

ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #0009865 **OFFICE** Design Policy & Support
N/A
GDOT District 4 - Tifton
Lee County **DATE** 11/29/2011
SR 118 @ Muckaloochee Creek

FROM *Rice* 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
Ben Rabun, State Bridge Engineer
Andy Casey, State Roadway Design Engineer
Attn: Clay Bastian, Design Group Manager
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Ron Wishon, State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Joe Sheffield, District Engineer
Brent Thomas, District Preconstruction Engineer
Timothy Warren, District Utilities Engineer
Derrick Brown, Project Manager
BOARD MEMBER - 2nd Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

PROJECT CONCEPT REPORT

Project Number: 0009865-CST
County: Lee
P. I. Number: 0009865
Federal Route Number: N/A
State Route Number: 118

Bridge Replacement
SR 118 @ Muckaloochee Creek
(See page 2 for Location Sketch)

Submitted for approval: (Submit to "Concept Reports" in Outlook)

DATE 10/4/11

C. Andy Casey
C. Andy Casey, P.E.; State Roadway Design Engineer

DATE 10/5/2011

Bobby Hilliard
Bobby Hilliard, P.E.; State Program Delivery Engineer

DATE 10/5/11

Derrick Brown
Derrick Brown; Project Manager

Recommendation for approval:

DATE _____

Jeff Baker, P.E.; State Utilities Engineer

DATE _____

Genetha Rice-Singleton; Program Control Administrator
GLENN BOWMAN * T.J.
Glenn Bowman, P.E.; State Environmental Administrator

DATE 10/21/2011

DATE _____

Kathy Zahul, P.E.; State Traffic Operations Engineer

DATE 10/6/2011

KON WISHON * T.J.
Ron Wishon; Project Review Engineer

DATE 10/7/2011

JOE SHEFFIELD * T.J.
Joe W. Sheffield, P.E.; District Engineer

DATE 11/7/2011

BEN RABUN * T.J.
Benjamin F. Rabun, P.E.; State Bridge Design Engineer

(DATE _____)

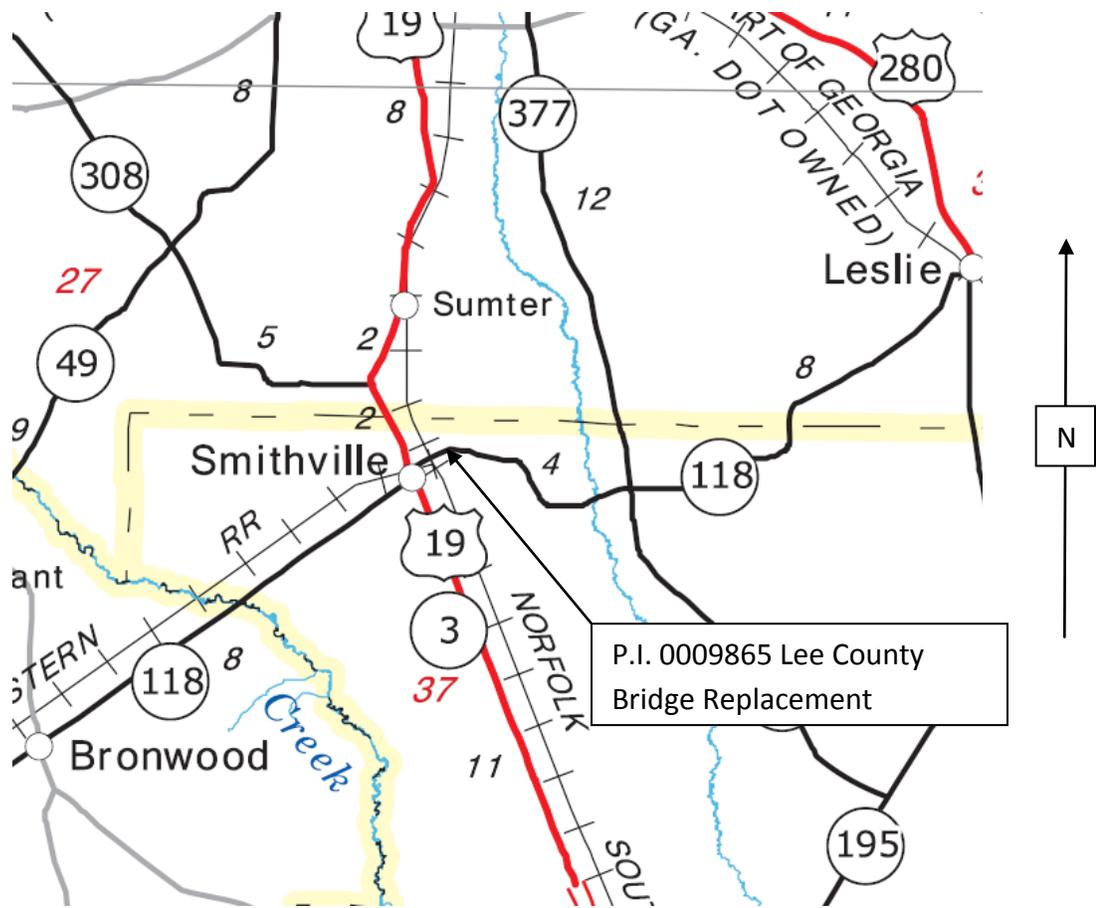
Angela D. Robinson;
State Transportation Financial Management Administrator

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

DATE 10-12-11

Cynthia L. Vandyke
Cynthia L. Vandyke;
State Transportation Planning Administrator

* RECOMMENDATION ON FILE



Location Sketch

Project Justification: The bridge at Muckaloochee Creek on SR 118 (Structure ID 177-0007-0, Sufficiency Rating of 45.58) was built in 1951 and consists of 3 spans of steel beams on a concrete cap and column substructure with spread footings. The deck is exhibiting moderate scaling while bent 3 substructure cap is exhibiting vertical cracking. Replacement of this structurally deficient bridge is recommended.

