ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. # 431830-
STP00-0079-01(042)
Coffee County
GDOT District 4 - Tifton
Widening: SR 135 from SR 31/US 441
East to SR 32 - Includes RR separation

OFFICE Design Policy & Support

DATE 6/02/2015

FROM Kim Phillips for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED REVISED CONCEPT REPORT**

Attached is the approved Concept Report 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
Charles "Chuck" Hasty, State Materials Engineer
Lee Upkins, State Utilities Engineer
Richard Cobb, Statewide Location Bureau Chief
Chad Hartley, District Engineer
Brent Thomas, District Preconstruction Engineer
Tim Warren, District Utilities Engineer
Stevonn Dilligard, Project Manager
BOARD MEMBER - 4th Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
REVISED PROJECT CONCEPT REPORT

Project Type: Widening
GDOT District: 4 - Tifton
Federal Route Number: 221, 441
P.I. Number: 431830
County: Coffee
State Route Number: 135, 206, 31, 32, 158
Project Number: *STP00-0079-01(042)*

The changes to the approved 2010 Revised Concept Report include removal of 20' raised median along SR 135 from east of intersection with US 441 to intersection with McDonald/Old Axson Road. This change is based on requests from GDOT Chief Engineer and Director of Engineering.

Submitted for approval:

Helen R. Haubin, Columbia Engineering — 3/4/15
Consultant Designer & Firm or GDOT Concept/Design Phase Office Head & Office — Date

Albert Shelby — 3/26/15
State Program Delivery Engineer — Date

Steven Dillard — 3/23/2015
GDOT Project Manager — Date

Recommendation for approval:

* HIRAL PATEL — 4/20/2015
State Environmental Administrator — Date

* ANDREW HEATH — 4/6/2015
State Traffic Engineer — Date

* BEN RABUN — 5/13/2015
State Bridge Engineer — Date

☐ MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).

x Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).

* CYNTHIA L VANDYKE — 4/7/2015
State Transportation Planning Administrator — Date

* RECOMMENDATION(S) ON FILE -

PLANNING, APPROVED CONCEPT, AND BACKGROUND

Project Justification Statement: *The proposed project is needed to address current and future traffic congestion, therefore improving the LOS. Specifically, the overpass is needed reduce crash frequency and severity at the railroad tracks as well as improve the travel time and operational traffic flow for trucks using Perimeter Road. The project's purpose will be to improve and enhance the operational flow for traffic along Perimeter Road and the flow of regional traffic, cars, and trucks traveling on the SR 32 GRIP corridor between 1-95 and 1-75 and needing to bypass the city of Douglas.*

Existing conditions: *SR 135 is an existing 2-lane and 3-lane roadway with variable 8' to 10' rural shoulders and 10' urban shoulders. The project ties into an existing 5-lane section, which is the SW portion of the Douglas bypass. The signalized intersections include US 441, Gaskin Avenue, McDonald/Old Axson Road, SR 158/Baker Highway, SR 32 E/Ward Street and SR 32 W/US 221 N/Westgreen Road. There is an existing at grade CSX railroad crossing. The major existing structures include double 8' x 5' box culvert, several double 6' x 6' box culverts, double 5' x 6' box culvert, several double 5' x 5' box culverts, double 4' x 10' box culvert, single 8' x 8' box culvert, single 4' x 4' box culvert, and 60" RCP. There are major transmission lines on the southern side of SR 135 and cross SR 135 to a substation on the north side. Douglas also has a water treatment plant located on the north east side of SR 135, off of Iron/Spooner Road. The project corridor is 100% in the City of Douglas limit and has posted speed limits varying from 35 mph to 55 mph.*

Description of the approved concept: *The approved revised project concept proposed to widen and reconstruction SR 135/Perimeter Road from US 441 east to SR 32, including a railroad separation. There were two typical sections for the project corridor. The first typical section provided four 12' lanes, a 20' raised median, and 12' urban shoulders with curb and gutter and 5' sidewalk from US 441 to Old Axon/McDonald Road. From Old Axon/McDonald Road to the end of the project, the second typical section provided four 12' lanes, a 14' flush median, and 10' rural shoulders. The existing at-grade railroad crossing with CSX would be replaced with a 252' x 75.92' concrete bridge, with 8' raised median, that spans the railroad and Iron Road, which runs parallel to the track. SR 158/Baker Highway west of SR 135 proposed an urban 12' shoulder without sidewalk. Old Bell Lake Road was proposed to be realigned to remove less than acceptable skew angle. The proposed design speed is 45 mph. The proposed project length is 2.77 miles. The project corridor is located 100% within the City of Douglas limits and is part of the Douglas bypass.*

Federal Oversight: ☐ PoDI x Exempt ☐ State Funded ☐ Other

Projected Traffic as shown in the approved Concept Report: *ADT or AADT*
Open Year (2016): 19,200 Design Year (2036): 26,000

Functional Classification (Mainline): Urban Principal Arterial
Roadway classifications are maintained by Office of Transportation Data

VE Study anticipated: ☐No ☐ Yes x Completed – Date: 7/20 -7/23/09

PROPOSED REVISIONS

Approved Features:	Proposed Features:
The approved Revised Concept Report proposed widening SR 135 with a 20' raised concrete median from the intersection of US 441 to the intersection of McDonald/Old Axson Road.	*This revised concept report proposes to replace the previously proposed 20' raised concrete median with a 14' flush median, but with maintaining the overall footprint for future 20' raised median from the east of the intersection with US 441 to the intersection with Old Axson/McDonald Road. However, the proposed raised concrete median shall remain in the revised design from the intersection with US 441 to approximately 361' eastward to protect the access control.*
Reason(s) for change: *Per request from Chief Engineer and Director of Engineering, the 20' raised concrete median will be removed.*	

ENVIRONMENTAL AND PERMITS

Potential environmental impacts of proposed revision: *Because the project footprint is not changing, there are no anticipated environmental impacts. In addition, there are no anticipated effects to the environmental schedule as all environmental documents have already been submitted for approval with the revised information.*

Have proposed revisions been reviewed by environmental staff? ☐ No x Yes

Environmental responsibilities (Studies/Documents/Permits): *The revised studies, documents, and permits are completed by Consultant (Edwards-Pitman) and are currently in GDOT review process.*

Air Quality:

Is the project located in a PM 2.5 Non-attainment area?	x No	☐ Yes
Is the project located in an Ozone Non-attainment area?	x No	☐ Yes
Is a Carbon Monoxide hotspot analysis required?	x No	☐ Yes

