

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 0008043 **OFFICE** Design Policy & Support
CSNHS-0008-00(043)
Pickens County
GDOT District 6 - Cartersville **DATE** 09/10/2015
SR 515 @ CR 250/Antioch Church Road -
Intersection Improvements

FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

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

Attachment

DISTRIBUTION:

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
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
Andy Casey, State Roadway Design Engineer
Attn: David Ray, District Design Engineer
Ed David Adams, State Safety Program Manager
DeWayne Comer, District Engineer
David Acree, District Preconstruction Engineer
Jennifer Deems, Assistant District Utilities Engineer
Kevin Bailey, Project Manager
BOARD MEMBER - 14th Congressional District

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA LIMITED SCOPE PROJECT CONCEPT REPORT

Project Type: Intersection P.I. Number: 0008043
 GDOT District: 6 County: Pickens
 Federal Route Number: N/A State Route Number: SR 515
 Project Number: CSNHS-0008-00(043)

Intersection Improvements of SR 515 at CR 250/Antioch Church Road

Submitted for approval:

<u><i>David Boy</i></u> <u>DB DESIGN</u>	<u>5/27/2015</u>
GDOT Concept/Design Phase Office Head & Office	DATE
<u><i>ASAP Albert V Shelby</i></u>	<u>6/4/15</u>
State Program Delivery Engineer	DATE
<u><i>Z. M. B.</i></u>	<u>6/2/2015</u>
GDOT Project Manager	DATE

Recommendation for approval:

<u><i>HIRAL PATEL*/EKP</i></u>	<u>8/11/2015</u>
State Environmental Administrator	DATE
<u><i>ANDREW HEATH*/EKP</i></u>	<u>6/9/2015</u>
State Traffic Engineer	DATE

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

<u><i>CINDY VAN DYKE*/EKP</i></u>	<u>6/11/2015</u>
State Transportation Planning Administrator	Date

Approval:

Concur: <u><i>Al Bon</i></u>	<u>9/2/2015</u>
GDOT Director of Engineering	Date

Approve: <u><i>Margaret B. Pinsky</i></u>	<u>9/3/15</u>
GDOT Chief Engineer	Date

** - RECOMMENDATION ON FILE*

PROJECT LOCATION: 515 @ CR 250/Antioch Church Road



County: Pickens

PLANNING & BACKGROUND DATA

Project Justification Statement: This project proposes the installation of a Restricted Crossing U-Turn intersection (RCUT), as known as a J-Turn intersection or Super Street, at the intersection of SR 515 and Antioch Church Road. The location of this project was identified by the Office of Planning, in the 2005 Pickens County Transportation Study, as having the fifth highest collision rate in the county. Subsequently, the proposed project was submitted by District Six Traffic Operations to the GDOT Project Nomination Review Committee (PNRC) for inclusion in the Construction Work Program in 2005. This project located in Northern Pickens County along the 4 lane section of SR 515 is functionally classified as a rural principal arterial. SR 515 is not listed as a designated bike route in the Statewide Bicycle Plan.

Based upon existing traffic information obtained from the Office of Planning, the existing 2012 Average Annual Daily Traffic (AADT) on SR 515 near the project location was 15,900, of which 9% represent truck traffic. The traffic volumes (2038) on this route are projected to increase to approximately 22,750 AADT. Analysis of the last 3 years of crash data (2011-2013), using the Georgia Electronic Accident Reporting System (GEARS), indicated the intersection experienced right angle crashes, resulting in 19 injuries, in greater proportion to all other crash types. Of the eight right angle crashes, five were correctable through the installation of the RCUT intersection.

The proposed improvement is needed to reduce the crash frequency and severity along the SR 515 corridor at CR 250/Antioch Church Road. The RCUT intersection reduces the conflict points from 48 (conventional intersection) down to 24, while further reducing the crossing conflict points from 24 to 4. The percentage of fatal and/or injury crashes decrease when utilizing the RCUT intersection, along with the percentage of total crashes. By rerouting minor street left-turn and through movements to a median U-turn crossover, the RCUT intersection provides operational and safety advantages over conventional intersection designs. The operational advantages of having RCUTS are the following: Up to a 30 percent increase in throughput and up to a 40 percent reduction in network intersection travel time.

Existing conditions: SR 515 at this location is classified as a rural principle arterial. The existing typical section includes four 12-ft lanes with 4-ft paved shoulders and 40-ft median.

Other projects in the area: 0008314 – SR 136 from SR 136 CONN to SR 515 (MLD: 1/15/2018)

- *Widening – Reconstruction/Rehabilitation*

Description of the proposed project:

MPO: Not Urban/Not in MPO

TIP #: N/A

TIA Regional Commission: Northwest Georgia RC

- RC Project ID: N/A

Congressional District(s): 14

Federal Oversight: Exempt State Funded Other

County: Pickens

Projected Traffic: ADT

Current Year (2012): 8,050 Open Year (2018): 9,050 Design Year (2038): 11,500

Traffic Projections Performed by: **GDOT Office of Planning**

Functional Classification (Mainline): Rural Principal Arterial

Complete Streets - Bicycle, Pedestrian, and/or Transit Warrants:

Warrants met: None Bicycle Pedestrian Transit

Pavement Evaluation and Recommendations

Preliminary Pavement Evaluation Summary Report Required? No Yes

Preliminary Pavement Type Selection Report Required? No Yes

Feasible Pavement Alternatives: HMA PCC HMA & PCC

DESIGN AND STRUCTURAL

Description of Proposed Project:

Major Structures: N/A

Mainline Design Features: SR 515 – Rural Principal Arterial

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	4	4	4
- Lane Width(s)	12'	12'	12'
- Median Width & Type	40'	40'	40'
- Shoulder Width	8' grassed & 4' paved	10' grassed & 6.5' paved	8' grassed & 4' paved
- Auxiliary Lanes	12'	-	12'
Posted Speed	65 mph		65 mph
Design Speed	65 mph	65 mph	65 mph
Min Horizontal Curve Radius	1909	1660	1660
Maximum Superelevation Rate	7%	6% to 8%	6%
Maximum Grade	4%	4%	4%
Access Control	By Permit	By Permit	By Permit
Design Vehicle	N/A	WB-67	WB-67

*According to current GDOT design policy if applicable

DESIGN AND STRUCTURAL

Description of Proposed Project:

Major Structures: N/A

Mainline Design Features: CR 250 – Urban Collector

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2	2	-
- Lane Width(s)	12'	12'	-
- Median Width & Type	-	-	-
- Shoulder Width	10' grassed	-	-
- Auxiliary Lanes	-	-	-
Posted Speed	45 mph		-
Design Speed	45 mph	45 mph	-
Min Horizontal Curve Radius	n/a	643	-
Maximum Superelevation Rate	n/a	6%	-
Maximum Grade	4%	4%	-

County: Pickens

Access Control	By Permit	By Permit	-
Design Vehicle	N/A	WB-67	-

*According to current GDOT design policy if applicable

Major Interchanges/Intersections: SR 515 @ CR 250 Antioch Church Road

Lighting required: No Yes

Transportation Management Plan [TMP] Required: No Yes
 If Yes: Project classified as: Non-Significant Significant
 TMP Components Anticipated: TTC TO PI