Description of the proposed project: The project will replace the substandard bridge at Muckaloochee Creek on SR 118. The project will replace the bridge in its existing location providing an offsite detour. Approximate project length is 0.10 mile.

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

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

PDP Classification: Minor

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

Functional Classification: Rural Major Collector

U. S. Route Number(s): N/A State Route Number(s): 118

Traffic (AADT):

Base Year: (2016) 1450 Design Year: (2036) 2350

Existing design features:

- Typical Section:
 - Roadway/Bridge – 2-11.5’ lanes with 2’ shoulder
- Posted speed 45 mph Minimum radius for curve: 1060 ft
- Maximum super-elevation rate for curve: 6 %
- Maximum grade: 5 %
- Width of right-of-way: 80 ft.
- Major structures:
 - Existing bridge over Muckaloochee Creek
 - Structure ID 177-0007-0
 - Width = Deck 30.0’ Bridge Roadway Width 23.80’
 - Length = 111’
 - Sufficiency Rating = 45.58

Proposed Design Features:

- Proposed typical section(s):
 - Roadway – 2-12’ lanes with 8’ shoulders
 - Bridge – 2-12’ lanes with 8’ shoulders total width 43.25’

- Proposed Design Speed Mainline 45 mph
- Proposed Maximum grade Mainline 2%
- Maximum grade allowable 7%
- Proposed Maximum grade Side Street N/A
- Maximum grade Side Street allowable N/A
- Proposed Maximum grade driveway N/A
- Proposed Minimum radius of curve N/A
- Minimum radius allowable 643 ft
- Maximum superelevation rate 6%
- Right-of-Way:
 - Width 80 ft
 - Easements: Temporary () Permanent (X) Utility () Other ().
 - Type of access control: Full () Partial () By Permit (X) Other ().
 - Number of parcels: 4 Number of displacements: 0
 - Business: 0
 - Residences: 0
 - Mobile homes: 0
 - Other: 0

- Structures:
 - 43.25' x 111' Proposed bridge over Muckaloochee Creek
- Transportation Management Plan Anticipated: Yes () No (X)
- Design Exceptions to controlling criteria anticipated:

	<u>YES</u>	<u>NO</u>	<u>UNDETERMINED</u>
HORIZONTAL ALIGNMENT:	()	(X)	()
LANE WIDTH:	()	(X)	()
SHOULDER WIDTH:	()	(X)	()
VERTICAL GRADES:	()	(X)	()
CROSS SLOPES:	()	(X)	()
STOPPING SIGHT DISTANCE:	()	(X)	()
SUPERELEVATION RATES:	()	(X)	()
VERTICAL ALIGNMENT:	()	(X)	()
SPEED DESIGN:	()	(X)	()
VERTICAL CLEARANCE:	()	(X)	()
BRIDGE WIDTH:	()	(X)	()
BRIDGE STRUCTURAL CAPACITY:	()	(X)	()
LATERAL OFFSET TO OBSTRUCTION:	()	(X)	()
- Design Variances
 - None
- Environmental concerns – None known
- Anticipated Level of environmental analysis:
 - Are Time Savings Procedures appropriate? Yes (X) No ()
 - Categorical exclusion anticipated (X).
 - Environmental Assessment/Finding of No Significant Impact anticipated (FONSI). ()

- Environmental Impact Statement (EIS) ()
- Utility involvements: Citizens Cable TV, Bellsouth, Georgia Power Company(Distribution) Non Reimbursable \$55,743.66
- VE Study Anticipated Yes () No (X)
- Benefit/Cost Ratio N/A
- Public Interest Determination Policy and Procedure Required? Yes () No (X)

Project Cost Estimate and Funding Responsibilities:

	PE	ROW	UTILITY	CST*	MITIGATION
By Whom	GDOT	GDOT	GDOT	GDOT	GDOT
\$ Amount	250,000.00	101,000.00	0.00	921,837.27	TBD

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

Project Activities Responsibilities:

- Design: Roadway Design
- Right-of-Way Acquisition: District 4 R/W Team (if required)
- Right-of-Way funding (real property): GDOT
- Relocation of Utilities: Utility Owners
- Letting to contract: Construction Bidding Administration
- Supervision of construction: District 4 Construction
- Providing material pits: Contractor
- Providing detours: GDOT directed Contractor sign
- Environmental Studies/Documents/Permits: Office of Environmental Services
- Environmental Mitigation: None anticipated

Coordination

- Concept meeting date and brief summary. 09/22/2011 (see attached minutes)
- P A R meetings. TBD
- FEMA, USCG, and/or TVA. None to date
- Public involvement. None to date
- Local government comments. None to date
- Other projects in the area. None

Scheduling – Responsible Parties’ Estimate

- Time to complete the environmental process: Begin 12/ 2011 End 11/ 2012
- Time to complete preliminary construction plans: Begin 12/ 2011 End 11/ 2012
- Time to complete right-of-way plans: Begin 12/ 2012 End 06/ 2013
- Time to complete the Section 404 Permit: Begin 04/ 2014 End 09/ 2014
- Time to complete final construction plans: Begin 01/ 2013 End 02/ 2014
- Time to complete to purchase right-of-way: Begin 08/ 2013 End 03/ 2014

PROJ. NO.: 009865-CST
P.I. NO. 0009865
DATE: 10/4/2011

Base Construction Cost	\$	873,192.00
E & I	5% \$	43,659.60
Construction Contingency	\$	-
Subtotal Construction Cost	\$	<u>916,851.60</u>
Liquid AC Adjustment (60 % cap)	\$	<u>4,985.67</u>
Total Construction Cost	\$	<u>921,837.27</u>