PROJECT COST AND ADDITIONAL INFORMATION

Item	Estimated Cost	Date of Estimate	Funded By
Base Construction Cost:	$20,932,633.50	3/2/2015	
Engineering and Inspection:	$1,046,631.68	3/4/2015	
Contingencies:	$837,305.34	3/4/15	
Liquid AC Adjustment:	$2,010,360.82	3/4/2015	
Total Construction Cost:	$24,826,931.34		
Right-of-Way:	$4,310,000.00	6/13/2012	L200
Utilities (reimbursable costs):	$280,879.50	3/16/2015	M001

Environmental Mitigation:	$155,000.00	3/23/2015	M001
TOTAL PROJECT COST:			

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

Attachments:

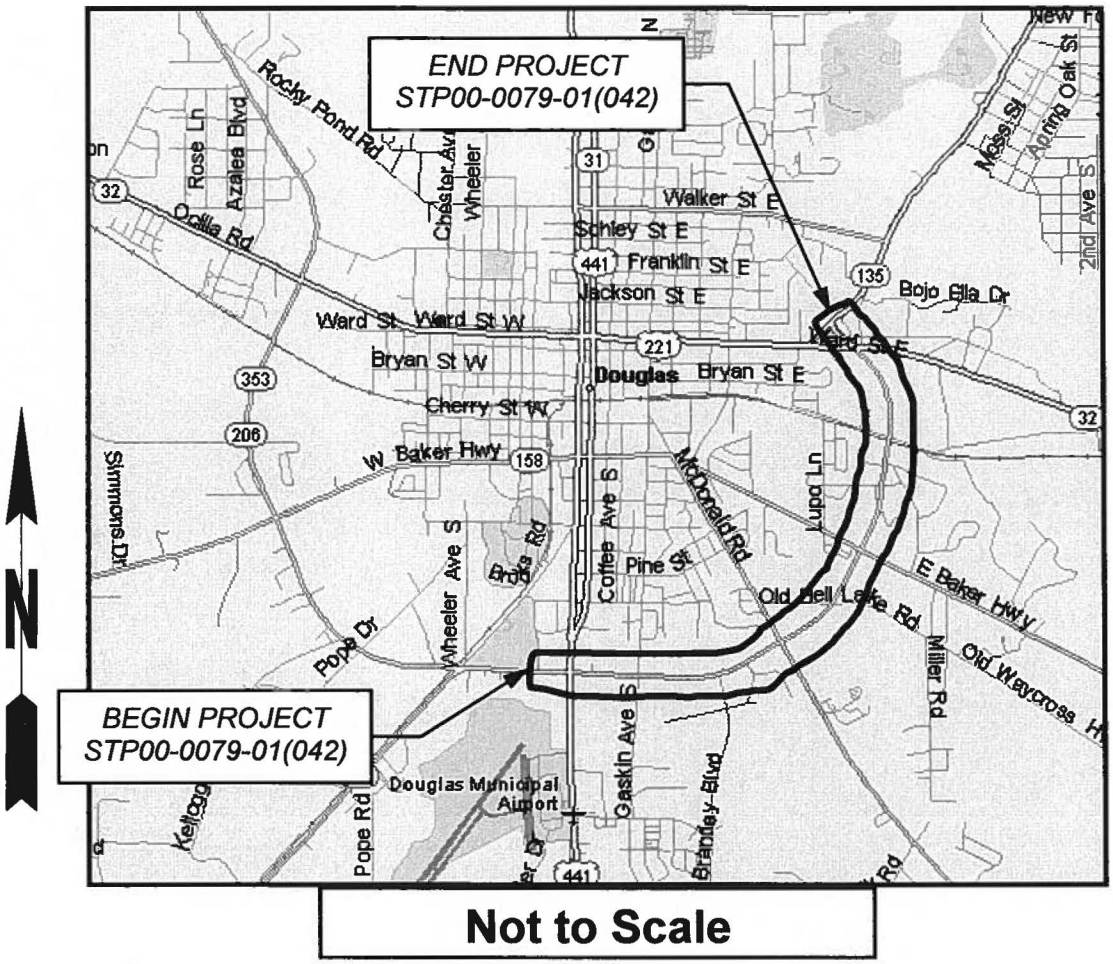
1. Sketch map
2. Cost Estimate(s)
3. Affected Typical Sections
4. Email from Director of Engineering

APPROVALS

Concur: Glen Bow
Director of Engineering

Approve: Margaret B. Pinkle 5.27.15
Chief Engineer Date

PROJECT LOCATION MAP



STP00-0079-01(042), Coffee County
SR 135 fm SR 31/US 441 East to SR 32 Incl. RR Separation
PI 431830

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. **431830-**

OFFICE Program Delivery

PROJECT DESCRIPTION

SR 135 FM SR 31/US 441 EAST TO SR 32 INCLUDING RR SEPARATION

DATE March 23, 2015

From: AlbertV. Shelby, III, State Program Delivery Engineer

To: Lisa L. Myers, State Project Review Engineer

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Stevonn J. Dilligard

MGMT LET DATE 7/17/2015

MGMT ROW DATE 10/15/2012

PROGRAMMED COSTS (TPro W/OUT INFLATION)			**LAST ESTIMATE UPDATE**	
CONSTRUCTION	$	24,675,347.35	DATE	8/8/2014
RIGHT OF WAY	$	4,310,000.00	DATE	6/13/2012
UTILITIES	$		DATE	

REVISED COST ESTIMATES

CONSTRUCTION*	$	25,088,589.21	
RIGHT OF WAY	$	4,310,000.00	Authorized 8/3/2012
UTILITIES	$	280,879.50	

*Cost Contains 5 % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

Revised Cost Estimate - Medium Risk - Reconstruction/Rehabilitation No Added Capacity, 5%

CONTINGENCY SUMMARY

A.	CONSTRUCTION COST ESTIMATE:	$ 20,932,633.46	Base Estimate From CES	
B.	ENGINEERING AND INSPECTION (E & I):	$ 1,046,631.67	Base Estimate (A) x	5 %
C.	CONTINGENCY:	$ 1,098,963.26	Base Estimate (A) + E & I (B) x See % Table in "Risk Based Cost Estimation" Memo	5 %
D.	TOTAL LIQUID AC ADJUSTMENT:	$ 2,010,360.82	Total From Liquid AC Spreadsheet	
E.	CONSTRUCTION TOTAL:	$ 25,088,589.21	(A + B + C + D = E)	

REIMBURSABLE UTILTY COSTS

UTILITY OWNER	REIMBURSABLE COST
City of Douglas	$ 148,970.00
MEAG Power	$ 88,195.50
Satilla REMC	$ 43,714.00
TOTAL	$ 280,879.50

ATTACHMENTS:

