. Though this alternative would satisfy the project justification, it was not deemed prudent relative to the existing alignment proposed alignment alternative.

Existing Alignment with Detour Bridge on South Side: This alternative was considered due to the length of off sight detour. This alternative would consist of an additional construction cost of approximately \$541,398.29. The alternative design would require an additional construction right of way easement cost of \$25,000 and an additional PE cost of \$75,000. There could also be an unknown additional cost for environmental mitigation. Though this alternative would satisfy the project justification, it was not deemed prudent relative to the existing alignment proposed alignment alternative.

No-Build: This alternative would not satisfy the Justification Statement.

Comments: (none)

Attachments:

1. Detailed Cost Estimates:
 - a. Construction including Engineering and Inspection.
 - b. Completed Fuel & Asphalt Price Adjustment forms.
 - c. Preliminary Right-of-Way.
 - d. Utilities.
 - e. Environmental Mitigation (EPD, etc)
2. Typical sections.
3. Traffic data.
4. Bridge inventory.
5. Minutes of Concept Team Meeting.
6. Concept Plan/Profile Sheet
7. Proposed Detour Location Map.

Concur: _____

All R McManis
Director of Engineering

Approve: _____

Deon Pearson
Chief Engineer

Date: _____

2-2-12

DETAILED COST ESTIMATE



Job: 0007159

ITEMS COST:	\$978,226.78
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$978,226.78
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$1,027,138.12

DETAILED COST ESTIMATE



Job: 0007159

JOB NUMBER: 0007159

FED/STATE PROJECT NUMBER

SPEC YEAR: 01

DESCRIPTION: BRIDGE REPLACEMENT, SR 211 @ BEECH CREEK 6.8 MI. E OF WINDER

ITEMS FOR JOB 0007159

0010 - ROADWAY ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-0000	1.000	.\$	\$25,000.00	SEC 150 TRAFFIC CONTROL	\$25,000.00
0020	210-0100	1.000	LS	\$50,000.00	GRADING COMPLETE - GRADING COMPLETE	\$50,000.00
0035	310-1101	1750.000	TN	\$18.55	GR AGGR BASE CRS, INCL MATL	\$32,470.04
0175	402-1812	150.000	TN	\$74.55	RECYL AC LEVELING,INC BM&HL	\$11,182.83
0165	402-3121	883.000	TN	\$64.07	RECYL AC 25MM SP,GP1/2,BM&HL	\$56,576.36
0025	402-3130	258.000	TN	\$73.21	RECYL AC 12.5MM SP,GP2,BM&HL	\$18,887.49
0030	402-3180	344.000	TN	\$71.77	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$24,689.24
0170	413-1000	500.000	GL	\$2.82	BITUM TACK COAT	\$1,411.03
0015	433-1200	167.000	SY	\$158.57	REF CONC APPR SL/I SLOPED EDGE	\$26,480.99
0040	540-1102	1.000	LS	\$160,735.70	REM OF EX BR, BR NO - REMOVE EXIST BRIDGE	\$160,735.70
0185	641-1100	84.000	LF	\$62.54	GUARDRAIL, TP T	\$5,253.69
0180	641-1200	1657.000	LF	\$15.27	GUARDRAIL, TP W	\$25,300.43
0054	641-5001	2.000	EA	\$591.19	GUARDRAIL ANCHORAGE, TP 1	\$1,182.38
0050	641-5012	2.000	EA	\$1,820.63	GUARDRAIL ANCHORAGE, TP 12	\$3,641.25
0055	653-1501	1500.000	LF	\$0.50	THERMO SOLID TRAF ST 5 IN, WHI	\$755.79
0060	653-1502	1500.000	LF	\$0.46	THERMO SOLID TRAF ST, 5 IN YEL	\$690.33
SUBTOTAL FOR ROADWAY ITEMS:						\$444,257.85

0020 - EROSION CONTROL ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0125	163-0232	1.750	AC	\$400.63	TEMPORARY GRASSING	\$701.09
0075	163-0240	20.000	TN	\$290.24	MULCH	\$5,804.76
0070	163-0300	2.000	EA	\$1,100.44	CONSTRUCTION EXIT	\$2,200.88
0080	163-0520	120.000	LF	\$12.67	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$1,520.82
0085	163-0527	12.000	EA	\$261.42	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$3,137.09
0090	163-0528	300.000	LF	\$3.98	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$1,193.62
0095	163-0541	2.000	EA	\$412.92	CONSTR & REM ROCK FILTER DAMS	\$825.83
0105	165-0030	1000.000	LF	\$0.84	MAINT OF TEMP SILT FENCE, TP C	\$839.72
0115	165-0041	100.000	LF	\$1.87	MAINT OF CHECK DAMS - ALL TYPES	\$167.21
0110	165-0101	8.000	EA	\$608.40	MAINT OF CONST EXIT	\$4,867.21
0130	167-1000	1.000	EA	\$610.71	WATER QUALITY MONITORING AND SAMPLING	\$610.71
0135	167-1500	24.000	MO	\$493.21	WATER QUALITY INSPECTIONS	\$11,836.94
0100	171-0030	2500.000	LF	\$3.22	TEMPORARY SILT FENCE, TYPE C	\$8,042.80
0190	603-2180	100.000	SY	\$32.67	STN DUMPED RIP RAP, TP 3, 12"	\$3,266.58
0140	700-6910	1.750	AC	\$605.93	PERMANENT GRASSING	\$1,060.37
0145	700-7000	5.000	TN	\$66.76	AGRICULTURAL LIME	\$333.81
0150	700-8000	1.050	TN	\$437.86	FERTILIZER MIXED GRADE	\$459.76
0155	700-8100	200.000	LB	\$2.45	FERTILIZER NITROGEN CONTENT	\$490.27
0160	716-2000	4000.000	SY	\$0.98	EROSION CONTROL MATS, SLOPES	\$3,919.96
SUBTOTAL FOR EROSION CONTROL ITEMS:						\$51,279.43

0030 - BRIDGE ITEMS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0045	543-9000	1.000	LS	\$482,689.80	CONSTR OF BRIDGE COMPLETE - PROP BRIDGE CONST	\$482,689.80
SUBTOTAL FOR BRIDGE ITEMS:						\$482,689.80

TOTALS FOR JOB 0007159

PROJ. NO.

CSBRG-0007-00(159)

CALL NO.

P.I. NO.