DETAILED COST ESTIMATE



Job: 0009865

JOB NUMBER: 0009865

FED/STATE PROJECT NUMBER

SPEC YEAR: 01

DESCRIPTION: SR 118 @ MUCKALOCHEE CREEK

ITEMS FOR JOB 0009865

0010 - ROADWAY

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$30,000.00	TRAFFIC CONTROL - CLOSE ROAD OFFSITE DETOUR	\$30,000.00
0010	153-1300	1.000	EA	\$52,631.38	FIELD ENGINEERS OFFICE TP 3	\$52,631.38
0015	210-0100	1.000	LS	\$140,000.00	GRADING COMPLETE - 300CY	\$140,000.00
0020	310-1101	35.000	TN	\$28.47	GR AGGR BASE CRS, INCL MATL	\$996.31
0025	402-3101	43.000	TN	\$85.70	REC AC 9.5 MM SP,TPI, BL 1 INCL BM & HL	\$3,685.09
0035	402-3121	172.000	TN	\$77.65	RECYL AC 25MM SP,GP1/2,BM&HL	\$13,356.16
0030	402-3190	69.000	TN	\$89.72	RECYL AC 19 MM SP,GP 1 OR 2 .INC BM&HL	\$6,190.76
0040	413-1000	88.000	GL	\$3.84	BITUM TACK COAT	\$338.29
0045	433-1100	160.000	SY	\$120.82	REF CONC APPR SL/INCL CURB	\$19,331.08
0050	641-1100	58.000	LF	\$71.00	GUARDRAIL, TP T	\$4,118.00
0055	641-1200	800.000	LF	\$17.50	GUARDRAIL, TP W	\$14,000.00
0060	641-5001	2.000	EA	\$710.00	GUARDRAIL ANCHORAGE, TP 1	\$1,420.00
0065	641-5012	2.000	EA	\$1,950.00	GUARDRAIL ANCHORAGE, TP 12	\$3,900.00
SUBTOTAL FOR ROADWAY:						\$289,967.07

0020 - BRIDGE

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0070	540-1101	1.000	LS	\$61,250.00	REM OF EX BR, STA NO - REMOVE EXISTING BRIDGE	\$61,250.00
0075	543-9000	1.000	LS	\$480,075.00	CONSTR OF BRIDGE COMPLETE - CONSTRUCT BRIDGE COMPLETE 4801SF	\$480,075.00
SUBTOTAL FOR BRIDGE:						\$541,325.00

0030 - SIGNING & MARKING

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0080	636-1041	50.000	SF	\$40.00	HWY SIGNS,TP 2MAT,REFL SH TP 9	\$2,000.00
0085	636-2070	100.000	LF	\$10.00	GALV STEEL POSTS, TP 7	\$1,000.00
0090	653-1501	400.000	LF	\$1.00	THERMO SOLID TRAF ST 5 IN, WHI	\$400.00
0095	653-1502	400.000	LF	\$1.00	THERMO SOLID TRAF ST, 5 IN YEL	\$400.00
0100	654-1001	50.000	EA	\$5.00	RAISED PVMT MARKERS TP 1	\$250.00
0105	657-1054	350.000	LF	\$5.00	PRF PL SD PVMT MKG,5",WH,TP PB	\$1,750.00
0110	657-6054	350.000	LF	\$5.00	PRF PL SD PVMT MKG,5",YW,TP PB	\$1,750.00
SUBTOTAL FOR SIGNING & MARKING:						\$7,550.00

0040 - TEMPORARY EROSION CONTROL

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0115	163-0232	1.000	AC	\$600.00	TEMPORARY GRASSING	\$600.00
0120	163-0240	10.000	TN	\$250.00	MULCH	\$2,500.00
0125	163-0300	2.000	EA	\$1,800.00	CONSTRUCTION EXIT	\$3,600.00
0130	163-0527	8.000	EA	\$300.00	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$2,400.00
0135	165-0030	1500.000	LF	\$1.50	MAINT OF TEMP SILT FENCE, TP C	\$2,250.00
0140	165-0040	8.000	EA	\$100.00	MAINT OF EROSION CTRL CHKDAMS/DITCH CHKS	\$800.00
0145	165-0101	2.000	EA	\$700.00	MAINT OF CONST EXIT	\$1,400.00
0150	167-1000	2.000	EA	\$900.00	WATER QUALITY MONITORING AND SAMPLING	\$1,800.00
0155	167-1500	12.000	MO	\$1,000.00	WATER QUALITY INSPECTIONS	\$12,000.00
0160	171-0030	1500.000	LF	\$4.00	TEMPORARY SILT FENCE, TYPE C	\$6,000.00
SUBTOTAL FOR TEMPORARY EROSION CONTROL:						\$33,350.00

0050 - PERMANENT EROSION CONTROL

LINE	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0165	700-6910	1.000	AC	\$1,000.00	PERMANENT GRASSING	\$1,000.00
SUBTOTAL FOR PERMANENT EROSION CONTROL:						\$1,000.00

DETAILED COST ESTIMATE



Job: 0009865

TOTALS FOR JOB 0009865

ITEMS COST:	\$873,192.07
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$873,192.07
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$873,192.07

PROJ. NO.

[Empty box]

CALL NO.

P.I. NO.

