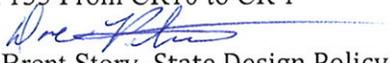


**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0000544 **OFFICE** Design Policy & Support
STP00-0000-00(544)
Brooks County **DATE** 8/9/2010
SR 133 From CR10 to CR 1

FROM  for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED REVISED CONCEPT REPORT**

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

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator
Ron Wishon, State Project Review Engineer
Glenn Bowman, State Environmental Administrator
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
Kathy Zahul, State Traffic Engineer
Angela Alexander, State Transportation Planning Administrator
Paul Liles, State Bridge Engineer
Bobby Hilliard, State Program Delivery Engineer
Angela Robinson, Financial Management Administrator
Jeff Baker, State Utilities Engineer
Tim Warren, District Utilities Engineer
Brent Thomas, District Preconstruction Engineer
Joe Sheffield, District Engineer
Douglas Fadool, Project Manager
BOARD MEMBER - 2nd Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
REVISED PROJECT CONCEPT REPORT

Project Number: STP00-0000-00(544)

County: Brooks

P. I. Number: 0000544

Federal Route Number: N/A

State Route Number: SR 133

The feature from the approved concept report being revised is the median type of the typical section.

Submitted for approval:

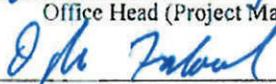
DATE 4/13/10


Wolverton & Associates, Inc.

DATE 4/14/10

Office Head (Project Manager's Office)

DATE 4-14-10


Project Manager

Recommendation for approval:

DATE 4-19-10

Recommendation on file (MJD)
State Environmental Administrator

DATE _____

State Bridge Design Engineer (if applicable)

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 4/20/10


State Transportation Planning Administrator

REVISED PROJECT CONCEPT REPORT

Project Number: STP00-0000-00(544)

Page 2

Need and Purpose:

State Route 133 is a major north-south corridor in South Georgia and provides a vital connection between Valdosta on the south with Albany to the north. For its entire length between Valdosta and Albany, S.R. 133 is identified for eventual widening due to its inclusion on the Governor's Road Improvement Program (GRIP). The GRIP was initiated in the 1980's to address the importance of stimulating economic growth via an improved transportation network. S.R. 133 was recently added to the GRIP by the State Legislature and approved by the Governor.

Project P.I. 0000544 is not on a route designated in the GDOT Statewide Bicycle & Pedestrian Plan or a local bike plan. This project is one of 9 projects that will widen S.R. 133 between Albany and Valdosta. More specifically, there are 5 projects to widen S.R.133 between Valdosta and Moultrie and 4 projects between Moultrie and Albany. The proposed limits of the 5 projects (PI # 0000543, 0000544, 0000545, 0000546 and 431780) between Valdosta and Moultrie have logical termini; the southern terminus of these projects will tie into the existing four lane section of S.R. 133 near C.R. 276/Troupeville Road in Brooks County and the northern terminus of these projects will tie into the existing four lane section at the SR 35/East Moultrie Bypass in Colquitt County.

Project Location: STP00-0000-00(544) in Brooks County is proposed to improve 5.43 miles of S.R. 133 from C.R. 10/Pauline Church Road (Brooks County Mile Post 7.29), where it ties to Project STP00-0000-00(543), to Old Quitman Adel Road/ C.R. 1 (Brooks County Mile Post 12.72) where it ties to Project STP00-0000-00(545). Improvements consist of widening the existing two-lane S.R. 133 to a four-lane roadway with turn lanes as needed.

Description of the approved concept: Project P.I. 0000544 proposes a 4-lane section with a 44' depressed median from C.R. 10/Pauline Church Road to Lawson Pond Road and a 20' raised concrete median with 16' outside urban shoulders from Lawson Pond Road to Old Quitman Adel Road/ C.R. 1. Improving S.R. 133 to a multi-lane facility with separate turning lanes will reduce turning conflicts from the through traffic and improve operations.

PDP Classification: Major X Minor

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

Functional Classification: Rural Minor Arterial

U.S. Route Number(s): N/A **State Route Number(s):** SR 133

Traffic (AADT) as shown in the approved concept:

Base Year: (2010) 5,425 Design Year: (2030) 8,075

Updated traffic data (AADT):

Base Year: (2016) 6,350 Design Year: (2036) 9,450

Approved Programmed/Schedule:

P.E: 2003 R/W: LR Construction: LR

VE Study Required: Yes (X) No ()

Note: A VE study was held in September 2006 and implemented in December 2006.

Benefit/Cost Ratio: N/A

Is the project located in an Ozone Non-attainment area? Yes () No (**X**)

Is the project in a PM2.5 Non-Attainment area? Yes () No (X)

Approved features to be revised: A Value Engineering Study held in September 2006 and implemented in December 2006 recommended that the 20' raised concrete median section be revised to a five lane flush median section from Lawson Pond Road to Old Quitman Adel Road/ C.R. 1.

The outside urban shoulder width from Lawson Pond Road to Old Quitman Adel Road/ C.R. 1 was reduced from 16' to 12' to minimize right-of-way and environmental impacts and reduce construction and right-of-way acquisition costs.

The 44' grassed median width from C.R. 10 /Pauline Church Road to Lawson Pond Road was reduced to 32' to minimize right-of-way and environmental impacts and reduce construction and right-of-way acquisition costs.

Proposed features: The 20' raised concrete median with 16' outside urban shoulders was revised to a 14' flush two-way center turn lane with an outside urban shoulder width of 12', and the 44' depressed median was revised to a 32' depressed median.

Reason for Change: The median type of the typical section was revised from a 20' raised concrete median section to a five lane flush median section due to the implementation of a VE recommendation.

Due to the more urbanized areas, the outside urban shoulder width was reduced to 12' to minimize right-of-way and environmental impacts and reduce construction and right-of-way acquisition costs.

The 44' depressed median was revised to a 32' depressed median to minimize right-of-way and environmental impacts and reduce construction and right-of-way acquisition costs.

Potential Environmental Impacts of Proposed Revision: Environmental impacts were minimized by reducing the typical section footprint. The roadway median type of the typical section was revised from a 20' raised concrete median to a 14' flush two-way center turn lane with 12' outside urban shoulders, and the 44' depressed median was reduced to a 32' depressed median.

Have Proposed Revisions Been Reviewed by Environmental Staff? (X) Yes () No

Environmental Responsibilities: Consultant, GDOT

Updated cost estimates:

1. Construction including Contingencies, Engineering and Inspection,
2. Right-of-Way
3. Utilities (reimbursable) and Utility Contingencies
4. Fuel Adjustment – see attachment
5. Environmental Mitigation – see attachment

Recommendation: It is recommended that the proposed revision to the concept report be approved for implementation.