Will Context Sensitive Solutions procedures be utilized? No Yes

Design Exceptions to FHWA/AASHTO controlling criteria anticipated: None

Design Variances to GDOT Standard Criteria anticipated: None

UTILITY AND PROPERTY

Temporary State Route Needed: No Yes Undetermined

Railroad Involvement: N/A

Utility Involvements:

- Amicalola EMC – Electrical Distribution
- City of Jasper – Water
- Ellijay Telephone – Telecommunications
- Georgia Power – Electrical Distribution

SUE Required: No Yes

Public Interest Determination Policy and Procedure recommended? No Yes

Right-of-Way: Existing width: 400ft Proposed width: 400ft
 Required Right-of-Way anticipated: No Yes Undetermined
 Easements anticipated: None Temporary Permanent Utility Other

Anticipated number of impacted parcels:	N/A
Displacements anticipated:	Total: 0
	Businesses: 0
	Residences: 0
	Other: 0

ENVIRONMENTAL AND PERMITS

Anticipated Environmental Document:

GEPA: **NEPA:** CE PCE

MS4 Compliance – Is the project located in an MS4 area? No Yes

Environmental Permits, Variances, Commitments, and Coordination anticipated:

At a minimum, Ecology and History resources should be fully identified/evaluated to the extent that agency concurrence is obtained.

Air Quality:

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

NEPA/GEPA Comments & Information: PIOH will be required for this project for this being a non-standard intersection.

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Project Meetings: PTIP/Scoping Meeting – April 21, 2014

ICTM Meeting – November 14, 2014

Concept Meeting – May 14, 2015

Project Activity	Party Responsible for Performing Task(s)
Concept Development	District 6 Design
Design	District 6 Design
Right-of-Way Acquisition	N/A
Utility Coordination (Pre Let)	GDOT
Utility Relocation (Construction)	Utility Owners
Letting to Contract	GDOT
Construction Supervision	GDOT
Providing Material Pits	GDOT Contractor
Providing Detours	N/A
Environmental Studies, Documents, & Permits	GDOT
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Other coordination to date: N/A

Project Cost Estimate and Funding Responsibilities:

	Breakdown of PE	ROW	Reimbursable Utility	CST*	Environmental Mitigation	Total Cost
Funded By	GDOT		GDOT	GDOT	TBD	
\$ Amount	\$121,570.38	N/A	\$21,000.00	\$565,608.14	TBD	\$708,178.14
Date of Estimate	2/14/2014		5/22/2015	5/27/2015		

*CST Cost includes: Construction, Engineering and Inspection, and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION

Preferred Alternative: <i>Restricted Crossing U-Turn Intersection</i>			
Estimated Property Impacts:	0	Estimated Total Cost:	\$708,178.14
Estimated ROW Cost:	\$0.00	Estimated CST Time:	12 months
Rationale: The Preferred Alternative was selected due to no impacts on R/W and cost less to build.			

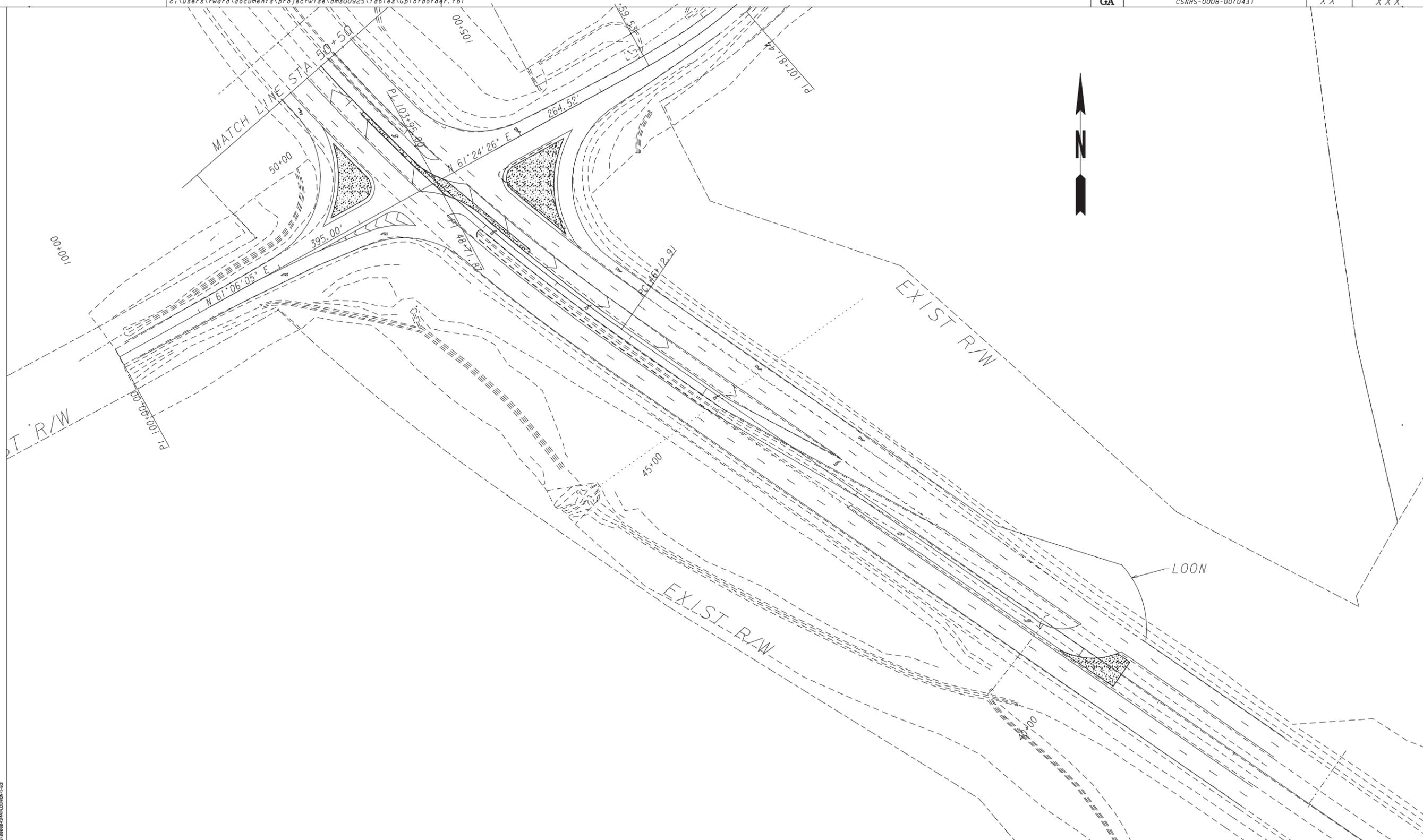
No-Build Alternative: <i>This alternative would have left things exactly as they are.</i>			
Estimated Property Impacts:	0	Estimated Total Cost:	\$0.00
Estimated ROW Cost:	\$0.00	Estimated CST Time:	0 months
Rationale: Due to the one of the highest collision rate in the county, intersection improvements is recommended.			

Alternative 1: <i>Right and Left Turning Lanes at intersection of SR 515 at CR 250/ Antioch Church Road</i>			
Estimated Property Impacts:	4	Estimated Total Cost:	\$1,027,000.00
Estimated ROW Cost:	\$212,000.00	Estimated CST Time:	18 months
Rationale: Alternative 1 was not selected due to the additional cost of construction and purchasing of R/W.			

