ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #122012-
BRF00-0012-01(080)
Forsyth & Hall Counties
GDOT District 1 - Gainesville
Bridge Replacement - SR369 @ Chattahoochee River/Lake Lanier

OFFICE Design Policy & Support

DATE 5/18/2015

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
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
Kim Coley, District Planning & Programming Engineer
Matthew Needham, Area Engineer - D1, A1
Steven Heng, Project Manager
BOARD MEMBER - 9th Congressional District

P.I. No. 122012
Request for Location & Design Approval

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTEROFFICE CORRESPONDENCE
LOCATION AND DESIGN REPORT

FILE: P.I. No. 122012 **OFFICE:** Program Delivery
BRF00-0012-01(080), Forsyth/Hall Counties
S.R. 369 over Chattahoochee River (Lake Lanier) Bridge Replacement
DATE: May 11, 2015

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

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. 122012 at the Forsyth and Hall County border represents the construction of a new two lane bridge over the Chattahoochee River (Lake Lanier) approximately 11.5 miles northeast of the City of Cumming. The project will replace the existing steel truss bridge that currently exists at this location, which has a sufficiency rating of 39.45. The project will begin at a point approximately 0.38 miles west of the Chattahoochee River and extend to a point approximately 0.43 miles east of the Chattahoochee River. The project length is approximately 0.81 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 8-foot shoulders. The shoulder will include a 6.5-foot paved shoulder.

Concept Approval Date: June 12, 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 14 people commented with 4 in support, 0 opposed, 10 uncommitted, and 4 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 new bridge should have at least 40-foot full pool clearance to accommodate sailboats; a suspension bridge was suggested as a solution
    4. The replacement bridge should be attractive instead of plain concrete bridge
    5. The project did not start soon enough
    6. The bridge and roadway should be four lanes from Gainesville to Cartersville
    7. Traffic disruptions during the construction of the project
    8. An increase in noise levels as a result of the project
    9. The new bridge will require more piers than existing bridge which may cause hazardous conditions and traffic delays for boaters
    10. The existing osprey nest on the existing bridge will need to be relocated as a result of the project
    11. Tractor trailer traffic should be banned on SR 369 between SR 400 and McEver Road
- 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: Glen Bowman
GDOT Director of Engineering

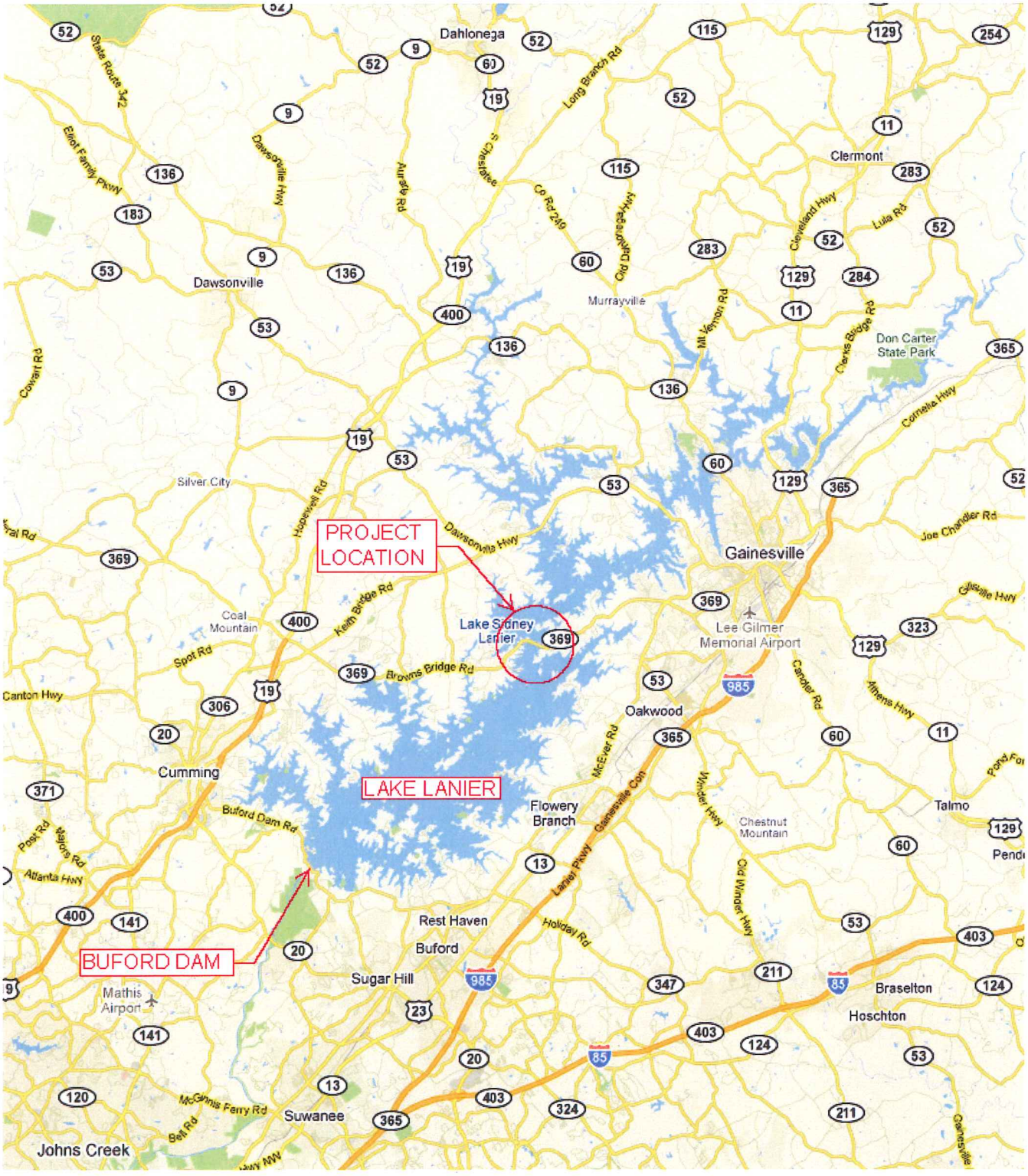
APPROVE: Mary B. Pinkle by RO — 05/15/2015
GDOT Chief Engineer — Date

