ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #122017-
BHF00-0012-01(082)
Forsyth County
GDOT District 1 - Gainesville
Bridge Replacement - SR369 @ Two Mile Creek

OFFICE Design Policy & Support

DATE 5/29/2015

FROM for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED LOCATION & DESIGN REPORT**

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Glenn Bowman, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Paul Tanner, State Transportation Data Administrator
Attn: Systems & Classification Branch
Richard Cobb, Location Bureau Chief
Brent Cook, District Engineer
Brandon Kirby, District Preconstruction Engineer
Justin Lott, District Planning & Programming Engineer
Matthew Needham, Area Engineer - D1, A1
Steven Heng, Project Manager
BOARD MEMBER - 9th Congressional District

P.I. No. 122017
Request for Location & Design Approval

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTEROFFICE CORRESPONDENCE
LOCATION AND DESIGN REPORT

FILE: P.I. No. 122017
BHF00-0012-01(082), Forsyth County
S.R. 369 over Two Mile Creek Bridge Replacement

OFFICE: Program Delivery

DATE: May 12, 2015

FROM: Albert V. Shelby III, State Program Delivery Engineer

TO: Brent A. Story, P.E., State Design Policy Engineer
Attn: Dave Peters, State Conceptual Design Group Manager

SUBJECT: **Request for Location and Design Approval**

Description and Project Proposal: Project with P.I. No. 122017 in Forsyth County represents the construction of a new two lane bridge over Two Mile Creek (Lake Lanier) approximately 9.1 miles northeast of the City of Cumming. The project will replace the existing bridge that currently exists at this location, which has a sufficiency rating of 33.53. The project will begin at a point approximately 0.34 miles west of Two Mile Creek and extend to a point approximately 0.39 miles east of Two Mile Creek. The project length is approximately 0.73 miles. The proposed bridge will consist of two 12-foot lanes with 8-foot shoulders. The roadway approaches will be reconstructed to provide two 12-foot lanes and 10-foot shoulders. The shoulder will include a 4-foot paved shoulder.

Concept Approval Date: June 18, 2013.

Concept Update: N/A

Environmental Document:
Document Type: Categorical Exclusion Approval Date: May 4, 2015

Temporary State Route Needed: ☒ No ☐ Yes ☐ Undetermined

Public Involvement:

A Public Information Open House (PIOH) was held May 22, 2012.

- A total of 100 people attended

- A total of 7 people commented with 4 in support, 1 opposed, and 2 expressed conditional support
- The major concerns raised at the above PIOH were:
    1. The new bridge isn't required as the existing bridge seems to handle the current loads
    2. The new bridge should have an additional 6 feet of boat clearance
    3. The project did not start soon enough
    4. The bridge and roadway should be four lanes from Gainesville to Cartersville
    5. Traffic disruptions during the construction of the project
    6. An increase in noise levels as a result of the project
- No major changes were made as a result of the PIOH.

Consistency with Approval Planning: The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: Recommend that the Location and Design for the project be approved and that the attached Notice be approved for advertising.