Comments/Additional Information: N/A

LIST OF ATTACHMENTS/SUPPORTING DATA

1. Concept Layout
2. Typical sections
3. Cost Estimates
4. Crash summaries
5. Traffic diagrams or projections
6. Meeting Minutes
7. Risk Assessment

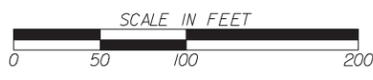


c:\users\rward\documents\projectwise\dms40796\0008043CP01.dgn(0N+1, 13, 42, 43, 45-50, 57-63)
 c:\users\rward\documents\projectwise\dms00925\tables\Gplotborder.tbl
 7/16/2015 9:01:13 AM rward

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

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS ---|---|---

GEORGIA
DEPARTMENT
OF
TRANSPORTATION



REVISION DATES	

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: CARTERSVILLE - DISTRICT SIX
MAINLINE PLAN
SR 515 @ CR 250/ANTIOCH CHURCH RD.

DRAWING No.
13-001



PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	-C- F-
EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF SLOPES	[Hatched Box]
EASEMENT FOR CONSTR OF DRIVES	[Hatched Box]

BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESSooo
 REQ'D R/W & LIMIT OF ACCESS ---|---|---

GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

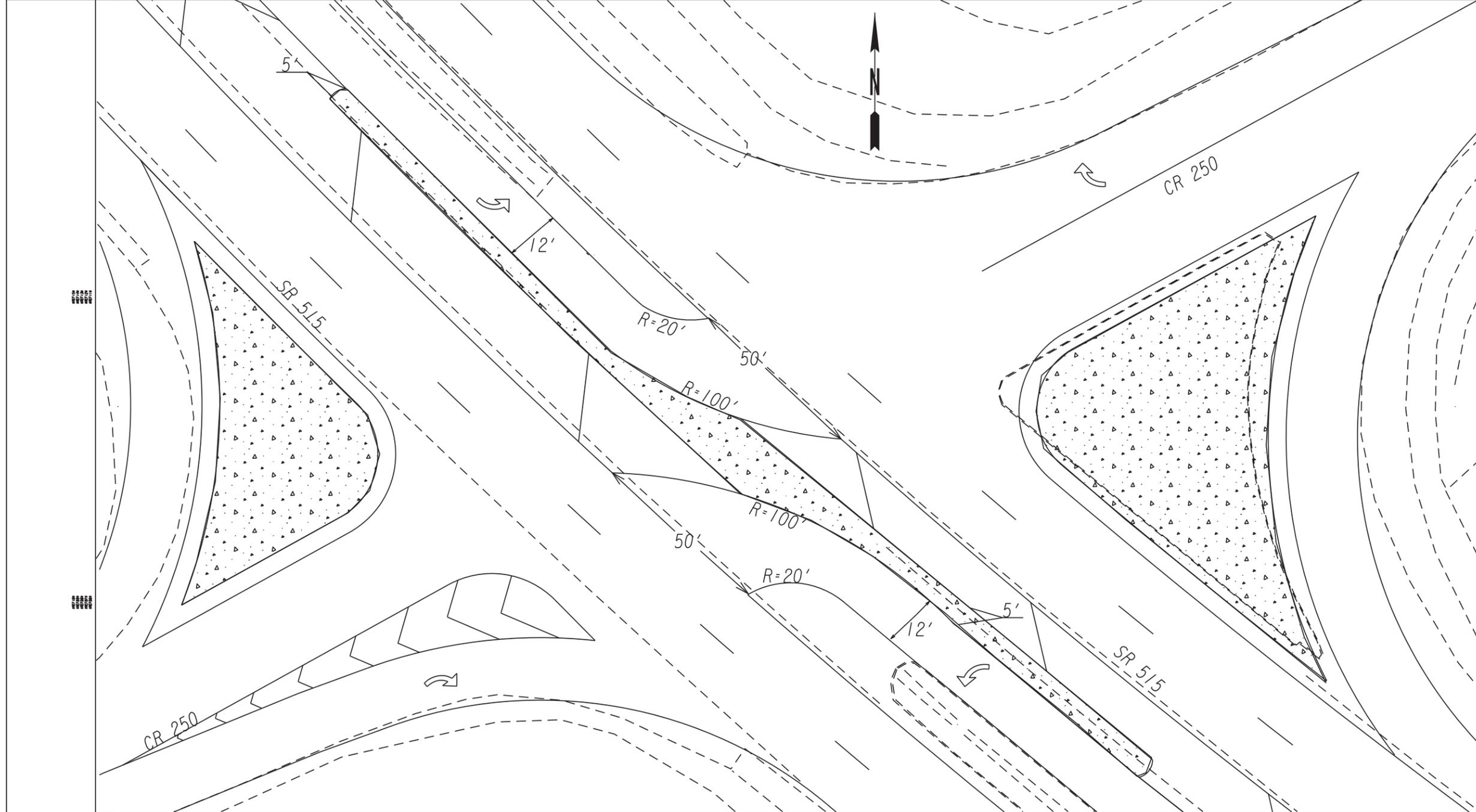


REVISION DATES	

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: CARTERSVILLE - DISTRICT SIX
 MAINLINE PLAN
 SR 515 @ CR 250/ANTIOCH CHURCH RD.

DRAWING No.
13-002

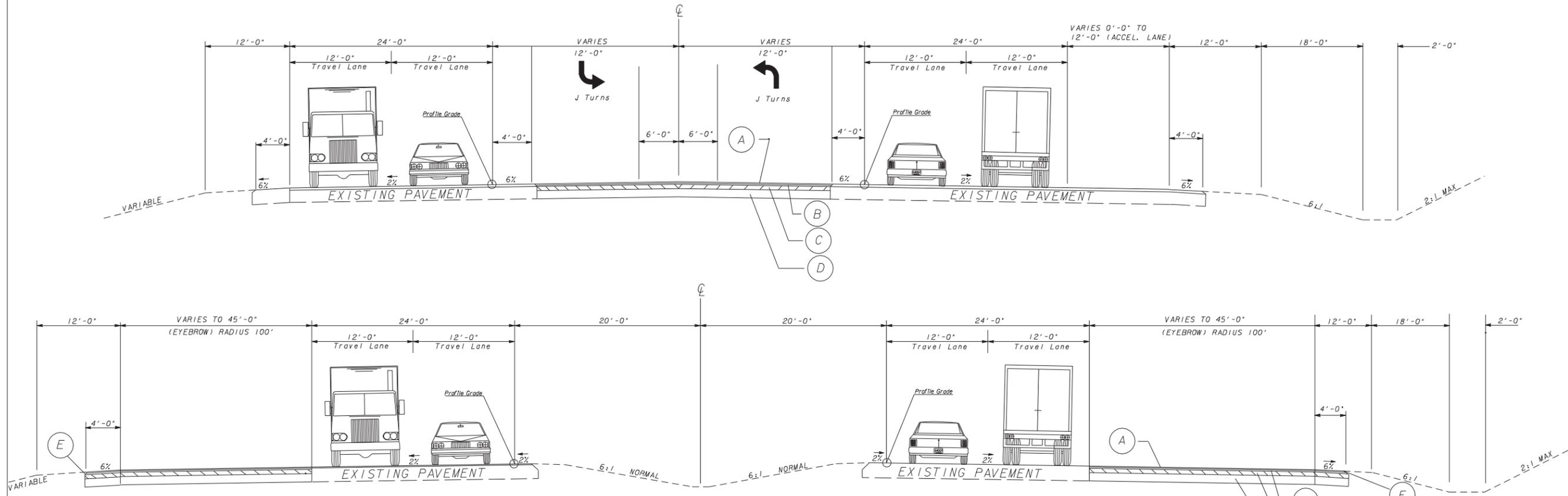
DATE##	TIME##	SPRF#	#DGR#	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
#USER#		#PENTABLE##		GA	CSHIS-0008-0010431		