REVISED PROJECT CONCEPT REPORT

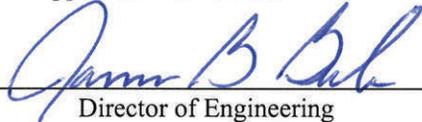
Project Number: STP00-0000-00(544)

Page 4

Attachments:

1. Location Map
2. Cost Estimate
3. Utility Cost Estimate
4. Preliminary Right of Way Cost Estimate
5. Fuel Adjustment
6. Environmental Mitigation Cost Estimate
7. Typical sections
8. VE Implementation Letter
9. Approved Traffic Data

Concur:



Director of Engineering

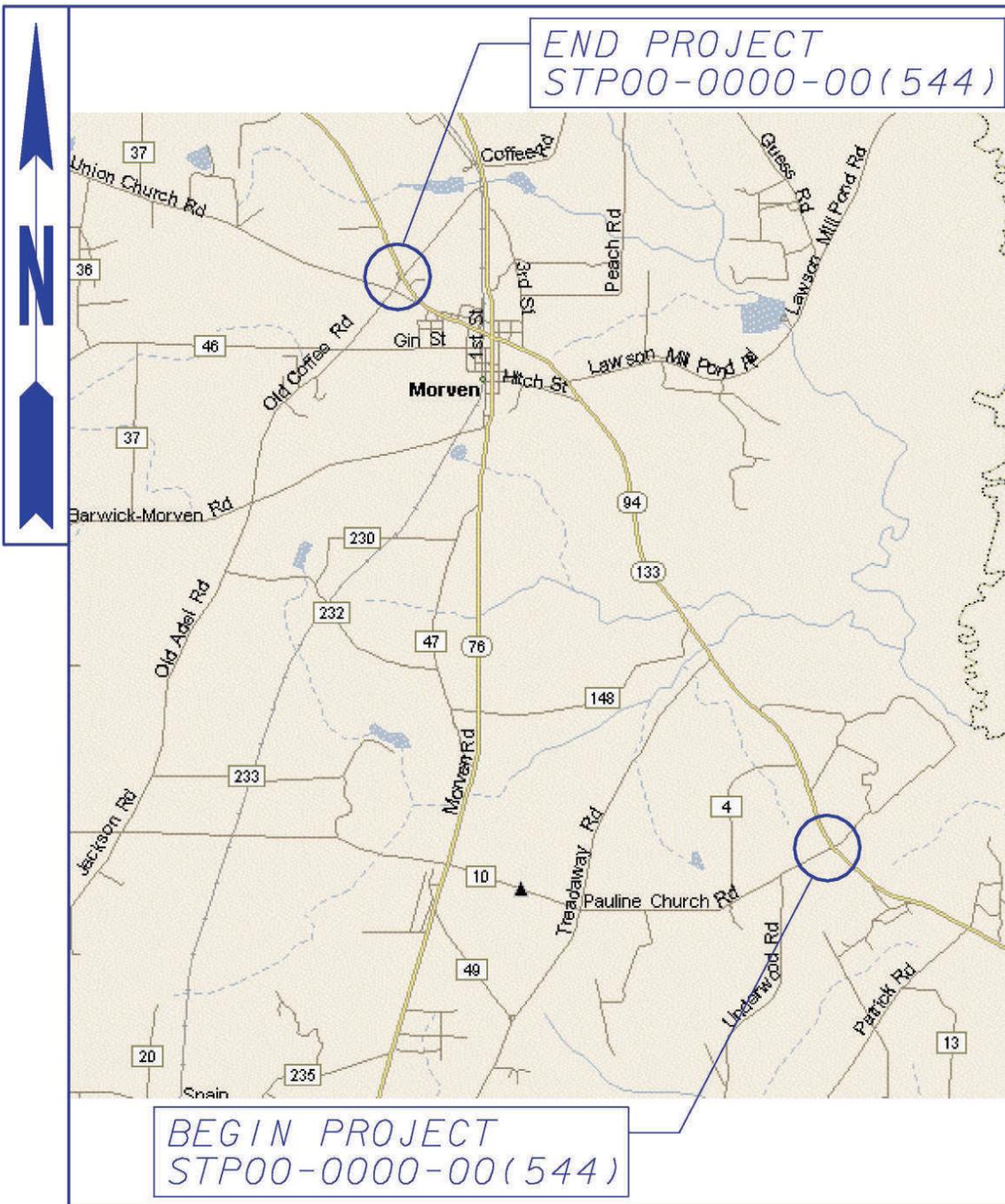
Approve:



Chief Engineer



Date



LOCATION MAP

Project: STP00-0000-00(544) PI No.: 0000544
Description: Widening of SR 133 from Pauline Church Road (CR10)
to Old Quitman Adel Road (CR 1)

ATTACHMENT 2

COST ESTIMATE

COST ESTIMATE SUMMARY

STP00-0000-00(544)	
Base Construction Cost:	\$21,576,810
Engineering and Inspection @ 5%:	\$1,078,841
Construction Contingency @ 4%:	\$863,072
Fuel Adjustment:	\$2,776,076
Liquid AC Adjustment	\$4,879,636
Total Construction Cost:	\$31,174,435
Right of Way:	\$1,145,190
Reimbursable Utilities:	\$1,494,188
Mitigation Costs	\$264,719
Grand Total Project Cost:	\$34,078,532

Estimate Report for file "STP00-0000-00(544) PI # 0000544"

Section EARTHWORK					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
205-0001	110000	CY	4.57	UNCLASS EXCAV	502700.00
206-0002	295000	CY	6.2	BORROW EXCAV, INCL MATL	1829000.0
Section Sub Total:					\$2,331,700.00