Detailed Cost Estimate Printout From TRAQS
Liquid AC Adjustment Spreadsheet

PROJ. NO.	STP00-0079-01(042)	CALL NO.	9/29/2009
P.I. NO.	431830-		
DATE	3/23/2015		

INDEX (TYPE)	**DATE**	**INDEX**
REG. UNLEADED	Mar-15	$ 2.291
DIESEL		$ 2.848
LIQUID AC		$ 510.00

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)			**1996435.8**	**$**	**1,996,435.80**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 816.00		
Monthly Asphalt Cement Price month project let (APL)			$ 510.00		
Total Monthly Tonnage of asphalt cement (TMT)			6524.3		

ASPHALT	**Tons**	**%AC**	**AC ton**
Leveling	59057	5.0%	2952.85
12.5 OGFC		5.0%	0
12.5 mm	16433	5.0%	821.65
9.5 mm SP		5.0%	0
25 mm SP	33713	5.0%	1685.65
19 mm SP	21283	5.0%	1064.15
	130486		**6524.3**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$ 13,925.02**	**$**	**13,925.02**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 816.00		
Monthly Asphalt Cement Price month project let (APL)			$ 510.00		
Total Monthly Tonnage of asphalt cement (TMT)			45.50659427		

Bitum Tack Gals	gals/ton	tons
10595	232.8234	45.5065943

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)			**0**	**$**	**-**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 816.00		
Monthly Asphalt Cement Price month project let (APL)			$ 510.00		
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	**$**	**2,010,360.82**

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: **STP00-0079-01(042)** OFFICE: **Tifton**
County **COFFEE** DATE: **March 16, 2015**
P.I. # **431830-**

Description: ***SR 135 From US 441/SR 31 East to SR 32, Including RR Separation***

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

TO Stevonn J. Dilligard, Project Manager ***(VIA EMAIL)***

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.

Utility Owner	Reimbursable	Non-Reimbursable	Estimate Based on
Alma Telephone Company	$0.00	$35,000.00	NO COST LETTER
City of Douglas	$148,970.00	$110,000.00	Formal Cost Estimate from Utility
CSX Railroad	$0.00	$0.00	"See Jill Franks for RR cost"
MEAG Power	$88,195.50	$90,000.00	Formal Cost Estimate from Utility
Mediastream	$0.00	$135,000.00	NO COST LETTER
The Satilla REMC	$43,714.00	$184,000.00	Formal Cost Estimate from Utility
Windstream Communications	$0.00	$560,000.00	NO COST LETTER
Total	$280,879.50	$1,114,000.00	

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

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

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

c: Nick Fields, State Utilities Office
Lee Upkins, State Utilities Office
Jun Birnkammer, State Utilities Office
Brent Thomas, District Preconstruction Engineer

DATE : 03/02/2015
PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 431830-RC SPEC YEAR: 01
DESCRIPTION: COST ESTIMATE FOR REVISED CONCEPT REPORT - 3-2-15
SE DOUGLAS BYPASS

ITEMS FOR JOB 431830-RC

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0009	402-1812		TN	RECYL AC LEVELING,INC BM&HL	59057.000	63.60	3756164.57
0010	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	21283.000	66.66	1418858.01
0015	402-3113		TN	RECYL AC 12.5MM SP,GP1/2,BM&HL	16433.000	57.08	937995.64
0020	402-3143		TN	RECYL AC 25 MM SP,GP 1 OR 2,INCL BM	33713.000	85.00	2865605.00
0025	413-1000		GL	BITUM TACK COAT	10595.000	2.19	23270.96
0030	456-2012		GLM	INTENT. RUMB. STRIPS - GRND-IN-PL (CONT)	2.000	666.91	1333.82
0035	201-1500		LS	CLEARING & GRUBBING - STP00-0079-01(042)	1.000	150000.00	150000.00
0045	310-5060		SY	GR AGGR BS CRS 6IN INCL MATL	25044.000	9.07	227271.29
0050	310-5100		SY	GR AGGR BS CRS 10IN INCL MATL	79514.000	16.47	1309595.58
0055	318-3000		TN	AGGR SURF CRS	1000.000	24.50	24505.13
0059	444-1000		LF	SAWED JTS IN EXIST PVMTS - PCC	302.000	3.91	1181.17
0060	205-0001		CY	UNCLASS EXCAV	64000.000	5.42	347319.68
0065	206-0002		CY	BORROW EXCAV, INCL MATL	169400.000	4.61	780934.00
0070	207-0203		CY	FOUND BKFILL MATL, TP II	428.000	53.01	22691.76
0073	632-0003		EA	CHANGEABLE MESS SIGN,PORT,TP 3	8.000	8802.91	70423.33
0074	635-1000		LF	BARRICADES	72.000	57.66	4151.92
0075	648-1550		EA	IMPACT ATT UNIT, TP-S- S	8.000	25000.00	200000.00
0080	163-0232		AC	TEMPORARY GRASSING	18.000	493.74	8887.48
0085	163-0240		TN	MULCH	694.000	141.14	97954.24
0086	700-7000		TN	AGRICULTURAL LIME	105.000	45.85	4815.06
0087	700-8000		TN	FERTILIZER MIXED GRADE	36.000	621.94	22389.96
0088	700-8100		LB	FERTILIZER NITROGEN CONTENT	1750.000	2.03	3553.04
0097	163-0300		EA	CONSTRUCTION EXIT	5.000	1404.58	7022.93
0102	163-0503		EA	CONSTR AND REMOVE SILT CONTROL GATE,TP 3	53.000	344.76	18272.47
0107	163-0520		LF	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	2701.000	13.84	37395.51
0112	163-0529		LF	CNST/REM TEMP SED BAR OR BLD STRW CK DM	11640.000	3.57	41611.37
0117	163-0541		EA	CONSTR & REM ROCK FILTER DAMS	9.000	562.72	5064.57
0122	163-0542		EA	CONSTR & REM STONE FILTER RING	2.000	451.31	902.62
0127	163-0550		EA	CONS & REM INLET SEDIMENT TRAP	161.000	158.89	25582.06
0130	163-0531		EA	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO-119+65 LT	1.000	11871.71	11871.72
0131	163-0531		EA	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO-126+50 LT	1.000	11871.71	11871.72
0132	162-1300		EA	EROSION CONTROL CHECK DAM, TP - ROCK	3.000	640.01	1920.03
0133	165-0060		EA	MAINT OF TEMP SEDIMENT BASIN,STA NO - 119+65 LT	1.000	2351.07	2351.08
0136	165-0060		EA	MAINT OF TEMP SEDIMENT BASIN,STA NO - 126+50 LT	1.000	2351.07	2351.08

