

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 0010849 **OFFICE** Design Policy & Support
Colquitt County
GDOT District 4 - Tifton **DATE** April 14, 2014
SR 35/US 319 @ CR 89 Indian Lake Drive
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
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Charles "Chuck" Hasty, State Materials Engineer
Mike Bolden, State Utilities Engineer
Jeff Fletcher, Statewide Location Bureau Chief
Emmanuella Myrthil, State Safety Program Coordinator
Joe Sheffield, District Engineer
Brent Thomas, District Preconstruction Engineer
Tim Warren, District Utilities Engineer
Sonja Thompson, Project Manager
BOARD MEMBER - 8th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
PROJECT CONCEPT REPORT**

Project Type: <u>Intersection Improvement</u>	P.I. Number: <u>0010849</u>
GDOT District: <u>4</u>	County: <u>Colquitt</u>
Federal Route Number: <u>US 319</u>	State Route Number: <u>SR 35</u>
Project Number: _____	<u>N/A</u>

The project includes proposed turn lane improvements, geometric corrections, and upgrades to reduce crash frequency and severity to improve operations along SR 35 at Indian Lake Drive and at the Georgia Florida Railroad crossing. The gross length of this project is 0.5 miles.

Submitted for approval:

<u>Michael R. Moseley Jr., Atkins</u>	<u>3/12/2014</u>
DATE	
<u>Albert Shelby</u>	<u>3/14/2014</u>
DATE	
<u>Bonja Thompson</u>	<u>3/12/2014</u>
DATE	

Recommendation for approval:

Program Control Administrator	DATE
* <u>Glenn Bowman / KLP</u>	<u>2-23-14</u>
State Environmental Administrator	DATE
* <u>Kathy Zahul / KLP</u>	<u>2-28-14</u>
State Traffic Engineer	DATE
* <u>Lisa Myers / KLP</u>	<u>2-24-14</u>
Project Review Engineer	DATE
* <u>Jun Birnkammer / KLP</u>	<u>2-25-14</u>
State Utilities Engineer	DATE
* <u>FOR Joe Sheffield / KLP</u>	<u>2-24-14</u>
District Engineer	DATE
State Transportation Financial Management Administrator	DATE

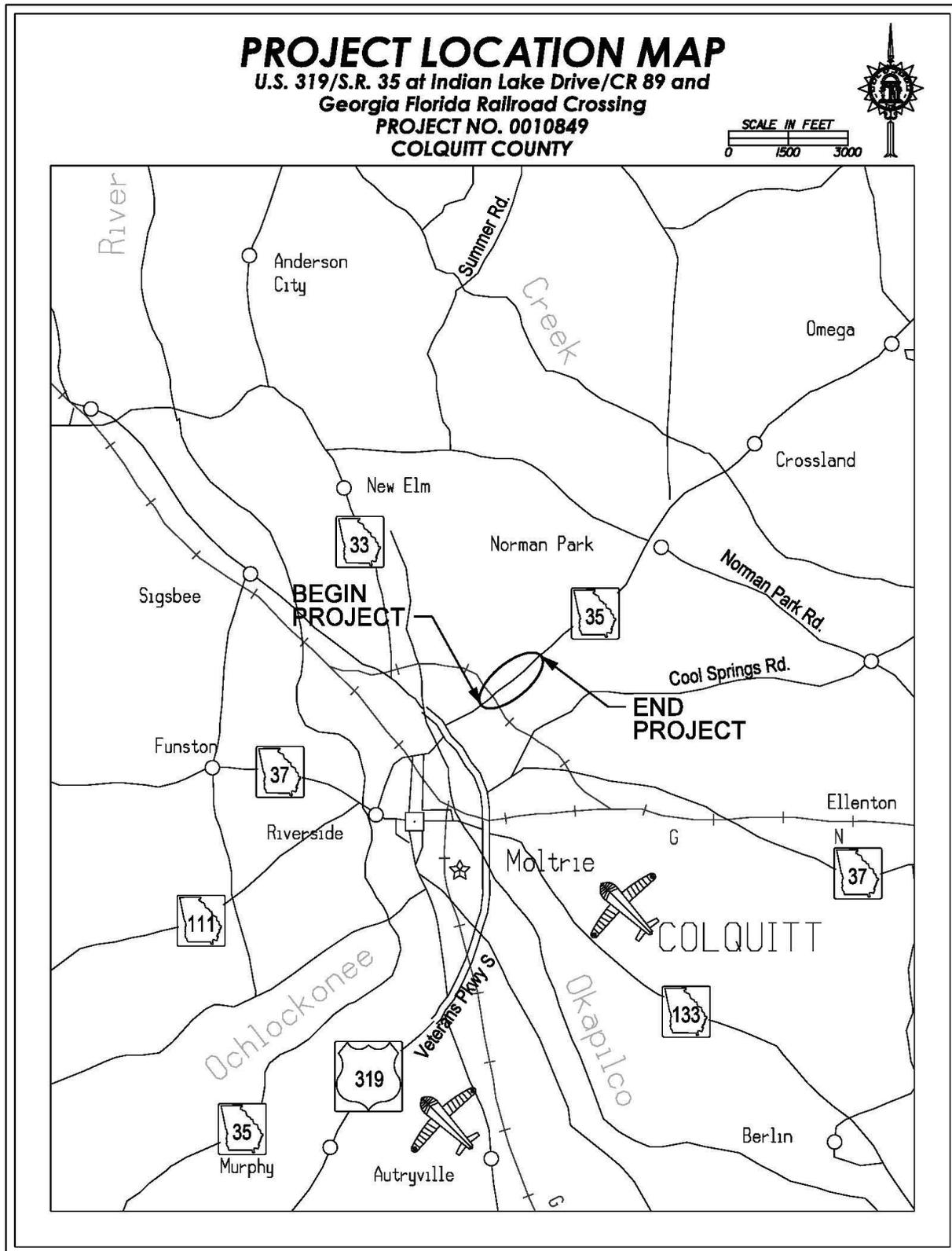
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

* <u>Cynthia VanDyke</u>	<u>2-20-14</u>
State Transportation Planning Administrator	DATE

* Recommendations on file

County: Colquitt

PROJECT LOCATION MAP



County: Colquitt

PLANNING AND BACKGROUND

Project Justification Statement:

The purpose of this project is to reduce crash frequency and severity while improving the operation of US 319/SR 35 by providing left and right turn lanes on both approaches to the Indian Lake Drive (CR 89) intersection as recommended by the traffic engineering report dated June 22, 2004. In addition to the turn lane improvements, the corridor has other roadway deficiencies in need of correction including substandard horizontal and vertical geometry, guardrail upgrades, and non-standard end treatments at cross and side drain pipes.

Existing conditions:

Typical Section – US 319/SR 35

Sta. 182+00 to Sta. 206+15 in Colquitt County, four 12’ travel lanes, two in each direction, divided by a four foot flush median, eight foot graded shoulders with four foot paved.

Typical Section – County Road

Indian Lake Drive CR 39 in Colquitt County, two 11.5’ travel lanes, one in each direction, paved, 70° left of mainline, 30’ prescriptive R/W.

Other projects in the area:

CSSTP-0007-00 (183) – Project provides left and right turn lanes to 42 county road intersections, improves substandard horizontal and vertical curves, upgrades guardrail, and improves non-standard end treatment at cross and side drain pipes.

MPO: N/A - Project not in MPO

MPO Project ID

Regional Commission: Southwest Georgia RC

RC Project ID N/A

Congressional District(s): 8

Federal Oversight: Full Oversight Exempt State Funded Other

Projected Traffic: ADT

Current Year (2013): 8770 Open Year (2016): 8900

Design Year (2036): 9830

Traffic Projections Performed by: ATKINS

Functional Classification (Mainline): Rural Principal Arterial

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

Warrants met: None Bicycle Pedestrian Transit

Is this a 3R (Resurfacing, Restoration, & Rehabilitation) Project? No Yes

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

County: Colquitt

DESIGN AND STRUCTURAL

Description of the proposed project:

The project is located in Colquitt County, Georgia approximately 1.7 mile NE of Moultrie, Georgia at the intersection of SR 35/US 319 and Indian Lake Drive/CR 89 (mile log 14.95). The project includes proposed turn lane improvements, geometric corrections, and upgrades to improve the overall operations and reduce crash severity and frequency along SR 35 at Indian Lake Drive & at the Georgia Florida Railroad crossing. The gross length of this project is 0.5 miles.

Major Structures: N/A

Mainline Design Features: US 319/SR 35

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	4	4	4
- Lane Width(s)	12'	12'	12'
- Median Width & Type	4' flush	N/A	20' flush
- Outside Shoulder or Border Area Width	8' (4' paved)	10' (6.5' paved)	10' (4' paved)
- Outside Shoulder Slope	4%	6%	4%
- Inside Shoulder Width	N/A	N/A	N/A
- Sidewalks	N/A	N/A	N/A
- Auxiliary Lanes	12'	12'	12'
- Bike Lanes	N/A	4'	N/A
Posted Speed	55		55
Design Speed	55	55	55
Min Horizontal Curve Radius	N/A	1060'	N/A
Maximum Superelevation Rate	4%	6%	4%
Maximum Grade	3.5%	4%	3.5%
Access Control	By Permit	By Permit	By Permit
Design Vehicle	WB-40 or WB-62	WB-40 or WB-62	WB-40 or WB-62
Pavement Type	Asphalt	Asphalt	Asphalt

*According to current GDOT design policy if applicable

Major Interchanges/Intersections: None

Lighting required: No Yes

Off-site Detours Anticipated: No Undetermined Yes

A detour/road close request will be needed. The request has been submitted and the PIOH for the detour will be held on April 29, 2014. See attachment for detour map.