0007159

DATE

11/29/2011

INDEX (TYPE)

DATE

INDEX

REG. UNLEADED

Oct-11

\$ 3.258

DIESEL

\$ 3.769

LIQUID AC

\$ 563.00

Link to Fuel and AC Index:

<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)

27615.15

\$

27,615.15

Monthly Asphalt Cement Price month placed (APM)

Max. Cap

60%

\$ 900.80

Monthly Asphalt Cement Price month project let (APL)

\$ 563.00

Total Monthly Tonnage of asphalt cement (TMT)

81.75

ASPHALT	Tons	%AC	AC ton
Leveling	150	5.0%	7.5
12.5 OGFC	0	5.0%	0
12.5 mm	258	5.0%	12.9
9.5 mm SP	0	5.0%	0
25 mm SP	883	5.0%	44.15
19 mm SP	344	5.0%	17.2
	1635		81.75

BITUMINOUS TACK COAT

Price Adjustment (PA)

\$ 725.44

\$

725.44

Monthly Asphalt Cement Price month placed (APM)

Max. Cap

60%

\$ 900.80

Monthly Asphalt Cement Price month project let (APL)

\$ 563.00

Total Monthly Tonnage of asphalt cement (TMT)

2.147550461

Bitum Tack

Gals	gals/ton	tons
500	232.8234	2.14755046

PROJ. NO.

CSBRG-0007-00(159)

CALL NO.

P.I. NO.

0007159

DATE

11/29/2011

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)

0

\$

Monthly Asphalt Cement Price month placed (APM)

Max. Cap

60%

\$

900.80

Monthly Asphalt Cement Price month project let (APL)

\$

563.00

Total Monthly Tonnage of asphalt cement (TMT)

0

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.	0	0.20	0	232.8234	0
Double Surf. Trmt.	0	0.44	0	232.8234	0
Triple Surf. Trmt	0	0.71	0	232.8234	0
					0

TOTAL LIQUID AC ADJUSTMENT

\$

28,340.59

**GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY**

Date: 11/8/2011 Project: CSBRG-0007-00(159)
 Revised: County: Barrow
 PI: 0007159

Description: SR 21 & Beech Creek east of Winder Bridge Replacment
 Project Termini: SR 21 & Beech Creek east of Winder Bridge Replacment

Existing ROW: Varies
 Required ROW: Varies
 Parcels: 4

Land and Improvements _____ **\$75,075.00**

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$0.00

Valuation Services _____ \$4,000.00

Legal Services _____ \$40,200.00

Relocation _____ \$8,000.00

Demolition _____ \$0.00

Administrative _____ \$35,500.00

TOTAL ESTIMATED COSTS _____ **\$162,775.00**

TOTAL ESTIMATED COSTS (ROUNDED) _____ **\$163,000.00**

Preparation Credits	Hours	Signature

Prepared By: Lashone Alexander CG#: 286999 (DATE) 11/09/2011
 Approved By: Daphne Boyade CG#: 286999 (DATE) 11/09/2011

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI CSBRG-0007-00(159) Barrow 0007159

	A	B	C	D
Land and Improvements	Agriculture	Residential	Commercial	Industrial
1 Estimate Low (ac)	\$0.00	\$0.00	\$0.00	\$0.00
2 Estimate High (ac)	\$0.00	\$0.00	\$0.00	\$0.00
3 Estimate Used (ac)	\$0.00	\$65,000.00	\$0.00	\$0.00
4 Fee Simple Area (ac)	0.00	0.77	0.00	0.00
5 Fee Simple Estimate	\$0.00	\$50,050.00	\$0.00	\$0.00
6 Perm Esmt Area (ac)	0.00	0.00	0.00	0.00
7 Perm Esmt Factor	0%	0%	0%	0%
8 Perm Esmt Estimate	\$0.00	\$0.00	\$0.00	\$0.00
9 Temp Esmt Area (ac)	0.00	0.00	0.00	0.00
10 Temp East Factor	0%	0%	0%	0%
11 Temp Esmt Estimate	\$0.00	\$0.00	\$0.00	\$0.00
12 Proximity Damages	\$0.00	\$0.00	\$0.00	\$0.00
13 Consequential Damages	\$0.00	\$0.00	\$0.00	\$0.00
14 Cost to Cures	\$0.00	\$0.00	\$0.00	\$0.00
15 Improvements	\$0.00	\$0.00	\$0.00	\$0.00
16 Trade Fixtures	\$0.00	\$0.00	\$0.00	\$0.00
17				
18 PROPERTY TYPE TOTALS	\$0.00	\$50,050.00	\$0.00	\$0.00
19	SUB TOTAL PROPERTY TYPES			\$50,050.00
20	Counter Offers and Condemnation Increases			\$25,025.00
21				
22	GRAND TOTAL LANDS AND IMPROVEMENTS			\$75,075.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI CSBRG-0007-00(159) Barrow 0007159

	A	B	C	D
Valuation Services	Agriculture	Residential	Commercial	Industrial
1 Appraisals (# of Parcels)	0	4	0	0
2 Estimated Fees (per Parcel)	\$0.00	\$1,000.00	\$0.00	\$0.00
3 TOTAL APPRAISALS	\$0.00	\$4,000.00	\$0.00	\$0.00
4 Sign Estimates	0	0	0	0
5 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
6 TOTAL SIGN ESTIMATES	\$0.00	\$0.00	\$0.00	\$0.00
7 Specialty Reports	0	0	0	0
8 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
9 TOTAL SPECIALTY REPORTS	\$0.00	\$0.00	\$0.00	\$0.00
10 Septic/Well Reports	0	0	0	0
11 Estimated Fees	\$0.00	\$0.00	\$0.00	\$0.00
12 TOTAL SEPTIC/WELL REPORTS	\$0.00	\$0.00	\$0.00	\$0.00
13				
14				
15				
16 TOTAL VALUATION FEES	\$0.00	\$4,000.00	\$0.00	\$0.00
17	SUB TOTAL VALUATION SERVICES			\$4,000.00
18	Updates and Incidentals (Min \$2,500 or 25%)			\$2,500.00
19	GRAND TOTAL VALUATION SERVICES			\$4,000.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI CSBRG-0007-00(159) Barrow 0007159