JOB ESTIMATE REPORT

0137	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	18973.000	0.37	7130.81
0142	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	19971.000	0.44	8956.59
0147	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	11643.000	0.64	7550.25
0152	165-0050	LF	MAINT OF SILT RETENTION BARRIER	50.000	10.22	511.00
0157	165-0087	EA	MAINT OF SILT CONTROL GATE, TP 3	53.000	60.72	3218.62
0162	165-0101	EA	MAINT OF CONST EXIT	5.000	636.64	3183.20
0167	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	161.000	35.55	5723.70
0172	165-0110	EA	MAINT OF ROCK FILTER DAM	9.000	141.40	1272.62
0177	165-0111	EA	MAINT OF STONE FILTER RING	2.000	159.20	318.42
0182	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	6.000	352.12	2112.73
0187	167-1500	MO	WATER QUALITY INSPECTIONS	36.000	537.00	19332.35
0192	170-1000	LF	FLOAT SILT RETENTION BARRIER	50.000	12.44	622.00
0197	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	37946.000	1.69	64232.33
0202	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	39941.000	2.88	115195.44
0206	716-1000	SY	EROSION CONTROL MATS,WATERWAYS	15688.000	2.11	33231.26
0207	716-2000	SY	EROSION CONTROL MATS, SLOPES	34440.000	1.13	39103.18
0212	433-1200	SY	REF CONC APPR SL/I SLOPED EDGE	490.000	173.91	85215.90
0217	500-0100	SY	GROOVED CONCRETE	490.000	7.55	3700.21
0222	441-0016	SY	DRIVEWAY CONCRETE, 6 IN TK	187.000	39.84	7451.21
0227	441-0018	SY	DRIVEWAY CONCRETE, 8 IN TK	893.000	42.96	38367.80
0232	441-0104	SY	CONC SIDEWALK, 4 IN	6505.000	26.79	174316.11
0237	441-0748	SY	CONC MEDIAN, 6 IN	1473.000	40.63	59861.34
0242	441-4020	SY	CONC VALLEY GUTTER, 6 IN	198.000	37.86	7496.75
0247	441-4030	SY	CONC VALLEY GUTTER, 8 IN	655.000	43.20	28301.39
0252	550-1180	LF	STM DR PIPE 18",H 1-10	7169.000	30.92	221735.09
0257	550-1240	LF	STM DR PIPE 24",H 1-10	1560.000	39.97	62355.76
0262	550-1242	LF	STM DR PIPE 24",H 15-20	90.000	50.05	4504.50
0267	550-1300	LF	STM DR PIPE 30",H 1-10	298.000	60.00	17880.59
0272	550-1360	LF	STM DR PIPE 36",H 1-10	2401.000	58.87	141365.93
0277	550-1420	LF	STM DR PIPE 42",H 1-10	332.000	78.82	26169.93
0282	550-1480	LF	STM DR PIPE 48",H 1-10	511.000	103.75	53019.29
0287	550-1481	LF	STM DR PIPE 48",H 10-15	101.000	108.38	10946.38
0292	550-1486	LF	STM DR PIPE 48",H 35-40	243.000	147.78	35910.54
0297	550-1600	LF	STM DR PIPE 60",H 1-10	57.000	107.15	6107.55
0302	550-2180	LF	SIDE DR PIPE 18",H 1-10	1591.000	24.95	39703.21
0307	550-2240	LF	SIDE DR PIPE 24",H 1-10	143.000	35.06	5014.73
0312	550-2242	LF	SIDE DR PIPE 24",H 15-20	81.000	4642.00	376002.00
0317	668-5000	EA	JUNCTION BOX	3.000	1779.59	5338.77
0322	668-6000	EA	SPRING BOX	1.000	1432.03	1432.03
0327	576-1010	LF	SLOPE DRAIN PIPE, 10 IN	228.000	23.33	5319.24
0332	576-1015	LF	SLOPE DRAIN PIPE, 15 IN	241.000	17.00	4097.00
0337	641-1100	LF	GUARDRAIL, TP T	60.000	68.34	4100.66
0342	641-1200	LF	GUARDRAIL, TP W	2503.000	16.03	40138.33
0347	641-5001	EA	GUARDRAIL ANCHORAGE, TP 1	6.000	881.91	5291.48
0352	641-5012	EA	GUARDRAIL ANCHORAGE, TP 12	6.000	1972.88	11837.30
0357	550-3418	EA	SAFETY END SECTION 18",SD,4:1	16.000	527.08	8433.33
0362	550-3618	EA	SAFETY END SECTION 18",SD,6:1	17.000	447.51	7607.84
0367	550-3624	EA	SAFETY END SECTION 24",SD,6:1	1.000	676.32	676.32
0372	550-3324	EA	SAFETY END SECTION 24",STD,4:1	2.000	1272.89	2545.78
0377	550-3336	EA	SAFETY END SECTION 36",STD,4:1	1.000	1565.46	1565.46
0382	550-4118	EA	FLARED END SECT 18 IN, SIDE DR	72.000	362.05	26068.08
0387	550-4124	EA	FLARED END SECT 24 IN, SIDE DR	8.000	303.18	2425.47
0392	550-4218	EA	FLARED END SECT 18 IN, ST DR	18.000	535.79	9644.26

STATE HIGHWAY AGENCY

DATE : 03/02/2015
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JOB ESTIMATE REPORT