Section DRAINAGE					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
441-0303	11	EA	2243.97	CONC SPILLWAY, TP 3	24683.67
441-6222	14000	LF	11.87	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	166180.0
500-3101	1090	CY	448.66	CLASS A CONCRETE	489039.4
511-1000	125540	LB	0.92	BAR REINF STEEL	115496.8
550-1180	7400	LF	45.35	STORM DRAIN PIPE, 18 IN, H 1-10	335590.0
550-1240	2500	LF	50.46	STORM DRAIN PIPE, 24 IN, H 1-10	126150.0
550-1300	600	LF	68.25	STORM DRAIN PIPE, 30 IN, H 1-10	40950.0
550-1360	500	LF	85.24	STORM DRAIN PIPE, 36 IN, H 1-10	42620.0
550-1480	130	LF	127.17	STORM DRAIN PIPE, 48 IN, H 1-10	16532.1
550-2180	1030	LF	28.99	SIDE DRAIN PIPE, 18 IN, H 1-10	29859.69
550-2240	200	LF	34.66	SIDE DRAIN PIPE, 24 IN, H 1-10	6931.99
550-3318	1	EA	595.4	SAFETY END SECTION 18 IN, STORM DRAIN, 4:1 SLOPE	595.4
550-3330	10	EA	1706.07	SAFETY END SECTION 30 IN, STORM DRAIN, 4:1 SLOPE	17060.7
550-3336	4	EA	1993.33	SAFETY END SECTION 36 IN, STORM DRAIN, 4:1 SLOPE	7973.32
550-3418	38	EA	642.67	SAFETY END SECTION 18 IN, SIDE DRAIN, 4:1 SLOPE	24421.46
550-3618	38	EA	636.77	SAFETY END SECTION 18 IN, SIDE DRAIN, 6:1 SLOPE	24197.26
550-4218	80	EA	656.46	FLARED END SECTION 18 IN, STORM DRAIN	52516.8
550-4224	5	EA	772.69	FLARED END SECTION 24 IN, STORM DRAIN	3863.45
550-4230	3	EA	945.17	FLARED END SECTION 30 IN, STORM DRAIN	2835.50
550-4236	6	EA	1227.31	FLARED END SECTION 36 IN, STORM DRAIN	7363.86
610-9008	2	LS	3400.0	REM PORTIONS OF EXISTING CLVT, INCL WINGWALLS & PARAPETS, STA -	6800.0
668-1100	58	EA	2277.92	CATCH BASIN, GP 1	132119.36
668-2100	62	EA	4470.97	DROP INLET, GP 1	277200.14
668-4300	7	EA	2562.98	STORM SEWER MANHOLE, TP 1	17940.86
Section Sub Total:					\$1,968,921.79

Section TEMPORARY EROSION CONTROL					
Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	24	AC	571.97	TEMPORARY GRASSING	13727.28
163-0240	1400	TN	183.84	MULCH	257376.0
163-0300	6	EA	2872.37	CONSTRUCTION EXIT	17234.22
163-0501	3	EA	839.38	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 1	2518.14
163-0502	2	EA	760.71	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 2	1521.42
163-0503	9	EA	535.17	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	4816.53
163-0531	7	EA	8070.58	CONSTRUCT AND REMOVE SEDIMENT BASIN, TP 1, STA NO -	56494.06
163-0550	122	EA	308.76	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	37668.72
165-0010	8200	LF	0.43	MAINTENANCE OF TEMPORARY SILT FENCE, TP A	3526.0
165-0030	10750	LF	1.83	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	19672.5
165-0060	20	EA	1213.72	MAINTENANCE OF TEMPORARY SEDIMENT BASIN, STA NO -	24274.4
165-0085	3	EA	197.95	MAINTENANCE OF SILT CONTROL GATE, TP 1	593.84
165-0086	2	EA	71.43	MAINTENANCE OF SILT CONTROL GATE, TP 2	142.86

165-0087	9	EA	178.48	MAINTENANCE OF SILT CONTROL GATE, TP 3	1606.32
165-0101	6	EA	660.01	MAINTENANCE OF CONSTRUCTION EXIT	3960.06
165-0105	122	EA	110.84	MAINTENANCE OF INLET SEDIMENT TRAP	13522.48
167-1000	2	EA	1349.35	WATER QUALITY MONITORING AND SAMPLING	2698.7
167-1500	24	MO	1035.76	WATER QUALITY INSPECTIONS	24858.23
171-0010	16300	LF	1.33	TEMPORARY SILT FENCE, TYPE A	21679.0
171-0030	22000	LF	3.84	TEMPORARY SILT FENCE, TYPE C	84480.0
643-8200	1000	LF	3.0	BARRIER FENCE (ORANGE), 4 FT	3000.0
Section Sub Total:					\$595,370.78

Section PERMANENT EROSION CONTROL

Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2181	1700	SY	32.18	STN DUMPED RIP RAP, TP 3, 18 IN	54706.0
603-7000	1700	SY	5.12	PLASTIC FILTER FABRIC	8704.0
700-6910	47	AC	906.91	PERMANENT GRASSING	42624.77
700-7000	94	TN	58.05	AGRICULTURAL LIME	5456.7
700-7010	120	GL	19.3	LIQUID LIME	2316.0
700-8000	50	TN	348.14	FERTILIZER MIXED GRADE	17407.0
700-8100	2400	LB	2.04	FERTILIZER NITROGEN CONTENT	4896.0
710-9000	9000	SY	3.65	PERMANENT SOIL REINFORCING MAT	32850.0
716-2000	9000	SY	1.15	EROSION CONTROL MATS, SLOPES	10350.0
Section Sub Total:					\$179,310.47

Section PERMANENT ROADWAY

Item Number	Quantity	Units	Unit Price	Item Description	Cost
212-1000	351	CY	18.22	GRANULAR EMBANKMENT, INCL MATL & HAUL	6395.21
310-1101	203600	TN	17.17	GR AGGR BASE CRS, INCL MATL	3495812.00
318-3000	16500	TN	17.21	AGGR SURF CRS	283965.0
402-1812	5120	TN	58.91	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	301619.19
402-3121	83540	TN	61.84	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	5166113.60
402-3130	27910	TN	58.94	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	1645015.4
402-3190	44210	TN	63.26	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	2796724.6
413-1000	44820	GL	1.84	BITUM TACK COAT	82468.8
441-0016	9980	SY	39.85	DRIVEWAY CONCRETE, 6 IN TK	397703.0
441-0104	8740	SY	37.12	CONC SIDEWALK, 4 IN	324428.8
441-4020	370	SY	41.31	CONC VALLEY GUTTER, 6 IN	15284.7
446-1100	42500	LF	2.71	PVMT REINF FABRIC STRIPS, TP 2, 18 INCH WIDTH	115175.0
456-2012	10	GLM	1125.15	INDENTATION RUMBLE STRIPS - GROUND-IN-PLACE (CONTINUOUS)	11251.5
Section Sub Total:					\$14,641,956.82

Section STRIPING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
653-0120	120	EA	73.05	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	8766.0
653-0170	110	EA	92.69	THERMOPLASTIC PVMT MARKING, ARROW, TP 7	10195.9
653-1704	500	LF	4.09	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	2045.0
653-1804	9000	LF	2.13	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	19170.0
653-2501	10	LM	1351.72	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	13517.2
653-2502	11	LM	1373.96	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	15113.56
653-2504	11	GLM	804.40	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN,	8848.40

4/6/2010

Detail Estimate: Cost Estimate Report

Item Number	Quantity	Units	Unit Price	Item Description	Cost
653-4502	2	GLM	773.55	WHITE THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, YELLOW	1547.1
653-6004	3900	SY	3.0	THERMOPLASTIC TRAF STRIPING, WHITE	11700.0
653-6006	400	SY	2.94	THERMOPLASTIC TRAF STRIPING, YELLOW	1176.0
654-1001	300	EA	3.1	RAISED PVMT MARKERS TP 1	930.0
654-1003	300	EA	3.82	RAISED PVMT MARKERS TP 3	1146.0
Section Sub Total:					\$95,146.15

