ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. # 0003246, 0012800, 0012801
MSL00-0003-00(246)
Troup & Meriwether Counties
GDOT District 3 - Thomaston
I-85 Widening from SR109 in Troup Co to 0.2mi
North of CR417 in Meriwether Co

OFFICE Design Policy & Support

DATE 09/11/2015

FROM for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT **APPROVED REVISED CONCEPT REPORT**

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

Attachment

DISTRIBUTION:

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
Paul Tanner, State Transportation Data Administrator
Attn: Systems & Classification Branch
Richard Cobb, Statewide Location Bureau Chief
Ed David Adams, State Safety Program Manager
Michael Presley, District Engineer
Adam Smith, District Preconstruction Engineer
Scott Parker, for District Utilities Engineer
Krystal E. Stovall Dixon, Project Manager
BOARD MEMBER - 3rd Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
REVISED PROJECT CONCEPT REPORT

Project Type:	Widening & Overlay	P.I. Number:	0003246
GDOT District:	3	County:	Troup and Meriwether
Federal Route Number:	I-85	State Route Number:	403
		Project Number:	MSL00-0003-00(246)

Original project under PI # 003246 Troup and Meriwether Counties for 14.947 miles Widening and Overlay of I-85/SR 403 from north of SR 109 in Troup County to north Forest Road/CR 417 in Meriwether County split into three separate projects to reduce construction cost to manageable construction funding for project. The three projects are; PI # 003246 Troup-3.343 mile of SR 403/I-85 from 0.257 mile north of SR 109 to 1.628 mile north of I-185, PI 0012800 Troup –5.909 mile of SR 403/-85 from 1.628 mile north of I-185 to 0.723 mile south of SR 54/SR 100 and PI 0012801 Troup and Meriwether – 5.681 mile of SR 403/I-85 from 0.723 south of SR 54/SR 100 to 0.191 mile north of Forest Road/CR 417. See Attachment 1/Location Map for the revised project limits.

Submitted for approval:

Raju K. Shah, P.E./R. K. SHAH & ASSOCIATES, INC	Revised April 27, 2015 August 8, 2014
Consultant Designer and Firm	DATE
Albert Shelby BRB	8/4/15
State Program Delivery Engineer	DATE
Adam Smith Krystal Starrall-Dixon	Revised: August 3, 2015
GDOT Project Manager	DATE

Recommendation for approval:

Hiral Patel*	08/21/2015
State Environmental Administrator	DATE
Ken Werho*	08/06/2015
for State Traffic Engineer	DATE
Ben Rabun*	08/10/2015
State Bridge Design Engineer	DATE

PI Numbers 0012800 and 0012801 are consistent with the goals outlined in the Statewide Transportation Plan (SWTIP) and/ or are included in the State Transportation Improvement Plan (STIP). PI 0003246 with its revised description and limits is not consistent with the goals outlined in the SWTP.

Cynthia Van Dyke*	08/19/2015
State Transportation Planning Administrator	DATE

* - Recommendation on file DRP

Project Justification Statement: Please see Attachment No. 2

Existing conditions: SR 403/I-85 from approximately 0.257 mile north of SR 109/Lafayette Parkway in Troup County to 0.191 mile north of Forest Road/CR 417 In Meriwether County is basically four lane (two northbound and two southbound) divided with variable width (varies from 64 ft. to 88 ft.) depressed grass median rural roadway. See Attachment 1/Location Map for the revised project limits.

Major Intersection: PI # 0003246 Troup County: SR 403/I-85 directional interchange with I-185
PI # 0012800 Troup County: None and
PI 0012801 Troup and Meriwether County: SR 403/I-85 diamond Interchange with SR 54/SR 100

Major Structure:
Existing Bridge and Bridge Culvert on I-85

Location	Over	Length Ft.	Width Ft.	# Spans	Structure I.D.	Location I.D.	Sufficiency Rating
PI # 0003246 Troup: None							
PI # 0012800 Troup:							
I-85	Shoal Creek	397	7	3	285-0068-0	285-00403D-021.55N	85.00
I-85	Beech Creek Trib	355	8	2	285-0069-0	285-00403D-023.09	85.00
Left/ I-85 SB	Beech Creek	280	42	3	285-0071-0	285-00403D-023.40N	84.97
Right/ I-85 NB	Beech Creek	280	42	3	285-0070-0	285-00403D-023.39N	84.97
Left/ I-85 SB	Flat Creek	252	42	3	285-0073-0	285-00403D-026.15N	74.02
Right/ I-85 NB	Flat Creek	252	42	3	285-0072-0	285-00403D-026.14N	74.02
PI # 0012801 Troup and Meriwether							
I-85	Blue Creek	276	9	2	199-0071-0	199-00403D-029.95N	85.00

I-85	Yellow Jacket Creek Trib	298	10	2	199-0072-0	199-00403D-31.94N	85.00

Existing Bridge Over I-85

Location I-85 M.P. #	On Road	Length	Width	# Spans	Structure I.D.	Location I.D.	Vertical Clearance
PI # 0003246 Troup							
19.62	I-185 NB Ramp	396	48	4	285-0027-0	285-00403D-019.62N	16.75
20.10	I-185 SB Ramp	547	40	4	285-0085-0	285-00403D-020.10N	18.00
PI # 0012800 Troup							
21.80	CR 412 (Wildwood/Hines Road)	340	30	4	285-0093-0	285-00403D-021.80	16.58
25.73	CR 417 (Mountville/Hogansville Road)	333	32	4	285-0086-0	285-00403D-025.73	16.67
PI # 0012801 Troup and Meriwether							
28.37	SR 54/SR 100	309	48	4	285-0029-0	285-00403D-028.37N	16.75
29.68	CR 17 (Sims Road)	428	30	4	199-0002-0	199-00017X-001.20N	16.75
30.81	CR 15 (Sewell Road)	338	30	4	199-0001-0	199-00403D-030.81N	16.50

33.13	CR 417 (Forest Road)	394	32	4	199-0064-0	199-00403D-033.13N	16.75

Bridge Inventory Report are attached- Attachment No. 10.

Major Utilities:

Cable TV- Charter Communications
Gas- City of LaGrange, City of Hogansville
Power- Georgia Power Transmission Corp. Diverse Power, Meag Power City of LaGrange
Telephone- AT &T (Bell South)
Water-City of LaGrange, City of Hogansville, Meriwether County
Sewer- City of LaGrange, City of Hogansville, Meriwether County
Traffic Control-Georgia Department of Transportation

Description of the approved concept: Inside widening of 14.947 miles of SR 403/I-85 from north of SR 109 (M. P. 18.312) in Troup County to north of Forrest Road (M.P. 33.259) in Meriwether County. When completed project will provide 3-12 ft. lanes, 14 ft. inside and outside shoulder (12 ft. paved), in each direction divided with variable width (40 ft.-64 ft.) depressed grass median. This project includes the replacement of existing Bridges over Beech Creek (Suff. Rating-77.5/HS-15Loading) and Flat Creek (Suff.Rating-77.5/HS-15Loading). The project further includes raising (Jacking) of Bridges on I-185NB, I-185SB, Hines Road, Hogansville Road, SR 54, Sims Road, Sewell Road and Forrest Road over I-85 to improve vertical clearances to minimum of 17 ft.

The project improves existing pavement cross slope of 1/8 in. /ft. (1 %) to 2.00 % using variable depth asphaltic overlay.

The project will provide one CCTV remote controlled camera per direction at each interchange.

Conditional Approval of Concept Letter Dated May 18, 2011 and Original concept Report attached- Attachment No. 6.

Federal Oversight: ☐ Full Oversight ☒ Exempt ☐ State Funded ☐ Other

Projected Traffic as shown in the approved Concept Report: ADT
For PI # 0003246 Troup and Meriwether Counties- Project Length 14.947 Miles

Open Year (2007): 55,000 Design Year (2027): 91,000

Updated Traffic: ADT
Open Year (2020): 49,300 Design Year (2040): 73,200

Functional Classification (Mainline): Rural Interstate Principal Arterial

VE Study anticipated: ☐ No ☐ Yes ☒ Completed – Date: August 10, 2005
VE Implementation Letter is attached.
Attachment No. 8.

PROPOSED REVISIONS

Approved Features:	Proposed Features:
Project termini: SR 403/I-85 from north of SR 109 (M.P. # 18.312) in Troup County to north of Forrest Road/CR 417 (M.P. # 33.259) in Meriwether County – Project length approximately 14.947 miles.	Project termini: PI 0003246 Troup: SR 403/I-85 from 0.257 mile north of SR 109/Lafayette Parkway to 1.628 mile north of I-185 in Troup County. Project length approximately 3.343 miles. PI 0012800 Troup: SR 403/I-85 from 1.628 mile north of I-185 to 0.723 mile south of SR 54/SR 100 in Troup County. Project length approximately 5.909 miles. PI 0012801 Troup and Meriwether: SR 403/I-85 from 0.723 mile south of SR 54/SR 100 in Troup county to 0.191 mile north of Forest Road in Meriwether County. Project length approximately 5.681 miles.

Reason(s) for change:

Revised Length of project from 14.947 miles to 3.343 mile to reduce construction cost to manageable construction funding for project.

Original Project No. MSL00-0003-00 (246) Troup/Meriwether Counties; P.I. # 0003246 Project length approximately 14.947 miles is now split in to:

Project No. MSL00-0003-00 (246) Troup County; P.I. # 0003246- Project length approximately 3.343 miles.

Project No. MSL00-0003-00 (246) Troup County; P.I. # 0012800 - Project length approximately 5.909 miles.

Project No. MSL00-0003-00 (246) Troup/Meriwether Counties; P.I. # 0012801- Project length approximately 5.681 miles.

Detailed Cost Estimates are attached-Attachment No. 3.

Design Variances and/or Exceptions needed: Design Variance required where depressed grassed median with a width of less than 44ft is proposed. NRP

ENVIRONMENTAL AND PERMITS

Potential environmental impacts of proposed revision: NEPA-CE document was approved October 12 2007 for widening of SR 403/I-85 from north of SR 109 (M.P. # 18.312) in Troup County to north of Forrest Road/CR 417 (M.P. # 33.259) in Meriwether County – Project length approximately 14.947

miles. -Attachment No. 7. Since approval of document significant time has lapsed hence reevaluation will be required. Further, project has been split in to three separate projects- PI 0003246 Troup, PI 0012800 Troup and PI 0012801 Troup and Meriwether.

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

Environmental responsibilities (Studies/Documents/Permits): GDOT

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

This project is exempt from conforming plan. The project is located in Troup County. Troup County is located outside the designated Non-Attainment Area.

Environmental Comments and Information:

NEPA: NEPA-CE document was approved October 12 2007. Since approval of document significant time has lapsed hence reevaluation will be required.

Ecology: The project last surveyed for Ecology in 2006. As significant time has lapsed since last survey, complete ecology resurvey will be performed. Aquatic surveys will be needed for the bridges being replaced over Beech Creek and Flat Creek. T&E surveys are not anticipated.

Archeology: The project was last surveyed for Archeology in 2006. All work is being performed within existing right of way, no additional survey will be required. However since original project is now split in to three separate projects, SHPO will be notified.

History: The project was last surveyed for History in 2006. FHWA requires a resurvey every five years. When plans become available, History resurvey will begin.

Air Quality: This project was last surveyed for Air in 2006. CO analysis for will be updated using MOVES instead of MOBILE 6.2. MAST will be updated to MOVES. May need quantitative analysis.

Noise Effects: The project was last surveyed for Noise in 2006. Noise report will be updated to comply with new regulation and requirements of 2010.

PROJECT COST AND ADDITIONAL INFORMATION:

(Costs in table below include proposed units 0012800 & 0012801)

Project PI 0003246 Troup/Meriwether/ 14.947 miles

Item	Estimated Cost	Date of Estimate	Funded By
Base Construction Cost:	$ 168,456,484.69	1/20/2015	
Engineering and Inspection:	$ 43,798,686.03	1/20/2015	
Liquid AC Adjustment:	$ 7,739,123.17	1/20/2015	
Total Construction Cost:	$ 219,994,293.88		
Right-of-Way:	$ 0.0	1/20/2015	
Utilities (reimbursable costs):	N/A	1/20/2015	
Environmental Mitigation:	N/A	1/20/2015	
TOTAL PROJECT COST:	**$ 219,994,293.88**		

Project PI 0003246 Troup/ 3.343 miles

Item	Estimated Cost	Date of Estimate	Funded By
Base Construction Cost:	$ 40,747,076.72	1/20/2015	
Engineering and Inspection:	$ 10,594,239.95	1/20/2015	
Liquid AC Adjustment:	$ 1,121,595.49	1/20/2015	
Total Construction Cost:	$ 52,462,912.16		
Right-of-Way:	$ 0.0	1/20/2015	
Utilities (reimbursable costs):	N/A	1/20/2015	
Environmental Mitigation:	N/A	1/20/2015	
TOTAL PROJECT COST:	**$ 52,462,912.16**		

Project PI 0012800 Troup/ 5.909 miles

Item	Estimated Cost	Date of Estimate	Funded By
Base Construction Cost:	$ 63,712,872.63	1/20/2015	
Engineering and Inspection:	$ 16,565,346.88	1/20/2015	
Liquid AC Adjustment:	$ 1,792,713.25	1/20/2015	
Total Construction Cost:	$ 82,070,932.76		
Right-of-Way:	$ 0.0	1/20/2015	
Utilities (reimbursable costs):	N/A	1/20/2015	
Environmental Mitigation:	N/A	1/20/2015	
TOTAL PROJECT COST:	**$ 82,070,932.76**		

Project PI 0012801 Troup and Meriwether/ 5.682 miles

Item	Estimated Cost	Date of Estimate	Funded By
Base Construction Cost:	$ 56,041,544.52	1/20/2015	
Engineering and Inspection:	$ 14,570,801.58	1/20/2015	
Liquid AC Adjustment:	$ 1,737,942.24	1/20/2015	
Total Construction Cost:	$ 72,350,288.34		
Right-of-Way:	$ 0.0	1/20/2015	
Utilities (reimbursable costs):	N/A	1/20/2015	
Environmental Mitigation:	N/A	1/20/2015	
TOTAL PROJECT COST:	**$ 72,350,288.34**		

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

Comments: GDOT Office of Materials and Testing "Preferred Recommendation" for Inside widening and overlay of existing pavement of SR 403/I-85 with Rigid Pavement is cost effective. – Attachment No. 11/Exhibit 1.

Attachments:

1. Location map
2. Project Justification Statement
3. Cost Estimates
4. Traffic Diagram
5. Typical Section
6. FHWA Conditional Approval of Original Concept and Original Concept

7. Approved NEPA-CE Document
8. Value Engineering Study Implementation Letter
9. Transportation Management Plan- Letter of Concurrence Dated April 25, 2012
10. Bridge Inventory Report
11. Response to FHWA Comments Dated November 1, 2012
12. Concept Plan

APPROVALS

Concur: _____
Director of Engineering

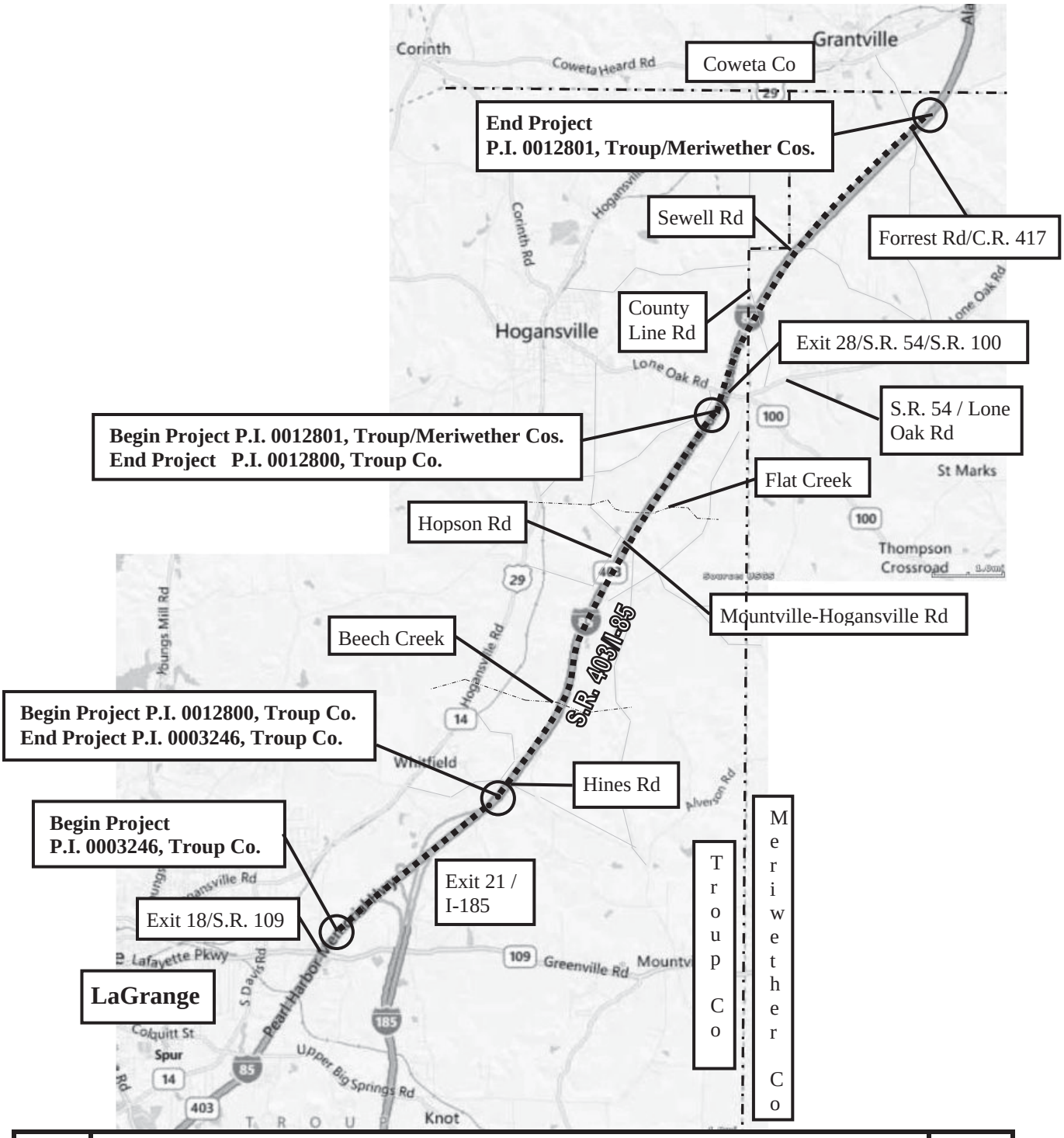
Approve: N/A - Not currently a Project of Division Interest _____ _____
Division Administrator, FHWA Date

Approve: Margaret B. Pirkle 9.3.15
Chief Engineer Date

ATTACHMENT 1

LOCATION MAP

LOCATION MAP



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N.T.S.

Project Location Map

S.R. 403/I-85 Widening & Overlay from 0.257 miles North of S.R. 109 to 0.191 miles North of C.R. 417

Project No. MSL00-0003-00(246), PI# 0003246, TROUP COUNTY
(0.257 miles North of S.R. 109 to 1.628 miles North of I-85/I-185)

Project No. MSL00-0003-00(246), PI# 0012800, TROUP COUNTY
(1.628 miles North of I-85/I-185 to 0.723 miles South of S.R. 54/S.R. 100)

Project No. MSL00-0003-00(246), PI# 0012801, TROUP and MERIWETHER COS.
(0.723 miles South of S.R. 54/S.R. 100 to 0.191 miles North of C.R. 417)

Source:
USGS

ATTACHMENT 2

PROJECT JUSTIFICATION STATEMENT

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE: PI# 0012800, PI# 0012801
Troup and Meriwether Counties

OFFICE: Planning

DATE: July 16, 2014

FROM: Cynthia L. VanDyke, State Transportation Planning Administrator

TO: Albert Shelby, State Program Delivery Engineer

Attn: Adam Smith, Project Manager

SUBJECT: **Updated Project Justification Statements** – PI# 0012800– I-85 from I-185 to SR 54/SR 100, Troup County; PI# 0012801– I-85 from SR 54/SR 100/Troup to 0.2 miles north of CR417/ Meriwether.

The Office of Planning is providing these Project Justification Statements for PI#0012800 and PI#0012801 (*with updated design traffic*) as defined in the Plan Development Process Manual. Please note, the Department's traditional crash reporting database has migrated to a new system and is not available to the Office of Planning at this time.

A revised PJS was also requested for PI#0003246, however upon reviewing newly furnished Design Traffic there is no longer a need based on capacity for PI 0003246, which is located on I-85 between SR 109 and I-185 interchange in Troup County. Based on this new information, the Planning Office will shift remaining phases on PI# 0003246 to 2051. The project will remain programmed so that it may be revisited in the future for possible transportation needs.

If any changes occur to the concept, please notify this office immediately. If you have any questions, please call C. Ryan Walker at 404-631-1793.

CLV:crw

Enclosures

Project Justification Statement
TROUP COUNTY
P.I. NO 0012800
I-85 from I-185 to SR 54/SR 100

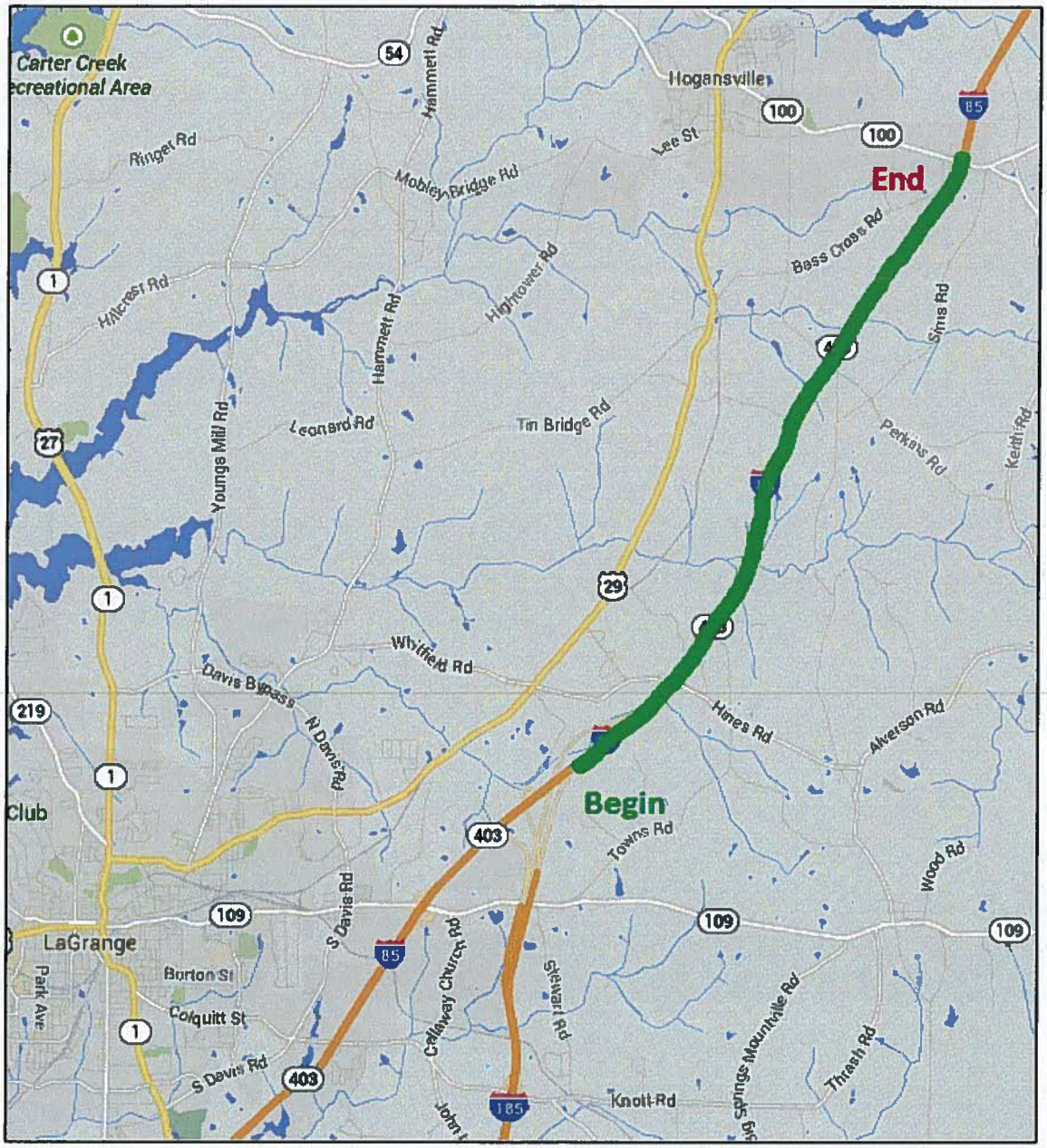
The proposed project was reprogrammed in 2013 at the request of the Office of Planning. Originally, this project was programmed in 2002 under the former PI# 0003246. This project corridor was recommended in the 2004 Georgia Interstate System Plan, the 2012 Freight & Logistics Plan, and is a designated State Freight Corridor. This 4-lane section of I-85 is located in Troup County (see map) and is functionally classified as a rural interstate principal arterial. This section of I-85 is a vital connection for the movement of people and goods in the Southeastern United States and connects Atlanta with the metropolitan areas of Columbus and Montgomery.

According to approved design traffic data the current (2014) Average Daily Traffic (ADT) on I-85 between I-185 and SR 54/SR 100 is 42,500 of which 16.5% represents truck traffic. The corridor currently operates at a Level of Service (LOS) "C". The projected future year (2040) volumes for the project are 65,700 ADT, which results in a projected LOS D. For capacity issues in rural areas the Department strives for a LOS C as an acceptable level-of-service which is currently outlined as a performance measure in the current Statewide Transportation Plan. The Department recognizes a threshold of LOS D or worse in identifying congestion. It should be noted that crash data along the I-85 corridor is not currently available. The Department's traditional crash reporting database has migrated to a new system that is not available to the Office of Planning at this time.

The southern project limit is proposed to end at the interchange with I-185. At this location, the project will also tie into another proposed widening project (PI # 0003246) on I-85 in Troup County. The proposed northern project limit is currently at the interchange of I-85 and SR 54/SR 100. At this location, the project will tie into another proposed widening project (PI # 0012801) on I-85.

The proposed project is needed to accommodate the growing traffic volumes on I-85 and improve the roadway capacity. Final determination of logical termini is dependent on the Office of Environmental Services coordination with FHWA during the development of the environmental document.

TROUP COUNTY
P.I. NO 0012800
I-85 from I-185 to SR 54/SR 100



Project Justification Statement
TROUP and MERIWETHER COUNTY
P.I. NO 0012801
I-85 from SR 54/SR 100/TROUP to
0.2 miles north of CR 417/MERIWETHER

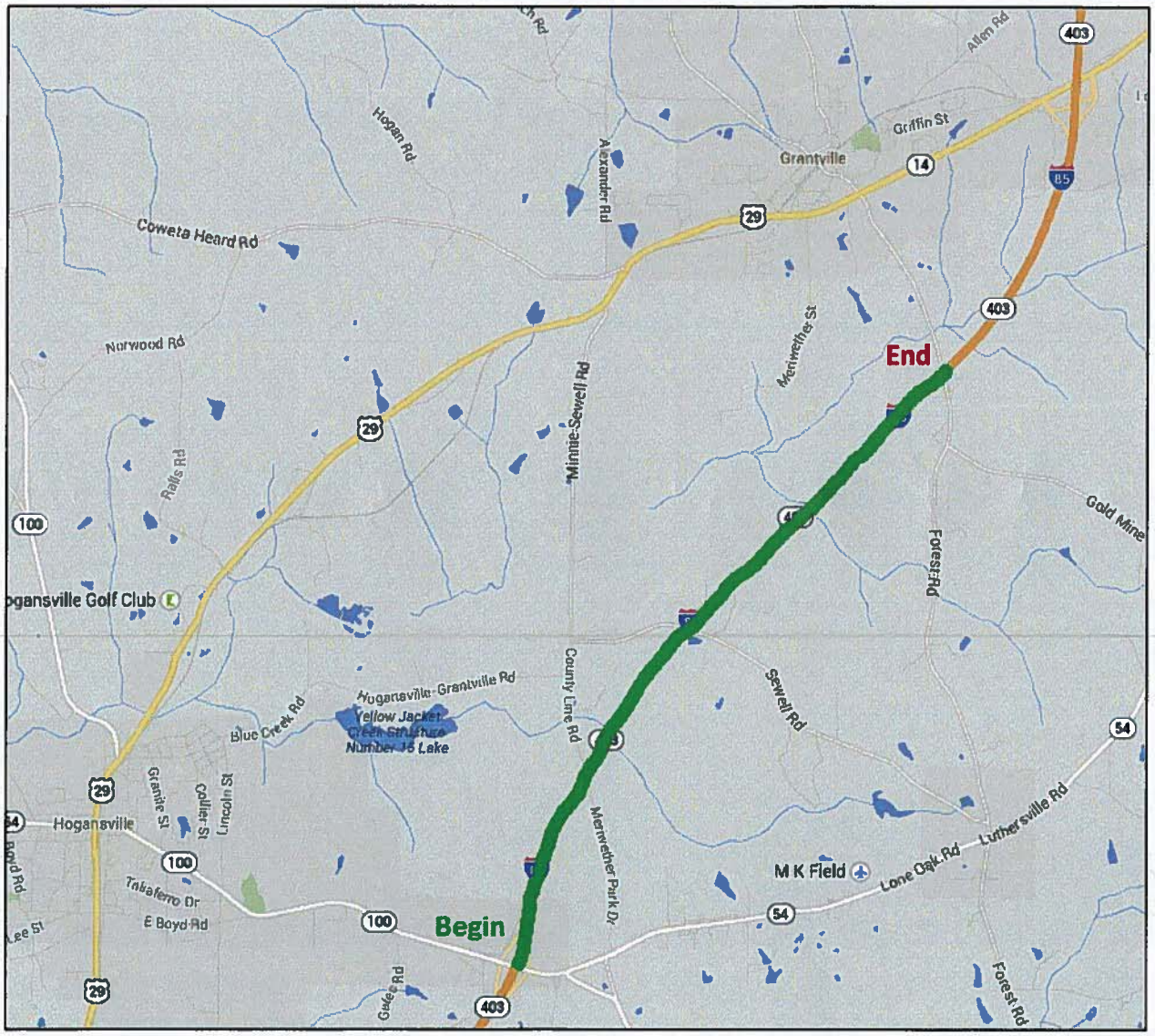
The proposed project was reprogrammed in 2013 at the request of the Office of Planning. Originally, this project was programmed in 2002 under the former PI# 0003246. This project corridor was recommended in the 2004 Georgia Interstate System Plan, the 2012 Freight & Logistics Plan, and is a designated State Freight Corridor. This 4-lane section of I-85 is located in Troup and Meriwether Counties (see map) and is functionally classified as a rural interstate principal arterial. This section of I-85 is a vital connection for the movement of people and goods in the Southeastern United States and connects Atlanta with the metropolitan areas of Columbus and Montgomery.

According to approved design traffic data the current (2014) Average Daily Traffic (ADT) on I-85 between SR 54/SR 100 in Troup County and CR 417 in Meriwether County is 42,500 of which 18.5% represents truck traffic. The corridor currently operates at a Level of Service (LOS) "C". The projected future year (2040) volumes for the project are 65,250 ADT, which results in a projected LOS D. For capacity issues in rural areas the Department strives for a LOS C as an acceptable level-of-service which is currently outlined as a performance measure in the current Statewide Transportation Plan. The Department recognizes a threshold of LOS D or worse in identifying congestion. It should be noted that crash data along the I-85 corridor is not currently available. The Department's traditional crash reporting database has migrated to a new system that is not available to the Office of Planning at this time.

The southern project limit will tie into a proposed widening project (PI # 0012800) on I-85 in Troup County at the interchange with SR 54/SR 100. The northern project limit is currently 0.2 miles north of CR 417 in Meriwether County, where the project will tie into an existing 6 lane segment of I-85 in Coweta County.

The proposed project is needed to accommodate the growing traffic volumes on I-85 and improve the roadway capacity. Final determination of logical termini is dependent on the Office of Environmental Services coordination with FHWA during the development of the environmental document.

TROUP and MERIWETHER COUNTY
P.I. NO 0012801
I-85 from SR 54/SR 100/TROUP to
0.2 miles north of CR 417/MERIWETHER



ATTACHMENT 3

COST ESTIMATES

Cost Comparison:

Original P.I. 0003246 Troup/Meriwether Cos.
(Conditionally Approved Concept)

And

P.I. 0003246 Troup Co., P.I. 0012800 Troup Co.
& P.I. 0012801 Troup/Meriwether Cos.

Project/ Length	Revised Cost for Original Concept (Conditionally Approved)	Revised Cost for PCC Option	Revised Cost for HMA Option
P.I. 0003246, Troup/Meriwether 14.952 Miles	$219,994,293.88	$206,884,133.26*	$223,193,059.14*
P.I. 0003246, Troup 3.343 Miles		$52,462,912.16	$56,644,963.81
P.I. 0012800, Troup 5.909 Miles		$82,070,932.76	$88,441,882.02
P.I. 0012801, Troup/Meriwether 5.682 Miles		$72,350,288.34	$78,106,213.31

* Note: Combined total of P.I. 0003246 Troup County, P.I. 0012800 Troup County and P.I. 0012801 Troup/Meriwether Counties

COST ESTIMATES

1. Cost Estimate - Portland Cement Concrete Option
   PROJECT: MSL00-0003-00(246)
   COUNTY: TROUP
   PI NUMBER: 0003246
   PROJECT LENGTH: 3.343 MILES

2. Cost Estimate - Hot Mix Asphalt Option
   PROJECT: MSL00-0003-00(246)
   COUNTY: TROUP
   PI NUMBER: 0003246
   PROJECT LENGTH: 3.343 MILES

3. Cost Estimate - Portland Cement Concrete Option
   PROJECT: MSL00-0003-00(246)
   COUNTY: TROUP
   PI NUMBER: 0012800
   PROJECT LENGTH: 5.909 MILES

4. Cost Estimate - Hot Mix Asphalt Option
   PROJECT: MSL00-0003-00(246)
   COUNTY: TROUP
   PI NUMBER: 0012800
   PROJECT LENGTH: 5.909 MILES

5. Cost Estimate - Portland Cement Concrete Option
   PROJECT: MSL00-0003-00(246)
   COUNTY: TROUP
   PI NUMBER: 0012801
   PROJECT LENGTH: 5.682 MILES

6. Cost Estimate - Hot Mix Asphalt Option
   PROJECT: MSL00-0003-00(246)
   COUNTY: TROUP
   PI NUMBER: 0012801
   PROJECT LENGTH: 5.682 MILES

7. Cost Estimate - Original Concept (Conditionally Approved)
   PROJECT: MSL00-0003-00(246)
   COUNTY: TROUP/MERIWETHER
   PI NUMBER: 0003246
   PROJECT LENGTH: 14.947 MILES

8. Cost Comparison Summary Table

COST ESTIMATE

PROJECT: MSL00-0003-00(246)

COUNTY: TROUP

PI NUMBER: 0003246

PROJECT LENGTH: 3.343 MILES

From Just North Of S.R. 109 To

The I-85/I-185 Interchange

Portland Cement Concrete Surfacing Option

PROJ. NO.: MSL00-0003-00(246) TROUP - PCC OPTION
P.I. NO. 0003246
DATE: 1/20/2015

Base Construction Cost		$	40,747,076.72
E & I	5%	$	2,037,353.84
Construction Contingency	20%	$	8,556,886.11
Subtotal Construction Cost		$	51,341,316.67
Liquid AC Adjustment (60 % cap)		$	1,121,595.49
Total Construction Cost		$	52,462,912.16

STATE HIGHWAY AGENCY

DATE : 01/20/2015
PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0003246_PCC SPEC YEAR: 01
DESCRIPTION: 0003246 PCC OPTION 1/3
I 85 FROM NORTH OF SR 109/TROUP TO N OF CR 417/MERIWETHER

ITEMS FOR JOB 0003246_PCC

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - MSL-0003-00(246)	1.000	4500000.00	4500000.00
0010	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	83619.18	83619.18
0015	201-1500		LS	CLEARING & GRUBBING - MSL-0003-00(246)	1.000	62100.00	62100.00
0020	205-0001		CY	UNCLASS EXCAV	22966.000	13.73	315427.68
0025	206-0002		CY	BORROW EXCAV, INCL MATL	298569.000	4.60	1373877.20
0030	212-1000		CY	GRANULAR EMBANKMENT INCL M&H	85892.000	22.33	1918810.96
0035	318-3000		TN	AGGR SURF CRS	100.000	22.04	2204.88
0040	402-1812		TN	RECYL AC LEVELING,INC BM&HL	22974.000	72.19	1658527.29
0045	402-3130		TN	RECYL AC 12.5MM SP,GP2,BM&HL	33709.000	59.26	1997893.66
0055	413-1000		GL	BITUM TACK COAT	24473.000	3.07	75171.76
0060	430-0200		SY	PLN PC CONC PVMT/CL1C/ 10" TK	264155.000	32.80	8664284.00
0065	430-0600		SY	PLN PC CONC PVMT/HES/ 10" TK	32747.000	50.00	1637350.00
0080	433-1000		SY	REINF CONC APPROACH SLAB	634.000	160.53	101780.17
0083	436-1000		LF	ASPH CONC CURB - 6"	15000.000	5.58	83821.80
0084	441-0004		SY	CONC SLOPE PAV, 4 IN	100.000	60.18	6018.63
0089	441-0301		EA	CONC SPILLWAY, TP 1	2.000	1640.63	3281.27
0090	442-0100		SY	ROLLER COMPACT CONC PVMT	217537.000	40.00	8701480.00
0094	445-0500		LF	WATERPROOFING PVMT JTS & CRACK 12"	163086.000	2.50	407715.00
0095	452-1000		CY	FULL DEPTH SLAB REPLACEMENT	440.000	93.74	41245.60
0100	461-1000		LF	RESEAL RDWAY JTS & CRACKS, TP- A	1000.000	2.47	2470.00
0105	500-3101		CY	CLASS A CONCRETE	100.000	666.13	66613.05
0110	500-3200		CY	CL B CONC	55.000	434.47	23896.20
0115	511-1000		LB	BAR REINF STEEL	682.000	1.31	895.73
0120	550-1180		LF	STM DR PIPE 18",H 1-10	11868.000	33.99	403449.46
0125	550-1240		LF	STM DR PIPE 24",H 1-10	4627.000	42.17	195149.18
0135	550-4218		EA	FLARED END SECT 18 IN, ST DR	5.000	530.28	2651.41
0140	550-4224		EA	FLARED END SECT 24 IN, ST DR	7.000	632.36	4426.56
0150	573-2006		LF	UNDDR PIPE INCL DRAIN AGGR 6"	1680.000	16.73	28109.42
0155	576-1010		LF	SLOPE DRAIN PIPE, 10 IN	245.000	34.07	8349.28
0160	577-1100		EA	METAL DR INLET - CMPLT ASSMBLY	49.000	989.48	48484.73
0165	600-0001		CY	FLOWABLE FILL	103.000	272.03	28020.11
0175	611-8040		EA	ADJUST DROP INLET TO GRADE	2.000	906.17	1812.35
0180	615-1000		LF	JACK OR BORE PIPE - 18"	424.000	198.64	84226.91
0185	615-1000		LF	JACK OR BORE PIPE - 24"	353.000	206.24	72804.39
0195	621-3125		LF	CONC BARRIER, TP 25S, MODIFIED	164.000	451.09	73978.76
0200	621-3126		LF	CONCRETE BARRIER, TP 26S	400.000	294.09	117636.00
0205	621-6001		LF	CONC BARRIER, TP S-1	1361.000	83.19	113221.59
0210	621-6002		LF	CONC BARRIER, TP S-2	13555.000	99.60	1350078.00
0215	621-6003		LF	CONC BARRIER, TP S-3	1870.000	210.90	394383.00
0220	641-1100		LF	GUARDRAIL, TP T	65.000	69.10	4491.61
0225	641-1200		LF	GUARDRAIL, TP W	10550.000	16.59	175037.90
0230	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	9.000	810.35	7293.22
0235	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	9.000	1872.80	16855.24
0240	642-0100		LF	CABLE BARRIER	350.000	17.00	5950.00

JOB ESTIMATE REPORT

0245	643-0155	LF	FIELD FENCE SPCL DESIGN	32600.000	11.72	382072.00
0250	649-0018	LF	CONCRETE GLARE SCREEN, 18 INCH	17400.000	22.82	397140.04
0255	648-1350	EA	IMPACT ATT UNIT, TP-P- 3-B-28	1.000	19506.18	19506.18
0260	668-2100	EA	DROP INLET, GP 1	179.000	1948.96	348864.94
0265	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	10.000	180.32	1803.20
0270	441-0204	SY	PLAIN CONC DITCH PAVING, 4 IN	20.000	44.51	890.32
0275	603-2182	SY	STN DUMPED RIP RAP, TP 3, 24"	81.000	49.28	3992.06
0280	603-7000	SY	PLASTIC FILTER FABRIC	81.000	3.88	314.82
0285	700-6910	AC	PERMANENT GRASSING	47.000	1008.26	47388.38
0290	700-7000	TN	AGRICULTURAL LIME	94.000	100.88	9482.88
0295	700-8000	TN	FERTILIZER MIXED GRADE	43.000	597.44	25690.34
0300	700-8100	LB	FERTILIZER NITROGEN CONTENT	2350.000	2.15	5066.29
0305	710-9000	SY	PERM SOIL REINFORCING MAT	22534.000	3.58	80859.43
0310	716-1000	SY	EROSION CONTROL MATS,WATERWAYS	20.000	2.11	42.37
0315	716-2000	SY	EROSION CONTROL MATS, SLOPES	20.000	1.65	33.06
0320	163-0232	AC	TEMPORARY GRASSING	24.000	212.21	5093.08
0325	163-0240	TN	MULCH	210.000	190.41	39986.29
0330	163-0300	EA	CONSTRUCTION EXIT	4.000	1274.78	5099.15
0335	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	10.000	323.66	3236.70
0345	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	11.000	555.17	6106.92
0350	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	181.000	122.70	22209.57
0355	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	36050.000	0.29	10559.41
0360	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	1200.000	0.80	968.40
0365	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	315.000	1.20	381.06
0375	165-0101	EA	MAINT OF CONST EXIT	4.000	524.82	2099.32
0380	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	173.000	26.48	4581.85
0385	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	223.90	447.81
0390	167-1500	MO	WATER QUALITY INSPECTIONS	36.000	486.66	17519.82
0395	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	72100.000	1.56	113041.26
0400	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	2400.000	3.12	7497.19
0405	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	2400.000	1.33	3213.60
0410	610-6510	EA	REM HWY SIGN, OVHD - 106+50,237+75L, 237+75R	3.000	578.63	1735.91
0415	610-6520	EA	REM HWY SIGN, SPCL ROADSIDE	10.000	900.50	9005.00
0420	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	65.000	15.16	985.47
0425	636-1029	SF	HWY SGN,TP2 MATL,REFL SH TP 3	328.000	15.33	5029.83
0430	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	32.000	33.84	1082.89
0435	636-1072	SF	HWY SIGNS,ALUM EXTRD PNLS, RS TP 3	1843.000	20.26	37351.88
0440	636-2070	LF	GALV STEEL POSTS, TP 7	125.000	8.87	1109.88
0445	636-2080	LF	GALV STEEL POSTS, TP 8	704.000	9.05	6373.11
0450	636-3000	LB	GALV STEEL STR SHAPE POST	3861.000	4.81	18586.55
0455	636-3010	EA	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	32.000	439.60	14067.50
0460	636-9094	LF	P-IN-PL,SIGNS,STL H,HP 12 X 53	38.000	87.72	3333.74
0465	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 76+00	1.000	76250.00	76250.00
0470	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 101+00	1.000	76250.00	76250.00
0475	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 107+00	1.000	76250.00	76250.00
0480	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 130+80	1.000	76250.00	76250.00
0485	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 237+50	1.000	76250.00	76250.00
0488	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	500.000	1.03	516.94
0489	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	500.000	0.84	422.19
0490	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	100.000	5.87	587.10

JOB ESTIMATE REPORT

0504	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	1056.000	0.43	460.60
0510	654-1001	EA	RAISED PVMT MARKERS TP 1	20.000	6.07	121.56
0515	654-1003	EA	RAISED PVMT MARKERS TP 3	1180.000	4.01	4743.26
0520	654-1007	EA	RAISED PVMT MARKERS TP 7	25000.000	9.38	234500.00
0525	657-1104	LF	PRF PL SD PVMT MKG,10",WH,TPPB	2120.000	7.03	14903.60
0530	657-2054	LM	PRF PL SD PVMT MKG,5",WH,TP PB	7.000	18570.81	129995.67
0535	657-3054	GLF	PRF PL SK PVMT MKG,5",WH,TP PB	2220.000	4.69	10411.80
0540	657-4085	GLM	PRF PL SK PVMT MKG,8",B/W,TPPB	14.000	17569.04	245966.56
0545	657-7054	LM	PRF PL SD PVMT MKG,5",YE,TP PB	7.000	18570.81	129995.67
0550	615-1200	LF	DIRECTIONAL BORE - 5"	470.000	13.34	6271.30
0555	639-4004	EA	STRAIN POLE, TP IV	2.000	7246.37	14492.75
0560	647-2130	EA	PULL BOX, PB-3	16.000	60.00	960.00
0565	647-2140	EA	PULL BOX, PB-4	16.000	805.00	12880.00
0570	682-6120	LF	CONDUIT, RIGID, 2 IN	12650.000	11.33	143431.90
0575	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	12650.000	3.55	44907.88
0580	682-6520	LF	CONDUIT, FIBERGLASS, 2 IN	1150.000	26.64	30636.00
0585	682-9010	EA	SVC POLE RISER	2.000	3233.99	6468.00
0590	682-9023	EA	ELEC JCT BX,GALVANIZED, SIZE -	4.000	205.00	820.00
0595	935-1111	LF	OUT PLANT FBR OPTC CBL,LOOSE TB,SM,6 FBR	2550.000	1.36	3468.00
0600	935-1115	LF	OUT PLNT FBR OPT CBL,LOOSE TB,SM,48 FBR	13300.000	2.57	34231.81
0605	935-3405	EA	FBR OPTIC CLOSURE,FDC(RACK MTD),48 FBR	2.000	2100.00	4200.00
0610	935-5050	EA	FIBER OPTIC PATCH CORD, SM	2.000	88.78	177.56
0615	936-1001	EA	CCTV SYSTEM,TYPE B	2.000	6392.17	12784.34
0620	936-8000	LS	TESTING	1.000	4143.07	4143.07
0625	936-8500	LS	TRAINING	1.000	2959.33	2959.33
0630	939-1190	EA	VIDEO ENCODER, TYPE A	2.000	6510.54	13021.08
0635	939-1195	EA	VIDEO DECODER, TYPE A	2.000	6510.54	13021.08
0640	939-1355	EA	DSL MODEM	2.000	2663.41	5326.82
0645	939-1360	EA	FIELD PC	2.000	20123.48	40246.96
0650	939-2300	EA	FIELD SWITCH, TYPE A	2.000	4261.45	8522.90
0655	939-4050	EA	TYPE E CABINET	2.000	5681.93	11363.86
0660	939-5010	EA	ELEC PWR SVC ASSEMBLY,AERIAL SVC POINT	1.000	3551.21	3551.21
0665	150-5010	EA	TRAF CTRL,PORTABLE IMPACT ATTN	14.000	7703.96	107855.52
0670	310-1101	TN	GR AGGR BASE CRS, INCL MATL	1670.000	25.87	43207.29
0675	318-3000	TN	AGGR SURF CRS	8850.000	16.14	142927.15
0680	402-1812	TN	RECYL AC LEVELING,INC BM&HL	1710.000	83.75	143213.94
0685	402-3121	TN	RECYL AC 25MM SP,GP1/2,BM&HL	810.000	76.62	62068.19
0689	402-3130	TN	RECYL AC 12.5MM SP,GP2,BM&HL	5488.000	75.72	415552.29
0690	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	410.000	90.60	37149.38
0695	413-1000	GL	BITUM TACK COAT	450.000	5.77	2600.96
0700	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	6500.000	4.08	26558.48
0705	550-1120	LF	STM DR PIPE, 12", H 1-10	288.000	7.00	2016.00
0710	620-0100	LF	TEMP BARRIER, METHOD NO. 1	47000.000	22.95	1078741.65
0715	668-2100	EA	DROP INLET, GP 1	8.000	1962.35	15698.81
0720	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0725	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0730	518-1000	LS	RAISE EXISTING BRIDGE, STA - 143+66.94	1.000	235000.00	235000.00
0735	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0740	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45

JOB ESTIMATE REPORT

0745	518-1000	LS	RAISE EXISTING BRIDGE, STA - 164+02.26	1.000	235000.00	235000.00
ITEM TOTAL						40747076.67
INFLATED ITEM TOTAL						40747076.67

TOTALS FOR JOB 0003246_PCC

ESTIMATED COST:	40747076.72
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	40747076.72

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP - PCC OPTION	CALL NO.	
P.I. NO.	0003246		
DATE	1/20/2015		

INDEX (TYPE)	**DATE**	**INDEX**
REG. UNLEADED	Jan-15	
DIESEL		
LIQUID AC		$ 556.00

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)			**$ 1,085,884.68**	**$ 1,085,884.68**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			3255.05	

ASPHALT	**Tons**	**%AC**	**AC ton**
Leveling	24684	5.0%	1234.2
12.5 OGFC	0	5.0%	0
12.5 mm	39197	5.0%	1959.85
9.5 mm SP	0	5.0%	0
25 mm SP	810	5.0%	40.5
19 mm SP	410	5.0%	20.5
	65101		**3255.05**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$ 35,710.81**	**$ 35,710.81**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			107.0468003	

Bitum Tack Gals	gals/ton	tons
24923	232.8234	107.0468

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP - PCC OPTION	CALL NO.	
P.I. NO.	0003246		
DATE	1/20/2015		

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	889.60	
Monthly Asphalt Cement Price month project let (APL)			$	556.00	
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	**$**	**1,121,595.49**

COST ESTIMATE

PROJECT: MSL00-0003-00(246)

COUNTY: TROUP

PI NUMBER: 0003246

PROJECT LENGTH: 3.343 MILES

From Just North Of S.R. 109 To

The I-85/I-185 Interchange

Hot Mix Asphalt Surfacing Option

PROJ. NO.: MSL00-0003-00(246) TROUP - HMA OPTION
P.I. NO. 0003246
DATE: 1/20/2015

Base Construction Cost		$	42,043,271.92
E & I	5%	$	2,102,163.60
Construction Contingency	20%	$	8,829,087.10
Subtotal Construction Cost		$	52,974,522.62
Liquid AC Adjustment (60 % cap)		$	3,670,441.19
Total Construction Cost		$	56,644,963.81

JOB ESTIMATE REPORT

JOB NUMBER : 0003246_HMA SPEC YEAR: 01
DESCRIPTION: 0003246 HMA OPTION 1/3
I 85 FROM NORTH OF SR 109/TROUP TO N OF CR 417/MERIWETHER