0397	550-4224	EA	FLARED END SECT 24 IN, ST DR	5.000	697.87	3489.39
0402	550-4236	EA	FLARED END SECT 36 IN, ST DR	2.000	1103.29	2206.58
0407	550-4242	EA	FLARED END SECT 42 IN, ST DR	4.000	1439.30	5757.20
0412	550-3648	EA	SAFETY END SECTION 48",SD,6:1	1.000	3758.52	3758.52
0417	577-1100	EA	METAL DR INLET - CMPLT ASSMBLY	5.000	2038.93	10194.65
0422	668-1100	EA	CATCH BASIN, GP 1	77.000	2196.01	169093.10
0427	668-1110	LF	CATCH BASIN, GP 1, ADDL DEPTH	39.000	175.04	6826.79
0432	611-3000	EA	RECONSTR CATCH BASIN, GROUP 1	3.000	1913.26	5739.79
0437	668-1200	EA	CATCH BASIN, GP 2	4.000	2629.33	10517.35
0442	668-1210	LF	CATCH BASIN, GP 2, ADDL DEPTH	15.000	266.85	4002.78
0447	668-2100	EA	DROP INLET, GP 1	39.000	1799.45	70178.58
0452	668-2200	EA	DROP INLET, GP 2	2.000	2218.15	4436.30
0457	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	26.000	212.56	5526.71
0462	668-2210	LF	DROP INLET, GP 2, ADDL DEPTH	11.000	221.71	2438.81
0467	611-3010	EA	RECONSTR DROP INLET, GROUP 1	1.000	1861.09	1861.10
0471	441-0303	EA	CONC SPILLWAY, TP 3	4.000	1682.64	6730.60
0472	668-4300	EA	STORM SEW MANHOLE, TP 1	6.000	1854.13	11124.78
0477	668-4311	LF	ST SEW MANHOLE,TP 1,A DEP,CL 1	4.000	218.61	874.47
0482	611-3030	EA	REC STORM SEW MANHOLE, TYPE 1	2.000	1634.97	3269.94
0487	611-3031	LF	REC STORM SEW MHOLE,TP1,ADDCL1	5.000	151.33	756.65
0492	668-8011	SF	SAFETY GRATE, TP 1	28.000	55.80	1562.59
0497	436-1000	LF	ASPH CONC CURB - 4 IN	936.000	10.44	9776.25
0502	441-5002	LF	CONC HEADER CURB, 6", TP 2	160.000	15.88	2542.24
0507	441-5057	LF	CONC DWL INT CURB, TP 7,DOWELS	13152.000	11.61	152694.72
0512	441-6216	LF	CONC CURB & GUTTER/ 8"X24"TP2	989.000	12.02	11895.44
0517	441-6222	LF	CONC CURB & GUTTER/ 8"X30"TP2	16364.000	12.66	207173.80
0522	153-1300	EA	FIELD ENGINEERS OFFICE TP 3	1.000	82464.30	82464.30
0527	643-1152	LF	CH LK FEN,ZC COAT, 6', 9 GA	404.000	26.63	10762.39
0532	643-8010	EA	GATE, CHAIN LINK ZC COAT - DOUBLE 6' X 6'	2.000	845.60	1691.20
0537	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	7100.000	1.55	11034.54
0542	634-1200	EA	RIGHT OF WAY MARKERS	176.000	97.59	17176.73
0547	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	90368.000	1.11	100785.62
0552	700-6910	AC	PERMANENT GRASSING	35.000	932.23	32628.23
0557	647-1000	LS	TRAF SIGNAL INSTALLATION NO - 1	1.000	68883.00	68883.00
0558	647-1000	LS	TRAF SIGNAL INSTALLATION NO - 2	1.000	56221.00	56221.00
0559	647-1000	LS	TRAF SIGNAL INSTALLATION NO - 3	1.000	57864.00	57864.00
0560	647-1000	LS	TRAF SIGNAL INSTALLATION NO - 4	1.000	52933.00	52933.00
0561	647-1000	LS	TRAF SIGNAL INSTALLATION NO - 5	1.000	54581.00	54581.00
0562	653-6004	SY	THERM TRAF STRIPING, WHITE	4255.000	3.26	13907.08
0567	653-6006	SY	THERM TRAF STRIPING, YELLOW	2435.000	3.12	7615.27
0572	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	19035.000	3.81	72622.71
0577	620-0100	LF	TEMP BARRIER, METHOD NO. 1	6667.000	23.82	158850.54
0582	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	1816.000	11.62	21108.77
0587	636-1029	SF	HWY SGN,TP2 MATL,REFL SH TP 3	48.000	17.70	849.72
0592	636-1033	SF	HWY SIGNS, TP1MAT,REFL SH TP 9	1911.000	14.59	27890.97
0597	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	40.000	33.74	1349.97
0602	636-2070	LF	GALV STEEL POSTS, TP 7	2682.000	4.65	12477.66
0607	636-2080	LF	GALV STEEL POSTS, TP 8	2440.000	8.70	21236.54
0612	636-2090	LF	GALV STEEL POSTS, TP 9	480.000	6.13	2943.38
0617	636-5100	EA	MILEPOST SIGNS	6.000	143.77	862.62
0622	636-3010	EA	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	120.000	467.07	56049.01
0627	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	58290.000	0.30	17645.55

JOB ESTIMATE REPORT

0632	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	34810.000	0.20	7004.47
0637	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	38530.000	0.34	13458.53
0642	654-1001	EA	RAISED PVMT MARKERS TP 1	550.000	3.25	1787.57
0647	654-1003	EA	RAISED PVMT MARKERS TP 3	1250.000	2.96	3708.05
0652	654-1010	EA	RAISED PVMT MARKERS TP 10	47.000	33.86	1591.58
0657	657-1085	LF	PRF PL SD PVT MKG,8",B/W,TP PB	624.000	6.01	3750.59
0662	657-3085	GLF	PRF PL SK PVMT MKG,8",B/W,TPPB	624.000	4.27	2667.54
0663	657-6085	LF	PRF PL SD PVMT MKG,8",B/Y,TPPB	673.000	5.71	3846.43
0664	207-0203	CY	FOUND BKFILL MATL, TP II	30.000	58.42	1752.71
0665	211-0200	CY	BR EXCAV, GRADE SEPARATION	231.000	26.83	6197.90
0666	441-0004	SY	CONC SLOPE PAV, 4 IN	1157.000	42.02	48624.75
0667	500-0100	SY	GROOVED CONCRETE	1960.000	4.57	8973.41
0668	500-1006	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1	1.000	502000.00	502000.00
0669	500-2100	LF	CONCRETE BARRIER	492.000	52.53	25849.33
0670	500-3002	CY	CL AA CONCRETE	475.000	717.61	340867.98
0671	507-9002	LF	PSC BEAMS,AASHTO TP II, BR NO- 1	537.000	105.11	56444.24
0672	507-9030	LF	PSC BEAMS,AASHTO,BULB TEE, 54"	2446.000	173.93	425443.86
0673	511-1000	LB	BAR REINF STEEL	81548.000	0.79	64630.87
0674	511-3000	LS	SUPERSTR REINF STEEL, BR NO - 1	1.000	148949.04	148949.04
0675	520-1316	LF	PIL-IN-PL,METAL SHELL,16" OD	1165.000	60.54	70529.10
0676	520-1318	LF	PIL-IN-PL,METAL SHELL,18" OD	2045.000	86.20	176279.00
0677	520-4316	EA	LOAD TEST,METAL SHELL,16" OD	1.000	1.00	1.00
0678	520-4318	EA	LOAD TEST,METAL SHELL,18" OD	1.000	1.00	1.00
0679	643-1152	LF	CH LK FEN,ZC COAT, 6', 9 GA	488.000	24.55	11982.05
0680	682-9950	LF	DIRECTIONAL BORE - 3 INCH	14610.000	10.14	148145.40
0682	682-9950	LF	DIRECTIONAL BORE - 5 INCH	609.000	10.14	6175.26
0687	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	220.000	33.74	7424.85
0692	639-4004	EA	STRAIN POLE, TP IV	7.000	6603.71	46225.99
0697	639-4014	EA	STR POLE,TP 4,INCL LUMIN. ARM	2.000	7787.11	15574.22
0702	446-1100	LF	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	36321.000	2.14	77875.13
0707	500-3101	CY	CLASS A CONCRETE	867.000	909.01	788114.31
0710	500-3101	CY	CLASS A CONCRETE CLASS A CONC. COLLAR	10.000	900.57	9005.71
0711	500-3800	CY	CL A CONC, INCL REINF STEEL	49.000	949.19	46510.62
0712	500-3200	CY	CL B CONC	68.000	420.64	28603.77
0717	500-9999	CY	CL B CONC,BASE OR PVMT WIDEN	350.000	174.13	60947.79
0722	511-1000	LB	BAR REINF STEEL	85036.000	0.78	67085.75
0727	603-2048	SY	STN DUMPED RIP RAP, TP 1, 48"	278.000	66.55	18500.90
0732	603-2180	SY	STN DUMPED RIP RAP, TP 3, 12"	712.000	37.54	26733.40
0737	603-2181	SY	STN DUMPED RIP RAP, TP 3, 18"	492.000	49.57	24388.52
0742	603-7000	SY	PLASTIC FILTER FABRIC	3240.000	2.95	9560.66
0747	639-2002	LF	STEEL WIRE STRAND CABLE, 3/8"	1420.000	3.62	5151.50
0752	639-3003	EA	STEEL STRAIN POLE, TP III	22.000	7863.84	173004.48
0757	647-2160	EA	PULL BOX, PB-6	16.000	1131.58	18105.34
0762	647-2170	EA	PULL BOX, PB-7	6.000	1546.62	9279.78
0767	653-0120	EA	THERM PVMT MARK, ARROW, TP 2	151.000	69.49	10494.37
0772	653-0160	EA	THERM PVMT MARK, ARROW, TP 6	18.000	116.96	2105.28
0777	653-0170	EA	THERM PVMT MARK, ARROW, TP 7	6.000	95.69	574.17
0782	653-0210	EA	THERM PVMT MARK, WORD , TP 1	12.000	119.08	1429.05
0787	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	1500.000	5.67	8515.41
0792	653-1804	LF	THERM SOLID TRAF STRIPE, 8",WH	14810.000	1.90	28171.43
0797	653-3502	GLF	THERMO SKIP TRAF ST, 5 IN, YEL	10820.000	0.20	2268.09
0802	232-0001	LS	RAILROAD CONSTRUCTION	1.000	50000.00	50000.00
0807	935-1113	LF	OUT PLNT FBR OPT CBL,LOOSE TB,SM,24 FBR	16445.000	2.02	33218.90