CONCUR: _____
GDOT Director of Engineering

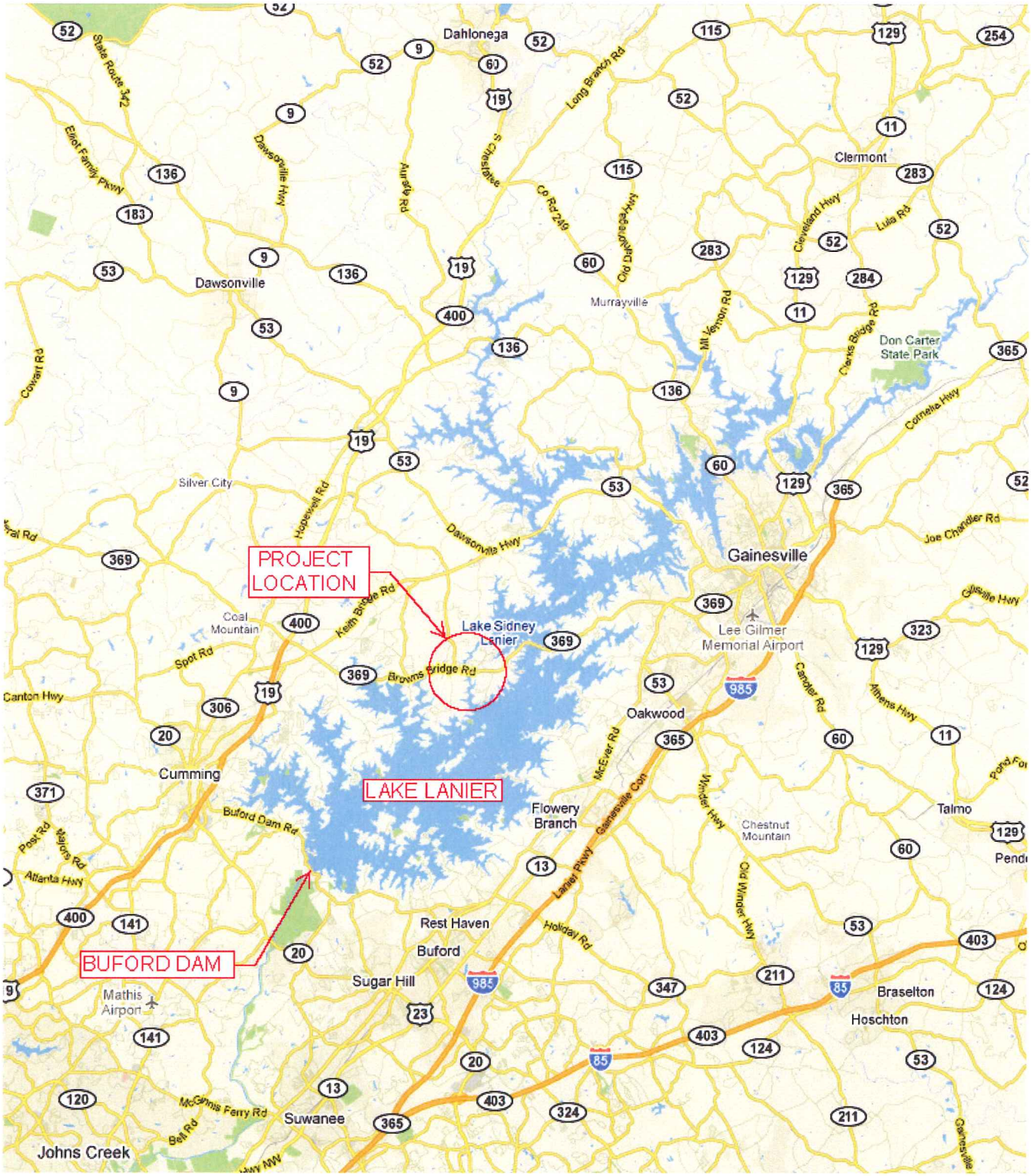
APPROVE: _____ 5.27.15
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: May 29, 2015
(To be entered by State Conceptual Design Group Manager)

- Attachments:
    - Location Map
    - Construction Cost Estimate (Risk Contingency)
    - Utility Estimate
    - Right of Way Estimate
    - Notice of Location and Design Approval

P.I. No. 122017
Request for Location & Design Approval

Project Location Map
Project No. BHF00-0012-01(082)