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

Design Exceptions to FHWA/AASHTO controlling criteria anticipated:

FHWA/AASHTO Controlling Criteria	No	Undetermined	Yes	Appvl Date (if applicable)
1. Design Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Lane Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Shoulder Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

County: Colquitt

4. Bridge Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Horizontal Alignment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Superelevation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Vertical Alignment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Grade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Stopping Sight Distance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Cross Slope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Vertical Clearance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Lateral Offset to Obstruction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Bridge Structural Capacity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Design Variances to GDOT Standard Criteria anticipated:

GDOT Standard Criteria	Reviewing Office	No	Undeter-- mined	Yes	Appvl Date (if applicable)
1. Access Control/Median Openings	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Intersection Sight Distance	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Intersection Skew Angle	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Lateral Offset to Obstruction	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Rumble Strips	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Safety Edge	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Median Usage	DP&S	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. Roundabout Illumination Levels	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Complete Streets	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. ADA & PROWAG	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. GDOT Construction Standards	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. GDOT Drainage Manual	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. GDOT Bridge & Structural Manual	Bridges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

A design variance will be required for a median that does not meet GDOT Policy for Arterial Roadway with speed of 55 mph. According to Section 6.12.2 of the GDOT Design Policy Manual (2/25/2014) a 24 ft raised median is required. This project proposes to match existing geometry on the corridor which is a flush median that varies from 4 ft to 20 ft. A 12 ft raised median is proposed on both approaches to the Georgia Florida Railroad crossing.

VE Study anticipated: No Yes Completed – Date:

UTILITY AND PROPERTY

Temporary State Route needed: No Yes Undetermined

Railroad Involvement: The existing at-grade crossing of Georgia and Florida Railway is a permitted crossing.

Utility Involvements: The following utilities are located along the project corridor

- Windstream Communications
- Colquitt EMC
- AT&T / Bellsouth
- CNS Moultrie
- MediaCom
- Georgia Power Company - Distribution

SUE Required: No Yes Undetermined

Public Interest Determination Policy and Procedure recommended (Utilities)? No Yes

Right-of-Way (ROW): Existing width: 172 to 183 ft Proposed width: 172 to 183 ft
 Required Right-of-Way anticipated: None Yes Undetermined
 Easements anticipated: None Temporary Permanent Utility Other
 Anticipated total number of impacted parcels: 0
 Displacements anticipated: Businesses: 0
 Residences: 0
 Other: 0
 Total Displacements: 0

All right-of-way and easements were previously acquired as part of PI 0007183.

Location and Design approval: Not Required Required

CONTEXT SENSITIVE SOLUTIONS

Issues of Concern: There are unavoidable impacts to wetlands and stream buffers.

Context Sensitive Solutions Proposed: The design will utilize maximum slopes, 2:1, and install guardrail to limit impacts to the stream buffer and wetlands.

ENVIRONMENTAL & PERMITS

Anticipated Environmental Document:

GEPA: NEPA: CE EA/FONSI EIS

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

Environmental Permits/Variations/Commitments/Coordination anticipated:

Permit/ Variance/ Commitment/ Coordination Anticipated	No	Yes	Remarks
1. U.S. Coast Guard Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Forest Service/Corps Land	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. CWA Section 404 Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Tennessee Valley Authority Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Buffer Variance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6. Coastal Zone Management Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. NPDES	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
8. FEMA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
9. Cemetery Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Other Permits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Other Commitments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Other Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Impacts to Stream 1 and Wetland 2 were included in the 404 Permit verification (RP1) issued on 3/6/2012. RP1 expired on 5/16/2013 and was subsequently reissued. Further clarification from COE is needed to determine extent of re-coordination required. Due to impacts to the stream buffer at Stream 1, a stream buffer variance may be required.

County: Colquitt

Is a PAR required? No Yes Completed – Date:

Environmental Comments and Information:

NEPA/GEPA: The project will be evaluated as a Reevaluation to the Categorical Exclusion (approved 4/7/2010) completed for project PI 0007183 and subsequent CE Reevaluation (approved 4/2/2012) completed for projects PI 0007183 and 0010849.

Ecology: Impacts to Waters of the US for PI 0010849 were covered under RP1 issued for both projects (PI 0007183 and 0010849) on 3/6/2012. RP1 expired on 5/16/2013 and was subsequently reissued. Re-coordination of the permit for PI 0010849 will be required. Due to impacts to the stream buffer at Stream 1, a buffer variance may be required.

History: One historic resource, the Georgia & Florida Railway, is located within the APE of PI 0010849. No adverse effects are anticipated.

Archeology: No adverse effects anticipated

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

Noise Effects: No adverse effects anticipated. No noise barriers are anticipated.

Public Involvement: Detour PIOH will be required due to the RR detour and has been scheduled for 4/29/2014.

Major stakeholders: Traveling public, emergency services and schools will be a major stakeholder due to the length of the proposed detour.

CONSTRUCTION

Issues potentially affecting constructability/construction schedule: SR 35/US 319 will require closure while the crossing with Georgia Florida Railroad is widened and replaced. The railroad in an email February 11, 2014 from William C. McDaniel indicated that the time required for the work would be between 72 to 84 hrs.

Early Completion Incentives recommended for consideration: No Yes

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Initial Concept Meeting: N/A

Concept Meeting: 1/23/2014

Other coordination to date: N/A

Project Activity	Party Responsible for Performing Task(s)
Concept Development	Atkins
Design	Atkins
Right-of-Way Acquisition	N/A
Utility Relocation	Utility Owner
Letting to Contract	GDOT

County: Colquitt

Construction Supervision	GDOT
Providing Material Pits	Contractor
Providing Detours	Contractor
Environmental Studies, Documents, & Permits	Atkins
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

Project Cost Estimate Summary and Funding Responsibilities:

	Breakdown of PE	ROW	Reimbursable Utility	CST*	Environmental Mitigation	Total Cost
Funded By	GDOT	N/A		GDOT	N/A	
\$ Amount	\$250,000	0	0	\$1,229,487.17	0	\$1,479,487.17
Date of Estimate	1/9/2012		1/28/2014	3/26/2014		

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

ALTERNATIVES DISCUSSION

Alternative selection:

Alternative 1: Multi-lane roundabout			
Estimated Property Impacts:		Estimated Total Cost:	\$2,000,000.00
Estimated ROW Cost:		Estimated CST Time:	18 months
Rationale: Eliminated due to construction cost and impact to adjacent properties			

No-Build Alternative: Eliminated because does not reduce crash severity and frequency			
Estimated Property Impacts:		Estimated Total Cost:	
Estimated ROW Cost:		Estimated CST Time:	
Rationale:			

Comments: N/A

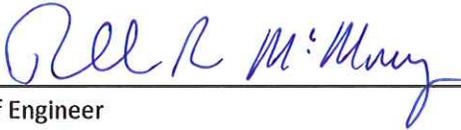
LIST OF ATTACHMENTS/SUPPORTING DATA

1. Concept Layout
2. Typical sections
3. Detailed Cost Estimates:
 - a. Construction including Engineering and Inspection
 - b. Completed Fuel & Asphalt Price Adjustment forms
4. Crash summaries
5. Traffic diagrams
6. Minutes of Concept meetings
7. Non-Reimbursable Utility Cost Estimates
8. Email from William C. McDaniel regarding Georgia Florida Railroad needed closure of SR 35/US 319 and Detour Map.