0009865

DATE

10/4/2011

INDEX (TYPE)

DATE

INDEX

REG. UNLEADED

Sep-11 \$ 3.582

DIESEL

\$ 3.873

LIQUID AC

\$ 570.00

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)

4856.4

\$

4,856.40

Monthly Asphalt Cement Price month placed (APM)

912.00

\$

Monthly Asphalt Cement Price month project let (APL)

570.00

\$

Total Monthly Tonnage of asphalt cement (TMT)

14.2

ASPHALT

Leveling	Tons	%AC	AC ton
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	43	5.0%	2.15
25 mm SP	172	5.0%	8.6
19 mm SP	69	5.0%	3.45
	284		14.2

BITUMINOUS TACK COAT

Price Adjustment (PA)

129.27

\$

129.27

Monthly Asphalt Cement Price month placed (APM)

912.00

\$

Monthly Asphalt Cement Price month project let (APL)

570.00

\$

Total Monthly Tonnage of asphalt cement (TMT)

0.377968881

Bitum Tack

Gals	gals/ton	tons
88	232.8234	0.37796888

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 7/22/2011 Project: Bridge Replacement
 Revised: County: Lee
 PI: 0009865

Description: Bridge replacement SR 118 @ Muckaloochee Creek
 Project Termini: Bridge replacement SR 118 @ Muckaloochee Creek

Existing ROW: Vary
 Required ROW: Vary
 Parcels: 4

Land and Improvements \$13,200.00

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$2,500.00

Valuation Service \$4,000.00

Legal Services \$40,200.00

Relocation \$8,000.00

Demolition \$0.00

Administrative \$35,500.00

TOTAL ESTIMATED COSTS \$100,900.00

TOTAL ESTIMATED COSTS (ROUNDED) \$101,000.00

Preparation Credits	Hours	Signature

Prepared By: Leshae Alexander CG#: _____ (DATE) _____
 Approved By: Garth Alexander CG#: 286999 (DATE) 07/22/11

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

**Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet**

Project/County/PI

Bridge Replacement Lee

0009865

	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	\$7,000.00	\$0.00	\$0.00
4 Fee Simple Area (ac)	0.00	0.90	0.00	0.00
5 Fee Simple Estimate	\$0.00	\$6,300.00	\$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 Esmt 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	\$2,500.00	\$0.00	\$0.00
16 Trade Fixtures	\$0.00	\$0.00	\$0.00	\$0.00
17				
18 PROPERTY TYPE TOTALS	\$0.00	\$8,800.00	\$0.00	\$0.00
19	SUB TOTAL PROPERTY TYPES			\$8,800.00
20	Counter Offers and Condemnation Increases			\$4,400.00
21				
22	GRAND TOTAL LANDS AND IMPROVEMENTS			\$13,200.00

**Georgia Department of Transportation
Preliminary ROW Cost Estimate Worksheet**

Project/County/PI

Bridge Replacement Lee

0009865

	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

Bridge Replacement Lee

0009865

	A	B	C	D
Legal Services	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

Bridge Replacement Lee

0009865

	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

Bridge Replacement Lee

0009865

	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

Bridge Replacement Lee

0009865

	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

Project No: 00009865-CST
 County: LEE
 P.I. #: 0009865

OFFICE: Tifton
 DATE: August 29, 2011

Description: SR 118 @ MUCKALOCHEE CREEK

rw
 FROM Tim Warren, P.E., District Utilities Engineer

TO Brown, Derrick M., Project Manager

SUBJECT UTILITY COST ESTIMATE

A review of utilities located on the above referenced project has been conducted . Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