STATE HIGHWAY AGENCY

DATE : 03/02/2015
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JOB ESTIMATE REPORT

0812	935-1511	LF	OUT PLNT FBR OPT CBL,DROP,SM,6 FBR	630.000	2.44	1537.20
0817	935-3103	EA	FIBER OPTIC CLOSURE,UNDRGRD,24 FBR	6.000	651.10	3906.60
0822	935-4010	EA	FIBER OPTIC SPLICE, FUSION	24.000	40.64	975.41
0827	150-1000	LS	TRAFFIC CONTROL - STP00-0079-01(042)	1.000	500000.00	500000.00
0832	935-5050	EA	FIBER OPTIC PATCH CORD, SM	12.000	64.45	773.40
0842	935-8000	LS	TESTING	1.000	3451.54	3451.54
0845	687-1000	LS	TRAFFIC SIGNAL TIMING - STP00-0079-01(042)	1.000	15082.25	15082.25
0846	939-2305	EA	FIELD SWITCH, TYPE C	6.000	2304.46	13826.76
0847	999-3110	EA	DETENTION POND	2.000	362821.40	725642.80
0852	700-9300	SY	SOD BERMUDA	458.000	6.41	2935.78
0856	700-9400	AC	NATIVE REST & RIPARIAN SEEDING	1.000	1859.20	1859.20
0857	702-0030	EA	ACER RUBRUM - 2 INCH CALIPER	37.000	474.33	17550.21
0862	702-0675	EA	MYRICA CERIFERA - 7 GALLON	237.000	84.12	19936.44

ITEM TOTAL 20932633.50
INFLATED ITEM TOTAL 20932633.50

TOTALS FOR JOB 431830-RC

ESTIMATED COST: 20932633.46
CONTINGENCY PERCENT (0.0): 0.00
ESTIMATED TOTAL: 20932633.46

NOTE: The item totals include all alternate items. The estimated totals include only the low cost alternate items.

Dilligard, Stevonn

From: Bowman, Glenn <gbowman@dot.ga.gov>
Sent: Wednesday, September 17, 2014 11:32 AM
To: Dilligard, Stevonn
Cc: McMurry, Russell; Carpenter, Joe; Shelby, Albert
Subject: 431830, Coffee County

Follow Up Flag: Follow up
Flag Status: Flagged

Stevonn,

The Chief and I have looked more closely at the proposed design for SR 135/Bowens Mill Road and have come to the conclusion that a flush median would be better suited for this particular roadway. We agree that a short raised median should remain to protect the WB to SB US 441 double left-turn movement, but the mainline should quickly transition to a flush median from there to the east.

To minimize the amount of change we want to hold the outside edges of pavement, C&G, etc. and simply pave a flush median. So no right of way changes but you will have to remove a few median drainage structures, get new S&M plans, etc. which should be a relatively simple redesign. One alternative to consider would be to stripe in a 4' bike lane on each side and have those transition to the bike friendly shoulders (6'-6"?) in the rural section.

We understand this change will take additional PE funds and potentially delay the prepare for shelf date, but please take the necessary steps to start the process.

Please let me know if you have any questions concerning this new direction.

Glenn Bowman, P.E.
Director of Engineering
Georgia Department of Transportation
600 West Peachtree Street, NW - 25th Floor
Atlanta, Georgia 30308
Office: 404-631-1519 Mobile: 404-326-5871

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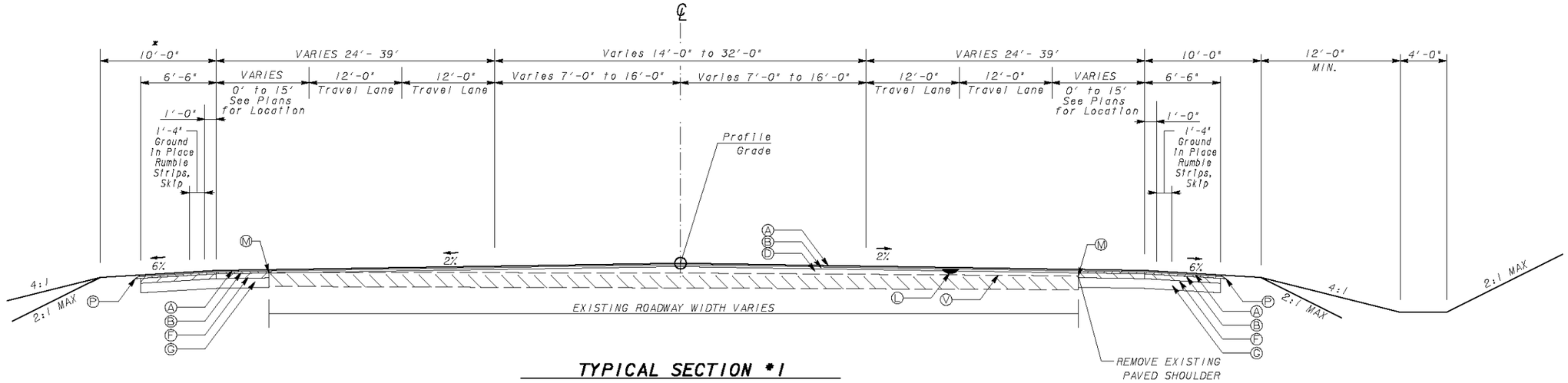