	A	B	C	D
	Parcels	Estimated Fees		TOTALS
1	Meeting with Attorney	4	\$125.00	\$500.00
2	Preliminary Titles	4	\$200.00	\$800.00
3	Closing and Final Title	4	\$300.00	\$1,200.00
4	Recording Fees	4	\$50.00	\$200.00
5	Condemnation Filing	1	\$5,000.00	\$5,000.00
6	Litigation Costs	1	\$25,000.00	\$25,000.00
7	Updates and Incidentals	1	\$7,500.00	\$7,500.00
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL LEGAL SERVICES			\$40,200.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI CSBRG-0007-00(159) Barrow 0007159

	A	B	C	D
	Relocation	Displacements	Estimated Costs	TOTALS
1	Business Displacement		\$15,000.00	\$0.00
2	Residential Tenant		\$20,000.00	\$0.00
3	Residential Owner		\$40,000.00	\$0.00
4	Pro-Rata Taxes	4	\$1,000.00	\$4,000.00
5	Property Pin Replacement	4	\$1,000.00	\$4,000.00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL RELOCATION			\$8,000.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI CSBRG-0007-00(159) Barrow 0007159

	A	B	C	D
	Demolition	Items/Improvements	Estimated Costs	TOTALS
1	Residential Structures		\$15,000.00	\$0.00
2	Commercial Structures		\$25,000.00	\$0.00
3	Hotels/Apartments		\$60,000.00	\$0.00
4	UST's - Dispensers		\$50,000.00	\$0.00
5	Billboards		\$8,000.00	\$0.00
6	Signs - Light Standards		\$1,500.00	\$0.00
7	Water Vaults		\$15,000.00	\$0.00
8	Gas/Water Service Separation		\$2,500.00	\$0.00
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL DEMOLITION			\$0.00

Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet

Project/County/PI CSBRG-0007-00(159) Barrow 0007159

	A	B	C	D
	Parcels	Man hours per Parcel		TOTALS
1	4	40		\$8,000.00
2	4	100		\$20,000.00
3		50		\$0.00
4	1	50		\$2,500.00
5	1	100		\$5,000.00
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17	GRAND TOTAL INHOUSE			\$35,500.00

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(159) Barrow
P.I. No. 0007159
SR 211 @ Beech Creek
OFFICE Gainesville
DATE September 10, 2010

FROM  Allen Ferguson
District Utilities Engineer

TO Robert Mahoney, District Preconstruction Engineer
ATTN Nell Kantner

SUBJECT PRELIMINARY REIMBURSABLE UTILITY COST (ESTIMATE)

As requested by your office, we are furnishing you with a Preliminary Reimbursable Utility Cost estimate for the subject project.

There are no anticipated reimbursable utility costs within the project limits.

If you have any questions, please contact Allen Ferguson at 770-532-5510.

RAF

C: Jeff Baker, State Utilities Engineer
Angie Robinson, Office of Financial Management
Harold Mull, Area Engineer
File

Skogsberg, Chad

From: Heather Perrin [hcolston@mulkeyinc.com]
Sent: Thursday, October 06, 2011 4:30 PM
To: Skogsberg, Chad
Cc: Britt Hennessey
Subject: RE: PI#0007159 SR211 @ BEECH CREEK 6.8 MI E OF WINDER

Hi Chad,

Responses below should provide what you need. Please let me know if you require anything else or have questions.

Environmental concerns:

- Section 404 – Nationwide permit for approximately 600 sq. feet of impacts to intermittent stream, less than 0.1 acre impacts to wetlands (no PAR anticipated)
- UST/Hazardous Waste – asphaltic tile under the northwest bent of the bridge – origin unknown.
- Archaeological sites - Potential is moderate.
- Historic Resources – None likely eligible, but 2 resources older than 50 years are located in the project limits that we're aware of so far (house and bridge itself)
- Protected species – habitat for Altamaha shiner (fish) in the creek (aquatic species – survey beginning in May through most of the summer). Habitat for state-listed Pink ladyslipper, survey in July-September.
- Time Savings Procedures appropriate? - Yes
- Categorical exclusion anticipated – Yes (Hence, no EA/FONSI or EIS)
- ★ The anticipated mitigation costs associated with ~600 sq. feet of stream (106.25 mitigation credits) and a small amount of wetland (0.0756 credits) is approximately \$8,000.00.

Please note that before we can get final Concept approval, we need to complete early coordination and field surveys for the resources (see PDP – Chapter 5, pg. 48).

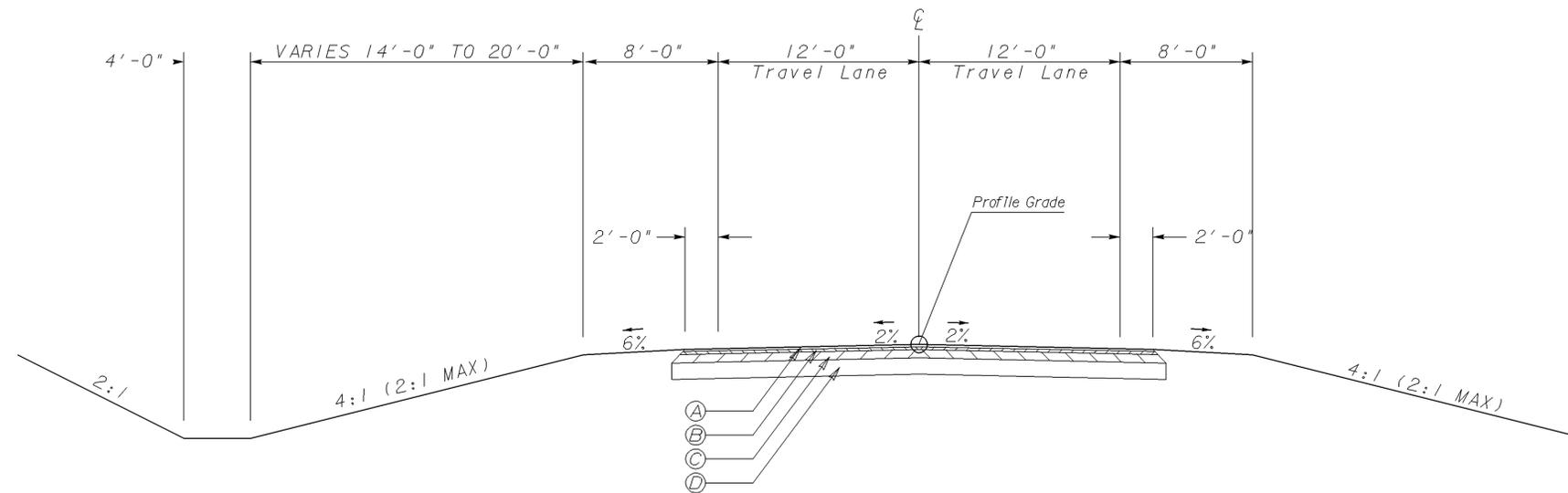
No other concerns or impacts are expected. Looking forward to working with you on this project.