ITEMS FOR JOB 0003246_HMA

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - MSL-0003-00(246)	1.000	4500000.00	4500000.00
0010	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	83619.18	83619.18
0015	201-1500		LS	CLEARING & GRUBBING - MSL-0003-00(246)	1.000	62100.00	62100.00
0020	205-0001		CY	UNCLASS EXCAV	22966.000	13.73	315427.68
0025	206-0002		CY	BORROW EXCAV, INCL MATL	298569.000	4.60	1373877.20
0030	212-1000		CY	GRANULAR EMBANKMENT INCL M&H	85892.000	25.76	2213122.48
0035	318-3000		TN	AGGR SURF CRS	100.000	22.04	2204.88
0037	400-3205		TN	ASPH CONC 12.5MM OGFC,GP2,BMHL	20413.000	85.00	1735105.00
0038	400-3604		TN	ASPH CONC 12.5 MM SMA,GP2,INCL P-MBM&HL	32661.000	120.00	3919320.00
0039	400-3624		TN	ASPH CONC 12.5 MM PEM,GP2,INCL P-MBM&HL	20413.000	90.97	1857127.38
0040	402-1812		TN	RECYL AC LEVELING,INC BM&HL	22974.000	65.85	1512855.82
0044	402-3130		TN	RECYL AC 12.5MM SP,GP2,BM&HL	167.000	73.87	12337.14
0045	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	65321.000	58.02	3790202.69
0050	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	45525.000	59.57	2712230.18
0055	413-1000		GL	BITUM TACK COAT	47959.000	2.08	99795.96
0080	433-1000		SY	REINF CONC APPROACH SLAB	634.000	160.53	101780.17
0083	436-1000		LF	ASPH CONC CURB - 6"	15000.000	6.15	92255.55
0084	441-0004		SY	CONC SLOPE PAV, 4 IN	100.000	60.18	6018.63
0089	441-0301		EA	CONC SPILLWAY, TP 1	2.000	1519.88	3039.77
0090	442-0100		SY	ROLLER COMPACT CONC PVMT	217537.000	40.00	8701480.00
0094	445-0500		LF	WATERPROOFING PVMT JTS & CRACK 12"	163086.000	2.50	407715.00
0095	452-1000		CY	FULL DEPTH SLAB REPLACEMENT	440.000	93.74	41245.60
0100	461-1000		LF	RESEAL RDWAY JTS & CRACKS, TP- A	1000.000	2.47	2470.00
0105	500-3101		CY	CLASS A CONCRETE	100.000	782.58	78258.58
0110	500-3200		CY	CL B CONC	55.000	434.47	23896.20
0115	511-1000		LB	BAR REINF STEEL	682.000	1.29	880.76
0120	550-1180		LF	STM DR PIPE 18",H 1-10	11868.000	34.76	412601.23
0125	550-1240		LF	STM DR PIPE 24",H 1-10	4627.000	42.17	195149.18
0135	550-4218		EA	FLARED END SECT 18 IN, ST DR	5.000	530.28	2651.41
0140	550-4224		EA	FLARED END SECT 24 IN, ST DR	7.000	632.36	4426.56
0150	573-2006		LF	UNDDR PIPE INCL DRAIN AGGR 6"	1680.000	16.73	28109.42
0155	576-1010		LF	SLOPE DRAIN PIPE, 10 IN	245.000	34.07	8349.28
0160	577-1100		EA	METAL DR INLET - CMPLT ASSMBLY	49.000	989.48	48484.73
0165	600-0001		CY	FLOWABLE FILL	103.000	239.89	24709.58
0175	611-8040		EA	ADJUST DROP INLET TO GRADE	2.000	906.17	1812.35
0180	615-1000		LF	JACK OR BORE PIPE - 18"	424.000	155.03	65733.95
0185	615-1000		LF	JACK OR BORE PIPE - 24"	353.000	160.96	56819.37
0195	621-3125		LF	CONC BARRIER, TP 25S, MODIFIED	164.000	451.09	73978.76
0200	621-3126		LF	CONCRETE BARRIER, TP 26S	400.000	294.09	117636.00
0205	621-6001		LF	CONC BARRIER, TP S-1	1361.000	83.19	113221.59

JOB ESTIMATE REPORT

0210	621-6002	LF	CONC BARRIER, TP S-2	13555.000	99.60	1350078.00
0215	621-6003	LF	CONC BARRIER, TP S-3	1870.000	210.90	394383.00
0220	641-1100	LF	GUARDRAIL, TP T	65.000	66.98	4354.09
0225	641-1200	LF	GUARDRAIL, TP W	10550.000	15.92	167996.72
0230	641-5001	EA	GUARDRAIL ANCHORAGE, TP 1	9.000	844.39	7599.53
0235	641-5012	EA	GUARDRAIL ANCHORAGE, TP 12	9.000	2046.09	18414.86
0240	642-0100	LF	CABLE BARRIER	350.000	17.00	5950.00
0245	643-0155	LF	FIELD FENCE SPCL DESIGN	32600.000	11.72	382072.00
0250	649-0018	LF	CONCRETE GLARE SCREEN, 18 INCH	17400.000	22.82	397140.04
0255	648-1350	EA	IMPACT ATT UNIT, TP-P- 3-B-28	1.000	19506.18	19506.18
0260	668-2100	EA	DROP INLET, GP 1	179.000	1601.73	286710.72
0265	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	10.000	171.36	1713.63
0270	441-0204	SY	PLAIN CONC DITCH PAVING, 4 IN	20.000	44.51	890.32
0275	603-2182	SY	STN DUMPED RIP RAP, TP 3, 24"	81.000	49.28	3992.06
0280	603-7000	SY	PLASTIC FILTER FABRIC	81.000	3.88	314.82
0285	700-6910	AC	PERMANENT GRASSING	47.000	901.75	42382.66
0290	700-7000	TN	AGRICULTURAL LIME	94.000	73.93	6950.13
0295	700-8000	TN	FERTILIZER MIXED GRADE	43.000	597.44	25690.34
0300	700-8100	LB	FERTILIZER NITROGEN CONTENT	2350.000	1.93	4557.71
0305	710-9000	SY	PERM SOIL REINFORCING MAT	22534.000	3.58	80859.43
0310	716-1000	SY	EROSION CONTROL MATS,WATERWAYS	20.000	2.11	42.37
0315	716-2000	SY	EROSION CONTROL MATS, SLOPES	20.000	1.65	33.06
0320	163-0232	AC	TEMPORARY GRASSING	24.000	212.21	5093.08
0325	163-0240	TN	MULCH	210.000	190.41	39986.29
0330	163-0300	EA	CONSTRUCTION EXIT	4.000	1274.78	5099.15
0335	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	10.000	286.66	2866.70
0345	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	11.000	555.17	6106.92
0350	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	181.000	122.70	22209.57
0355	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	36050.000	0.29	10559.41
0360	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	1200.000	0.80	968.40
0365	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	315.000	2.03	642.33
0375	165-0101	EA	MAINT OF CONST EXIT	4.000	569.89	2279.56
0380	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	173.000	30.99	5362.94
0385	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	223.90	447.81
0390	167-1500	MO	WATER QUALITY INSPECTIONS	36.000	481.70	17341.41
0395	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	72100.000	1.56	113041.26
0400	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	2400.000	3.19	7663.13
0405	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	2400.000	1.33	3213.60
0410	610-6510	EA	REM HWY SIGN, OVHD - 106+50,237+75L, 237+75R	3.000	578.63	1735.91
0415	610-6520	EA	REM HWY SIGN, SPCL ROADSIDE	10.000	900.50	9005.00
0420	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	65.000	14.51	943.35
0425	636-1029	SF	HWY SGN,TP2 MATL,REFL SH TP 3	328.000	15.33	5029.83
0430	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	32.000	33.84	1082.89
0435	636-1072	SF	HWY SIGNS,ALUM EXTRD PNLS, RS TP 3	1843.000	23.87	44004.83
0440	636-2070	LF	GALV STEEL POSTS, TP 7	125.000	7.32	915.64
0445	636-2080	LF	GALV STEEL POSTS, TP 8	704.000	8.83	6217.54
0450	636-3000	LB	GALV STEEL STR SHAPE POST	3861.000	4.81	18586.55
0455	636-3010	EA	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	32.000	432.16	13829.42
0460	636-9094	LF	P-IN-PL,SIGNS,STL H,HP 12 X 53	38.000	87.72	3333.74
0465	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 76+00	1.000	76250.00	76250.00

JOB ESTIMATE REPORT

0470	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 101+00	1.000	76250.00	76250.00
0475	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 107+00	1.000	76250.00	76250.00
0480	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 130+80	1.000	76250.00	76250.00
0485	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 237+50	1.000	76250.00	76250.00
0490	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	100.000	6.36	636.72
0494	653-1810	LF	THER SLD TRAF STRIPE, 10 IN, W	2080.000	1.84	3835.50
0495	653-2501	LM	THERMO SOLID TRAF ST, 5 IN, WH	7.000	1627.41	11391.88
0500	653-2502	LM	THERMO SOLID TRAF ST, 5 IN YE	7.000	1625.50	11378.52
0505	653-4501	GLM	THERMO SKIP TRAF ST, 5 IN, WHI	15.000	1074.84	16122.60
0510	654-1001	EA	RAISED PVMT MARKERS TP 1	20.000	5.20	104.18
0515	654-1003	EA	RAISED PVMT MARKERS TP 3	1180.000	3.17	3746.88
0520	654-1007	EA	RAISED PVMT MARKERS TP 7	25000.000	9.38	234500.00
0550	615-1200	LF	DIRECTIONAL BORE - 5"	2120.000	11.56	24521.76
0555	639-4004	EA	STRAIN POLE, TP IV	2.000	7246.37	14492.75
0560	647-2130	EA	PULL BOX, PB-3	16.000	60.00	960.00
0565	647-2140	EA	PULL BOX, PB-4	16.000	805.00	12880.00
0570	682-6120	LF	CONDUIT, RIGID, 2 IN	12650.000	9.69	122611.14
0575	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	12650.000	3.55	44907.88
0580	682-6520	LF	CONDUIT, FIBERGLASS, 2 IN	1150.000	26.64	30636.00
0585	682-9010	EA	SVC POLE RISER	2.000	3233.99	6468.00
0590	682-9023	EA	ELEC JCT BX,GALVANIZED, SIZE -	4.000	205.00	820.00
0595	935-1111	LF	OUT PLANT FBR OPTC CBL,LOOSE TB,SM,6 FBR	2550.000	1.36	3468.00
0600	935-1115	LF	OUT PLNT FBR OPT CBL,LOOSE TB,SM,48 FBR	13300.000	2.57	34231.81
0605	935-3405	EA	FBR OPTIC CLOSURE,FDC(RACK MTD),48 FBR	2.000	2100.00	4200.00
0610	935-5050	EA	FIBER OPTIC PATCH CORD, SM	2.000	88.78	177.56
0615	936-1001	EA	CCTV SYSTEM,TYPE B	2.000	6392.17	12784.34
0620	936-8000	LS	TESTING	1.000	4143.07	4143.07
0625	936-8500	LS	TRAINING	1.000	2959.33	2959.33
0630	939-1190	EA	VIDEO ENCODER, TYPE A	2.000	6510.54	13021.08
0635	939-1195	EA	VIDEO DECODER, TYPE A	2.000	6510.54	13021.08
0640	939-1355	EA	DSL MODEM	2.000	2663.41	5326.82
0645	939-1360	EA	FIELD PC	2.000	20123.48	40246.96
0650	939-2300	EA	FIELD SWITCH, TYPE A	2.000	4261.45	8522.90
0655	939-4050	EA	TYPE E CABINET	2.000	5681.93	11363.86
0660	939-5010	EA	ELEC PWR SVC ASSEMBLY,AERIAL SVC POINT	1.000	3551.21	3551.21
0665	150-5010	EA	TRAF CTRL,PORTABLE IMPACT ATTN	14.000	7943.69	111211.79
0670	310-1101	TN	GR AGGR BASE CRS, INCL MATL	1670.000	26.00	43432.39
0675	318-3000	TN	AGGR SURF CRS	8850.000	16.14	142927.15
0680	402-1812	TN	RECYL AC LEVELING,INC BM&HL	1710.000	76.39	130635.19
0685	402-3121	TN	RECYL AC 25MM SP,GP1/2,BM&HL	810.000	78.01	63189.53
0689	402-3130	TN	RECYL AC 12.5MM SP,GP2,BM&HL	5488.000	75.72	415552.29
0690	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	410.000	84.07	34470.29
0695	413-1000	GL	BITUM TACK COAT	450.000	4.35	1959.89
0700	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	6500.000	3.33	21645.52
0705	550-1120	LF	STM DR PIPE, 12", H 1-10	288.000	7.00	2016.00
0710	620-0100	LF	TEMP BARRIER, METHOD NO. 1	47000.000	22.79	1071331.63
0715	668-2100	EA	DROP INLET, GP 1	8.000	1750.88	14007.07
0720	500-3101	CY	CLASS A CONCRETE	50.000	809.89	40494.73
0725	511-1000	LB	BAR REINF STEEL	5000.000	1.03	5187.35

JOB ESTIMATE REPORT

0730	518-1000	LS	RAISE EXISTING BRIDGE, STA - 143+66.94	1.000	235000.00	235000.00
0735	500-3101	CY	CLASS A CONCRETE	50.000	809.89	40494.73
0740	511-1000	LB	BAR REINF STEEL	5000.000	1.03	5187.35
0745	518-1000	LS	RAISE EXISTING BRIDGE, STA - 164+02.26	1.000	235000.00	235000.00

ITEM TOTAL	42043271.93
INFLATED ITEM TOTAL	42043271.92

TOTALS FOR JOB 0003246_HMA

ESTIMATED COST:	42043271.92
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	42043271.92

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP - HMA OPTION	CALL NO.
P.I. NO.	0003246	
DATE	1/20/2015	

INDEX (TYPE)	**DATE**	**INDEX**
REG. UNLEADED	Jan-15	
DIESEL		
LIQUID AC		$ 556.00

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)			**$ 3,601,078.56**	**$ 3,601,078.56**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			10794.6	

ASPHALT	**Tons**	**%AC**	**AC ton**
Leveling	24684	5.0%	1234.2
12.5 OGFC	73487	5.0%	3674.35
12.5 mm	5655	5.0%	282.75
9.5 mm SP	0	5.0%	0
25 mm SP	810	5.0%	40.5
19 mm SP	111256	5.0%	5562.8
	215892		**10794.6**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$ 69,362.63**	**$ 69,362.63**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			207.9215405	

Bitum Tack Gals	gals/ton	tons
48409	232.8234	207.921541

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP - HMA OPTION	CALL NO.	
P.I. NO.	0003246		
DATE	1/20/2015		

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	889.60	
Monthly Asphalt Cement Price month project let (APL)			$	556.00	
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	**$**	**3,670,441.19**

COST ESTIMATE

PROJECT: MSL00-0003-00(246)

COUNTY: TROUP

PI NUMBER: 0012800

PROJECT LENGTH: 5.909 MILES

From The I-85/I-185 Interchange

To S.R. 54/S.R. 100

Portland Cement Concrete Surfacing Option

PROJ. NO.: MSL00-0003-00(246) TROUP - PCC OPTION
P.I. NO. 0012800
DATE: 1/20/2015

Base Construction Cost		$	63,712,872.63
E & I	5%	$	3,185,643.63
Construction Contingency	20%	$	13,379,703.25
Subtotal Construction Cost		$	80,278,219.51
Liquid AC Adjustment (60 % cap)		$	1,792,713.25
Total Construction Cost		$	82,070,932.76

STATE HIGHWAY AGENCY

DATE : 01/20/2015
PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0012800_PCC SPEC YEAR: 01
DESCRIPTION: 0012800 PCC OPTION 2/3
I 85 FROM NORTH OF SR 109/TROUP TO N OF CR 417/MERIWETHER

ITEMS FOR JOB 0012800_PCC

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - MSL-0003-00(246)	1.000	8500000.00	8500000.00
0010	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	83619.18	83619.18
0015	201-1500		LS	CLEARING & GRUBBING - MSL-0003-00(246)	1.000	109650.00	109650.00
0020	205-0001		CY	UNCLASS EXCAV	39940.000	12.15	485449.13
0025	206-0002		CY	BORROW EXCAV, INCL MATL	519250.000	4.60	2389349.65
0030	212-1000		CY	GRANULAR EMBANKMENT INCL M&H	131040.000	21.51	2819675.48
0035	318-3000		TN	AGGR SURF CRS	200.000	21.01	4202.51
0040	402-1812		TN	RECYL AC LEVELING,INC BM&HL	39487.000	69.99	2763709.35
0045	402-3130		TN	RECYL AC 12.5MM SP,GP2,BM&HL	49594.000	56.25	2790145.55
0055	413-1000		GL	BITUM TACK COAT	52585.000	2.72	143112.71
0060	430-0200		SY	PLN PC CONC PVMT/CL1C/ 10" TK	430000.000	32.80	14104000.00
0065	430-0600		SY	PLN PC CONC PVMT/HES/ 10" TK	16491.000	50.00	824550.00
0080	433-1000		SY	REINF CONC APPROACH SLAB	2736.000	160.53	439227.97
0083	436-1000		LF	ASPH CONC CURB - 6"	30000.000	4.86	145932.00
0084	441-0004		SY	CONC SLOPE PAV, 4 IN	200.000	54.36	10873.55
0089	441-0301		EA	CONC SPILLWAY, TP 1	7.000	1640.63	11484.46
0090	442-0100		SY	ROLLER COMPACT CONC PVMT	309076.000	40.00	12363040.00
0094	445-0500		LF	WATERPROOFING PVMT JTS & CRACK 12"	288288.000	2.50	720720.00
0095	452-1000		CY	FULL DEPTH SLAB REPLACEMENT	800.000	93.74	74992.00
0100	461-1000		LF	RESEAL RDWAY JTS & CRACKS, TP- A	2000.000	2.47	4940.00
0105	500-3101		CY	CLASS A CONCRETE	100.000	666.13	66613.05
0110	500-3200		CY	CL B CONC	98.000	397.84	38988.54
0115	511-1000		LB	BAR REINF STEEL	1057.000	1.25	1322.97
0120	550-1180		LF	STM DR PIPE 18",H 1-10	18962.000	32.82	622381.38
0125	550-1240		LF	STM DR PIPE 24",H 1-10	2656.000	43.91	116650.27
0130	550-1300		LF	STM DR PIPE 30",H 1-10	36.000	64.26	2313.68
0135	550-4218		EA	FLARED END SECT 18 IN, ST DR	13.000	524.68	6820.94
0140	550-4224		EA	FLARED END SECT 24 IN, ST DR	5.000	634.76	3173.83
0145	550-4230		EA	FLARED END SECT 30 IN, ST DR	1.000	730.84	730.84
0150	573-2006		LF	UNDDR PIPE INCL DRAIN AGGR 6"	2970.000	16.73	49693.45
0155	576-1010		LF	SLOPE DRAIN PIPE, 10 IN	432.000	30.61	13227.50
0160	577-1100		EA	METAL DR INLET - CMPLT ASSMBLY	86.000	989.48	85095.64
0165	600-0001		CY	FLOWABLE FILL	182.000	257.12	46797.24
0170	611-3010		EA	RECONSTR DROP INLET, GROUP 1	3.000	1861.09	5583.30
0175	611-8040		EA	ADJUST DROP INLET TO GRADE	4.000	834.88	3339.54
0180	615-1000		LF	JACK OR BORE PIPE - 18"	406.000	200.42	81370.86
0185	615-1000		LF	JACK OR BORE PIPE - 24"	312.000	211.52	65995.94
0190	615-1000		LF	JACK OR BORE PIPE - 30"	120.000	257.23	30868.66
0205	641-1100		LF	GUARDRAIL, TP T	295.000	47.28	13949.40
0210	641-1200		LF	GUARDRAIL, TP W	19450.000	15.97	310730.28
0215	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	17.000	798.05	13566.92
0220	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	33.000	1872.10	61779.62
0225	642-0100		LF	CABLE BARRIER	31450.000	17.00	534650.00
0230	643-0155		LF	FIELD FENCE SPCL DESIGN	60900.000	11.72	713748.00

JOB ESTIMATE REPORT

0235	648-1350	EA	IMPACT ATT UNIT, TP-P- 3-B-37	3.000	17476.53	52429.59
0240	668-2100	EA	DROP INLET, GP 1	65.000	1948.96	126682.80
0245	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	28.000	213.72	5984.22
0250	441-0204	SY	PLAIN CONC DITCH PAVING, 4 IN	40.000	42.06	1682.79
0255	603-2182	SY	STN DUMPED RIP RAP, TP 3, 24"	111.000	48.28	5359.38
0260	603-7000	SY	PLASTIC FILTER FABRIC	111.000	3.83	425.49
0265	700-6910	AC	PERMANENT GRASSING	74.000	981.27	72614.08
0270	700-7000	TN	AGRICULTURAL LIME	147.000	95.81	14084.14
0275	700-8000	TN	FERTILIZER MIXED GRADE	66.000	597.44	39431.68
0280	700-8100	LB	FERTILIZER NITROGEN CONTENT	3700.000	2.00	7433.78
0285	710-9000	SY	PERM SOIL REINFORCING MAT	65866.000	3.24	213566.55
0290	716-1000	SY	EROSION CONTROL MATS,WATERWAYS	40.000	2.11	84.73
0295	716-2000	SY	EROSION CONTROL MATS, SLOPES	40.000	1.56	62.50
0300	163-0232	AC	TEMPORARY GRASSING	37.000	198.15	7331.64
0305	163-0240	TN	MULCH	333.000	176.53	58786.28
0310	163-0300	EA	CONSTRUCTION EXIT	8.000	1392.72	11141.81
0315	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	20.000	312.63	6252.77
0320	163-0529	LF	CNST/REM TEMP SED BAR OR BLD STRW CK DM	3300.000	3.86	12740.21
0325	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	20.000	533.26	10665.22
0330	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	91.000	126.63	11524.07
0335	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	63950.000	0.26	16731.88
0340	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	4550.000	0.59	2729.14
0345	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	600.000	1.06	640.66
0350	165-0071	LF	MAINT OF SEDIMENT BARRIER - BALED STRAW	1650.000	1.02	1690.87
0355	165-0101	EA	MAINT OF CONST EXIT	8.000	524.82	4198.63
0360	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	75.000	29.08	2181.17
0365	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	223.90	447.81
0370	167-1500	MO	WATER QUALITY INSPECTIONS	36.000	486.66	17519.82
0375	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	127900.000	1.50	192906.45
0380	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	9100.000	2.91	26511.12
0385	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	9100.000	1.25	11418.32
0390	610-6510	EA	REM HWY SIGN, OVHD - 250+00,355+00	2.000	578.63	1157.27
0395	610-6520	EA	REM HWY SIGN, SPCL ROADSIDE	5.000	900.50	4502.50
0400	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	45.000	15.45	695.38
0405	636-1029	SF	HWY SGN,TP2 MATL,REFL SH TP 3	184.000	15.38	2830.30
0410	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	160.000	34.39	5503.54
0415	636-1072	SF	HWY SIGNS,ALUM EXTRD PNLS, RS TP 3	1708.000	20.32	34720.34
0420	636-2070	LF	GALV STEEL POSTS, TP 7	212.000	8.43	1788.54
0425	636-2080	LF	GALV STEEL POSTS, TP 8	832.000	9.03	7517.07
0430	636-3000	LB	GALV STEEL STR SHAPE POST	4040.000	4.79	19362.06
0435	636-3010	EA	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	38.000	432.95	16452.13
0440	636-9094	LF	P-IN-PL,SIGNS,STL H,HP 12 X 53	24.000	87.72	2105.52
0445	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 290+00	1.000	76250.00	76250.00
0450	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 343+00	1.000	76250.00	76250.00
0455	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 530+10	1.000	76250.00	76250.00
0460	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 556+50	1.000	76250.00	76250.00
0463	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	1500.000	0.83	1256.28
0464	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	1500.000	0.69	1046.63
0465	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	200.000	5.68	1136.37

JOB ESTIMATE REPORT

0479	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	2112.000	0.40	857.81
0485	654-1001	EA	RAISED PVMT MARKERS TP 1	40.000	5.54	222.00
0490	654-1003	EA	RAISED PVMT MARKERS TP 3	1680.000	3.95	6639.33
0495	654-1007	EA	RAISED PVMT MARKERS TP 7	41400.000	9.38	388332.00
0500	657-1104	LF	PRF PL SD PVMT MKG,10",WH,TPPB	360.000	7.03	2530.80
0505	657-2054	LM	PRF PL SD PVMT MKG,5",WH,TP PB	12.000	18570.81	222849.72
0510	657-3054	GLF	PRF PL SK PVMT MKG,5",WH,TP PB	440.000	4.69	2063.60
0515	657-4085	GLM	PRF PL SK PVMT MKG,8",B/W,TPPB	24.000	17569.04	421656.96
0520	657-7054	LM	PRF PL SD PVMT MKG,5",YE,TP PB	12.000	18570.81	222849.72
0525	150-5010	EA	TRAF CTRL,PORTABLE IMPACT ATTN	20.000	7581.58	151631.70
0530	310-1101	TN	GR AGGR BASE CRS, INCL MATL	2750.000	24.80	68220.10
0535	318-3000	TN	AGGR SURF CRS	15350.000	15.54	238599.79
0540	402-1812	TN	RECYL AC LEVELING,INC BM&HL	2590.000	81.78	211826.70
0545	402-3121	TN	RECYL AC 25MM SP,GP1/2,BM&HL	810.000	76.62	62068.19
0549	402-3130	TN	RECYL AC 12.5MM SP,GP2,BM&HL	9510.000	70.30	668606.64
0550	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	930.000	85.34	79366.72
0555	413-1000	GL	BITUM TACK COAT	450.000	5.77	2600.96
0560	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	12600.000	3.32	41954.47
0565	550-1120	LF	STM DR PIPE, 12", H 1-10	768.000	7.00	5376.00
0570	620-0100	LF	TEMP BARRIER, METHOD NO. 1	60000.000	22.49	1349500.80
0575	668-2100	EA	DROP INLET, GP 1	16.000	1897.72	30363.67
0580	211-0300	CY	BR EXCAV, STREAM CROSSING - BEECH CREEK	534.000	32.62	17422.53
0585	500-0100	SY	GROOVED CONCRETE	4826.000	4.40	21280.97
0590	500-1006	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1	1.000	624203.00	624203.00
0595	500-2100	LF	CONCRETE BARRIER	1136.000	39.09	44416.71
0600	500-3002	CY	CL AA CONCRETE	952.000	649.65	618474.32
0605	507-9002	LF	PSC BEAMS,AASHTO TP II, BR NO- 1	6248.000	106.86	667707.02
0610	511-1000	LB	BAR REINF STEEL	209440.000	0.69	146572.40
0615	511-3000	LS	SUPERSTR REINF STEEL, BR NO - 1	1.000	118966.00	118966.00
0620	514-1000	LS	EPOXY COAT/SUP REINF ST BR NO- 1	1.000	87338.00	87338.00
0625	520-1125	LF	PIL-IN-PL,STEEL H,HP 12 X 53	3680.000	43.43	159849.89
0630	520-4125	EA	LOAD TEST, STEEL H, HP 12 X 53	2.000	0.77	1.54
0635	603-2024	SY	STN DUMPED RIP RAP, TP 1, 24"	822.000	44.63	36690.10
0640	620-0200	LF	TEMP BARRIER, METHOD NO. 2	568.000	51.58	29298.35
0645	649-0018	LF	CONCRETE GLARE SCREEN, 18 INCH	568.000	22.82	12964.11
0650	540-1102	LS	REM OF EX BR, BR NO - BEECH CREEK LT	1.000	300000.00	300000.00
0655	540-1102	LS	REM OF EX BR, BR NO - BEECH CREEK RT	1.000	300000.00	300000.00
0660	211-0300	CY	BR EXCAV, STREAM CROSSING - FLAT CREEK	356.000	32.62	11615.02
0665	500-0100	SY	GROOVED CONCRETE	4078.000	4.68	19109.67
0670	500-1006	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2	1.000	526784.00	526784.00
0675	500-2100	LF	CONCRETE BARRIER	960.000	40.31	38701.06
0680	500-3002	CY	CL AA CONCRETE	608.000	567.77	345208.35
0685	507-9002	LF	PSC BEAMS,AASHTO TP II, BR NO- 2	2640.000	112.91	298095.73
0690	507-9031	LF	PSC BEAMS,AASHTO,BULB TEE, 63"	2640.000	143.77	379569.96
0695	511-1000	LB	BAR REINF STEEL	133760.000	0.73	98339.01
0700	511-3000	LS	SUPERSTR REINF STEEL, BR NO - 2	1.000	100399.00	100399.00
0705	514-1000	LS	EPOXY COAT/SUP REINF ST BR NO- 2	1.000	73689.00	73689.00
0710	520-1125	LF	PIL-IN-PL,STEEL H,HP 12 X 53	7315.000	40.58	296906.19
0715	520-4125	EA	LOAD TEST, STEEL H, HP 12 X 53	2.000	0.77	1.54
0720	603-2024	SY	STN DUMPED RIP RAP, TP 1, 24"	850.000	44.51	37839.05
0725	620-0200	LF	TEMP BARRIER, METHOD NO. 2	480.000	52.02	24974.34
0730	649-0018	LF	CONCRETE GLARE SCREEN, 18 INCH	480.000	22.82	10955.59

JOB ESTIMATE REPORT

0735	540-1102	LS	REM OF EX BR, BR NO - FLAT CREEK LT	1.000	250000.00	250000.00
0740	540-1102	LS	REM OF EX BR, BR NO - FLAT CREEK RT	1.000	250000.00	250000.00
0745	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0750	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0755	518-1000	LS	RAISE EXISTING BRIDGE, STA - 253+88.49	1.000	235000.00	235000.00
0760	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0765	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0770	518-1000	LS	RAISE EXISTING BRIDGE, STA - 461+18.31	1.000	235000.00	235000.00

ITEM TOTAL 63712872.64
INFLATED ITEM TOTAL 63712872.64

TOTALS FOR JOB 0012800_PCC

ESTIMATED COST: 63712872.63
CONTINGENCY PERCENT (0.0): 0.00
ESTIMATED TOTAL: 63712872.63

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

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP - PCC OPTION	CALL NO.	
P.I. NO.	0012800		
DATE	1/20/2015		

INDEX (TYPE)	**DATE**	**INDEX**
REG. UNLEADED	Jan-15	
DIESEL		
LIQUID AC		$ 556.00

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)			**$ 1,716,722.28**	**$ 1,716,722.28**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			5146.05	

ASPHALT	**Tons**	**%AC**	**AC ton**
Leveling	42077	5.0%	2103.85
12.5 OGFC	0	5.0%	0
12.5 mm	59104	5.0%	2955.2
9.5 mm SP	0	5.0%	0
25 mm SP	810	5.0%	40.5
19 mm SP	930	5.0%	46.5
	102921		**5146.05**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$ 75,990.97**	**$ 75,990.97**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			227.7906774	

Bitum Tack Gals	gals/ton	tons
53035	232.8234	227.790677

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP - PCC OPTION	CALL NO.	
P.I. NO.	0012800		
DATE	1/20/2015		

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	889.60	
Monthly Asphalt Cement Price month project let (APL)			$	556.00	
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	**$**	**1,792,713.25**

COST ESTIMATE

PROJECT: MSL00-0003-00(246)

COUNTY: TROUP

PI NUMBER: 0012800

PROJECT LENGTH: 5.909 MILES

From The I-85/I-185 Interchange

To S.R. 54/S.R. 100

Hot Mix Asphalt Surfacing Option

PROJ. NO.: MSL00-0003-00(246) TROUP - HMA OPTION
P.I. NO. 0012800
DATE: 1/20/2015

Base Construction Cost		$	65,816,094.70
E & I	5%	$	3,290,804.74
Construction Contingency	20%	$	13,821,379.89
Subtotal Construction Cost		$	82,928,279.32
Liquid AC Adjustment (60 % cap)		$	5,513,602.69
Total Construction Cost		$	88,441,882.02

STATE HIGHWAY AGENCY

DATE : 01/20/2015
PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0012800_HMA SPEC YEAR: 01
DESCRIPTION: 0012800 HMA OPTION 2/3
I 85 FROM NORTH OF SR 109/TROUP TO N OF CR 417/MERIWETHER

ITEMS FOR JOB 0012800_HMA

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - MSL-0003-00(246)	1.000	8500000.00	8500000.00
0010	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	83619.18	83619.18
0015	201-1500		LS	CLEARING & GRUBBING - MSL-0003-00(246)	1.000	109650.00	109650.00
0020	205-0001		CY	UNCLASS EXCAV	39940.000	12.15	485449.13
0025	206-0002		CY	BORROW EXCAV, INCL MATL	519250.000	4.60	2389349.65
0030	212-1000		CY	GRANULAR EMBANKMENT INCL M&H	131040.000	25.04	3281459.13
0035	318-3000		TN	AGGR SURF CRS	200.000	21.01	4202.51
0037	400-3205		TN	ASPH CONC 12.5MM OGFC,GP2,BMHL	30687.000	85.00	2608395.00
0038	400-3604		TN	ASPH CONC 12.5 MM SMA,GP2,INCL P-MBM&HL	49100.000	120.00	5892000.00
0039	400-3624		TN	ASPH CONC 12.5 MM PEM,GP2,INCL P-MBM&HL	30687.000	86.58	2656961.17
0040	402-1812		TN	RECYL AC LEVELING,INC BM&HL	39487.000	63.84	2520967.75
0044	402-3130		TN	RECYL AC 12.5MM SP,GP2,BM&HL	210.000	117.61	24699.08
0045	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	98200.000	56.31	5530607.31
0050	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	61592.000	58.27	3589225.76
0055	413-1000		GL	BITUM TACK COAT	78113.000	1.92	150469.85
0080	433-1000		SY	REINF CONC APPROACH SLAB	2736.000	160.53	439227.97
0083	436-1000		LF	ASPH CONC CURB - 6"	30000.000	5.35	160614.90
0084	441-0004		SY	CONC SLOPE PAV, 4 IN	200.000	54.36	10873.55
0089	441-0301		EA	CONC SPILLWAY, TP 1	7.000	1510.78	10575.50
0090	442-0100		SY	ROLLER COMPACT CONC PVMT	309076.000	40.00	12363040.00
0094	445-0500		LF	WATERPROOFING PVMT JTS & CRACK 12"	288288.000	2.50	720720.00
0095	452-1000		CY	FULL DEPTH SLAB REPLACEMENT	800.000	93.74	74992.00
0100	461-1000		LF	RESEAL RDWAY JTS & CRACKS, TP- A	2000.000	2.47	4940.00
0105	500-3101		CY	CLASS A CONCRETE	100.000	782.58	78258.58
0110	500-3200		CY	CL B CONC	98.000	397.84	38988.54
0115	511-1000		LB	BAR REINF STEEL	1057.000	1.23	1300.87
0120	550-1180		LF	STM DR PIPE 18",H 1-10	18962.000	33.56	636499.54
0125	550-1240		LF	STM DR PIPE 24",H 1-10	2656.000	43.91	116650.27
0130	550-1300		LF	STM DR PIPE 30",H 1-10	36.000	69.19	2491.01
0135	550-4218		EA	FLARED END SECT 18 IN, ST DR	13.000	524.68	6820.94
0140	550-4224		EA	FLARED END SECT 24 IN, ST DR	5.000	634.76	3173.83
0145	550-4230		EA	FLARED END SECT 30 IN, ST DR	1.000	730.84	730.84
0150	573-2006		LF	UNDDR PIPE INCL DRAIN AGGR 6"	2970.000	16.73	49693.45
0155	576-1010		LF	SLOPE DRAIN PIPE, 10 IN	432.000	30.61	13227.50
0160	577-1100		EA	METAL DR INLET - CMPLT ASSMBLY	86.000	989.48	85095.64
0165	600-0001		CY	FLOWABLE FILL	182.000	226.74	41268.24
0170	611-3010		EA	RECONSTR DROP INLET, GROUP 1	3.000	1861.09	5583.30
0175	611-8040		EA	ADJUST DROP INLET TO GRADE	4.000	834.88	3339.54
0180	615-1000		LF	JACK OR BORE PIPE - 18"	406.000	156.41	63504.97
0185	615-1000		LF	JACK OR BORE PIPE - 24"	312.000	165.08	51505.80

JOB ESTIMATE REPORT

0190	615-1000	LF	JACK OR BORE PIPE - 30"	120.000	200.75	24091.10
0205	641-1100	LF	GUARDRAIL, TP T	295.000	45.83	13522.31
0210	641-1200	LF	GUARDRAIL, TP W	19450.000	15.33	298230.55
0215	641-5001	EA	GUARDRAIL ANCHORAGE, TP 1	17.000	831.57	14136.74
0220	641-5012	EA	GUARDRAIL ANCHORAGE, TP 12	33.000	2028.92	66954.42
0225	642-0100	LF	CABLE BARRIER	31450.000	17.00	534650.00
0230	643-0155	LF	FIELD FENCE SPCL DESIGN	60900.000	11.72	713748.00
0235	648-1350	EA	IMPACT ATT UNIT, TP-P- 3-B-37	3.000	17476.53	52429.59
0240	668-2100	EA	DROP INLET, GP 1	65.000	1682.06	109334.49
0245	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	28.000	171.36	4798.16
0250	441-0204	SY	PLAIN CONC DITCH PAVING, 4 IN	40.000	42.06	1682.79
0255	603-2182	SY	STN DUMPED RIP RAP, TP 3, 24"	111.000	48.28	5359.38
0260	603-7000	SY	PLASTIC FILTER FABRIC	111.000	3.83	425.49
0265	700-6910	AC	PERMANENT GRASSING	74.000	988.41	73142.82
0270	700-7000	TN	AGRICULTURAL LIME	147.000	70.22	10322.45
0275	700-8000	TN	FERTILIZER MIXED GRADE	66.000	597.44	39431.68
0280	700-8100	LB	FERTILIZER NITROGEN CONTENT	3700.000	1.80	6687.53
0285	710-9000	SY	PERM SOIL REINFORCING MAT	65866.000	3.24	213566.55
0290	716-1000	SY	EROSION CONTROL MATS,WATERWAYS	40.000	2.11	84.73
0295	716-2000	SY	EROSION CONTROL MATS, SLOPES	40.000	1.56	62.50
0300	163-0232	AC	TEMPORARY GRASSING	37.000	198.15	7331.64
0305	163-0240	TN	MULCH	333.000	176.53	58786.28
0310	163-0300	EA	CONSTRUCTION EXIT	8.000	1392.72	11141.81
0315	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	20.000	276.89	5538.00
0320	163-0529	LF	CNST/REM TEMP SED BAR OR BLD STRW CK DM	3300.000	3.73	12328.40
0325	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	20.000	533.26	10665.22
0330	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	91.000	126.63	11524.07
0335	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	63950.000	0.26	16731.88
0340	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	4550.000	0.59	2729.14
0345	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	600.000	1.79	1079.93
0350	165-0071	LF	MAINT OF SEDIMENT BARRIER - BALED STRAW	1650.000	1.02	1690.87
0355	165-0101	EA	MAINT OF CONST EXIT	8.000	569.89	4559.12
0360	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	75.000	34.04	2553.01
0365	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	223.90	447.81
0370	167-1500	MO	WATER QUALITY INSPECTIONS	36.000	481.70	17341.41
0375	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	127900.000	1.50	192906.45
0380	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	9100.000	2.97	27097.89
0385	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	9100.000	1.25	11418.32
0390	610-6510	EA	REM HWY SIGN, OVHD - 250+00,355+00	2.000	578.63	1157.27
0395	610-6520	EA	REM HWY SIGN, SPCL ROADSIDE	5.000	900.50	4502.50
0400	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	45.000	14.79	665.66
0405	636-1029	SF	HWY SGN,TP2 MATL,REFL SH TP 3	184.000	15.38	2830.30
0410	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	160.000	34.39	5503.54
0415	636-1072	SF	HWY SIGNS,ALUM EXTRD PNLS, RS TP 3	1708.000	23.94	40904.58
0420	636-2070	LF	GALV STEEL POSTS, TP 7	212.000	6.96	1475.53
0425	636-2080	LF	GALV STEEL POSTS, TP 8	832.000	8.81	7333.57
0430	636-3000	LB	GALV STEEL STR SHAPE POST	4040.000	4.79	19362.06
0435	636-3010	EA	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	38.000	425.62	16173.69
0440	636-9094	LF	P-IN-PL,SIGNS,STL H,HP 12 X 53	24.000	87.72	2105.52

JOB ESTIMATE REPORT

0445	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 290+00	1.000	76250.00	76250.00
0450	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 343+00	1.000	76250.00	76250.00
0455	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 530+10	1.000	76250.00	76250.00
0460	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 556+50	1.000	76250.00	76250.00
0465	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	200.000	6.16	1232.42
0469	653-1810	LF	THER SLD TRAF STRIPE, 10 IN, W	320.000	1.88	604.76
0470	653-2501	LM	THERMO SOLID TRAF ST, 5 IN, WH	12.000	1627.41	19528.93
0475	653-2502	LM	THERMO SOLID TRAF ST, 5 IN YE	12.000	1643.95	19727.43
0480	653-4501	GLM	THERMO SKIP TRAF ST, 5 IN, WHI	25.000	1074.84	26871.00
0485	654-1001	EA	RAISED PVMT MARKERS TP 1	40.000	4.75	190.25
0490	654-1003	EA	RAISED PVMT MARKERS TP 3	1680.000	3.12	5244.66
0495	654-1007	EA	RAISED PVMT MARKERS TP 7	41400.000	9.38	388332.00
0525	150-5010	EA	TRAF CTRL,PORTABLE IMPACT ATTN	20.000	7943.69	158873.99
0530	310-1101	TN	GR AGGR BASE CRS, INCL MATL	2750.000	24.93	68575.51
0535	318-3000	TN	AGGR SURF CRS	15350.000	15.54	238599.79
0540	402-1812	TN	RECYL AC LEVELING,INC BM&HL	2590.000	74.60	193221.59
0545	402-3121	TN	RECYL AC 25MM SP,GP1/2,BM&HL	810.000	78.01	63189.53
0549	402-3130	TN	RECYL AC 12.5MM SP,GP2,BM&HL	9510.000	70.30	668606.64
0550	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	930.000	79.18	73643.07
0555	413-1000	GL	BITUM TACK COAT	450.000	4.35	1959.89
0560	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	12600.000	2.71	34193.38
0565	550-1120	LF	STM DR PIPE, 12", H 1-10	768.000	7.00	5376.00
0570	620-0100	LF	TEMP BARRIER, METHOD NO. 1	60000.000	22.33	1340230.20
0575	668-2100	EA	DROP INLET, GP 1	16.000	1799.92	28798.77
0580	211-0300	CY	BR EXCAV, STREAM CROSSING - BEECH CREEK	534.000	32.62	17422.53
0585	500-0100	SY	GROOVED CONCRETE	4826.000	4.06	19601.09
0590	500-1006	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1	1.000	624203.00	624203.00
0595	500-2100	LF	CONCRETE BARRIER	1136.000	45.72	51946.66
0600	500-3002	CY	CL AA CONCRETE	952.000	649.65	618474.32
0605	507-9002	LF	PSC BEAMS,AASHTO TP II, BR NO- 1	6248.000	106.86	667707.02
0610	511-1000	LB	BAR REINF STEEL	209440.000	0.68	144124.04
0615	511-3000	LS	SUPERSTR REINF STEEL, BR NO - 1	1.000	118966.00	118966.00
0620	514-1000	LS	EPOXY COAT/SUP REINF ST BR NO- 1	1.000	87338.00	87338.00
0625	520-1125	LF	PIL-IN-PL,STEEL H,HP 12 X 53	3680.000	43.43	159849.89
0630	520-4125	EA	LOAD TEST, STEEL H, HP 12 X 53	2.000	0.77	1.54
0635	603-2024	SY	STN DUMPED RIP RAP, TP 1, 24"	822.000	41.46	34082.12
0640	620-0200	LF	TEMP BARRIER, METHOD NO. 2	568.000	61.69	35041.08
0645	649-0018	LF	CONCRETE GLARE SCREEN, 18 INCH	568.000	22.82	12964.11
0650	540-1102	LS	REM OF EX BR, BR NO - BEECH CREEK LT	1.000	300000.00	300000.00
0655	540-1102	LS	REM OF EX BR, BR NO - BEECH CREEK RT	1.000	300000.00	300000.00
0660	211-0300	CY	BR EXCAV, STREAM CROSSING - FLAT CREEK	356.000	32.62	11615.02
0665	500-0100	SY	GROOVED CONCRETE	4078.000	4.31	17601.22
0670	500-1006	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2	1.000	526784.00	526784.00
0675	500-2100	LF	CONCRETE BARRIER	960.000	47.14	45262.02
0680	500-3002	CY	CL AA CONCRETE	608.000	706.53	429575.67
0685	507-9002	LF	PSC BEAMS,AASHTO TP II, BR NO- 2	2640.000	112.91	298095.73
0690	507-9031	LF	PSC BEAMS,AASHTO,BULB TEE, 63"	2640.000	173.36	457691.28
0695	511-1000	LB	BAR REINF STEEL	133760.000	0.72	96695.10
0700	511-3000	LS	SUPERSTR REINF STEEL, BR NO - 2	1.000	100399.00	100399.00
0705	514-1000	LS	EPOXY COAT/SUP REINF ST BR NO- 2	1.000	73689.00	73689.00
0710	520-1125	LF	PIL-IN-PL,STEEL H,HP 12 X 53	7315.000	40.58	296906.19
0715	520-4125	EA	LOAD TEST, STEEL H, HP 12 X 53	2.000	0.77	1.54

JOB ESTIMATE REPORT

0720	603-2024	SY	STN DUMPED RIP RAP, TP 1, 24"	850.000	41.35	35149.40
0725	620-0200	LF	TEMP BARRIER, METHOD NO. 2	480.000	62.22	29869.52
0730	649-0018	LF	CONCRETE GLARE SCREEN, 18 INCH	480.000	22.82	10955.59
0735	540-1102	LS	REM OF EX BR, BR NO - FLAT CREEK LT	1.000	250000.00	250000.00
0740	540-1102	LS	REM OF EX BR, BR NO - FLAT CREEK RT	1.000	250000.00	250000.00
0745	500-3101	CY	CLASS A CONCRETE	50.000	809.89	40494.73
0750	511-1000	LB	BAR REINF STEEL	5000.000	1.03	5187.35
0755	518-1000	LS	RAISE EXISTING BRIDGE, STA - 253+88.49	1.000	235000.00	235000.00
0760	500-3101	CY	CLASS A CONCRETE	50.000	809.89	40494.73
0765	511-1000	LB	BAR REINF STEEL	5000.000	1.03	5187.35
0770	518-1000	LS	RAISE EXISTING BRIDGE, STA - 461+18.31	1.000	235000.00	235000.00

ITEM TOTAL 65816094.73
INFLATED ITEM TOTAL 65816094.73

TOTALS FOR JOB 0012800_HMA

ESTIMATED COST: 65816094.70
CONTINGENCY PERCENT (0.0): 0.00
ESTIMATED TOTAL: 65816094.70

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

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP - HMA OPTION	CALL NO.
P.I. NO.	0012800	
DATE	1/20/2015	

INDEX (TYPE)	**DATE**	**INDEX**
REG. UNLEADED	Jan-15	
DIESEL		
LIQUID AC		$ 556.00

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)			**$ 5,401,034.04**	**$ 5,401,034.04**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			16190.15	

ASPHALT	**Tons**	**%AC**	**AC ton**
Leveling	42077	5.0%	2103.85
12.5 OGFC	110474	5.0%	5523.7
12.5 mm	9720	5.0%	486
9.5 mm SP	0	5.0%	0
25 mm SP	810	5.0%	40.5
19 mm SP	160722	5.0%	8036.1
	323803		**16190.15**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$ 112,568.65**	**$ 112,568.65**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			337.4360137	

Bitum Tack Gals	gals/ton	tons
78563	232.8234	337.436014

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP - HMA OPTION	CALL NO.	
P.I. NO.	0012800		
DATE	1/20/2015		

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	889.60	
Monthly Asphalt Cement Price month project let (APL)			$	556.00	
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	**$**	**5,513,602.69**

COST ESTIMATE

PROJECT: MSL00-0003-00(246)

COUNTY: TROUP/MERIWETHER

PI NUMBER: 0012801

PROJECT LENGTH: 5.682 MILES

From S.R. 54/S.R. 100 in Troup County To

Just North of Forrest Road in Meriwether County

Portland Cement Concrete Surfacing Option

PROJ. NO.: MSL00-0003-00(246) TROUP/MERIWETHER - PCC OPTION
P.I. NO. 0012801
DATE: 1/20/2015

Base Construction Cost		$	56,041,544.52
E & I	5%	$	2,802,077.23
Construction Contingency	20%	$	11,768,724.35
Subtotal Construction Cost		$	70,612,346.10
Liquid AC Adjustment (60 % cap)		$	1,737,942.24
Total Construction Cost		$	72,350,288.34

STATE HIGHWAY AGENCY

DATE : 01/20/2015
PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0012801_PCC SPEC YEAR: 01
DESCRIPTION: 0012801 PCC OPTION 3/3
I 85 FROM NORTH OF SR 109/TROUP TO N OF CR 417/MERIWETHER

ITEMS FOR JOB 0012801_PCC

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - MSL-0003-00(246)	1.000	7000000.00	7000000.00
0010	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	83619.18	83619.18
0015	201-1500		LS	CLEARING & GRUBBING - MSL-0003-00(246)	1.000	105450.00	105450.00
0020	205-0001		CY	UNCLASS EXCAV	38942.000	12.22	475971.71
0025	206-0002		CY	BORROW EXCAV, INCL MATL	506268.000	4.60	2329612.45
0030	212-1000		CY	GRANULAR EMBANKMENT INCL M&H	126000.000	21.59	2720681.46
0031	310-1101		TN	GR AGGR BASE CRS, INCL MATL	1060.000	26.88	28496.29
0035	318-3000		TN	AGGR SURF CRS	200.000	21.01	4202.51
0040	402-1812		TN	RECYL AC LEVELING,INC BM&HL	37532.000	70.19	2634515.20
0045	402-3130		TN	RECYL AC 12.5MM SP,GP2,BM&HL	48570.000	56.41	2740240.23
0055	413-1000		GL	BITUM TACK COAT	51949.000	2.72	141654.53
0060	430-0200		SY	PLN PC CONC PVMT/CL1C/ 10" TK	417500.000	32.80	13694000.00
0065	430-0600		SY	PLN PC CONC PVMT/HES/ 10" TK	19918.000	50.00	995900.00
0080	433-1000		SY	REINF CONC APPROACH SLAB	1002.000	160.53	160857.61
0083	436-1000		LF	ASPH CONC CURB - 6"	30000.000	4.86	145932.00
0084	441-0004		SY	CONC SLOPE PAV, 4 IN	200.000	54.36	10873.55
0089	441-0301		EA	CONC SPILLWAY, TP 1	12.000	1661.26	19935.14
0090	442-0100		SY	ROLLER COMPACT CONC PVMT	301751.000	40.00	12070040.00
0094	445-0500		LF	WATERPROOFING PVMT JTS & CRACK 12"	277200.000	2.50	693000.00
0095	452-1000		CY	FULL DEPTH SLAB REPLACEMENT	760.000	93.74	71242.40
0100	461-1000		LF	RESEAL RDWAY JTS & CRACKS, TP- A	2000.000	2.47	4940.00
0105	500-3101		CY	CLASS A CONCRETE	100.000	666.13	66613.05
0110	500-3200		CY	CL B CONC	102.000	395.42	40333.10
0115	511-1000		LB	BAR REINF STEEL	804.000	1.28	1037.03
0120	550-1180		LF	STM DR PIPE 18",H 1-10	20976.000	32.57	683301.59
0125	550-1240		LF	STM DR PIPE 24",H 1-10	883.000	47.59	42025.85
0130	550-1300		LF	STM DR PIPE 30",H 1-10	36.000	64.26	2313.68
0135	550-4218		EA	FLARED END SECT 18 IN, ST DR	15.000	523.85	7857.82
0140	550-4224		EA	FLARED END SECT 24 IN, ST DR	6.000	633.46	3800.78
0145	550-4230		EA	FLARED END SECT 30 IN, ST DR	1.000	730.84	730.84
0150	573-2006		LF	UNDDR PIPE INCL DRAIN AGGR 6"	2850.000	16.73	47685.63
0155	576-1010		LF	SLOPE DRAIN PIPE, 10 IN	415.000	30.85	12803.63
0160	577-1100		EA	METAL DR INLET - CMPLT ASSMBLY	83.000	989.48	82127.19
0165	600-0001		CY	FLOWABLE FILL	175.000	258.12	45172.46
0170	611-3010		EA	RECONSTR DROP INLET, GROUP 1	3.000	1861.09	5583.30
0175	611-8040		EA	ADJUST DROP INLET TO GRADE	2.000	906.17	1812.35
0180	615-1000		LF	JACK OR BORE PIPE - 18"	58.000	298.53	17314.95
0185	615-1000		LF	JACK OR BORE PIPE - 24"	437.000	197.42	86274.17
0190	615-1000		LF	JACK OR BORE PIPE - 30"	58.000	298.53	17314.95
0205	641-1100		LF	GUARDRAIL, TP T	340.000	45.63	15514.89
0210	641-1200		LF	GUARDRAIL, TP W	39000.000	15.30	596841.57
0215	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	34.000	784.85	26685.19
0220	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	78.000	1872.80	146078.78
0225	642-0100		LF	CABLE BARRIER	30200.000	17.00	513400.00