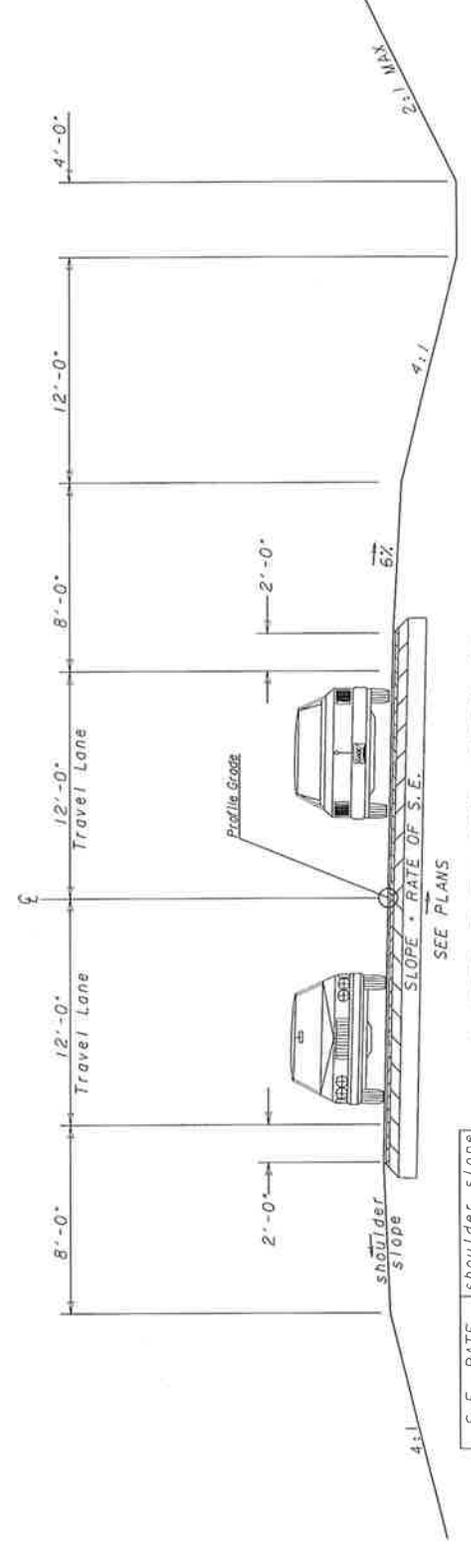
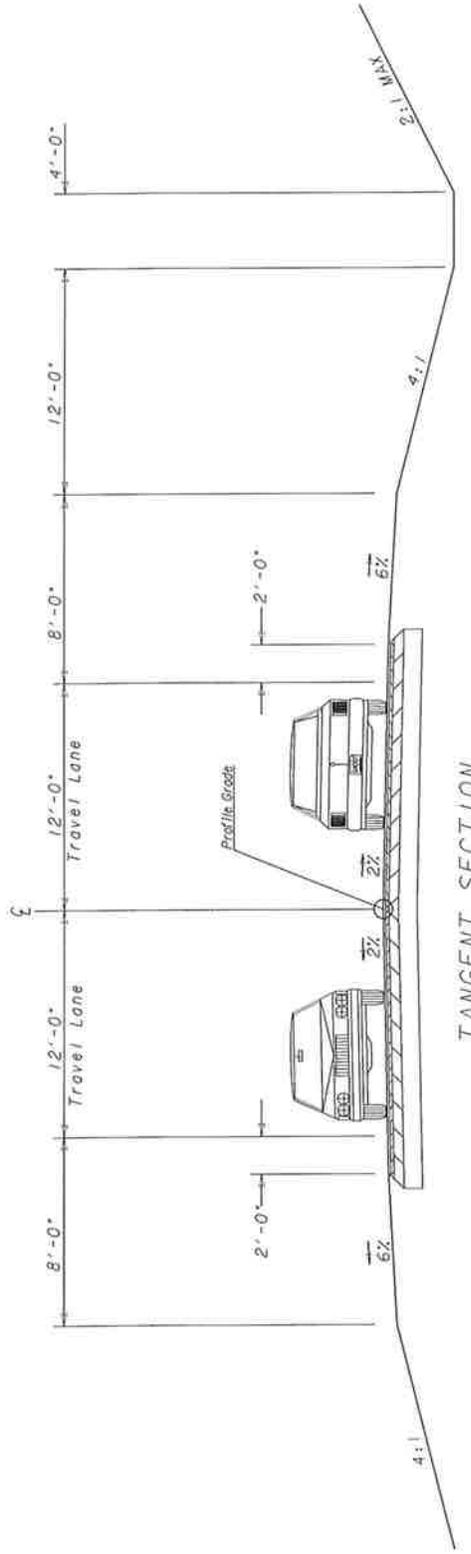
<u>Utility Owner</u>	<u>Reimbursable</u>	<u>Non-Reimbursable</u>	<u>Estimate Based on</u>
Citizens Cable TV	\$0.00	\$12,209.62	Site Visit / Available Drawings
Bellsouth	\$0.00	\$15,534.04	Site Visit / Available Drawings
Georgia Power Company (Dist)	\$0.00	\$28,000.00	Site Visit / Available Drawings
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
	\$0.00	\$0.00	
Total	\$ 0.00	55,743.66	

**** Indicates Potential Utility Aid Request from Local Gov't**

If additional information is needed, please contact me or Ken Cheek, Utilities Engineer at (229) 386-3288.

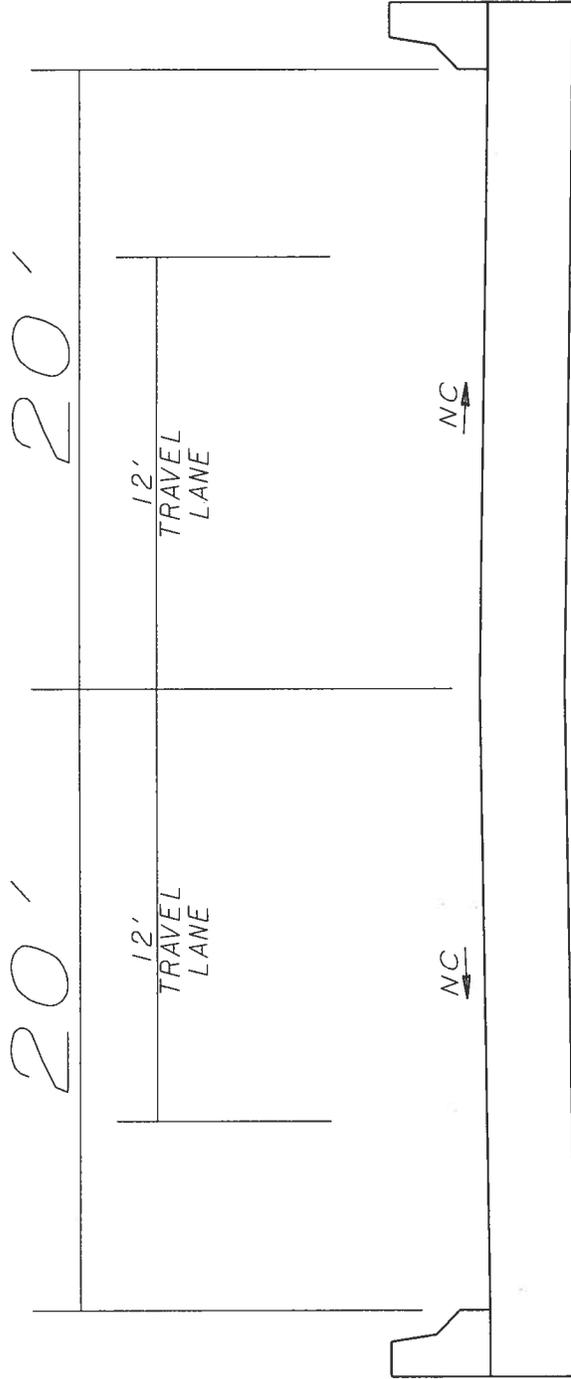
TW:KC


 c: Jeff Baker, P.E., State Utilities Engineer
 Brent Thomas, District Preconstruction Engineer
 Angela Robinson, State Financial Management Administrator