County: Colquitt

APPROVALS

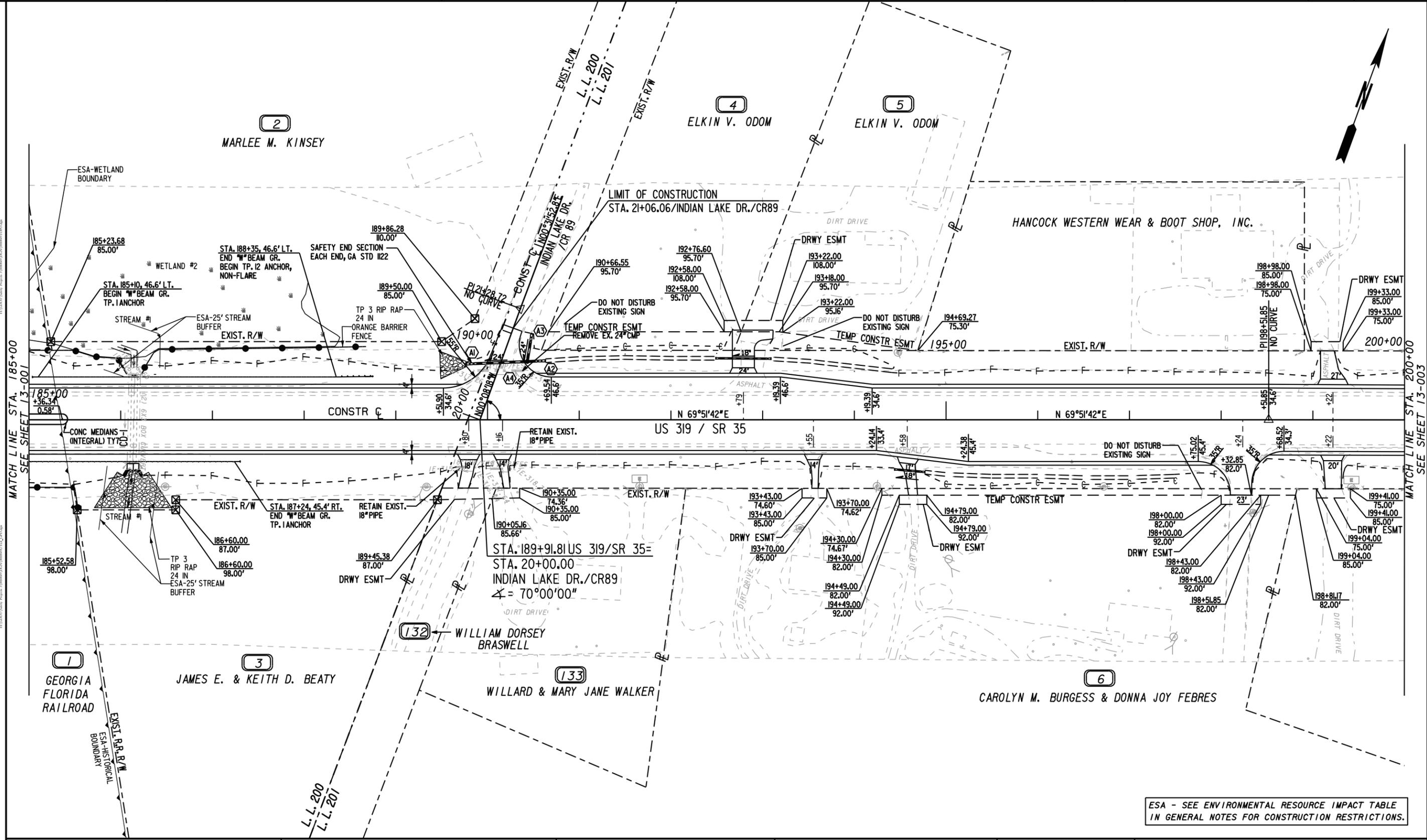
Concur: 
Director of Engineering

Approve: 
Chief Engineer

4-7-14
Date

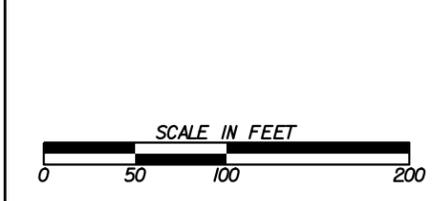
ATTACHMENT 1

Concept Layout



PROPERTY AND EXISTING R/W LINE --- e ---
 REQUIRED R/W LINE --- f ---
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR OF SLOPES
 EASEMENT FOR CONSTR OF DRIVES

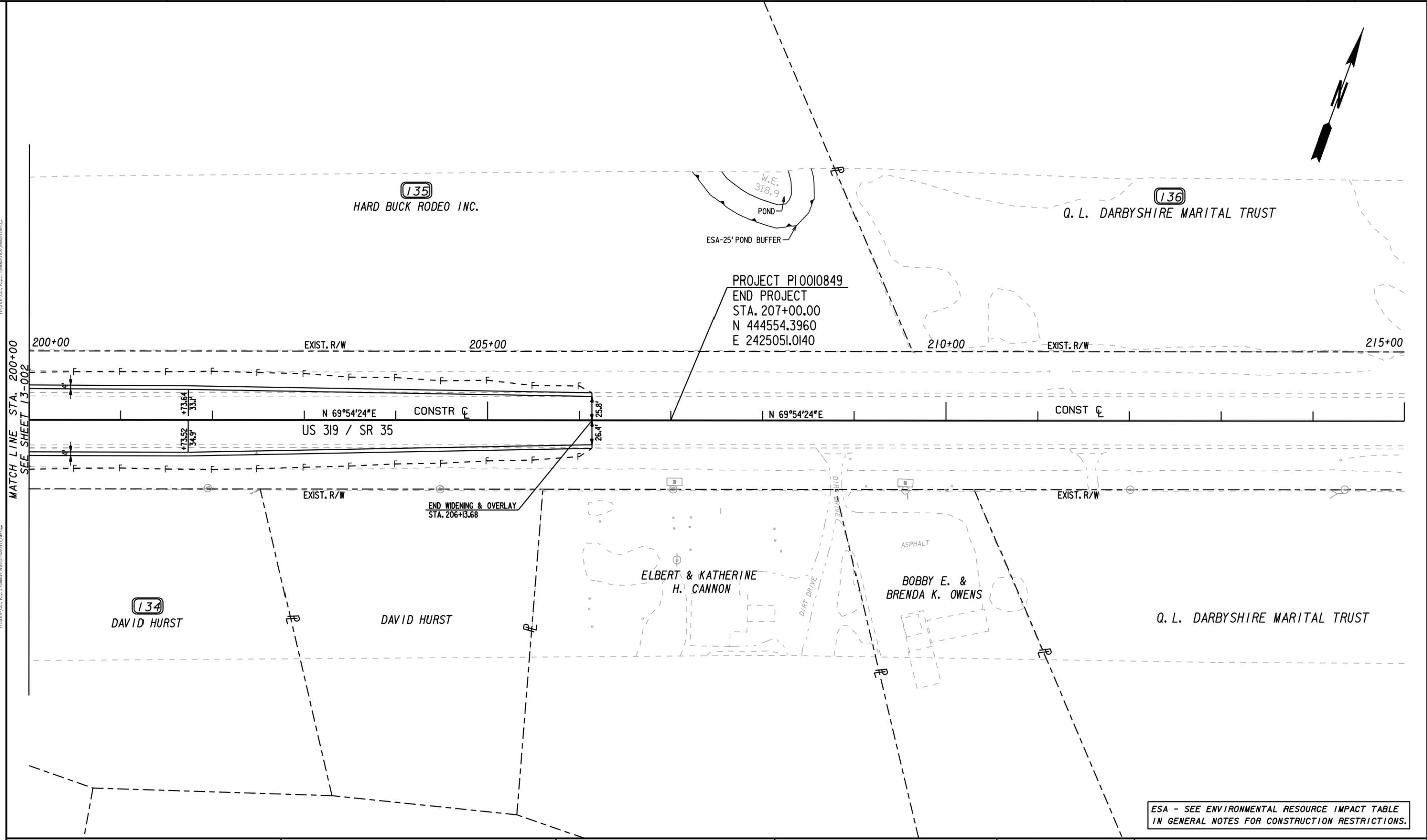
BEGIN LIMIT OF ACCESS.....BLA
 END LIMIT OF ACCESS.....ELA
 LIMIT OF ACCESS
 REQ'D R/W & LIMIT OF ACCESS



REVISION	DATE	DESCRIPTION

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY
MAINLINE PLAN
 US 319 / SR 35
 DRAWING No. 13-002

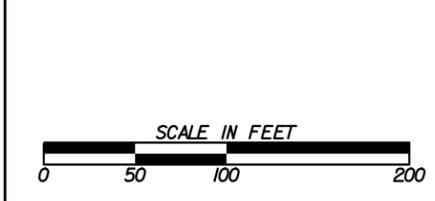
ESA - SEE ENVIRONMENTAL RESOURCE IMPACT TABLE
 IN GENERAL NOTES FOR CONSTRUCTION RESTRICTIONS.



MATCH LINE STA. 200+00
SEE SHEET 13-002

PROPERTY AND EXISTING R/W LINE	---
REQUIRED R/W LINE	---
CONSTRUCTION LIMITS	---
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 ACCESS	---
REQ'D R/W & LIMIT OF ACCESS	---



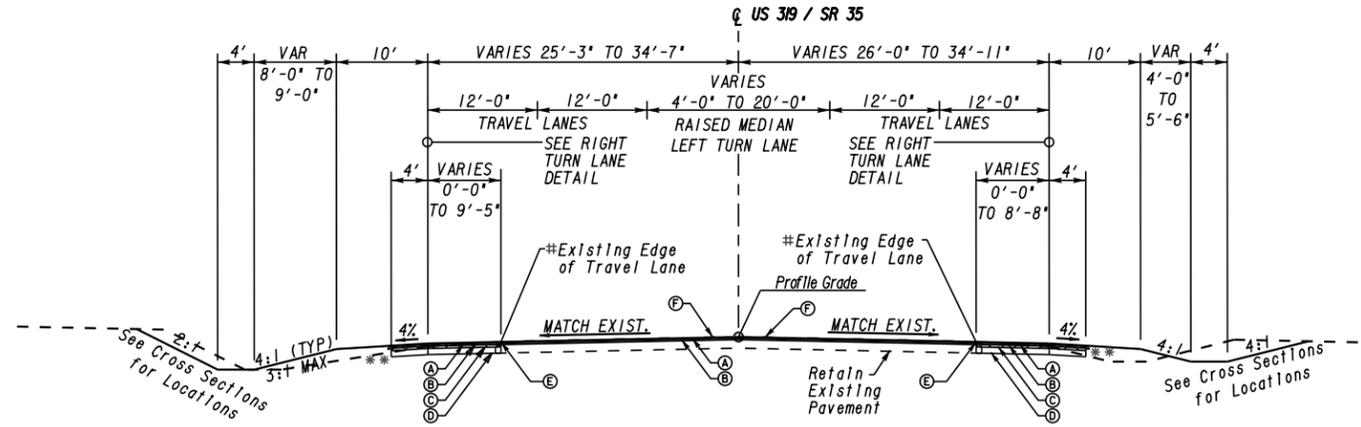
REVISION DATES	

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY
MAINLINE PLAN
US 319 / SR 35