JOB ESTIMATE REPORT

0230	643-0155	LF	FIELD FENCE SPCL DESIGN	58500.000	11.72	685620.00
0235	668-2100	EA	DROP INLET, GP 1	70.000	1948.96	136427.63
0240	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	42.000	180.32	7573.45
0245	441-0204	SY	PLAIN CONC DITCH PAVING, 4 IN	40.000	42.06	1682.79
0250	603-2182	SY	STN DUMPED RIP RAP, TP 3, 24"	90.000	48.94	4405.26
0255	603-7000	SY	PLASTIC FILTER FABRIC	90.000	3.86	348.19
0260	700-6910	AC	PERMANENT GRASSING	60.000	993.65	59619.08
0265	700-7000	TN	AGRICULTURAL LIME	121.000	97.98	11856.29
0270	700-8000	TN	FERTILIZER MIXED GRADE	54.000	597.44	32262.28
0275	700-8100	LB	FERTILIZER NITROGEN CONTENT	3000.000	2.07	6226.92
0280	710-9000	SY	PERM SOIL REINFORCING MAT	95045.000	3.13	297679.99
0285	716-1000	SY	EROSION CONTROL MATS,WATERWAYS	40.000	2.11	84.73
0290	716-2000	SY	EROSION CONTROL MATS, SLOPES	40.000	1.56	62.50
0295	163-0232	AC	TEMPORARY GRASSING	30.000	204.84	6145.31
0300	163-0240	TN	MULCH	273.000	182.38	49791.43
0305	163-0300	EA	CONSTRUCTION EXIT	4.000	1274.78	5099.15
0310	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	20.000	312.63	6252.77
0315	163-0529	LF	CNST/REM TEMP SED BAR OR BLD STRW CK DM	1800.000	3.94	7098.01
0320	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	11.000	555.17	6106.92
0325	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	93.000	126.51	11765.60
0330	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	64200.000	0.26	16784.45
0335	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	4550.000	0.59	2729.14
0340	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	465.000	1.12	521.64
0345	165-0071	LF	MAINT OF SEDIMENT BARRIER - BALED STRAW	900.000	1.12	1010.82
0350	165-0101	EA	MAINT OF CONST EXIT	4.000	524.82	2099.32
0355	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	77.000	28.99	2232.75
0360	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	223.90	447.81
0365	167-1500	MO	WATER QUALITY INSPECTIONS	36.000	486.66	17519.82
0370	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	128400.000	1.50	193609.22
0375	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	9100.000	2.91	26511.12
0380	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	9100.000	1.25	11418.32
0390	610-6520	EA	REM HWY SIGN, SPCL ROADSIDE	6.000	900.50	5403.00
0395	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	68.000	15.12	1028.54
0400	636-1029	SF	HWY SGN,TP2 MATL,REFL SH TP 3	180.000	15.38	2769.10
0405	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	32.000	33.84	1082.89
0410	636-1072	SF	HWY SIGNS,ALUM EXTRD PNLS, RS TP 3	1413.000	20.48	28940.18
0415	636-2070	LF	GALV STEEL POSTS, TP 7	216.000	8.42	1818.99
0420	636-2080	LF	GALV STEEL POSTS, TP 8	534.000	9.08	4849.90
0425	636-3000	LB	GALV STEEL STR SHAPE POST	2292.000	5.06	11612.03
0430	636-3010	EA	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	27.000	446.29	12049.91
0440	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 582+90	1.000	76250.00	76250.00
0445	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 619+22	1.000	76250.00	76250.00
0450	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 645+62	1.000	76250.00	76250.00
0455	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 672+02	1.000	76250.00	76250.00
0458	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	3000.000	0.73	2199.90
0459	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	3000.000	0.61	1855.92
0460	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	200.000	5.68	1136.37
0474	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	2112.000	0.40	857.81
0480	654-1001	EA	RAISED PVMT MARKERS TP 1	50.000	5.38	269.49

JOB ESTIMATE REPORT

0485	654-1003	EA	RAISED PVMT MARKERS TP 3	1640.000	3.95	6488.77
0490	654-1007	EA	RAISED PVMT MARKERS TP 7	39600.000	9.38	371448.00
0495	657-1104	LF	PRF PL SD PVMT MKG,10",WH,TPPB	1020.000	7.03	7170.60
0500	657-2054	LM	PRF PL SD PVMT MKG,5",WH,TP PB	12.000	18570.81	222849.72
0505	657-3054	GLF	PRF PL SK PVMT MKG,5",WH,TP PB	840.000	4.69	3939.60
0510	657-4085	GLM	PRF PL SK PVMT MKG,8",B/W,TPPB	23.000	17569.04	404087.92
0515	657-7054	LM	PRF PL SD PVMT MKG,5",YE,TP PB	12.000	18570.81	222849.72
0520	615-1200	LF	DIRECTIONAL BORE - 5"	100.000	15.45	1545.24
0525	639-4004	EA	STRAIN POLE, TP IV	2.000	7246.37	14492.75
0530	647-2130	EA	PULL BOX, PB-3	1.000	60.00	60.00
0535	647-2140	EA	PULL BOX, PB-4	2.000	805.00	1610.00
0540	682-6120	LF	CONDUIT, RIGID, 2 IN	650.000	13.46	8750.05
0545	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	650.000	3.75	2442.66
0550	682-6520	LF	CONDUIT, FIBERGLASS, 2 IN	660.000	26.64	17582.40
0555	682-9010	EA	SVC POLE RISER	2.000	3233.99	6468.00
0560	682-9023	EA	ELEC JCT BX,GALVANIZED, SIZE -	8.000	205.00	1640.00
0565	935-1111	LF	OUT PLANT FBR OPTC CBL,LOOSE TB,SM,6 FBR	850.000	1.36	1156.00
0570	935-1115	LF	OUT PLNT FBR OPT CBL,LOOSE TB,SM,48 FBR	550.000	2.57	1415.60
0575	935-3405	EA	FBR OPTIC CLOSURE,FDC(RACK MTD),48 FBR	1.000	2100.00	2100.00
0580	935-5050	EA	FIBER OPTIC PATCH CORD, SM	2.000	88.78	177.56
0585	936-1001	EA	CCTV SYSTEM,TYPE B	2.000	6392.17	12784.34
0590	936-8000	LS	TESTING	1.000	4143.07	4143.07
0595	936-8500	LS	TRAINING	1.000	2959.33	2959.33
0600	939-1190	EA	VIDEO ENCODER, TYPE A	2.000	6510.54	13021.08
0605	939-1195	EA	VIDEO DECODER, TYPE A	2.000	6510.54	13021.08
0610	939-1355	EA	DSL MODEM	2.000	2663.41	5326.82
0615	939-1360	EA	FIELD PC	2.000	20123.48	40246.96
0620	939-2300	EA	FIELD SWITCH, TYPE A	2.000	4261.45	8522.90
0625	939-4050	EA	TYPE E CABINET	2.000	5681.93	11363.86
0630	939-5010	EA	ELEC PWR SVC ASSEMBLY,AERIAL SVC POINT	1.000	3551.21	3551.21
0635	150-5010	EA	TRAF CTRL,PORTABLE IMPACT ATTN	20.000	7581.58	151631.70
0640	310-1101	TN	GR AGGR BASE CRS, INCL MATL	3290.000	24.43	80391.78
0645	318-3000	TN	AGGR SURF CRS	15000.000	15.56	233533.05
0650	402-1812	TN	RECYL AC LEVELING,INC BM&HL	2470.000	82.00	202561.00
0655	402-3121	TN	RECYL AC 25MM SP,GP1/2,BM&HL	810.000	76.62	62068.19
0659	402-3130	TN	RECYL AC 12.5MM SP,GP2,BM&HL	9110.000	70.71	644209.28
0660	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	1200.000	83.76	100517.42
0665	413-1000	GL	BITUM TACK COAT	450.000	5.77	2600.96
0670	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	12600.000	3.32	41954.47
0675	550-1120	LF	STM DR PIPE, 12", H 1-10	768.000	7.00	5376.00
0680	620-0100	LF	TEMP BARRIER, METHOD NO. 1	60000.000	22.49	1349500.80
0685	668-2100	EA	DROP INLET, GP 1	16.000	1897.72	30363.67
0690	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0695	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0700	518-1000	LS	RAISE EXISTING BRIDGE, STA - 600+20.72	1.000	235000.00	235000.00
0705	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0710	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0715	518-1000	LS	RAISE EXISTING BRIDGE, STA - 669+76.35	1.000	235000.00	235000.00
0720	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34

JOB ESTIMATE REPORT

0725	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0730	518-1000	LS	RAISE EXISTING BRIDGE, STA - 729+47.23	1.000	235000.00	235000.00
0735	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0740	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0745	518-1000	LS	RAISE EXISTING BRIDGE, STA - 851+90.11	1.000	235000.00	235000.00

ITEM TOTAL 56041544.49
INFLATED ITEM TOTAL 56041544.49

TOTALS FOR JOB 0012801_PCC

ESTIMATED COST: 56041544.52
CONTINGENCY PERCENT (0.0): 0.00
ESTIMATED TOTAL: 56041544.52

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP/MERIWETHER - PCC OPTION	CALL NO.	
P.I. NO.	0012801		
DATE	1/20/2015		

INDEX (TYPE)	**DATE**	**INDEX**
REG. UNLEADED	Jan-15	
DIESEL		
LIQUID AC		$ 556.00

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)			**$ 1,662,862.56**	**$ 1,662,862.56**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			4984.6	

ASPHALT	**Tons**	**%AC**	**AC ton**
Leveling	40002	5.0%	2000.1
12.5 OGFC	0	5.0%	0
12.5 mm	57680	5.0%	2884
9.5 mm SP	0	5.0%	0
25 mm SP	810	5.0%	40.5
19 mm SP	1200	5.0%	60
	99692		**4984.6**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$ 75,079.68**	**$ 75,079.68**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			225.0589932	

Bitum Tack Gals	gals/ton	tons
52399	232.8234	225.058993

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP/MERIWETHER - PCC OPTION	CALL NO.	
P.I. NO.	0012801		
DATE	1/20/2015		

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	889.60	
Monthly Asphalt Cement Price month project let (APL)			$	556.00	
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	**$**	**1,737,942.24**

COST ESTIMATE

PROJECT: MSL00-0003-00(246)

COUNTY: TROUP/MERIWETHER

PI NUMBER: 0012801

PROJECT LENGTH: 5.682 MILES

From S.R. 54/S.R. 100 in Troup County To

Just North of Forrest Road in Meriwether County

Hot Mix Asphalt Surfacing Option

PROJ. NO.: MSL00-0003-00(246) TROUP/MERIWETHER - HMA OPTION
P.I. NO. 0012801
DATE: 1/20/2015

Base Construction Cost		$	57,741,156.48
E & I	5%	$	2,887,057.82
Construction Contingency	20%	$	12,125,642.86
Subtotal Construction Cost		$	72,753,857.16
Liquid AC Adjustment (60 % cap)		$	5,352,356.15
Total Construction Cost		$	78,106,213.31

JOB ESTIMATE REPORT

JOB NUMBER : 0012801_HMA SPEC YEAR: 01
DESCRIPTION: 0012801 HMA OPTION 3/3
I 85 FROM NORTH OF SR 109/TROUP TO N OF CR 417/MERIWETHER

ITEMS FOR JOB 0012801_HMA

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - MSL-0003-00(246)	1.000	7000000.00	7000000.00
0010	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	83619.18	83619.18
0015	201-1500		LS	CLEARING & GRUBBING - MSL-0003-00(246)	1.000	105540.00	105540.00
0020	205-0001		CY	UNCLASS EXCAV	38942.000	12.22	475971.71
0025	206-0002		CY	BORROW EXCAV, INCL MATL	506268.000	4.60	2329612.45
0030	212-1000		CY	GRANULAR EMBANKMENT INCL M&H	126000.000	25.10	3163618.08
0031	310-1101		TN	GR AGGR BASE CRS, INCL MATL	1060.000	27.02	28644.75
0035	318-3000		TN	AGGR SURF CRS	200.000	21.01	4202.51
0037	400-3205		TN	ASPH CONC 12.5MM OGFC,GP2,BMHL	29787.000	85.00	2531895.00
0038	400-3604		TN	ASPH CONC 12.5 MM SMA,GP2,INCL P-MBM&HL	47658.000	120.00	5718960.00
0039	400-3624		TN	ASPH CONC 12.5 MM PEM,GP2,INCL P-MBM&HL	29787.000	86.89	2588378.30
0040	402-1812		TN	RECYL AC LEVELING,INC BM&HL	37532.000	64.02	2403121.04
0044	402-3130		TN	RECYL AC 12.5MM SP,GP2,BM&HL	549.000	103.30	56716.87
0045	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	95315.000	56.44	5379843.58
0050	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	60115.000	58.37	3509378.44
0055	413-1000		GL	BITUM TACK COAT	75819.000	1.93	146741.61
0080	433-1000		SY	REINF CONC APPROACH SLAB	1002.000	160.53	160857.61
0083	436-1000		LF	ASPH CONC CURB - 6"	30000.000	5.35	160614.90
0084	441-0004		SY	CONC SLOPE PAV, 4 IN	200.000	54.36	10873.55
0089	441-0301		EA	CONC SPILLWAY, TP 1	12.000	1661.26	19935.14
0090	442-0100		SY	ROLLER COMPACT CONC PVMT	301751.000	40.00	12070040.00
0094	445-0500		LF	WATERPROOFING PVMT JTS & CRACK 12"	277200.000	2.50	693000.00
0095	452-1000		CY	FULL DEPTH SLAB REPLACEMENT	760.000	93.74	71242.40
0100	461-1000		LF	RESEAL RDWAY JTS & CRACKS, TP- A	2000.000	2.47	4940.00
0105	500-3101		CY	CLASS A CONCRETE	100.000	782.58	78258.58
0110	500-3200		CY	CL B CONC	102.000	395.42	40333.10
0115	511-1000		LB	BAR REINF STEEL	804.000	1.26	1019.71
0120	550-1180		LF	STM DR PIPE 18",H 1-10	20976.000	33.31	698801.60
0125	550-1240		LF	STM DR PIPE 24",H 1-10	883.000	47.59	42025.85
0130	550-1300		LF	STM DR PIPE 30",H 1-10	36.000	69.19	2491.01
0135	550-4218		EA	FLARED END SECT 18 IN, ST DR	15.000	523.85	7857.82
0140	550-4224		EA	FLARED END SECT 24 IN, ST DR	6.000	633.46	3800.78
0145	550-4230		EA	FLARED END SECT 30 IN, ST DR	1.000	730.84	730.84
0150	573-2006		LF	UNDDR PIPE INCL DRAIN AGGR 6"	2850.000	16.73	47685.63
0155	576-1010		LF	SLOPE DRAIN PIPE, 10 IN	415.000	30.85	12803.63
0160	577-1100		EA	METAL DR INLET - CMPLT ASSMBLY	83.000	989.48	82127.19
0165	600-0001		CY	FLOWABLE FILL	175.000	227.63	39835.42
0170	611-3010		EA	RECONSTR DROP INLET, GROUP 1	3.000	1861.09	5583.30
0175	611-8040		EA	ADJUST DROP INLET TO GRADE	2.000	906.17	1812.35
0180	615-1000		LF	JACK OR BORE PIPE - 18"	58.000	232.98	13513.26

JOB ESTIMATE REPORT

0185	615-1000	LF	JACK OR BORE PIPE - 24"	437.000	154.07	67331.71
0190	615-1000	LF	JACK OR BORE PIPE - 30"	58.000	232.98	13513.26
0205	641-1100	LF	GUARDRAIL, TP T	340.000	44.23	15039.87
0210	641-1200	LF	GUARDRAIL, TP W	39000.000	14.68	572832.39
0215	641-5001	EA	GUARDRAIL ANCHORAGE, TP 1	34.000	817.82	27805.98
0220	641-5012	EA	GUARDRAIL ANCHORAGE, TP 12	78.000	2025.96	158025.11
0225	642-0100	LF	CABLE BARRIER	30200.000	17.00	513400.00
0230	643-0155	LF	FIELD FENCE SPCL DESIGN	58500.000	11.72	685620.00
0235	668-2100	EA	DROP INLET, GP 1	70.000	1676.05	117324.06
0240	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	42.000	171.36	7197.24
0245	441-0204	SY	PLAIN CONC DITCH PAVING, 4 IN	40.000	42.06	1682.79
0250	603-2182	SY	STN DUMPED RIP RAP, TP 3, 24"	90.000	48.94	4405.26
0255	603-7000	SY	PLASTIC FILTER FABRIC	90.000	3.86	348.19
0260	700-6910	AC	PERMANENT GRASSING	60.000	988.41	59304.99
0265	700-7000	TN	AGRICULTURAL LIME	121.000	71.81	8689.63
0270	700-8000	TN	FERTILIZER MIXED GRADE	54.000	597.44	32262.28
0275	700-8100	LB	FERTILIZER NITROGEN CONTENT	3000.000	1.86	5601.84
0280	710-9000	SY	PERM SOIL REINFORCING MAT	95045.000	3.13	297679.99
0285	716-1000	SY	EROSION CONTROL MATS,WATERWAYS	40.000	2.11	84.73
0290	716-2000	SY	EROSION CONTROL MATS, SLOPES	40.000	1.56	62.50
0295	163-0232	AC	TEMPORARY GRASSING	30.000	204.84	6145.31
0300	163-0240	TN	MULCH	273.000	182.38	49791.43
0305	163-0300	EA	CONSTRUCTION EXIT	4.000	1274.78	5099.15
0310	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	20.000	276.89	5538.00
0315	163-0529	LF	CNST/REM TEMP SED BAR OR BLD STRW CK DM	1800.000	3.81	6868.58
0320	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	11.000	555.17	6106.92
0325	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	93.000	126.51	11765.60
0330	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	64200.000	0.26	16784.45
0335	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	4550.000	0.59	2729.14
0340	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	465.000	1.89	879.31
0345	165-0071	LF	MAINT OF SEDIMENT BARRIER - BALED STRAW	900.000	1.12	1010.82
0350	165-0101	EA	MAINT OF CONST EXIT	4.000	569.89	2279.56
0355	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	77.000	33.94	2613.38
0360	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	223.90	447.81
0365	167-1500	MO	WATER QUALITY INSPECTIONS	36.000	481.70	17341.41
0370	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	128400.000	1.50	193609.22
0375	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	9100.000	2.97	27097.89
0380	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	9100.000	1.25	11418.32
0390	610-6520	EA	REM HWY SIGN, SPCL ROADSIDE	6.000	900.50	5403.00
0395	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	68.000	14.47	984.58
0400	636-1029	SF	HWY SGN,TP2 MATL,REFL SH TP 3	180.000	15.38	2769.10
0405	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	32.000	33.84	1082.89
0410	636-1072	SF	HWY SIGNS,ALUM EXTRD PNLS, RS TP 3	1413.000	24.12	34094.87
0415	636-2070	LF	GALV STEEL POSTS, TP 7	216.000	6.94	1500.65
0420	636-2080	LF	GALV STEEL POSTS, TP 8	534.000	8.86	4731.51
0425	636-3000	LB	GALV STEEL STR SHAPE POST	2292.000	5.06	11612.03
0430	636-3010	EA	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	27.000	438.73	11845.98
0440	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 582+90	1.000	76250.00	76250.00
0445	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 619+22	1.000	76250.00	76250.00

JOB ESTIMATE REPORT

0450	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 645+62	1.000	76250.00	76250.00
0455	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 672+02	1.000	76250.00	76250.00
0460	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	200.000	6.16	1232.42
0464	653-1810	LF	THER SLD TRAF STRIPE, 10 IN, W	980.000	1.86	1825.06
0465	653-2501	LM	THERMO SOLID TRAF ST, 5 IN, WH	12.000	1627.41	19528.93
0470	653-2502	LM	THERMO SOLID TRAF ST, 5 IN YE	12.000	1643.95	19727.43
0475	653-4501	GLM	THERMO SKIP TRAF ST, 5 IN, WHI	24.000	1074.84	25796.16
0480	654-1001	EA	RAISED PVMT MARKERS TP 1	50.000	4.61	230.96
0485	654-1003	EA	RAISED PVMT MARKERS TP 3	1640.000	3.12	5125.72
0490	654-1007	EA	RAISED PVMT MARKERS TP 7	39600.000	9.38	371448.00
0520	615-1200	LF	DIRECTIONAL BORE - 5"	100.000	15.45	1545.24
0525	639-4004	EA	STRAIN POLE, TP IV	2.000	7246.37	14492.75
0530	647-2130	EA	PULL BOX, PB-3	1.000	60.00	60.00
0535	647-2140	EA	PULL BOX, PB-4	2.000	805.00	1610.00
0540	682-6120	LF	CONDUIT, RIGID, 2 IN	650.000	11.50	7479.88
0545	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	650.000	3.75	2442.66
0550	682-6520	LF	CONDUIT, FIBERGLASS, 2 IN	660.000	26.64	17582.40
0555	682-9010	EA	SVC POLE RISER	2.000	3233.99	6468.00
0560	682-9023	EA	ELEC JCT BX,GALVANIZED, SIZE -	8.000	205.00	1640.00
0565	935-1111	LF	OUT PLANT FBR OPTC CBL,LOOSE TB,SM,6 FBR	850.000	1.36	1156.00
0570	935-1115	LF	OUT PLNT FBR OPT CBL,LOOSE TB,SM,48 FBR	550.000	2.57	1415.60
0575	935-3405	EA	FBR OPTIC CLOSURE,FDC(RACK MTD),48 FBR	1.000	2100.00	2100.00
0580	935-5050	EA	FIBER OPTIC PATCH CORD, SM	2.000	88.78	177.56
0585	936-1001	EA	CCTV SYSTEM,TYPE B	2.000	6392.17	12784.34
0590	936-8000	LS	TESTING	1.000	4143.07	4143.07
0595	936-8500	LS	TRAINING	1.000	2959.33	2959.33
0600	939-1190	EA	VIDEO ENCODER, TYPE A	2.000	6510.54	13021.08
0605	939-1195	EA	VIDEO DECODER, TYPE A	2.000	6510.54	13021.08
0610	939-1355	EA	DSL MODEM	2.000	2663.41	5326.82
0615	939-1360	EA	FIELD PC	2.000	20123.48	40246.96
0620	939-2300	EA	FIELD SWITCH, TYPE A	2.000	4261.45	8522.90
0625	939-4050	EA	TYPE E CABINET	2.000	5681.93	11363.86
0630	939-5010	EA	ELEC PWR SVC ASSEMBLY,AERIAL SVC POINT	1.000	3551.21	3551.21
0635	150-5010	EA	TRAF CTRL,PORTABLE IMPACT ATTN	20.000	7943.69	158873.99
0640	310-1101	TN	GR AGGR BASE CRS, INCL MATL	3290.000	24.56	80810.59
0645	318-3000	TN	AGGR SURF CRS	15000.000	15.56	233533.05
0650	402-1812	TN	RECYL AC LEVELING,INC BM&HL	2470.000	74.80	184769.68
0655	402-3121	TN	RECYL AC 25MM SP,GP1/2,BM&HL	810.000	78.01	63189.53
0659	402-3130	TN	RECYL AC 12.5MM SP,GP2,BM&HL	9110.000	70.71	644209.28
0660	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	1200.000	77.72	93268.46
0665	413-1000	GL	BITUM TACK COAT	450.000	4.35	1959.89
0670	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	12600.000	2.71	34193.38
0675	550-1120	LF	STM DR PIPE, 12", H 1-10	768.000	7.00	5376.00
0680	620-0100	LF	TEMP BARRIER, METHOD NO. 1	60000.000	22.33	1340230.20
0685	668-2100	EA	DROP INLET, GP 1	16.000	1799.92	28798.77
0690	500-3101	CY	CLASS A CONCRETE	50.000	809.89	40494.73
0695	511-1000	LB	BAR REINF STEEL	5000.000	1.03	5187.35
0700	518-1000	LS	RAISE EXISTING BRIDGE, STA - 600+20.72	1.000	235000.00	235000.00
0705	500-3101	CY	CLASS A CONCRETE	50.000	809.89	40494.73

JOB ESTIMATE REPORT

0710	511-1000	LB	BAR REINF STEEL	5000.000	1.03	5187.35
0715	518-1000	LS	RAISE EXISTING BRIDGE, STA - 669+76.35	1.000	235000.00	235000.00
0720	500-3101	CY	CLASS A CONCRETE	50.000	809.89	40494.73
0725	511-1000	LB	BAR REINF STEEL	5000.000	1.03	5187.35
0730	518-1000	LS	RAISE EXISTING BRIDGE, STA - 729+47.23	1.000	235000.00	235000.00
0735	500-3101	CY	CLASS A CONCRETE	50.000	809.89	40494.73
0740	511-1000	LB	BAR REINF STEEL	5000.000	1.03	5187.35
0745	518-1000	LS	RAISE EXISTING BRIDGE, STA - 851+90.11	1.000	235000.00	235000.00

ITEM TOTAL	57741156.47
INFLATED ITEM TOTAL	57741156.48

TOTALS FOR JOB 0012801_HMA

ESTIMATED COST:	57741156.48
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	57741156.48

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP/MERIWETHER - HMA OPTION	CALL NO.	
P.I. NO.	0012801		
DATE	1/20/2015		

INDEX (TYPE)	**DATE**	**INDEX**
REG. UNLEADED	Jan-15	
DIESEL		
LIQUID AC		$ 556.00

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)			**$ 5,243,074.44**	**$ 5,243,074.44**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			15716.65	

ASPHALT	**Tons**	**%AC**	**AC ton**
Leveling	40002	5.0%	2000.1
12.5 OGFC	107232	5.0%	5361.6
12.5 mm	9659	5.0%	482.95
9.5 mm SP	0	5.0%	0
25 mm SP	810	5.0%	40.5
19 mm SP	156630	5.0%	7831.5
	314333		**15716.65**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$ 109,281.71**	**$ 109,281.71**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			327.5830522	

Bitum Tack Gals	gals/ton	tons
76269	232.8234	327.583052

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP/MERIWETHER - HMA OPTION	CALL NO.	
P.I. NO.	0012801		
DATE	1/20/2015		

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	889.60	
Monthly Asphalt Cement Price month project let (APL)			$	556.00	
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	**$**	**5,352,356.15**

COST ESTIMATE

PROJECT: MSL00-0003-00(246)

COUNTY: TROUP/MERIWETHER

PI NUMBER: 0003246

PROJECT LENGTH: 14.947 MILES

From Just North Of S.R. 109 in Troup County To

Just North of Forrest Road in Meriwether County

Original Concept (Conditionally Approved)

PROJ. NO.: MSL00-0003-00(246) TROUP/MERIWETHER(Cond. Appr. Concept)
P.I. NO. 0003246
DATE: 1/20/2015

Base Construction Cost		$	168,456,484.69
E & I	5%	$	8,422,824.23
Construction Contingency	20%	$	35,375,861.78
Subtotal Construction Cost		$	212,255,170.71
Liquid AC Adjustment (60 % cap)		$	7,739,123.17
Total Construction Cost		$	219,994,293.88

JOB ESTIMATE REPORT

JOB NUMBER : 0003246_UPD SPEC YEAR: 01
DESCRIPTION: PRE DIVIDE - 0003246
I 85 FROM NORTH OF SR 109/TROUP TO N OF CR 417/MERIWETHER

ITEMS FOR JOB 0003246_UPD

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - MSL-0003-00(246)	1.000	17600000.00	17600000.00
0010	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	83619.18	83619.18
0015	201-1500		LS	CLEARING & GRUBBING - MSL-0003-00(246)	1.000	270000.00	270000.00
0020	205-0001		CY	UNCLASS EXCAV	101848.000	9.88	1006693.13
0025	206-0002		CY	BORROW EXCAV, INCL MATL	1324087.000	4.60	6092839.29
0030	310-1101		TN	GR AGGR BASE CRS, INCL MATL	426352.000	16.21	6913408.53
0035	318-3000		TN	AGGR SURF CRS	500.000	19.71	9858.54
0040	402-1812		TN	RECYL AC LEVELING,INC BM&HL	154940.000	64.72	10029021.39
0045	402-3130		TN	RECYL AC 12.5MM SP,GP2,BM&HL	926.000	96.27	89148.10
0050	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	273943.000	56.30	15425711.15
0055	413-1000		GL	BITUM TACK COAT	76000.000	2.56	195130.76
0060	430-0200		SY	PLN PC CONC PVMT/CL1C/ 10" TK	261130.000	32.80	8565064.00
0065	430-0610		SY	PLN PC CONC PVMT/HES/ 11" TK	40038.000	50.00	2001900.00
0070	430-0810		SY	C REF CONC PVMT/CL1C/ 11" TK	1111655.000	60.00	66699300.00
0075	430-1210		SY	C REF CONC PVMT/HES/ 11" TK	47887.000	60.00	2873220.00
0080	433-1000		SY	REINF CONC APPROACH SLAB	4372.000	160.53	701865.75
0083	436-1000		LF	ASPH CONC CURB - 6"	75000.000	4.04	303712.50
0084	441-0004		SY	CONC SLOPE PAV, 4 IN	500.000	47.53	23765.13
0089	441-0301		EA	CONC SPILLWAY, TP 1	21.000	1640.63	34453.38
0090	452-1000		CY	FULL DEPTH SLAB REPLACEMENT	2000.000	93.74	187480.00
0095	461-1000		LF	RESEAL RDWAY JTS & CRACKS, TP- A	5000.000	2.47	12350.00
0100	500-3101		CY	CLASS A CONCRETE	100.000	666.13	66613.05
0105	500-3200		CY	CL B CONC	255.000	343.85	87683.48
0110	511-1000		LB	BAR REINF STEEL	2543.000	1.13	2890.09
0115	550-1180		LF	STM DR PIPE 18",H 1-10	51806.000	30.44	1577126.95
0120	550-1240		LF	STM DR PIPE 24",H 1-10	8166.000	40.46	330426.41
0125	550-1300		LF	STM DR PIPE 30",H 1-10	72.000	61.88	4456.02
0130	550-4218		EA	FLARED END SECT 18 IN, ST DR	33.000	519.28	17136.56
0135	550-4224		EA	FLARED END SECT 24 IN, ST DR	18.000	625.68	11262.25
0140	550-4230		EA	FLARED END SECT 30 IN, ST DR	2.000	723.17	1446.35
0145	573-2006		LF	UNDDR PIPE INCL DRAIN AGGR 6"	7500.000	16.73	125488.50
0150	576-1010		LF	SLOPE DRAIN PIPE, 10 IN	1092.000	25.70	28067.62
0155	577-1100		EA	METAL DR INLET - CMPLT ASSMBLY	218.000	989.48	215707.56
0160	600-0001		CY	FLOWABLE FILL	460.000	234.56	107901.76
0165	611-3010		EA	RECONSTR DROP INLET, GROUP 1	6.000	1861.09	11166.60
0170	611-8040		EA	ADJUST DROP INLET TO GRADE	8.000	769.20	6153.62
0175	615-1000		LF	JACK OR BORE PIPE - 18"	888.000	170.74	151620.28
0180	615-1000		LF	JACK OR BORE PIPE - 24"	1102.000	163.35	180021.75
0185	615-1000		LF	JACK OR BORE PIPE - 30"	178.000	237.28	42236.90
0190	621-3125		LF	CONC BARRIER, TP 25S, MODIFIED	164.000	451.09	73978.76
0195	621-3126		LF	CONCRETE BARRIER, TP 26S	400.000	294.09	117636.00
0200	621-6001		LF	CONC BARRIER, TP S-1	1361.000	83.19	113221.59
0205	621-6002		LF	CONC BARRIER, TP S-2	13555.000	99.60	1350078.00

JOB ESTIMATE REPORT

0210	621-6003	LF	CONC BARRIER, TP S-3	1870.000	210.90	394383.00
0215	641-1100	LF	GUARDRAIL, TP T	700.000	38.07	26650.85
0220	641-1200	LF	GUARDRAIL, TP W	69000.000	14.77	1019372.19
0225	641-5001	EA	GUARDRAIL ANCHORAGE, TP 1	60.000	774.20	46452.49
0230	641-5012	EA	GUARDRAIL ANCHORAGE, TP 12	120.000	1872.80	224736.59
0234	642-0100	LF	CABLE BARRIER	62000.000	17.00	1054000.00
0235	643-0155	LF	FIELD FENCE SPCL DESIGN	152000.000	11.72	1781440.00
0240	649-0018	LF	CONCRETE GLARE SCREEN, 18 INCH	17400.000	22.82	397140.04
0245	648-1350	EA	IMPACT ATT UNIT, TP-P- 3-B-28	1.000	19506.18	19506.18
0250	648-1350	EA	IMPACT ATT UNIT, TP-P- 3-B-37	3.000	17476.53	52429.59
0255	668-2100	EA	DROP INLET, GP 1	314.000	1948.96	611975.38
0260	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	80.000	180.32	14425.62
0270	441-0204	SY	PLAIN CONC DITCH PAVING, 4 IN	100.000	39.04	3904.09
0275	603-2182	SY	STN DUMPED RIP RAP, TP 3, 24"	282.000	45.43	12812.79
0280	603-7000	SY	PLASTIC FILTER FABRIC	282.000	3.67	1037.64
0285	700-6910	AC	PERMANENT GRASSING	181.000	930.18	168362.71
0289	700-7000	TN	AGRICULTURAL LIME	362.000	86.35	31259.01
0295	700-8000	TN	FERTILIZER MIXED GRADE	163.000	597.44	97384.30
0300	700-8100	LB	FERTILIZER NITROGEN CONTENT	9050.000	1.74	15824.47
0305	710-9000	SY	PERM SOIL REINFORCING MAT	183445.000	2.94	539931.83
0310	716-1000	SY	EROSION CONTROL MATS,WATERWAYS	100.000	2.11	211.83
0315	716-2000	SY	EROSION CONTROL MATS, SLOPES	100.000	1.45	145.05
0320	163-0232	AC	TEMPORARY GRASSING	91.000	171.83	15636.79
0325	163-0240	TN	MULCH	816.000	152.38	124348.44
0330	163-0300	EA	CONSTRUCTION EXIT	16.000	1425.95	22815.20
0335	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	50.000	298.63	14931.57
0340	163-0529	LF	CNST/REM TEMP SED BAR OR BLD STRW CK DM	5100.000	3.80	19392.09
0345	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	42.000	507.26	21305.12
0346	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	365.000	118.81	43368.81
0350	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	164200.000	0.21	35677.38
0355	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	10300.000	0.50	5150.62
0360	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	1380.000	0.90	1253.99
0365	165-0071	LF	MAINT OF SEDIMENT BARRIER - BALED STRAW	2550.000	0.95	2446.70
0370	165-0101	EA	MAINT OF CONST EXIT	16.000	553.64	8858.33
0375	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	325.000	24.67	8020.91
0380	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	223.90	447.81
0385	167-1500	MO	WATER QUALITY INSPECTIONS	36.000	486.66	17519.82
0390	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	328400.000	1.41	464725.41
0395	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	20600.000	2.79	57501.60
0399	643-8200	LF	BARRIER FENCE (ORANGE), 4 FT	20600.000	1.20	24838.66
0410	610-6510	EA	REM HWY SIGN, OVHD - 106+50,237+75L, 237+75R,250+00,355+00	5.000	578.63	2893.18
0415	610-6520	EA	REM HWY SIGN, SPCL ROADSIDE	21.000	900.50	18910.50
0420	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	178.000	14.38	2561.28
0425	636-1029	SF	HWY SGN,TP2 MATL,REFL SH TP 3	692.000	15.27	10569.62
0430	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	224.000	34.39	7704.96
0435	636-1072	SF	HWY SIGNS,ALUM EXTRD PNLS, RS TP 3	4964.000	19.48	96731.78
0440	636-2070	LF	GALV STEEL POSTS, TP 7	553.000	7.68	4251.95
0445	636-2080	LF	GALV STEEL POSTS, TP 8	2070.000	8.93	18502.82
0450	636-3000	LB	GALV STEEL STR SHAPE POST	10193.000	4.37	44615.47

JOB ESTIMATE REPORT

0455	636-3010	EA	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	97.000	459.15	44538.02
0460	636-9094	LF	P-IN-PL,SIGNS,STL H,HP 12 X 53	62.000	87.72	5439.26
0462	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 76+00	1.000	80828.40	80828.40
0463	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 101+00	1.000	76250.00	76250.00
0464	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 107+00	1.000	76250.00	76250.00
0465	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 130+80	1.000	76250.00	76250.00
0466	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 237+50	1.000	76250.00	76250.00
0467	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 290+00	1.000	76250.00	76250.00
0468	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 343+00	1.000	76250.00	76250.00
0469	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 530+10	1.000	76250.00	76250.00
0470	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 556+50	1.000	76250.00	76250.00
0471	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 582+90	1.000	76250.00	76250.00
0472	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 619+22	1.000	76250.00	76250.00
0473	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 645+62	1.000	76250.00	76250.00
0474	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 672+02	1.000	76250.00	76250.00
0480	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	500.000	5.44	2720.55
0485	653-2501	LM	THERMO SOLID TRAF ST, 5 IN, WH	1.000	1673.54	1673.54
0490	653-2502	LM	THERMO SOLID TRAF ST, 5 IN YE	1.000	1686.08	1686.08
0495	653-4501	GLM	THERMO SKIP TRAF ST, 5 IN, WHI	1.000	1108.55	1108.55
0500	654-1001	EA	RAISED PVMT MARKERS TP 1	110.000	4.86	534.64
0505	654-1003	EA	RAISED PVMT MARKERS TP 3	4500.000	3.76	16960.86
0510	654-1007	EA	RAISED PVMT MARKERS TP 7	106000.000	9.38	994280.00
0515	657-1104	LF	PRF PL SD PVMT MKG,10",WH,TPPB	3500.000	7.03	24605.00
0520	657-2054	LM	PRF PL SD PVMT MKG,5",WH,TP PB	31.000	18570.81	575695.11
0525	657-3054	GLF	PRF PL SK PVMT MKG,5",WH,TP PB	3500.000	4.69	16415.00
0530	657-4085	GLM	PRF PL SK PVMT MKG,8",B/W,TPPB	61.000	17569.04	1071711.44
0535	657-7054	LM	PRF PL SD PVMT MKG,5",YE,TP PB	31.000	18570.81	575695.11
0540	615-1200	LF	DIRECTIONAL BORE - 5"	570.000	13.10	7467.75
0545	639-4004	EA	STRAIN POLE, TP IV	4.000	7246.37	28985.49
0550	647-2130	EA	PULL BOX, PB-3	17.000	55.66	946.22
0555	647-2140	EA	PULL BOX, PB-4	18.000	801.36	14424.48
0560	682-6120	LF	CONDUIT, RIGID, 2 IN	13300.000	11.30	150365.68
0565	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	13300.000	3.54	47170.05
0570	682-6520	LF	CONDUIT, FIBERGLASS, 2 IN	1810.000	26.64	48218.40
0575	682-9010	EA	SVC POLE RISER	4.000	3233.99	12935.99
0580	682-9023	EA	ELEC JCT BX,GALVANIZED, SIZE -	12.000	205.00	2460.00
0585	935-1111	LF	OUT PLANT FBR OPTC CBL,LOOSE TB,SM,6 FBR	3400.000	1.36	4624.00
0590	935-1115	LF	OUT PLNT FBR OPT CBL,LOOSE TB,SM,48 FBR	13850.000	2.57	35647.41
0595	935-3405	EA	FBR OPTIC CLOSURE,FDC(RACK MTD),48 FBR	3.000	2100.00	6300.00
0600	935-5050	EA	FIBER OPTIC PATCH CORD, SM	4.000	88.78	355.12
0605	936-1001	EA	CCTV SYSTEM,TYPE B	4.000	6300.13	25200.52
0610	936-8000	LS	TESTING	1.000	8500.00	8500.00
0615	936-8500	LS	TRAINING	1.000	7000.00	7000.00
0620	939-1190	EA	VIDEO ENCODER, TYPE A	4.000	6510.54	26042.16
0625	939-1195	EA	VIDEO DECODER, TYPE A	4.000	6510.54	26042.16
0630	939-1355	EA	DSL MODEM	4.000	2663.41	10653.64
0635	939-1360	EA	FIELD PC	4.000	20123.48	80493.92
0640	939-2300	EA	FIELD SWITCH, TYPE A	4.000	4261.45	17045.80
0645	939-4050	EA	TYPE E CABINET	4.000	5681.93	22727.72
0650	939-5010	EA	ELEC PWR SVC ASSEMBLY,AERIAL SVC POINT	2.000	3551.21	7102.42

JOB ESTIMATE REPORT

0655	939-8000	LS	TESTING	1.000	10700.00	10700.00
0660	939-8500	LS	TRAINING	1.000	9200.00	9200.00
0665	150-5010	EA	TRAF CTRL,PORTABLE IMPACT ATTN	51.000	7583.36	386751.80
0670	310-1101	TN	GR AGGR BASE CRS, INCL MATL	4370.000	23.85	104256.71
0675	318-3000	TN	AGGR SURF CRS	39200.000	14.56	570912.33
0680	402-1812	TN	RECYL AC LEVELING,INC BM&HL	5650.000	78.21	441939.33
0685	402-3121	TN	RECYL AC 25MM SP,GP1/2,BM&HL	810.000	76.62	62068.19
0689	402-3130	TN	RECYL AC 12.5MM SP,GP2,BM&HL	19410.000	63.85	1239373.53
0690	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	1730.000	81.55	141087.47
0695	413-1000	GL	BITUM TACK COAT	450.000	5.77	2600.96
0700	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	31700.000	2.50	79354.61
0705	550-1120	LF	STM DR PIPE, 12", H 1-10	1824.000	5.17	9430.08
0710	620-0100	LF	TEMP BARRIER, METHOD NO. 1	93000.000	21.68	2017045.38
0715	668-2100	EA	DROP INLET, GP 1	40.000	1948.96	77958.65
0745	211-0300	CY	BR EXCAV, STREAM CROSSING - BEECH CREEK	534.000	32.62	17422.53
0750	500-0100	SY	GROOVED CONCRETE	4826.000	4.40	21280.97
0755	500-1006	LS	SUPERSTR CONCRETE, CL AA, BR NO - 1	1.000	588200.00	588200.00
0760	500-2100	LF	CONCRETE BARRIER	1136.000	39.09	44416.71
0765	500-3002	CY	CL AA CONCRETE	952.000	649.65	618474.32
0770	507-9002	LF	PSC BEAMS,AASHTO TP II, BR NO- 1	6248.000	106.86	667707.02
0775	511-1000	LB	BAR REINF STEEL	209440.000	0.69	146572.40
0780	511-3000	LS	SUPERSTR REINF STEEL, BR NO - 1	1.000	112104.00	112104.00
0785	514-1000	LS	EPOXY COAT/SUP REINF ST BR NO- 1	1.000	82300.00	82300.00
0790	520-1125	LF	PIL-IN-PL,STEEL H,HP 12 X 53	3680.000	43.43	159849.89
0795	520-4125	EA	LOAD TEST, STEEL H, HP 12 X 53	2.000	0.77	1.54
0800	603-2024	SY	STN DUMPED RIP RAP, TP 1, 24"	822.000	44.63	36690.10
0805	620-0200	LF	TEMP BARRIER, METHOD NO. 2	568.000	51.58	29298.35
0810	649-0018	LF	CONCRETE GLARE SCREEN, 18 INCH	568.000	22.82	12964.11
0815	211-0300	CY	BR EXCAV, STREAM CROSSING - FLAT CREEK	356.000	32.62	11615.02
0820	500-0100	SY	GROOVED CONCRETE	4078.000	4.68	19109.67
0825	500-1006	LS	SUPERSTR CONCRETE, CL AA, BR NO - 2	1.000	496400.00	496400.00
0830	500-2100	LF	CONCRETE BARRIER	960.000	40.31	38701.06
0833	500-3002	CY	CL AA CONCRETE	608.000	567.77	345208.35
0834	507-9002	LF	PSC BEAMS,AASHTO TP II, BR NO- - FLAT CREEK	2640.000	112.91	298095.73
0835	507-9031	LF	PSC BEAMS,AASHTO,BULB TEE, 63"	2640.000	143.77	379569.96
0840	511-1000	LB	BAR REINF STEEL	133760.000	0.73	98339.01
0845	511-3000	LS	SUPERSTR REINF STEEL, BR NO - 2	1.000	94608.00	94608.00
0850	514-1000	LS	EPOXY COAT/SUP REINF ST BR NO- 2	1.000	69438.00	69438.00
0855	520-1125	LF	PIL-IN-PL,STEEL H,HP 12 X 53	7315.000	40.58	296906.19
0860	520-4125	EA	LOAD TEST, STEEL H, HP 12 X 53	2.000	0.77	1.54
0865	603-2024	SY	STN DUMPED RIP RAP, TP 1, 24"	850.000	44.51	37839.05
0870	620-0200	LF	TEMP BARRIER, METHOD NO. 2	480.000	52.02	24974.34
0875	649-0018	LF	CONCRETE GLARE SCREEN, 18 INCH	480.000	22.82	10955.59
0880	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0885	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0890	518-1000	LS	RAISE EXISTING BRIDGE, STA - 143+66.94	1.000	235000.00	235000.00
0895	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0900	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0905	518-1000	LS	RAISE EXISTING BRIDGE, STA - 164+02.26	1.000	235000.00	235000.00
0910	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34

JOB ESTIMATE REPORT

0915	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0920	518-1000	LS	RAISE EXISTING BRIDGE, STA - 253+88.49	1.000	235000.00	235000.00
0925	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0930	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0935	518-1000	LS	RAISE EXISTING BRIDGE, STA - 461+18.31	1.000	235000.00	235000.00
0940	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0945	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0950	518-1000	LS	RAISE EXISTING BRIDGE, STA - 600+20.72	1.000	235000.00	235000.00
0955	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0960	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0965	518-1000	LS	RAISE EXISTING BRIDGE, STA - 669+76.35	1.000	235000.00	235000.00
0970	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0975	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0980	518-1000	LS	RAISE EXISTING BRIDGE, STA - 729+47.23	1.000	235000.00	235000.00
0985	500-3101	CY	CLASS A CONCRETE	50.000	884.32	44216.34
0990	511-1000	LB	BAR REINF STEEL	5000.000	1.05	5275.45
0995	518-1000	LS	RAISE EXISTING BRIDGE, STA - 851+90.11	1.000	235000.00	235000.00

ITEM TOTAL	168456484.69
INFLATED ITEM TOTAL	168456484.69

TOTALS FOR JOB 0003246_UPD

ESTIMATED COST:	168456484.69
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	168456484.69

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP/MERIWETHER(Cond. Appr. Concep	CALL NO.	
P.I. NO.	0003246		
DATE	1/20/2015		

INDEX (TYPE)	**DATE**	**INDEX**
REG. UNLEADED	Jan-15	
DIESEL		
LIQUID AC		$ 556.00

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)			**$ 7,629,582.12**	**$ 7,629,582.12**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			22870.45	

ASPHALT	**Tons**	**%AC**	**AC ton**
Leveling	160590	5.0%	8029.5
12.5 OGFC	0	5.0%	0
12.5 mm	20336	5.0%	1016.8
9.5 mm SP	0	5.0%	0
25 mm SP	810	5.0%	40.5
19 mm SP	275673	5.0%	13783.65
	457409		**22870.45**

BITUMINOUS TACK COAT

Price Adjustment (PA)			**$ 109,541.05**	**$ 109,541.05**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$ 889.60	
Monthly Asphalt Cement Price month project let (APL)			$ 556.00	
Total Monthly Tonnage of asphalt cement (TMT)			328.3604655	

Bitum Tack Gals	gals/ton	tons
76450	232.8234	328.360465

9/29/2009

PROJ. NO.	MSL00-0003-00(246) TROUP/MERIWETHER(Cond. Appr. Concep	CALL NO.	
P.I. NO.	0003246		
DATE	1/20/2015		

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				**0**	**$ -**
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	$	889.60	
Monthly Asphalt Cement Price month project let (APL)			$	556.00	
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	**$**	**7,739,123.17**

Cost Comparison:

Original P.I. 0003246 Troup/Meriwether Cos.
(Conditionally Approved Concept)

And

P.I. 0003246 Troup Co., P.I. 0012800 Troup Co.
& P.I. 0012801 Troup/Meriwether Cos.