Section SIGNING

Item Number	Quantity	Units	Unit Price	Item Description	Cost
632-0003	2	EA	15003.45	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	30006.9
636-1020	1500	SF	14.92	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	22380.0
636-1029	400	SF	16.65	HIGHWAY SIGNS, TP 2 MATL, REFL SHEETING, TP 3	6659.99
636-2070	2710	LF	8.07	GALV STEEL POSTS, TP 7	21869.7
636-5100	14	EA	191.12	MILEPOST SIGNS	2675.68
Section Sub Total:					\$83,592.28

Section MISCELLANEOUS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
620-0100	480	LF	30.94	TEMPORARY BARRIER, METHOD NO. 1	14851.2
634-1200	200	EA	103.44	RIGHT OF WAY MARKERS	20688.0
Section Sub Total:					\$35,539.20

Section LUMP ITEMS

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	1000000.0	TRAFFIC CONTROL -	1000000.0
153-1300	1	EA	75272.56	FIELD ENGINEERS OFFICE TP 3	75272.56
201-1500	1	LS	570000.0	CLEARING & GRUBBING -	570000.0
Section Sub Total:					\$1,645,272.56

Total Estimated Cost: \$21,576,810.05

ATTACHMENT 3

UTILITY COST ESTIMATE

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: **STP00-0000-00(544)**
 County **BROOKS**
 P.I. # **0000544**

OFFICE: **Tifton**
 DATE: **December 3, 2009**

Description: **SR 133 FM CR 10/PAULINE CH RD TO CR 1/OLD QUITMAN ADEL RD**

TW
FROM Tim Warren, P.E., District Utilities Engineer
TO Douglas Fadool, Project Manager

SUBJECT **UTILITY COST ESTIMATE**

A review of utilities located on the above referenced project has been conducted based on the latest available plans.. 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>
At&T/Bellsouth	\$0.00	\$87,912.00	Site Visit / Available Drawings
Mediacom	\$0.00	\$5,000.00	Site Visit / Available Drawings
City Of Morven **	\$0.00	\$197,500.00	Site Visit / Available Drawings
Georgia Power Company (Distr.	\$392,000.00	\$0.00	Site Visit / Available Drawings
Megacable, Llc *	\$0.00	\$24,000.00	Site Visit / Available Drawings
SOUTHERN NATURAL GAS CO	\$41,000.00	\$210,000.00	Site Visit / Available Drawings
Windstream Communications	\$112,500.00	\$319,047.00	Site Visit / Available Drawings
Colquitt Emc	\$385,000.00	\$105,000.00	Site Visit / Available Drawings
GEORGIA FLORIDA RAILWAY (see Richard Crowley- SUO)			
Total	\$930,500.00	\$948,459.00	

30% Utility Contingency for all relocation cost \$563,688.00

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

***Indicates that this local cable TV has already said they do not have the money for relocation.**

If additional information is needed, please contact me or Bill Cooper, Assistant District Utilities Engineer at (229) 386-3288.

BC
 TW:BC:KC:ec
 c: Jeff Baker, P.E., State Utilities Engineer
 Brent Thomas, District Preconstruction Engineer
 Angela Whitworth, State Financial Management Administrator

ATTACHMENT 4

PRELIMINARY RIGHT OF WAY COST ESTIMATE

PRELIMINARY RIGHT OF WAY COST ESTIMATE

Date: 3/18/2010
 Project: SR 133 Widening
 Project No: STP00-0000-00(544)
 Existing/Required R/W: Varies
 Project Termini: CR 10/Pauline Church Rd. to CR 1/Old Quitman Adel Rd.

P.I. Number 0000544
 No. Parcels 72

Project Description: SR 133 Widening from CR 10/Pauline Church Rd. to CR 1/Old Quitman Adel Rd.

Land:			
Commercial Land	0 acres @	\$100,000.00 /AC	\$ 0.00
Easements	0 acres @	\$0.00 /AC	\$ Unknown
Residential Land	46.18 acres @	\$10,000.00 /AC	\$ \$461,770.00
Easements	0 acres @	\$0.00 /AC	\$ Unknown
Special Use Land	0 acres @	\$0.00 /AC	\$ Unknown
Easements	0 acres @	\$0.00 /AC	\$ Unknown
TOTAL			\$ \$461,770.00
Improvements:	Unknown		\$ -
Relocations: There are no anticipated relocations within the project limits.			
Possible Misc. Moves			\$ 0.00
TOTAL			\$ 0.00
Damages:			
Proximity			\$ Unknown
Consequential			\$ Unknown
Cost to Cure			\$ Unknown
TOTAL			\$ 0.00
SUB-TOTAL:		Net Cost	\$ 461,770.00
		Scheduling Contingency 55%	\$ 253,973.50
		Adm/Court Cost 60%	\$ 429,446.10
TOTAL COST		\$1,145,189.60	

Prepared By: Mario V. Macrina, P.E.
 Wolverton & Associates, Inc.

Reviewed/Approved Howard P. Copeland
 R/W Administrator

Note: Accuracy of estimate is the sole responsibility of the preparer
 Note: The Market Appreciation (40%) is not included in this Preliminary Cost Estimate

ATTACHMENT 5
FUEL ADJUSTMENT

P.I. Number 0000544

County Brooks

Project Number STP00-0000-00(544)

Special Provision, Section 109-Measurement and Payment
FUEL PRICE ADJUSTMENT (ENGLISH 125% MAX)