S. E. RATE	shoulder slope
2.0% OR 3.0%	4.0%
4.0% OR 5.0%	2.0%
6.0% OR 7.0%	1.0%
8.0% +	0.0%

P. I. 009865
 SR 118 @ MUCKALOOCHEE CREEK



BRIDGE

P. I. 009865
SR 118 @ MUCKALOOCHEE CREEK

NO BUILD ADT = BUILD ADT
Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. # 0009865, Lee County **OFFICE** Planning
DATE June 14, 2011

FROM Cindy VanDyke, State Transportation Planning Administrator

TO Joe W. Sheffield, District Engineer
Attention: Clay C. Bastian

SUBJECT Traffic Assignment for SR 118 @ Muckaloochee Creek

We are furnishing estimated Traffic Assignment for the above project as follows:

TC # 0058
2009 ADT = 1200
2016 ADT = 1450
2036 ADT = 2350
2009 DHV = 110
2016 DHV = 130
2036 DHV = 215
K = 9%
D = 60%
T = 23%
S.U. T = 16%
COMB. T = 7%
24-HOUR T. = 26%
S.U. = 17.5%
COMB. = 8.5%

If you have any questions concerning this information please contact
Leslie Woods at (404) 631-1773 or Kunle Adebola (404) 631-1959.

Traffic Projections/Forecasting Summary Sheet

P.I.# 0009865

Lee County

Year the counts were taken= 2009

Growth Factors

Existing Year to Base Year = 3.0%

Base Year to Design Year = 2.5%

K = 9%

D = 60%

Build

Growth for Build

Existing to Base Year 3.0%

Base to Design Year 2.5%

K = 9%

No Build

Growth for No Build

Existing to Base Year 3.0%

Base to Design Year 2.5%

K = 9% (No Build)

Assumptions

- ARC proposed and assumed between 3% and 3.5% growth rate.
- Historical data assumed a fluctuating growth rate between 1% and 3.2%.



Processed Date: 6/7/2011
 Parameters: Bridge Serial Num

Bridge Inventory Data Listing

Structure ID: 177-0007-0

Lee

SUFF. RATING: 45.58

Location & Geography

Structure ID: 177-0007-0
 200 Bridge Information: 06
 *5A Feature Int: MUCKALOOCHEE CREEK
 *5B Critical Bridge: 0
 *7A Route No Carried: SR00118
 *7B Facility Carried: SR 118
 9 Location: APP .5 MI E OF SMITHVILLE
 2 Dot District: 4
 207 Year Photo: 2010
 *91 Inspection Frequency: 24 Date: 02/09/2010
 92A Fract Cr't Insp Freq: 0 Date: 02/01/1901
 92B Underwater Insp Freq: 1 Date: 08/04/2010
 92C Other Spc. Insp Freq: 0 Date: 02/01/1901
 *4 Place Code: 71464
 *5 Inventory Route(O/U): 1
 Type: 3
 Designation: 1
 Number: 00118
 Direction: 0
 *16 Latitude: 31 54.4143 HMMS Prefix: SR
 *17 Longitude: 84 -14.7010 HMMS Suffix: 00 MP-4.58
 98 Border Bridge: 000% Shared: 00
 99 ID Number: 0000000000000000
 *100 STRAIGHTNET: 0
 12 Base Highway Network: 1
 13A LRS Inventory Route: 1771011800
 13B Sub Inventory Route: 0
 101 parallel Structure: N
 *102 Direction of Traffic: 2
 *264 Road Inventory Mile Post: 004.49
 *208 Inspection Area: 4 Initials: EFP
 Engineer's Initials: sgm
 * Location ID No: 177-00118D-004.58E

Signs & Attachments

*104 Highway System: 0
 *26 Functional Classification: 07
 *204 Federal Route Type: S No: 00526
 105 Federal Lands Highway: 0
 *110 Truck Route: 0
 2006 School Bus Route: 1
 217 Benchmark Elevation: 0290.61
 218 Datum: 1
 *19 Bypass Length: 10
 *20 Toll: 3
 *21 Maintenance: 01
 *22 Owner: 01
 *31 Design Load: 2
 37 Historical Significance: 5
 205 Congressional District: 02
 27 Year Constructed: 1951
 106 Year Reconstructed: 0000
 33 Bridge Medium: 0
 34 Skew: 00
 35 Structure Flared: 0
 38 Navigation Control: 0
 213 Special Steel Design: 0
 267 Type of Paint: 2
 *42 Type of Service On: 1
 Type of Service Under: 5
 214 Movable Bridge: 0
 203 Type Bridge: D
 259 Pile Encasement: 3
 *43 Structure Type Main: 3 02
 45 No.Spans Main: 003
 44 Structure Type Appr: 0 00
 46 No Spans Appr: 0000
 226 Bridge Curve Horiz: 0 Vert: 0
 111 pier Protection: 0
 107 Deck Structure Type: 1
 108 Wearing Structure Type: 1
 Membrane Type: 0
 Deck Protection: 0
 225 Expansion Joint Type: 02
 242 Deck Drains: 1
 243 Parapet Location: 0
 Height: 0
 Width: 0
 238 Curb Height: 1
 Curb Material: 1
 239 Handrail: 11
 *240 Medium Barrier Rail: 0
 241 Bridge Median Height: 0
 * Bridge Median Width: 0
 230 Guardrail Loc. Dir. Rear: 3
 Fwd: 3
 Oppo. Dir. Rear: 0
 Oppo. Fwd: 0
 244 Approach Slab: 3
 224 Retaining Wall: 0
 233 Posted Speed Limit: 45
 236 Warning Sign: 1.00
 234 Delineator: 1.00
 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