1/5/2009 <small>CPLM</small>	J Turns Intersection	GEORGIA DEPARTMENT OF TRANSPORTATION	SCALE IN FEET 	REVISION DATES <table border="1"> <tr><td> </td><td> </td></tr> </table>													STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: CARTERSVILLE - DISTRICT SIX DETAILS PLAN	DRAWING No. XX-XX

TYPICAL SECTION

SR 515



- (A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME (165 LBS/ SQ YDS)
- (B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (220 LBS/ SQ YDS)
- (C) RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME (440 LBS/ SQ YDS)
- (D) GR AGGR BASE CRS, INCL MATL (10 INCH)
- (E) SAFETY EDGE, GDOT CONSTRUCTION DETAIL P-7
- (F) MILL ASPH CONC PVMT, VARIABLE DEPTH

GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

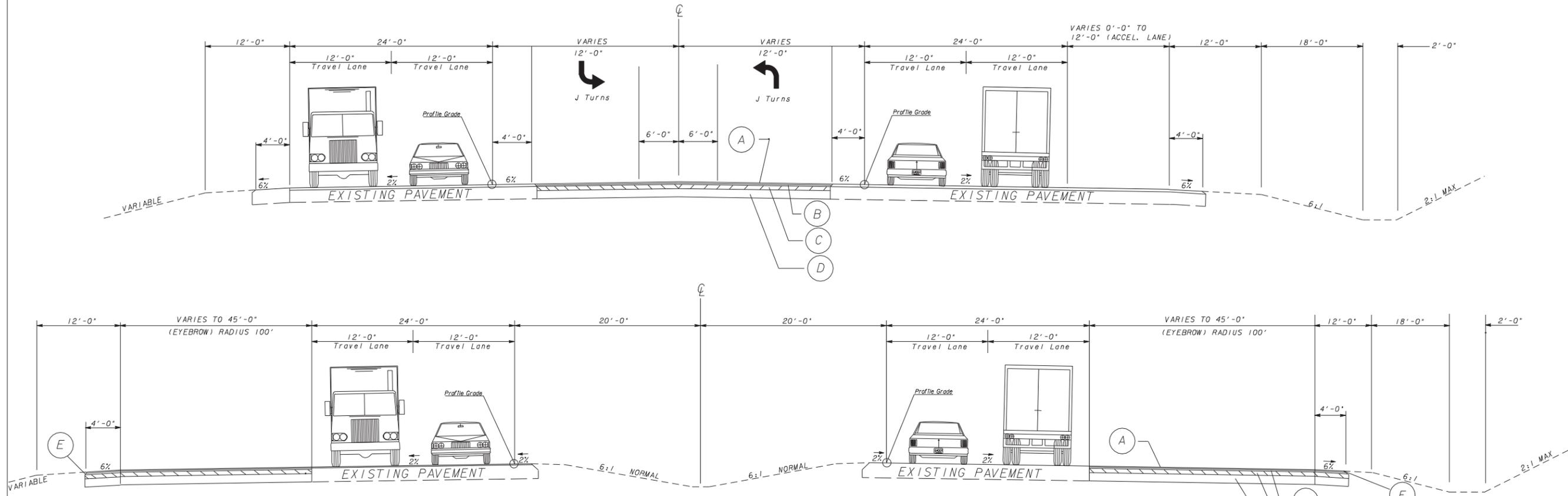
REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT SIX - ROAD DESIGN
 TYPICAL SECTIONS
 SR 515 @ CR 250/ANTIOCH CHURCH RD

DRAWING No.
05-001

TYPICAL SECTION

SR 515



- (A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY ,INCL BITUM MATL & H LIME (165 LBS/ SQ YDS)
- (B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2 ,INCL BITUM MATL & H LIME (220 LBS/ SQ YDS)
- (C) RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2 ,INCL BITUM MATL & H LIME (440 LBS/ SQ YDS)
- (D) GR AGGR BASE CRS, INCL MATL (10 INCH)
- (E) SAFETY EDGE, GDOT CONSTRUCTION DETAIL P-7
- (F) MILL ASPH CONC PVMT, VARIABLE DEPTH

GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

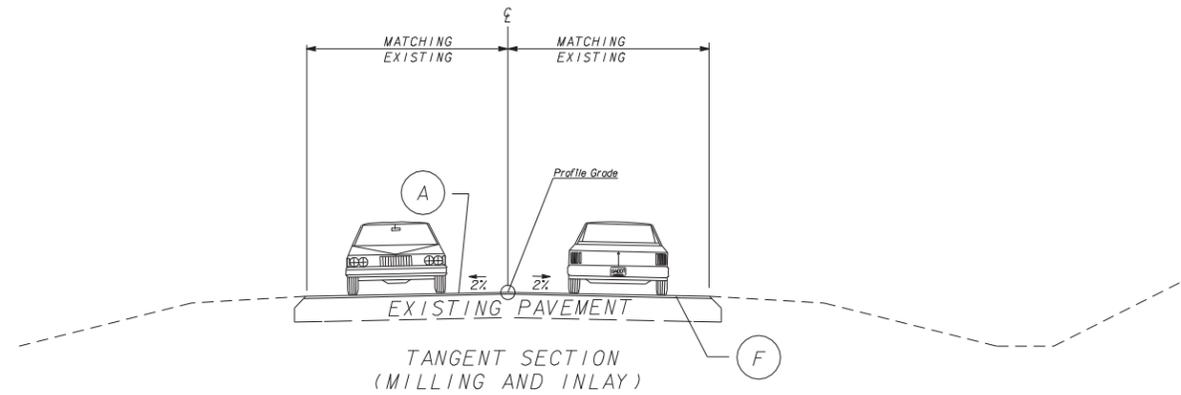
REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT SIX - ROAD DESIGN
 TYPICAL SECTIONS
 SR 515 @ CR 250/ANTIOCH CHURCH RD

DRAWING No.
05-001

TYPICAL SECTION

CR 250 - ANTIOCH CHURCH ROAD



1/5/2009
GPLW
14/08/15-15.08.02

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES	

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT SIX - ROAD DESIGN
TYPICAL SECTIONS
SR 515 @ CR 250/ANTIOCH CHURCH RD

DRAWING No.
05-002

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. CSNHS-0008-00(043)/PI: 0008043 **OFFICE** Cartersville

PROJECT DESCRIPTION

SR 515 @ CR 250/Antioch Church Road

DATE May 27, 2015

From: C. Dewayne Comer, P.E., District Engineer

To: Lisa L. Myers, State Project Review Engineer

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Kevin Matthew Bailey **MGMT LET DATE** 1/15/2018
MGMT ROW DATE 1/15/2017

PROGRAMMED COSTS (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION	\$	665,729.06	DATE	1/16/2015
RIGHT OF WAY	\$	N/A	DATE	N/A
UTILITIES	\$	20,000.00	DATE	1/16/2015