ENTER FPL DIESEL	2.814
ENTER FPM DIESEL	6.332

ENTER FPL UNLEADED	2.647
ENTER FPM UNLEADED	5.95575

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

INCREASE ADJUSTMENT
125.00%

INCREASE ADJUSTMENT
125.00%

ROADWAY ITEMS	QUANTITY	DIESEL FACTOR	GALLONS DIESEL	UNLEADED FACTOR	GALLONS UNLEADED	REMARKS
Excavations paid as specified by Sections 205 (CUBIC YARD)	110000.000	0.29	31900.00	0.15	16500.00	
Excavations paid as specified by Sections 206 (CUBIC YARD)	295000.000	0.29	85550.00	0.15	44250.00	
GAB paid as specified by the ton under Section 310 (TON)	203600.000	0.29	59044.00	0.24	48864.00	
Hot Mix Asphalt paid as specified by the ton under Sections 400 (TON)		2.90		0.71		
Hot Mix Asphalt paid as specified by the ton under Sections 402 (TON)	160780.000	2.90	466262.00	0.71	114153.80	
PCC Pavement paid as specified by the square yard under Section 430 (SY)		0.25		0.20		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Bridge Excavation (CY) Section 211				8.00		1.50		
Class __ Concrete (CY) Section 500	1090.00	448.66	489.0394	8.00	3912.32	1.50	733.56	Class A Ret Wall
Class __ Concrete (CY) Section 500				8.00		1.50		
Class __ Concrete (CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500				8.00		1.50		
Concrete Handrail (LF) Section 500				8.00		1.50		
Concrete Barrier (LF) Section 500				8.00		1.50		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
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Stru Steel <u>Plan Quantity</u> (LB) Section 501				8.00		1.50		
Stru Steel <u>Plan Quantity</u> (LB) Section 501				8.00		1.50		
PSC Beams____ (LF) Section 507				8.00		1.50		
PSC Beams____ (LF) Section 507				8.00		1.50		
PSC Beams____ (LF) Section 507				8.00		1.50		
Stru Reinf <u>Plan Quantity</u> (LB) Section 511				8.00		1.50		
Stru Reinf <u>Plan Quantity</u> (LB) Section 511				8.00		1.50		
Bar Reinf Steel (LB) Section 511				8.00		1.50		
Piling____ inch (LF) Section 520				8.00		1.50		
Piling____ inch (LF) Section 520				8.00		1.50		
Piling____ inch (LF) Section 520				8.00		1.50		
Piling____ inch (LF) Section 520				8.00		1.50		
Piling____ inch (LF) Section 520				8.00		1.50		
Piling____ inch (LF) Section 520				8.00		1.50		
Drilled Caisson,____ (LF) Section 524				8.00		1.50		
Drilled Caisson,____ (LF) Section 524				8.00		1.50		
Drilled Caisson,____ (LF) Section 524				8.00		1.50		
Pile Encasement,____(LF) Section 547				8.00		1.50		
Pile Encasement,____(LF) Section 547				8.00		1.50		

SUM QF DIESEL=	646668.32	SUM QF UNLEADED=	224501.36
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DIESEL PRICE ADJUSTMENT(\$)	\$2,092,683.33
UNLEADED PRICE ADJUSTMENT(\$)	\$683,393.36

ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)

APPLICABLE TO CONTRACTS CONTAINING THE 413 SPEC. SECTION 413.5.01 ADJUSTMENTS ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT

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

ENTER APL

ENTER APM

125.00%	INCREASE ADJUSTMENT
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Use this side for Asphalt Emulsion Only		
L.I.N.	TYPE	ASPHALT EMULSION (GALLONS)
TMT =		<input style="width: 100px;" type="text"/>
REMARKS:		

Use this side for Asphalt Cement Only		
L.I.N.	TYPE	TACK (GALLONS)
TMT =		<input style="width: 100px;" type="text"/>
REMARKS:		

MONTHLY PRICE ADJUSTMENT(\$)	
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ADJUSTMENT SUMMARY

FUEL PRICE ADJUSTMENT (*ENGLISH 125% MAX*)

DIESEL PRICE ADJUSTMENT(\$) \$2,092,683.33

UNLEADED PRICE ADJUSTMENT(\$) \$683,393.36

ASPHALT CEMENT PRICE ADJUSTMENT (*BITUMINOUS TACK COAT 125% MAX*) \$114,117.78

400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT *125% MAX* \$4,765,519.20

ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(*Surface Treatment 125% MAX*)

REMARKS:

TOTAL ADJUSTMENTS	\$7,655,713.68
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ATTACHMENT 6

ENVIRONMENTAL MITIGATION COST ESTIMATE

PRELIMINARY MITIGATION COST ESTIMATE

Date: 4/6/2010
Project: SR 133 Widening
Project No: STP00-0000-00(544)
P.I. Number: 0000544
Project Termini: CR 10/Pauline Church Rd. to CR 1 /Old Quitman Adel Rd.
Project Description: SR 133 Widening from CR 10/Pauline Church Rd. to CR 1 /Old Quitman Adel Rd.

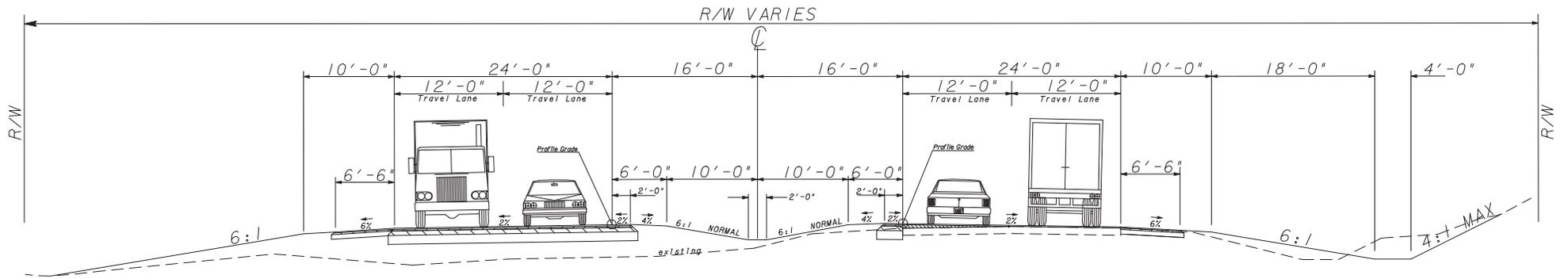
Mitigation Cost; assuming that a Wetland Credit cost of \$7,000 per credit and a Stream Credit cost \$100 per credit

Project No.	Required Stream Credits	Cost of Credit	
STP00-0000-00(544)	2030.30	\$45.00	\$91,363.50
	Total Stream Credits	2030.30	
		Sub-Total	\$91,363.50

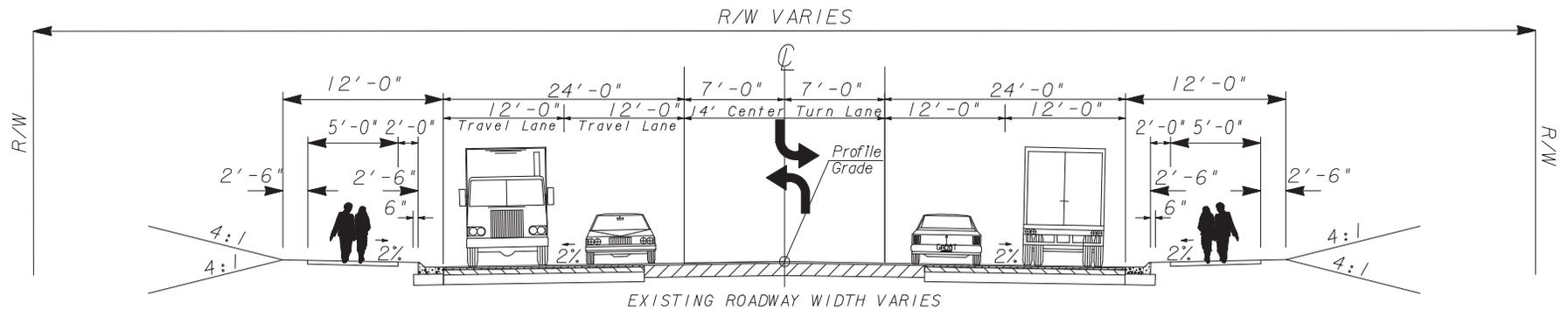
Project No.	Required Wetland Credits	Cost of Credit	
STP00-0000-00(544)	49.53	\$3,500.00	\$173,355.00
	Total Wetland Credits	49.53	
		Sub-Total	\$173,355.00
		Total	\$264,718.50