DATE OF LOCATION AND DESIGN APPROVAL: May 18, 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. 122012
Request for Location & Design Approval

Project Location Map
Project No. BRF00-0012-01(080)



DATE : 02/23/2015
PAGE : 1

JOB DETAIL ESTIMATE

JOB NUMBER : 122012 SPEC YEAR: 01
DESCRIPTION: BRIDGE REPLACEMENT ON SR 369 @ CHATTAHOOCHEE RIVER

ITEMS FOR JOB 122012

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 122012	1.000	150000.00	150000.00
0009	150-5010		EA	TRAF CTRL,PORTABLE IMPACT ATTN	5.000	6292.91	31464.59
0010	153-1100		EA	FIELD ENGINEERS OFFICE TP 1	1.000	56882.21	56882.21
0015	208-0200		CY	ROCK EMBANKMENT	800.000	40.99	32798.98
0020	210-0100		LS	GRADING COMPLETE - 122012	1.000	700000.00	700000.00
0025	310-1101		TN	GR AGGR BASE CRS, INCL MATL	5800.000	20.46	118682.15
0030	402-1812		TN	RECYL AC LEVELING,INC BM&HL	200.000	95.47	19094.22
0035	402-3113		TN	RECYL AC 12.5MM SP,GP1/2,BM&HL	1100.000	65.98	72578.00
0040	402-3121		TN	RECYL AC 25MM SP,GP1/2,BM&HL	3200.000	70.82	226645.76
0045	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	1200.000	82.52	99029.16
0050	413-1000		GL	BITUM TACK COAT	1200.000	2.73	3276.52
0054	432-0206		SY	MILL ASPH CONC PVMT/ 1.50" DEP	2350.000	3.31	7778.55
0055	433-1000		SY	REINF CONC APPROACH SLAB	140.000	135.53	18975.57
0058	433-1300		SY	REF CONC APPR SL/INCL BARRIER	140.000	137.59	19262.60
0059	436-1000		LF	ASPH CONC CURB - 122012	150.000	12.77	1916.06
0060	446-1100		LF	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	1850.000	4.81	8911.34
0065	456-2012		GLM	INTENT. RUMB. STRIPS - GRND-IN-PL (CONT)	4.000	1202.08	4808.34
0069	456-2025		GLM	INDNT, CNTR LN RUM STRP - GND-IN-PL(CON)	2.000	721.88	1443.76
0070	500-3101		CY	CLASS A CONCRETE	32.000	759.60	24307.29
0075	522-1000		LS	SHORING	1.000	195000.00	195000.00
0080	620-0100		LF	TEMP BARRIER, METHOD NO. 1	4000.000	31.98	127955.08
0084	632-0003		EA	CHANGEABLE MESS SIGN,PORT,TP 3	4.000	6071.85	24287.42
0085	634-1200		EA	RIGHT OF WAY MARKERS	27.000	116.22	3138.07
0090	641-1100		LF	GUARDRAIL, TP T	220.000	49.13	10810.26
0095	641-1200		LF	GUARDRAIL, TP W	1600.000	17.19	27504.00
0100	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	4.000	810.39	3241.59
0105	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	4.000	1981.60	7926.42
0110	643-8200		LF	BARRIER FENCE (ORANGE), 4 FT	500.000	1.19	597.90
0115	441-0301		EA	CONC SPILLWAY, TP 1	3.000	1655.69	4967.09
0120	441-3999		LF	CONCRETE V GUTTER	130.000	22.79	2962.79
0125	500-3101		CY	CLASS A CONCRETE	3.000	689.73	2069.19
0130	550-1180		LF	STM DR PIPE 18",H 1-10	2000.000	38.91	77828.52
0135	550-1247		LF	STM DR PIPE 24",H 40-50	200.000	36.73	7346.00
0140	550-4218		EA	FLARED END SECT 18 IN, ST DR	12.000	484.98	5819.84
0145	550-4224		EA	FLARED END SECT 24 IN, ST DR	2.000	632.72	1265.45
0150	576-1010		LF	SLOPE DRAIN PIPE, 10 IN	100.000	50.96	5096.84
0154	600-0001		CY	FLOWABLE FILL	100.000	197.10	19710.64
0155	603-2024		SY	STN DUMPED RIP RAP, TP 1, 24"	1250.000	42.90	53630.01
0160	603-2180		SY	STN DUMPED RIP RAP, TP 3, 12"	350.000	21.84	7645.63
0165	603-7000		SY	PLASTIC FILTER FABRIC	1600.000	2.97	4752.75
0169	615-1000		LF	JACK OR BORE PIPE - 24"	200.000	330.41	66083.00
0170	668-1100		EA	CATCH BASIN, GP 1	1.000	2176.99	2176.99
0175	668-2100		EA	DROP INLET, GP 1	16.000	1916.72	30667.67
0180	668-4300		EA	STORM SEW MANHOLE, TP 1	8.000	1840.35	14722.87
0185	999-3155		LF	DRY SWALE EDGE DRAIN	1400.000	42.36	59309.12
0190	163-0232		AC	TEMPORARY GRASSING	3.000	534.39	1603.19