REVISED COST ESTIMATES

CONSTRUCTION*	\$	565,608.14
RIGHT OF WAY	\$	N/A
UTILITIES	\$	21,000.00

*Cost Contains 5 % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

Cost estimate for Concept Report, including Utility cost estimates.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$	493,010.41	Base Estimate From CES	
B. ENGINEERING AND INSPECTION (E & I):	\$	24,650.52	Base Estimate (A) x	5 %
C. CONTINGENCY:	\$	25,883.05	Base Estimate (A) + E & I (B) x	5 %
			See % Table in "Risk Based Cost Estimation" Memo	
D. TOTAL LIQUID AC ADJUSTMENT:	\$	22,064.16	Total From Liquid AC Spreadsheet	
E. CONSTRUCTION TOTAL:	\$	565,608.14	(A + B + C + D = E)	

REIMBURSABLE UTILITY COSTS

UTILITY OWNER	REIMBURSABLE COST
Georgia Power Company	\$21,000.00
TOTAL	\$ 21,000.00

ATTACHMENTS:

Detailed Cost Estimate Printout From TRAQS Liquid AC Adjustment Spreadsheet
--

PROJ. NO. CSNHS-0008-00(043)
P.I. NO. 0008043
DATE 5/27/2015

CALL NO. 9/29/2009

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	May-15	\$ 2.503
DIESEL		\$ 2.809
LIQUID AC		\$ 469.00

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)				20964.3		\$ 20,964.30
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	750.40		
Monthly Asphalt Cement Price month project let (APL)			\$	469.00		
Total Monthly Tonnage of asphalt cement (TMT)				74.5		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm	260	5.0%	13
9.5 mm SP		5.0%	0
25 mm SP	770	5.0%	38.5
19 mm SP	460	5.0%	23
	1490		74.5

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$ 1,099.86		\$ 1,099.86
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	750.40		
Monthly Asphalt Cement Price month project let (APL)			\$	469.00		
Total Monthly Tonnage of asphalt cement (TMT)				3.908541839		

Bitum Tack

Gals	gals/ton	tons
910	232.8234	3.90854184

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				0		\$ -
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	750.40		
Monthly Asphalt Cement Price month project let (APL)			\$	469.00		
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 \$ 22,064.16

DETAILED COST ESTIMATE**Job: 0008043B**

JOB NUMBER 0008043B

FED/STATE PROJECT NUMBER CSNHS-0008-00(043)

SPEC YEAR: 01

DESCRIPTION: SR 515 AT CR 250/ANTIOCH CHURCH ROAD
(CONCEPT COST ESTIMATE)

ITEMS FOR JOB 0008043B**0010 - ROADWAY**

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$50,000.00000	TRAFFIC CONTROL - CSNHS-0008-00(043)	\$50,000.00
0015	210-0100	1.000	LS	\$100,000.00000	GRADING COMPLETE - CSNHS-0008-00(043)	\$100,000.00
0175	441-0756	640.000	SY	\$43.17161	CONC MEDIAN, 8 IN	\$27,629.83
0025	641-1200	2300.000	LF	\$15.87674	GUARDRAIL, TP W	\$36,516.50
0030	641-5001	2.000	EA	\$617.66174	GUARDRAIL ANCHORAGE, TP 1	\$1,235.32
0035	641-5012	3.000	EA	\$1,831.98493	GUARDRAIL ANCHORAGE, TP 12	\$5,495.95
SUBTOTAL FOR ROADWAY:						\$220,877.60

0020 - PAVEMENT

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0040	310-1101	2700.000	TN	\$20.19385	GR AGGR BASE CRS, INCL MATL	\$54,523.40
0049	402-3121	770.000	TN	\$75.29410	RECYL AC 25MM SP,GP1/2,BM&HL	\$57,976.46
0155	402-3130	260.000	TN	\$89.16127	RECYL AC 12.5MM SP,GP2,BM&HL	\$23,181.93
0050	402-3190	460.000	TN	\$77.83787	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$35,805.42
0055	413-1000	910.000	GL	\$2.61117	BITUM TACK COAT	\$2,376.16
0195	432-5010	3400.000	SY	\$3.36010	MILL ASPH CONC PVMT,VARB DEPTH	\$11,424.34
SUBTOTAL FOR PAVEMENT:						\$185,287.71

0030 - SIGNING & MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0185	636-1033	200.000	SF	\$18.93118	HWY SIGNS, TP1MAT,REFL SH TP 9	\$3,786.24
0190	636-2070	91.000	LF	\$7.08903	GALV STEEL POSTS, TP 7	\$645.10
0060	653-1501	5970.000	LF	\$0.60838	THERMO SOLID TRAF ST 5 IN, WHI	\$3,632.03
0065	653-1502	2770.000	LF	\$0.57620	THERMO SOLID TRAF ST, 5 IN YEL	\$1,596.07
0170	653-4501	1.000	GLM	\$1,085.06391	THERMO SKIP TRAF ST, 5 IN, WHI	\$1,085.06
0180	653-6004	2240.000	SY	\$3.41367	THERM TRAF STRIPING, WHITE	\$7,646.62
0075	654-1001	50.000	EA	\$4.24520	RAISED PVMT MARKERS TP 1	\$212.26
0165	654-1003	150.000	EA	\$3.72898	RAISED PVMT MARKERS TP 3	\$559.35
SUBTOTAL FOR SIGNING & MARKING:						\$19,162.73

DETAILED COST ESTIMATE



Job: 0008043B

0040 - EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0080	163-0232	3.000	AC	\$38.71430	TEMPORARY GRASSING	\$116.14
0085	163-0240	130.000	TN	\$182.80508	MULCH	\$23,764.66
0090	163-0300	2.000	EA	\$1,272.37030	CONSTRUCTION EXIT	\$2,544.74
0095	165-0030	2000.000	LF	\$1.06293	MAINT OF TEMP SILT FENCE, TP C	\$2,125.86
0105	165-0101	1.000	EA	\$577.22103	MAINT OF CONST EXIT	\$577.22
0110	167-1000	1.000	EA	\$166.98760	WATER QUALITY MONITORING AND SAMPLING	\$166.99
0115	167-1500	12.000	MO	\$367.85998	WATER QUALITY INSPECTIONS	\$4,414.32
0125	171-0030	4000.000	LF	\$2.43062	TEMPORARY SILT FENCE, TYPE C	\$9,722.48
0130	700-6910	2.000	AC	\$674.81669	PERMANENT GRASSING	\$1,349.63
0135	700-7000	6.000	TN	\$52.11642	AGRICULTURAL LIME	\$312.70
0140	700-8000	8.000	TN	\$433.49119	FERTILIZER MIXED GRADE	\$3,467.93
0145	700-8100	435.000	LB	\$1.61875	FERTILIZER NITROGEN CONTENT	\$704.16
0150	716-2000	22005.000	SY	\$0.83688	EROSION CONTROL MATS, SLOPES	\$18,415.54
SUBTOTAL FOR EROSION CONTROL:						\$67,682.37

TOTALS FOR JOB 0008043B

ITEMS COST:	\$493,010.41
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$493,010.41
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$493,010.41

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE CSNHS-0008-00 (043), Pickens County OFFICE Cartersville
SR 515/US 76 @ Antioch Church Road
P.I. No. 0008043 DATE May 22, 2015

FROM  Kerry D. Bonner
District Utilities Engineer

TO Albert V. Shelby, P.E., State Program Delivery Engineer
ATTN **Kevin Bailey**

SUBJECT UPDATED UTILITY COST ESTIMATE

As requested by your office, we are furnishing you with an Updated Utility Cost estimate for each utility with facilities potentially located within the project limits.