DATE : 02/23/2015
PAGE : 1

JOB DETAIL ESTIMATE

JOB NUMBER : 122017 SPEC YEAR: 01
DESCRIPTION: BRIDGE REPLACEMENT ON SR 369 @ TWO MILE CREEK

ITEMS FOR JOB 122017

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 122017	1.000	150000.00	150000.00
0008	150-5010		EA	TRAF CTRL,PORTABLE IMPACT ATTN	5.000	6292.91	31464.59
0009	153-1100		EA	FIELD ENGINEERS OFFICE TP 1	1.000	56886.21	56886.21
0010	208-0200		CY	ROCK EMBANKMENT	4200.000	29.09	122215.55
0015	210-0100		LS	GRADING COMPLETE - 122017	1.000	750000.00	750000.00
0020	310-1101		TN	GR AGGR BASE CRS, INCL MATL	8500.000	19.67	167206.90
0025	402-1812		TN	RECYL AC LEVELING,INC BM&HL	1200.000	85.80	102971.14
0030	402-3113		TN	RECYL AC 12.5MM SP,GP1/2,BM&HL	1650.000	65.61	108256.50
0035	402-3121		TN	RECYL AC 25MM SP,GP1/2,BM&HL	4650.000	68.90	320402.90
0040	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	1600.000	80.18	128290.16
0045	413-1000		GL	BITUM TACK COAT	1800.000	2.58	4649.27
0049	432-0206		SY	MILL ASPH CONC PVMT/ 1.50" DEP	5200.000	2.60	13551.62
0050	433-1000		SY	REINF CONC APPROACH SLAB	300.000	126.06	37818.45
0054	436-1000		LF	ASPH CONC CURB - 122017	1000.000	9.28	9282.03
0055	441-4030		SY	CONC VALLEY GUTTER, 8 IN	25.000	80.88	2022.14
0059	446-1100		LF	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	2300.000	4.60	10587.52
0060	456-2012		GLM	INTENT. RUMB. STRIPS - GRND-IN-PL (CONT)	3.000	955.41	2866.25
0064	456-2025		GLM	INDNT, CNTR LN RUM STRP - GND-IN-PL(CON)	2.000	721.88	1443.76
0065	500-3101		CY	CLASS A CONCRETE	35.000	755.60	26446.22
0070	522-1000		LS	SHORING	1.000	150000.00	150000.00
0075	620-0100		LF	TEMP BARRIER, METHOD NO. 1	4250.000	31.81	135194.07
0079	632-0003		EA	CHANGEABLE MESS SIGN,PORT,TP 3	4.000	6071.85	24287.42
0080	634-1200		EA	RIGHT OF WAY MARKERS	40.000	113.59	4543.65
0085	641-1100		LF	GUARDRAIL, TP T	100.000	58.01	5801.19
0090	641-1200		LF	GUARDRAIL, TP W	1600.000	17.19	27504.00
0095	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	2.000	822.30	1644.60
0100	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	2.000	2009.18	4018.37
0105	999-3155		LF	DRY SWALE EDGE DRAIN	900.000	45.44	40896.00
0110	643-8200		LF	BARRIER FENCE (ORANGE), 4 FT	1600.000	1.08	1728.61
0115	441-3999		LF	CONCRETE V GUTTER	850.000	17.17	14597.66
0120	550-1180		LF	STM DR PIPE 18",H 1-10	3100.000	37.36	115826.94
0125	550-1240		LF	STM DR PIPE 24",H 1-10	60.000	55.81	3348.86
0130	550-1360		LF	STM DR PIPE 36",H 1-10	10.000	126.95	1269.56
0135	550-4218		EA	FLARED END SECT 18 IN, ST DR	13.000	483.71	6288.29
0140	550-4224		EA	FLARED END SECT 24 IN, ST DR	2.000	632.72	1265.45
0145	600-0001		CY	FLOWABLE FILL	50.000	215.61	10780.84
0150	603-2024		SY	STN DUMPED RIP RAP, TP 1, 24"	1000.000	43.73	43738.22
0155	603-2180		SY	STN DUMPED RIP RAP, TP 3, 12"	250.000	22.62	5656.49
0160	603-7000		SY	PLASTIC FILTER FABRIC	1250.000	3.00	3750.15
0164	615-1000		LF	JACK OR BORE PIPE - 18" & 24" PIPES	190.000	330.73	62839.69
0165	668-1100		EA	CATCH BASIN, GP 1	2.000	2176.99	4353.98