Bridge Inventory Data Listing

Processed Date: 6/7/2011
 Parameters: Bridge Serial Num

Structure ID: 177-0007-0

Programming Data

201 Project No. S-0526 (2)
 202 Plans Available. 4
 249 Prop Proj No. 0009865
 250 Approval Status: 0000
 251 PI Number: 0009865
 252 Contract Date: 02/01/1901
 260 Seismic No. 00000
 75 Type Work: 00 0
 94 Bridge Imp. Cost: \$0
 95 Roadway Imp. Cost: 0
 96 Total Imp Cost: 0
 76 Imp Length: 000000
 97 Imp Year: 0000
 114 Future ADT: 001350 Year: 2027

Measurements:

*29 ADT 000900 Year: 2007
 109% Trucks 0
 *28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 *48 Max. Span Length 0037
 *48 Structure Length: 111
 51 Br. Rdwy. Width 23.80
 52 Deck Width: 30.00
 *47 Tot. Horiz. Cl: 24
 50 Curb / Sidewalk Width 2.00 / 2.00
 32 Approach Rdwy. Width 024
 *229 Shoulder Width:
 Rear Lt: 2.00 Type: 2 Rt: 2.00
 Fwd. Lt: 2.00 Type: 2 Rt: 2.00

Hydraulic Data

215 Waterway Data:
 High Water Elev: 0281.1 Year: 1972
 Flood Elev: 0000.0 Freq: 00
 Avg Streambed Elev 0274.8
 Drainage Area: 00000
 Area of Opening: 001392
 113 Scour Critical U
 216 Water Depth: 08.0 Br. Height: 09.8
 222 Slope Protection: 6
 221 Slope Protection 0 Fwd: 0
 219 Fender System 0
 220 Dolphin: 0
 223 Current Cover: 000
 Type: 0
 No. Barrels: 0
 * Width: 0.00 Height: 0.00
 * Length: 0 Apron: 0
 265 U/W Insp. Area 2 Diver: JWO
 Location ID No: 177-00118D-004.59E

65 Inventory Rating Method: 1
 63 Operating Rating Method: 1
 66 Inventory Type: 2 Rating: 13
 64 Operating Type: 2 Rating: 13
 231 Calculated Loads:
 H-Modified 12 0
 HS-Modified: 13 0
 Type 3: 12 0
 Type 3s2: 19 0
 Timber: 15 0
 Piggyback: 24 0
 261 H Inventory Rating: 11
 262 H Operating Rating 18
 67 Structural Evaluation: 2
 58 Deck Condition: 7
 59 Superstructure Condition: 7
 * 227 Collision Damage: 0
 60A Substructure Condition: 7
 60B Scour Condition: 7
 60C Underwater Condition 7
 71 Waterway Adequacy: 8
 61 Channel Protection Cond.: 8
 68 Deck Geometry: 4
 69 UnderClr. HorzVert: N
 72 Appr. Alignment: 5
 62 Culvert: N
Posting Data
 70 Bridge Posting Required 5
 41 Struct Open, Posted, Cl: A
 * 103 Temporary Structure: 0
 232 Posted Loads
 H-Modified: 00
 HS-Modified: 00
 Type 3: 00
 Type 3s2: 00
 Timber: 00
 Piggyback 00
 253 Notification Date: 02/01/1901
 258 Fed Notify Date: 2/1/1901 12:00:00AA

Lee County, SR 118 milelogs 4.38-4.78
For Year(s): 2005,2006,2007,2008,2009

Year	County	Route Type	Route Number	Beginning Milelog	Ending Milelog	No. Accidents	No. Vehicles	No. Injuries	No. Fatalities
2005	Lee	State Route	011800	4.38	4.78	0	0	0	0
2005 Subtotal						0	0	0	0
2006	Lee	State Route	011800	4.38	4.78	0	0	0	0
2006 Subtotal						0	0	0	0
2007	Lee	State Route	011800	4.38	4.78	0	0	0	0
2007 Subtotal						0	0	0	0
2008	Lee	State Route	011800	4.38	4.78	0	0	0	0
2008 Subtotal						0	0	0	0
2009	Lee	State Route	011800	4.38	4.78	0	0	0	0
2009 Subtotal						0	0	0	0
All Year(s)Total						0	0	0	0

CONCEPT TEAM MEETING MINUTES

PI 0009856 – Lee County

Bridge Replacement on SR 118 over Muckaloochee Creek

The concept team meeting for Georgia DOT project in Lee County, P.I. 0009865 was held at 10:00 A.M. on the 22nd day, September 2011 with Derrick M. Brown, Project Manager from the Office of Program Delivery officiating. Team members present were:

Clay Bastian, Design Phase Leader
Walter Taylor, Lead Design Engineer
Zach Crumley, Area Engineer
Scott Chambers, District Construction Engineer
Ken Cheek, District Utilities Engineer
Donna Garrison, Design Review Engineer
Geno Hasty, District Traffic Operations Manager
Cindy Treadway, Transportation Environmental Planner
Bob Alexander, Lee County
Michael Sistauk, Lee County
Allen Braddy, Citizens Telephone/Cable
Tony Cravey, Assistant District Construction Engineer
Jennifer Newton, DARTS MPO
Brent Thomas, District Preconstruction Engineer
Shane Pridgen, District Planning & Programming Engineer
Derrick Brown, Project Manager

The following constitutes the minutes for the concept team meeting held on the 22nd day, September, 2011. These minutes are a summary in nature and do not attempt to document every item discussed nor statement made. Should your recollection differ from what is contained herein or you wish to add something, please contact Derrick M. Brown at 404.631.1571, or via e-mail at dbrown@dot.ga.gov.