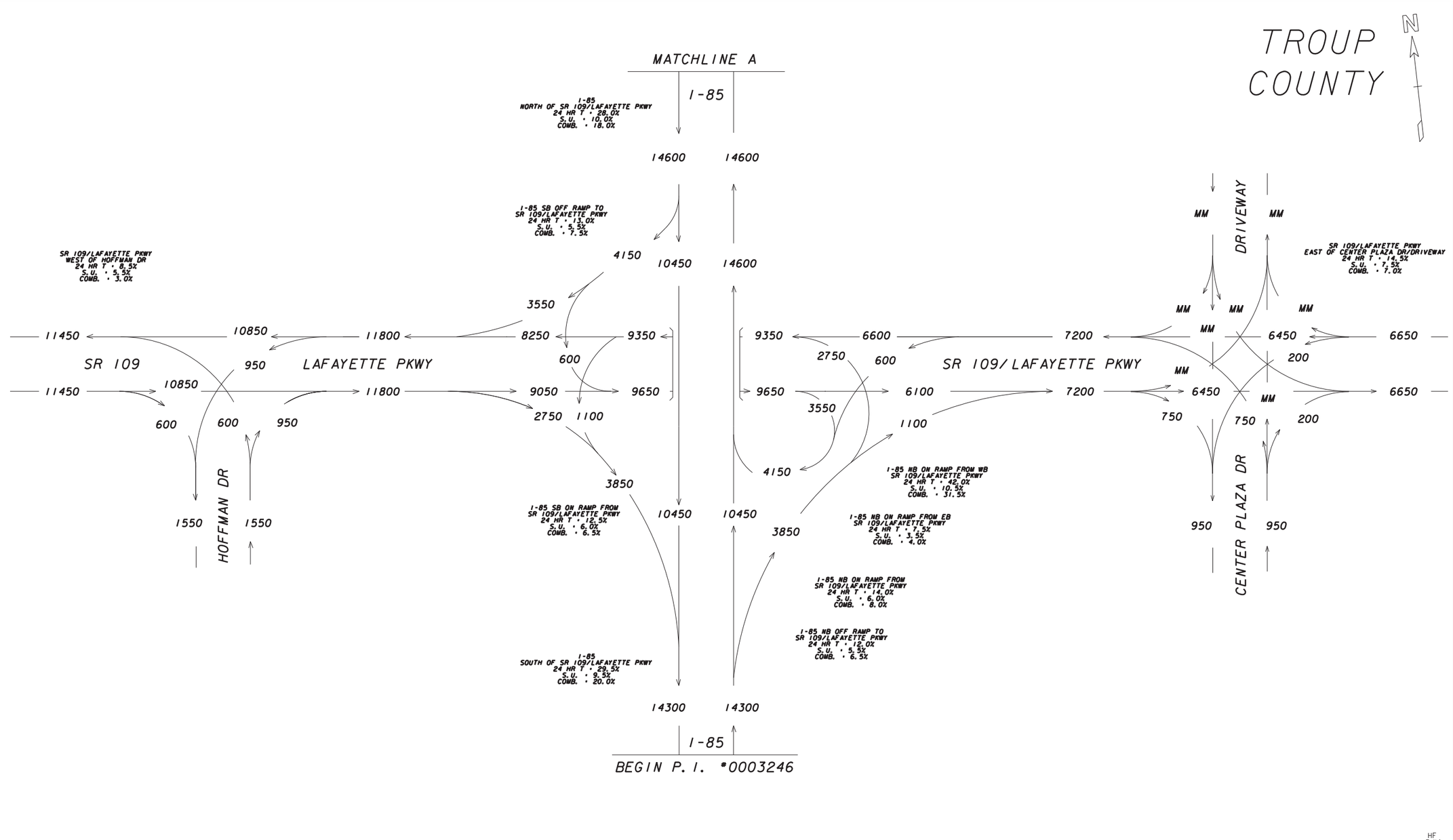
Project/ Length	Revised Cost for Original Concept (Conditionally Approved)	Revised Cost for PCC Option	Revised Cost for HMA Option
P.I. 0003246, Troup/Meriwether 14.952 Miles	$219,994,293.88	$206,884,133.26*	$223,193,059.14*
P.I. 0003246, Troup 3.343 Miles		$52,462,912.16	$56,644,963.81
P.I. 0012800, Troup 5.909 Miles		$82,070,932.76	$88,441,882.02
P.I. 0012801, Troup/Meriwether 5.682 Miles		$72,350,288.34	$78,106,213.31

* Note: Combined total of P.I. 0003246 Troup County, P.I. 0012800 Troup County and P.I. 0012801 Troup/Meriwether Counties

ATTACHMENT 4

TRAFFIC DIAGRAMS

DATE$$$	TIME$$$	$PRF8$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	0003246	1	2



HF
5/14

PI# 0003246
TROUP COUNTY
I-85 FM 0.257 MILE NORTH OF
SR 109 TO 1.628 MILE NORTH OF
I-185

2014 ADT
EXISTING

GRICE CONSULTING
GROUP

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No.
10-1

12/14/2012 GPLN

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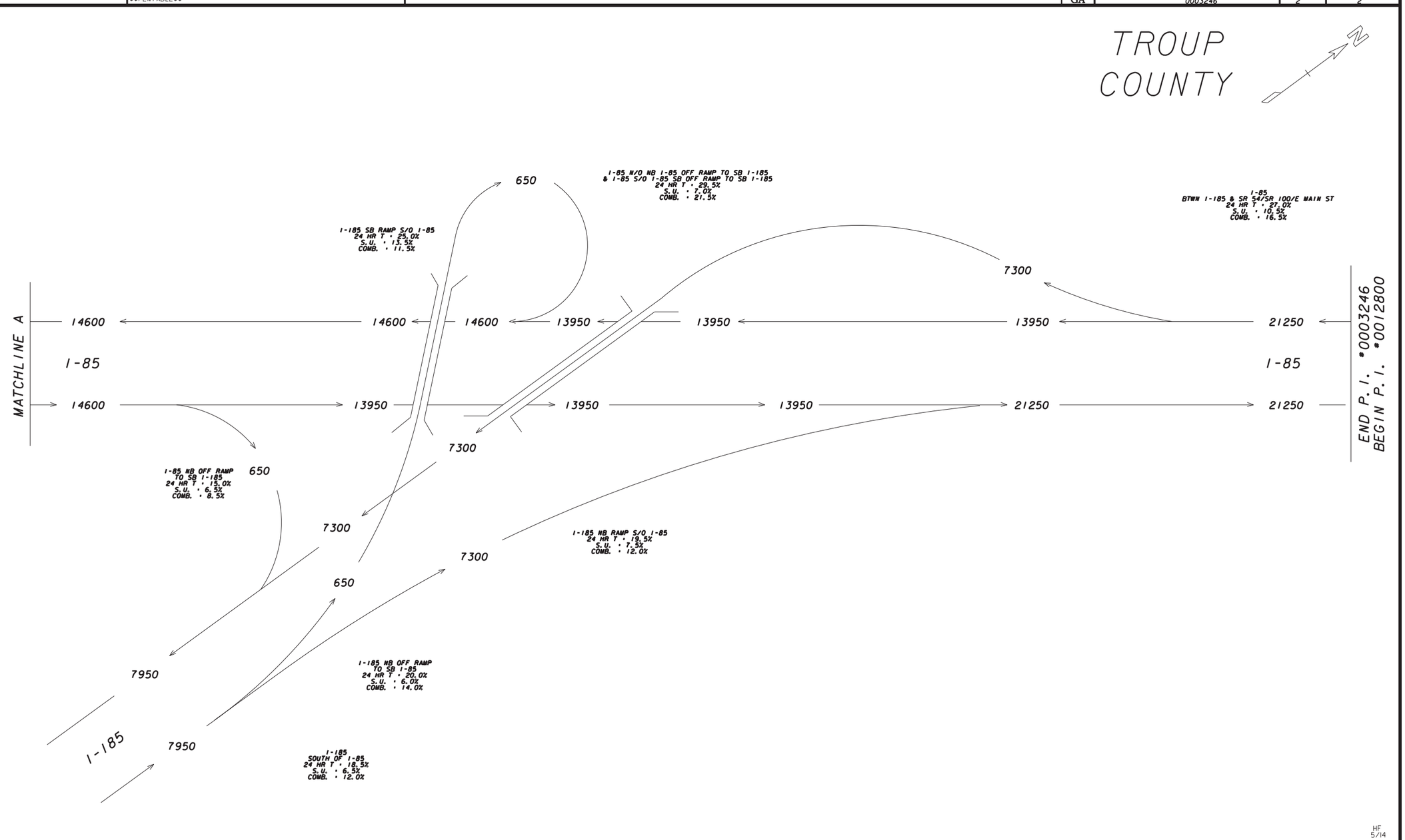

PI# 0003246
TROUP COUNTY
I-85 FM 0.257 MILE NORTH OF
SR 109 TO 1.628 MILE NORTH OF
I-185

2014 ADT
EXISTING

GRICE CONSULTING
GROUP

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No.
10-2

12/14/2012 GPLN

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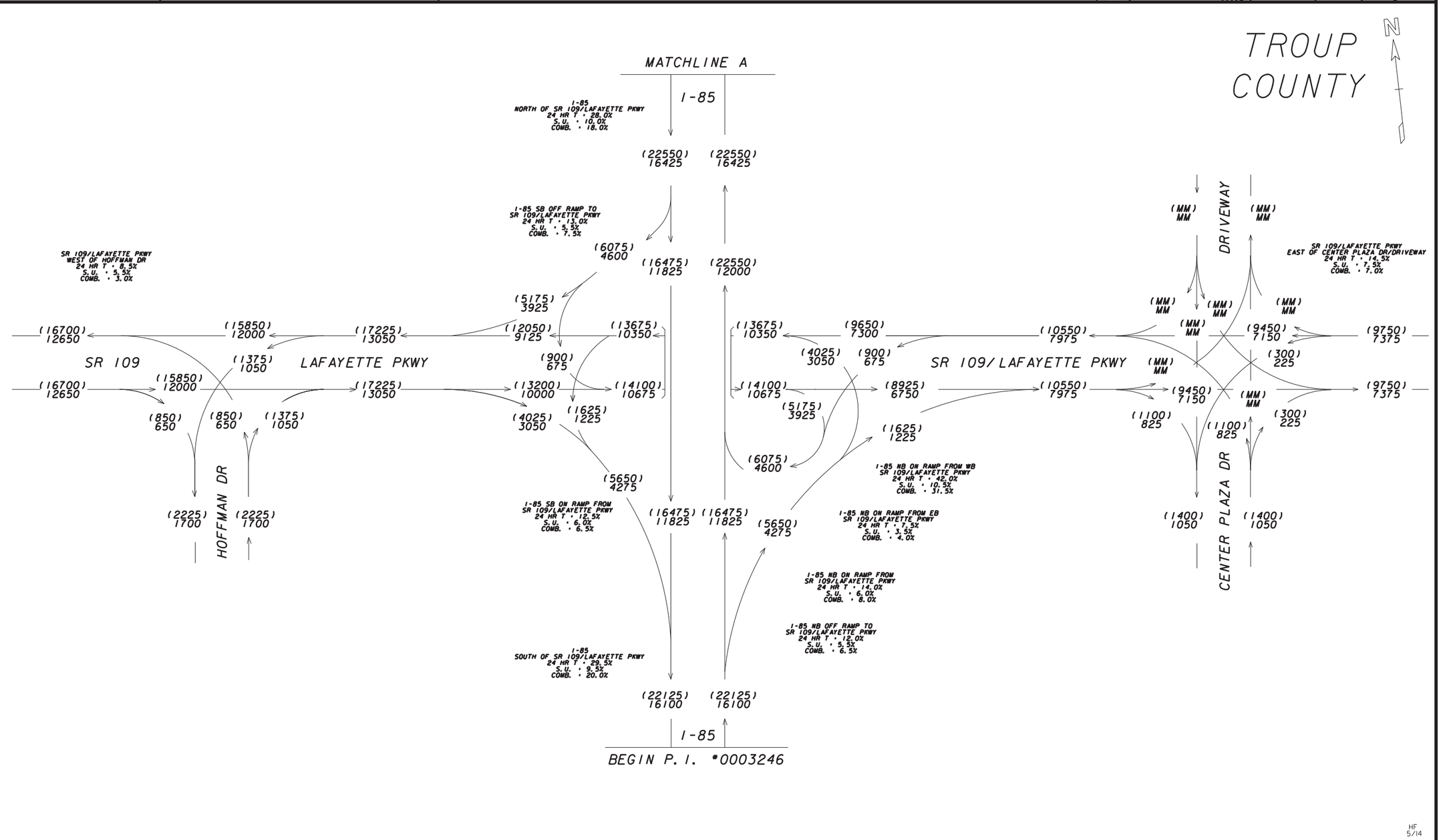

HF
5/14

PI# 0003246
TROUP COUNTY
I-85 FM 0.257 MILE NORTH OF
SR 109 TO 1.628 MILE NORTH OF
I-185

2040 ADT= (000)
2020 ADT= 000
NO BUILD

GRICE CONSULTING GROUP

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No. 10-3

12/14/2012 GPLN

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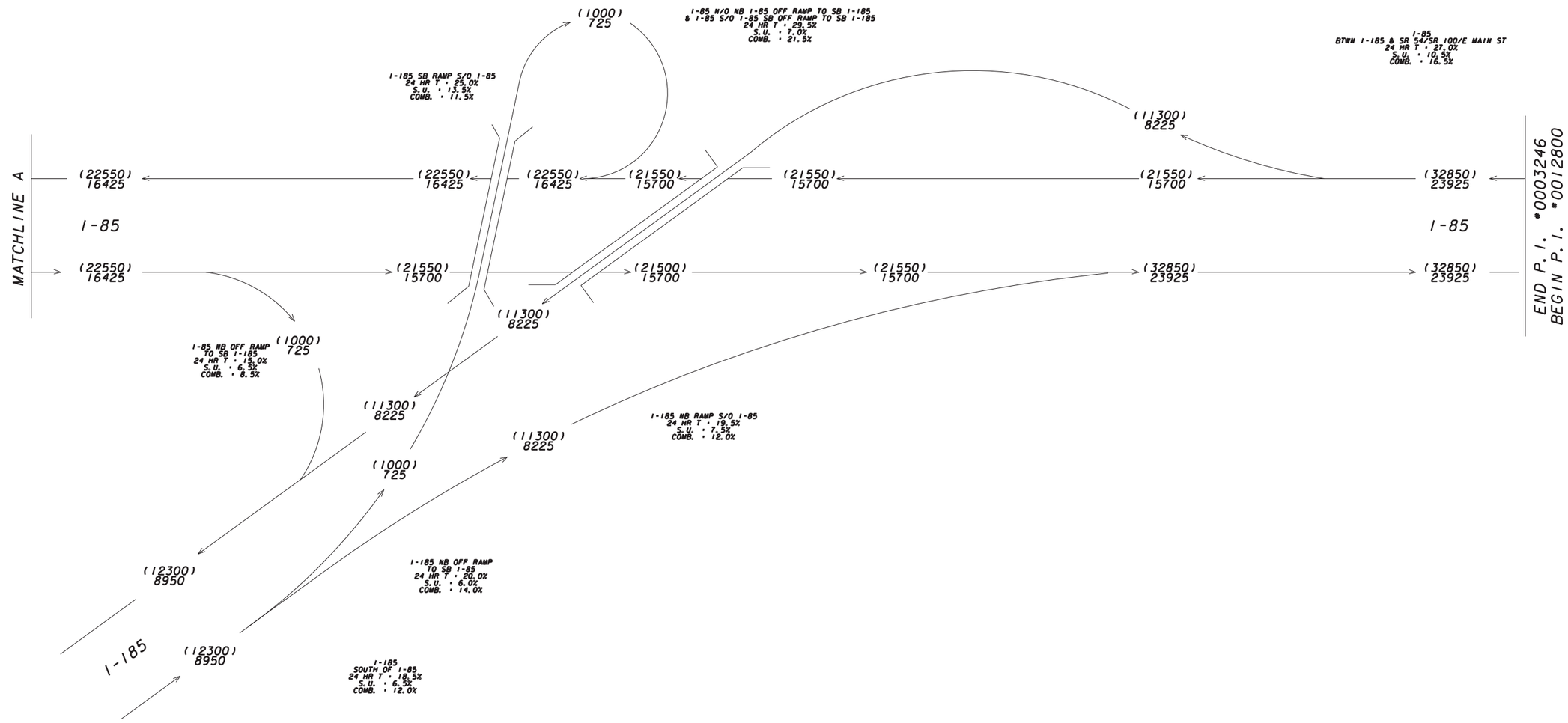
$USER$		$$PENTABLE$$		GA	0003246	2	2

TROUP COUNTY



HF
5/14

PI# 0003246
TROUP COUNTY
I-85 FM 0.257 MILE NORTH OF
SR 109 TO 1.628 MILE NORTH OF
I-185

2040 ADT= (000)
2020 ADT= 000
NO BUILD

GRICE CONSULTING GROUP

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No.
10-4

12/14/2012 GPLM

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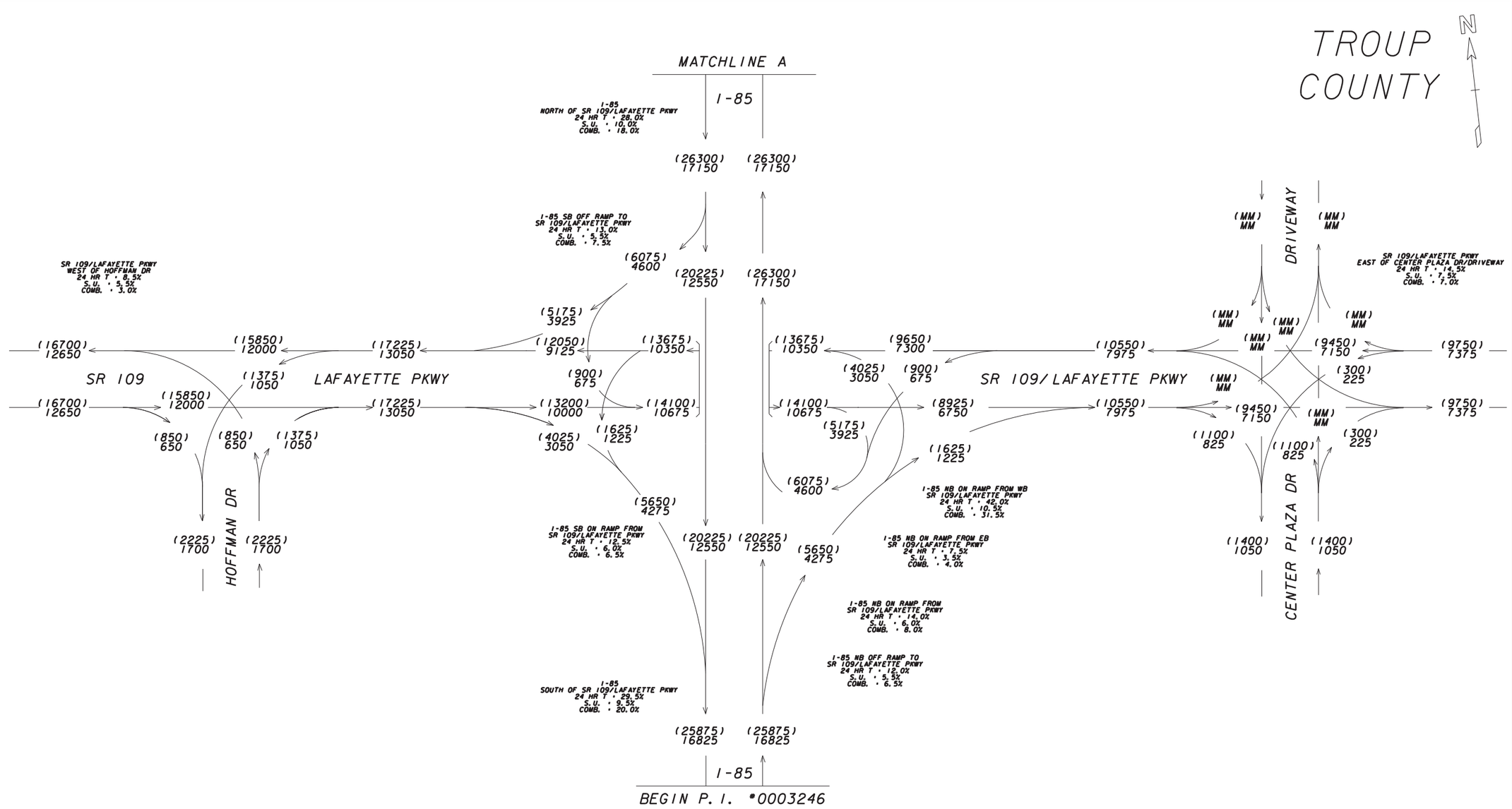

PI* 0003246
TROUP COUNTY
I-85 FM 0.257 MILE NORTH OF
SR 109 TO 1.628 MILE NORTH OF
I-185

2040 ADT= (000)
2020 ADT= 000
BUILD

GRICE CONSULTING GROUP

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No. 10-5

12/14/2012 GPLN

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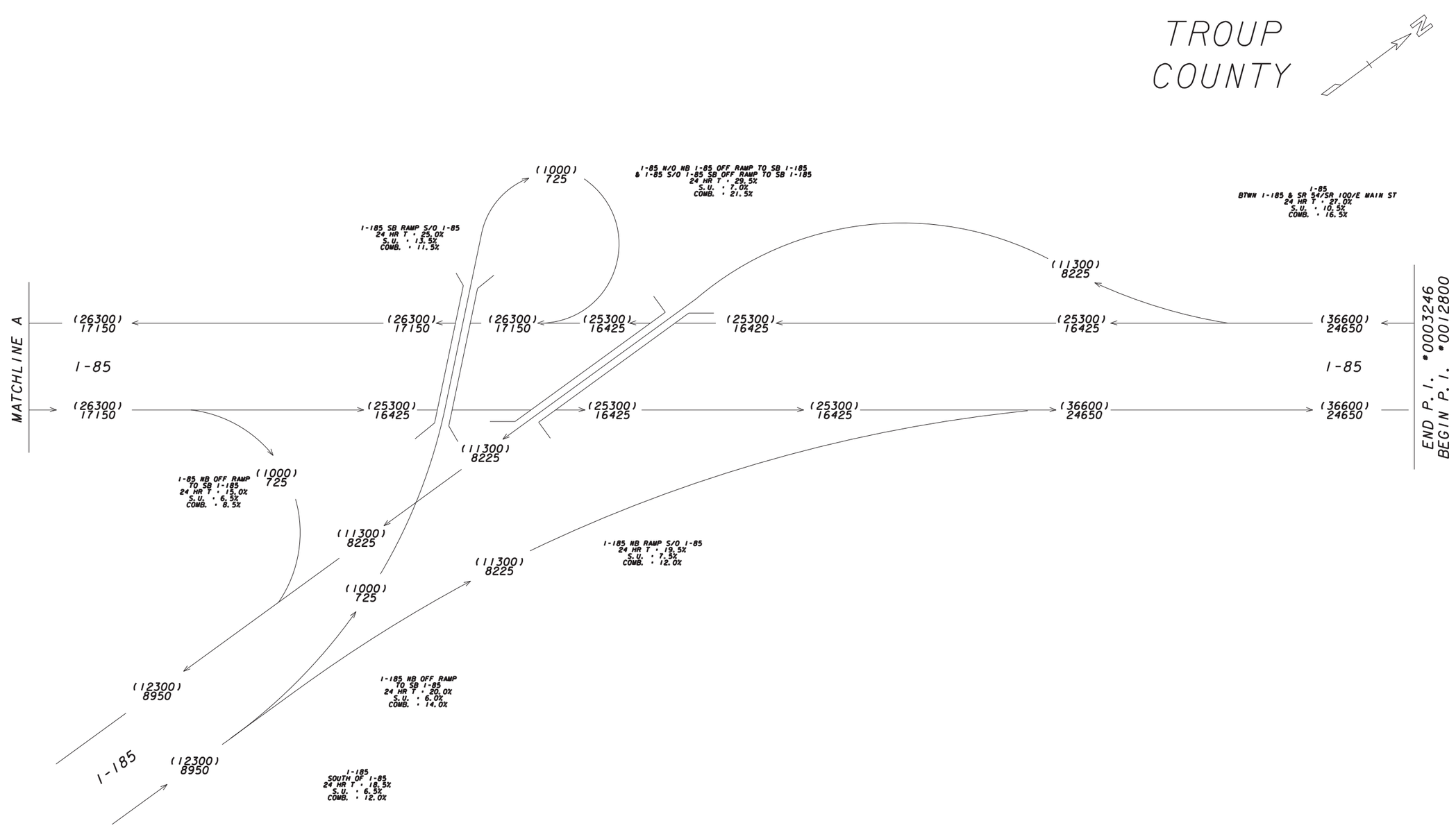

PI# 0003246
TROUP COUNTY
I-85 FM 0.257 MILE NORTH OF
SR 109 TO 1.628 MILE NORTH OF
I-185

2040 ADT= (000)
2020 ADT= 000
BUILD

GRICE CONSULTING GROUP

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM
DRAWING No. 10-6

12/14/2012 GPLM

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DATE$$$	TIME$$$	$PRF8$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	0012800	1	1

TROUP COUNTY

N

BEGIN P. I. *0012801
END P. I. *0012800

I-85

TO SR 54/SR 100

I-85
BTWN I-185 & SR 54/SR 100/E MAIN ST
24 HR T. = 27.0%
S.U. = 10.5%
COMB. = 16.5%

21250 21250

TO I-185

I-85

BEGIN P. I. *0012800
END P. I. *0003246

HF
5/14

				REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION
PI* 0012800 TROUP COUNTY I-85 FM 1.628 MILE NORTH OF I-185 TO 0.723 MILE SOUTH OF SR 54/SR 100/E MAIN ST	2014 ADT EXISTING	GRICE CONSULTING GROUP			OFFICE: PLANNING **TRAFFIC DIAGRAM** DRAWING No. 10-1

12/14/2012 GPLN

...\TROUP CO TRAFFIC VOLUMES PI001 6/10/2014 12:38:45 PM

DATE$$$	TIME$$$	$PRF8$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	0012800	1	1

TROUP COUNTY

N

BEGIN P. I. *0012801
END P. I. *0012800

I-85

TO SR 54/SR 100

I-85
BTWN I-185 & SR 54/SR 100/E MAIN ST
24 HR T. = 27.0%
S.U. = 10.5%
COMB. = 16.5%

(32850) 23925 (32850) 23925

TO I-185

I-85

BEGIN P. I. *0012800
END P. I. *0003246

HF
5/14

PI# 0012800
TROUP COUNTY
I-85 FM 1.628 MILE NORTH OF
I-185 TO 0.723 MILE SOUTH OF
SR 54/SR 100/E MAIN ST

2040 ADT= (000)
2020 ADT= 000
NO BUILD

GRICE CONSULTING GROUP

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No.
10-2

12/14/2012 GPLN

...\TROUP CO TRAFFIC VOLUMES PI001 6/10/2014 12:39:07 PM

DATE$$$	TIME$$$	$PRF8$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	0012800	1	1

TROUP COUNTY

N

BEGIN P. I. *0012801
END P. I. *0012800

I-85

TO SR 54/SR 100

I-85
BTWN I-185 & SR 54/SR 100/E MAIN ST
24 HR T. = 27.0%
S.U. = 10.5%
COMB. = 16.5%

(36600) 24650 (36600) 24650

TO I-185

I-85

BEGIN P. I. *0012800
END P. I. *0003246

HF
5/14

PI* 0012800
TROUP COUNTY
I-85 FM 1.628 MILE NORTH OF
I-185 TO 0.723 MILE SOUTH OF
SR 54/SR 100/E MAIN ST

2040 ADT= (000)
2020 ADT= 000
BUILD

GRICE CONSULTING GROUP

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No.
10-3

12/14/2012 GPLN

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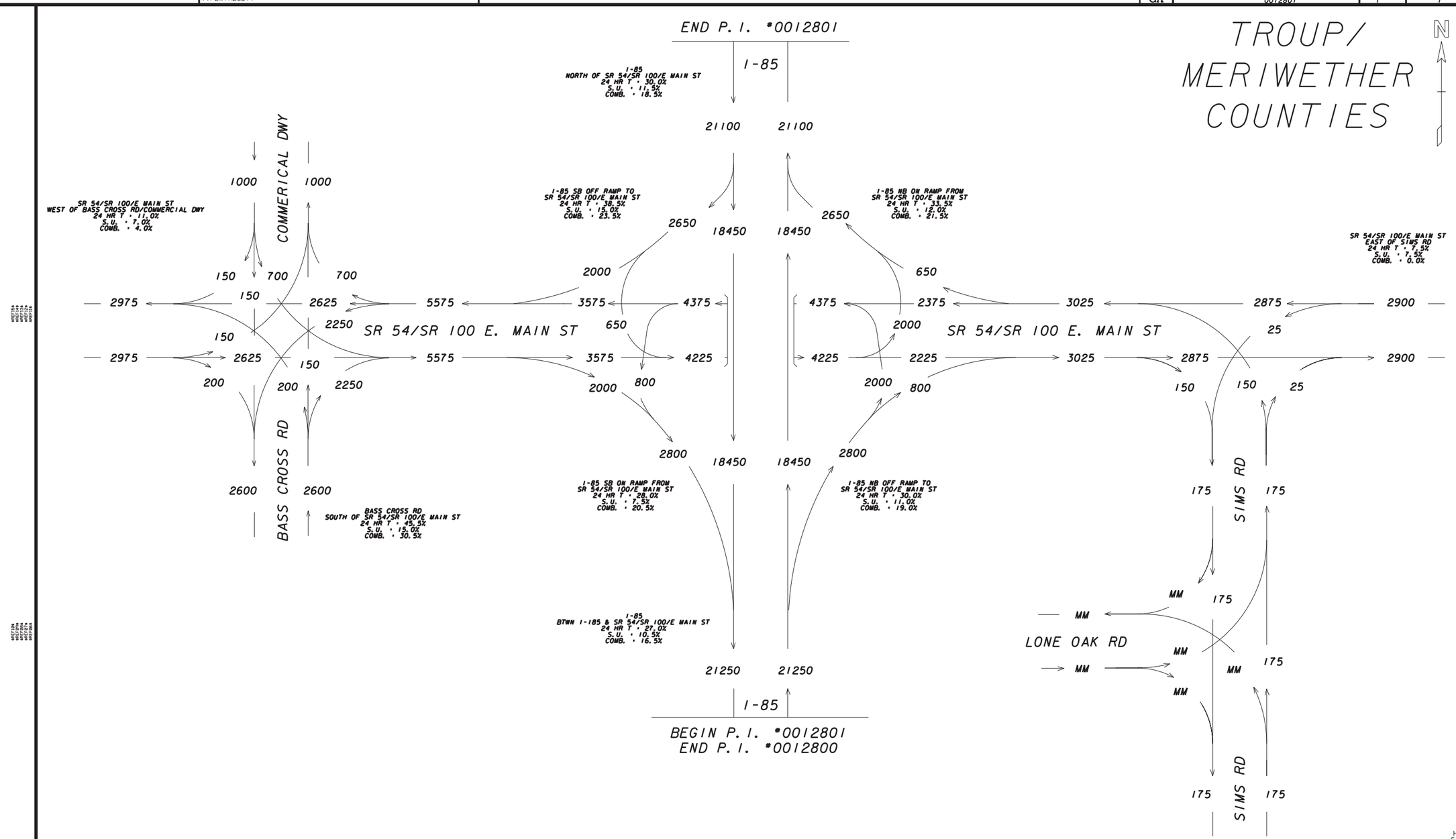
$USER$		$$PENTABLE$$		GA	0012801	1	1

TROUP/ MERIWETHER COUNTIES



P. I. * 0012801
TROUP/MERIWETHER COUNTIES
I-85 FM 0.723 MILE SOUTH OF
SR 54/SR 100 IN
TROUP COUNTY
TO 0.191 MILE NORTH OF CR 417
IN MERIWETHER COUNTY

2014 ADT
EXISTING

GRICE CONSULTING GROUP

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No. 10-1

12/14/2012 GPLM

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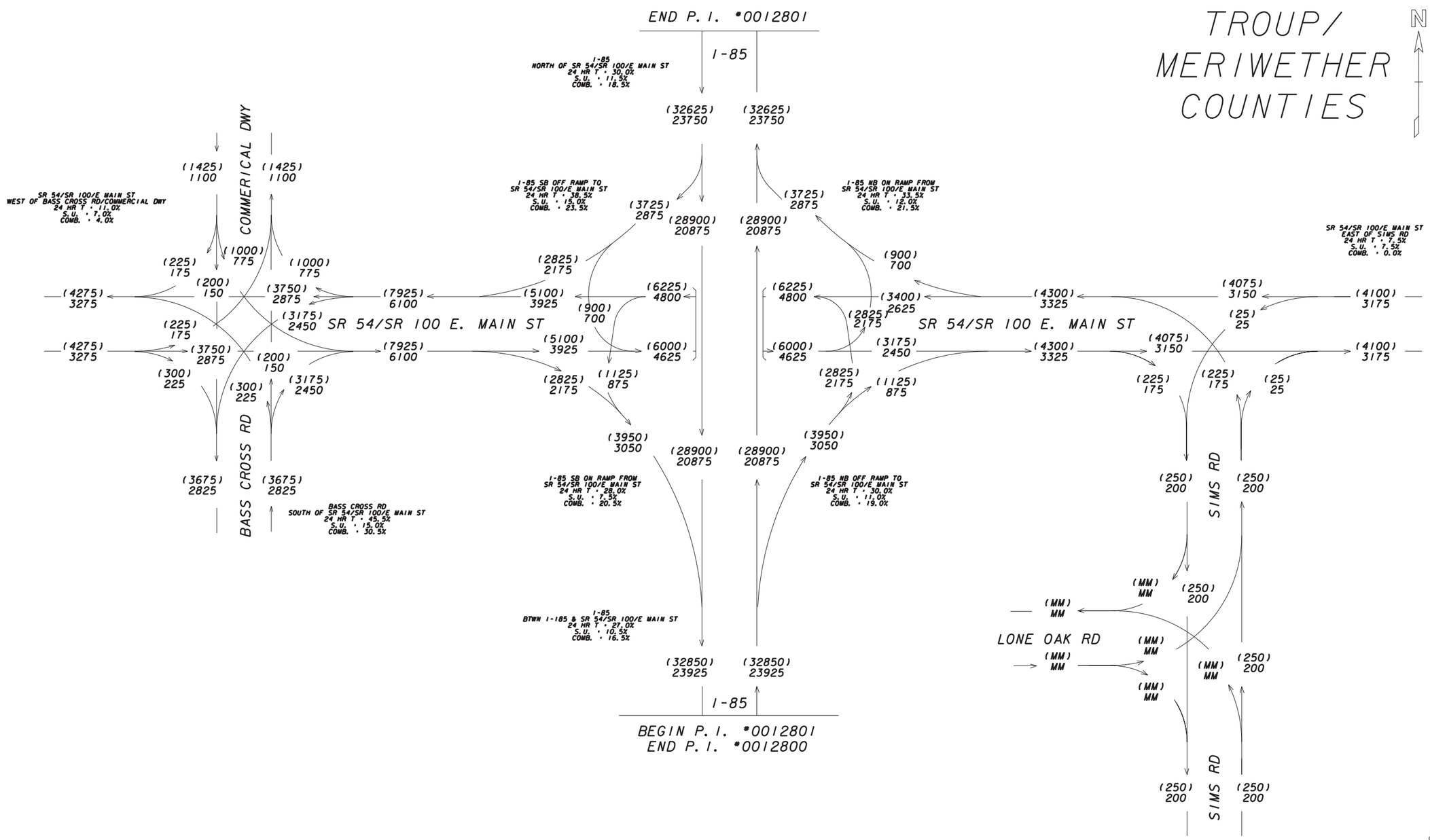
DATE$$$	TIME$$$	$PRF8$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	0012801	1	1

TROUP/ MERIWETHER COUNTIES



P. I. * 0012801
TROUP/MERIWETHER COUNTIES
I-85 FM 0.723 MILE SOUTH OF
SR 54/SR 100 IN
TROUP COUNTY
TO 0.191 MILE NORTH OF CR 417
IN MERIWETHER COUNTY

2040 ADT= (000)
2020 ADT= 000
NO BUILD

GRICE CONSULTING GROUP

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No. 10-2

12/14/2012 GPLN

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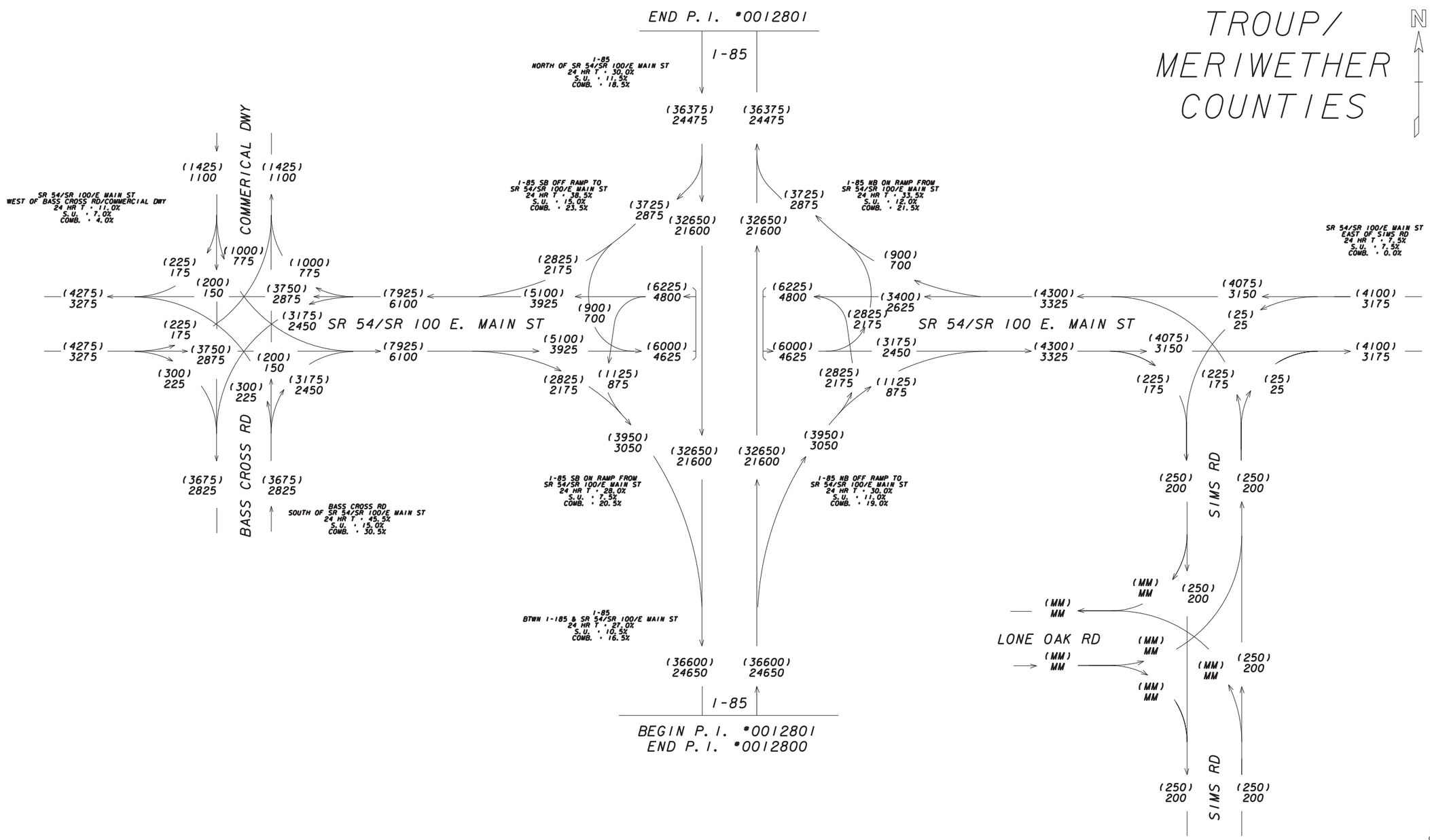
DATE$$$	TIME$$$	$PRF8$	DGN	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$		$$PENTABLE$$		GA	0012801	1	1

TROUP/ MERIWETHER COUNTIES



P. I. * 0012801
TROUP/MERIWETHER COUNTIES
I-85 FM 0.723 MILE SOUTH OF
SR 54/SR 100 IN
TROUP COUNTY
TO 0.191 MILE NORTH OF CR 417
IN MERIWETHER COUNTY

2040 ADT= (000)
2020 ADT= 000
BUILD

GRICE CONSULTING GROUP

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: PLANNING
TRAFFIC DIAGRAM

DRAWING No. 10-3

12/14/2012 GPLM

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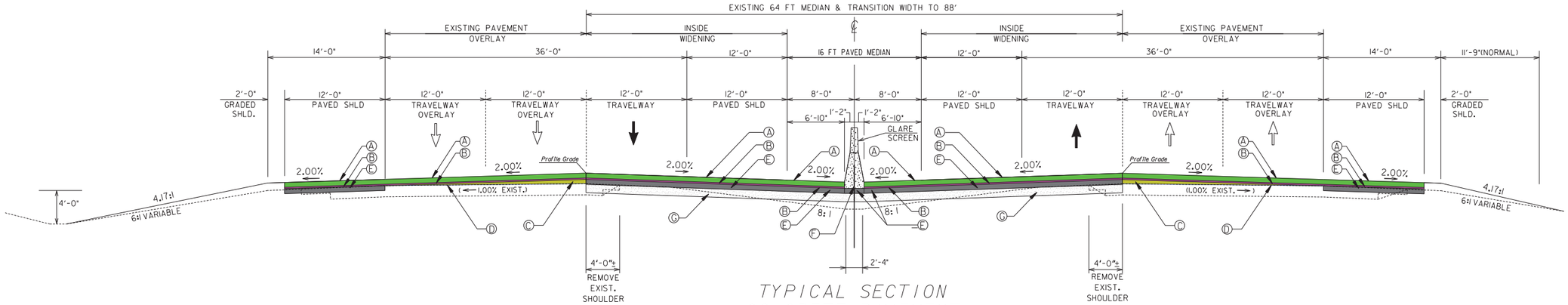
ATTACHMENT 5

TYPICAL SECTIONS

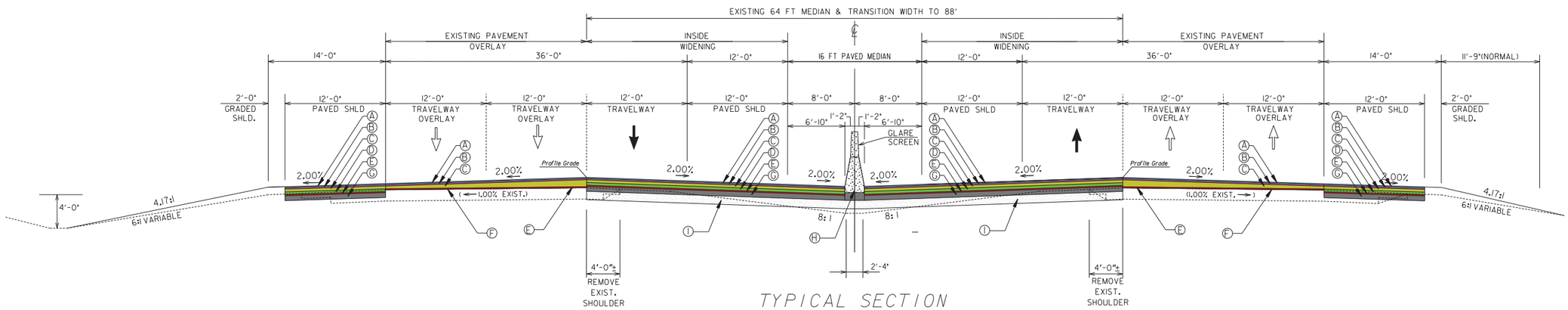
PI 0003246

TROUP COUNTY



TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 0.257 MILE NORTH OF
SR 109 TO 1.571 MILE NORTH OF I-185

Ⓐ PLAIN PC CONC PVMT, CLI CONC, 10 INCH THK (JOINTED WITH 1½" SMOOTH DOWEL BAR AT 12 FT C/C)(430-0200)
Ⓑ RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME-220 LB./SQ. YD. -2 INCH (402-3130)
Ⓒ RECYCLED ASPH CONC LEVELING(12.5mm SP) - VAR. 0 TO 3"+/- (402-1812)
Ⓓ WATERPROOFING FABRIC (445-0500)
Ⓔ ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓕ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓖ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)



TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 0.257 MILE NORTH OF
SR 109 TO 1.571 MILE NORTH OF I-185

Ⓐ SURFACE: ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-137.5 LB/SY (400-3624)
Ⓑ SMA: ASPH CONC 12.5 MM SMA, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-220 LB/SY (400-3604)
Ⓒ BINDER: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME- LEVELING-VAR. 4" TO 7" THK(402-3190)
Ⓓ BASE HMA: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME-440 LB/SY (402-3190)
Ⓔ OGI: ASPH CONC 12.5 MM OGFC, GP 2 ONLY, INCL BITUM MATL & H LIME-137.5 LB/SY (400-3205)
Ⓕ WATERPROOFING FABRIC (445-0500)
Ⓖ BASE: ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓗ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓘ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)

R.K. SHAH & ASSOCIATES, INC.
ENGINEERS
TRANSPORTATION / SITE / CIVIL
1280 WINCHESTER PARKWAY ATLANTA, GEORGIA 30080
BUILDING 1280, SUITE 240
TELEPHONE 770/436-5070 FAX 770/436-5410

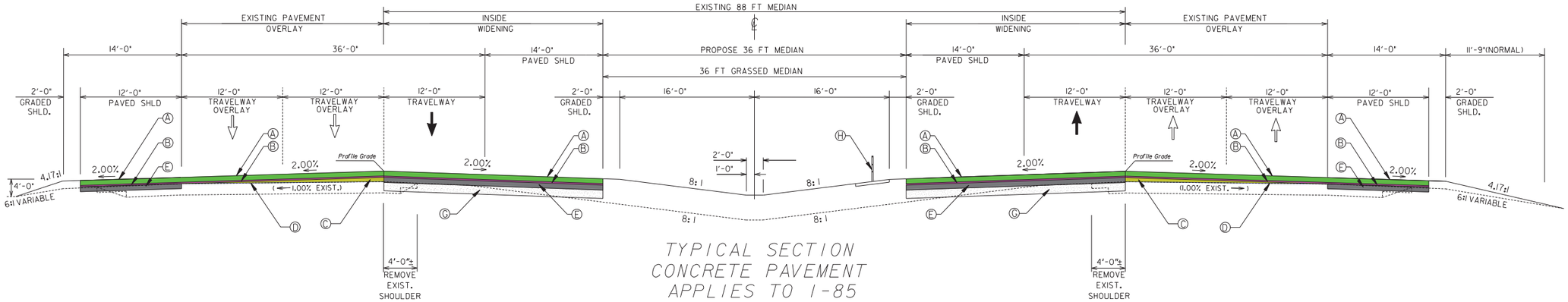
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD AND AIRPORT DESIGN

TYPICAL SECTIONS

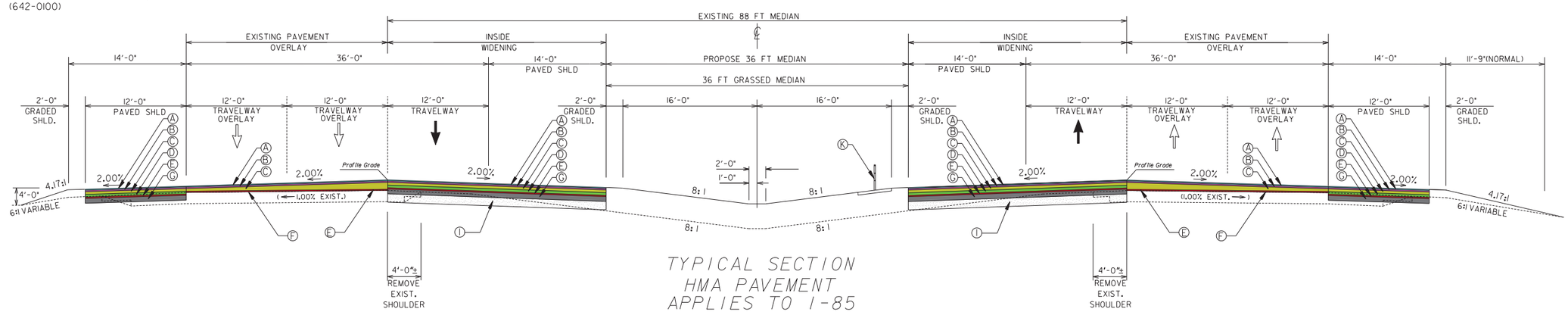
PROJECT MSL00-0003-00(246)
COUNTY TROUP
PI 0003246

DRAWING No. 5-01



TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 1.571 MILE NORTH OF
I-185 TO 1.628 MILE NORTH OF I-185

Ⓐ PLAIN PC CONC PVMT, CLI CONC, 10 INCH THK (JOINTED WITH 1½" SMOOTH DOWEL BAR AT 12 FT C/C)(430-0200)
Ⓑ RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME-220 LB./SQ. YD. -2 INCH (402-3130)
Ⓒ RECYCLED ASPH CONC LEVELING(12.5mm SP) - VAR. 0 TO 3"+/- (402-1812)
Ⓓ WATERPROOFING FABRIC (445-0500)
Ⓔ ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓕ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓖ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)
Ⓗ CABLE BARRIER (642-0100)



TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 1.571 MILE NORTH OF
I-185 TO 1.628 MILE NORTH OF I-185

Ⓐ SURFACE: ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-137.5 LB/SY (400-3624)
Ⓑ SMA: ASPH CONC 12.5 MM SMA, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-220 LB/SY (400-3604)
Ⓒ BINDER: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME- LEVELING-VAR. 4" TO 7" THK(402-3190)
Ⓓ BASE HMA: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME-440 LB/SY (402-3190)
Ⓔ OGI: ASPH CONC 12.5 MM OGFC, GP 2 ONLY, INCL BITUM MATL & H LIME-137.5 LB/SY (400-3205)
Ⓕ WATERPROOFING FABRIC (445-0500)
Ⓖ BASE: ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓗ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓘ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)
Ⓚ CABLE BARRIER (642-0100)

R.K. SHAH & ASSOCIATES, INC.
ENGINEERS
TRANSPORTATION / SITE / CIVIL
1280 WINCHESTER PARKWAY ATLANTA, GEORGIA 30080
BUILDING 1280, SUITE 240
TELEPHONE 770/436-5070 FAX 770/436-5410

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD AND AIRPORT DESIGN

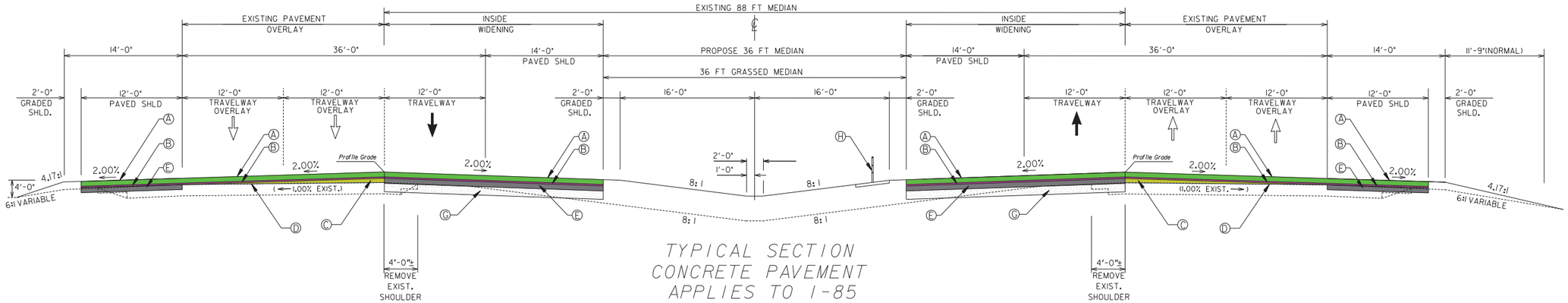
TYPICAL SECTIONS

PROJECT MSL00-0003-00(246)
COUNTY TROUP
PI 0003246

DRAWING No. 5-02

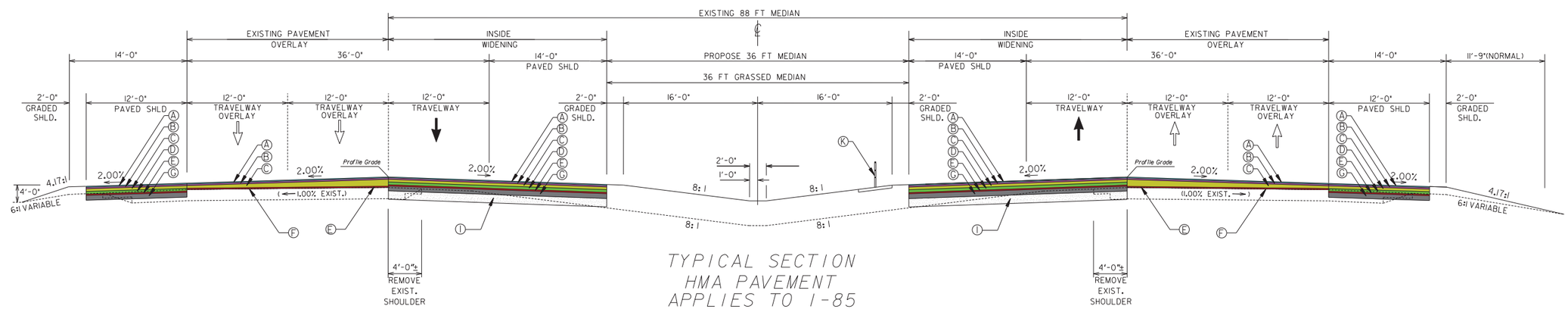
PI 0012800

TROUP COUNTY



TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 1.628 MILE NORTH OF
I-185 TO 0.723 MILE SOUTH OF
SR 54/SR 100/E MAIN ST