0170	668-2100	EA	DROP INLET, GP 1	33.000	1713.31	56539.51
0175	668-4300	EA	STORM SEW MANHOLE, TP 1	2.000	1849.02	3698.04
0180	163-0232	AC	TEMPORARY GRASSING	6.000	452.30	2713.85
0185	163-0240	TN	MULCH	170.000	184.19	31312.87
0190	163-0300	EA	CONSTRUCTION EXIT	4.000	1299.76	5199.05
0195	163-0520	LF	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	700.000	12.57	8803.87
0200	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	120.000	236.25	28351.03
0205	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	20.000	528.31	10566.33
0210	163-0542	EA	CONSTR & REM STONE FILTER RING	10.000	645.53	6455.40
0215	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	30.000	125.10	3753.26
0220	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	15000.000	0.50	7590.00
0225	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	1200.000	1.02	1235.27
0230	165-0050	LF	MAINT OF SILT RETENTION BARRIER	1600.000	2.40	3854.82
0235	165-0101	EA	MAINT OF CONST EXIT	4.000	550.13	2200.55
0240	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	30.000	31.19	935.87
0245	165-0110	EA	MAINT OF ROCK FILTER DAM	20.000	55.98	1119.72
0250	165-0111	EA	MAINT OF STONE FILTER RING	10.000	134.94	1349.43
0255	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	207.26	414.54
0260	167-1500	MO	WATER QUALITY INSPECTIONS	24.000	490.49	11771.77
0265	170-1000	LF	FLOAT SILT RETENTION BARRIER	1600.000	12.54	20070.83
0270	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	15000.000	2.23	33471.90
0275	700-6910	AC	PERMANENT GRASSING	11.000	1215.44	13369.84
0280	700-7000	TN	AGRICULTURAL LIME	32.000	62.73	2007.48
0285	700-8000	TN	FERTILIZER MIXED GRADE	8.000	567.56	4540.50
0290	700-8100	LB	FERTILIZER NITROGEN CONTENT	600.000	2.21	1331.34
0295	700-9300	SY	SOD	2100.000	4.23	8883.04
0300	716-2000	SY	EROSION CONTROL MATS, SLOPES	10000.000	0.90	9013.90
0305	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	100.000	16.19	1619.33
0310	636-1033	SF	HWY SIGNS, TP1MAT,REFL SH TP 9	100.000	19.57	1957.52
0315	636-2070	LF	GALV STEEL POSTS, TP 7	300.000	6.42	1926.93
0320	636-2090	LF	GALV STEEL POSTS, TP 9	100.000	7.81	781.24
0325	653-0120	EA	THERM PVMT MARK, ARROW, TP 2	20.000	79.20	1584.00
0330	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	7000.000	0.56	3963.19
0335	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	4000.000	0.62	2498.12
0340	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	100.000	5.16	516.87
0345	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	400.000	0.86	344.24
0350	653-3502	GLF	THERMO SKIP TRAF ST, 5 IN, YEL	900.000	0.29	262.40
0355	653-6006	SY	THERM TRAF STRIPING, YELLOW	800.000	4.31	3450.34
0360	654-1001	EA	RAISED PVMT MARKERS TP 1	120.000	4.07	489.12
0365	654-1003	EA	RAISED PVMT MARKERS TP 3	50.000	4.93	246.99
0370	657-1085	LF	PRF PL SD PVT MKG,8",B/W,TP PB	1200.000	6.47	7769.96
0375	657-6085	LF	PRF PL SD PVMT MKG,8",B/Y,TPPB	1200.000	5.96	7163.09
0380	540-1101	LS	REM OF EX BR, STA NO - 122017	1.000	200000.00	200000.00
0385	543-9000	LS	CONSTR OF BRIDGE COMPLETE - 122017	1.000	2300900.00	2300900.00
0389	621-6013	LF	CONC SIDE BARRIER, TP 7-TS	22.000	57.41	1263.02
0395	627-1000	SF	MSE WALL FACE, 0 - 10 FT HT, WALL NO - WALLS NO. 1 & 2	200.000	44.80	8961.88
0400	627-1010	SF	MSE WALL FACE, 10 - 20 FT HT, WALL NO - WALLS NO. 1 & 2	6410.000	48.53	311117.81
0405	627-1020	SF	MSE WALL FACE, 20 - 30 FT HT, WALL NO - WALLS NO. 1 & 2	5810.000	45.82	266249.87
0410	627-1100	LF	COPING A, WALL NO - WALLS NO. 1 & 2	59.000	104.55	6168.79
0415	627-1160	LF	TRAFFIC BARRIER H, WALL NO - WALLS NO. 1 & 2	654.000	211.04	138020.16

ITEM TOTAL 6263504.10

INFLATED ITEM TOTAL	6263504.10

TOTALS FOR JOB 122017

ESTIMATED COST:	6263504.13
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	6263504.13

PROJ. NO.	BHF00-0012-01(082)	CALL NO.
P.I. NO.	122017	
DATE	2/27/2015	

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Feb-15	$ 1.998
DIESEL		$ 2.777
LIQUID AC		$ 534.00

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)				**145782**	**$ 145,782.00**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	854.40	
Monthly Asphalt Cement Price month project let (APL)			$	534.00	
Total Monthly Tonnage of asphalt cement (TMT)				455	