FACILITY OWNER	NON-REIMBURSABLE	REIMBURSABLE
Amicalola EMC	\$ 21,000.00	
City of Jasper – Water	\$ 105,000.00	
Ellijay Telephone Company	\$ 31,500.00	
Georgia Power Company - Dist Frontier Corp.	No Facilities	\$ 21,000.00
Pickens County Water & Sewer	No Facilities	
TDS Telcom	No Facilities	
Totals	\$ 157,500.00	\$ 21,000.00

Total Utility Cost \$ 178,500.00.

If you have any questions, please contact Stan McCarley at 678-721-5324.

KDB/sm

C: Lee Upkins, State Utilities Engineer
Reggie Ward, District 6 Design
File

CRASH HISTORY: SR 515 @ ANTIOCH CHURCH ROAD

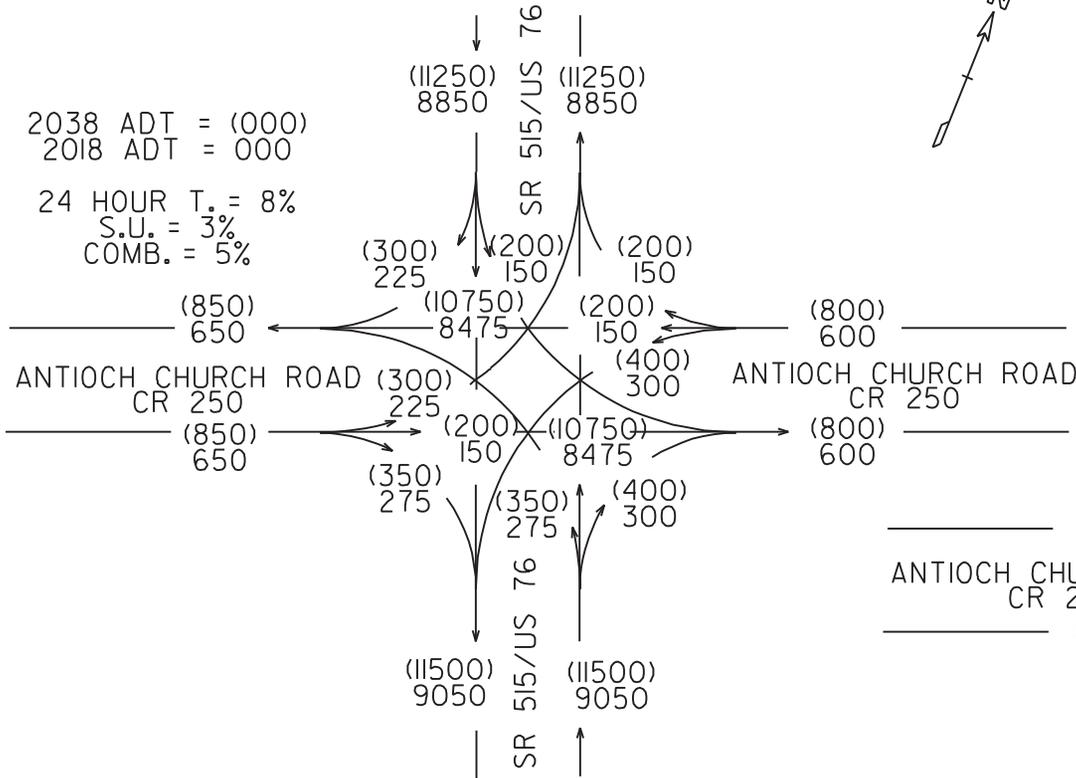
AccidentNo	AccidentNumber	LocalCode	Date	Time	County	RouteType	Route	Milelog	RampSection	IntersectingRoute	MannerOfCollision	FirstHarmfulEvent	Injuries	Fatalities	MicrofilmNo	LatDecimal	LongDecimal
417751	417751	28-0141-10	3/11/2010	11:00:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Rear End	Motor Vehicle In Motion	0	0		34.46847	-84.42696
1781916	1781916	28006910	1/30/2010	13:15:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Angle	Motor Vehicle In Motion	6	0	A0530627	34.50739	-84.515888
3399308	3399308	28014110	3/11/2010	11:00:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Rear End	Motor Vehicle In Motion	0	0	A1290151	34.401192	-84.416458
3507981	3507981	28-0465-10	9/23/2010	10:15:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Not A Collision with Motor Vehicle	Over Turn	1	0		34.507293	-84.515405
3543628	3543628	28-0543-10	11/1/2010	7:25:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Not A Collision with Motor Vehicle	Deer	0	0		34.46847	-84.42696
3550403	3550403	28-0584-10	11/22/2010	16:03:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Angle	Motor Vehicle In Motion	1	0		34.46847	-84.42696
3550407	3550407	28-0591-10	11/24/2010	8:59:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Sideswipe-Same Direction	Motor Vehicle In Motion	0	0		34.46847	-84.42696
3633073	3633073	C000052506	2/15/2011	13:45:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Rear End	Other Object (Not Fixed)	3	0		34.50812	-84.51639
3633891	3633891	11010439	1/18/2011	17:10:00	PICKENS	State Route	SR 515	0	0	ANTIOCH CHURCH RD	Angle	Motor Vehicle In Motion	0	0	B0460600	34.507221	-84.515651
3633894	3633894	11010778	1/31/2011	12:45:00	PICKENS	State Route	SR 515	0	0	ANTIOCH CHURCH RD	Angle	Motor Vehicle In Motion	0	0	B0460603	34.507221	-84.515651
3772113	3772113	C000052512	5/14/2011	12:40:00	PICKENS	State Route	SR 515	0	0	ANTIOCH CHURCH RD	Angle	Other Object (Not Fixed)	4	0		34.50728	-84.51542
3805534	3805534	C000058893	6/26/2011	0:00:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD		Over Turn	0	0		34.50544	-84.51252
3928982	3928982	C000073963	11/24/2011	23:15:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Not A Collision with Motor Vehicle	Animal	0	0		34.50614	-84.51385
4092625	4092625	C000112483	5/16/2012	15:35:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Angle	Other Object (Not Fixed)	4	0		34.50725	-84.51519
4124049	4124049	120510854	5/29/2012	0:26:00	PICKENS	HWY 515		0	0	ANTIOCH CHURCH RD	Head On	Guard Rail Face	0	0	C1650239	-1	-1
4245828	4245828	C000136261	11/2/2012	18:40:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Angle	Other Object (Not Fixed)	1	0		34.50734	-84.51581
4253077	4253077	C000132235	11/4/2012	16:01:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Angle	Other Object (Not Fixed)	0	0		34.50693	-84.51534
4828177	4828177	C000236993	4/24/2014	13:50:00	PICKENS	State Route	SR 5	0	0	ANTIOCH CHURCH RD	Angle	Other Object (Not Fixed)	2	0		34.50742	-84.51519