Thanks,
Heather

Heather M. Perrin, AICP, MHP
Environmental Project Manager
Mulkey Engineers & Consultants
1255 Canton Street, Suite G
Roswell, GA 30075
Direct: 678-795-3605
Fax: 678-461-3494

Mulkey...helping you transform everyday challenges into everyday achievements.
www.mulkeyinc.com

From: Skogsberg, Chad [<mailto:cskogsberg@dot.ga.gov>]
Sent: Thursday, October 06, 2011 1:07 PM
To: Britt Hennessey
Cc: Heather Perrin
Subject: RE: PI#0007159 SR211 @ BEECH CREEK 6.8 MI E OF WINDER

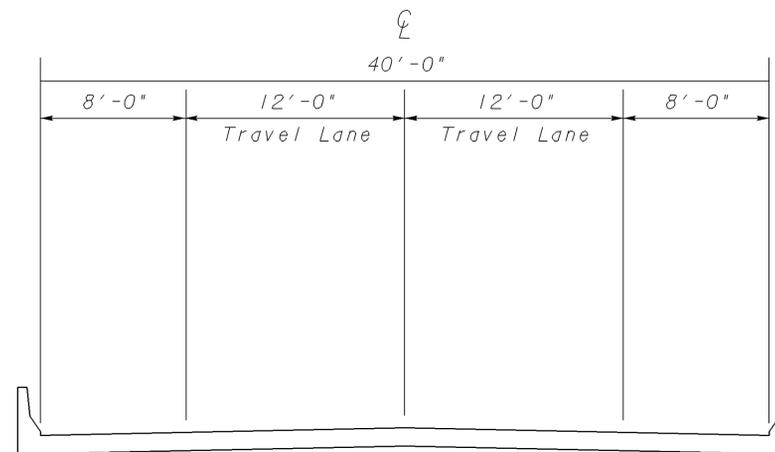


TS-01

TANGENT SECTION

APPLIES TO MAINLINE RD STA. 23+62.50 TO STA. 29+18.10
 MAINLINE RD STA. 30+38.73 TO STA. 34+87.50

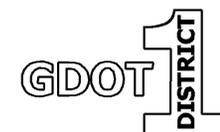
- Ⓐ 12.5 mm SUPERPAVE, GP II ONLY, INCL POLYMER-MODIFIED BITUM MATL AND H LIME, 165 LB/SY
- Ⓑ 19 mm SUPERPAVE, GP I OR II, INCL BITUM MATL AND H LIME, 220 LB/SY
- Ⓒ 25 mm SUPERPAVE, GP I OR II, INCL BITUM MATL AND H LIME, 660 LB/SY
- Ⓓ GRADED AGGREGATE BASE COURSE, INCL MATL, 10 IN



TS-02

BRIDGE TYPICAL SECTION

APPLIES TO MAINLINE RD STA. 29+18.10 TO STA. 30+38.73



	REVISION DATES				STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
					OFFICE: DISTRICT ONE DESIGN
					TYPICAL SECTIONS
					SR211 AT BEECH CREEK
					DRAWING No. 5-01

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

District: 1
Bridge Inspector: Brad Camp
Location ID: 013-00211D-004.33N
Structure ID: 013-0016-0

Inspection Date: 11/13/2009
Over: BEECH CREEK
County: Barrow
Road Name: STATHAM ROAD

Inspection Area: 01
Bridge Status: 06

EVALUATION & DEFICIENCIES

SubStructure:

Year Painted: 1985

2 Concrete abutments and 2 interior bents with W24"(D)x24"(W) concrete caps and 4 - HP 12x53 piles. Bent 3 piles are encased with X-bracing.

Bent #2 = H-25 Calculated 2003 by Central Office (Load Factor).

There is lead based paint.

There is lead based paint with minor to moderate pitting and corrosion; minor section loss at bent 2 piles 1 and 3 at the ground line.

At abutments 1,4, there is end wall cracking and spalling, especially abutment 1.

At abutment 4, the slope protection has been washed away, except up against the abutment.

Abutment 1 has a pile exposed less than 1'.

There is cap cracking coming out of piles on the bottom-bents 2,3.

Bent 3 pile encasement slight undermining has silted in, except pile 1 with 1' up and down and 0.9' to pile.

Seal abutment 1 right end wall spall.

Seal cap cracking bents 2,3 coming out of piles.

SuperStructure:

Year Painted: 0000

3 Simple spans with 4 - 23 (D) x 18 (W) concrete T- beams on 7.3' centers.

Span #2 = H-11 Calculated 2003 by Central Office (Load Factor).

There is hairline cracking beginning at the abutments on the interior beams 2,3 (beam ends, too).

These are ok to date, but should be monitored.

There is typical hairline flexure cracking, in all spalls.

Deck:

6" Concrete deck

H-25 Calculated 2003 by Central Office (Load Factor).

There is minor to moderate pop outs and aggregate showing, especially spans 1,3.

Span 1 and span 3 have flexure cracking, mostly hairline.

Repair deck spall span 1 at bent 2, Seal vex in place, still needs to be repaired with concrete.

There is hairline edge beam cracking at bent 3 at bay 2.

Spot seal deck joints.

Repair deck spall span 1 at bent 2.

General:

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

District: 1
Bridge Inspector: Brad Camp
Location ID: 013-00211D-004.33N
Structure ID: 013-0016-0

Inspection Date: 11/13/2009
Over: BEECH CREEK
County: Barrow
Road Name: STATHAM ROAD

Inspection Area: 01
Bridge Status: 06

EVALUATION & DEFICIENCIES

1965 concrete T-beam and steel pile bridge.

Calculations for this structure were determined by the Central Office. - December, 2003.

This is a ladder bridge 2001, 2003,2005,2007,2009.