Ⓐ PLAIN PC CONC PVMT, CLI CONC, 10 INCH THK (JOINTED WITH 1½" SMOOTH DOWEL BAR AT 12 FT C/C)(430-0200)
Ⓑ RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME-220 LB./SQ. YD. -2 INCH (402-3130)
Ⓒ RECYCLED ASPH CONC LEVELING(12.5mm SP) - VAR. 0 TO 3"+/- (402-1812)
Ⓓ WATERPROOFING FABRIC (445-0500)
Ⓔ ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓕ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓖ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)
Ⓗ CABLE BARRIER (642-0100)



TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 1.628 MILE NORTH OF
I-185 TO 0.723 MILE SOUTH OF
SR 54/SR 100/E MAIN ST

Ⓐ SURFACE: ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-137.5 LB/SY (400-3624)
Ⓑ SMA: ASPH CONC 12.5 MM SMA, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-220 LB/SY (400-3604)
Ⓒ BINDER: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME- LEVELING-VAR. 4" TO 7" THK(402-3190)
Ⓓ BASE HMA: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME-440 LB/SY (402-3190)
Ⓔ OGI: ASPH CONC 12.5 MM OGFC, GP 2 ONLY, INCL BITUM MATL & H LIME-137.5 LB/SY (400-3205)
Ⓕ WATERPROOFING FABRIC (445-0500)
Ⓖ BASE: ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓗ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓘ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)
Ⓚ CABLE BARRIER (642-0100)

R.K. SHAH & ASSOCIATES, INC.
ENGINEERS
TRANSPORTATION / SITE / CIVIL
1280 WINCHESTER PARKWAY ATLANTA, GEORGIA 30080
BUILDING 1280, SUITE 240
TELEPHONE 770/436-5070 FAX 770/436-5410

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD AND AIRPORT DESIGN

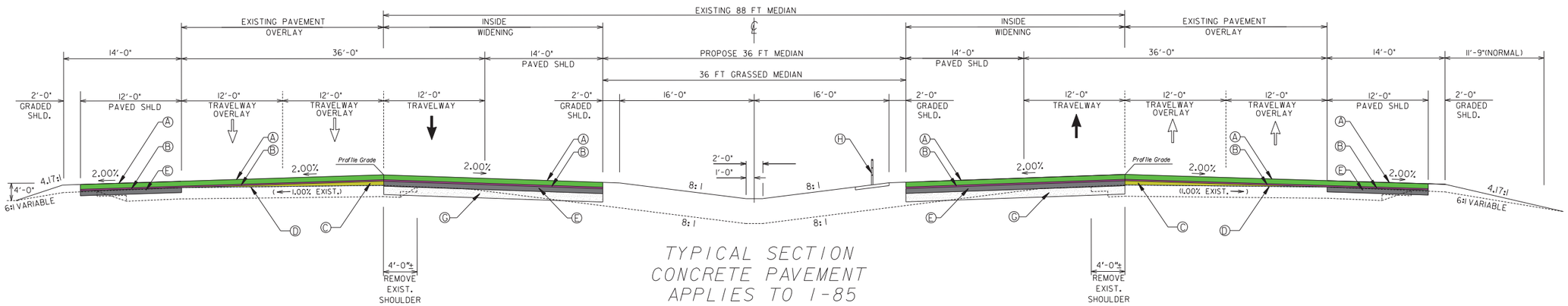
TYPICAL SECTIONS

PROJECT MSL00-0003-00(246)
COUNTY TROUP
PI 0012800

DRAWING No. 5-01

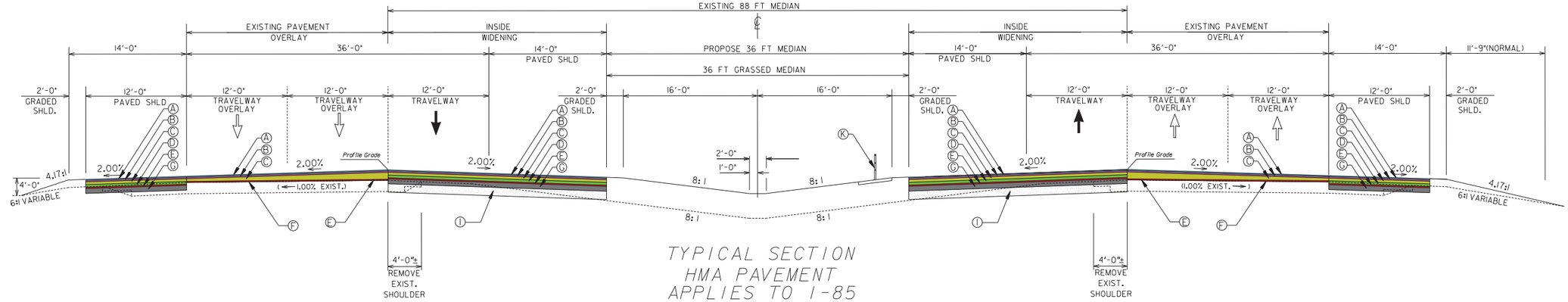
PI 0012801

TROUP & MERIWETHER



TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 0.723 MILE SOUTH OF
SR 54/SR 100 IN TROUP COUNTY
TO 0.191 MILE NORTH OF CR 417
IN MERIWETHER COUNTY

Ⓐ PLAIN PC CONC PVMT, CLI CONC, 10 INCH THK (JOINTED WITH 1½" SMOOTH DOWEL BAR AT 12 FT C/C)(430-0200)
Ⓑ RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME-220 LB./SQ. YD. -2 INCH (402-3130)
Ⓒ RECYCLED ASPH CONC LEVELING(12.5mm SP) - VAR. 0 TO 3"+/- (402-1812)
Ⓓ WATERPROOFING FABRIC (445-0500)
Ⓔ ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓕ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26)(PAY ITEM VARIES)
Ⓖ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)
Ⓗ CABLE BARRIER (642-0100)



TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 0.723 MILE SOUTH OF
SR 54/SR 100 IN TROUP COUNTY
TO 0.191 MILE NORTH OF CR 417
IN MERIWETHER COUNTY

Ⓐ SURFACE: ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-137.5 LB/SY (400-3624)
Ⓑ SMA: ASPH CONC 12.5 MM SMA, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-220 LB/SY (400-3604)
Ⓒ BINDER: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME- LEVELING-VAR. 4" TO 7" THK(402-3190)
Ⓓ BASE HMA: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME-440 LB/SY (402-3190)
Ⓔ OGI: ASPH CONC 12.5 MM OGFC, GP 2 ONLY, INCL BITUM MATL & H LIME-137.5 LB/SY (400-3205)
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REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD AND AIRPORT DESIGN

TYPICAL SECTIONS

PROJECT MSL00-0003-00(246)
COUNTY TROUP / MERIWETHER
PI 0012801

DRAWING No. 5-01

ATTACHMENT 6

FHWA CONDITIONAL APPROVAL OF CONCEPT REPORT

and

ORIGIANL CONCEPT REPORT

FOR

Project # MSL00-0003-00(246), Troup/Meriwether Counties
PI # 0003246

From North of SR 109 in Troup County to North of Forrest Road/CR 417 in Meriwether County

U.S. Department of Transportation
Federal Highway Administration

Georgia Division

61 Forsyth Street S. W.
Suite 17T100
Atlanta, Georgia 30303
Phone 404-562-3630
Fax 404-562-3703
GA.fhwa.@fhwa.dot.gov

May 18, 2011

In Reply Refer To:
HPE-GA

Mr. Vance C. Smith, Jr.
Commissioner
Georgia Department of Transportation
One Georgia Center, 600 West Peachtree Street, NW
Atlanta, GA 30308

Dear Commissioner Smith:

We have reviewed the original Concept Report for the inside widening of 14.947 miles of I-85 from north of SR 109 in Troup County to north of Forest Road in Meriwether County. Based on the original concept report and the original data analysis from a build year of 2007 and a design year of 2027, the information appears to provide justification for the project. However, considering that all data considered in the original analysis has to be revised to reflect current conditions, the final determination may be different. Therefore FHWA only provides conditional approval of the concept report, with an initial routing date of March 16, 2011 from the GDOT Locations Office, for project MSL00-0003-00(246) in Troup and Meriwether Counties. Official approval from FHWA is contingent upon the result of the analyses of all required data which reflects the appropriate build and design timeframe. Please provide the revised project concept report which includes all revised data for review and official determination.

Please contact Christy Poon-Atkins, P.E. at (404)562-3638 if you have any questions or comments.

Sincerely,

for Rodney N. Barry, P.E.
Division Administrator

Cc: Dave Peters, Office of Planning

Project Concept Report

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

Road & Airport Design

Project Number: MSL-0003-00(246)
County: Troup & Meriwether
P. I. Number: 0003246

Federal Route Number: I-85
State Route Number: 403

Prepared By: R. K. SHAH & ASSOCIATES, INC

Recommendation for approval:

DATE 5-16-05 C. Andy Carey
Project Manager

DATE 5-16-05 Robert A. Kay
Office Head/District Engineer

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

DATE 12/08/10 Cindy Van Dyke /ORP* (see letter)
State Transportation Planning Administrator

DATE 12/03/10 Genetha Rice-Singleton/ORP*
Program Control Administrator

DATE 12/14/10 Glenn Bowman/ORP
State Environmental/Location Engineer

DATE _____
State Traffic Safety & Design Engineer

DATE _____
District Engineer

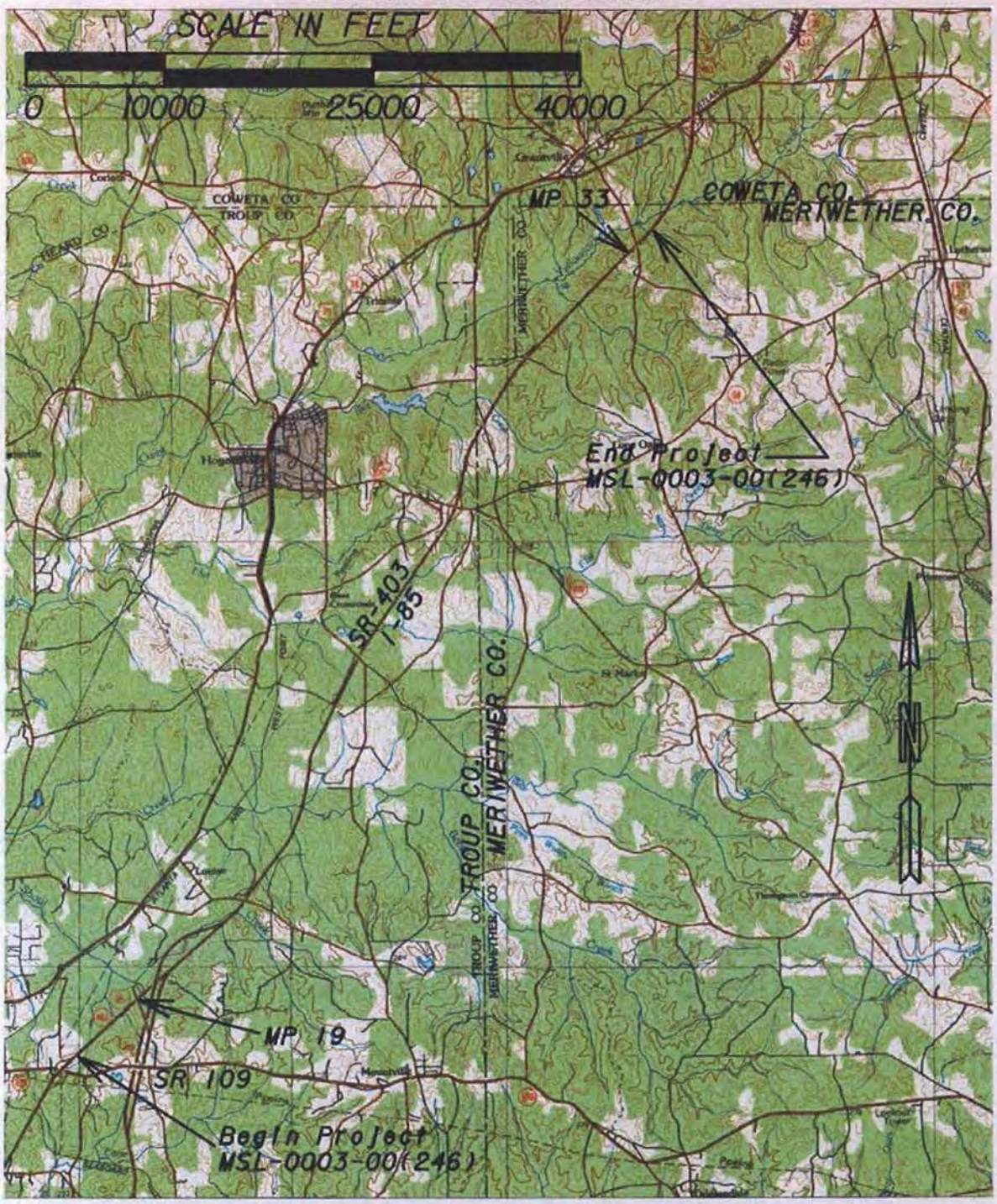
DATE _____
Project Review Engineer

DATE 02/12/11 Ben Rabun/ORP*
State Bridge Design Engineer

*Recommendation on file

Project Concept Report page __2___
Project Number: MSL-0003-00(246)
P. I. Number: 0003246
County: Troup & Meriwether

LOCATION MAP



Need and Purpose: See Attachment

Project in Area

The following Projects are located within the area and are programmed in the Department's Construction work and Long Range Programs:

Project Number	Project Description	Project Schedule
P. I. No. 0003161	Replacement of Existing Pavement and Inside Widening of I-85	
P.I. No. 310730	Improvements of I-185 Interchange	

Safety:

Below are accident data for SR 403/I-85 for the years 1997, 2000 and 2001 (the most recent year for which accident data id available). This data is compared to the statewide average for a similar facility.

Accident Data for SR 403/I-85(Rural Principal Arterial)

Year	1997	1997	2000	2000	2001	2001
Comparison	SR 403/I-85	Statewide	SR 403/I-85	Statewide	SR 403/I-85	Statewide
Accidents	60	4766	91	6627	105	7231
Accident Rate	116	49	149	61	163	65
Injuries	35	2707	55	3772	62	3778
Injury Rate	68	28	90	35	96	34
Fatalities	0	100	0	125	0	133
Fatality Rate	0	1.03	0	1.15	0	1.20

Operational Analysis: Level of Services (LOS) is defined as a qualitative measure describing operational condition within a traffic stream. There are six identified LOS with letters 'A' through 'F'. LOS A represents the best operating condition and LOS 'F' represents the worst. LOS 'C' is considered as acceptable and marks the beginning of a range of traffic flow in which level of driving comfort declines noticeably on the roadway. LOS 'E' represents at or near capacity for traffic flow. LOS 'F' represents heavily congested flow with traffic demands exceeding capacity. The AADT for the Year 2007 on SR 403/I-85 is 55,000 which is LOS 'C' The SR 403/I-85 is projected to have and average daily traffic (ADT) of 91,000 in 2027 which is LOS 'F' without proposed improvements. The proposed improvements would result in a LOS "D" in 2027 with ADT of 91,000

Description of the proposed project: Inside widening of 14.947 miles of SR 403/I-85 from north of SR 109 (M. P. # 18.312) in Troup County to north of Forest Road (M.P. # 33.259) in Meriwether County. When completed project will provide 3-12 ft. lanes, 14 ft. inside and outside shoulder (12 ft. paved), in each direction divided with variable width (40 ft.-64 ft.) depressed grass median. This project includes the replacements of existing Bridges over Beach Creek (Suff. Rating-77.5/HS-15Loading)and Flat Creek(Suff.Rating-77.5/HS-15Loading).The project further includes raising(Jacking) of Bridge on I-185NB/I-85SB, I-85SB/I-185SB, Hines Road, Hogansville Road, SR 54, Sims Road, Sewell Road and Forest Road over I-85 to improve vertical clearances to minimum of 17 ft.

The project improves existing pavement cross slope of 1/8 in. /ft (1 %) to 2.00 % using variable depth asphaltic overlay.

The project will provide one CCTV remote controlled camera/per direction at each interchange.

Is the project located in a Non-attainment area? **Yes** **X** **No.**

PDP Classification:

Full Oversight (X), Exempt( ), State Funded( ), or Other ( )

Functional Classification: Major Principal Rural Arterial (Freeway)

U. S. Route Number(s): I-85 **State Route Number(s): SR 403**

Traffic (AADT):

Current Year: (2007) 55,000 Design Year: (2027) 91,000
K= 8 %, D= 55 %, T= 14 %, 24 Hour T= 21 %

Existing design features:

- Typical Section: 2-12 ft. lanes in each direction divided with variable width (64 ft.-88ft.) depressed grassed median. 14 ft.(10 ft. Paved) outside shoulder and 10 ft. (2 ft. Paved) inside shoulder

- Posted speed : **70 mph** Maximum degree of curvature: **1 Degree**
- Maximum grade: **3.00 %**
- Width of right of way: **400 ft**.

- **Major structures:**

Existing Bridge on I-85

Location	Over	Length	Width	#-Span	Str. I.D.	Loc. I.D.	Suff. Rating
Left/I-85 –SB	Beach Creek	280'	66'	3	285-0071-0	285-00403D-23.40N	77.50/HS-15
Right/I-85-NB	Beach Creek	280'	66'	3	285-0070-0	285-00403D-23.39N	77.50/HS-15
Left/I-85- SB	Flat Creek	252'	66'	3	285-0073-0	285-00403D-26.15N	77.50/HS-15
Right/I-85-NB	Flat Creek	252'	66'	3	285-0072-0	285-00403D-26.14N	77.50/HS-15

Existing Bridge Over SR 403/I-85

Location	On Road	Length	Width	#-Span	Str. I.D.	Loc. I.D.	Clear.
143+66.94	I-185 NB Ramp	337.5	30'	4	285-0403-0	285-00181X-000.91E	17.25'
163+83.06	I-185SB Ramp	337.5'	30'	4	285-0403-0	285-00181X-000.90E	17.25'
253+88.08	Hines Rd	343'	32'	4	285-0403-0	285-00403D-21.80N	16.76'
461+17.44	Hogansville Rd.	334'	32'	4	285-0403-0	285-000403D-25.73W	16.70'
600+21.08	SR 54	307.5'	48'	4	285-0403-0	285-00403D-28.37N	16.65'
669+76.88	Sims Rd.	428.25'	30'	4	199-0002-0	199-00017X-001.20N	16.70'
727+47.30	Sewell Road	337.5'	30'	4	199-0001-0	199-00015X-002.20N	16.79'
851+88.79	Forest Rd.	394'	32'	4	199-0064-0	199-02016F-010.26N	16.65

<u>Bridge Culverts:</u> TRP. 7 ft. X 7 ft. (Shoal Creek) and DBL. 10 ft. x 9 ft.

- Major interchanges or intersections along the project: SR 109, I-185, SR 54 and SR 14/US 29
- Existing length of roadway segment and the beginning mile logs for each county:
  SR 403/I-85 Form M. P. # 18.312 to in Troup County to M.P. # 33.259 in Meriwether County. Total Project Length is 14.947 miles.
  Troup County: From M.P. # 18.312 to M.P. # 29.416 Total 11.104 mile(74.289 %) and
  Meriwether County: From M.P. # 29.416 to M.P. 33.259 Total 3.843 mile (25.711 %)

Proposed Design Features:

- Proposed typical section(s): 3-12 ft. lanes in each direction divided with variable width (40 ft.-64ft.) depressed grassed median. 14 ft. (12 ft. Paved) outside shoulder and 14 ft. (12 ft. Paved) inside shoulder. *Two outside lane will drain outside and one inside lane will drain to the middle.*
- Proposed Design Speed Mainline: **70 mph**
- Proposed Maximum grade Mainline: **3.00 %** Maximum grade allowable: **3.00 %.**
- Proposed Maximum grade Side Street: **N.A.** Maximum grade allowable: **N.A.**
- Proposed Maximum grade driveway: **N.A.**
- Proposed Maximum degree of curve: **1 Degree**. Maximum degree allowable : **3 Degree**
- Right of way
  - Width: **400 ft.**
  - Easements: Temporary ( ), Permanent ( ), Utility ( ), Other ( ).
  - Type of access control: Full **(X),** Partial ( ), By Permit ( ), Other ( ).
  - Number of parcels: _____ Number of displacements:
    - Business: _____
    - Residences: _____
    - Mobile homes: _____
    - Other: _____
- **Structures:**

New Bridge on I-85

Location	Over	Length	Width	#-Span	Str. I.D.	Loc. I.D.	Suff. Rating
Left/I-85 -SB	Beach Creek	280'	60'	3	285-0071-0	285-00403D-23.40N	100.00/HS-20
Right/I-85-NB	Beach Creek	280'	60'	3	285-0070-0	285-00403D-23.39N	100.00/HS-20
Left/I-85- SB	Flat Creek	252'	60'	3	285-0073-0	285-00403D-26.15N	100.00/HS-20
Right/I-85-NB	Flat Creek	252'	60'	3	285-0072-0	285-00403D-26.14N	100.00/HS-20

Raising (Jacking) of Existing Bridge Over SR 403/I-85

Location	On Road	Length	Width	#-Span	Str. I.D.	Loc. I.D.	Raise
143+66.94	I-185 NB Ramp	337.5	30'	4	285-0403-0	285-00181X-000.91E	0.75'
163+83.06	I-185SB Ramp	337.5'	30'	4	285-0403-0	285-00181X-000.90E	0.75'
253+88.08	Hines Rd	343'	32'	4	285-0403-0	285-00403D-21.80N	1.24'
461+17.44	Hogansville Rd.	334'	32'	4	285-0403-0	285-000403D-25.73W	1.30'
600+21.08	SR 54	307.5'	48'	4	285-0403-0	285-00403D-28.37N	1.35'
669+76.88	Sims Rd.	428.25'	30'	4	199-0002-0	199-00017X-001.20N	1.30'
727+47.30	Sewell Road	337.5'	30'	4	199-0001-0	199-00015X-002.20N	1.21'
851+88.79	Forest Rd.	394'	32'	4	199-0064-0	199-02016F-010.26N	1.35

Bridge Culverts: TRP. 7 ft. X 7 ft. (Shoal Creek) and DBL. 10 ft. x 9 ft.-No Improvements Required.

- Major intersections and interchanges. SR 109, I-185, SR 54 and SR 14/US 29
- Traffic control during construction: Stage Construction Required. All Construction under Traffic.
- Design Exceptions to controlling criteria anticipated:

	UNDETERMINED	YES	NO
HORIZONTAL ALIGNMENT:	( )	( )	(X)
ROADWAY WIDTH:	( )	( )	(X)
SHOULDER WIDTH:	( )	( )	(X)
VERTICAL GRADES:	( )	( )	(X)
CROSS SLOPES:	( )	( )	(X)
STOPPING SIGHT DISTANCE:	( )	( )	(X)
SUPERELEVATION RATES:	( )	( )	(X)
HORIZONTAL CLEARANCE*:	( )	(X)	( )
SPEED DESIGN:	( )	( )	(X)
VERTICAL CLEARANCE:	( )	( )	(X)
BRIDGE WIDTH:	( )	( )	(X)
BRIDGE STRUCTURAL CAPACITY:	( )	( )	(X)

* Outside Bridge Columns

- Design Variances: None
- Environmental concerns: None

- Level of environmental analysis:
  - Are Time Savings Procedures appropriate? Yes (**X**), No ( ),
  - Categorical exclusion (**X**),
  - Environmental Assessment/Finding of No Significant Impact (FONSI) ( ), or
  - Environmental Impact Statement (EIS) ( ).
  -
- Utility involvements: CATV/Charter Communication, Gas/Atlanta Gas Light, Fiber Optic/MCI World Com, Power/GA Power, Power/Diverse Power, Telephone/Bell South and Water-Sewer-Gas-Power/City of LaGrange.

Project responsibilities:

- Design: R K. SHAH & ASSOCIATES, INC.
- Right of Way Acquisition: By District # 3
- Relocation of Utilities: By Utility Owner
- Letting to contract: GDOT
- Supervision of construction: GDOT
- Providing material pits: Construction Contractor
- Providing detours: Stage Construction Required. All Construction under Traffic.

Coordination

- Initial Concept Meeting date and brief summary. Attach minutes.: To be held
- Concept meeting date and brief summary. Attach minutes.: Not Available
- P. A. R. meetings, dates and results. :
- FEMA, USCG, and/or TVA
- Public involvement: Public Information Meeting to be held.
- Other projects in the area.: Improvement of I-85/I-185 Interchange Improvements
- Other coordination to date.: None

Scheduling – Responsible Parties' Estimate

- Time to complete the environmental process: **6 Months.**
- Time to complete preliminary construction plans: **12 Months**.
- Time to complete right of way plans: **3 Months.**
- Time to complete the Section 404 Permit: **6 Months.**
- Time to complete final construction plans: **12 Months.**
- Time to complete to purchase right of way: **6 Months.**
- List other major items that will affect the project schedule: **N/A Months**.

Other alternates considered: 1. No Build.
2. Symmetrical Widening of SR 403/I-85 by adding 6 ft (1/2 lane) inside and outside in each direction.

Comments:

Attachments:

1. Cost Estimates:
    a. Construction including E&C,-Attached
    b. Right of Way, -TBD
    c. Utilities, TBD
2. Sketch location map,-Attached
3. Typical sections,-Attached
4. Accident summaries,-Part of Report
5. Capacity analysis-Part of Report
6. Bridge inventory-Part of Report
7. Minutes of Initial Concept and Concept meetings,- January 14, 2004

Approvals, <u>Full Oversight projects:</u>

Concur: _____
Director of Preconstruction

Approve: _____
Division Administrator, FHWA or FTA

Approve: _____
Chief Engineer

Project Concept Report page __10_
Project Number: MSL-0003-00(246)
P. I. Number: 0003246
County: Troup & Meriwether

MSL-0003 (246) - PI# 0003246
Cost Estimate

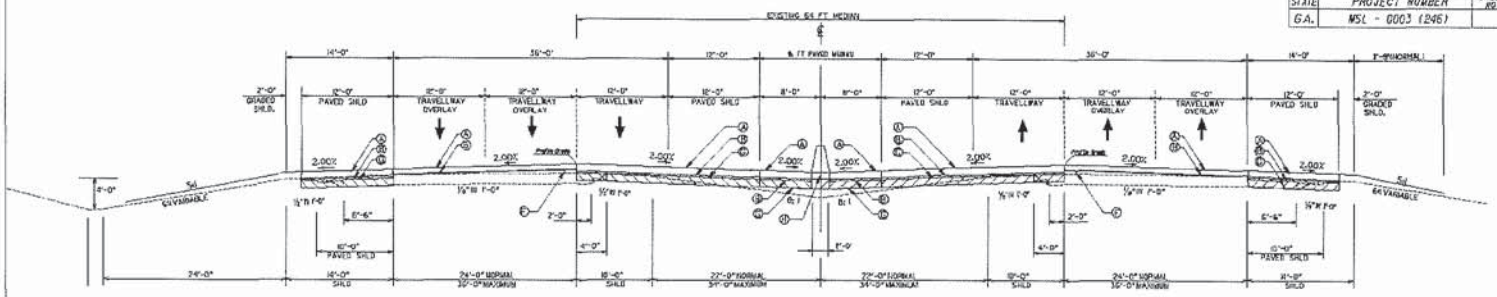
			Description	Unit	Unit Price	Quantity	$ Amount
A			RIGHT OF WAY & EASEMENTS			N/A	
B			UTILITIES			TBD	
C.			MAJOR STRUCTURES				
	1		BRIDGE REPLACEMENT				
		a	BRIDGE 1 LT. SBL I-85 OVER BEACH CREEK-STA. 339+_	SQ. FT	$55.00	18480	$1,016,400.00
		b	BRIDGE 1 RT SBL I-85 OVER BEACH CREEK	SQ. FT	$55.00	18480	$1,016,400.00
		c	BRIDGE 2 LT SBL I-85 OVER FLAT CREEK - STA. 484+_	SQ. FT	$55.00	16632	$914,760.00
		d	BRIDGE 2 RT SBL I-85 OVER FLAT CREEK - STA.	SQ. FT	$55.00	16632	$914,760.00
	2		JACKING OF BRIDGES				
		a	BRIDGE 10 I-185 NB OVER I-85 STA. 143+66.94	SQ. FT	$15.00	10941	$164,115.00
		b	BRIDGE 9 I-185 SB OVER I-85 STA. 163+83.08	SQ. FT	$15.00	10941	$164,115.00
		c	BRIDGE 7 HINES ROAD OVER I-85 STA. 253+88.08	SQ. FT	$15.00	11806	$177,090.00
		d	BRIDGE 6 S-2097 (HOGANSVILLE ROAD) OVER I-85 STA. 461+17.44	SQ. FT	$15.00	11496	$172,440.00
		e	BRIDGE 8 SR 54 OVER I-85 STA. 600+21.08	SQ. FT	$15.00	15504	$232,560.00
		f	BRIDGE 5 SIMMS ROAD (CR 17) OVER I-85 STA. 669+_.	SQ. FT	$15.00	13883	$208,245.00
		g	BRIDGE 4 SEWELL ROAD OVER I-85 - STA. 729+47.3	SQ. FT	$15.00	10941	$164,115.00
		h	BRIDGE 3 FOREST ROAD OVER I-85 - STA. 857+88.79	SQ. FT	$15.00	11496	$172,440.00
D.			GRADING AND DRAINAGE				
	1	a.	UNCLASSIFIED EXCAVATION	CU. YD.	$3.00	236000	$708,000.00
	2		DRAINAGE	LUMP	LUMP	LUMP	$1,346,000.00
E.			BASE & PAVING				
	1		GRADED AGGREGATE BASE 12"	TONS	$13.40	440780	$5,906,452.00
	2		CONTINUOUSLY REINFORCED CONCRETE CRC)- 11" Shoulders	SQ. YD.	$49.50	235600	$11,662,200.00
	3		CONTINUOUSLY REINFORCED CONCRETE (CRC)- 11" Overlay	SQ. YD.	$49.50	417600	$20,671,200.00
	4		CONTINUOUSLY REINFORCED CONCRETE CRC)- 11" New	SQ. YD.	$49.50	417600	$20,671,200.00
	5		ASPHALTIC CONCRETE OVERLAY - LEVELING	TON	$42.00	32120	$1,349,040.00
	6		ASPHALTIC CONC. 19mm, 330 LB/SY- 3" Overlay	TON	$43.00	68940	$2,964,420.00
	7		ASPHALTIC CONC. 19mm, 330 LB/SY- 3"	TON	$43.00	107800	$4,635,400.00
	8		BITUMINOUS TACK COAT	GAL	$1.05	51840	$54,432.00
F.			LUMP SUM ITEMS				
	1		TRAFFIC CONTROL	LUMP	LUMP	LUMP	$400,000.00
			DETOUR PAVEMENT@ 208,900 SQ. YD	LUMP	LUMP	LUMP	$5,222,500.00
	2		CLEARING & GRUBBING - 407 AC	LUMP	LUMP	LUMP	$488,400.00
	3		GRASSING - 151 AC	LUMP	LUMP	LUMP	$113,250.00
	4		EROSION CONTROL	LUMP	LUMP	LUMP	$1,900,000.00
G.			MISCELLANEOUS ITEMS				
	1		GUARDRAIL, TP W	LF	$10.10	21900	$221,190.00
	2		GUARDRAIL ANCHORAGE, TP 1	EA	$450.00	47	$21,150.00
	3		GUARDRAIL ANCHORAGE, TP 12	EA	$1,551.00	47	$72,897.00
	4		FENCE, R/W, GAME	LF	$12.40	156800	$1,944,320.00
	5		APPROACH SLABS	SQ YD	$113.50	3820	$433,570.00
	6		PRECAST BARRIER, METHOD 3	LF	$36.00	7900	$284,400.00
	7		PRECAST BARRIER, METHOD 4	LF	$36.00	300	$10,800.00
	8		CONCRETE BARRIER, TP S-1	LF	$60.00	16900	$284,400.00
	9		AGGREGATE SURFACE COURSE	TON	$16.00	1000	$16,000.00
	10		CCTV - REMOTE CONTROL CAMERA	EA	$30,000.00	4	$120,000.00

Project Concept Report page __11_
Project Number: MSL-0003-00(246)
P. I. Number:0003246
County: Troup & Meriwether

MSL-0003 (246) - PI# 0003246
Cost Estimate

		Description	Unit	Unit Price	Quantity	$ Amount
H.		SPECIAL ITEMS				
	1	ENGINEER'S OFFICE - TP 3	EA	$62,000.00	1	$62,000.00
		SUBTOTAL				$86,880,661.00
		INFLATION 2 YEARS @ 5% /YR				$8,905,267.75
		E & C 10%				$8,688,066.10
		TOTAL				$104,473,994.85
		TOTAL PROJECT COST - CONCEPT				$104,474,000.00

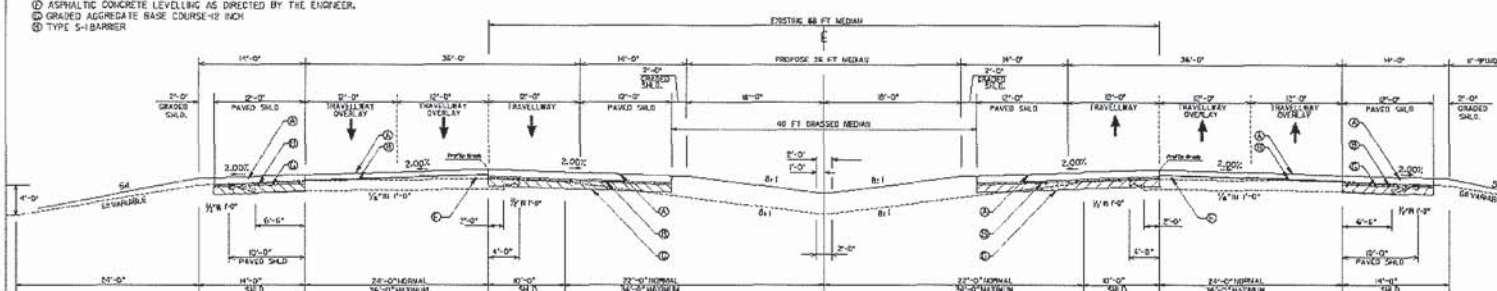
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	MSL - 0003 (246)		



TYPICAL SECTION
INSIDE WIDENING FOR ONE S.O.V. LANE

(A) CONTINUOUSLY REINFORCED CONCRETE (CRC)-8 INCH
(B) ASPHALTIC CONCRETE, 19mm SUPER PAVE (330 LB./SQ. YD.)-3 INCH

(C) ASPHALTIC CONCRETE LEVELLING AS DIRECTED BY THE ENGINEER.
(D) GRADED AGGREGATE BASE COURSE-12 INCH
(E) TYPE S-1 BARRIER



TYPICAL SECTION
INSIDE WIDENING FOR ONE S.O.V. LANE

REVISED AUGUST 31, 2004

CONSTRUCTION ACTIVITIES
- STAGE I
- STAGE II
- STAGE III
- TEMPORARY PAVING
- MSL 0003 (246) MERIWETHER/ TROUP
- TEMPORARY CONCRETE BARRIER

TRAFFIC OPERATION
- STAGE I
- STAGE II
- STAGE III

R.E. SHAH & ASSOCIATES, INC.
ENGINEERS
TRANSPORTATION / SITE / CIVIL
1010 BISHESTER PARKWAY
BUILDING 1000, SUITE 240
ATLANTA, GEORGIA 30009
TELEPHONE 770/436-6070

DATE	REVISIONS	DATE	REVISIONS

GEORGIA
DEPARTMENT OF TRANSPORTATION
TYPICAL SECTION
PROJECT MSL - 0003 (246)
COUNTY TROUP / MERIWETHER

T-2M

NEED & PURPOSE

MSL-0003-00(246), P.I. 0003246
Coweta, Meriwether, Troup Counties

Interstate 85(SR 403) Widening and Reconstruction from I-185 in Troup County to SR 14 in Coweta County

Background

This project is located within Coweta, Meriwether, and Troup Counties. The County percentages are 9, 30, and 61 respectively. The total project length is approximately 14.76 miles. Based on the County percentages this project will widen I-85 (SR403) approximately 1.3 miles into Coweta County which is located inside the Atlanta urbanized area. Because this project is mainly outside the urbanized area it is not required to be in a Transportation Improvement Program. However, this project will be forwarded to the Atlanta Regional Commission for possible inclusion in the Regional Travel Demand Model based on the regional significance of I-85.

Interstate 85 (SR 403) serves the United States both as a National Highway System (NHS) and Strategic Highway Network (STRAHNET) major corridor. STRAHNET is a network of highways which are important to the United States' strategic defense policy and which provide defense access, continuity and emergency capabilities for defense purposes. Interstate 85 (SR 403) traverses northeast/southwest through the northern half of the state providing mobility and connectivity from the eastern seaboard extending west to Montgomery, Alabama, assisting in promoting economic growth for Georgia through connectivity to other areas of the United States.

Interstate 85 (SR 403) in the project area is functionally classified as Rural Interstate. Truck traffic constitutes an estimated 24% of the total vehicles traveling the corridor according to DOT RC *WEB* Information, with most of the trucks traveling to, from, and through the Metro-Atlanta area. The facility in the project area presently consists of two 12' lanes in each direction separated by an 88' depressed median.

Proposed Improvements

Project MSL-0003-00(246), P.I. 0003246 in Coweta, Meriwether, and Troup Counties proposes to widen I-85 by taking existing inside median space and adding one additional lane in each direction, and includes construction of paved inside and outside shoulders. Full depth shoulder paving along both sides is included in the scope of this project in anticipation for potential future widening projects in the median and, due to the large % of trucks along the outside shoulder.

Project Termini

The project length is approximately 14.76 miles extending from I-185 in Troup County, traversing through Meriwether County, and ending at the SR 14 Interchange in Coweta County. This is the beginning point for the Coweta portion of the 6 lane widening of I-85, Project MSL-0003-00(161), P.I. # 0003161. At present there is no project programmed to address widening of SR 403 (I-85) to 6 lanes from I-85 south to the Georgia state line. No project is required south of the I-85/ I-185 split due to future acceptable levels of service.

Operational Statistics

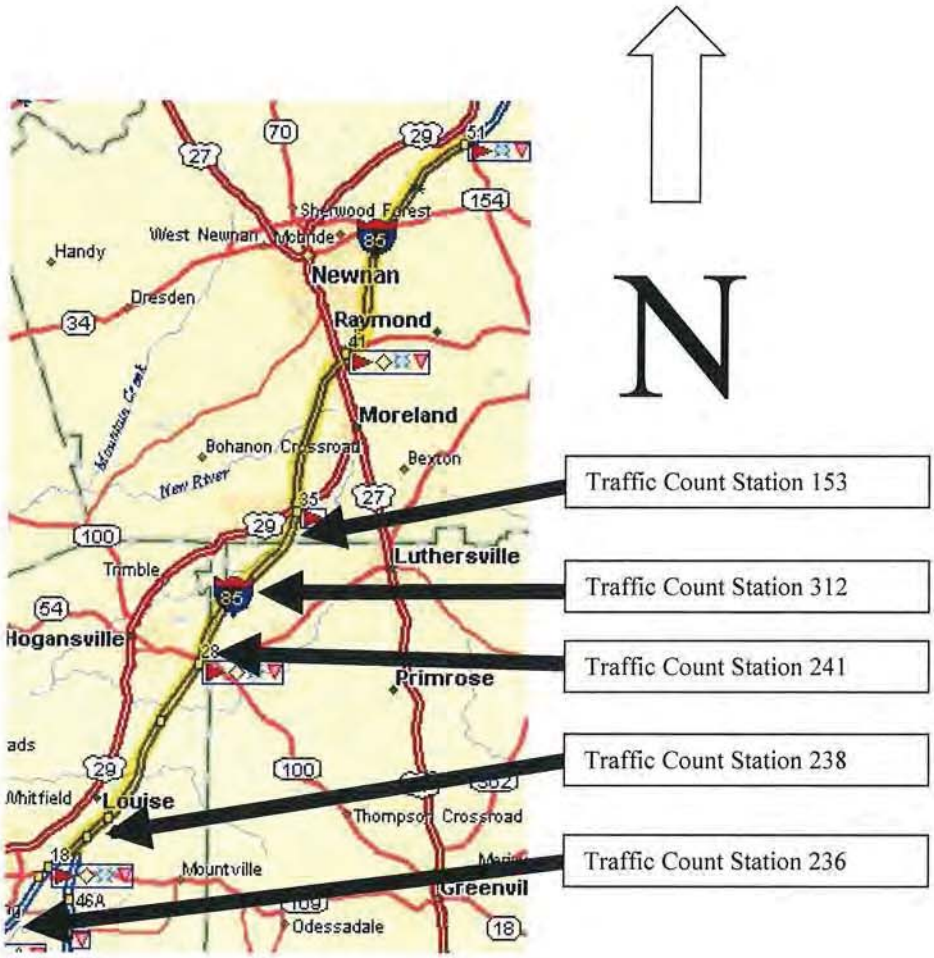
The following chart indicates existing and projected traffic counts and Level of Service (LOS) for each of the stations within the project boundaries. A conservative estimate of traffic growth of 3%, typical for an area transitioning from rural to urban, was applied to the existing traffic figures. However, the historic average growth rate in the project corridor taken from traffic counts compiled from 1990 through 2001 (a twelve year period) at each of the traffic stations indicates traffic count increases averaging 4.64%, 4.56%, 4.71%, 4.71%, and 4.71% at the respective stations, giving an overall average of 4.66% for the corridor. These growth rates indicate a need to evaluate how the facility will be functioning in the future. In order to maintain an acceptable level of service, if the corridor continues to experience the same level of increase in traffic volumes in future years, a project to widen this corridor to 8 lanes will be needed by the year 2020. Also, based on the drop in LOS at TC station 0238 an auxiliary lane is needed on I-85 between I-185 to SR 54/SR 100 to handle the merge of I-85 and I-185. Traffic Count Map is attached refer to Figure 1.

	Troup	Troup	Troup	Meriwether	Coweta
	TC#: 0236	**TC#: 0238**	**TC#: 0241**	**TC#: 0312**	**TC#: 153**
Existing					
2001 Traffic	29730	46160	38420	38420	38420
LOS	B	C	C	C	C
Projections					
2010 Build Year	39954	62034	51633	50531	50531
4 Lane LOS	C	E	D	D	D
6 Lane LOS	**B**	**C**	**C**	**C**	**C**
2015 Traffic	46319	69580	59858	58581	58581
4 Lane LOS	C	F	E	E	E
6 Lane LOS	**B**	**D**	**C**	**C**	**C**
2020 Traffic	53695	80660	69390	67909	67909
4 Lane LOS	D	F	F	F	F
6 Lane LOS	**C**	**E**	**D**	**D**	**D**
2025 Traffic	62094	95845	80244	73531	73531
4 Lane LOS	E	F	F	F	F
6 Lane LOS	**C**	**F**	**D**	**D**	**D**
2030 Traffic	65737	98749	84591	83138	83138
4 Lane LOS	F	F	F	F	F
6 Lane LOS	**C**	**F**	**E**	**E**	**E**

Traffic Count Map:

(Approximate locations of traffic count stations)

Figure1



Level-of-Service

Level-of-Service is defined as a qualitative measure describing operational conditions within a traffic stream. There are six identified Levels-of-Service categories a roadway can be designated. A designated letter, A through F, identifies each of the six categories. Level-of-Service A represents the best operating conditions and Level-of-Service F the worst. For example, Level-of-Service A represents free flow. Individual users are virtually unaffected by the presence of others in the traffic stream. The general level of comfort and convenience provided to the motorist is excellent. Level-of-Service C marks the beginning of a range of flow in which the operation of the individual users becomes significantly affected by interactions with others in the traffic stream. The general level of comfort declines noticeably at this level. Level-of-Service E represents operating conditions at or near capacity. All speeds are reduced to a low, but relatively uniform value. Comfort and convenience levels are extremely poor. Level-of-Service F represents a heavily congested flow with traffic demands exceeding capacity. Volumes are lower than capacity and speeds are below capacity speed.

Accident Data

Accident data has been taken from within each of the traffic stations to determine if any area reflected conditions needing special attention. Accident data is indicated for years, 1996, 1997, 1998, 2000, and 2001. Comparative data is not reflected for the year 1998 * since only 62 % of the accidents statistics are available for that year. Accident data is

complete for year 2000, but there is no comparative data available ** for that year therefore a comparative analysis is not performed.

Comparative Accident Data
(**n/a** = Not available due to incomplete * or unavailable ** data.)

		1996	1997	1998 *	2000	2001
	Statewide Averages Per 100 MVMT for Interstate - Rural	50	49	46	**	63
TC#: 0236 **Troup**	# of Accidents	7	10	6	15	15
	# per 100 MVMT	41	49	30	69	67
	% Higher or Lower than above Statewide Average	9.9% Lower	Equal	n/a	n/a	.6% Higher
TC#: 0238 **Troup**	# of Accidents	42	39	18	37	64
	# per 100 MVMT	46	47	18	29	48
	% Higher or Lower than above Statewide Average	8% Lower	4.1% Lower	n/a	n/a	23.9% Lower
TC#: 0241 **Troup**	# of Accidents	6	4	3	10	4
	# per 100 MVMT	48	31	21	66	26
	% Higher or Lower than above Statewide Average	4% Lower	36.8% Lower	n/a	n/a	58.8% Lower
TC#: 0312 **Meriwether**	# of Accidents	14	12	10	15	21
	# per 100 MVMT	28	23	18	25	34
	% Higher or Lower than above Statewide Average	44% Lower	53.1% Lower	n/a	n/a	46.1% Lower
TC#: 0153 **Coweta**	# of Accidents	12	30	7	21	19
	# per 100 MVMT	80	193	41	114	101
	% Higher or Lower than above Statewide Average	37.5% Higher	394% Higher	n/a	n/a	60.3% Higher

Types of Accidents

For the purpose of this document "type of accident" data reflected in the chart below is by the individual county segments and not within milepost designations. The "type of accident" data was taken from the three years reflecting only complete accident data, the years 1997, 2000, and 2001.

Types of Accidents

	Project Mileage	**Angle/ Intersect**	Rear End	**Side Swipe**	Head on	**Collisions not with a Vehicle**	Totals By Year By County
1997							
Troup	11.02 miles	**2**	**17**	**10**	**0**	**23**	**52**
Meriwether	4.45 miles	**4**	**0**	**4**	**0**	**4**	**12**
Coweta	1.34 miles	**4**	**8**	**0**	**0**	**18**	**30**
2000							
Troup	11.02 miles	**4**	**12**	**8**	**0**	**41**	**65**
Meriwether	4.45 miles	**0**	**6**	**1**	**0**	**4**	**11**
Coweta	1.34 miles	**2**	**9**	**4**	**1**	**5**	**21**
2001							
Troup	11.02 miles	**3**	**31**	**9**	**0**	**42**	**85**
Meriwether	4.45 miles	**0**	**3**	**4**	**0**	**8**	**15**
Coweta	1.34 miles	**5**	**9**	**0**	**0**	**7**	**21**
3 Year Totals by County							
Troup	11.02 miles	**9**	**60**	**27**	**0**	**106**	**202**
Meriwether	4.45 miles	**4**	**9**	**9**	**0**	**16**	**38**
Coweta	1.34 miles	**11**	**26**	**4**	**1**	**30**	**72**
	Grand Totals by Type	**24**	**95**	**40**	**1**	**152**	

Injuries and Fatalities

Troup (MP 17.0 – MP 28.02)			**Meriwether** (MP 0.0 – MP 4.45)			**Coweta** (MP 0.0 – MP 1.34)		
Year	Injuries	Fatalities	Year	Injuries	Fatalities	Year	Injuries	Fatalities
1997	**31**	**0**	**1997**	**3**	**0**	**1997**	**15**	**1**
2000	**44**	**0**	**2000**	**2**	**0**	**2000**	**20**	**0**
2001	**48**	**0**	**2001**	**13**	**1**	**2001**	**8**	**0**
Totals	**123**	**0**	**Totals**	**18**	**1**	**Totals**	**43**	**1**

Project length totals:	**184** Injuries	**2** Fatalities

The traffic volumes and resulting LOS throughout the project length indicates the need to widening the corridor to a minimum of three lanes in each direction.

Programmed Area Projects

Project	Description	Comments
0003161 Coweta	Widening I-85 from SR 14/US 29 to SR 34	Scheduled Let Date 12/2005
310730-Troup	Interchange Reconstruction/Rehabilitation I-185 Conn. at I-85 & I-185	Scheduled Let Date 2007
322240-Troup	Widening SR 109 from I-85 to Stewart Road/I-185 including I-85 Ramp	Scheduled Let Date 2009

Demographic Information

Project Area Economic Indicators	White	African American	American Indian	Asian	Hawaiian And other Pacific Islander	Some other race alone	Two or More Races	Hispanic or Latino
Less than $10,000	828	591	6	34	3	0	25	0
$10,000 to $24,999	2018	760	18	10	0	6	2	8
$25,000 to $44,999	3212	720	12	3	0	13	9	42
$45,000 to $74,999	2339	479	2	5	0	9	22	9
$75,000 to $124,999	1235	233	0	6	0	0	11	0
$125,000 to $199,999	329	26	0	0	0	9	0	9
$200,000 or more	82	14	0	5	0	0	4	4
Totals	10043	2823	38	63	3	37	73	72

The chart represents population and area demographics within a 10 miles radius of project center. The entire project scope takes place within existing right of way, minimizing the impact on the area residents. The facility improvements are likely to provide increased mobility and enhance economic viability for area residents.

Statement of Need and Purpose

This project is justified in anticipation of a tremendous traffic increase while at the same time providing a safer driving environment. I-85 is a major transportation facility both to metropolitan Atlanta and the southeastern United States. This facility is used for numerous reasons including commercial goods movement, professional commutes, and interstate travel. Future traffic projections indicate that future roadway demand will exceed existing carrying capacity and therefore the corridor will need to be widened to 8 lanes by the year 2020. The tremendous population growth and recent development trends in these Counties also suggest the need for improvement of this facility. The widening of I-85 in this corridor from 4 to 6 lanes with the addition of an auxiliary lane from I-185 to SR 54/ SR 100 will serve current and future travel demand and provide a safer driving environment along this segment of roadway.