ASPHALT	Tons	%AC	AC ton
Leveling	1200	5.0%	60
12.5 OGFC		5.0%	0
12.5 mm	1650	5.0%	82.5
9.5 mm SP		5.0%	0
25 mm SP	4650	5.0%	232.5
19 mm SP	1600	5.0%	80
	9100		**455**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$**	**2,477.07**	**$ 2,477.07**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	854.40	
Monthly Asphalt Cement Price month project let (APL)			$	534.00	
Total Monthly Tonnage of asphalt cement (TMT)				7.73118166	

Bitum Tack Gals	gals/ton	tons
1800	232.8234	7.73118166

PROJ. NO.	BHF00-0012-01(082)		CALL NO.
P.I. NO.	122017		
DATE	2/27/2015		

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	854.40	
Monthly Asphalt Cement Price month project let (APL)			$	534.00	
Total Monthly Tonnage of asphalt cement (TMT)				0	

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

TOTAL LIQUID AC ADJUSTMENT	**$**	**148,259.07**

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE BHF00-0012-01(082) Forsyth Co.
P.I. No. 122017
SR 369 @ Two Mile Creek

OFFICE Gainesville

DATE June 20, 2012

FROM Allen Ferguson
District Utilities Engineer

TO Steve Adewale, Project Manager

SUBJECT PRELIMINARY UTILITY COST (ESTIMATE)

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

FACILITY OWNER	NON-REIMBURSABLE	REIMBURSABLE
AT&T	$ 93,000.00	$0.00
Comcast CATV	$ 62,000.00	$0.00
Forsyth County Water/Sewer	$303,500.00	$0.00
Sawnee EMC	$298,000.00	$0.00
TOTAL	**$756,500.00**	**$0.00**

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

RAF

C: Jeff Baker, P.E., State Utilities Engineer (email only)
Angie Robinson, Office of Financial Management (email only)
Matt Needham, Area Engineer (email only)
File

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 7/15/2014 Project: BHF00-0012-01(082)
Revised: County: Forsyth
PI: 122017
Description: SR 369 Over Two Mile Creek
Project Termini: SR 369 Over Two Mile Creek
Existing ROW: Varies
Parcels: 7 Required ROW: Varies

Land and Improvements		$402,000.00
Proximity Damage	*$0.00*	
Consequential Damage	*$0.00*	
Cost to Cures	*$0.00*	
Trade Fixtures	*$0.00*	
Improvements	*$45,000.00*	
Valuation Services		$26,250.00
Legal Services		$79,725.00
Relocation		$14,000.00
Demolition		$0.00
Administrative		$71,500.00
TOTAL ESTIMATED COSTS		$593,475.00
TOTAL ESTIMATED COSTS (ROUNDED)		***$594,000.00***

Preparation Credits	Hours	Signature

Prepared By: [signature] CG#: 286999 07/15/2014
Approved By: [signature] CG#: 286999 07/15/2014

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

P.I. No. 122017
Request for Location & Design Approval

NOTICE OF LOCATION AND DESIGN APPROVAL

BHF00-0012-01(082), FORSYTH COUNTY
P. I. NO. 122017

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location and design approval is: May 29, 2015

The project is located in Forsyth County west of the city of Gainesville. The project is located 100% within Forsyth County and G.M.D. 1599 and 100% within Congressional District 9.

Project with P.I. No. 122017 in Forsyth County represents the construction of a new two lane bridge over Two Mile Creek (Lake Lanier) approximately 9.1 miles northeast of the City of Cumming. The project will replace the existing bridge that currently exists at this location, which has a sufficiency rating of 33.53. The project will begin at a point approximately 0.34 miles west of Two Mile Creek and extend to a point approximately 0.39 miles east of Two Mile Creek. The project length is approximately 0.73 miles. The proposed bridge will consist of two 12-foot lanes with 8-foot shoulders. The roadway approaches will be reconstructed to provide two 12-foot lanes and 10-foot shoulders. The shoulder will include a 4-foot paved shoulder.

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

Matthew Needham, Area Engineer
mneedham@dot.ga.gov
Georgia Department of Transportation
2505 Athens Highway SE
Gainesville, GA 30507
Telephone (770) 535-5759

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

Albert V. Shelby III
Office of Program Delivery
Attn: Steven Heng
Georgia Department of Transportation
600 West Peachtree St, 25th Floor
Atlanta, Georgia 30308
Telephone (404) 631-1758

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