DRAWING No.
13-003

ATTACHMENT 2

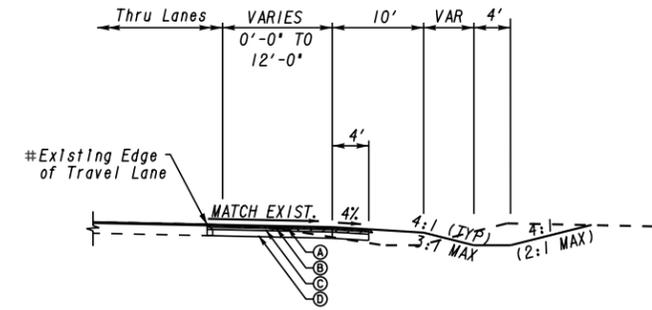
Typical Sections



TYPICAL SECTION 1
US 319 / SR 35

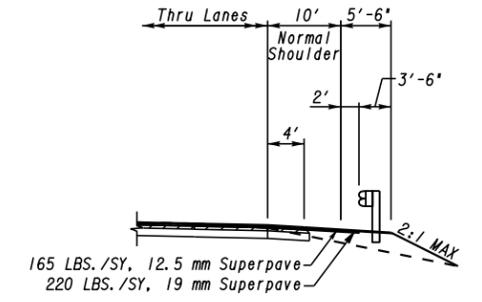
STA. 178+79.17 TO STA. 206+13.68

- * - SKIP RUMBLE STRIPS ON PAVED SHOULDER
- ** - PAVEMENT EDGE TREATMENT SEE GA DETAIL P7 FOR DETAILS
- ** - EXISTING PAVED SHOULDER TO BE REMOVED. COST TO BE INCLUDED IN GRADING COMPLETE.

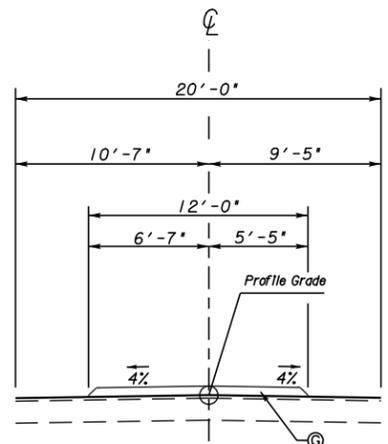


DETAIL FOR RIGHT TURN LANE
RURAL SECTION

STA. 190+69.54 - STA. 194+19.39 (LT)
STA. 194+24.14 - STA. 197+75.02 (RT)



SHOULDER DETAIL FOR
GUARDRAIL
SEE PLANS FOR LOCATION



DETAIL FOR RAISED MEDIAN

STA. 183+33.17 - STA. 184+16.45
STA. 184+54.46 - STA. 185+42.34

NOTE: PAVING/SOULDER BREAKOVER NOT TO EXCEED 8%

PAVEMENT MATERIAL SCHEDULE	
(A)	RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL AND H LIME, 165 lb/yd ²
(B)	RECYCLED ASPH CONC 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM, 220 lb/yd ²
(C)	RECYCLED ASPH CONC 25 mm SUPERPAVE, GP 1 OR 2, INCL BITUM, 330 lb/yd ²
(D)	GRADED AGGREGATE BASE, 8 IN
(E)	PAVEMENT REINFORCING FABRIC STRIP
(F)	MILL ASPH CONC PVMT, 3/2" IN DEPTH
(G)	CONCRETE MEDIAN, INTEGRAL, 7/2" THICK, TYPE 7, GA STD. 9032 B

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY
TYPICAL SECTIONS
US 319 / SR 35

ATKINS

ATTACHMENT 3

Cost Estimates

CES0010849_0326_2014.TXT
STATE HIGHWAY AGENCY

DATE : 03/26/2014
PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0010849 SPEC YEAR: 01
DESCRIPTION: SR35/US319 @ CR89/INDIAN LAKE ROAD

ITEMS FOR JOB 0010849

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 0010849	1.000	50000.00	50000.00
0010	210-0100		LS	GRADING COMPLETE - 0010849	1.000	75000.00	75000.00
0015	310-1101		TN	GR AGGR BASE CRS, INCL MATL	2600.000	26.37	68570.03
0020	318-3000		TN	AGGR SURF CRS	500.000	28.96	14484.72
0025	402-1812		TN	RECYL AC LEVELING, INC BM&HL	200.000	91.65	18330.90
0030	402-3121		TN	RECYL AC 25MM SP, GP1/2, BM&HL	860.000	85.21	73285.69
0035	402-4510		TN	RECYL AC 12.5 MM SP, GP2ONLY, INC P-MBM&HL	2100.000	102.93	216165.64
0040	402-3190		TN	RECYL AC 19 MM SP, GP 1 OR 2 , INC BM&HL	2800.000	85.63	239791.02
0045	407-0010		LF	ASPH-RUB JOINT/CRACK SEAL TP M	2000.000	1.03	2062.32
0050	413-1000		GL	BITUM TACK COAT	2500.000	3.36	8409.15
0055	432-0214		SY	MILL ASPH CONC PVMT, 3.5" DPTH	19500.000	2.50	48750.00
0058	432-5010		SY	MILL ASPH CONC PVMT, VARB DEPTH	800.000	6.96	5571.06
0059	441-0754		SY	CONC MEDIAN, 7 1/2 IN	250.000	47.22	11806.98
0060	446-1100		LF	PVMT REF FAB STRIPS, TP2, 18 INCH WIDTH	4800.000	4.05	19440.48
0063	456-2015		GLM	INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP)	1.000	4318.27	4318.28
0064	456-2025		GLM	INDNT, CNTR LN RUM STRP - GND-IN-PL(CON)	0.500	632.93	316.47
0065	500-9999		CY	CL B CONC, BASE OR PVMT WIDEN	120.000	193.90	23268.43
0070	634-1200		EA	RIGHT OF WAY MARKERS	7.000	117.90	825.34
0075	641-1200		LF	GUARDRAIL, TP W	525.000	21.56	11322.35
0080	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	2.000	872.17	1744.35
0085	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	2.000	1963.83	3927.67
0090	207-0203		CY	FOUND BK FILL MATL, TP II	10.000	63.88	638.80
0095	500-3101		CY	CLASS A CONCRETE	21.000	702.62	14755.11
0100	511-1000		LB	BAR REINF STEEL	1400.000	1.24	1741.88
0105	550-1240		LF	STM DR PIPE 24", H 1-10	69.000	50.45	3481.09
0110	550-2180		LF	SIDE DR PIPE 18", H 1-10	62.000	35.00	2170.35
0115	550-3524		EA	SAFETY END SECTION 24", STD, 6:1	2.000	835.61	1671.23
0120	550-3618		EA	SAFETY END SECTION 18", SD, 6:1	4.000	477.76	1911.06
0125	603-2181		SY	STN DUMPED RIP RAP, TP 3, 18"	20.000	60.73	1214.70
0130	603-2182		SY	STN DUMPED RIP RAP, TP 3, 24"	85.000	73.31	6231.44
0134	603-7000		SY	PLASTIC FILTER FABRIC	105.000	4.08	428.60
0135	610-6515		EA	REM HIGHWAY SIGN, STD	8.000	11.48	91.89
0139	632-0003		EA	CHANGEABLE MESS SIGN, PORT, TP 3	6.000	6483.80	38902.81
0140	636-1020		SF	HWY SGN, TP1MAT, REFL SH TP3	20.000	13.95	279.12
0145	636-1033		SF	HWY SIGNS, TP1MAT, REFL SH TP 9	50.000	18.87	943.84
0150	636-2070		LF	GALV STEEL POSTS, TP 7	110.000	7.30	804.07

0155	636-2080	LF	GALV STEEL POSTS, TP 8	40.000	9.16	366.75
0160	653-0100	EA	THERM PVMT MARK, RR/HWY X SYM	4.000	418.25	1673.04
0165	653-0120	EA	THERM PVMT MARK, ARROW, TP 2	14.000	79.08	1107.12

STATE HIGHWAY AGENCY

DATE : 03/26/2014
PAGE : 2

JOB ESTIMATE REPORT

0170	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	6100.000	0.48	2976.37
0175	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	10300.000	0.51	5278.75
0180	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	400.000	6.20	2483.16
0185	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	5600.000	0.24	1379.06
0190	653-6004	SY	THERM TRAF STRIPING, WHITE	330.000	3.57	1178.42
0195	653-6006	SY	THERM TRAF STRIPING, YELLOW	3300.000	3.25	10753.81
0200	654-1001	EA	RAISED PVMT MARKERS TP 1	130.000	3.59	466.86
0205	654-1003	EA	RAISED PVMT MARKERS TP 3	150.000	3.16	474.27
0210	163-0232	AC	TEMPORARY GRASSING	3.000	74.20	222.61
0214	163-0240	TN	MULCH	80.000	221.18	17695.07
0215	163-0300	EA	CONSTRUCTION EXIT	2.000	1389.67	2779.35
0220	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	7.000	334.92	2344.47
0224	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	1.000	520.04	520.05
0225	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	2300.000	0.49	1142.02
0230	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	1200.000	0.52	631.31
0234	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	105.000	1.35	142.45
0235	165-0101	EA	MAINT OF CONST EXIT	2.000	497.76	995.52
0236	165-0110	EA	MAINT OF ROCK FILTER DAM	1.000	151.01	151.02
0240	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	1.000	322.82	322.82
0245	167-1500	MO	WATER QUALITY INSPECTIONS	12.000	515.91	6190.98
0250	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	4600.000	2.65	12215.99
0255	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	2400.000	4.12	9900.14
0260	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	1600.000	1.74	2787.70
0265	700-6910	AC	PERMANENT GRASSING	5.000	649.44	3247.22
0270	700-7000	TN	AGRICULTURAL LIME	15.000	74.14	1112.13
0275	700-8000	TN	FERTILIZER MIXED GRADE	4.000	551.57	2206.32
0280	700-8100	LB	FERTILIZER NITROGEN CONTENT	500.000	2.57	1286.77
0285	711-0100	SY	TURF REINFORCING MATTING, TP 1	620.000	3.96	2455.20
0290	716-2000	SY	EROSION CONTROL MATS, SLOPES	1600.000	1.54	2471.17
ITEM TOTAL						1071614.74
INFLATED ITEM TOTAL						1071614.74
TOTALS FOR JOB 0010849						
ESTIMATED COST:						1071614.79
ENGINEERING & INSPECTION (5.0%):						53580.74
CONTINGENCY PERCENT (0.0):						0.00
ESTIMATED TOTAL:						1125195.53