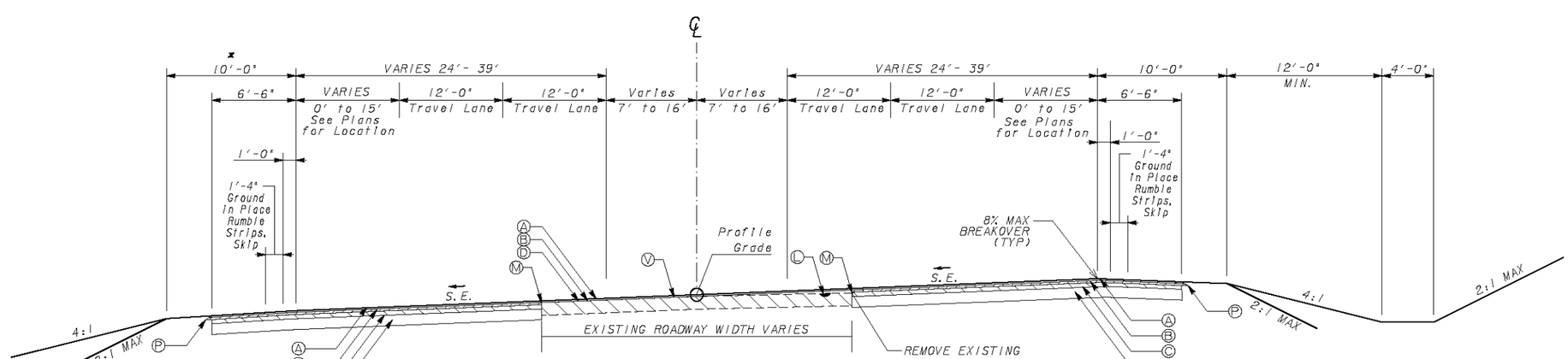
TYPICAL SECTION #1

TANGENT SECTION
SR 135 STA 100+23.34 to 104+19.64 RT
SR 135 STA 100+23.34 to 106+14.45 LT
SR 135 STA 157+66.80 to 201+66.36
SR 135 STA 232+16.55 to 237+82.52
SR 135 STA 242+29.96 to 245+46.67

* SHOULDER WIDTH OF 28'-8"
STATIONS 232+00.00 TO 233+72.00

(A) - RECYCLED ASPHALTIC CONCRETE (2.5 mm SUPERPAVE, GP 2 ONLY, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (165 LBS/SY)
(B) - RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (220 LBS/SY)
(D) - RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (330 LBS/SY)
(E) - RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (440 LBS/SY)
(F) - RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (660 LBS/SY)
(G) - GRADED AGGREGATE BASE (10.0" THICK)
(H) - GRADED AGGREGATE BASE (6.0" THICK)
(J) - 6" CONC MEDIAN WITH TYPE 7 CURB, DOWELLED
(K) - 8"x30" CONC. CURB & GUTTER TYPE 2
(L) - RECYCLED ASPH CONC LEVELING, INCLUDING BITUMINOUS MATERIAL & HYDRATED LIME, AS REQUIRED
(M) - PAVEMENT REINFORCEMENT FABRIC, 18" WIDTH
(P) - SAFETY EDGE TREATMENT, SEE GDOT STD DETAIL P-7
(S) - CONCRETE SIDEWALK (4.0" THICK)
(V) - VARIABLE DEPTH MILLING (1½" TYP.)

NOTE:
1. LOCATION OF EXISTING PAVEMENT VARIES WITH RESPECT TO THE PROPOSED CENTERLINE.
2. ALL EXISTING ROADWAYS TO BE OVERLAID SHALL BE MILLED 1.5 INCHES (TYP.), EXCEPT WITHIN 200 FEET OF INTERSECTION FOR SR 135 AND SR 31/US 441, WHICH SHALL BE MILLED 2 INCHES.
3. FOR LOCATIONS OF MEDIAN OPENINGS, SEE ROADWAY PLANS.
4. SEE ROADWAY PLANS FOR LOCATION OF CURB AND GUTTER.
5. SEE DETAILS ON DRAWING 5-011 FOR RIGHT TURN LANE CONFIGURATION.
6. SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.
7. FOR METHOD OF SUPERELEVATION, SEE CONSTRUCTION PLAN AND LAYOUT SHEETS - CURVE DATA. LOCATIONS OF NORMAL CROWN AND FULL S.E. NOTED ON CONSTRUCTION CENTERLINE.
8. URBAN SHOULDER MAY BE GRADED AWAY FROM ROADWAY TO FACILITATE THE SLOPE TIE TO EXISTING GROUND.
9. SHOULDER BREAKOVER AT THE HIGH SIDE OF SUPERELEVATED ROADWAY NOT TO EXCEED 8%.



TYPICAL SECTION #2

SUPERELEVATED

Columbia Engineering
LAND PLANNERS · CIVIL ENGINEERS · LANDSCAPE ARCHITECTS · SURVEYORS
2862 Buford Highway, Suite 200
Duluth, GA 30096-3467
Phone: (770) 925-0357
Fax: (770) 925-0565