0195	163-0240	TN	MULCH	150.000	187.96	28194.16
0200	163-0300	EA	CONSTRUCTION EXIT	4.000	1299.76	5199.05
0205	163-0520	LF	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	600.000	12.68	7609.18
0210	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	150.000	232.81	34922.52
0220	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	8.000	528.31	4226.53
0225	163-0542	EA	CONSTR & REM STONE FILTER RING	8.000	649.34	5194.72
0230	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	21.000	127.34	2674.34
0235	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	12400.000	0.51	6425.43
0240	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	1500.000	0.98	1474.85
0245	165-0050	LF	MAINT OF SILT RETENTION BARRIER	550.000	2.40	1325.09
0250	165-0101	EA	MAINT OF CONST EXIT	4.000	550.13	2200.55
0255	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	21.000	32.28	677.96
0260	165-0110	EA	MAINT OF ROCK FILTER DAM	8.000	64.73	517.85
0265	165-0111	EA	MAINT OF STONE FILTER RING	8.000	134.94	1079.54
0270	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	207.26	414.54
0275	167-1500	MO	WATER QUALITY INSPECTIONS	24.000	490.49	11771.77
0280	170-1000	LF	FLOAT SILT RETENTION BARRIER	550.000	12.54	6899.35
0285	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	12400.000	2.25	28011.97
0290	700-6910	AC	PERMANENT GRASSING	7.000	1215.44	8508.08
0295	700-7000	TN	AGRICULTURAL LIME	30.000	63.24	1897.27
0300	700-8000	TN	FERTILIZER MIXED GRADE	10.000	592.76	5927.68
0305	700-8100	LB	FERTILIZER NITROGEN CONTENT	400.000	2.38	952.42
0310	700-9300	SY	SOD	3200.000	4.05	12968.58
0315	716-2000	SY	EROSION CONTROL MATS, SLOPES	14000.000	0.88	12376.14
0320	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	100.000	16.19	1619.33
0325	636-1029	SF	HWY SGN,TP2 MATL,REFL SH TP 3	20.000	13.83	276.79
0330	636-1033	SF	HWY SIGNS, TP1MAT,REFL SH TP 9	100.000	19.57	1957.52
0335	636-2070	LF	GALV STEEL POSTS, TP 7	200.000	6.68	1337.63
0340	636-2090	LF	GALV STEEL POSTS, TP 9	200.000	7.66	1532.50
0345	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	6000.000	0.58	3506.70
0350	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	6000.000	0.58	3483.30
0355	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	50.000	5.32	266.00
0360	654-1001	EA	RAISED PVMT MARKERS TP 1	100.000	4.16	416.44
0365	657-1085	LF	PRF PL SD PVT MKG,8",B/W,TP PB	2900.000	6.11	17721.52
0370	657-6085	LF	PRF PL SD PVMT MKG,8",B/Y,TPPB	2900.000	5.64	16382.62
0375	543-9000	LS	CONSTR OF BRIDGE COMPLETE - 122012	1.000	7964560.00	7964560.00
0380	540-1101	LS	REM OF EX BR, STA NO - 122012	1.000	1000000.00	1000000.00
0385	617-0510	LS	PERMANENTLY ANCHORED WALL NO - WALL NO. 1	1.000	2024100.00	2024100.00
0390	621-4086	LF	CONCRETE SIDE BARRIER, TP 7WS	535.000	57.41	30714.35
0395	621-6012	LF	CONC SIDE BARRIER, TP 7-RS	100.000	188.50	18850.00
0400	621-6013	LF	CONC SIDE BARRIER, TP 7-TS	33.000	280.93	9270.69
0405	621-6200	LF	CONC SIDE BARRIER, TP 2-S WALL NO. 2	290.000	190.00	55100.00