Proposed Project Number
 BRG-0007-00(159)-2007
 Standard-3559A B MOD

- The hand rail at bent 2 has been repaired.
- There is minor spall on end post abutment 4-ok.
- Spot seal deck joints.
- Repair deck spall span 1 at bent 2.
- Seal abutment 1 right end wall spall.
- Seal cap cracking bents 2,3 coming out of piles.
- Seal asphalt spall and roadway cracking.
- Clean and seal overhang cracking and spalling at span 1 and bent 3.
- Remove debris from spillway.

Condition Rating

Temp Shored: No

Component	Material	Rating
Substructure	Steel-Concrete	6
Superstructure	Concrete	6
Deck	Concrete	6

Truck Type	Gross/H-Mod	HMod	Tand	3-S-2	Log	Piggy
Calculated Posting	21	27	23	37	31	40
Posting Required	Yes	Yes	Yes	Yes	Yes	No
Existing Posting	21	27	23	37	31	00

School Bus Route.

Structure Requires Posting

GEORGIA DEPARTMENT OF TRANSPORTATION

Deficiency Report

District: 1
Bridge Inspector: Brad Camp
Location ID: 013-00211D-004.33N
Structure ID: 013-0016-0

Inspection Date: 11/13/2009
Over: BEECH CREEK
County: Barrow
Asst. District Engineer: Todd McDuffie

Inspection Area: 01

EVALUATION & DEFICIENCIES

STATHAM ROAD Over BEECH CREEK-----6.8 MI E OF WINDER

Item	Units	Work	P	Date Reported	Location	Date Completed	Complete
830	HOURS	56	B	1/19/2000	A1, Bts 2,3		***
800	LIN. FT.	30	B	11/1/2001	Spot seal deck joints		***
810	SQ. FT.	2	B	11/1/2001	Deck spall span 1	7/21/2004	993.00
845	HOURS	48	B	11/1/2001	Road way cracking		***

Comments:

01/19/2000

830-Seal abutment 1 right end wall spall. Seal cap cracking bents 2,3 coming out of piles.

11/01/2001

800-Spot seal deck joints.

810-Repair deck spall span 1 at bent 2.

845-Seal asphalt spall and roadway cracking.

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 013-0016-0

Barrow

SUFF. RATING

48.08

Location & Geography

Signs & Attachments

* Structure I.D.No:	013-0016-0	* 104 Highway System:	0	225 Expansion Joint Type:	02
200 Bridge Information	06	* 26 Functional Classification:	07	242 Deck Drains:	1
* 6A Feature Int:	BEECH CREEK	* 204 Federal Route Type:	S No.: 01311	243 Parapet Location:	0
* 6B Critical Bridge:	0	105 Federal Lands Highway:	0	Height:	0.00
* 7A Route Number Carried:	SR00211	* 110 Truck Route:	0	Width:	0.00
* 7B Facility Carried:	STATHAM ROAD	206 School Bus Route:	1	238 Curb:	1.20 1
* 9 Location:	6.8 MI E OF WINDER	217 Benchmark Elevation:	0000.00	239 Handrail:	1 1
2 DOT District:	1	218 Datum:	0	* 240 Median Barrier Rail:	0
207 Year Photo:	2009	* 19 Bypass Length:	08	241 Bridge Median Height:	0.00
* 91 Inspection Frequency:	24 Date: 11/13/2009	* 20 Toll:	3	Width:	0.00
92A Fract Crit Insp Freq:	00 Date: 02/01/1901	* 21 Maintenance:	01	* 230 Guardrail Loc Dir Rear:	3
92B Underwater Insp Freq:	00 Date: 02/01/1901	* 22 Owner:	01	Fwd:	3
92C Other Spc. Insp Freq:	00 Date: 02/01/1901	* 31 Design Load:	2	Oppo Dir Rear:	0
* 4 Place Code:	00000	37 Historical Significance:	5	Fwd:	0
* 5 Inventory Route (O/U):	1	205 Congressional District:	07	244 Approach Slab:	3
Type:	3	27 Year Constructed:	1965	224 Retaining Wall:	0
Designation:	1	106 Year Reconstructed:	0000	233 Posted Speed Limit:	55
Number:	00211	33 Bridge Median:	0	236 Warning Sign:	1
Direction:	0	34 Skew:	10	234 Delineator:	1
* 16 Latitude: 34-01.2070	MMS Prefix: SR	35 Structure Flared:	0	235 Hazard Boards:	1
* 17 Longitude: 83-36.3873	MMS Suffix: 00 MP: 4.33	38 Navigation Control:	0	237 Utilities Gas:	00
98 Border Bridge: 000	%Shared: 00	213 Special Steel Design:	0	W	00
99 ID Number: 0000000000000000		267 Type of Paint:	1	Ele	00
* 100 STRAHNET: 0		* 42 Type of Service on:	1	Telephone:	00
12 Base Highway Network:	1	5		S	00
13A LRS Inventory Route:	131021100	214 Movable Bridge:	0	247 Lighting Street:	0
13B Sub Inventory Route:	0	203 Type Bridge:	E-N-O-O	Naviagtion:	0
* 101 Parallel Structure:	N	259 Pile Encasement:	1	Aerial:	0
* 102 Direction of Traffic:	2	* 43 Structure Type Main:	1 04	* 248 County Continuity No.:	00
* 264 Road Inventory Mile Post:	004.33	45 No. Spans Main:	003		
* 208 Inspection Area: 01	Initials: JBC	44 Structure Type Appr:	0 00		
Engineer's Initial: sgm		46 No. Spans Appr:	0000		
		226 Bridge Curve Horz:	0 Vert: 0		
		111 Pier Protection:	0		
		107 Deck Structure Type:	1		
* Location I.D. No.:	013-00211D-004.33N	108 Wearing Surface Type:	1		
		M	0		
		F	8		

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 013-0016-0

Barrow

SUFF. RATING

48.08

Programming Data

201 Project No.: RAB (4) SP 1293 (2)
 202 Plans Available: 4
 249 Prop. Proj. No. BRG-0007-00(159)
 250 Approval Status: 0000
 251 P.I. No.: 0007159
 252 Contract Date: 02/01/1901
 260 Seismic No.: 00000
 75 Type Work: 34 1
 94 Bridge Imp. Cost: \$ 23
 95 Roadway Imp. Cost: \$ 156
 96 Total Imp Cost: \$ 237
 76 Imp. Length: 001440
 97 Imp. Year: 0000
 114 Future ADT: 004590 Year: 2027