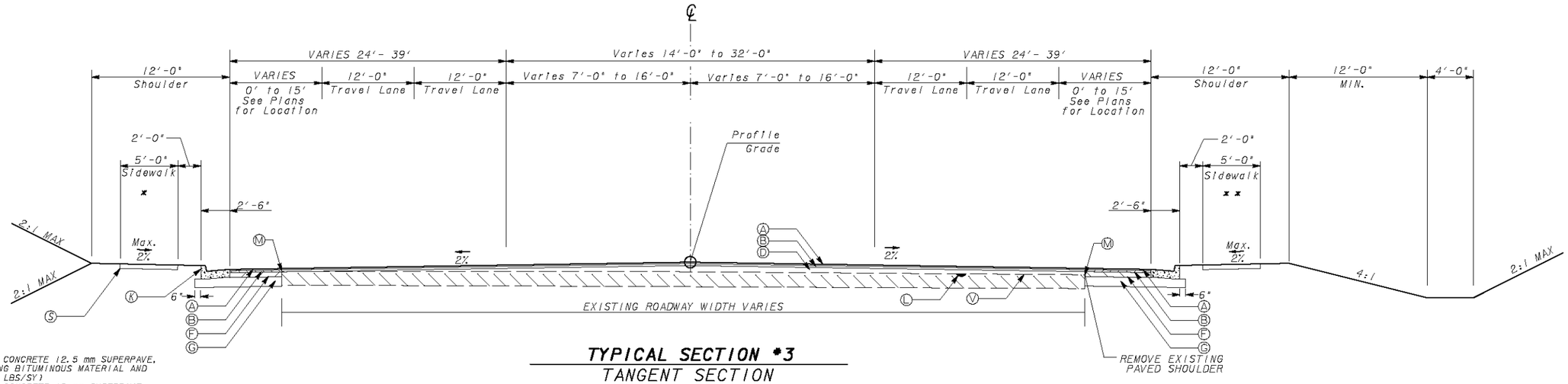
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

TYPICAL SECTIONS

SR135 FM SR31/US441 TO SR32
COFFEE COUNTY

DRAWING No. 5-001



Ⓐ - RECYCLED ASPHALTIC CONCRETE 12.5 mm SUPERPAVE, GP 2 ONLY, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (165 LBS/SY)
Ⓑ - RECYCLED ASPHALTIC CONCRETE 19 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (220 LBS/SY)
Ⓓ - RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (330 LBS/SY)
Ⓔ - RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (440 LBS/SY)
Ⓕ - RECYCLED ASPHALTIC CONCRETE 25 mm SUPERPAVE, GP 1 OR 2, INCLUDING BITUMINOUS MATERIAL AND HYDRATED LIME (660 LBS/SY)
Ⓖ - GRADED AGGREGATE BASE (10.0" THICK)
Ⓗ - GRADED AGGREGATE BASE (6.0" THICK)
Ⓙ - 6" CONC MEDIAN WITH TYPE 7 CURB, DOWELLED
Ⓚ - 8"x30" CONC. CURB & GUTTER TYPE 2
Ⓛ - RECYCLED ASPH CONC LEVELING, INCLUDING BITUMINOUS MATERIAL & HYDRATED LIME, AS REQUIRED
Ⓜ - PAVEMENT REINFORCEMENT FABRIC, 18" WIDTH
Ⓟ - SAFETY EDGE TREATMENT, SEE GDOT STD DETAIL P-7
Ⓢ - CONCRETE SIDEWALK (4.0" THICK)
Ⓥ - VARIABLE DEPTH MILLING (1½" TYP.)

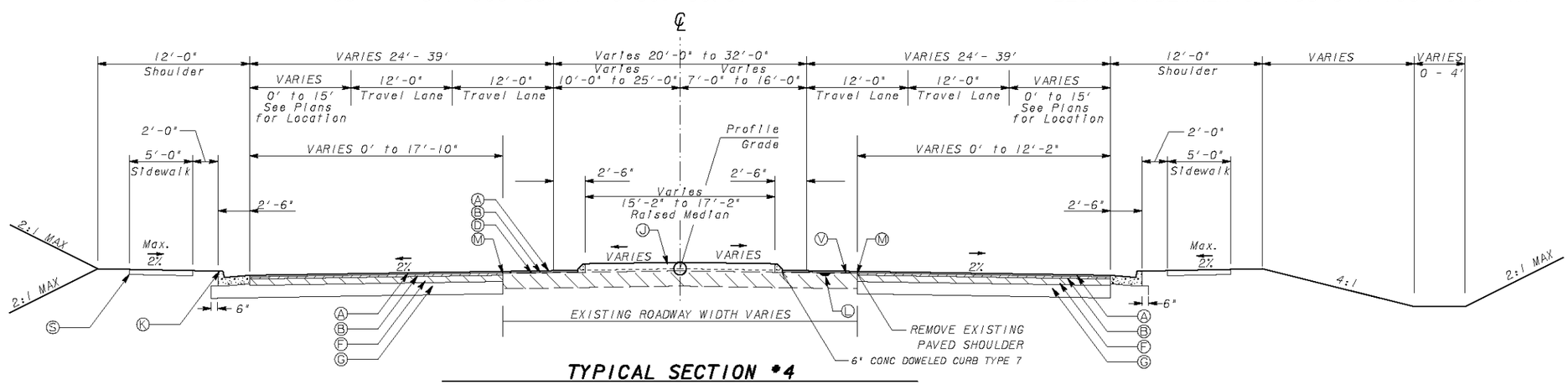
NOTE:
1. LOCATION OF EXISTING PAVEMENT VARIES WITH RESPECT TO THE PROPOSED CENTERLINE.
2. ALL EXISTING ROADWAYS TO BE OVERLAID SHALL BE MILLED 1.5 INCHES (TYP), EXCEPT WITHIN 200 FEET OF INTERSECTION FOR SR 135 AND SR 31/US 441, WHICH SHALL BE MILLED 2 INCHES.
3. FOR LOCATIONS OF MEDIAN OPENINGS, SEE ROADWAY PLANS.
4. SEE ROADWAY PLANS FOR LOCATION OF CURB AND GUTTER.
5. SEE DETAILS ON DRAWING 5-011 FOR RIGHT TURN LANE CONFIGURATION.
6. SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.
7. FOR METHOD OF SUPERELEVATION, SEE CONSTRUCTION PLAN AND LAYOUT SHEETS - CURVE DATA. LOCATIONS OF NORMAL CROWN AND FULL S.E. NOTED ON CONSTRUCTION CENTERLINE.
8. URBAN SHOULDER MAY BE GRADED AWAY FROM ROADWAY TO FACILITATE THE SLOPE TIE TO EXISTING GROUND.
9. SHOULDER BREAKOVER AT THE HIGH SIDE OF SUPERELEVATED ROADWAY NOT TO EXCEED 8%.

TYPICAL SECTION #3

TANGENT SECTION

SR 135 STA 104+19.64 to 108+24.75 RT
SR 135 STA 106+14.45 to 108+24.75 LT
SR 135 STA 111+86.00 to 157+66.80
US 441 STA 292+37.07 to 294+07.06
US 441 STA 303+55.71 to 307+66.01

* BEGIN SIDEWALK SR 135 STA 106+18.45 LT
** BEGIN SIDEWALK SR 135 STA 106+19.64 RT



TYPICAL SECTION #4

TANGENT SECTION

US 441 STA 294+07.06 to 295+75.65

Columbia Engineering
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2862 Buford Highway, Suite 200
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Fax: (770) 925-0565

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY

TYPICAL SECTIONS

SR135 FM SR31/US441 TO SR32
COFFEE COUNTY

DRAWING No. 5-002

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