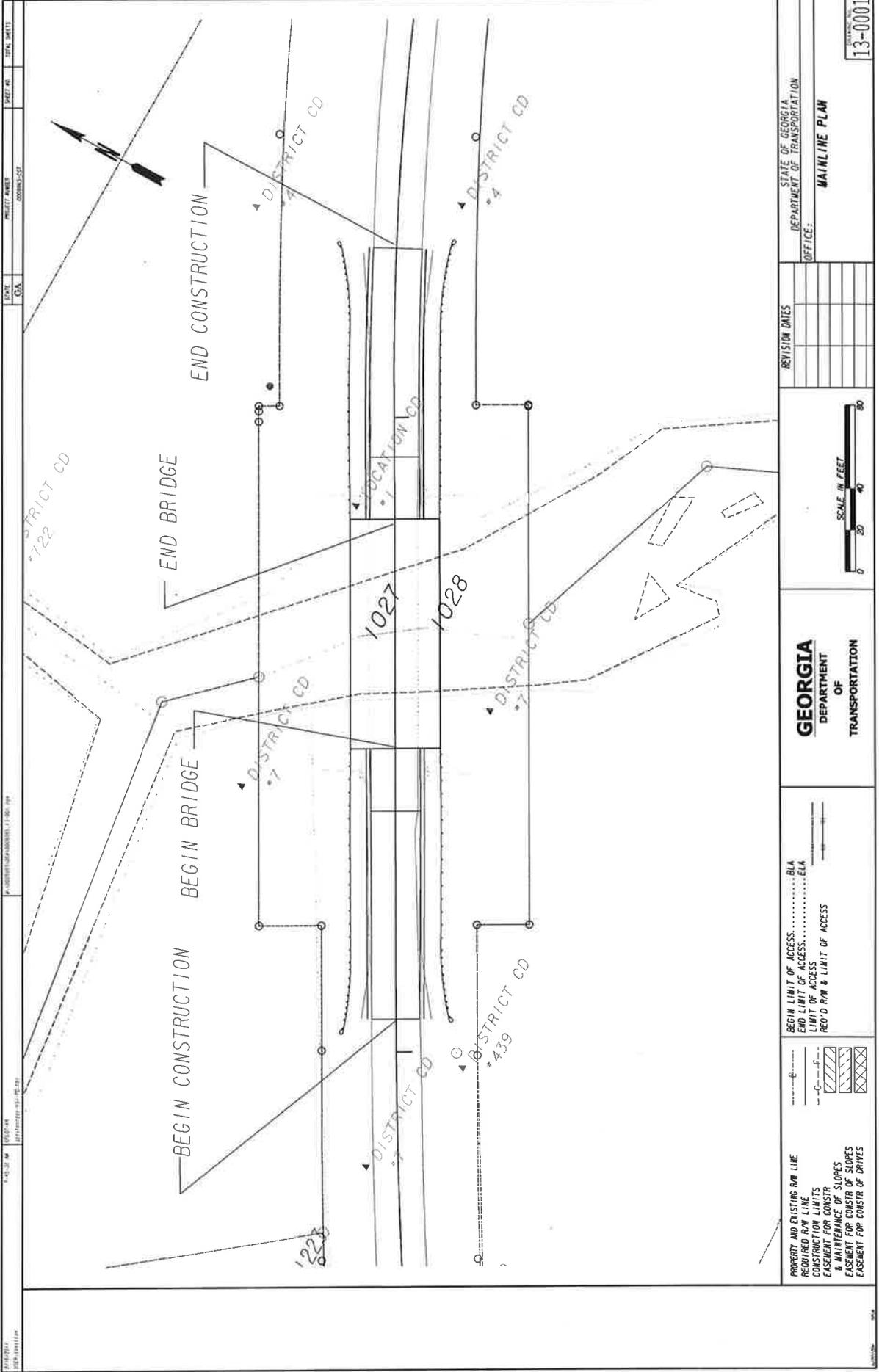
The meeting began at approximately 10:00 A.M.

The project will replace the substandard bridge at Muckaloochee Creek on SR118. The project will construct a new bridge in the existing location providing an off- site detour.

- I. The project is in the S.T.I.P., with ROW approved for FY 2015 and CST approved for FY 2017.
- II. Following the draft concept report review, comments and questions were requested from members present. Such comments have been listed below and are categorized by department.
 - a. **Planning:** No Comment

- b. **Office of Financial Management:** No Personnel Present
- c. **Environmental:** No history or archeology present. An ecological study has not been completed and will require 1 year to finish. The PIOH and detour meeting could take place at the same time.
- d. **Utilities:** There is a lift station on west end of the project and design should avoid impacts to the station.
- e. **Right of Way:** No Personnel Present
- f. **Traffic Operations:** No Comment
- g. **Preconstruction:** Detour PIOH meeting requirement will need to be listed in Concept Report. Have concerns about length of off-site detour. The use of State Route as a detour totals approximately 26 miles. If the Local EMS, School Buses, Farmers, and residents choose to use alternate local roads to get to the other side of the creek, then they would still have to travel a distance of approximately 8.5 miles.
- h. **Construction:** This type of project typically takes 12-18 months to complete. The roadway closure could be reduced to 9 months. If endangered species is found during the ecological study the schedule would be affected.
- i. **Maintenance:** No Personnel Present
- j. **Location:** No Personnel Present
- k. **Bridge Design:** No Personnel Present
- l. **Metropolitan Planning Organization:** No Comment
- m. **County:** No Comment
- n. **City:** No Personnel Present

III. The meeting was adjourned at approximately 10:30 A.M. A follow up field inspection was not done.



PROJECT NUMBER: 000000-001
 SHEET NO.: 0A
 TOTAL SHEETS: 13-0001

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE:

REVISION DATES

NO.	DATE	DESCRIPTION

SCALE IN FEET
 0 20 40 60

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS.....
 RED'D R/W & LIMIT OF ACCESS

PROPERTY AND EXISTING R/W LINE
 REQUIRED R/W LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR
 & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

MAINLINE PLAN

13-0001