ATTACHMENT 7

TYPICAL SECTIONS



4 Lanes With a 32' Median
 Pauline Church Road/C.R. 10 to Lawson Pond Road



4 Lanes With a 14' Flush Median and Sidewalk
 Lawson Pond Road to Old Quitman Adel Road/C.R. 1

ATTACHMENT 8

VALUE ENGINEERING IMPLEMENTATION LETTER

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: STP-0000-00(543), (544), (545), & (546) **OFFICE:** Engineering Services
STP-032-2(28) Brooks/Colquitt
P.I. Nos. 0000543, 0000544, 0000545, 0000546, & 431780
S.R. 133 Widening/Reconstruction

DATE: December 20, 2006

FROM:  Brian K. Summers, PE, State Project Review Engineer

TO: Babs Abubakari, PE, State Consultant Design and Program Delivery Engineer

**SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY
ALTERNATIVES**

Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. Incorporate the VE alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT #	Description	Potential Savings/LCC	Implement	Comments
STP-0000-00(543)				
543-1	Construct only the first 3.7 miles through Troupville	\$8,272,625	No	Does not satisfy the Need and Purpose of the project.
543-3/4/5	Selectively eliminate median openings, left turn lanes and U-turn bump outs	\$96,479	Yes	This will be done.
543-6	Eliminate sidewalks (concrete only)	\$671,246	No	Does not satisfy current GDOT Policy.
543-7	Use a grass median in lieu of a concrete median	\$1,060,722	No	This project does not have many sections where the median width is consistently over 8 feet which is when grass medians could be used.
543-8	Minimize the extent of side road improvements	Design Suggestion	Yes	This will be done.
543-9	Use a five-lane section through Troupville from Augusta Drive to Fellowship Home Lane	\$1,652,706	Yes	The traffic on this corridor warrants a five lane section per current GDOT Policy.

**STP-0000-00(543), (544), (545), & (546) & STP-032-2(28) Brooks/Colquitt
Implementation of Value Engineering Study Alternatives
Page 2.**

ALT #	Description	Potential Savings/LCC	Implement	Comments
STP-0000-00(544)				
544-1	Construct only 1.45 miles of S.R. 133 from Lawson Pond Road to Old Quitman Road through the town of Morven	\$11,551,485	No	Does not satisfy the Need and Purpose of the project.
544-3/4/5	Selectively eliminate median openings, left turn lanes and U-turn bump outs	\$48,080	Yes	This will be done.
544-7	Use a five-lane section through Morven from Old Quitman Road to Lawson Pond Road	\$900,062	Yes	The traffic on this corridor warrants a five lane section per current GDOT Policy.
544-8	Cul-de-sac Hitch Road and eliminate intersection with S.R. 133	-\$26,648 (Cost Increase)	Yes	This will be done.
544-9	Use arch span structures in lieu of box culverts	\$210,021	Yes	This should be considered depending on survey of existing geotechnical conditions and costs.
544-10	Complete mainline railroad crossing prior to closing other city railroad crossings	Design Suggestion	Yes	This will be done.
STP-0000-00(545)				
545-1	Improve only two intersections: S.R. 133 @ S.R. 333 and S.R. 133 @ S.R. 26	\$32,898,183	No	Does not satisfy the Need and Purpose of the project.
545-2/3/4	Selectively eliminate median openings, left turn lanes and U-turn bump outs	Proposed \$310,031 Actual \$155,016	Yes	The median opening 1,450 feet north of Rock Hill Road can not be eliminated. The other one can be eliminated.
545-6	Use arch span structures in lieu of multi-cell box culverts	\$37,797	Yes	This should be considered depending on survey of existing geotechnical conditions and costs.
545-7	Use a 32 foot median section in lieu of a 44 foot median section to minimize wetland impacts near Berlin	\$40,623	No	Does not satisfy "GODT Policy Regarding Median Width Reduction for Minimization of Impacts to Wetlands" dated 2/5/98.
545-8	Use a grass median in lieu of a concrete median	\$1,557,131	Yes	This will be done.

**STP-0000-00(543), (544), (545), & (546) & STP-032-2(28) Brooks/Colquitt
Implementation of Value Engineering Study Alternatives
Page 3.**

ALT #	Description	Potential Savings/LCC	Implement	Comments
STP-0000-00(546)				
546-1	Construct S.R. 133 through Berlin and the Eastern portion of Moultrie only	\$23,499,437	No	Does not satisfy the Need and Purpose of the project.
546-2/3/4	Selectively eliminate median openings, left turn lanes and U-turn bump outs	Proposed -\$32,301 (Cost Increase) Actual \$139,585	Yes	Actual cost savings are based on using a grass median in lieu of a concrete median. Four of the five median openings will be eliminated. The median opening at Sta. 360+00 can not be eliminated.
546-5	Eliminate sidewalks (concrete only)	\$169,915	No	Does not satisfy current GDOT Policy.
546-6	Use a grass median in lieu of concrete median	\$4,503,449	Yes	This will be done.
546-8	Use a five-lane section through the City of Berlin and Eastern Moultrie	\$82,258	Yes	This will be done.
546-9	Use arch span structures in lieu of multi-cell box culverts	-\$235,910 (Cost Increase)	No	Cost increase does not appear to justify using arch span structures.
546-10	Signalize South Vanderberg Drive entrance to airport (Spence Field)	-\$200,565 (Cost Increase)	No	Does not appear to meet Traffic Signal warrants.
STP-032-2(28)				
28-2/3	Selectively eliminate median openings, left turn lanes and U-turn bump outs	-\$2,426 (Cost Increase)	Yes	This will be done.
28-4	Eliminate sidewalks (concrete only)	\$1,114,135	No	Does not satisfy current GDOT Policy.
28-5	Use a grass median in lieu of concrete median	\$1,410,923	No	This project does not have many sections where the median width is consistently over 8 feet which is when grass medians could be used.
28-7	Use a five-lane section through East Moultrie from South Vanderberg Drive to the East Moultrie Bypass (S.R. 35)	\$954,136	Yes	This will be done.

**STP-0000-00(543), (544), (545), & (546) & STP-032-2(28) Brooks/Colquitt
Implementation of Value Engineering Study Alternatives
Page 4.**

ALT #	Description	Potential Savings/LCC	Implement	Comments
STP-032-2(28) - continued				
28-8	Provide new intersection at Quail Run and Sanderson Farms Chicken Plant and eliminate Old Moultrie-Adel Road/S.R. 133 intersection	-\$464,032 (Cost Increase)	No	This work will be done under another separate project.