Hydraulic Data

215 Waterway Data
 Highwater Elev.: 0000.0 Year: 1900
 Avg. Streambed Elev.: 0000.0 Freq.: 00
 Drainage Area: 00021
 Area Of Opening: 000975
 113 Scour Critical: U
 216 Water Depth: 1.7 Br. Height: 21.6
 222 Slope Protection: 1
 221 Spur Dikes Rear: 0 Fwd: 0
 219 Fender System: 0
 220 Dolphin: 0
 223 Culvert Cover: 000
 Type: 0
 No. Barrels: 0
 Width: 0.00 Height: 0.00
 Length: 0 Apron: 0
 * 265 U/W Insp. Area: 0 Diver: ZZZ
 * Location I.D. No.: 013-00211D-004.33N

Measurements

* 29 ADT: 003060 Year: 2007
 109 % Trucks: 0
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length: 0040
 * 49 Structure Length: 120
 51 Br. Rwdy. Width: 25.90
 52 Deck Width: 31.90
 * 47 Tot. Horz. Cl: 25.90
 50 Curb/Sdewlk Width: 2.00/2.00
 32 Approach Rdwy Width: 023
 * 229 Shoulder Width:
 Rear Lt: 2.20 Type: 2 Rt: 2.40
 Fwd Lt: 3.60 Type: 8 Rt: 4.00
 Pavement Width:
 Rear: 22.40 Type: 2
 Fwd: 23.20 Type: 2
 Intersection Rear: 0 Fwd: 0
 36 Safety Features Br. Rail: 2
 Transition: 2
 App. G. Rail: 2
 App. Rail End: 1
 53 Minimum Cl.Over: 99 ' 99 "
 Under: N 00 ' 00 "
 * 228 Min. Vertical Cl
 Act. Odm Dir: 99 ' 99 "
 Oppo. Dir: 99 ' 99 "
 Posted Odm. Dir: 00 ' 00 "
 Oppo. Dir: 00 ' 00 "
 55 Lateral Undercl. Rt: N 0.00
 56 Lateral Undercl. Lt: 0.00
 * 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: 6.00
 Deck Thick Approach: 0.00
 246 Overlay Thickness: 0.00
 212 Year Last Painted: Sup: 0000 Sub: 1985

Ratings

65 Inventory Rating Method: 1
 63 Inventory Rating Method: 1
 66 Inventory Type: 2 Rating: 15
 64 Operating Type: 2 Rating: 24
 231 Calculated Loads
 H-Modified: 21 1
 HS-Modified: 27 1
 Type 3: 23 1
 Type 3s2: 37 1
 Timber: 31 1
 Piggyback: 40 0
 261 H Inventory Rating: 11
 262 H Operating Rating: 19
 67 Structural Evaluation: 4
 58 Deck Condition: 6
 59 Superstructure Condition: 6
 * 227 Collision Damage: 0
 60A Substructure Condition: 6
 60B Scour Condition: 6
 60C Underwater Condition: N
 71 Waterway Adequacy: 8
 61 Channel Protection Cond: 5
 68 Deck Geometry: 2
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 7
 62 Culvert: N

Posting Data

70 Bridge Posting Required: 1
 41 Struct Open, Posted, Cl: P
 * 103 Temporary Structure: 0
 232 Posted Loads H-Modified: 21
 HS-Modified: 27
 Type 3: 23
 Type3s2: 37
 Timber: 31
 Piggyback: 00
 253 Notification Date 02/01/1901
 253 Fed Notify Date: 02/01/1901 0

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Component Report

District: 1
 Bridge Inspector: Brad Camp
 Location ID: 013-00211D-004.33N
 Structure ID: 013-0016-0

Inspection Date: 11/13/2009
 Over: BEECH CREEK
 County: Barrow
 Road Name: STATHAM ROAD

Inspection Area: 01

SubStructure Data

Bent#	Type	Foundation	Col	#Cols	Piling	#Piles	Sway	CAP	Remarks
1	A	DP		0		0		C	
2	B	DP		0	S	4		C	
3	B	DP		0	S	4	X	C	
4	A	DP		0		0		C	

SuperStructure Data

Span#	Beam Type	Spacing	Length	#Beams	Remarks
1	Concrete "T" Beam	7.30	40.00	4	18"W X 23"D
2	Concrete "T" Beam	7.30	40.00	4	18"W X 23"D
3	Concrete "T" Beam	7.30	40.00	4	18"W X 23"D

Bearing Data

Span#	Rear Type Bearing	FWD Type Bearing	Remarks
1	08 - Beam on Cap	08 - Beam on Cap	
2	08 - Beam on Cap	08 - Beam on Cap	
3	08 - Beam on Cap	08 - Beam on Cap	

GEORGIA DEPARTMENT OF TRANSPORTATION

Waterway Report

District: 1
Bridge Inspector: Brad Camp
Location ID: 013-00211D-004.33N
Structure ID: 013-0016-0

Inspection Date: 11/13/2009
Over: BEECH CREEK
County: Barrow
Road Name: STATHAM ROAD

Inspection Area: 01

Skew: 10

Span #:	1	2	3
Length:	40.0	40.0	40.0

Upstream -

Upstream +		1	2	3	4
12/08/1997	JAA		13.50	22.20	5.40
01/21/2000	GMC		11.40	19.90	4.10
11/01/2001	JBC		11.70	19.20	4.20
11/03/2003	JBC		11.80	19.40	6.00
11/03/2005	JBC		11.70	21.60	4.20
10/25/2007	TSP		12.40	20.70	5.10
11/13/2009	JBC		12.10	21.30	4.40

Downstream -

Downstream +		1	2	3	4
12/08/1997	JAA		13.30	21.00	6.00
01/21/2000	GMC		11.60	18.90	4.00
11/01/2001	JBC		12.20	19.20	4.20
11/03/2003	JBC		12.20	19.20	6.40
11/03/2005	JBC		11.80	19.40	4.20
10/25/2007	TSP		12.50	19.70	5.10
11/13/2009	JBC		11.90	19.80	4.30