PROJ. NO.	0010849
P.I. NO.	0010849
DATE	3/11/2014

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Mar-14	\$ 3.293
DIESEL		\$ 3.909
LIQUID AC		\$ 563.00

Link to Fuel and AC Index:

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

LIQUID AC ADJUSTMENTS

$PA = \left(\frac{APM - APL}{APL} \right) \times TMT \times APL$

Asphalt

Price Adjustment (PA)				100664.4	\$	100,664.40
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	900.80		
Monthly Asphalt Cement Price month project let (APL)			\$	563.00		
Total Monthly Tonnage of asphalt cement (TMT)				298		

ASPHALT	Tons	%AC	AC ton
Leveling	200	5.0%	10
12.5 OGFC		5.0%	0
12.5 mm	2100	5.0%	105
9.5 mm SP		5.0%	0
25 mm SP	860	5.0%	43
19 mm SP	2800	5.0%	140
	5960		298

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$	3,627.21	\$	3,627.21
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	900.80			
Monthly Asphalt Cement Price month project let (APL)			\$	563.00			
Total Monthly Tonnage of asphalt cement (TMT)						10.7377523	

Bitum Tack

Gals	gals/ton	tons
2500	232.8234	10.7377523

PROJ. NO.

0010849

CALL NO.

P.I. NO.

0010849

DATE

3/11/2014

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)						0	\$	-
Monthly Asphalt Cement Price month placed (APM)		Max. Cap	60%	\$	900.80			
Monthly Asphalt Cement Price month project let (APL)				\$	563.00			
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							\$	104,291.61
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ATTACHMENT 4

Crash Summaries

QUERY SUMMARY

For Year(s): 2011 thru 2013

Year	County	Route Type	Route Number	Beginning Milelog	Ending Milelog	No. Accidents	No. Injuries	No. Fatalities
2011	Colquitt	State Route	003500	0.00	0.47	2	4	0
2011 SubTotal						2	4	0
2012	Colquitt	State Route	003500	0.00	0.47	2	1	0
2012 SubTotal						2	1	0
2013	Colquitt	State Route	003500	0.00	0.47	4	1	0
2013 SubTotal						4	1	0
All Year(s)Total						8	6	0

Note: Accident data including number of accidents, injuries, and fatalities provided by GDOT Office of Traffic Safety and Design

ACCIDENT RATE CALCULATION for year(s) 2011 thru 2013

Accident Data Information System

ACCIDENT RATE CALCULATION 2011

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2011	Colquitt	State Route	003500	0.00	0.47	10,710	0.47	5,034
Total Vehicle Miles: 5034		Total Accidents: 2	Accident Rate: 109	Statewide Accident Rate: 106				
Average AADT: 10710		Total Injuries: 4	Injury Rate: 218	Statewide Injury Rate: 54				
Length In Miles: 0.47		Total Fatalities: 0	Fatality Rate: 0.00	Statewide Fatality Rate: 1.31				

NOTE: Rates are per 100 Million Vehicle Miles.

ACCIDENT RATE CALCULATION 2012

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2012	Colquitt	State Route	003500	0.00	0.47	10,760	0.47	5,057
Total Vehicle Miles: 5057		Total Accidents: 2	Accident Rate: 108	Statewide Accident Rate: 108				
Average AADT: 10760		Total Injuries: 1	Injury Rate: 54	Statewide Injury Rate: 59				
Length In Miles: 0.47		Total Fatalities: 0	Fatality Rate: 0.00	Statewide Fatality Rate: 1.38				

NOTE: Rates are per 100 Million Vehicle Miles.

ACCIDENT RATE CALCULATION 2013

Year	County	Rt Type	Route Num	Low Milelog	High Milelog	ADT	Distance	Vehicle Miles
2013	Colquitt	State Route	003500	0.00	0.47	10,760	0.47	5,057
Total Vehicle Miles: 5057		Total Accidents: 4	Accident Rate: 217	Statewide Accident Rate: N/A				
Average AADT: 10760		Total Injuries: 1	Injury Rate: 54	Statewide Injury Rate: N/A				
Length In Miles: 0.47		Total Fatalities: 0	Fatality Rate: 0.00	Statewide Fatality Rate: N/A				

NOTE: Rates are per 100 Million Vehicle Miles. Statewide values not available at the time of this report.

ATTACHMENT 5

Traffic Diagrams

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Colquitt County **OFFICE** Planning
P.I. # 0010849 **DATE** February 5, 2014

FROM Cynthia L. VanDyke, State Transportation Planning Administrator

TO Genetha Rice-Singleton, State Program Delivery Engineer
Attention: Sonja Thompson

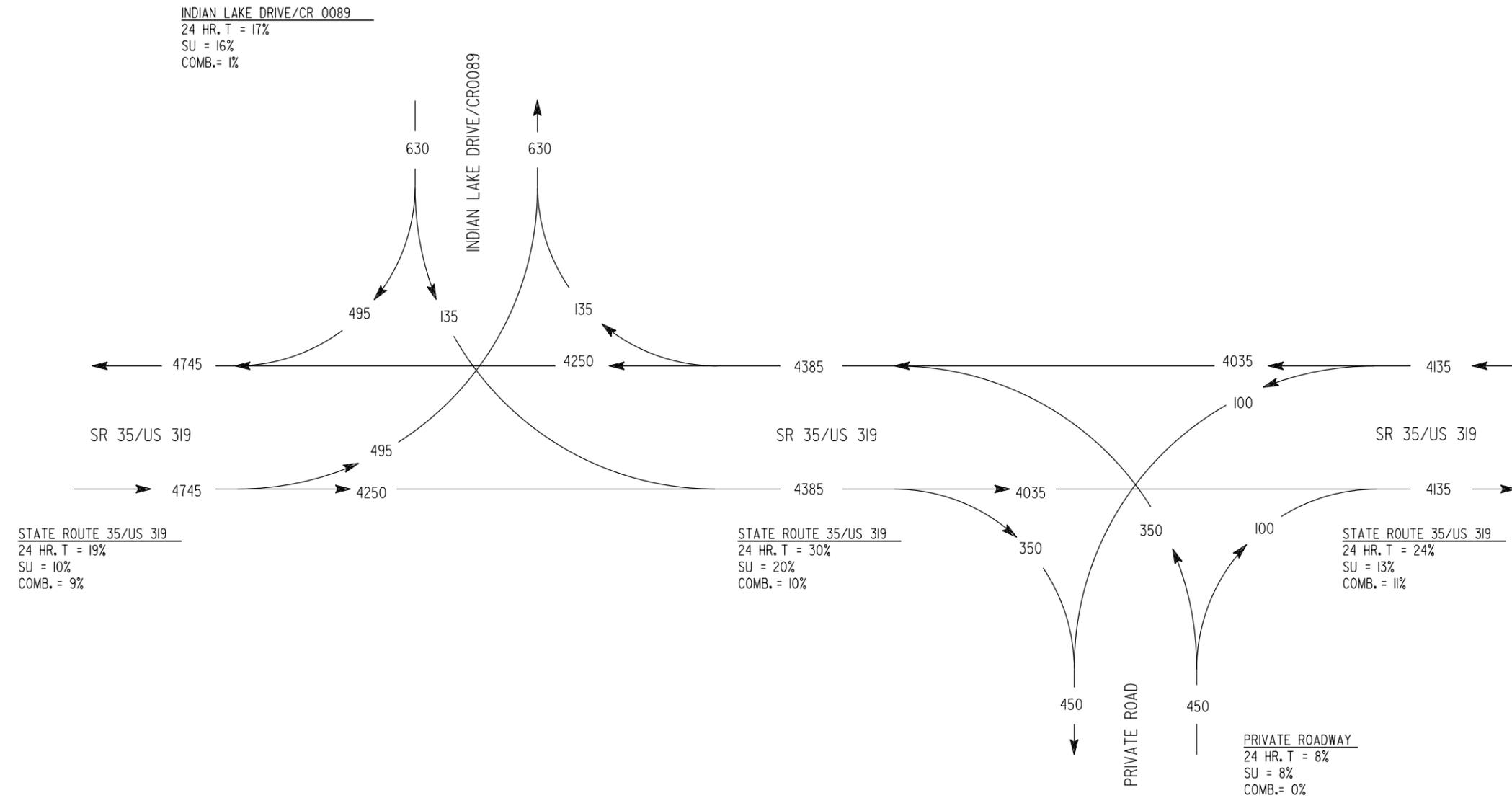
SUBJECT **Design Traffic Review** for SR 35/US 319 @ CR 89 INDIAN LAKE DRIVE.