A meeting was held on December 20, 2006 to discuss the above recommendations. David Norwood of Consultant Design and Ron Wishon, Lisa Myers and Brian Summers of Engineering Services were in attendance.

The results above reflect the consensus of those in attendance and those who provided input.

Approved:  Date: 12/20/06
David E. Studstill, Jr., P. E., Chief Engineer

BKS/REW
Attachments

- c: Gus Shanine
- James Magnus
- David Norwood
- Karyn Matthews
- Jack Muirhead
- Alexis John
- Nabil Raad
- Lisa Myers

ATTACHMENT 9

APPROVED TRAFFIC DATA

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE STP00-0000-00(544), Brooke County **OFFICE** Planning
P.I. # 0000544
DATE December 14, 2009

FROM Angela T. Alexander, State Transp. Planning Administrator

TO Bobby Hilliard, P.E., State Program Delivery and Consultant Design
Engineer
Attention: Douglas Fadool

SUBJECT Reviewed Design Traffic for S.R. 133 from C.R. 10/Pauline Church Rd. to
C.R. 1/Old Quitman Adel Rd.

As per your request, we reviewed the consultant's Design Traffic for the
above project. These are our findings:

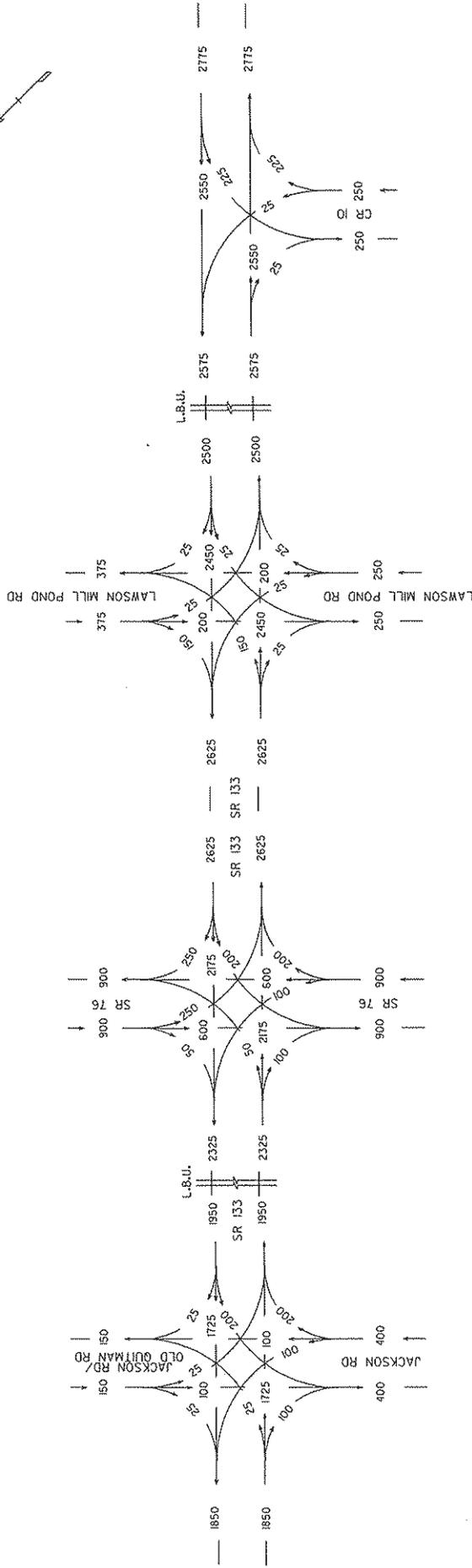
The Design Traffic is approved. If you have any questions concerning this
information please contact Abby Ebodaghe at (404) 631-1923.

ATA/AFE

BROOKS COUNTY

Wolverton & Associates

WOLVERTON & ASSOCIATES, INC.
6745 SUGARLOAF PARKWAY
SUITE 100
DULUTH, GA 30097
(770) 447-8999



STP00-0000-001544)
P.I.# 0000544
BROOKS CO.

SR 133
FM PAULINE CH RD
TO OLD GUITMAN RD.