GEORGIA DEPARTMENT OF TRANSPORTATION

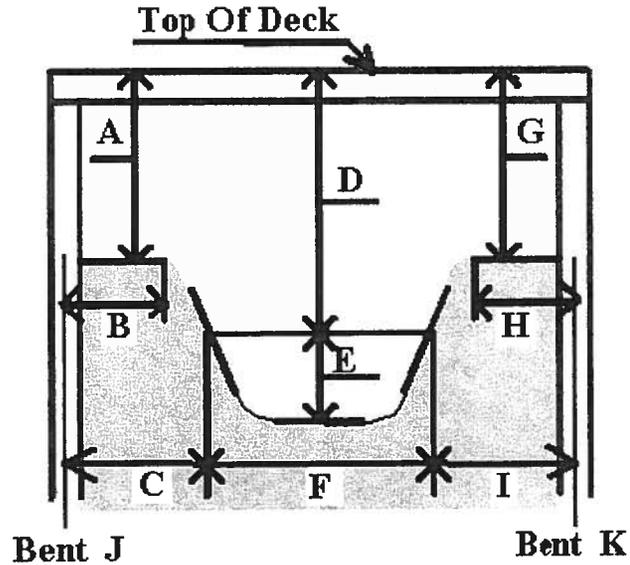
Waterway Report

District: 1
 Bridge Inspector: Brad Camp
 Location ID: 013-00211D-004.33N
 Structure ID: 013-0016-0

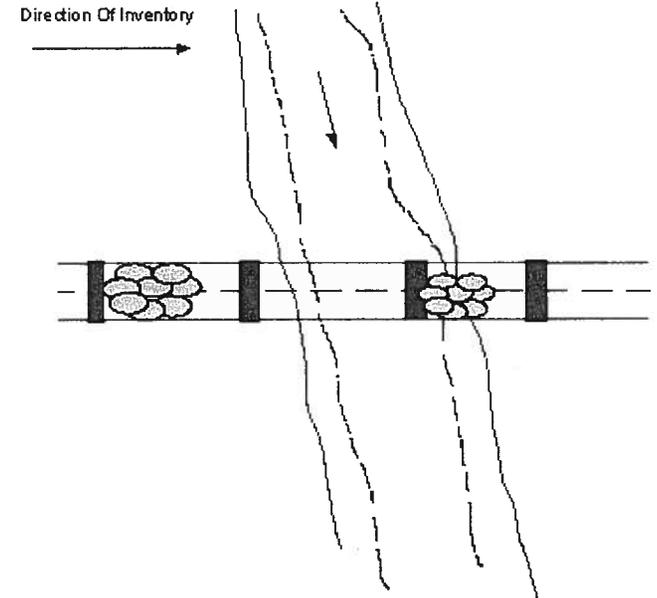
Inspection Date: 11/13/2009
 Over: BEECH CREEK
 County: Barrow
 Road Name: STATHAM ROAD

Inspection Area: 01

Skew: 10



- A: 12
- B: 42
- C: 50
- D: 21.6
- E: 1.7
- F: 35
- G: 14
- H: 28
- I: 35
- J: 1
- K: 4



Side view at the Channel.

B, C, H, & I are measured to center of bent or B.F.P.R.

Location of Bridge Height 1' rear of bent 3

Scour Condition: 6 Waterway Adequacy: 8 Channel Protection: 5

Comments:

10 = SubStructure
 10 = Channel Skew
 0 = Stream Angle

DOT 66

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(159) PI 0007159 **OFFICE** Gainesville
SR211 @ Beech Creek 6.8 Mi E. of Winder

FROM Chad Skogsberg, Design Engineer 2 **DATE** November 17, 2011

TO Project File

SUBJECT Concept Team Meeting Minutes

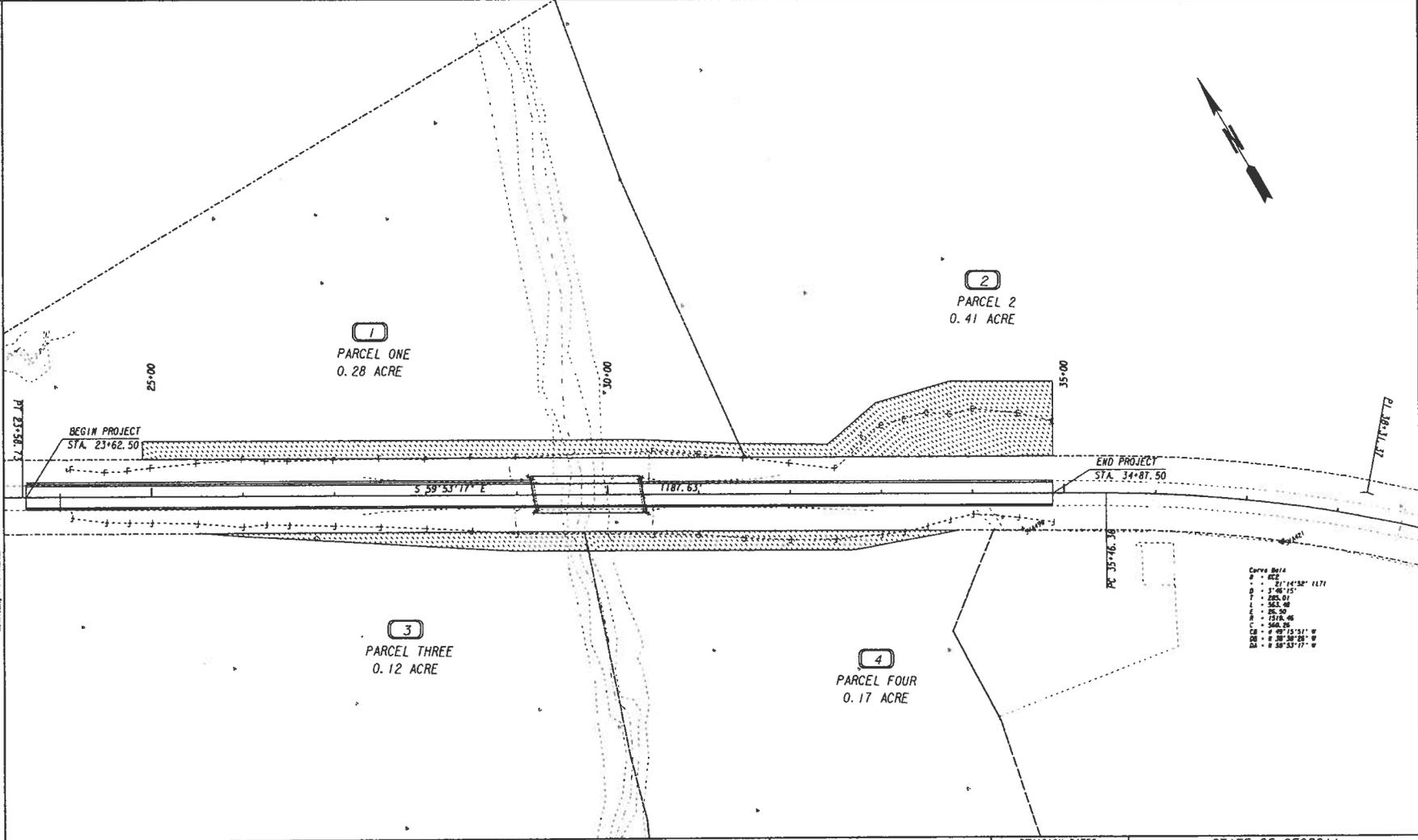
The Concept Team Meeting for the above stated project began with an overview of the Concept Report and an in depth description of the project. The following comments were recorded:

- The detour map for the project needs to be revised and a north arrow is to be placed in the map.
- A special provision for the burial of the old bridge structure needs to be added to the final construction plans.
- The project length of 1125 feet needs to be revised to show in miles.
- In the proposed project description, a note should be added to the typical section of a four foot flat bottom ditch.
- The existing year traffic should be updated to the year 2011.
- A question about the width of the existing right of way was brought up . This will be corrected and updated in the concept report.
- The width of the proposed right of way will be checked and updated in the concept report.
- The length of the environmental impacts was questioned. The length of environmental impacts will be revised to show 600 linear feet.

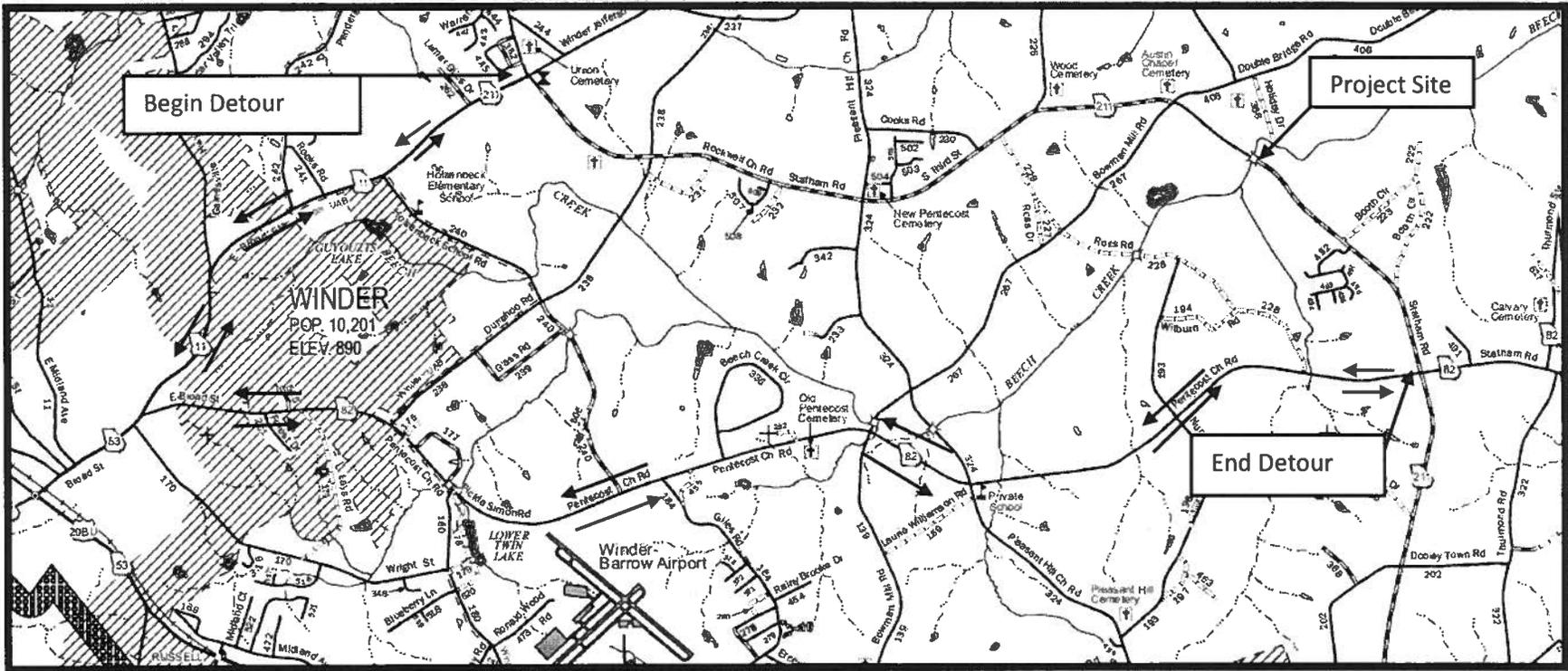
- A question about whether the entire projects utilities were covered was brought up. The utility plans will show all existing and proposed utilities.
- The project's forecasted schedule was brought up. The specific question about the time required to get a 404 permit was asked. The schedule will be adjusted if needed to reflect any impacts due to environmental, ROW, or utilities.
- Another question about the schedule was brought up. The decision was made that it would take nine months to purchase right of way.
- A question was asked about if a Fuel Asphalt Index was needed for the project.
- The District One Traffic Engineer commented that because of the offsite detour, an early coordination with: the school district, fire department, and the police department would be required.

The Concept Team Meeting started at 9:00 A.M. and concluded at 9:35 A.M.

10/18/2011 catagaberg	Tue Oct 18 15:32:17 2011 \\gdot-dsk1\gdp\g\resources\Gds\2007_kfp_181	L:\GDOT\camban\0007159_Borrow\DWG\0007159CPO1.dwg	STATE GA	PROJECT NUMBER CSBRG-0007-0011591	SHEET NO.	TOTAL SHEETS
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GEORGIA DEPARTMENT OF TRANSPORTATION	SCALE IN FEET 	REVISION DATES	STATE OF GEORGIA
			DEPARTMENT OF TRANSPORTATION
			OFFICE: DISTRICT ONE DESIGN
			MAINLINE PLAN
			S. R. 211 AT BEECH CREEK
			DRAWING NO. 13-01



PI 0007159 WALTON COUNTY
SR 211 AT BEECH CREEK
DETOUR ROUTE SR 82