PICKENS COUNTY
NO BUILD = BUILD



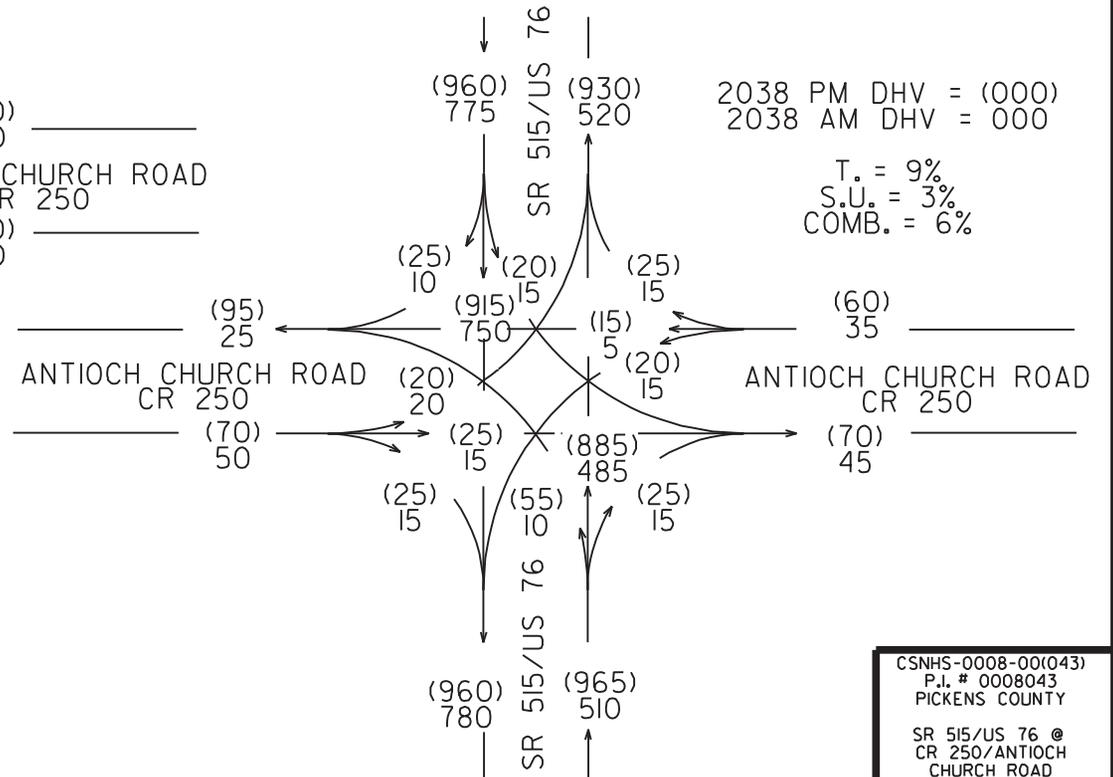
2038 ADT = (000)
2018 ADT = 000

24 HOUR T. = 8%
S.U. = 3%
COMB. = 5%



2038 PM DHV = (000)
2038 AM DHV = 000

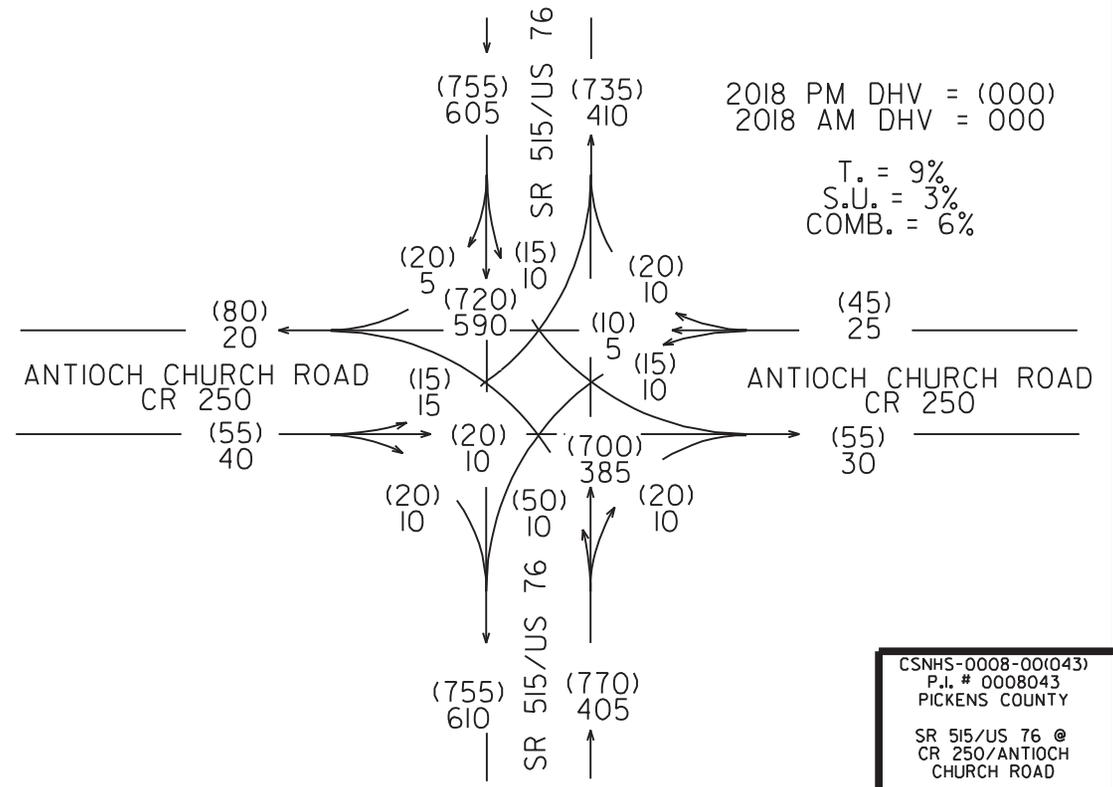
T. = 9%
S.U. = 3%
COMB. = 6%



CSNHS-0008-00(043)
P.L. # 0008043
PICKENS COUNTY
SR 515/US 76 @
CR 250/ANTIOCH
CHURCH ROAD

PICKENS COUNTY
NO BUILD = BUILD

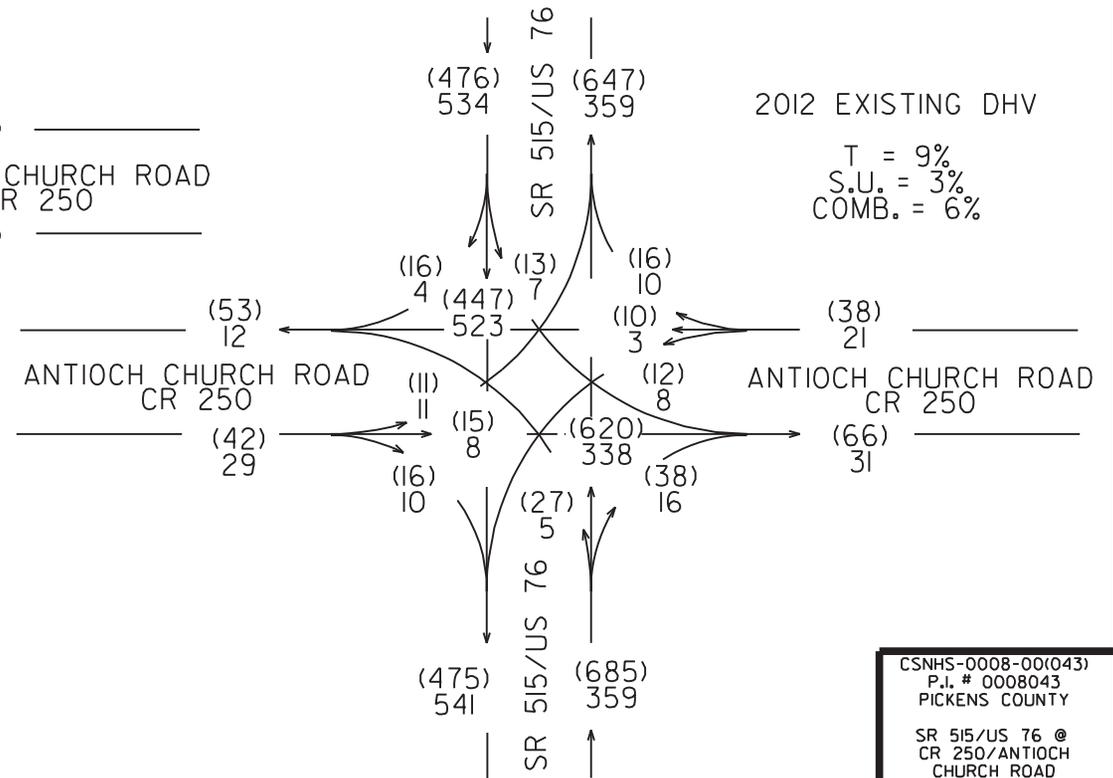
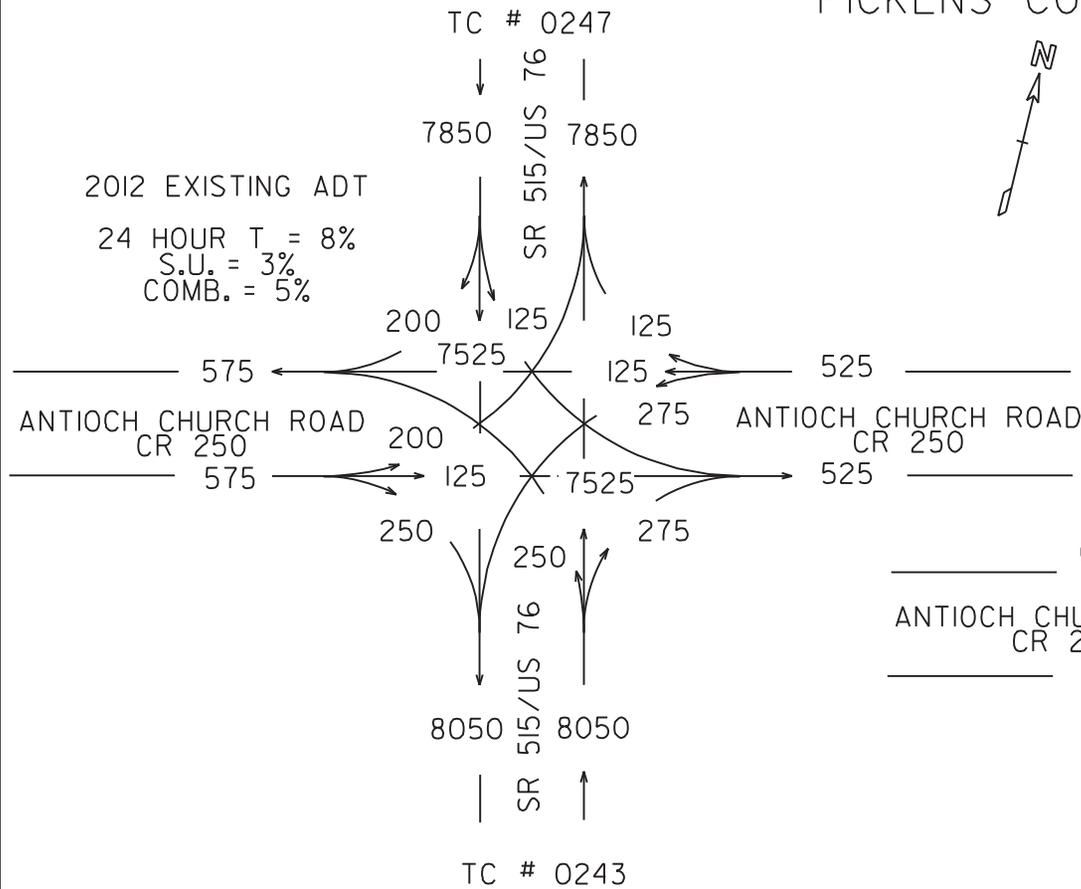
GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING



CSNHS-0008-00(043)
P.I. # 0008043
PICKENS COUNTY

SR 515/US 76 @
CR 250/ANTIOCH
CHURCH ROAD

PICKENS COUNTY



CSNHS-0008-00(043)
P.J. # 0008043
PICKENS COUNTY

SR 515/US 76 @
CR 250/ANTIOCH
CHURCH ROAD

Initial Concept Team Meeting Minutes

Project Number: CSNHS-0008-00(043)

P. I. Number: 0008043

Federal Route Number: None

State Route Number: 515

County Route Number: None

Intersection Improvements of SR 515 at CR 250/Antioch Church Road

County: Pickens

Date: November 14, 2014

Location: GDOT District 6

Total Minutes: 45 mins

Attendees:

Reggie Ward	GDOT	rward@dot.ga.gov
Sam Wheeler	GDOT	swheeler@dot.ga.gov
Curtis Powell	GDOT	cpowell@dot.ga.gov
David Ray	GDOT	dray@dot.ga.gov
Kevin Bailey	GDOT	kebailey@dot.ga.gov

The meeting was opened by Kevin Bailey at 11:00 AM. He read the Need and Purpose, the Traffic Information and Description of the Project. He opened the floor up for discussion.

- Sam Wheeler (Area Engineer) told us in the meeting about a waterpark that might be coming to the area near this intersection.