We have reviewed the consultant's Design Traffic for the above project. The Design Traffic is approved.

If you have any questions concerning this information, please contact Rhonda Niles at (404) 631-1924.

CLV/RFN

BUILD = NO-BUILD



P.I. # 0010849
COLQUITT COUNTY
STATE ROUTE 35 AT INDIAN LAKE DRIVE
0000 - 2013 ADT

PREPARED BY: JRA

ATKINS

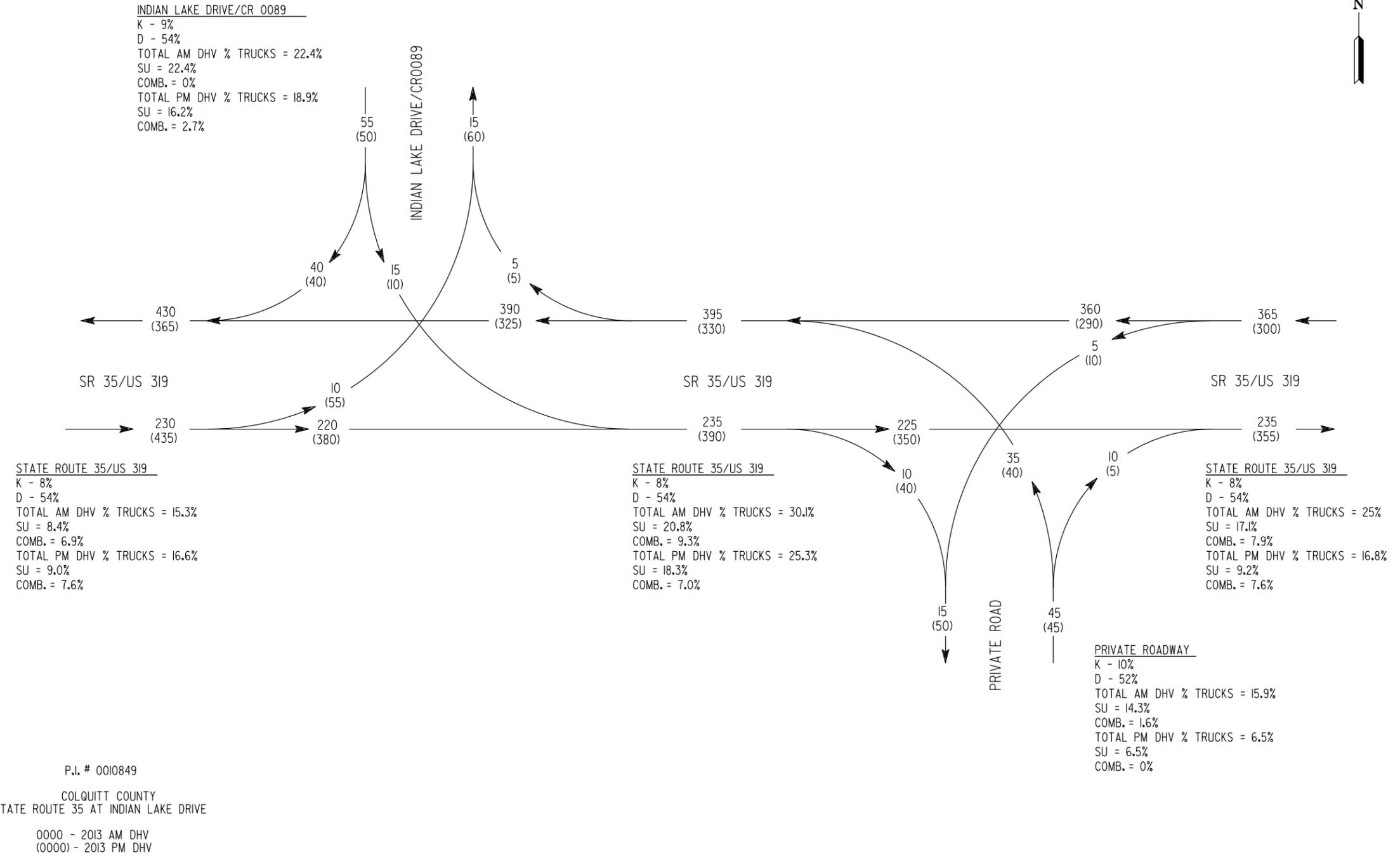
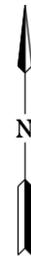
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY
TRAFFIC DIAGRAM

US 319 / SR 35

DRAWING No.
10-001

BUILD = NO-BUILD



PREPARED BY: JRA

REVISION DATES

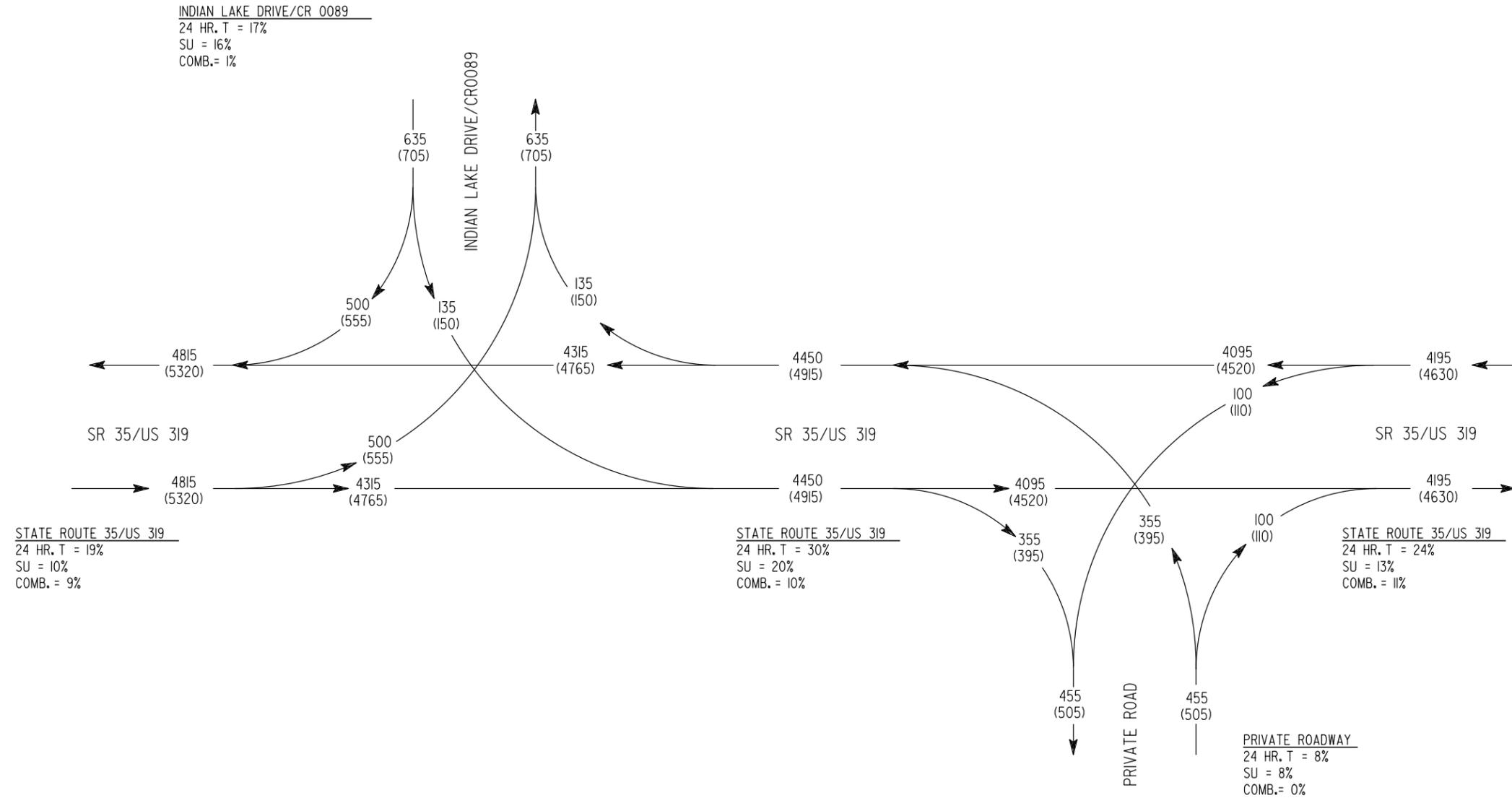
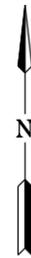
STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY
TRAFFIC DIAGRAM