ITEM TOTAL	13708518.41
INFLATED ITEM TOTAL	13708518.41

TOTALS FOR JOB 122012

ESTIMATED COST:	13708518.39
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	13708518.39

PROJ. NO.	BRF00-0012-01(080)	CALL NO.
P.I. NO.	122012	
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)				**91314**	**$**	**91,314.00**
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)				285		

ASPHALT	**Tons**	**%AC**	**AC ton**
Leveling	200	5.0%	10
12.5 OGFC		5.0%	0
12.5 mm	1100	5.0%	55
9.5 mm SP		5.0%	0
25 mm SP	3200	5.0%	160
19 mm SP	1200	5.0%	60
	5700		**285**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$**	**1,651.38**	**$**	**1,651.38**
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)				5.154121106		

Bitum Tack Gals	gals/ton	tons
1200	232.8234	5.15412111

PROJ. NO.	BRF00-0012-01(080)	CALL NO.	
P.I. NO.	122012		
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	**$**	**92,965.38**

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **BHF00-0012-01(080) Forsyth/Hall Co.**
P.I. No. 122012
SR 369 Over Chattahoochee River

OFFICE **Gainesville**

DATE **June 20, 2012**

AF

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	$27,000.00	$0.00
Forsyth County Water/Sewer	$64,500.00	$0.00
Sawnee EMC	$54,000.00	$0.00
TOTAL	**$145,500.00**	**$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: BRF00-0012-01(080)
Revised: County: Forsyth/Hall
PI: 122012
Description: SR 369 Over The Chattahoochee River
Project Termini: SR 369 Over The Chattahoochee River
Existing ROW: Varies
Parcels: 3 Required ROW: Varies

Land and Improvements		$256,500.00
Proximity Damage	*$0.00*	
Consequential Damage	*$0.00*	
Cost to Cures	*$0.00*	
Trade Fixtures	*$0.00*	
Improvements	*$25,000.00*	
Valuation Services		$9,000.00
Legal Services		$39,525.00
Relocation		$6,000.00
Demolition		$0.00
Administrative		$36,000.00
TOTAL ESTIMATED COSTS		$347,025.00
TOTAL ESTIMATED COSTS (ROUNDED)		***$348,000.00***

Preparation Credits	Hours	Signature

Prepared By: CG#: 286999 07/15/2014
Approved By: CG#: 286999 07/15/2014

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

NOTICE OF LOCATION AND DESIGN APPROVAL

BRF00-0012-01(080), FORSYTH/HALL COUNTIES
P. I. NO. 122012

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 18, 2015

The project is located in Forsyth/Hall Counties west of the city of Gainesville. Forty- nine percent of the property is located within Forsyth County and G.M.D. 1599; the remaining fifty-one percent is within Hall County and G.M.D. 565. The project is wholly within Congressional District 9.

Project with P.I. No. 122012 at the Forsyth and Hall County border represents the construction of a new two lane bridge over the Chattahoochee River (Lake Lanier) approximately 11.5 miles northeast of the City of Cumming. The project will replace the existing steel truss bridge that currently exists at this location, which has a sufficiency rating of 39.45. The project will begin at a point approximately 0.38 miles west of the Chattahoochee River and extend to a point approximately 0.43 miles east of the Chattahoochee River. The project length is approximately 0.81 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 8-foot shoulders. The shoulder will include a 6.5-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
ashelby@dot.ga.gov
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.