CONCEPT TEAM MEETING
JAN 14, 2004

QUESTIONS AND CONCERNS:

PI 0003246

1) Concrete Overlay?
2) Do we use Asphalt to Correct Cross Slopes?
3) Widening to Inside First?
5) Concrete Barrier (S-Type) with Removable Barrier or Double Face Guardrail?
6) Will there be Temporary Paving where there is Bridge Jacking?
7) Who will be Responsible for the work to be done on all Bridges of I-185 I/C?
8) Will there be any Traffic Detours or R/W required where there is Bridge Jacking?1
9) Will there be Clearing from Roadway to R/W Fencing (Clear Zone)?
10) Will there be any Ditch Replacements?

PI 0003161

1) Will there be a Correction of the Short Ramps (Exit 35)?
2) Will there be a Design Exception for the Bridge at S.R. 34?
3) Will there be Clearing from Roadway to R/W Fencing (Clear Zone)?
4) Will there be any Ditch Replacements?

RECOMMENDATIONS:

PI 0003246

1) Concrete overlay .
2) CRC Overlay.
3) Keep 12' Lanes thoughout Staging.
4) Keep joint at the Lane line (Need extra room for trucks 14' instead of 12').
5) Concrete Barrier (S-Type in the area of Existing 64 Median Section.
6) Whichever Project starts first should do all Bridge work at
7) Group needs to get together on the 3 Projects at I-185 interchange.
   and decide about the what work that has to be done.
8) Clearing on all Projects from the Edge of Shoulder over to 50'.
9 Include Overhead EMS Sign for Projects .

CONCEPT TEAM MEETING
JAN 14, 2004

PI 0003161

1) Include Design for Noise Walls on Projects.
2) Include Overhead EMS Sign for Projects .
3) Keep 12' Lanes thoughout Staging.
4) Keep joint at the Lane line (Need extra room for trucks 14' instead of 12').
5) Concrete Barrier (S-Type in the area of Existing 64 Median Section.
6) Clearing on all Projects from the Edge of Shoulder over to 50'.

CONCLUSION:

1) Department to inquired about replacing Asphalt Overlay with Concrete Overlay.
2) 17 inch Drop off at E.P. is O.K. for PI 0003246
3) Provide Concrete Barrier (S-Type) in the area of Existing 64 ft . Median
4) Provide Transition for Jersey Shape Barrier.
5) Typical needs to be resolved-PI 003246.
6) Investigate posibility of jacking Bridge at S.R. 34 to avoid Design Exception for Substandard Vertical
Curve.
7) Lighting at S.R. 34 will be done by others, already has High Mass lighting.
8) Coweta County is Interested in Poplar Road Improvements.
9) There will be no need to Require Easements.
10) No work on anticipated between Edge of Shoulder and Right-of-Way (Clear Zone, Replacing Ditches).
11) In project cost estimate provide Subtotal for each section.
12) Vertical Clearances should be Revisited by the Office of Roadway Design.
13) Design will probably need to include noise walls in Hogansville.
14) Project needs to have a VE Study.
15) PI 0003161 Cost is Significally Higher due to Replacing Pavement.
16) No IMR's required.
17) Provide Glare Screen on top of Barrier

ATTACHMENT 7

APPROVED NEPA-CE DOCUMENT

FOR

Project # MSL00-0003-00(246), Troup/Meriwether Counties
PI # 0003246

From North of SR 109 in Troup County to North of Forrest Road/CR 417 in Meriwether County

**(APPROVED NEPA DOCUMENT IS AVAILABLE ON GDOT FILE EXCHANGE
FILE NAME IS 0003246_NEPA_CE-2007.10.12)**

ENVIRONMENTAL COMMITMENTS/REQUIREMENTS

			Specialist Review
Project No. :	MSL-0003-00(246)	404	N/A
County :	Troup/Meriwether	Air/Noise	MH MH
P.I. No. :	0003246	Archaeology	TL TLO
Status:	Categorical Exclusion	Ecology	DC DC
Date Updated :	September 12, 2007	History	CC CC

COMMITMENT/REQUIREMENT	DOCUMENT STIPULATED IN	RESPONSIBLE OFFICE (Concurrence date; if other than OEL)	PLACE ON PLANS? (Yes or No)	REQUIRES A SPECIAL PROVISION? (Yes or No)	STATUS (Pre-Construction: Complete/ Incomplete) (During Construction: ECB Signature upon completion) (Post Construction: Complete/Incomplete)
Pre-Construction Commitments					
Wetlands, streams, and stream buffers shall be delineated on plans. Wetlands will be noted as Environmentally Sensitive Areas (ESA).	Memo	OEL/OCD	Yes	No	Incomplete
The following commitment should be included in the construction contract and should be placed on the plans: "Hand clearing should take place at Wetland 22 (adjacent to Flat Creek) between STA 482+50 and STA 484+50. The commitment to hand-clear may include the use of chainsaws, but large machinery cannot be used. Vegetation must not be cut less than 4 inches above the surface. No grubbing shall occur. This action will avoid the need for a permit under Section 404 of the Clean Water Act."	Memo transmitted to GDOT/OCD PM on July 16, 2007	OEL/OCD	Yes	No	Incomplete

ECB – Please Return Signed Green Sheet to OEL upon completion.

ENVIRONMENTAL COMMITMENTS/REQUIREMENTS

				Specialist Review
Project No. :	MSL-0003-00(246)	404	N/A	
County :	Troup/Meriwether	Air/Noise	MH	MH
P.I. No. :	0003246	Archaeology	TL	TLO
Status:	Categorical Exclusion	Ecology	DC	DC
Date Updated :	September 12, 2007	History	CC	CC

COMMITMENT/REQUIREMENT	DOCUMENT STIPULATED IN	RESPONSIBLE OFFICE (Concurrence date; if other than OEL)	PLACE ON PLANS? (Yes or No)	REQUIRES A SPECIAL PROVISION? (Yes or No)	STATUS (Pre-Construction: Complete/ Incomplete) (During Construction: ECB Signature upon completion) (Post Construction: Complete/Incomplete)
Special Provision 107.23G should be added to the construction contract. This stipulates that any construction or demolition activities shall take place outside of the breeding and nesting season of Eastern phoebes and barn swallows (April 1 – August 31) or exclusionary devices, constructed of plastic or canvas sheeting or other materials proposed by the contractor shall be installed on the bridges prior to the start of breeding season and should be kept in place during project construction. If the restrictive barriers fail to prevent nesting, then the bridge removal must be postponed until August 31 when the breeding season is complete.	CE/Ecology Report	OEL/OCD	No	Yes	Incomplete

During Construction Commitments

Special Provision 107.23G shall be adhered to during construction. This stipulates that any construction or demolition activities shall take place outside of the breeding and nesting season of Eastern phoebes and barn swallows (April 1 – August 31) or exclusionary devices, constructed of plastic or canvas sheeting or other materials proposed by the contractor shall be installed on the bridges prior to the start of breeding season and should be kept in place during project construction. If the restrictive barriers fail to prevent nesting, then the bridge removal must be postponed until August 31 when the breeding season is complete.	CE/Ecology Report	Construction	No	Yes	ECB Signature upon completion

ECB – Please Return Signed Green Sheet to OEL upon completion.

ENVIRONMENTAL COMMITMENTS/REQUIREMENTS

			Specialist Review	
Project No. :	MSL-0003-00(246)	404	N/A	
County :	Troup/Meriwether	Air/Noise	MH	MH
P.I. No. :	0003246	Archaeology	TL	TLO
Status:	Categorical Exclusion	Ecology	DC	DC
Date Updated :	September 12, 2007	History	CC	CC

COMMITMENT/REQUIREMENT	DOCUMENT STIPULATED IN	RESPONSIBLE OFFICE (Concurrence date; if other than OEL)	PLACE ON PLANS? (Yes or No)	REQUIRES A SPECIAL PROVISION? (Yes or No)	STATUS (Pre-Construction: Complete/ Incomplete) (During Construction: ECB Signature upon completion) (Post Construction: Complete/Incomplete)
Post Construction Commitments					
None					

ECB – Please Return Signed Green Sheet to OEL upon completion.

ATTACHMENT 8

VALUE ENGINEERING STUDY IMPLEMENTATION LETTER

FOR

Project # MSL00-0003-00(246), Troup/Meriwether Counties
PI # 0003246

From North of SR 109 in Troup County to North of Forrest Road/CR 417 in Meriwether County

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: MSL-0003-00(161) & MSL-0003-00(246) **OFFICE:** Engineering Services
Coweta/Meriwether/Troup
P. I. Nos.: 0003161 & 0003246
I-85 Widening from north of Forest Road to north of S.R. 34

DATE: August 10, 2005

FROM: Brian Summers, P.E., Project Review Engineer BEW

TO: Brent Story, P.E., State Road and Airport Design Engineer

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

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

ALT No.	Description	Savings PW & LCC	Implement	Comments
1	Widen the entire length of highway to the inside	-$1,924,099 (cost increase)	No	Excess pavement will not be utilized for a long time. Also, additional cost for drainage was not included.
3	Lower the roadway at the eleven bridge sites	$296,507	No	Due to possible conflicts with the existing bridge substructure and additional staging concerns.
4	Use a 4.75 mm flexible mix for the interlayer beneath the Continuous Reinforced Concrete Pavement Course	$5,921,698	No	The current recommendation by OMR is to use 3" - 19 mm Superpave Asphaltic Concrete as the interlayer.
5	Use a 9.5 mm flexible mix for the interlayer beneath the Continuous Reinforced Concrete Pavement Course	$11,580,862	No	The current recommendation by OMR is to use 3" - 19 mm Superpave Asphaltic Concrete as the interlayer.
6	Meet the 16.5 minimum vertical clearance	$1,128,281	No	Does not meet GDOT Policy to have 17' vertical clearance when jacking a bridge.
7A	Shift improvements to the inside and use Concrete Median Barriers and a piped drainage system in the 88' median	$5,060,400	No	Cost savings does not appear to reflect the additional costs that would be associated with modifying the bridge caps and replacement of deck sections.

ALT No.	Description	Savings PW & LCC	Implement	Comments
7B	Shift improvements to the inside and use Cable Guardrail and a piped drainage system in the 88' median	$10,024,031	No	Cost savings does not appear to reflect the additional costs that would be associated with modifying the bridge caps and replacement of deck sections. The Cable Median Barrier should still be considered.
7C	Shift improvements to the inside and use Cable Guardrail and a ditch drainage system in the 88' median	$11,999,284	No	Cost savings does not appear to reflect the additional costs that would be associated with modifying the bridge caps and replacement of deck sections. The Cable Median Barrier should still be considered.
8	Meet 16' minimum clearance	$1,949,702	No	Does not meet GDOT Policy to have 17' vertical clearance when jacking a bridge.
11	Eliminate the new Game/Right of Way Fence	$4,036,706	No	Does not meet current GDOT Guidelines pertaining to replacement of existing fences.
12	Do no work on Big Poplar Road Bridge	$281,385	No	Does not meet GDOT minimum vertical clearance.
13	Build Big Poplar Road Bridge to future interchange standards as part of these projects	Design Suggestion	Yes	Should be considered and coordinated with future project and reflected in the IJR, Concept Report, etc.
14	Make the Big Poplar Road Interchange a part of these projects	Design Suggestion	No	Could cause delays in the development of this project.
15	Use Pre-Welded Reinforcing Mats in lieu of hand-tie mats for Pavement Reinforcement	Design Suggestion	Yes	OMR does not have a problem with using Pre-Welded Reinforcing Mats.
20,22 & 23	Use a thinner pavement section while maintaining operational requirements	$5,637,642	No	Is not equal or better than what was proposed in the original design.
21	Increase Continuous Reinforced Concrete thickness and increase Reinforcing Bar spacing	Design Suggestion	No	Is not equal or better than what was proposed in the original design.
24	Use pavement "turndown" to reduce width of full depth shoulders	$409,475	No	Would trap moisture under the Continuous Reinforced Concrete Slabs.

A meeting was held on June 2, 2005 to discuss the above recommendations. David Painter of FHWA, Jason McCook, Andy Casey and Stanley Hill of Road Design, and Brian Summers and Ron Wishon of the Office of Engineering Services were in attendance. Additional information and justification was provided by e-mail on August 5 & 8, 2005.

The above reflects the consensus of those in attendance and those that provided comments.

Approved: _____ **Date:** 8/12/05
David E. Studstill, Jr., P. E., Chief Engineer

Approved: _____ **Date:** 3/28/06
FR: **Robert Callan, P. E., FHWA Division Administrator**

REW

Attachments

c: Gus Shanine/David Painter, FHWA
Andy Casey
Jason McCook
Stanley Hill
Marc Mastronardi
Lamar Pruitt
Debra Benton
Derrick Cameron
Paul Liles
Vince Wilson
Lisa Myers

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

MAY 2005

FILE MSL-0003-00(161) & (246)
Coweta, Meriwether & Troup Counties
PI # 0003161 & 0003246

OFFICE Road Design

DATE May 18, 2005

FROM Brent A. Story, P.E., State Road & Airport Design Engineer

TO Brian Summers, P.E., Project Review Engineer

SUBJECT **VE Study Response**

This is the response to the VE study conducted on February 17-18, 2005, for the above referenced projects. The VE study recommendations are listed in the table below.

ALT. NO.	DESCRIPTION	RESPONSES/ACTION TAKEN
1	Widen to the inside	No Action Taken.
3	Locally lower road to eliminate bridge jack	No Action Taken. May expose the footing of the bridge pier/bent.
4	Use 4.75 mm flexible mix for interlayer	No Action Taken. See Attachment for explanation.
5	Use 9.5 mm stone matrix asphalt mix for interlayer	No Action Taken. See Attachment for explanation.
6	Meet the 16.5 foot minimum vertical clearance	No Action Taken. GDOT's policy is to meet 17' vertical clearance when jacking a bridge.
7A	Shift improvements to the inside and use concrete median barrier and closed drainage system with 88 foot median	No Action Taken. See Attachment for explanation.
7B	Move construction on the 88 foot median to inside and use piped drainage and cable guardrail	No Action Taken. See Attachment for explanation.
7C	Move Construction on the 88 foot median to inside and use ditch drainage and cable guardrail	No Action Taken. See Attachment for explanation.
8	Meet the 16 foot minimum vertical clearance	No Action Taken. GDOT's policy is to meet 17' vertical clearance when jacking a bridge.
11	Eliminate the new game/right-of-way fence	No Action Taken. GDOT has a policy to replace all existing L/A fence with the new taller game fence.
12	Do no work on the Big Poplar Road bridge	No Action Taken. Please see #13 for explanation.
13	Build Big Poplar Road Bridge to future interchange standards as part of these projects	No Action Taken. Need an approve IJR prior to design. Outside the scope of work.
14	Make Big Poplar Road interchange a part of current projects	No Action Taken. Need an approve IJR prior to design. Outside the scope of work.

15	Use pre-welded reinforcing mats in lieu of hand-tie mats for pavement reinforcing	Will implement. See Attachment for explanation.
20,22,23	Use a thinner pavement section while maintaining operational requirements	No Action Taken. See Attachment for explanation.
21	Increase continuous reinforced concrete thickness and increase reinforcing bar spacing	No Action Taken. See Attachment for explanation.
24	Use pavement "turndown" to reduce pavement width	No Action Taken. See Attachment for explanation.

BAS:JLM:CAC:ss

Attachment

cc: David Painter – FHWA
Buddy Gratton, Director of Preconstruction
David Graham, State Construction Engineer
Attn: Marc Mastronardi, Construction Liaison Engineer
Thomas Howell, District Engineer- District Three
Attn: Lamar Pruitt, District Construction Engineer
Thomas Howell, District Engineer-District Three
Attn:Debra Benton, District Environmentalist
Georgene Geary, State Materials & Research Engineer
Attn: A.J. Jubran, Pavement Design Engineer
Keith Golden, State Traffic Safety & Design Engineer
Attn: Derrick Cameron, Traffic Design Supervisor
Paul Liles, State Bridge & Structural Design Engineer
Attn: Vince Wilson, Assistant Design Group Leader
David Mulling, Project Review Engineer
Attn: Lisa Myers, Design Review Engineer Manager
Stanley Hill, Design Group Manager

Alternative #4: Use 4.75 mm Superpave mix for the interlayer course beneath the CRCP instead of the 19 mm Superpave mix.

The comparison is being done for a 3 inch layer of 19 mm SP and for a 2 inch layer of 4.75 mm SP.

The difference in thickness favors the 4.75 mm SP from a quantities point of view.

The 4.75 mm SP mix has a larger surface area than the 19 mm SP. A larger surface area requires more asphalt content to achieve the same film coating called for in Mix Design Level A.

Also the 4.75 mm SP mix is not a commonly used mix by GDOT except for low volume roads.

Alternative #5: Use 9.50 mm SMA flexible mix for the interlayer course beneath the CRCP instead of the 19 mm Superpave mix.
The comments are for a 3 inch layer of 19 mm SP and for a 3 inch layer of 9.50 mm SMA.

The 9.5 mm SMA mix uses polymer modified asphalt. Polymer modified asphalts are more costly than neat asphalts.

The 9.5 mm gradation has a larger surface area than that of the 19 mm gradation. This increase in surface area will require more asphalt to achieve the same film coating for a given mix design level.

The 9.5 mm SMA mix has more targeted uses. The 19 mm SP mix is a standard asphalt mix, with several applications, which makes its price lower than the 9.5 mm SMA mix.

Alternative #4 and Alternative #5:

The standard interlayer material is 3 inches of 19 mm Superpave.

Alternative # 7A- Shift Improvements to Inside and Concrete Median Barrier:

In our opinion as it relates to the bridges please note:
To provide (a) S1 barrier with gap (1'-5 ½"), (b) a 22 foot travel width for two lanes, (c) a temporary barrier and edge clearance (3'-0") and (d) bar lap length of 2'-4", a total length of 28'-9 ½" is required. The available length from I85 mainline to NBL or SBL existing exterior beam is 26'-6". It appears the 1st interior deck section would still require replacement.
If you could accomplish the recommendation, the existing cantilever cap would require modifications as its shear capacity would be exceeded by the new loading conditions. It does not appear that the VE Study addresses this condition.
To enclose the 88 regions at the Bethlehem Church Road intersection and the SR 14 and CSX intersection would require two additional beams and 16'-9" of new deck per site. The net effect would be no bridge cost savings. It does not appear that the cost estimate in the VE study addresses this.
The bridge savings identified on sheet 8 of 9 Alternative No. 7A shows a total bridge length (all directions) Project 246 to be 7,065 LF. In our estimate this length is +/- 1046 ft.

Alternative # 7B- Shift Improvements to Inside and Cable Guardrail:
Same implications as Alternative 7A as it relate to the Bridge widening.
Further in our opinion, Cable Guardrail is not very widely used in Georgia. To our knowledge, there are no Standards, construction Details and Construction Specifications available for this work.
Also some temporary pavement work will require in order to provide 4 ft. separation between edge of travel and construction work area.

Alternative # 7C- Shift Improvements to Inside and Cable Guardrail and Median Ditch:
Same implications as Alternative 7A as it relate to the Bridge widening.
Further in our opinion, Cable Guardrail is not very widely used in Georgia. To our knowledge, there are no Standards, construction Details and Construction Specifications available for this work.
Also some temporary pavement work will require in order to provide 4 ft. separation between edge of travel and construction work area.

Alternative #15: Use pre-welded reinforcing mats in-lieu of hand tied mats

OMR has no problem with the use of pre-welded reinforcing mats.

Alternatives #20, 22, 23: Use a thinner pavement section while maintaining operational needs

The VE study proposes to reduce the 11 inch slab thickness by any of the following three methods:

Use of higher strength concrete & higher strength steel
Use of higher strength concrete with same steel
Use of same strength concrete with higher strength steel

OMR does not concur with any of those recommendations.

Normal strength concrete is preferred for constructability purposes. However, on typical Interstate construction, high strength concrete is used.

If a higher strength concrete is used, there is a higher potential for the slabs to develop curling and warping stresses, than with normal concrete.

Warping and curling stresses are residual stresses. With normal temperature fluctuations experienced in the field, there is an increased potential for distresses associated with warping and curling to cause pavement failure.

Higher strength steels are typically less ductile than lower strength steels near the yield point. It is not believed that this point will ever be reached during the service life of the pavement. So a higher strength, higher cost steel will not add any value.

Alternative #21: Increase CRCP thickness and increase re-bar spacing

This contradicts Items 20, 22, 23.

Alternative #24: Use pavement turndown to reduce the width of full depth shoulder

As shown on the sketches, the proposed pavement turndown is 1 foot wide and 2 feet deep. It is located at the edge of the CRC slab, and rests above a 3 inch 19 mm SP interlayer, which has been placed above the GAB layer.

Precipitation moisture seeps through cracks. The 19 mm SP layer normally allows for the drainage of this moisture to the edges. The GAB is an impermeable layer.

The turndown configuration creates a dam that traps moisture under the CRC slab. This configuration inhibits the free drainage of infiltration moisture and long term will impact the performance of the CRC pavement.

Summers, Brian

From: Myers, Lisa
Sent: Thursday, May 19, 2005 12:36 PM
To: Summers, Brian; Mulling, David
Subject: FW: SUSPECT: MSL-0003-00(161)&(246) Comments on GDOT responses

Here are some comments from David Painter about the Coweta, Meriwether, Troup (PI No. 0003161 & 0003246) VE Study. I printed out a copy and put them with the responses on the pile of VE Reports.

I will copy you with my response to David.

Lisa Myers
Design Review Engineer Manager/VE Coordinator

GA DOT - Engineering Services
2 Capitol Square Room 266
Atlanta, GA 30334

404-651-7468

-----Original Message-----
From: Painter, David [mailto:David.Painter@fhwa.dot.gov]
Sent: Thursday, May 19, 2005 11:57 AM
To: Myers, Lisa
Subject: SUSPECT: MSL-0003-00(161)&(246) Comments on GDOT responses

1. Alt 4 - What is GDOT's evaluation or conclusion about this alternative?
2. Alt 5 - The comparison was not between 3" of 19 MM SP and 3" of 9.5MM SMA. It was between 3" of 19 MM SP and 1" of 9.5MM SMA. What is GDOT's evaluation or conclusion about this alternative?
3. Alt 7A - The VE study did not include a bar lap length of 2'4". This is a valid criticism, but there could be ways to address this. Without the bar lap length everything fits.
Also how is the shear capacity of the existing cap exceeded by the new loading conditions? For the bridges located in an 88 foot wide median, I do not understand how the net effect could be no bridge cost savings if no existing deck removal is needed.
4. Alts 7B & C - There are two cable guardrail specifications for the four cable gdrail project which I believe are being let to construction next month. There is a fifth project on the Stone Mtn freeway with uses still another spec. I believe that this project is in the same letting. So a lack of specification info is insufficient grounds for not considering this VE alternative. There may indeed be some temporary pavement needed between the work area and the traveled way. This is a valid criticism. What is GDOT's evaluation or conclusion about these alternatives?
5. Alt 21 - This alternative does not contradict Alts 20, 22 and 23 since they are completely separate items. What is GDOT's evaluation or conclusion about this alternative?
6. Alt 24 - The comment that the turndown could trap moisture underneath the pavement is a valid criticism. I agree.

Thank you,

David Painter
MSE, PE
Tel: 404 562-3658

Wishon, Ron

From: Issa, Moussa
Sent: Friday, August 05, 2005 6:01 PM
To: Casey, Andy
Cc: Myers, Lisa; McCook, Jason; Jubran, Abdallah; Wishon, Ron
Subject: RE: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

Andy,
My only concern is the level of friction between the CRC pavement and the type of Asphalt interlayer considered. The interlayer friction is very critical to the early thermal movement at the time of construction, especially for CRC pavements. This should be reduced to control CRC slab movement and therefore control crack spacing and enhance the pavement long-term performance. While crack spacing can be controlled to some extent by the reinforcing steel, the dominant factor is the friction. We have seen some slides from Virginia , presented by "Butch" and showing early cracks development. Again which interlayer to use??

If 3" 19mm Superpave (Superpave are know to be permeable mixes) is used, we have to make sure it is part of a properly designed internal drainage system for long-term pavement performance.

Thanks,
Moussa

From: Casey, Andy
Sent: Friday, August 05, 2005 2:19 PM
To: Wishon, Ron
Cc: Myers, Lisa; McCook, Jason; Jubran, Abdallah; Issa, Moussa
Subject: RE: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

Ron,

Since the implementation meeting we had back in June, the lab has designed and approved numerous pavement structures with a 3" interlayer. I will make the assumption that the 3" 19 mm SP interlayer is the thickness and type of mix that we are going with.

If anyone has something different please speak now; if not I think we can put this issue to rest and complete the VE Study Implementation.

Thank you,

C. Andy Casey, P.E.
Design Group Manager
Georgia Department of Transportation
Phone: 404-657-9757
Fax: 404-657-0653

From: Wishon, Ron
Sent: Thursday, August 04, 2005 2:00 PM
To: McCook, Jason; Casey, Andy
Cc: Myers, Lisa
Subject: RE: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

Have you heard anything on this yet?

Thanks,

Ron

From: McCook, Jason
Sent: Wednesday, July 06, 2005 8:14 AM
To: Rabun, JT; Jubran, Abdallah
Cc: Wishon, Ron; Hill, Stanley
Subject: FW: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

Gentlemen,

A VE study was conducted on I-85 (P.I. Nos. 0003161 & 0003246) which resulted in two alternates (No. 4&5) which are related to the proposed pavement structure, this is to request that a response or comment be prepared so that the VE study implementation can be completed. If you need additional information in regards to these items please contact me or Stanley Hill.
Thanks,

Jason L. McCook
Asst. State Road & Airport Design Engineer
Georgia Department of Transportation
Phone: 404.657.8249
Fax: 404.657.0653

From: Wishon, Ron
Sent: Wednesday, July 06, 2005 7:52 AM
To: McCook, Jason; Casey, Andy; Hill, Stanley
Cc: Myers, Lisa
Subject: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

When we last met on the above noted projects, you were waiting on some additional information from the Lab concerning Alt. Nos. 4 & 5. Have you received that information yet? We need to get this VE Study finalized as soon as possible. Thanks!

Ron Wishon
Assistant Project Review Engineer
Engineering Services
Room 264
404-651-7470
404-463-6131 (FAX)

Wishon, Ron

From: Jubran, Abdallah
Sent: Monday, August 08, 2005 4:07 PM
To: Casey, Andy; Wishon, Ron
Cc: Myers, Lisa; McCook, Jason; Issa, Moussa
Subject: RE: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

Andy and Ron,

When we hosted the NHI Pavement Design Course about two years ago, Dr. Darter pointed out the importance of having an asphalt interlayer between a CRC pavement and the base it is constructed on, even if that base is an existing slab. The intent is to have the CRC and Base move relatively independent of each other, and minimize their friction.

In the past, a 5 inch layer of Econocrete or alternately a 5 inch layer of 25 mm SP were specified. Between both alternates, Econocrete eventually lost favor. We have been using the AC interlayer.

We now recommend a 3 inch layer of 19 mm SP instead of 5 inches of 25 mm SP. The 3 inch AC Interlayer thickness is supported by Dr. Darter, as well as by previous investigations on interlayer thickness.

A. J. Jubran, P.E.
Pavement Management Branch Chief
404-363-7582
404-363-7684 fax

From: Casey, Andy
Sent: Friday, August 05, 2005 2:19 PM
To: Wishon, Ron
Cc: Myers, Lisa; McCook, Jason; Jubran, Abdallah; Issa, Moussa
Subject: RE: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

Ron,

Since the implementation meeting we had back in June, the lab has designed and approved numerous pavement structures with a 3" interlayer. I will make the assumption that the 3" 19 mm SP interlayer is the thickness and type of mix that we are going with.

If anyone has something different please speak now; if not I think we can put this issue to rest and complete the VE Study Implementation.

Thank you,

C. Andy Casey, P.E.
Design Group Manager
Georgia Department of Transportation
Phone: 404-657-9757
Fax: 404-657-0653

From: Wishon, Ron
Sent: Thursday, August 04, 2005 2:00 PM
To: McCook, Jason; Casey, Andy
Cc: Myers, Lisa

Subject: RE: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

Have you heard anything on this yet?

Thanks,

Ron

From: McCook, Jason
Sent: Wednesday, July 06, 2005 8:14 AM
To: Rabun, JT; Jubran, Abdallah
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Subject: FW: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

Gentlemen,

A VE study was conducted on I-85 (P.I. Nos. 0003161 & 0003246) which resulted in two alternates (No. 4&5) which are related to the proposed pavement structure, this is to request that a response or comment be prepared so that the VE study implementation can be completed. If you need additional information in regards to these items please contact me or Stanley Hill.
Thanks,

Jason L. McCook
Asst. State Road & Airport Design Engineer
Georgia Department of Transportation
Phone: 404.657.8249
Fax: 404.657.0653

From: Wishon, Ron
Sent: Wednesday, July 06, 2005 7:52 AM
To: McCook, Jason; Casey, Andy; Hill, Stanley
Cc: Myers, Lisa
Subject: VE Study Implementation - MSL-0003-00(161) & MSL-0003-00(246) Coweta/Meriwether/Troup {P.I. Nos. 0003161 & 0003246}

When we last met on the above noted projects, you were waiting on some additional information from the Lab concerning Alt. Nos. 4 & 5. Have you received that information yet? We need to get this VE Study finalized as soon as possible. Thanks!

Ron Wishon
Assistant Project Review Engineer
Engineering Services
Room 264
404-651-7470
404-463-6131 (FAX)

Value Engineering STUDY RESPONSES

Projects MSL-0003-00(161) P.I. No. 0003161 and MSL-0003-00 (246) P.I. No. 0003246

Item 4: Use 4.75 mm Superpave mix for the interlayer course beneath the CRCP instead of the 19 mm Superpave mix.

The comparison is being done for a 3 inch layer of 19 mm SP and for a 2 inch layer of 4.75 mm SP.

1. The difference in thickness favors the 4.75 mm SP from a quantities point of view.

2. The 4.75 mm SP mix has a larger surface area than the 19 mm SP. A larger surface area requires more asphalt content to achieve the same film coating called for in Mix Design Level A.

3. Also the 4.75 mm SP mix is not a commonly used mix by GDOT except for low volume roads.

Item 5: Use 9.50 mm SMA flexible mix for the interlayer course beneath the CRCP instead of the 19 mm Superpave mix.

The comments are for a 3 inch layer of 19 mm SP and for a 3 inch layer of 9.50 mm SMA.

1. The 9.5 mm SMA mix uses polymer modified asphalt. Polymer modified asphalts are more costly than neat asphalts.

2. The 9.5 mm gradation has a larger surface area than that of the 19 mm gradation. This increase in surface area will require more asphalt to achieve the same film coating for a given mix design level.

3. The 9.5 mm SMA mix has more targeted uses. The 19 mm SP mix is a standard asphalt mix, with several applications, which makes its price lower than the 9.5 mm SMA mix.

Items 4 and Item 5: The standard interlayer material is 3 inches of 19 mm Superpave.

Item 15: Use pre-welded reinforcing mats in-lieu of hand tied mats

OMR has no problem with the use of pre-welded reinforcing mats.

Item 20, 22, 23: Use a thinner pavement section while maintaining operational needs

The VE study proposes to reduce the 11 inch slab thickness by any of the following three methods:

1. Use of higher strength concrete & higher strength steel
2. Use of higher strength concrete with same steel
3. Use of same strength concrete with higher strength steel

OMR does not concur with any of those recommendations.

Normal strength concrete is preferred for constructability purposes. However, on typical Interstate construction, high strength concrete is used.

If a higher strength concrete is used, there is a higher potential for the slabs to develop curling and warping stresses, than with normal concrete.

Warping and curling stresses are residual stresses. With normal temperature fluctuations experienced in the field, there is an increased potential for distresses associated with warping and curling to cause pavement failure.

Higher strength steels are typically less ductile than lower strength steels near the yield point. It is not believed that this point will ever be reached during the service life of the pavement. So a higher strength, higher cost steel will not add any value.

Item 21: **Increase CRCP thickness and increase re-bar spacing**

This contradicts Items 20, 22, 23.

Item 24: **Use pavement turndown to reduce the width of full depth shoulder**

As shown on the sketches, the proposed pavement turndown is 1 foot wide and 2 feet deep. It is located at the edge of the CRC slab, and rests above a 3 inch 19 mm SP interlayer, which has been placed above the GAB layer.

Precipitation moisture seeps through cracks. The 19 mm SP layer normally allows for the drainage of this moisture to the edges. The GAB is an impermeable layer.

The turndown configuration creates a dam that traps moisture under the CRC slab. This configuration inhibits the free drainage of infiltration moisture and long term will impact the performance of the CRC pavement.

ATTACHMENT 9

TRANSPORTATION MANGEMENT PLAN-
LETTER OF CONCURRENCE DATED APRIL 25, 2012
and
DETOUR MAP

Department of Transportation
State of Georgia

Office of Program Delivery

Transportation Management Plan

Project Number: MSL00-0003-00(246)
County: Troup
P.I. Number: 0003246

Federal Route: I-85
State Route: SR 403

Transportation Management Plan

Project Description: Inside widening and overlay of SR 403/I-85 of I-85 from 0.257 mile North of SR 109/Lafayette Parkway to 1.628 mile North of I-185 in Troup County. Approximate length of project is 3.343 mile

It has been determined that this project is not classified as Significant Project. Further this project is not located in any Transportation Management Area (TMA). Hence no Formal Transportation Management Plan (TMP) is required. Letter of concurrence from Director of Construction is attached.

This project will cause little or no disruption to the travelling public. Therefore basic TMP will consist of Temporary Traffic Control Plans. Temporary Traffic Control Plans will follow Special Provision "Traffic Control" and Manual of Uniform Traffic Control Devices Part 6 "Temporary Traffic Control" Further project construction document will provide detail for stage construction.

TMP Roles and Responsibilities:

TMP Manager:	Marc Mastronardi, State Construction Engineer
Approval Contact(s):	Ken Robinson, District Construction Engineer
TMP Implementation Task Leader(s):	Assistant District Construction Engineer
TMP Monitors:	David Neighbors, Area 5, Engineer Michael Presley, District Traffic Engineer Scott Parker, District Traffic Operation Manager
Communications:	Kimberly Larson, District Communication Specialist
Emergency Contact:	Ken Robinson, 706-646-7508 David Neighbors, 706-845-4415 Michael c. Presley, 706-646-6676 Scott Parker, 706-646-7589 Kimberly Larson, 706-646-7532 Adam Smith, 706-621-9704

R.K. SHAH & ASSOCIATES, INC.

• ENGINEERS •
TRANSPORTATION / SITE / CIVIL

ESTABLISHED 1988

Raju (Rajendrakumar) K. Shah, P.E.

April 25, 2012

Mr. Thomas Howell, P.E. Director
Construction Division
Georgia Department of Transportation
600 West Peachtree Street, N.W.
Atlanta, Georgia 30308

RE: MSL00-0003-00(246), Troup/Meriwether Counties, PI # 0003246
SUB: Transportation Management Plan

Dear Mr. Howell:

This project is for the inside widening of I-85 from north of SR 109 in Troup County to north Forest Road crossover in Meriwether County, approximately 15 miles. As part of project, existing bridge over Beech Creek and Flat Creek will replaced. Attached are the project Typical Section 5-01, 5-02 and 5-03.

It is our opinion that based upon Topps 5240-1" Work Zone Safety and Mobility Policy " Appendix "C" –Significant Project Flowchart"; since this project is not within identified Transportation Management Area (TMA) required traffic control to widen I-85 including replacement of bridges can be addressed by Special Provision 150 "Traffic Control" hence no Transportation Management Plan (TMP) required. For your review attached are the Stage Construction Typical Sections. (5 Drawings). Also attached is the copy of Appendix "C" –Significant Project Flow Chart.

Please review attached documents and advise us as soon as possible, if our interpretation is correct and that no formal Transportation Management Plans (TMP) is needed.

If you are in agreement with our interpretation that no formal Transportation Plan (TMP) is needed, please provide your concurrence. For your information we have attached concurrence from District 3 Construction Engineer.

Please let me know, if you need any additional information/clarification.

Yours very truly,
R. K. SHAH & ASSOCIATES, INC.

Raju (Rajendrakumar) K. Shah, P.E.
Project Manager

Concurred
Thomas Howell, P.E., Director
Construction Division

C.C: Mr. Stanley Hill, P.E., Assistant State Program Delivery Engineer
Office of Program Delivery/Georgia Department of Transportation
ATT: Ms. Charner Rodger-Register, Project Manger

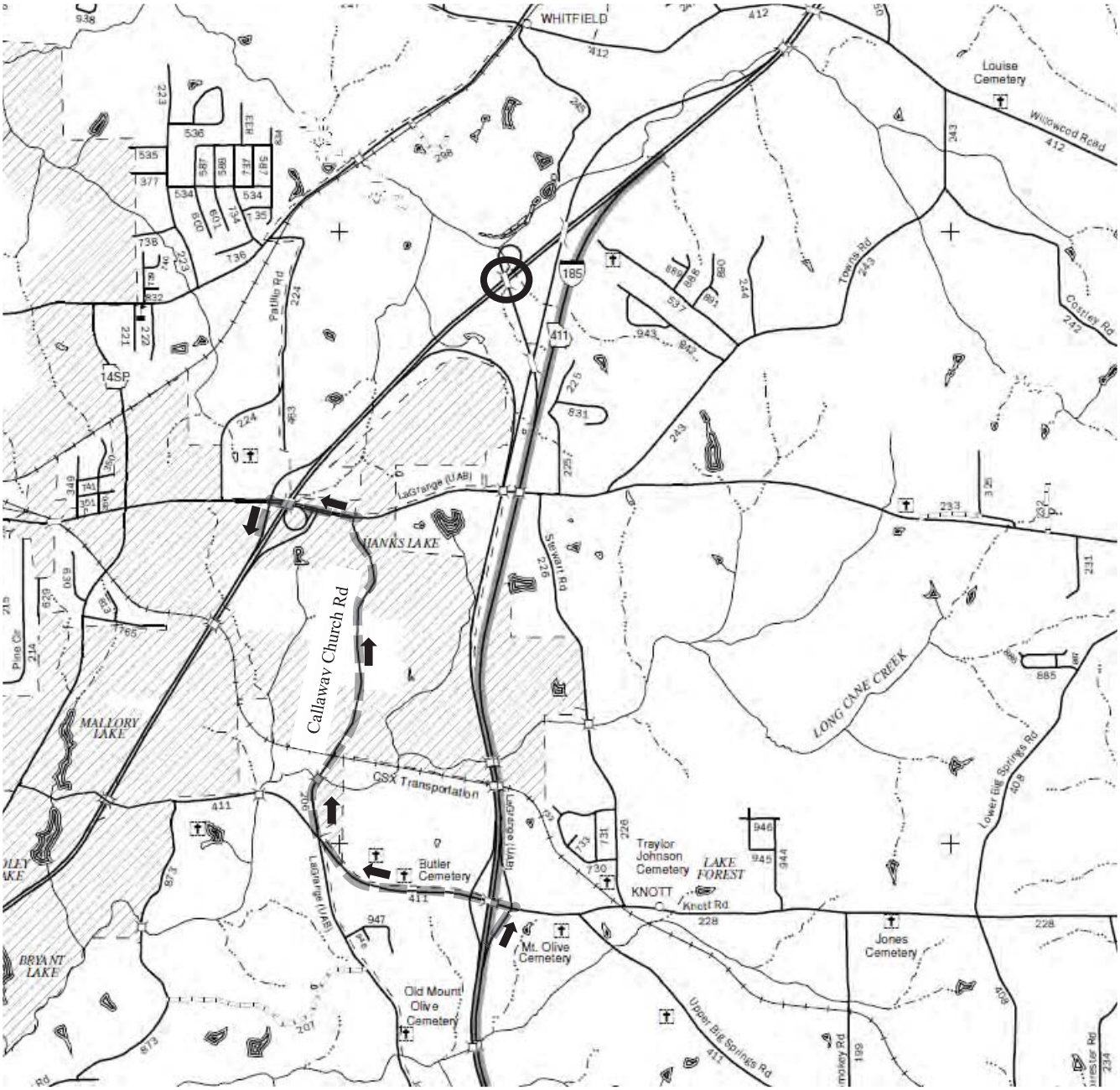
1280 WINCHESTER PARKWAY • SUITE 240 • ATLANTA, (SMYRNA) GEORGIA 30080
TELEPHONE: 770/436-5070 • FAX: 770/436-5410
EMAIL: RAJU.SHAH@RKSHAH.COM • WEBSITE: WWW.RKSHAH.COM

DETOUR MAPS

PI 0003246

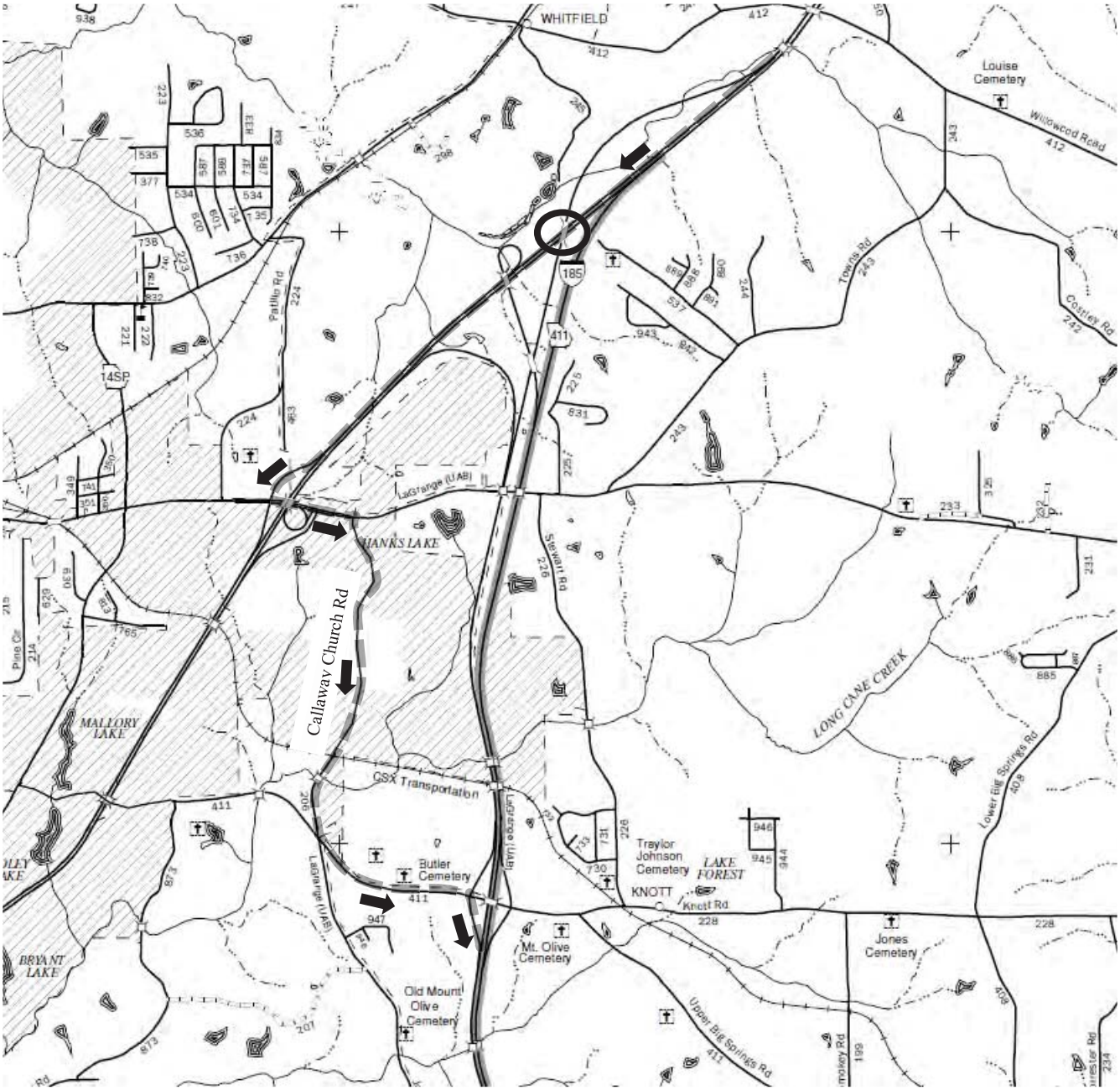
TROUP COUNTY

DETOUR ROUTE MAP



N N.T.S.	**Detour Route for Bridge Jacking** I-185 NB to I-85 SB Interchange Ramp Bridge MSL00-0003-00(246) PI # 0003246 TROUP COUNTY, GA	Source: GDOT

DETOUR ROUTE MAP

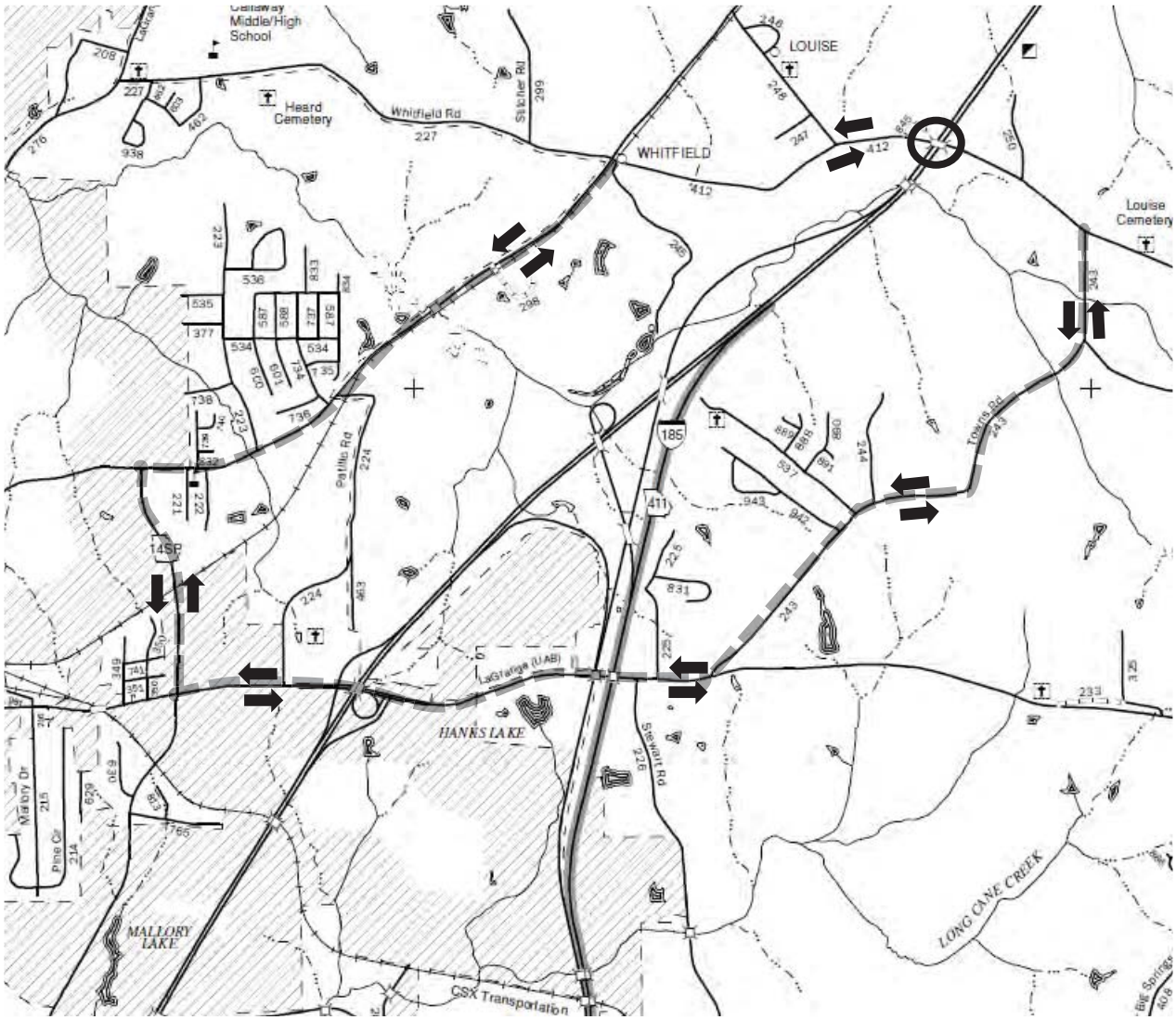


N N.T.S.	**Detour Route for Bridge Jacking** I-85 SB to I-185 SB Interchange Ramp Bridge MSL00-0003-00(246) PI # 0003246 TROUP COUNTY, GA	Source: GDOT

PI 0012800

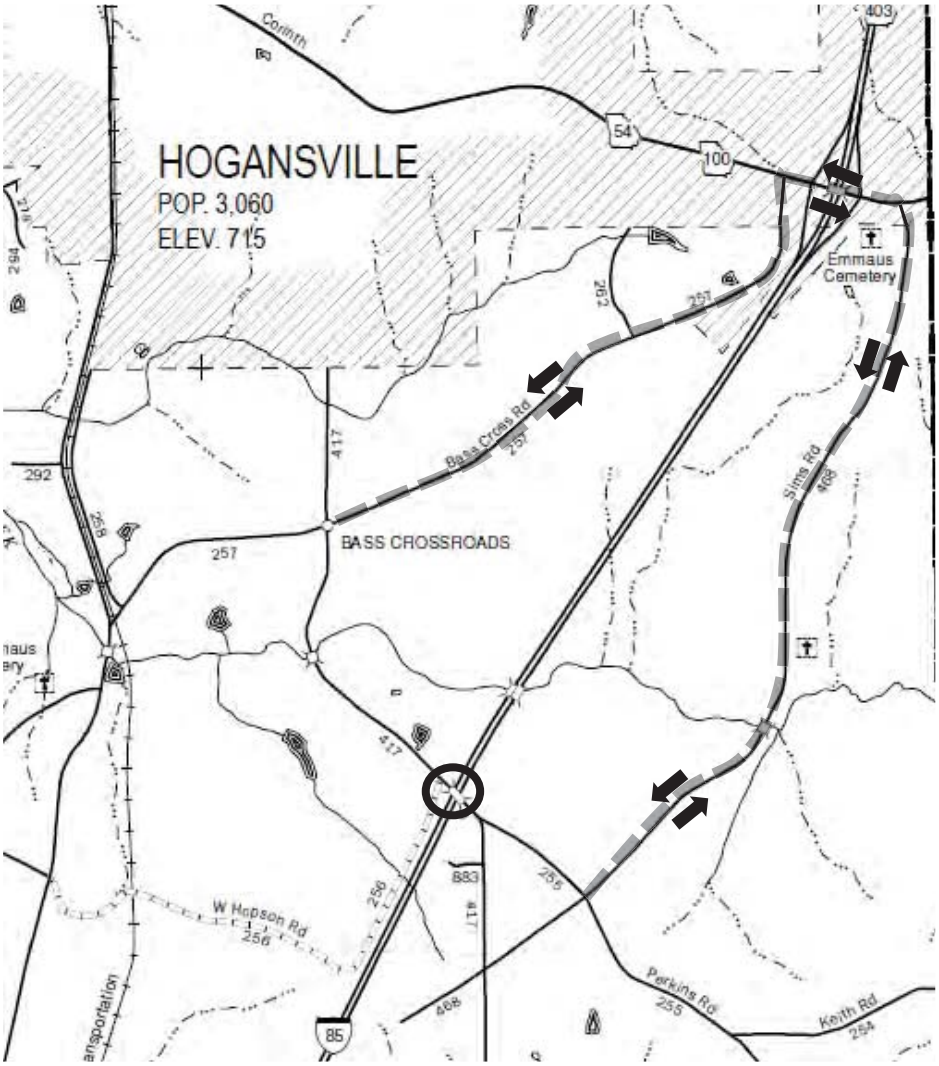
TROUP COUNTY

DETOUR ROUTE MAP



N N.T.S.	**Detour Route for Bridge Jacking** Wildwood Road/Hines Road Bridge MSL00-0003-00(246) PI # 0012800 TROUP COUNTY, GA	Source: GDOT