2008 ADT = 000
24 HR. T = 25%
S.U. = 8%
COMB. = 17%

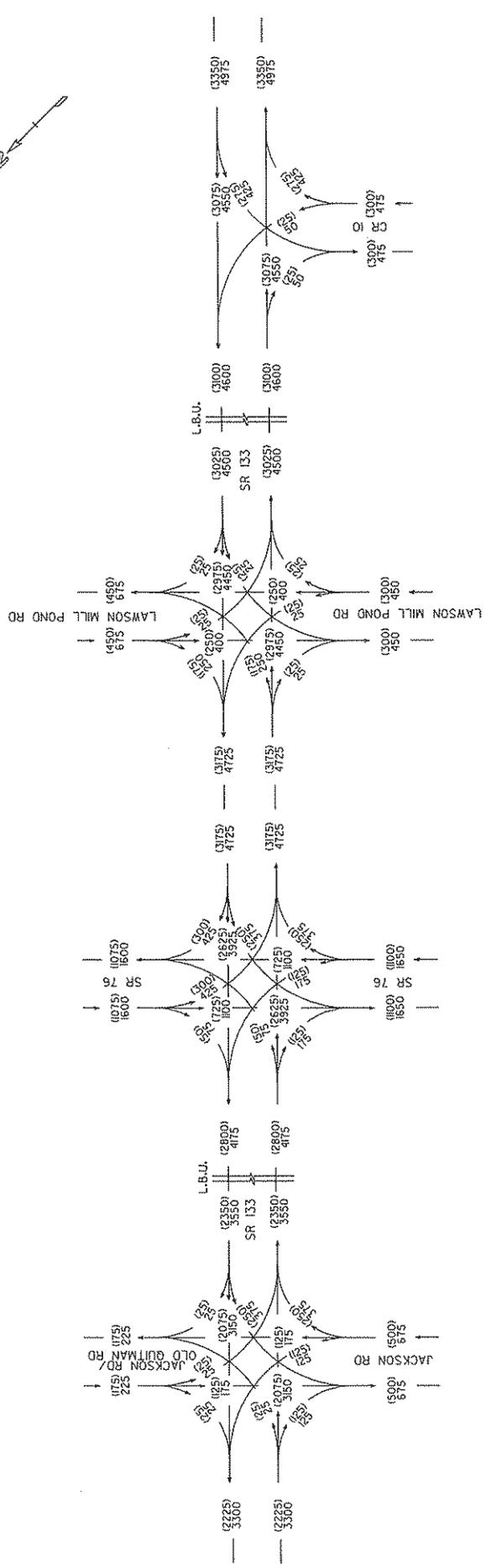
TD
12/09

BUILD CONDITIONS

BROOKS COUNTY

Wolverton & Associates

WOLVERTON & ASSOCIATES, INC.
 6745 SUGARLOAF PARKWAY
 SUITE 100
 DULUTH, GA 30097
 (770) 447-8998

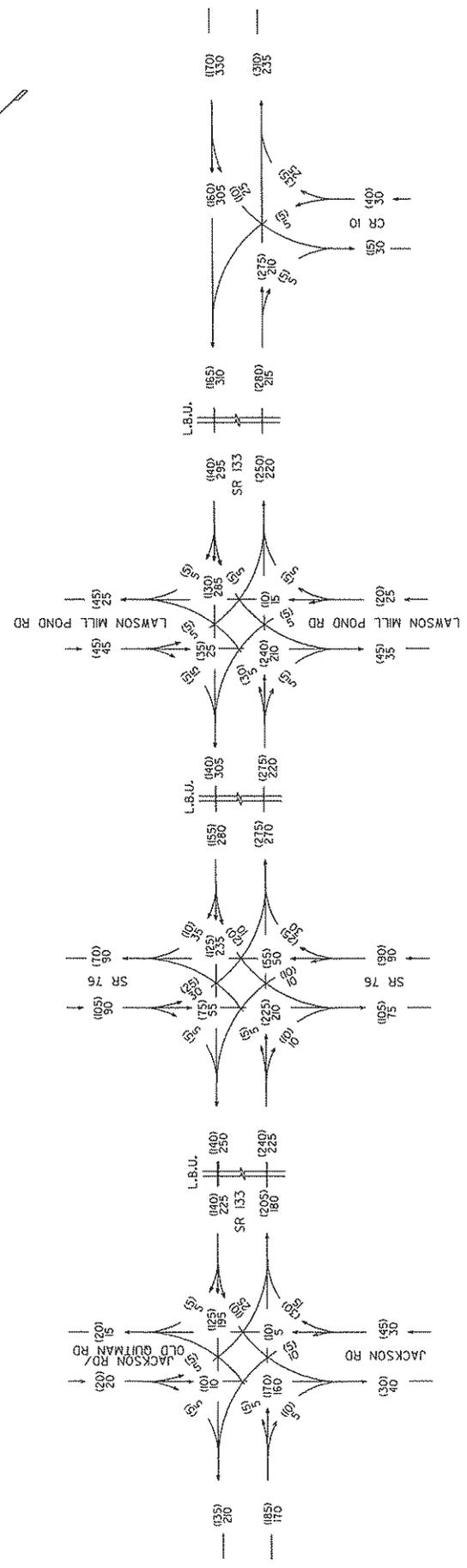


STP00-0000-00(544)
 P.I. # 0000544
 BROOKS CO.
 SR 133
 FM PAULINE CH RD
 TO OLD GUITMAN RD.
 2016 ADT = 1000
 2036 ADT = 000
 24 HR. T = 25%
 S.U. = 8%
 COMB. = 17%
 TD
 12/09

BUILD CONDITIONS

BROOKS COUNTY

Wolverton & Associates
 WOLVERTON & ASSOCIATES, INC.
 6745 SUGARLOAF PARKWAY
 SUITE 100
 DULUTH, GA 30097
 (770) 447-8898



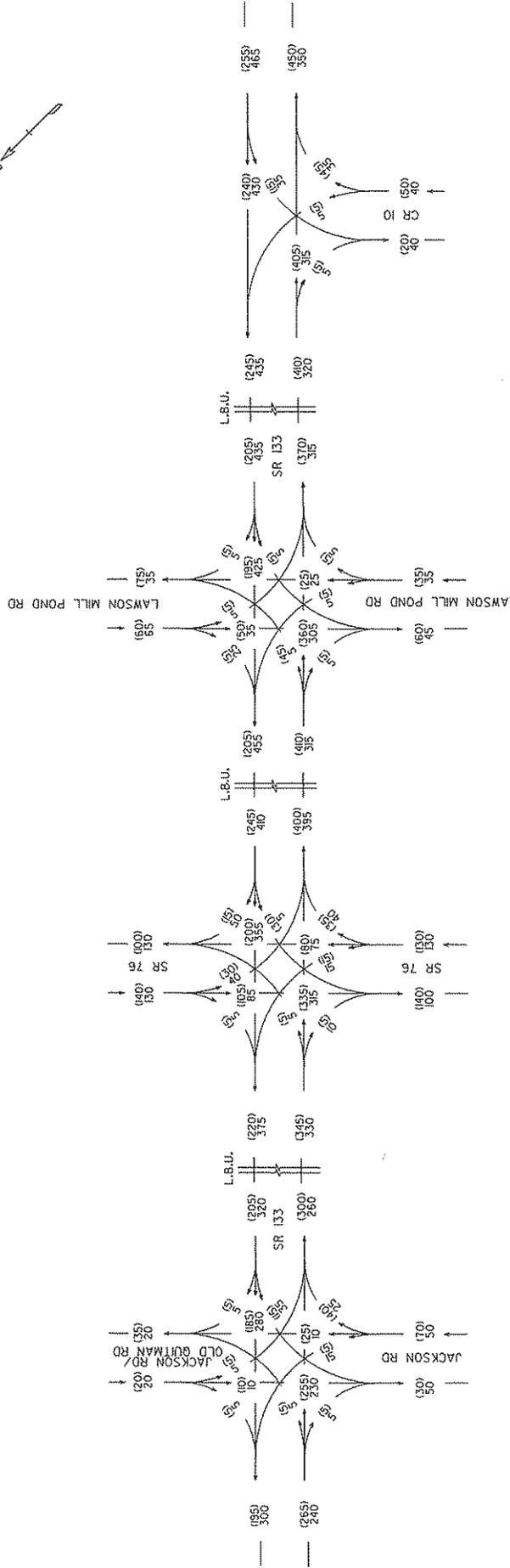
STP00-0000-001544
 P.I. # 0000544
 BROOKS CO.
 SR 133
 FM PAULINE CH RD
 TO OLD QUITMAN RD.
 2016 AM DHV = 1000
 2016 PM DHV = 000
 PEAK HR. T = 21%
 S.U. = 8%
 COMB. = 13%
 TD
 12/09

BUILD CONDITIONS

BROOKS COUNTY

W
Wolverton & Associates

WOLVERTON & ASSOCIATES, INC.
6745 SUGARLOAF PARKWAY
SUITE 100
DULUTH, GA 30097
(770) 447-8999



STP00-0000-00(544)
 P.I. # 0000544
 BROOKS CO.
 SR 133
 FM PAULINE CH RD
 TO OLD GUITMAN RD.
 2036 AM DHV = (000)
 2036 PM DHV = 000
 PEAK HR. T = 21%
 S.U. = 8%
 COMB. = 13% TD
 12/09

BUILD CONDITIONS