- Discussion was made about not requiring any R/W and therefore keeps the project cost down.

Kevin adjourned the meeting around 11:45 and stated the Concept Team might be held in a couple of months after addressing emailed comments and meeting comments.

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

DATE: May 14, 2015 10:00am **OFFICE:** Program Delivery
FROM: Kevin Bailey, Project Manager
SUBJECT: Concept Meeting Minutes
P.I. NO: 0008043 Pickens
LOCATION: District 6 – Cartersville; Large Conference Room

A concept team meeting was held on the above noted date and had the following discussions:

Project Manager (Kevin Bailey) – Read through the draft concept report for comments from project team.

Design (David Ray) – Page 4: Stated that the TMP requirement should be checked “yes”.
Page 5: Stated that the easements anticipated should be checked “none”
Page 6: Will add OES risk assessment comments to the NEPA/GEPA Comments & Information; ROW Acquisition party responsible should be changed to “N/A”; Environmental Studies, Documents, & Permits should be changed to “GDOT”; Update cost estimates.
Typical Section: Revise to show milling and inlay
Detailed Cost Estimate: Check items and update where necessary

District Traffic Ops (Curtis Powell) - Stated that we need to have a PIOH since this is a new design to the community and county.

ACTION ITEMS:

-Design to update the draft concept report for submittal by May 29, 2015 to PM.