DETOUR ROUTE MAP

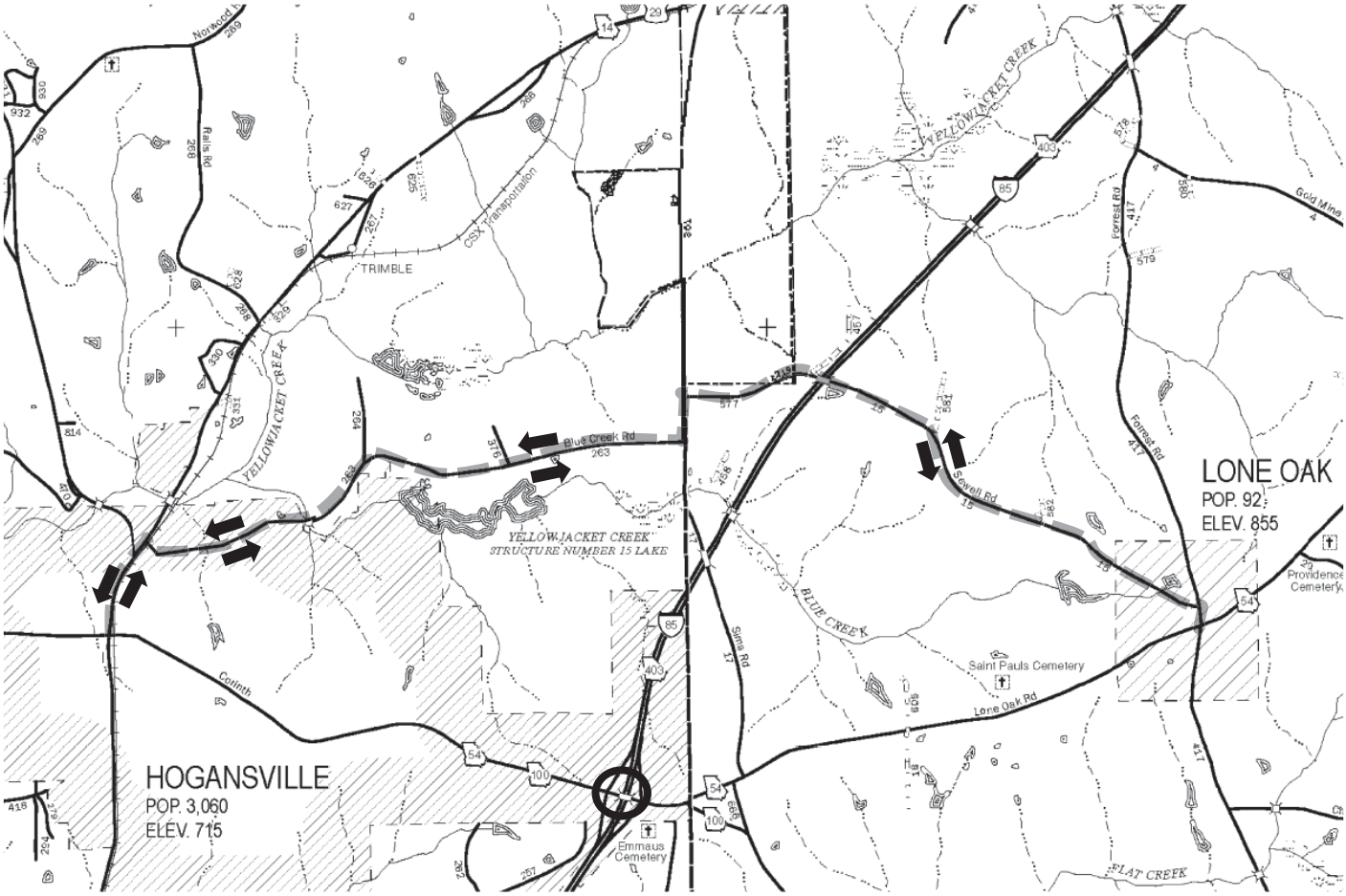


N N.T.S.	**Detour Route for Bridge Jacking** Mountville-Hogansville Road Bridge MSL00-0003-00(246) PI # 0012800 TROUP COUNTY, GA	Source: GDOT

PI 0012801

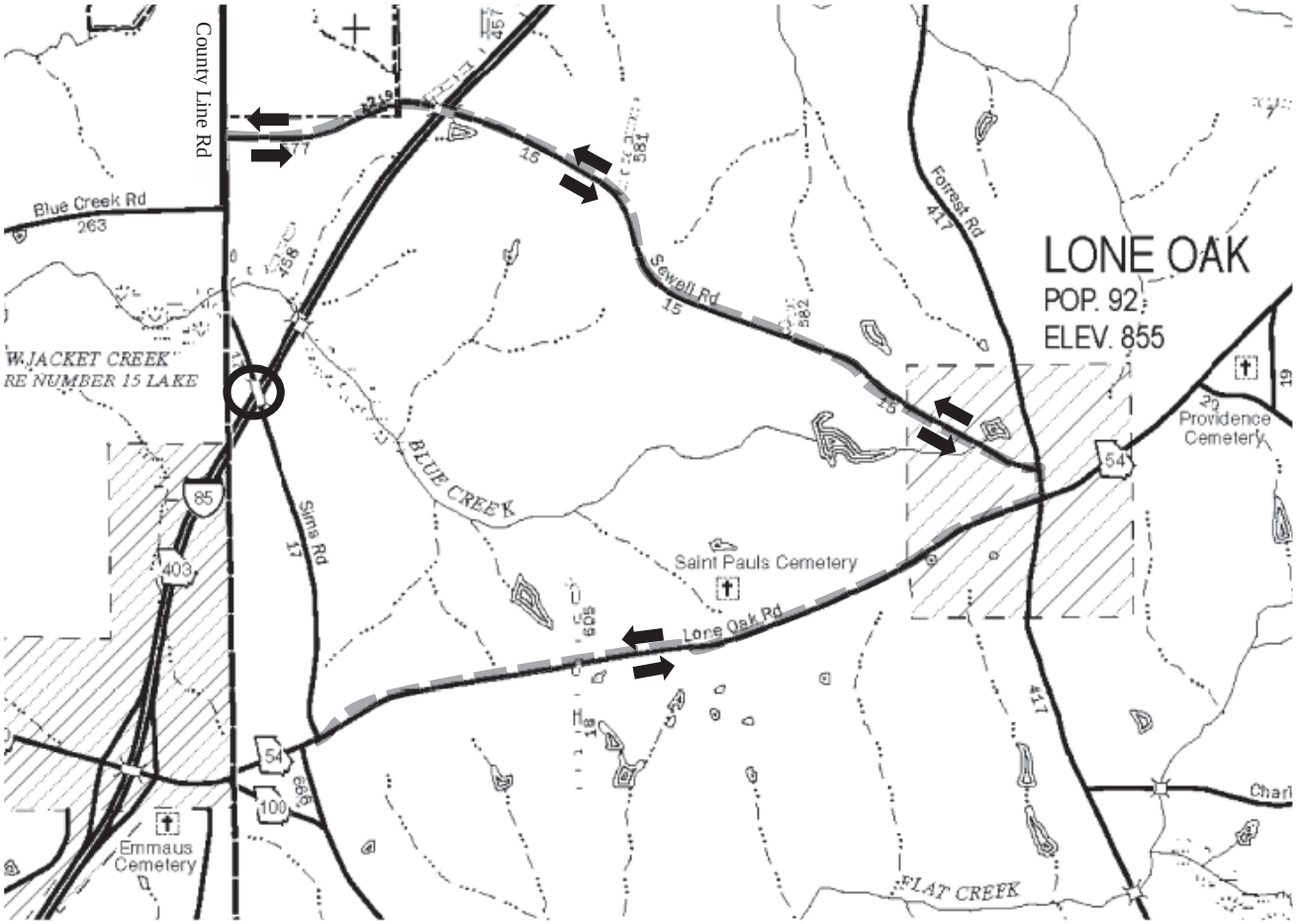
TROUP & MERIWETHER

DETOUR ROUTE MAP



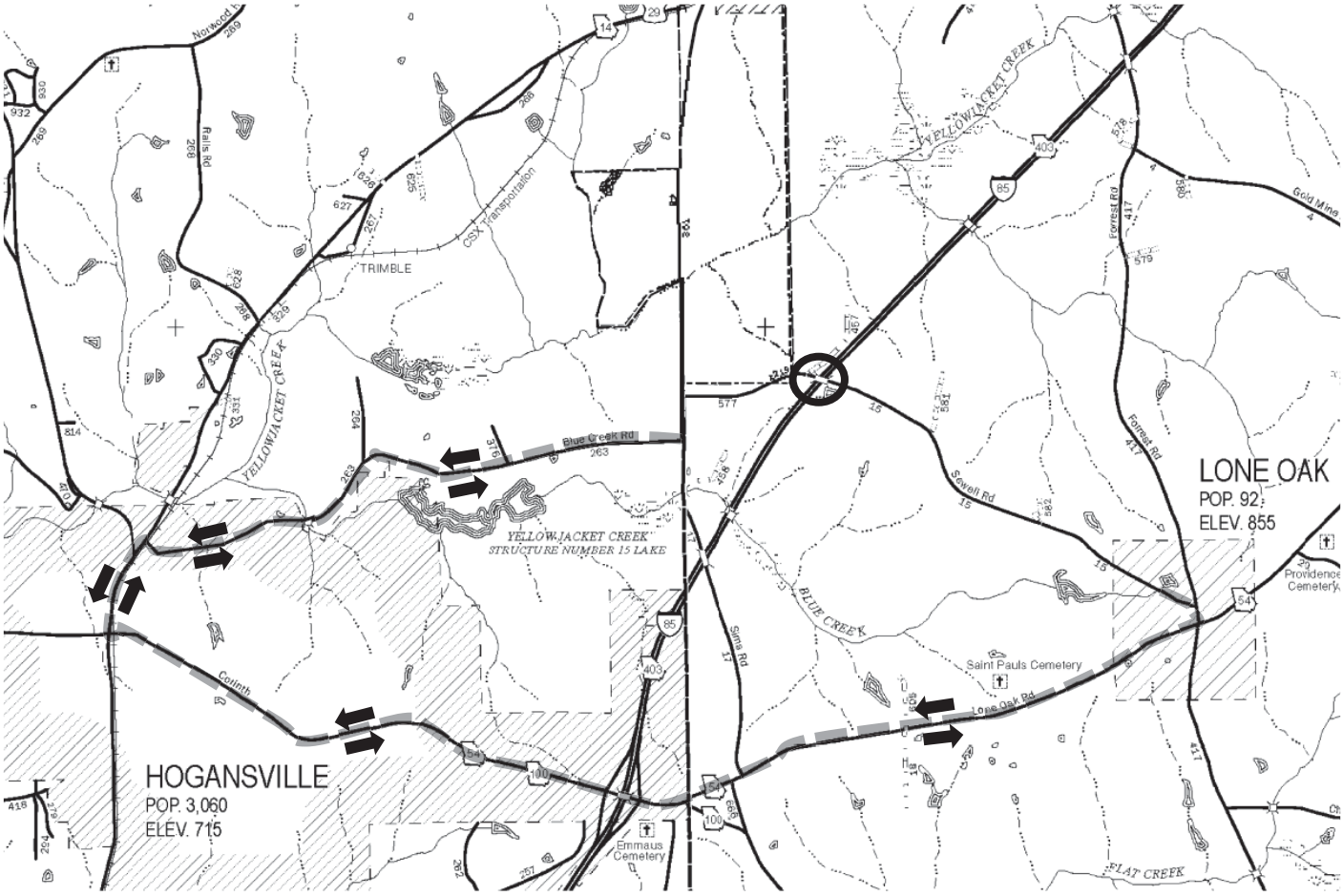
N N.T.S.	**Detour Route for Bridge Jacking** S.R. 54/S.R. 100/Lone Oak Road Bridge MSL00-0003-00(246) PI # 0012801 TROUP / MERIWETHER COUNTIES, GA	Source: GDOT

DETOUR ROUTE MAP



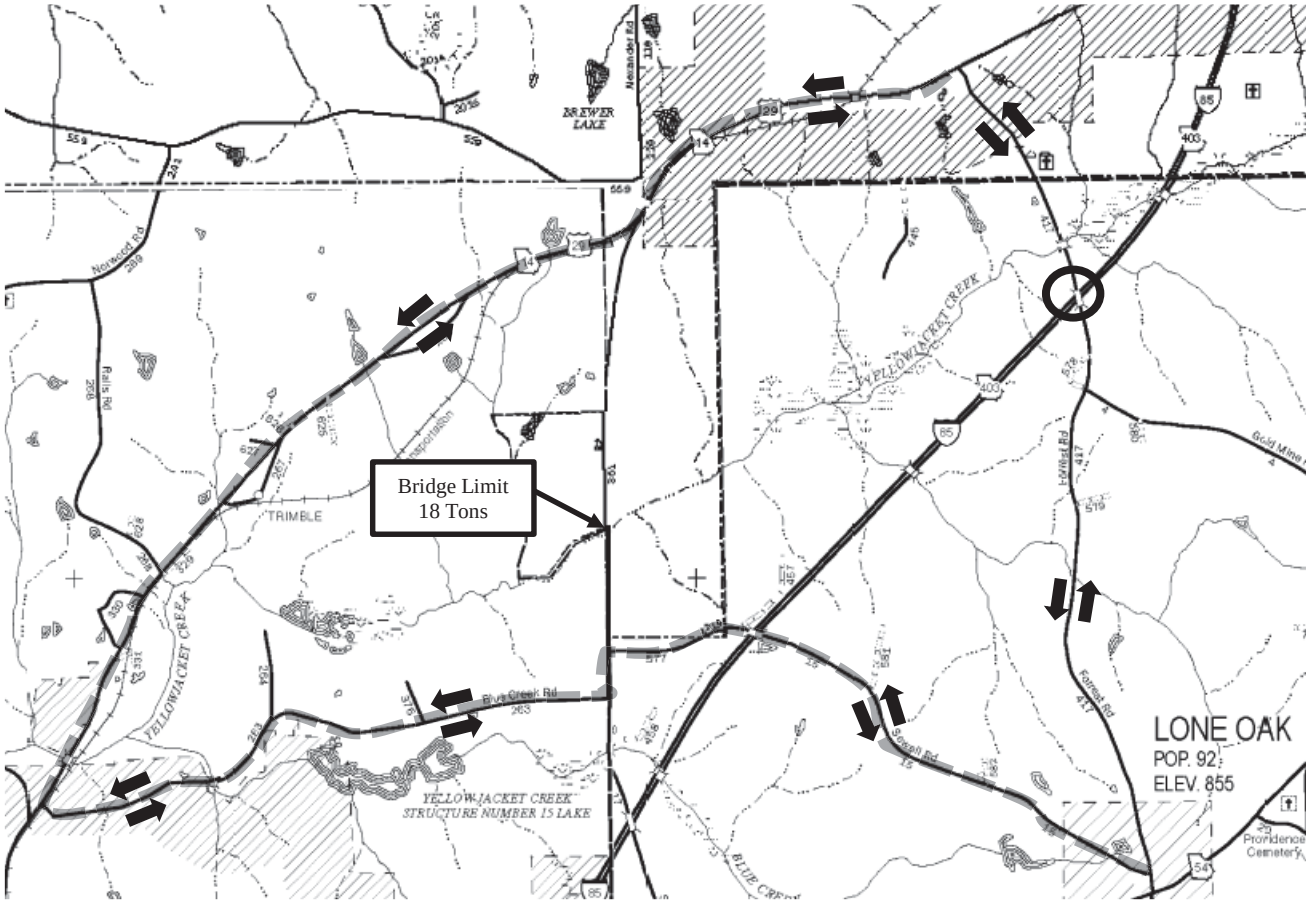
N N.T.S.	**Detour Route for Bridge Jacking** Sims Road/County Line Road Bridge MSL00-0003-00(246) PI # 0012801 TROUP / MERIWETHER COUNTIES, GA	Source: GDOT

DETOUR ROUTE MAP



N N.T.S.	**Detour Route for Bridge Jacking** Sewell Road Bridge MSL00-0003-00(246) PI # 0012801 TROUP / MERIWETHER COUNTIES, GA	Source: GDOT

DETOUR ROUTE MAP



N N.T.S.	**Detour Route for Bridge Jacking** Forrest Road Bridge MSL00-0003-00(246) PI # 0012801 TROUP / MERIWETHER COUNTIES, GA	Source: GDOT

ATTACHMENT 10

BRIDGE INVENTORY REPORTS

PI 0003246

TROUP COUNTY

Processed Date:6/11/2014

Parameters: Bridge Serial Num

Bridge Inventory Data Listing

Structure ID:285-0027-0 **Troup** **SUFF. RATING:** 96.63

Location & Geography

Structure ID:	285-0027-0
200 Brdge Information:	06
*6A Feature Int:	I-85 (SR 403)
*6B Critical Bridge:	0
*7A Route No Carried:	SR00029
*7B Facility Carried:	US 29 CONN./ SR 29
9 Location:	2 MI E OF LAGRANGE
2 Dot District:	3
207 Year Photo:	2013
*91 Inspection Frequency:	24 Date: 12/11/2013
92A Fract Crit Insp Freq:	0 Date: 02/01/1901
92B Underwater Insp Freq:	0 Date: 02/01/1901
92C Other Spc. Insp Freq:	0 Date: 02/01/1901
* 4 Place Code:	00000
*5 Inventory Route(O/U):	1
Type:	2
Designation:	7
Number:	00029
Direction:	0
*16 Latitude:	33 - 03.4778 HMMS Prefix:RP
*17 Longtitude:	84 - 57.0183 HMMS Suffix:017
	MP: 0.66
98 Border Bridge:	000 % Shared:00
99 ID Number:	000000000000000
*100 STRAHNET:	1
12 Base Highway Network:	1
13A LRS Inventory Route:	2856403017
13B Sub Inventory Route:	1
*101 Parallel Structure:	N
*102 Direction of Traffic:	1
*264 Road Inventory Mile Post:	000.65
*208 Inspection Area:	03 Initials: WBP
Engineer's Initials:	JTB
* Location ID No:	285-00029C-000.65N

*104 Highway System:	1
*26 Functional Classification:	09
*204 Federal Route Type:	F No: 00171
105 Federal Lands Highway:	0
*110 Truck Route:	0
206 School Bus Route:	1
217 Benchmark Elevation:	0000.00
218 Datum:	0
*19 Bypass Length:	04
*20 Toll:	3
*21 Maintanance:	01
*22 Owner:	01
*31 Design Load:	6
37 Historical Significance:	5
205 Congressional District:	03
27 Year Constructed:	1977
106 Year Reconsrtucted:	0000
33 Bridge Median:	0
34 Skew:	20
35 Structure Flared:	0
38 Navigation Control:	N
213 Special Steel Design:	0
267 Type of Paint:	5
*42 Type of Service On:	1
Type of Service Under:	1
214 Movable Bridge:	0
203 Type Bridge:	O - O - M - O
259 Pile Encasement	3
*43 Structure Type Main:	3 02
45 No.Spans Main:	005
44 Structure Type Appr:	0 00
46 No Spans Appr:	0000
226 Bridge Curve Horz	0 Vert: 0.00
111 Pier Protection	0
107 Deck Structure Type:	1
108 Wearing Structure Type:	1
Membrane Type:	0
Deck Protection:	8

Signs & Attachments

225 Expansion Joint Type:	02
242 Deck Drains:	0
243 Parapet Location:	0
Height:	0.00
Width:	0.00
238 Curb Height:	0
Curb Material:	0
239 Handrail	9 9
*240 Median Barrier Rail:	0
241 Bridge Median Height:	0
* Bridge Median Width:	0
230 Guardrail Loc. Dir. Rear:	6
Fwrd:	5
Oppo. Dir. Rear:	0
Oppo. Fwrd:	0
244 Aproach Slab	3
224 Retaining Wall:	0
233Posted Speed Limit:	25
236 Warning Sign:	0.00
234 Delineator:	1.00
235 Hazard Boards:	0
237 Utilities Gas:	00
Water:	00
Electric:	00
Telephone:	00
Sewer:	00
247 Lighting Street:	0
Navigation:	0
Aerial:	0
*248 County Continuity No.:	00

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Bridge Inventory Data Listing

Structure ID:285-0027-0

Programming Data

201 Project No.	I-85-1 (33) 12 CT.2
202 Plans Available:	4
249 Prop Proj No:	000000000000000000000000
250 Approval Status:	0000
251 PI Number:	0000000
252 Contract Date:	02/01/1901
260 Seismic No:	00000
75 Type Work:	00 0
94 Bridge Imp. Cost:	$1,125
95 Roadway Imp. Cost:	$113
96 Total Imp Cost:	$1688
76 Imp Length:	000000
97 Imp Year:	2013
114 Furure ADT:	000735 Year:2032

Hydralic Data

215Waterway Data:	
High Water Elev:	0000.0 Year:1900
Flood Elev:	0000.0 Freq:00
Avg Streambed Elev:	0000.0
Drainage Area:	00000
Area of Opening:	000000
113 Scour Critical	N
216 Water Depth:	00.0 Br.Height:00.0
222 Slope Protection:	4
221Spur Dikes Rear	0 Fwd:0
219 Fender System	0
220 Dolphin:	0
223 Culvert Cover:	000
Type:	0
No. Barrels:	0
Width:	0.00 Height:0.00
Length:	0 Apron:0
*265 U/W Insp. Area	0 Diver:ZZZ
*Location ID No:	285-00029C-000.65N

Measurements:

*29 ADT	000490 Year:2012
109 %Trucks:	1
* 28 Lanes On:	01 Under:05
210 No. Tracks On:	00 Under:00
* 48 Max. Span Length	0108
* 49 Structure Length:	396
51 Br. Rwdy. Width	48.00
52 Deck Width:	51.60
* 47 Tot. Horiz. Cl:	48
50 Curb / Sidewalk Width	0.00 / 0.00
32 Approach Rdwy. Width	038
*229 Shoulder Width:	
Rear Lt:	4.00 Type:2 Rt:10.00
Fwd. Lt:	5.50 Type:1 Rt:6.80
Pavement Width:	
Rear:	24.00 Type: 2
	36.40 Type: 1
Intersaction Rear:	0 Fwd: 0
36Safety Features Br. Rail:	1
Transition:	2
App. G. Rail:	2
App. Rail End:	1
53 Minimum Cl. Over:	99' 99 "
Under: H	16' 09"
*228 Minimum Vertical Cl	
Act. Odm Dir.:	99' 99"
Oppo. Dir:	99' 99"
Posted Odm. Dir:	00' 00"
Oppo. Dir:	00' 00"
55 Lateral Undercl. Rt:	H 30.50
56 Lateral Undercl. Lt:	30.30
*10 Max Min Vert Cl:	99' 99" Dir:0
39 Nav Vert Cl:	000 Horiz:0000
116 Nav Vert Cl Closed:	000
245 Deck Thickness Main	8.30
Deck Thick Approach:	0.00
246 Overlay Thickness:	0.00
212 Year Last Painted:	Sup:1997 Sub:0000

65 Inventory Rating Mathod:	1
63 Operating Rating Method:	1
66 Inventory Type:	2 Rating: 32
64 Operating Type:	2 Rating: 53
231Calculated Loads:	
H-Modified:	21 0
HS-Modified:	30 0
Type 3:	33 0
Type 3s2:	40 0
Timber:	37 0
Piggyback:	40 0
261 H Inventory Rating:	34
262 H Operating Rating	58
67 Structural Evaluation:	7
58 Deck Condition:	7
59 Superstructure Condition:	7
* 227 Collision Damage:	0
60A Substructure Condition:	7
60B Scour Condition:	N
60C Underwater Condition	N
71 Waterway Adequacy:	N
61 Channel Protection Cond.:	N
68 Deck Geometry:	9
69 UnderClr. Horz/Vert:	7
72 Appr. Alignment:	8
62 Culvert:	N

Posting Data

70 Bridge Posting Required	5
41 Struct Open, Posted, CL:	A
* 103 Temporary Structure:	0
232 Posted Loads	
H-Modified:	00
HS-Modified:	00
Type 3:	00
Type 3s2:	00
Timber:	00
Piggyback	00
253 Notification Date:	02/01/1901
258 Fed Notify Date:	02/01/1901

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BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0085-0 **Troup** SUFF. RATING 79.97

Location & Geography

*	Structure I.D.No:	285-0085-0
	200 Bridge Information	06
*	6A Feature Int:	I-85 (SR 403)
*	6B Critical Bridge:	0
*	7A Route Number Carried:	SR00411
*	7B Facility Carried:	I-185 SBL
*	9 Location:	2 MI NE OF LAGRANGE
	2 DOT District:	3
	207 Year Photo:	2009
*	91 Inspection Frequency:	24 Date: 12/09/2009
	92A Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B Underwater Insp Freq:	00 Date: 02/01/1901
	92C Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4 Place Code:	00000
*	5 Inventory Route (O/U):	1
	Type:	1
	Designation:	1
	Number:	00185
	Direction:	0
*	16 Latitude: 33-03.6965	MMS Prefix: SR
*	17 Longitude: 84-56.7094	MMS Suffix: 00 MP: 48.83
	98 Border Bridge: 000	%Shared: 00
	99 ID Number:	000000000000000
*	100 STRAHNET:	1
	12 Base Highway Network:	1
	13A LRS Inventory Route:	2851041100
	13B Sub Inventory Route:	0
*	101 Parallel Structure:	N
*	102 Direction of Traffic:	1
*	264 Road Inventory Mile Post:	000.00
*	208 Inspection Area: 03	Initials: WBP
	Engineer's Initial:	sgm

* Location I.D. No.: 285-00411D-048.83N

*	104 Highway System:	1	
*	26 Functional Classification:	01	
*	204 Federal Route Type:	I	No.: 01851
	105 Federal Lands Highway:	0	
*	110 Truck Route:	1	
	206 School Bus Route:	1	
	217 Benchmark Elevation:	0000.00	
	218 Datum:	0	
*	19 Bypass Length:	03	
*	20 Toll:	3	
*	21 Maintenance:	01	
*	22 Owner:	01	
*	31 Design Load:	6	
	37 Historical Significance:	5	
	205 Congressional District:	03	
	27 Year Constructed:	1977	
	106 Year Reconstructed:	0000	
	33 Bridge Median:	0	
	34 Skew:	53	
	35 Structure Flared:	0	
	38 Navigation Control:	N	
	213 Special Steel Design:	0	
	267 Type of Paint:	5	
*	42 Type of Service on:	1	
	Under:	1	
	214 Movable Bridge:	0	
	203 Type Bridge:	O-O-M-O	
	259 Pile Encasement:	3	
*	43 Structure Type Main:	3 02	
	45 No. Spans Main:	004	
	44 Structure Type Appr:	0 00	
	46 No. Spans Appr:	0000	
	226 Bridge Curve Horz:	0	Vert: 0
	111 Pier Protection:	0	
	107 Deck Structure Type:	1	
	108 Wearing Surface Type:	1	
	Membrance:	0	
	Protection:	8	

Signs & Attachments

	225 Expansion Joint Type:	15	
	242 Deck Drains:	0	
	243 Parapet Location:	0	
	Height:		0.00
	Width:		0.00
	238 Curb:		0.00 0
	239 Handrail:	9	9
*	240 Median Barrier Rail:	0	
	241 Bridge Median Height:		0.00
	Width:		0.00
*	230 Guardrail Loc Dir Rear:	6	
	Fwrd:	0	
	Oppo Dir Rear:	0	
	Fwrd:	0	
	244 Approach Slab:	3	
	224 Retaining Wall:	0	
	233 Posted Speed Limit:	70	
	236 Warning Sign:	0	
	234 Delineator:	1	
	235 Hazard Boards:	0	
	237 Utilities Gas:	00	
	Water:	00	
	Electric:	00	
	Telephone:	00	
	Sewer:	00	
	247 Lighting Street:	0	
	Naviagtion:	0	
	Aerial:	0	
*	248 County Continuity No.:	00	

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0085-0 **Troup** SUFF. RATING 79.97

Programming Data

201 Project No.: I-85-1 (33) 12 CT.2
202 Plans Available: 4
249 Prop. Proj. No. MSL-0003-00(246)
250 Approval Status: 0000
251 P.I. No.: 0003246
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 025485 Year: 2027

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000000
113 Scour Critical: N
216 Water Depth: 00.0 Br. Height: 00.0
222 Slope Protection: 4
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 285-00411D-048.83N

Measurements

* 29 ADT: 016990 Year: 2007
109 % Trucks: 0
* 28 Lanes On: 02 Under: 04
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0146
* 49 Structure Length: 547
51 Br. Rwdy. Width: 40.00
52 Deck Width: 43.30
* 47 Tot. Horz. Cl: 40.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 037
* 229 Shoulder Width:
Rear Lt: 10.00 Type: 2 Rt: 5.50
Fwrd Lt: 9.80 Type: 1 Rt: 4.30
Pavement Width:
Rear: 22.00 Type: 2
Fwrd: 23.20 Type: 1
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 2
App. Rail End: 1
53 Minimum Cl.Over: 99 ' 99 "
Under: H 18 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: H 30.00
56 Lateral Undercl. Lt: 30.10
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.60
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 1997 Sub: 0000

Ratings

65 Inventory Rating Method: 1
63 Inventory Rating Method: 1
66 Inventory Type: 2 Rating: 24
64 Operating Type: 2 Rating: 40
231 Calculated Loads
H-Modified: 21 0
HS-Modified: 30 0
Type 3: 33 0
Type 3s2: 40 0
Timber: 37 0
Piggyback: 40 0
261 H Inventory Rating: 41
262 H Operating Rating: 68
67 Structural Evaluation: 5
58 Deck Condition: 7
59 Superstructure Condition: 8
* 227 Collision Damage: 0
60A Substructure Condition: 7
60B Scour Condition: N
60C Underwater Condition: N
71 Waterway Adequacy: N
61 Channel Protection Cond: N
68 Deck Geometry: 7
69 UnderClr. Horz/Vert: 9
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

GEORGIA DEPARTMENT OF TRANSPORTATION

X-Vertical Clearance Report

District: 3
Bridge Inspector: Bryon Patterson
Location ID: 285-00411D-048.83N
Structure ID: 285-0085-0

Inspection Date: 12/9/2009
Over: I-85 (SR 403)
County: Troup
Road Name: I-185 SBL

Inspection Area: 03

Skew: 53

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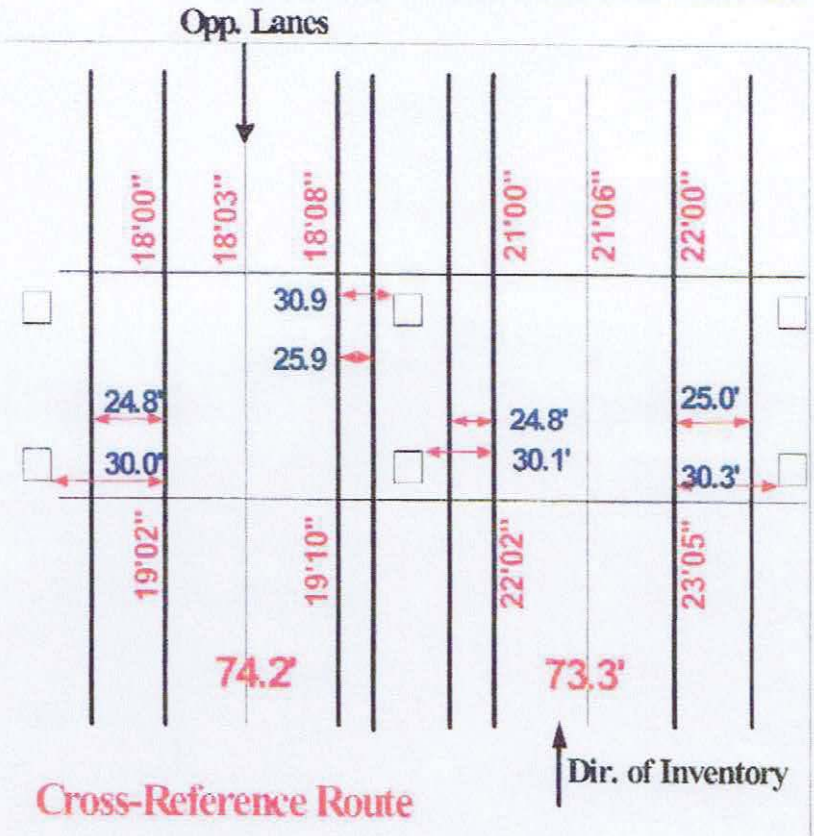
4 LANE **VERTICAL CLEARANCE**

Show & Code Actual Measured Clearances.



XLocationID 285-00403D-020.10N
XRef ID: 285-0085-0-A

Min Clearance Over:	99-99	**Min Clearance Under:**	18-00	**Clearance Type:**	H
Act Min Vert. Odom:	21-00	**Post Min Vert. Odom:**	00-00		
Act Min Vert. Opp:	18-00	**Post Min Vert. Opp:**	00-00		
Max Min Vert. Clear:	21-06	**Direction:**	North		

Lat Under Cl Right: 30.00 **Left:** 30.10 **Lateral Type:** 9

Rating-Under Cl Horz/Vert: 9 **Total Horizontal Clearance (ft):** 74.20

PI 0012800

TROUP COUNTY

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0071-0 **Meriwether** SUFF. RATING 85.00

Location & Geography

*		Structure I.D.No:	199-0071-0
	200	Bridge Information	07
*	6A	Feature Int:	BLUE CREEK
*	6B	Critical Bridge:	0
*	7A	Route Number Carried:	SR00403
*	7B	Facility Carried:	I-85
*	9	Location:	2.5 MI W OF LONE OAK
	2	DOT District:	3
	207	Year Photo:	2012
*	91	Inspection Frequency:	24 Date: 04/17/2012
	92A	Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B	Underwater Insp Freq:	00 Date: 02/01/1901
	92C	Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4	Place Code:	00000
*	5	Inventory Route (O/U):	1
		Type:	1
		Designation:	1
		Number:	00085
		Direction:	0
*	16	Latitude: 33-10.8785	MMS Prefix: SR
*	17	Longitude: 84-51.4751	MMS Suffix: 00 MP: 29.95
	98	Border Bridge:	000 %Shared: 00
	99	ID Number:	000000000000000
*	100	STRAHNET:	1
	12	Base Highway Network:	1
	13A	LRS Inventory Route:	1991040300
	13B	Sub Inventory Route:	0
*	101	Parallel Structure:	N
*	102	Direction of Traffic:	2
*	264	Road Inventory Mile Post:	029.95
*	208	Inspection Area:	03 Initials: WBP
		Engineer's Initial:	eep

* Location I.D. No.: 199-00403D-029.95N

*	104	Highway System:	1
*	26	Functional Classification:	01
*	204	Federal Route Type:	I No.: 00851
	105	Federal Lands Highway:	0
*	110	Truck Route:	1
	206	School Bus Route:	0
	217	Benchmark Elevation:	0000.00
	218	Datum:	0
*	19	Bypass Length:	09
*	20	Toll:	3
*	21	Maintenance:	01
*	22	Owner:	01
*	31	Design Load:	6
	37	Historical Significance:	5
	205	Congressional District:	03
	27	Year Constructed:	1977
	106	Year Reconstructed:	0000
	33	Bridge Median:	1
	34	Skew:	30
	35	Structure Flared:	0
	38	Navigation Control:	0
	213	Special Steel Design:	0
	267	Type of Paint:	0
*	42	Type of Service on:	1
		Under:	5
	214	Movable Bridge:	0
	203	Type Bridge:	Q
	259	Pile Encasement:	3
*	43	Structure Type Main:	1 19
	45	No. Spans Main:	002
	44	Structure Type Appr:	0 00
	46	No. Spans Appr:	0000
	226	Bridge Curve Horz:	0 Vert: 0
	111	Pier Protection:	0
	107	Deck Structure Type:	N
	108	Wearing Surface Type:	N
		Membrance:	N
		Protection:	N

Signs & Attachments

	225	Expansion Joint Type:	00	
	242	Deck Drains:	0	
	243	Parapet Location:	0	
		Height:	0.00	
		Width:	0.00	
	238	Curb:	0.00	0
	239	Handrail:	0	0
*	240	Median Barrier Rail:	0	
	241	Bridge Median Height:	0.00	
		Width:	0.00	
*	230	Guardrail Loc Dir Rear:	0	
		Fwrd:	0	
		Oppo Dir Rear:	0	
		Fwrd:	0	
	244	Approach Slab:	0	
	224	Retaining Wall:	0	
	233	Posted Speed Limit:	70	
	236	Warning Sign:	0	
	234	Delineator:	0	
	235	Hazard Boards:	0	
	237	Utilities Gas:	00	
		Water:	00	
		Electric:	00	
		Telephone:	00	
		Sewer:	00	
	247	Lighting Street:	0	
		Naviagtion:	0	
		Aerial:	0	
*	248	County Continuity No.:	00	

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0071-0 **Meriwether** SUFF. RATING 85.00

Programming Data

201 Project No.: I-85-1 (45) 33
202 Plans Available: 1
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 066420 Year: 3930

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000162
113 Scour Critical: 8
216 Water Depth: 02.3 Br. Height: 08.9
222 Slope Protection: 0
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 9
Type: 1
No. Barrels: 2
Width: 9.00 Height: 9.00
Length: 276 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 199-00403D-029.95N

Measurements

* 29 ADT: 044280 Year: 3910
109 % Trucks: 17
* 28 Lanes On: 04 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0010
* 49 Structure Length: 22
51 Br. Rwdy. Width: 0.00
52 Deck Width: 0.00
* 47 Tot. Horz. Cl: 60.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 076
* 229 Shoulder Width:
Rear Lt: 4.00 Type: 1 Rt: 10.00
Fwrd Lt: 4.00 Type: 1 Rt: 10.00
Pavement Width:
Rear: 24.00 Type: 1
Fwrd: 24.00 Type: 1
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: N
Transition: N
App. G. Rail: N
App. Rail End: N
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: N 0.00
56 Lateral Undercl. Lt: 0.00
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 0.00
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 0000 Sub: 0000

Ratings

65 Inventory Rating Method: 0
63 Inventory Rating Method: 0
66 Inventory Type: 2 Rating: 36
64 Operating Type: 2 Rating: 61
231 Calculated Loads
H-Modified: 00 0
HS-Modified: 00 0
Type 3: 00 0
Type 3s2: 00 0
Timber: 00 0
Piggyback: 00 0
261 H Inventory Rating: 20
262 H Operating Rating: 34
67 Structural Evaluation: 7
58 Deck Condition: N
59 Superstructure Condition: N
* 227 Collision Damage: 0
60A Substructure Condition: N
60B Scour Condition: 6
60C Underwater Condition: N
71 Waterway Adequacy: 8
61 Channel Protection Cond: 7
68 Deck Geometry: N
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 7
62 Culvert: 7

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0069-0 **Troup** SUFF. RATING 85.00

Location & Geography

*		Structure I.D.No:	285-0069-0
	200	Bridge Information	07
*	6A	Feature Int:	BEECH CREEK TRIB
*	6B	Critical Bridge:	0
*	7A	Route Number Carried:	SR00403
*	7B	Facility Carried:	I-85
*	9	Location:	5.5 MI S OF HOGANSVILLE
	2	DOT District:	3
	207	Year Photo:	2011
*	91	Inspection Frequency:	24 Date: 11/30/2011
	92A	Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B	Underwater Insp Freq:	00 Date: 02/01/1901
	92C	Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4	Place Code:	00000
*	5	Inventory Route (O/U):	1
		Type:	1
		Designation:	1
		Number:	00085
		Direction:	0
*	16	Latitude: 33-05.5602	MMS Prefix: SR
*	17	Longitude: 84-54.6392	MMS Suffix: 00 MP: 23.09
	98	Border Bridge:	000 %Shared: 00
	99	ID Number:	000000000000000
*	100	STRAHNET:	1
	12	Base Highway Network:	1
	13A	LRS Inventory Route:	2851040300
	13B	Sub Inventory Route:	0
*	101	Parallel Structure:	N
*	102	Direction of Traffic:	2
*	264	Road Inventory Mile Post:	021.59
*	208	Inspection Area:	03 Initials: WBP
		Engineer's Initial:	eep

* Location I.D. No.: 285-00403D-023.09N

*	104	Highway System:	1
*	26	Functional Classification:	01
*	204	Federal Route Type:	I No.: 00851
	105	Federal Lands Highway:	0
*	110	Truck Route:	1
	206	School Bus Route:	1
	217	Benchmark Elevation:	0000.00
	218	Datum:	0
*	19	Bypass Length:	16
*	20	Toll:	3
*	21	Maintenance:	01
*	22	Owner:	01
*	31	Design Load:	6
	37	Historical Significance:	5
	205	Congressional District:	03
	27	Year Constructed:	1977
	106	Year Reconstructed:	0000
	33	Bridge Median:	1
	34	Skew:	35
	35	Structure Flared:	0
	38	Navigation Control:	0
	213	Special Steel Design:	0
	267	Type of Paint:	0
*	42	Type of Service on:	1
		Under:	5
	214	Movable Bridge:	0
	203	Type Bridge:	Q
	259	Pile Encasement:	3
*	43	Structure Type Main:	1 19
	45	No. Spans Main:	002
	44	Structure Type Appr:	0 00
	46	No. Spans Appr:	0000
	226	Bridge Curve Horz:	0 Vert: 0
	111	Pier Protection:	0
	107	Deck Structure Type:	N
	108	Wearing Surface Type:	N
		Membrance:	N
		Protection:	N

Signs & Attachments

	225	Expansion Joint Type:	00
	242	Deck Drains:	0
	243	Parapet Location:	0
		Height:	0.00
		Width:	0.00
	238	Curb:	0.00 0
	239	Handrail:	0 0
*	240	Median Barrier Rail:	0
	241	Bridge Median Height:	0.00
		Width:	0.00
*	230	Guardrail Loc Dir Rear:	5
		Fwrd:	5
		Oppo Dir Rear:	5
		Fwrd:	5
	244	Approach Slab:	0
	224	Retaining Wall:	0
	233	Posted Speed Limit:	70
	236	Warning Sign:	0
	234	Delineator:	0
	235	Hazard Boards:	0
	237	Utilities Gas:	00
		Water:	00
		Electric:	00
		Telephone:	00
		Sewer:	00
	247	Lighting Street:	0
		Naviagtion:	0
		Aerial:	0
*	248	County Continuity No.:	00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0069-0 **Troup** SUFF. RATING 85.00

Programming Data

201 Project No.: I-85-1 (44) 20
202 Plans Available: 1
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 064425 Year: 2030

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000128
113 Scour Critical: 8
216 Water Depth: 02.1 Br. Height: 08.4
222 Slope Protection: 0
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 16
Type: 1
No. Barrels: 2
Width: 8.00 Height: 8.00
Length: 355 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 285-00403D-023.09N

Measurements

* 29 ADT: 042950 Year: 2010
109 % Trucks: 0
* 28 Lanes On: 04 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0009
* 49 Structure Length: 21
51 Br. Rwdy. Width: 0.00
52 Deck Width: 0.00
* 47 Tot. Horz. Cl: 48.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 076
* 229 Shoulder Width:
Rear Lt: 4.00 Type: 1 Rt: 10.00
Fwrd Lt: 4.00 Type: 1 Rt: 10.00
Pavement Width:
Rear: 24.00 Type: 1
Fwrd: 24.00 Type: 1
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 1
App. G. Rail: 1
App. Rail End: 1
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: N 0.00
56 Lateral Undercl. Lt: 0.00
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 0.00
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 0000 Sub: 0000

Ratings

65 Inventory Rating Method: 0
63 Inventory Rating Method: 0
66 Inventory Type: 2 Rating: 99
64 Operating Type: 2 Rating: 99
231 Calculated Loads
H-Modified: 00 0
HS-Modified: 00 0
Type 3: 00 0
Type 3s2: 00 0
Timber: 00 0
Piggyback: 00 0
261 H Inventory Rating: 20
262 H Operating Rating: 34
67 Structural Evaluation: 6
58 Deck Condition: N
59 Superstructure Condition: N
* 227 Collision Damage: 0
60A Substructure Condition: N
60B Scour Condition: 6
60C Underwater Condition: N
71 Waterway Adequacy: 9
61 Channel Protection Cond: 8
68 Deck Geometry: N
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
62 Culvert: 6

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0093-0 **Troup** SUFF. RATING 91.12

Location & Geography

*	Structure I.D.No:	285-0093-0
200	Bridge Information	06
* 6A	Feature Int:	I-85 (SR 403)
* 6B	Critical Bridge:	0
* 7A	Route Number Carried:	CR00412
* 7B	Facility Carried:	WILDWOOD ROAD
* 9	Location:	4 MI NE OF LAGRANGE
2	DOT District:	3
207	Year Photo:	2009
* 91	Inspection Frequency:	24 Date: 12/09/2009
92A	Fract Crit Insp Freq:	00 Date: 02/01/1901
92B	Underwater Insp Freq:	00 Date: 02/01/1901
92C	Other Spc. Insp Freq:	00 Date: 02/01/1901
* 4	Place Code:	00000
* 5	Inventory Route (O/U):	1
	Type:	4
	Designation:	1
	Number:	01429
	Direction:	0
* 16	Latitude: 33-04.6565	MMS Prefix: 00
* 17	Longitude: 84-55.3787	MMS Suffix: 000 MP: 0.00
98	Border Bridge: 000	%Shared: 00
99	ID Number:	000000000000000
* 100	STRAHNET:	0
12	Base Highway Network:	1
13A	LRS Inventory Route:	2852041200
13B	Sub Inventory Route:	0
* 101	Parallel Structure:	N
* 102	Direction of Traffic:	2
* 264	Road Inventory Mile Post:	001.55
* 208	Inspection Area: 03	Initials: WBP
	Engineer's Initial:	sgm

* Location I.D. No.: 285-01429F-013.50E

* 104	Highway System:	0
* 26	Functional Classification:	07
* 204	Federal Route Type:	S No.: 01429
105	Federal Lands Highway:	0
* 110	Truck Route:	0
206	School Bus Route:	1
217	Benchmark Elevation:	0000.00
218	Datum:	0
* 19	Bypass Length:	12
* 20	Toll:	3
* 21	Maintenance:	01
* 22	Owner:	01
* 31	Design Load:	3
37	Historical Significance:	5
205	Congressional District:	03
27	Year Constructed:	1977
106	Year Reconstructed:	0000
33	Bridge Median:	0
34	Skew:	22
35	Structure Flared:	0
38	Navigation Control:	N
213	Special Steel Design:	0
267	Type of Paint:	5
* 42	Type of Service on:	1
	Under:	1
214	Movable Bridge:	0
203	Type Bridge:	O-O-M-O
259	Pile Encasement:	3
* 43	Structure Type Main:	4 02
45	No. Spans Main:	004
44	Structure Type Appr:	0 00
46	No. Spans Appr:	0000
226	Bridge Curve Horz:	0 Vert: 0
111	Pier Protection:	0
107	Deck Structure Type:	1
108	Wearing Surface Type:	1
	Membrance:	0
	Protection:	8

Signs & Attachments

225	Expansion Joint Type:	15	
242	Deck Drains:	0	
243	Parapet Location:	0	
	Height:		0.00
	Width:		0.00
238	Curb:		0.00 0
239	Handrail:	9	9
* 240	Median Barrier Rail:	0	
241	Bridge Median Height:		0.00
	Width:		0.00
* 230	Guardrail Loc Dir Rear:	6	
	Fwrd:	6	
	Oppo Dir Rear:	0	
	Fwrd:	0	
244	Approach Slab:	3	
224	Retaining Wall:	0	
233	Posted Speed Limit:	45	
236	Warning Sign:	0	
234	Delineator:	0	
235	Hazard Boards:	0	
237	Utilities Gas:	00	
	Water:	00	
	Electric:	00	
	Telephone:	22	
	Sewer:	00	
247	Lighting Street:	0	
	Naviagtion:	0	
	Aerial:	0	
* 248	County Continuity No.:	00	

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0093-0 **Troup** SUFF. RATING 91.12

Programming Data

201 Project No.: I-85-1 (33) 12 CT.2
202 Plans Available: 4
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 000915 Year: 2027

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000000
113 Scour Critical: N
216 Water Depth: 00.0 Br. Height: 00.0
222 Slope Protection: 4
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 285-01429F-013.50E

Measurements

* 29 ADT: 000610 Year: 2007
109 % Trucks: 0
* 28 Lanes On: 02 Under: 05
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0121
* 49 Structure Length: 340
51 Br. Rwdy. Width: 30.00
52 Deck Width: 33.30
* 47 Tot. Horz. Cl: 30.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 022
* 229 Shoulder Width:
Rear Lt: 8.00 Type: 8 Rt: 8.00
Fwrd Lt: 8.00 Type: 8 Rt: 8.00
Pavement Width:
Rear: 22.00 Type: 2
Fwrd: 22.00 Type: 2
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 2
App. Rail End: 2
53 Minimum Cl.Over: 99 ' 99 "
Under: H 16 ' 07 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: H 30.00
56 Lateral Undercl. Lt: 42.50
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.50
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 1997 Sub: 0000

Ratings

65 Inventory Rating Method: 1
63 Inventory Rating Method: 1
66 Inventory Type: 2 Rating: 28
64 Operating Type: 2 Rating: 47
231 Calculated Loads
H-Modified: 21 0
HS-Modified: 30 0
Type 3: 27 0
Type 3s2: 37 0
Timber: 34 0
Piggyback: 00 0
261 H Inventory Rating: 23
262 H Operating Rating: 39
67 Structural Evaluation: 6
58 Deck Condition: 7
59 Superstructure Condition: 6
* 227 Collision Damage: 1
60A Substructure Condition: 7
60B Scour Condition: N
60C Underwater Condition: N
71 Waterway Adequacy: N
61 Channel Protection Cond: N
68 Deck Geometry: 6
69 UnderClr. Horz/Vert: 6
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

GEORGIA DEPARTMENT OF TRANSPORTATION

X-Vertical Clearance Report

District: 3 **Inspection Date:** 12/9/2009 **Inspection Area:** 03
Bridge Inspector: Bryon Patterson **Over:** I-85 (SR 403)
Location ID: 285-01429F-013.50E **County:** Troup **Skew:** 22
Structure ID: 285-0093-0 **Road Name:** WILDWOOD ROAD

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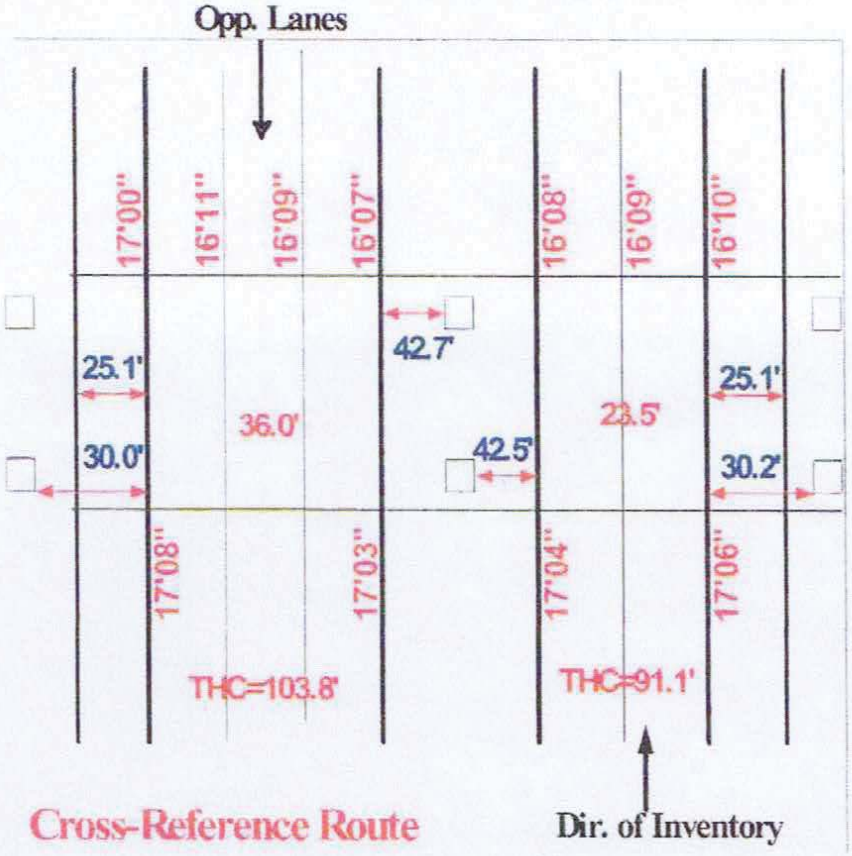
4 LANE **VERTICAL CLEARANCE**

Show & Code Actual Measured Clearances.