US 319 / SR 35

ATKINS

DRAWING No.
10-002

BUILD = NO-BUILD



P.I. # 0010849
COLQUITT COUNTY
STATE ROUTE 35 AT INDIAN LAKE DRIVE
0000 - 2016 ADT
(0000) - 2036 ADT

PREPARED BY: JRA

ATKINS

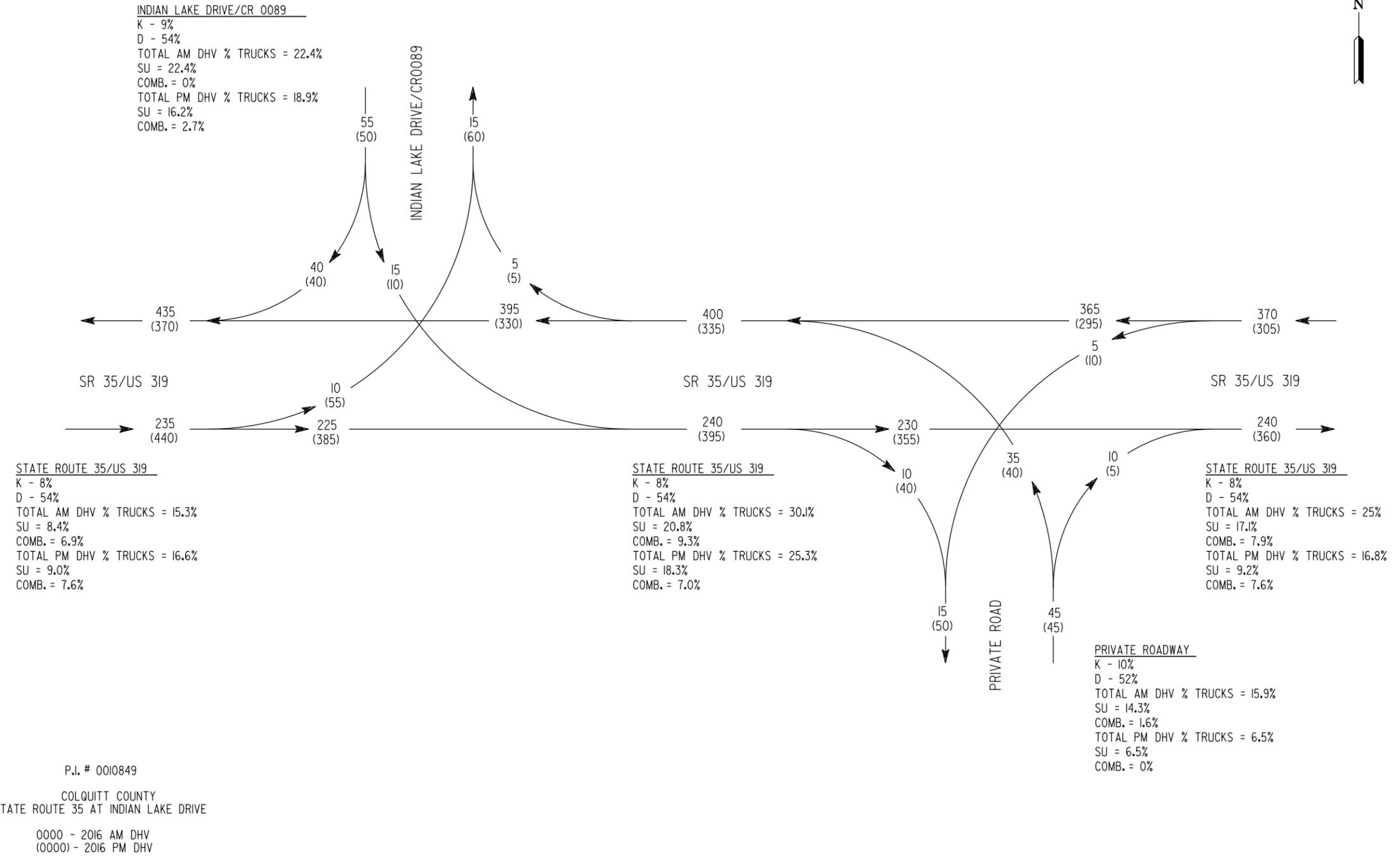
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY
TRAFFIC DIAGRAM

US 319 / SR 35

DRAWING No.
10-003

BUILD = NO-BUILD



PREPARED BY: JRA

ATKINS

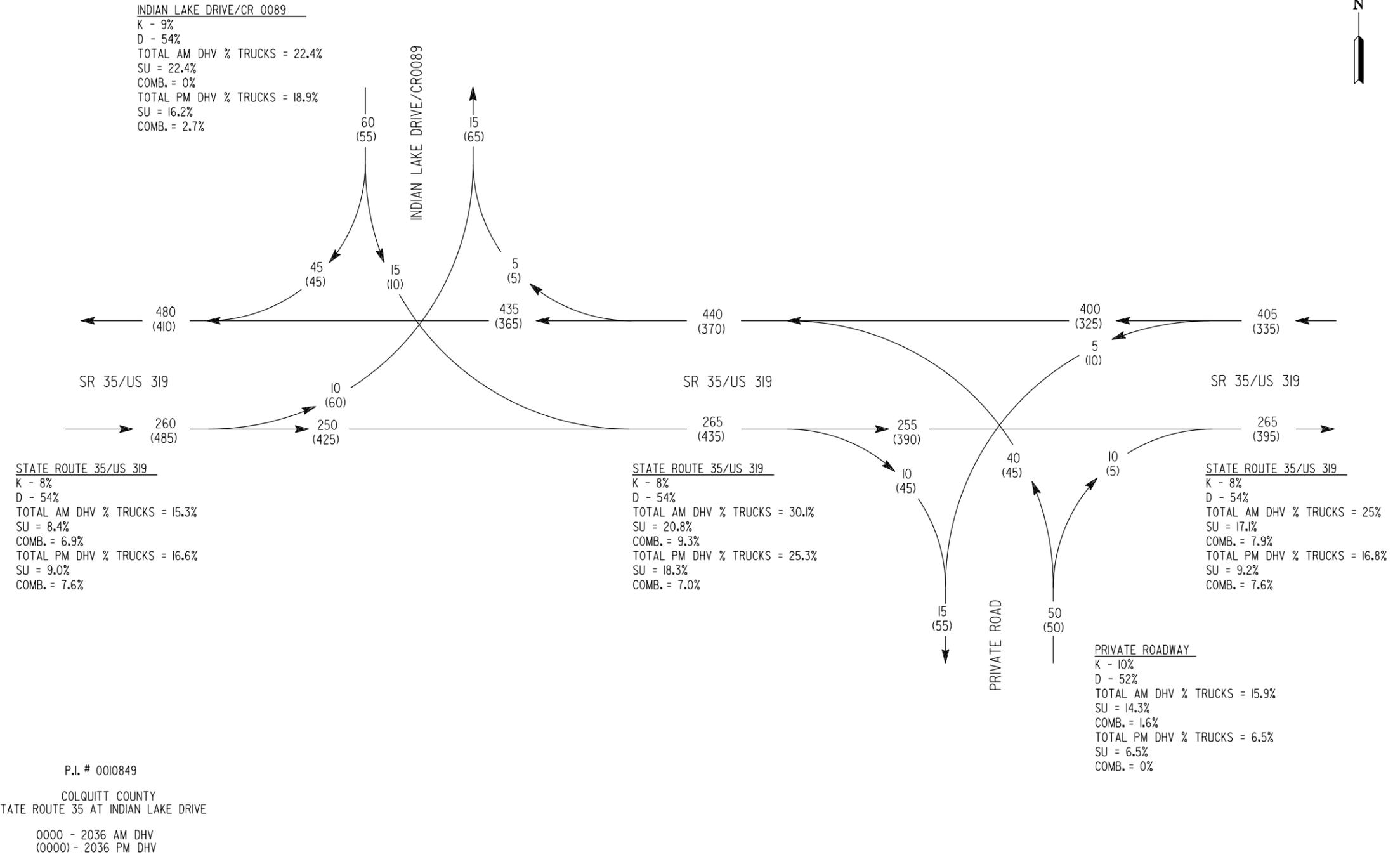
REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY
TRAFFIC DIAGRAM

US 319 / SR 35

DRAWING No.
10-004

BUILD = NO-BUILD



PREPARED BY: JRA

ATKINS

REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY
TRAFFIC DIAGRAM

US 319 / SR 35

DRAWING No.
10-005

ATTACHMENT 6

Concept Team Meeting Minutes



Meeting Minutes

US 319/SR 35 at Indian Lake Drive
Colquitt County
P.I. No. 0010849

Date: January 23, 2014

Location/Time: GDOT District 4 Office / 10:30 a.m. – 11:30 a.m.

Attendees:

Sonja Thompson	GDOT – Program Delivery
Matt Bennett	GDOT – Program Delivery
Joe Sheffield	GDOT – District 4 Engineer
Michael Atkinson	GDOT – Construction
Kim Bradford	GDOT – Right of Way
Shane Pridgen	GDOT – Planning
Brent Thomas	GDOT – District 4 Pre-Construction
Jill Franks	GDOT – Utilities-Railroad
Marcella Coll	GDOT – Utilities-Railroad
Neil Tyson	GDOT – Moultrie Area Engineer
Van Mason	GDOT – District 4 Traffic
Tim Warren	GDOT – District 4 Utilities
Darin Purvis	GDOT – District 4 Environmental
Mike Simmons	GDOT – District 4 Utilities
Gerald McDaniel	GDOT – District 4 Utilities
Roger Ruis	City of Moultrie
Charles Weathers	Colquitt County
John C. Peters, Sr.	Colquitt County
Dave Thomas	Omnitrax (GFR)
Jason Scott	Omnitrax (GFR)
Jason Kunkle	Atkins
Mike Moseley	Atkins

Minutes By: Mike Moseley

The following items were discussed at the meeting:

1. Sonja Thompson, the GDOT Project Manager, started the meeting with introductions and an overview of the project.

2. Ms. Thompson then turned the meeting over to Mike Moseley with Atkins, the consultant project manager.
3. Mr. Moseley went through a brief history of the project and key elements. The history of the project included details that this intersection improvement was once a part of the PI 0007183 project that is currently under construction. This intersection was pulled out due to lack of funding to replace the Georgia Florida Railroad on the part of the owner. Additionally, GDOT was informed after FFPR that the crossing would require a road closure. The road closure would require public involvement and was pulled from the original project so as not to delay the remaining 40+ intersections.
4. The key elements highlighted in the project overview were the partial culvert extension, lengthening of left turn to Indian Lake Drive, added right turn lane to Indian Lake Drive.
5. After the project overview the Concept Report was reviewed for comments. The following items were discussed:
 - a. Projected Traffic – Traffic projections are currently underway and will be added upon completion and approved.
 - b. Transportation Management Plan – It was determined that a TMP would be required but is most likely to be classified as Non-Significant.
 - c. Design Variances – The skew angle at the intersection of US 319/SR 35 and Indian Lake Drive was questioned as to whether a design variance would be required.
 - d. Utility Involvement – GDOT Utilities requested to add MediaCom, Georgia Power Company - Distribution and CNS Moultrie to the owners list.
 - e. Right of Way – The required R/W and easements have already been acquired as part of PI 0007183. Concept layout will be updated to show R/W as existing.
 - f. Reimbursable Utilities – Atkins will submit plans to GDOT Utilities to assist in determining the utility cost.
 - g. Alternative Discussion – It was suggested that information be filled out for the No-Build Alternative and that at least one Alternative be discussed.
 - h. Railroad – The need for the road closure was discussed with Georgia Florida Railroad (GFR). It was the Railroad's contention that stage constructing the crossing, not requiring a road closure, was not acceptable. GFR also stated the crossing would be replaced with asphalt as opposed to concrete. The two main topics discussed were the railroad signal and railroad crossing. Both of these items need to be constructed absent of traffic. GDOT expressed the benefit to the traveling public for these two items be under construction concurrently. GFR stated they will most likely need 3 to 5 days to complete the upgrades. GFR will discuss these concerns as well as the traffic interruption duration with its' upper management and return answers within a week.

- i. Detour – The detour route for the closure at GFR will need to be on State Routes. This detour will be significant. Atkins will propose a detour route and transmit to the Project Manager for review by the District and Area offices. It was suggested that Portable Changeable Message boards, as well as Workzone Law Enforcement be added to the project. The message boards will assist in informing the traveling public of the detour and the law enforcement will help to ensure truck traffic does not use local roads that cannot hold the heavy truck loading.

Attachments: Concept Team Meeting Sign-in sheet

SIGN IN SHEET

PROJECT NO.: _____
 P. I. NO.: 00010849
 COUNTY: Colquitt
 DATE: January 23, 2014
 TIME: _____

<u>NAME</u>	<u>AGENCY</u>	<u>PHONE NO.</u>
Sonja Thompson	GDOT -	(229) 529 - 5300
Michael Atkinson	GDOT - Construction	(229) 891 - 7130
Kim W. Bradford	GDOT - R/W	229 - 391 - 5475
Shane Pridgen	GDOT - Planning	229 - 386 - 3300
Brent Thomas	GDOT - Precast	229 - 386 - 3300
MIKE MOSELEY	ATKINS	
JASON KUNKLE	ATKINS	
JILL FRANKS	GDOT - UTILITIES - RAILROAD	41631-1370
MARCELA COLL	GDOT - UTILITIES - RAILROAD	404 631 - 1372
JOE W. SHEFFIELD	GDOT - TITON	229 - 386 - 3280
Roger Reis	City of Moultrie	229 - 668 - 0030
Dave Thomas	Omnitrax (GFR)	801.502.3914
JASON SCOTT	OMNITRAX GFR	303 588 0075
Neil Tyson	GDOT	
Van Mason	GDOT - District 4 - Traffic	229 - 386 - 3435
TIM HARRIS	GDOT - UTILITIES	229 - 386 - 3288
Darin G. Purvis	GDOT - ES	229 - 391 - 5440
Mike Simmons	GDOT - Utilities	229 391 - 5447
GERALD McANULTY	GDOT - UTILITIES	(229) 391 - 5447

ATTACHMENT 7

Non-Reimbursable Utility Cost Estimate

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: N/A
County: Colquitt
P.I. #: 0010849

OFFICE: Tifton
DATE: January 28, 2014

Description: **US 319/SR 35 at Indian Lake Dr./CR 89**

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

TO Sonja Thompson, 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>
CNS Moultrie	\$0.00	\$0.00	PI 0007183 Final Plans / Available Drawing
Colquitt EMC	\$0.00	\$0.00	PI 0007183 Final Plans / Available Drawing
Georgia Power Company (Distribution)	\$0.00	\$111,000.00	PI 0007183 Final Plans / Available Drawing
Mediacom	\$0.00	\$7,041.45	PI 0007183 Final Plans / Available Drawing
Windstream Communications	\$0.00	\$37,800.59	PI 0007183 Final Plans / Available Drawing
Total	\$ 0.00	\$155,842.04	

**** 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 Gene M^cDaniel, Assistant District Utilities Engineer, at (229) 391-5448.

Cc: Abdulvahid Munshi, State Utilities Office
Brent Thomas, District Preconstruction Engineer
Shannon Bradford, District Construction Estimator

ATTACHMENT 8

Email / Detour Map

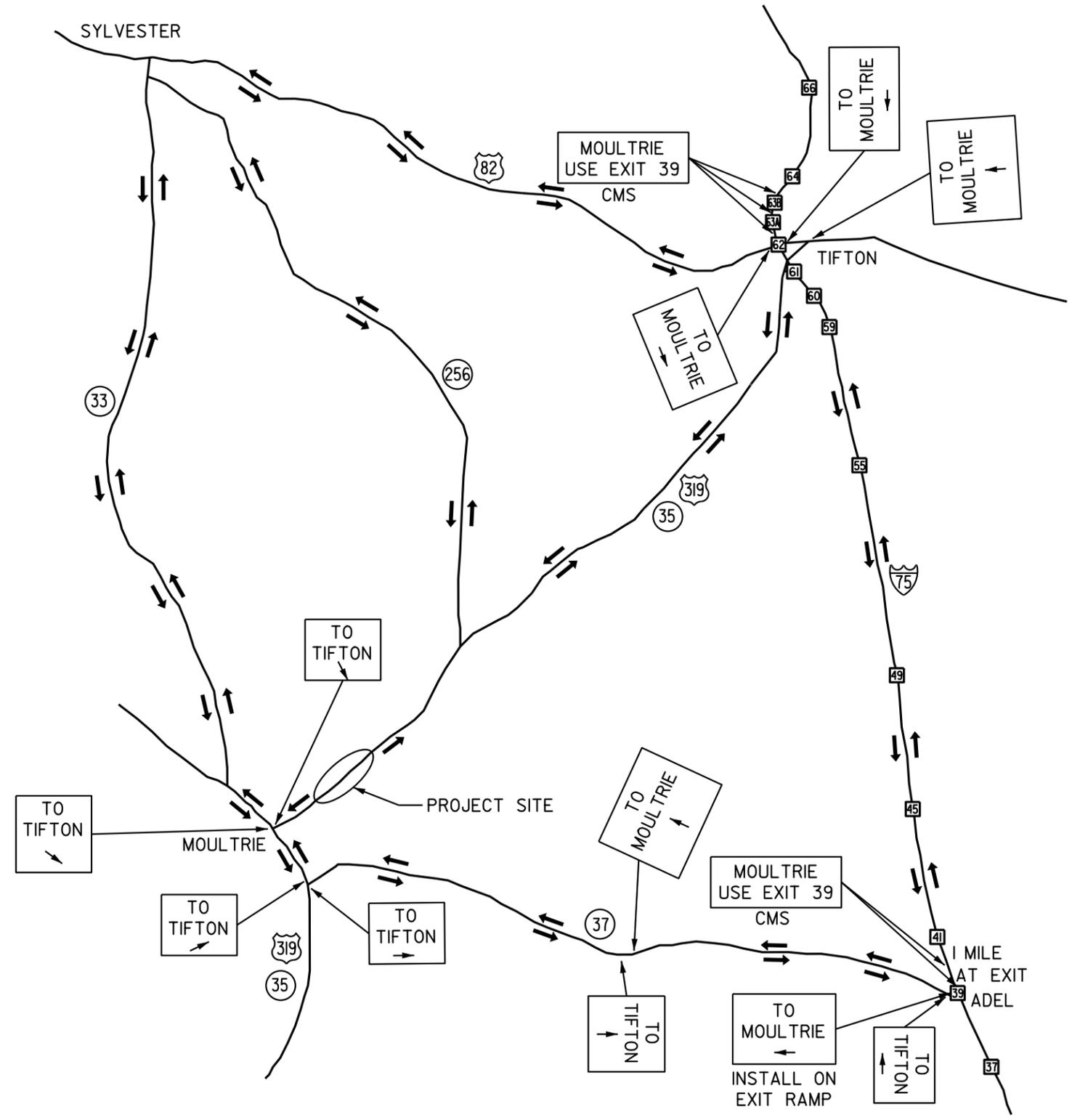
From: Craig McDaniel [<mailto:cmcdaniel@OmniTRAX.com>]
Sent: Tuesday, February 11, 2014 5:21 PM
To: Thompson, Sonja; Jason Scott
Cc: Franks, Jill L.; Coll, Marcela
Subject: RE: Concept Meeting Information

Ms. Thompson,

The time required to complete this work would be between 72 to 84 hrs. Any Questions, Please let me know.

Thank-you

William C. McDaniel
Division Roadmaster
Southern Region, OmniTRAX
1019 Coastline Avenue
Albany, GA 31705
229-435-6625 x5070



3/1/2007
GPLN

ATKINS

NO SCALE

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PROGRAM DELIVERY
DETOUR PLANS
US 319/SR 35
COLQUITT COUNTY

DRAWING No.
20-001