XLocationID **285-00403D-021.80N**
XRef ID: 285-0093-0-A

Min Clearance Over:	99-99	**Min Clearance Under:**	16-07	**Clearance Type:**	H
Act Min Vert. Odom:	16-08	**Post Min Vert. Odom:**	00-00		
Act Min Vert. Opp:	16-07	**Post Min Vert. Opp:**	00-00		
Max Min Vert. Clear:	16-11	**Direction:**	South		

Lat Under Cl Right: 30.00 **Left:** 42.50 **Lateral Type:** 6

Rating-Under Cl Horz/Vert: 6 **Total Horizontal Clearance (ft):** 99.90

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0070-0 **Troup** SUFF. RATING 84.97

Location & Geography

*	Structure I.D.No:	285-0070-0
	200 Bridge Information	01
*	6A Feature Int:	BEECH CREEK
*	6B Critical Bridge:	0
*	7A Route Number Carried:	SR00403
*	7B Facility Carried:	I-85 (NBL)
*	9 Location:	5 MI S OF HOGANSVILLE
	2 DOT District:	3
	207 Year Photo:	2009
*	91 Inspection Frequency:	24 Date: 11/16/2009
	92A Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B Underwater Insp Freq:	60 Date: 05/23/2011
	92C Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4 Place Code:	00000
*	5 Inventory Route (O/U):	1
	Type:	1
	Designation:	1
	Number:	00085
	Direction:	0
*	16 Latitude: 33-05.8320	MMS Prefix: SR
*	17 Longitude: 84-54.4827	MMS Suffix: 00 MP: 23.39
	98 Border Bridge: 000	%Shared: 00
	99 ID Number:	000000000000000
*	100 STRAHNET: 1	
	12 Base Highway Network:	1
	13A LRS Inventory Route:	2851040300
	13B Sub Inventory Route:	0
*	101 Parallel Structure:	R
*	102 Direction of Traffic:	1
*	264 Road Inventory Mile Post:	021.92
*	208 Inspection Area: 03	Initials: WBP
	Engineer's Initial: sgm	

* Location I.D. No.: 285-00403D-023.39N

*	104	Highway System:	1
*	26	Functional Classification:	01
*	204	Federal Route Type:	I No.: 00851
	105	Federal Lands Highway:	0
*	110	Truck Route:	1
	206	School Bus Route:	1
	217	Benchmark Elevation:	0000.00
	218	Datum:	0
*	19	Bypass Length:	01
*	20	Toll:	3
*	21	Maintenance:	01
*	22	Owner:	01
*	31	Design Load:	6
	37	Historical Significance:	5
	205	Congressional District:	03
	27	Year Constructed:	1977
	106	Year Reconstructed:	0000
	33	Bridge Median:	1
	34	Skew:	25
	35	Structure Flared:	0
	38	Navigation Control:	0
	213	Special Steel Design:	0
	267	Type of Paint:	5
*	42	Type of Service on:	1
		Under:	5
	214	Movable Bridge:	0
	203	Type Bridge:	O-N-O-O
	259	Pile Encasement:	2
*	43	Structure Type Main:	1 04
	45	No. Spans Main:	007
	44	Structure Type Appr:	0 00
	46	No. Spans Appr:	0000
	226	Bridge Curve Horz:	1 Vert: 0
	111	Pier Protection:	0
	107	Deck Structure Type:	1
	108	Wearing Surface Type:	1
		Membrance:	0
		Protection:	8

Signs & Attachments

	225	Expansion Joint Type:	15
	242	Deck Drains:	1
	243	Parapet Location:	3
		Height:	2.00
		Width:	1.00
	238	Curb:	0.00 0
	239	Handrail:	7 7
*	240	Median Barrier Rail:	0
	241	Bridge Median Height:	0.00
		Width:	0.00
*	230	Guardrail Loc Dir Rear:	3
		Fwrd:	0
		Oppo Dir Rear:	0
		Fwrd:	0
	244	Approach Slab:	3
	224	Retaining Wall:	0
	233	Posted Speed Limit:	70
	236	Warning Sign:	0
	234	Delineator:	1
	235	Hazard Boards:	0
	237	Utilities Gas:	00
		Water:	00
		Electric:	00
		Telephone:	00
		Sewer:	00
	247	Lighting Street:	0
		Naviagtion:	0
		Aerial:	0
*	248	County Continuity No.:	00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0070-0 **Troup** SUFF. RATING 84.97

Programming Data

201 Project No.: I-85-1 (44) 20
202 Plans Available: 4
249 Prop. Proj. No. MSL-0003-00(246)
250 Approval Status: 0000
251 P.I. No.: 0003246
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 064425 Year: 2030

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0686.4 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00039
Area Of Opening: 001300
113 Scour Critical: 5
216 Water Depth: 4.8 Br. Height: 16.7
222 Slope Protection: 1
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 1 Diver: WS

* Location I.D. No.: 285-00403D-023.39N

Measurements

* 29 ADT: 042950 Year: 2010
109 % Trucks: 0
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0040
* 49 Structure Length: 280
51 Br. Rwdy. Width: 42.00
52 Deck Width: 44.10
* 47 Tot. Horz. Cl: 42.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 038
* 229 Shoulder Width:
Rear Lt: 4.00 Type: 1 Rt: 10.00
Fwrd Lt: 4.00 Type: 1 Rt: 10.00
Pavement Width:
Rear: 24.00 Type: 1
Fwrd: 24.00 Type: 1
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 2
App. Rail End: 2
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: N 0.00
56 Lateral Undercl. Lt: 0.00
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.70
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 0000 Sub: 2000

Ratings

65 Inventory Rating Method: 1
63 Inventory Rating Method: 1
66 Inventory Type: 2 Rating: 27
64 Operating Type: 2 Rating: 46
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 28 0
Type 3s2: 40 0
Timber: 36 0
Piggyback: 40 0
261 H Inventory Rating: 20
262 H Operating Rating: 33
67 Structural Evaluation: 6
58 Deck Condition: 7
59 Superstructure Condition: 7
* 227 Collision Damage: 0
60A Substructure Condition: 6
60B Scour Condition: 7
60C Underwater Condition: 7
71 Waterway Adequacy: 8
61 Channel Protection Cond: 7
68 Deck Geometry: 8
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0071-0 **Troup** SUFF. RATING 84.97

Location & Geography

*	Structure I.D.No:	285-0071-0
	200 Bridge Information	01
*	6A Feature Int:	BEECH CREEK
*	6B Critical Bridge:	0
*	7A Route Number Carried:	SR00403
*	7B Facility Carried:	I-85 (SBL)
*	9 Location:	5 MI S OF HOGANSVILLE
	2 DOT District:	3
	207 Year Photo:	2009
*	91 Inspection Frequency:	24 Date: 11/16/2009
	92A Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B Underwater Insp Freq:	60 Date: 05/23/2011
	92C Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4 Place Code:	00000
*	5 Inventory Route (O/U):	1
	Type:	1
	Designation:	1
	Number:	00085
	Direction:	0
*	16 Latitude: 33-10.8699	MMS Prefix: SR
*	17 Longitude: 84-51.5107	MMS Suffix: 00 MP: 23.40
	98 Border Bridge: 000	%Shared: 00
	99 ID Number: 000000000000000	
*	100 STRAHNET: 1	
	12 Base Highway Network:	1
	13A LRS Inventory Route:	2851040300
	13B Sub Inventory Route:	0
*	101 Parallel Structure:	L
*	102 Direction of Traffic:	1
*	264 Road Inventory Mile Post:	021.93
*	208 Inspection Area: 03	Initials: WBP
	Engineer's Initial:	sgm

*	104 Highway System:	1
*	26 Functional Classification:	01
*	204 Federal Route Type:	I No.: 00851
	105 Federal Lands Highway:	0
*	110 Truck Route:	1
	206 School Bus Route:	1
	217 Benchmark Elevation:	0000.00
	218 Datum:	0
*	19 Bypass Length:	01
*	20 Toll:	3
*	21 Maintenance:	01
*	22 Owner:	01
*	31 Design Load:	6
	37 Historical Significance:	5
	205 Congressional District:	03
	27 Year Constructed:	1977
	106 Year Reconstructed:	0000
	33 Bridge Median:	1
	34 Skew:	25
	35 Structure Flared:	0
	38 Navigation Control:	0
	213 Special Steel Design:	0
	267 Type of Paint:	5
*	42 Type of Service on:	1
	Under:	5
	214 Movable Bridge:	0
	203 Type Bridge:	O-N-O-O
	259 Pile Encasement:	0
*	43 Structure Type Main:	1 04
	45 No. Spans Main:	007
	44 Structure Type Appr:	0 00
	46 No. Spans Appr:	0000
	226 Bridge Curve Horz:	1 Vert: 0
	111 Pier Protection:	0
	107 Deck Structure Type:	1
	108 Wearing Surface Type:	1
	Membrance:	8
	Protection:	8

Signs & Attachments

	225 Expansion Joint Type:	15	
	242 Deck Drains:	1	
	243 Parapet Location:	3	
	Height:		2.00
	Width:		1.00
	238 Curb:		0.00 0
	239 Handrail:	7 7	
*	240 Median Barrier Rail:	0	
	241 Bridge Median Height:		0.00
	Width:		0.00
*	230 Guardrail Loc Dir Rear:	3	
	Fwrd:	0	
	Oppo Dir Rear:	0	
	Fwrd:	0	
	244 Approach Slab:	3	
	224 Retaining Wall:	0	
	233 Posted Speed Limit:	70	
	236 Warning Sign:	0	
	234 Delineator:	1	
	235 Hazard Boards:	0	
	237 Utilities Gas:	00	
	Water:	00	
	Electric:	00	
	Telephone:	00	
	Sewer:	00	
	247 Lighting Street:	0	
	Naviagtion:	0	
	Aerial:	0	
*	248 County Continuity No.:	00	

* Location I.D. No.: 285-00403D-023.40N

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0071-0 **Troup** SUFF. RATING 84.97

Programming Data

201 Project No.: I-85-1 (44) 20
202 Plans Available: 4
249 Prop. Proj. No. MSL-0003-00(246)
250 Approval Status: 0000
251 P.I. No.: 0003246
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 064425 Year: 2030

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0686.4 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00039
Area Of Opening: 001300
113 Scour Critical: 5
216 Water Depth: 3.8 Br. Height: 15.6
222 Slope Protection: 1
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 1 Diver: WS

* Location I.D. No.: 285-00403D-023.40N

Measurements

* 29 ADT: 042950 Year: 2010
109 % Trucks: 0
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0040
* 49 Structure Length: 280
51 Br. Rwdy. Width: 42.00
52 Deck Width: 44.10
* 47 Tot. Horz. Cl: 42.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 038
* 229 Shoulder Width:
Rear Lt: 4.00 Type: 1 Rt: 10.00
Fwrd Lt: 4.00 Type: 1 Rt: 10.00
Pavement Width:
Rear: 24.00 Type: 1
Fwrd: 24.00 Type: 1
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 2
App. Rail End: 2
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: N 0.00
56 Lateral Undercl. Lt: 0.00
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.70
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 0000 Sub: 2000

Ratings

65 Inventory Rating Method: 1
63 Inventory Rating Method: 1
66 Inventory Type: 2 Rating: 27
64 Operating Type: 2 Rating: 45
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 28 0
Type 3s2: 40 0
Timber: 36 0
Piggyback: 40 0
261 H Inventory Rating: 20
262 H Operating Rating: 33
67 Structural Evaluation: 6
58 Deck Condition: 7
59 Superstructure Condition: 6
* 227 Collision Damage: 0
60A Substructure Condition: 6
60B Scour Condition: 6
60C Underwater Condition: 7
71 Waterway Adequacy: 8
61 Channel Protection Cond: 7
68 Deck Geometry: 8
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0086-0 **Troup** SUFF. RATING 82.81

Location & Geography

*	Structure I.D.No:	285-0086-0
200	Bridge Information	06
* 6A	Feature Int:	I-85 (SR 403)
* 6B	Critical Bridge:	0
* 7A	Route Number Carried:	CR00417
* 7B	Facility Carried:	M.-HOGANSVILLE RD
* 9	Location:	1.5 MI S OF HOGANSVILLE
2	DOT District:	3
207	Year Photo:	2009
* 91	Inspection Frequency:	24 Date: 11/16/2009
92A	Fract Crit Insp Freq:	00 Date: 02/01/1901
92B	Underwater Insp Freq:	00 Date: 02/01/1901
92C	Other Spc. Insp Freq:	00 Date: 02/01/1901
* 4	Place Code:	00000
* 5	Inventory Route (O/U):	1
	Type:	4
	Designation:	1
	Number:	00417
	Direction:	0
* 16	Latitude: 33-07.6878	MMS Prefix:
* 17	Longitude: 84-53.6088	MMS Suffix: MP: 0.00
98	Border Bridge: 000	%Shared: 00
99	ID Number:	000000000000000
* 100	STRAHNET: 0	
12	Base Highway Network:	1
13A	LRS Inventory Route:	2852041700
13B	Sub Inventory Route:	0
* 101	Parallel Structure:	N
* 102	Direction of Traffic:	2
* 264	Road Inventory Mile Post:	004.59
* 208	Inspection Area: 03	Initials: WBP
	Engineer's Initial:	sgm

* Location I.D. No.: 285-00417X-004.59N

* 104	Highway System:	0	
* 26	Functional Classification:	08	
* 204	Federal Route Type:	0	No.: 00000
105	Federal Lands Highway:	0	
* 110	Truck Route:	0	
206	School Bus Route:	1	
217	Benchmark Elevation:	0000.00	
218	Datum:	0	
* 19	Bypass Length:	10	
* 20	Toll:	3	
* 21	Maintenance:	01	
* 22	Owner:	01	
* 31	Design Load:	3	
37	Historical Significance:	5	
205	Congressional District:	03	
27	Year Constructed:	1977	
106	Year Reconstructed:	0000	
33	Bridge Median:	0	
34	Skew:	19	
35	Structure Flared:	0	
38	Navigation Control:	N	
213	Special Steel Design:	0	
267	Type of Paint:	5	
* 42	Type of Service on:	1	
	Under:	1	
214	Movable Bridge:	0	
203	Type Bridge:	O-O-M-O	
259	Pile Encasement:	3	
* 43	Structure Type Main:	4 02	
45	No. Spans Main:	004	
44	Structure Type Appr:	0 00	
46	No. Spans Appr:	0000	
226	Bridge Curve Horz:	0	Vert: 0
111	Pier Protection:	0	
107	Deck Structure Type:	1	
108	Wearing Surface Type:	1	
	Membrance:	8	
	Protection:	8	

Signs & Attachments

225	Expansion Joint Type:	03	
242	Deck Drains:	0	
243	Parapet Location:	3	
	Height:		2.00
	Width:		1.00
238	Curb:		0.00 0
239	Handrail:	7 7	
* 240	Median Barrier Rail:	0	
241	Bridge Median Height:		0.00
	Width:		0.00
* 230	Guardrail Loc Dir Rear:	3	
	Fwrd:	3	
	Oppo Dir Rear:	0	
	Fwrd:	0	
244	Approach Slab:	3	
224	Retaining Wall:	0	
233	Posted Speed Limit:	55	
236	Warning Sign:	0	
234	Delineator:	0	
235	Hazard Boards:	0	
237	Utilities Gas:	00	
	Water:	00	
	Electric:	00	
	Telephone:	22	
	Sewer:	00	
247	Lighting Street:	0	
	Naviagtion:	0	
	Aerial:	0	
* 248	County Continuity No.:	00	

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0086-0 **Troup** SUFF. RATING 82.81

Programming Data

201 Project No.: I-85-1 (44) 20
202 Plans Available: 4
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 001020 Year: 2027

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000000
113 Scour Critical: N
216 Water Depth: 00.0 Br. Height: 00.0
222 Slope Protection: 4
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 285-00417X-004.59N

Measurements

* 29 ADT: 000680 Year: 2007
109 % Trucks: 0
* 28 Lanes On: 02 Under: 04
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0106
* 49 Structure Length: 333
51 Br. Rwdy. Width: 32.00
52 Deck Width: 34.50
* 47 Tot. Horz. Cl: 32.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 021
* 229 Shoulder Width:
Rear Lt: 8.00 Type: 8 Rt: 8.00
Fwrd Lt: 8.00 Type: 8 Rt: 8.00
Pavement Width:
Rear: 21.00 Type: 2
Fwrd: 21.00 Type: 2
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 1
App. Rail End: 1
53 Minimum Cl.Over: 99 ' 99 "
Under: H 16 ' 08 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: H 29.70
56 Lateral Undercl. Lt: 42.60
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.50
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 1997 Sub: 0000

Ratings

65 Inventory Rating Method: 1
63 Inventory Rating Method: 1
66 Inventory Type: 2 Rating: 22
64 Operating Type: 2 Rating: 37
231 Calculated Loads
H-Modified: 21 0
HS-Modified: 24 0
Type 3: 24 0
Type 3s2: 27 0
Timber: 25 0
Piggyback: 00 0
261 H Inventory Rating: 21
262 H Operating Rating: 35
67 Structural Evaluation: 5
58 Deck Condition: 7
59 Superstructure Condition: 8
* 227 Collision Damage: 0
60A Substructure Condition: 7
60B Scour Condition: N
60C Underwater Condition: N
71 Waterway Adequacy: N
61 Channel Protection Cond: N
68 Deck Geometry: 6
69 UnderClr. Horz/Vert: 6
72 Appr. Alignment: 5
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

GEORGIA DEPARTMENT OF TRANSPORTATION

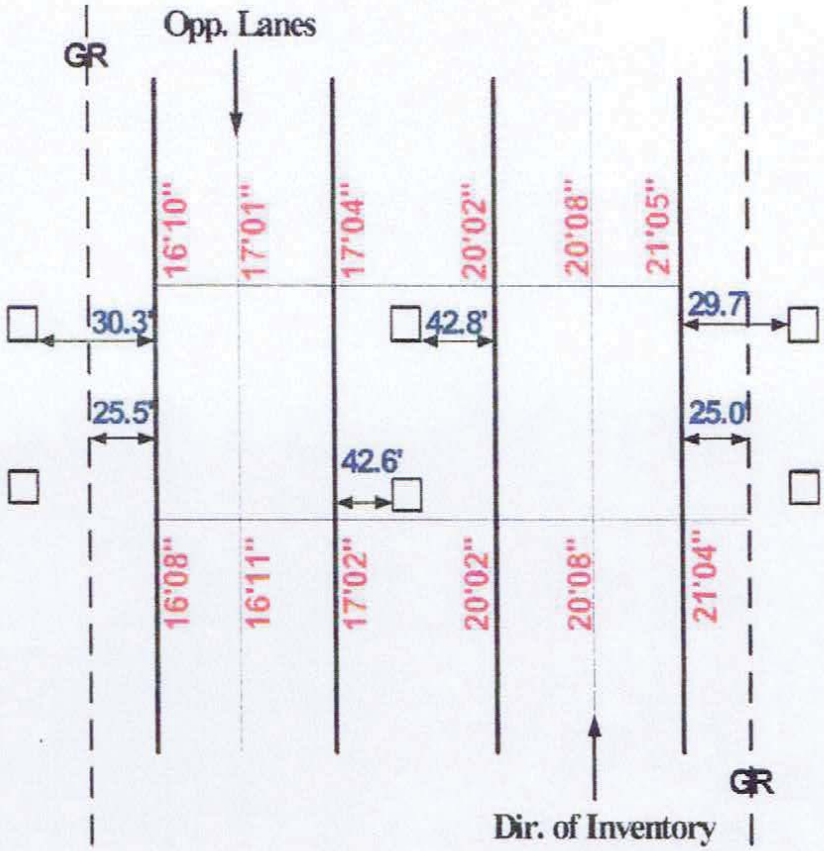
X-Vertical Clearance Report

District: 3 **Inspection Date:** 11/16/2009 **Inspection Area:** 03

Bridge Inspector: Bryon Patterson **Over:** I-85 (SR 403)

Location ID: 285-00417X-004.59N **County:** Troup **Skew:** 19

Structure ID: 285-0086-0 **Road Name:** M.-HOGANSVILLE RD



XLocationID **285-00403D-025.73N**

XRef ID: 285-0086-0-A

Min Clearance Over:	99-99	**Min Clearance Under:**	16-08	**Clearance Type:**	H
Act Min Vert. Odom:	20-02	**Post Min Vert. Odom:**	00-00		
Act Min Vert. Opp:	16-08	**Post Min Vert. Opp:**	00-00		
Max Min Vert. Clear:	20-08	**Direction:**	North		

Lat Under Cl Right: 29.70 **Left:** 42.60 **Lateral Type:** 6

Rating-Under Cl Horz/Vert: 6 **Total Horizontal Clearance (ft):** 92.10

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0072-0 **Troup** SUFF. RATING 74.02

Location & Geography

*	Structure I.D.No:	285-0072-0
	200 Bridge Information	06
*	6A Feature Int:	FLAT CREEK
*	6B Critical Bridge:	0
*	7A Route Number Carried:	SR00403
*	7B Facility Carried:	I-85 (NBL)
*	9 Location:	1.5 MI S OF HOGANSVILLE
	2 DOT District:	3
	207 Year Photo:	2009
*	91 Inspection Frequency:	24 Date: 12/03/2009
	92A Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B Underwater Insp Freq:	60 Date: 05/23/2011
	92C Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4 Place Code:	00000
*	5 Inventory Route (O/U):	1
	Type:	1
	Designation:	1
	Number:	00085
	Direction:	0
*	16 Latitude: 33-08.0134	MMS Prefix: SR
*	17 Longitude: 84-53.3668	MMS Suffix: 00 MP: 26.14
	98 Border Bridge: 000	%Shared: 00
	99 ID Number: 000000000000000	
*	100 STRAHNET: 1	
	12 Base Highway Network:	1
	13A LRS Inventory Route:	2851040300
	13B Sub Inventory Route:	0
*	101 Parallel Structure:	R
*	102 Direction of Traffic:	1
*	264 Road Inventory Mile Post:	024.69
*	208 Inspection Area: 03	Initials: WKR
	Engineer's Initial: sgm	

* Location I.D. No.: 285-00403D-026.14N

*	104	Highway System:	1
*	26	Functional Classification:	01
*	204	Federal Route Type:	1 No.: 00851
	105	Federal Lands Highway:	0
*	110	Truck Route:	1
	206	School Bus Route:	1
	217	Benchmark Elevation:	0000.00
	218	Datum:	0
*	19	Bypass Length:	01
*	20	Toll:	3
*	21	Maintenance:	01
*	22	Owner:	01
*	31	Design Load:	6
	37	Historical Significance:	5
	205	Congressional District:	03
	27	Year Constructed:	1977
	106	Year Reconstructed:	0000
	33	Bridge Median:	1
	34	Skew:	30
	35	Structure Flared:	0
	38	Navigation Control:	0
	213	Special Steel Design:	0
	267	Type of Paint:	5
*	42	Type of Service on:	1
		Under:	5
	214	Movable Bridge:	0
	203	Type Bridge:	E-N-O-O
	259	Pile Encasement:	1
*	43	Structure Type Main:	1 04
	45	No. Spans Main:	007
	44	Structure Type Appr:	0 00
	46	No. Spans Appr:	0000
	226	Bridge Curve Horz:	1 Vert: 0
	111	Pier Protection:	0
	107	Deck Structure Type:	1
	108	Wearing Surface Type:	1
		Membrance:	8
		Protection:	8

Signs & Attachments

	225	Expansion Joint Type:	15
	242	Deck Drains:	1
	243	Parapet Location:	3
		Height:	2.00
		Width:	1.00
	238	Curb:	0.00 0
	239	Handrail:	7 7
*	240	Median Barrier Rail:	0
	241	Bridge Median Height:	0.00
		Width:	0.00
*	230	Guardrail Loc Dir Rear:	3
		Fwrd:	2
		Oppo Dir Rear:	0
		Fwrd:	0
	244	Approach Slab:	3
	224	Retaining Wall:	0
	233	Posted Speed Limit:	70
	236	Warning Sign:	0
	234	Delineator:	1
	235	Hazard Boards:	0
	237	Utilities Gas:	00
		Water:	00
		Electric:	00
		Telephone:	00
		Sewer:	00
	247	Lighting Street:	0
		Naviagtion:	0
		Aerial:	0
*	248	County Continuity No.:	00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0072-0 **Troup** SUFF. RATING 74.02

Programming Data

201 Project No.: I-85-1 (44) 20
202 Plans Available: 4
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 064425 Year: 2030

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0695.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 28.8
Area Of Opening: 1130
113 Scour Critical: 5
216 Water Depth: 09.3 Br. Height: 17.3
222 Slope Protection: 1
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 1 Diver: WS

* Location I.D. No.: 285-00403D-026.14N

Measurements

* 29 ADT: 042950 Year: 2010
109 % Trucks: 0
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0036
* 49 Structure Length: 252
51 Br. Rwdy. Width: 42.00
52 Deck Width: 44.10
* 47 Tot. Horz. Cl: 42.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 038
* 229 Shoulder Width:
Rear Lt: 4.00 Type: 1 Rt: 10.00
Fwrd Lt: 4.00 Type: 1 Rt: 10.00
Pavement Width:
Rear: 24.00 Type: 1
Fwrd: 24.00 Type: 1
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 1
App. Rail End: 1
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: N 0.00
56 Lateral Undercl. Lt: 0.00
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.70
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 0000 Sub: 2000

Ratings

65 Inventory Rating Method: 1
63 Inventory Rating Method: 1
66 Inventory Type: 2 Rating: 26
64 Operating Type: 2 Rating: 43
231 Calculated Loads
H-Modified: 21 0
HS-Modified: 29 0
Type 3: 23 0
Type 3s2: 38 0
Timber: 33 0
Piggyback: 40 0
261 H Inventory Rating: 20
262 H Operating Rating: 33
67 Structural Evaluation: 5
58 Deck Condition: 7
59 Superstructure Condition: 7
* 227 Collision Damage: 0
60A Substructure Condition: 5
60B Scour Condition: 6
60C Underwater Condition: 5
71 Waterway Adequacy: 8
61 Channel Protection Cond: 7
68 Deck Geometry: 8
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0073-0 **Troup** SUFF. RATING 74.02

Location & Geography

*	Structure I.D.No:	285-0073-0
	200 Bridge Information	06
*	6A Feature Int:	FLAT CREEK
*	6B Critical Bridge:	0
*	7A Route Number Carried:	SR00403
*	7B Facility Carried:	I-85 (SBL)
*	9 Location:	1.5 MI S OF HOGANSVILLE
	2 DOT District:	3
	207 Year Photo:	2009
*	91 Inspection Frequency:	24 Date: 12/03/2009
	92A Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B Underwater Insp Freq:	60 Date: 05/23/2011
	92C Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4 Place Code:	00000
*	5 Inventory Route (O/U):	1
	Type:	1
	Designation:	1
	Number:	00085
	Direction:	0
*	16 Latitude: 33-08.0158	MMS Prefix: SR
*	17 Longitude: 84-53.394	MMS Suffix: 00 MP: 26.15
	98 Border Bridge: 000	%Shared: 00
	99 ID Number:	000000000000000
*	100 STRAHNET: 1	
	12 Base Highway Network:	1
	13A LRS Inventory Route:	2851040300
	13B Sub Inventory Route:	0
*	101 Parallel Structure:	L
*	102 Direction of Traffic:	1
*	264 Road Inventory Mile Post:	024.70
*	208 Inspection Area: 03	Initials: WKR
	Engineer's Initial:	sgm

* Location I.D. No.: 285-00403D-026.15N

*	104	Highway System:	1
*	26	Functional Classification:	01
*	204	Federal Route Type:	1 No.: 00851
	105	Federal Lands Highway:	0
*	110	Truck Route:	1
	206	School Bus Route:	1
	217	Benchmark Elevation:	0000.00
	218	Datum:	0
*	19	Bypass Length:	01
*	20	Toll:	3
*	21	Maintenance:	01
*	22	Owner:	01
*	31	Design Load:	6
	37	Historical Significance:	5
	205	Congressional District:	03
	27	Year Constructed:	1977
	106	Year Reconstructed:	0000
	33	Bridge Median:	1
	34	Skew:	30
	35	Structure Flared:	0
	38	Navigation Control:	0
	213	Special Steel Design:	0
	267	Type of Paint:	5
*	42	Type of Service on:	1
		Under:	5
	214	Movable Bridge:	0
	203	Type Bridge:	E-N-O-O
	259	Pile Encasement:	1
*	43	Structure Type Main:	1 04
	45	No. Spans Main:	007
	44	Structure Type Appr:	0 00
	46	No. Spans Appr:	0000
	226	Bridge Curve Horz:	0 Vert: 1
	111	Pier Protection:	0
	107	Deck Structure Type:	1
	108	Wearing Surface Type:	1
		Membrance:	8
		Protection:	8

Signs & Attachments

	225	Expansion Joint Type:	15
	242	Deck Drains:	1
	243	Parapet Location:	3
		Height:	2.00
		Width:	1.00
	238	Curb:	0.00 0
	239	Handrail:	7 7
*	240	Median Barrier Rail:	0
	241	Bridge Median Height:	0.00
		Width:	0.00
*	230	Guardrail Loc Dir Rear:	3
		Fwrd:	2
		Oppo Dir Rear:	0
		Fwrd:	0
	244	Approach Slab:	3
	224	Retaining Wall:	0
	233	Posted Speed Limit:	70
	236	Warning Sign:	0
	234	Delineator:	1
	235	Hazard Boards:	0
	237	Utilities Gas:	00
		Water:	00
		Electric:	00
		Telephone:	00
		Sewer:	00
	247	Lighting Street:	0
		Naviagtion:	0
		Aerial:	0
*	248	County Continuity No.:	00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0073-0 **Troup** SUFF. RATING 74.02

Programming Data

201 Project No.: 1-85-1 (44) 20
202 Plans Available: 4
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 064425 Year: 2030

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0695.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 28.8
Area Of Opening: 1130
113 Scour Critical: 5
216 Water Depth: 11.2 Br. Height: 18
222 Slope Protection: 1
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 1 Diver: WS

* Location I.D. No.: 285-00403D-026.15N

Measurements

* 29 ADT: 042950 Year: 2010
109 % Trucks: 0
* 28 Lanes On: 02 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0036
* 49 Structure Length: 252
51 Br. Rwdy. Width: 42.00
52 Deck Width: 44.10
* 47 Tot. Horz. Cl: 42.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 038
* 229 Shoulder Width:
Rear Lt: 4.00 Type: 1 Rt: 10.00
Fwrd Lt: 4.00 Type: 1 Rt: 10.00
Pavement Width:
Rear: 24.00 Type: 1
Fwrd: 24.00 Type: 1
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 1
App. Rail End: 1
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: N 0.00
56 Lateral Undercl. Lt: 0.00
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.70
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 0000 Sub: 2000

Ratings

65 Inventory Rating Method: 1
63 Inventory Rating Method: 1
66 Inventory Type: 2 Rating: 26
64 Operating Type: 2 Rating: 43
231 Calculated Loads
H-Modified: 21 0
HS-Modified: 29 0
Type 3: 23 0
Type 3s2: 38 0
Timber: 33 0
Piggyback: 40 0
261 H Inventory Rating: 20
262 H Operating Rating: 33
67 Structural Evaluation: 5
58 Deck Condition: 7
59 Superstructure Condition: 7
* 227 Collision Damage: 0
60A Substructure Condition: 5
60B Scour Condition: 6
60C Underwater Condition: 5
71 Waterway Adequacy: 8
61 Channel Protection Cond: 6
68 Deck Geometry: 8
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

SASTM

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INTERDEPARTMENT CORRESPONDENCE

March 13, 2003

BG

FROM: Buddy Gratton, P.E., State Maintenance Engineer

TO: Gerald Ross, State Road Design Engineer
Attn: Jason McCook

SUBJECT: Bridge Recommendations/ MSL-0003-00(246) Troup Meriwether

Structure ID: 285-0070-0
Location ID: 285-00403D-023.39N
I-85 NBL over Beech Creek

This bridge was built in 1977 and consists of concrete/steel H-Pile bents, concrete T-beam superstructure, and a concrete deck. The sufficiency rating on the structure is 77.5. The original design load capacity is HS-20. However, an analysis of the bridge indicated that the concrete superstructure is under reinforced for shear resulting in a substantially reduced load capacity approximately equal to HS-15. Therefore, we recommend that this bridge be replaced though due to unacceptable load capacity. Due to this criteria, no additional cost analysis or coring by the lab will be required.

Structure ID: 285-0071-0
Location ID: 285-00403D-023.40N
I-85 SBL over Beech Creek

This bridge was built in 1977 and consists of concrete/steel H-Pile bents, concrete T-beam superstructure, and a concrete deck. The sufficiency rating on the structure is 77.5. The original design load capacity is HS-20. However, an analysis of the bridge indicated that the concrete superstructure is under reinforced for shear resulting in a substantially reduced load capacity approximately equal to HS-15. Therefore, we recommend that this bridge be replaced though due to unacceptable load capacity. Due to this criteria, no additional cost analysis or coring by the lab will be required.

Structure ID: 285-0072-0
Location ID: 285-00403D-026.14N
I-85 NBL over Flat Creek

This bridge was built in 1977 and consists of concrete/steel H-Pile bents, concrete T-beam superstructure, and a concrete deck. The sufficiency rating on the structure is 77.5. The original design load capacity is HS-20. However, an analysis of the bridge indicated that the concrete superstructure is under reinforced for shear resulting in a substantially reduced load capacity approximately equal to HS-15. Therefore, we recommend that this bridge be replaced though due to unacceptable load capacity. Due to this criteria, no additional cost analysis or coring by the lab will be required.

Structure ID: 285-0073-0
Location ID: 285-00403D-026.15N
I-85 SBL over Flat Creek

This bridge was built in 1977 and consists of concrete/steel H-Pile bents, concrete T-beam superstructure, and a concrete deck. The sufficiency rating on the structure is 77.5. The original design load capacity is HS-20. However, an analysis of the bridge indicated that the concrete superstructure is under reinforced for shear resulting in a substantially reduced load capacity approximately equal to HS-15. Therefore, we recommend that this bridge be replaced though due to unacceptable load capacity. Due to this criteria, no additional cost analysis or coring by the lab will be required.

All overhead bridges are considered to be structurally adequate and are suitable for rehabilitation if required.

If further information is required, please contact Brian Summers at (404) 635-8179.

BG/BKS

cc: Percy Middlebrooks
Paul Liles Attn: Mike Clements

PI 0012801

TROUP & MERIWETHER

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0071-0 **Meriwether** SUFF. RATING 85.00

Location & Geography

*		Structure I.D.No:	199-0071-0
	200	Bridge Information	07
*	6A	Feature Int:	BLUE CREEK
*	6B	Critical Bridge:	0
*	7A	Route Number Carried:	SR00403
*	7B	Facility Carried:	I-85
*	9	Location:	2.5 MI W OF LONE OAK
	2	DOT District:	3
	207	Year Photo:	2012
*	91	Inspection Frequency:	24 Date: 04/17/2012
	92A	Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B	Underwater Insp Freq:	00 Date: 02/01/1901
	92C	Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4	Place Code:	00000
*	5	Inventory Route (O/U):	1
		Type:	1
		Designation:	1
		Number:	00085
		Direction:	0
*	16	Latitude: 33-10.8785	MMS Prefix: SR
*	17	Longitude: 84-51.4751	MMS Suffix: 00 MP: 29.95
	98	Border Bridge:	000 %Shared: 00
	99	ID Number:	000000000000000
*	100	STRAHNET:	1
	12	Base Highway Network:	1
	13A	LRS Inventory Route:	1991040300
	13B	Sub Inventory Route:	0
*	101	Parallel Structure:	N
*	102	Direction of Traffic:	2
*	264	Road Inventory Mile Post:	029.95
*	208	Inspection Area:	03 Initials: WBP
		Engineer's Initial:	eep

* Location I.D. No.: 199-00403D-029.95N

*	104	Highway System:	1
*	26	Functional Classification:	01
*	204	Federal Route Type:	I No.: 00851
	105	Federal Lands Highway:	0
*	110	Truck Route:	1
	206	School Bus Route:	0
	217	Benchmark Elevation:	0000.00
	218	Datum:	0
*	19	Bypass Length:	09
*	20	Toll:	3
*	21	Maintenance:	01
*	22	Owner:	01
*	31	Design Load:	6
	37	Historical Significance:	5
	205	Congressional District:	03
	27	Year Constructed:	1977
	106	Year Reconstructed:	0000
	33	Bridge Median:	1
	34	Skew:	30
	35	Structure Flared:	0
	38	Navigation Control:	0
	213	Special Steel Design:	0
	267	Type of Paint:	0
*	42	Type of Service on:	1
		Under:	5
	214	Movable Bridge:	0
	203	Type Bridge:	Q
	259	Pile Encasement:	3
*	43	Structure Type Main:	1 19
	45	No. Spans Main:	002
	44	Structure Type Appr:	0 00
	46	No. Spans Appr:	0000
	226	Bridge Curve Horz:	0 Vert: 0
	111	Pier Protection:	0
	107	Deck Structure Type:	N
	108	Wearing Surface Type:	N
		Membrance:	N
		Protection:	N

Signs & Attachments

	225	Expansion Joint Type:	00	
	242	Deck Drains:	0	
	243	Parapet Location:	0	
		Height:	0.00	
		Width:	0.00	
	238	Curb:	0.00	0
	239	Handrail:	0	0
*	240	Median Barrier Rail:	0	
	241	Bridge Median Height:	0.00	
		Width:	0.00	
*	230	Guardrail Loc Dir Rear:	0	
		Fwrd:	0	
		Oppo Dir Rear:	0	
		Fwrd:	0	
	244	Approach Slab:	0	
	224	Retaining Wall:	0	
	233	Posted Speed Limit:	70	
	236	Warning Sign:	0	
	234	Delineator:	0	
	235	Hazard Boards:	0	
	237	Utilities Gas:	00	
		Water:	00	
		Electric:	00	
		Telephone:	00	
		Sewer:	00	
	247	Lighting Street:	0	
		Naviagtion:	0	
		Aerial:	0	
*	248	County Continuity No.:	00	

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0071-0 **Meriwether** SUFF. RATING 85.00

Programming Data

201 Project No.: I-85-1 (45) 33
202 Plans Available: 1
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 066420 Year: 3930

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000162
113 Scour Critical: 8
216 Water Depth: 02.3 Br. Height: 08.9
222 Slope Protection: 0
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 9
Type: 1
No. Barrels: 2
Width: 9.00 Height: 9.00
Length: 276 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 199-00403D-029.95N

Measurements

* 29 ADT: 044280 Year: 3910
109 % Trucks: 17
* 28 Lanes On: 04 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0010
* 49 Structure Length: 22
51 Br. Rwdy. Width: 0.00
52 Deck Width: 0.00
* 47 Tot. Horz. Cl: 60.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 076
* 229 Shoulder Width:
Rear Lt: 4.00 Type: 1 Rt: 10.00
Fwrd Lt: 4.00 Type: 1 Rt: 10.00
Pavement Width:
Rear: 24.00 Type: 1
Fwrd: 24.00 Type: 1
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: N
Transition: N
App. G. Rail: N
App. Rail End: N
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: N 0.00
56 Lateral Undercl. Lt: 0.00
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 0.00
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 0000 Sub: 0000

Ratings

65 Inventory Rating Method: 0
63 Inventory Rating Method: 0
66 Inventory Type: 2 Rating: 36
64 Operating Type: 2 Rating: 61
231 Calculated Loads
H-Modified: 00 0
HS-Modified: 00 0
Type 3: 00 0
Type 3s2: 00 0
Timber: 00 0
Piggyback: 00 0
261 H Inventory Rating: 20
262 H Operating Rating: 34
67 Structural Evaluation: 7
58 Deck Condition: N
59 Superstructure Condition: N
* 227 Collision Damage: 0
60A Substructure Condition: N
60B Scour Condition: 6
60C Underwater Condition: N
71 Waterway Adequacy: 8
61 Channel Protection Cond: 7
68 Deck Geometry: N
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 7
62 Culvert: 7

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0072-0 **Meriwether** SUFF. RATING 85.00

Location & Geography

*		Structure I.D.No:	199-0072-0
	200	Bridge Information	01
*	6A	Feature Int:	YELLOW JACKET CREEK TRIB
*	6B	Critical Bridge:	0
*	7A	Route Number Carried:	SR00403
*	7B	Facility Carried:	I-85
*	9	Location:	2.3 MI NW OF LONE OAK
	2	DOT District:	3
	207	Year Photo:	2012
*	91	Inspection Frequency:	24 Date: 04/17/2012
	92A	Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B	Underwater Insp Freq:	00 Date: 02/01/1901
	92C	Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4	Place Code:	00000
*	5	Inventory Route (O/U):	1
		Type:	1
		Designation:	1
		Number:	00085
		Direction:	0
*	16	Latitude: 33-12.1830	MMS Prefix: SR
*	17	Longitude: 84-50.1553	MMS Suffix: 00 MP: 31.94
	98	Border Bridge:	000 %Shared: 00
	99	ID Number:	000000000000000
*	100	STRAHNET:	1
	12	Base Highway Network:	1
	13A	LRS Inventory Route:	1991040300
	13B	Sub Inventory Route:	0
*	101	Parallel Structure:	N
*	102	Direction of Traffic:	2
*	264	Road Inventory Mile Post:	031.94
*	208	Inspection Area:	03 Initials: WBP
		Engineer's Initial:	eep

* Location I.D. No.: 199-00403D-031.94N

*	104	Highway System:	1
*	26	Functional Classification:	01
*	204	Federal Route Type:	I No.: 00851
	105	Federal Lands Highway:	0
*	110	Truck Route:	1
	206	School Bus Route:	0
	217	Benchmark Elevation:	0000.00
	218	Datum:	0
*	19	Bypass Length:	06
*	20	Toll:	3
*	21	Maintenance:	01
*	22	Owner:	01
*	31	Design Load:	6
	37	Historical Significance:	5
	205	Congressional District:	03
	27	Year Constructed:	1977
	106	Year Reconstructed:	0000
	33	Bridge Median:	1
	34	Skew:	15
	35	Structure Flared:	0
	38	Navigation Control:	0
	213	Special Steel Design:	0
	267	Type of Paint:	0
*	42	Type of Service on:	1
		Under:	5
	214	Movable Bridge:	0
	203	Type Bridge:	Q
	259	Pile Encasement:	3
*	43	Structure Type Main:	1 19
	45	No. Spans Main:	002
	44	Structure Type Appr:	0 00
	46	No. Spans Appr:	0000
	226	Bridge Curve Horz:	0 Vert: 0
	111	Pier Protection:	0
	107	Deck Structure Type:	N
	108	Wearing Surface Type:	N
		Membrance:	N
		Protection:	N

Signs & Attachments

	225	Expansion Joint Type:	00
	242	Deck Drains:	0
	243	Parapet Location:	0
		Height:	0.00
		Width:	0.00
	238	Curb:	0.00 0
	239	Handrail:	0 0
*	240	Median Barrier Rail:	0
	241	Bridge Median Height:	0.00
		Width:	0.00
*	230	Guardrail Loc Dir Rear:	5
		Fwrd:	5
		Oppo Dir Rear:	5
		Fwrd:	5
	244	Approach Slab:	0
	224	Retaining Wall:	0
	233	Posted Speed Limit:	70
	236	Warning Sign:	0
	234	Delineator:	0
	235	Hazard Boards:	1
	237	Utilities Gas:	00
		Water:	00
		Electric:	00
		Telephone:	00
		Sewer:	00
	247	Lighting Street:	0
		Naviagtion:	0
		Aerial:	0
*	248	County Continuity No.:	00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0072-0 **Meriwether** SUFF. RATING 85.00

Programming Data

201 Project No.: I-85-1 (45) 33
202 Plans Available: 1
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 066420 Year: 3930

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 180
113 Scour Critical: 8
216 Water Depth: 01.0 Br. Height: 08.0
222 Slope Protection: 0
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 15
Type: 1
No. Barrels: 2
Width: 10.00 Height: 9.00
Length: 298 Apron: 1
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 199-00403D-031.94N

Measurements

* 29 ADT: 044280 Year: 3910
109 % Trucks: 17
* 28 Lanes On: 04 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0010
* 49 Structure Length: 22
51 Br. Rwdy. Width: 0.00
52 Deck Width: 0.00
* 47 Tot. Horz. Cl: 50.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 076
* 229 Shoulder Width:
Rear Lt: 4.00 Type: 1 Rt: 10.00
Fwrd Lt: 4.00 Type: 1 Rt: 10.00
Pavement Width:
Rear: 24.00 Type: 1
Fwrd: 24.00 Type: 1
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 1
App. G. Rail: 1
App. Rail End: 1
53 Minimum Cl.Over: 99 ' 99 "
Under: N 00 ' 00 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: N 0.00
56 Lateral Undercl. Lt: 0.00
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 0.00
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 0000 Sub: 0000

Ratings

65 Inventory Rating Method: 0
63 Inventory Rating Method: 0
66 Inventory Type: 2 Rating: 99
64 Operating Type: 2 Rating: 99
231 Calculated Loads
H-Modified: 00 0
HS-Modified: 00 0
Type 3: 00 0
Type 3s2: 00 0
Timber: 00 0
Piggyback: 00 0
261 H Inventory Rating: 20
262 H Operating Rating: 34
67 Structural Evaluation: 6
58 Deck Condition: N
59 Superstructure Condition: N
* 227 Collision Damage: 0
60A Substructure Condition: N
60B Scour Condition: 8
60C Underwater Condition: N
71 Waterway Adequacy: 8
61 Channel Protection Cond: 7
68 Deck Geometry: N
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 7
62 Culvert: 6

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0029-0 **Troup** SUFF. RATING 93.86

Location & Geography

*	Structure I.D.No:	285-0029-0
	200 Bridge Information	01
*	6A Feature Int:	I-85 (SR 403)
*	6B Critical Bridge:	0
*	7A Route Number Carried:	SR00054
*	7B Facility Carried:	SR 54
*	9 Location:	EAST EDGE OF HOGANSVILLE
	2 DOT District:	3
	207 Year Photo:	2009
*	91 Inspection Frequency:	24 Date: 11/16/2009
	92A Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B Underwater Insp Freq:	00 Date: 02/01/1901
	92C Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4 Place Code:	39244
*	5 Inventory Route (O/U):	1
	Type:	3
	Designation:	1
	Number:	00054
	Direction:	0
*	16 Latitude: 33-09.5967	MMS Prefix: SR
*	17 Longitude: 84-52.1082	MMS Suffix: 00 MP: 10.35
	98 Border Bridge: 000	%Shared: 00
	99 ID Number:	000000000000000
*	100 STRAHNET:	0
	12 Base Highway Network:	1
	13A LRS Inventory Route:	2851005400
	13B Sub Inventory Route:	0
*	101 Parallel Structure:	N
*	102 Direction of Traffic:	2
*	264 Road Inventory Mile Post:	010.35
*	208 Inspection Area: 03	Initials: WBP
	Engineer's Initial: sgm	

* Location I.D. No.: 285-00054D-010.35E

*	104 Highway System:	0
*	26 Functional Classification:	07
*	204 Federal Route Type:	S No.: 00738
	105 Federal Lands Highway:	0
*	110 Truck Route:	0
	206 School Bus Route:	1
	217 Benchmark Elevation:	0000.00
	218 Datum:	0
*	19 Bypass Length:	16
*	20 Toll:	3
*	21 Maintenance:	01
*	22 Owner:	01
*	31 Design Load:	6
	37 Historical Significance:	5
	205 Congressional District:	03
	27 Year Constructed:	1977
	106 Year Reconstructed:	0000
	33 Bridge Median:	0
	34 Skew:	05
	35 Structure Flared:	0
	38 Navigation Control:	N
	213 Special Steel Design:	0
	267 Type of Paint:	5
*	42 Type of Service on:	1
	Under:	1
	214 Movable Bridge:	0
	203 Type Bridge:	O-O-M-O
	259 Pile Encasement:	3
*	43 Structure Type Main:	4 02
	45 No. Spans Main:	004
	44 Structure Type Appr:	0 00
	46 No. Spans Appr:	0000
	226 Bridge Curve Horz:	0 Vert: 0
	111 Pier Protection:	0
	107 Deck Structure Type:	1
	108 Wearing Surface Type:	1
	Membrance:	8
	Protection:	8

Signs & Attachments

	225	Expansion Joint Type:	07
	242	Deck Drains:	0
	243	Parapet Location:	3
		Height:	2.00
		Width:	1.00
	238	Curb:	0.00 0
	239	Handrail:	7 7
*	240	Median Barrier Rail:	0
	241	Bridge Median Height:	0.00
		Width:	0.00
*	230	Guardrail Loc Dir Rear:	3
		Fwrd:	3
		Oppo Dir Rear:	0
		Fwrd:	0
	244	Approach Slab:	3
	224	Retaining Wall:	0
	233	Posted Speed Limit:	55
	236	Warning Sign:	0
	234	Delineator:	1
	235	Hazard Boards:	0
	237	Utilities Gas:	00
		Water:	00
		Electric:	00
		Telephone:	21
		Sewer:	00
	247	Lighting Street:	0
		Naviagtion:	0
		Aerial:	0
*	248	County Continuity No.:	00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 285-0029-0 **Troup** SUFF. RATING 93.86

Programming Data

201 Project No.: I-85-1 (44) 20
202 Plans Available: 4
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 007665 Year: 2027

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000000
113 Scour Critical: N
216 Water Depth: 00.0 Br. Height: 00.0
222 Slope Protection: 4
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 285-00054D-010.35E

Measurements

* 29 ADT: 005110 Year: 2007
109 % Trucks: 0
* 28 Lanes On: 02 Under: 04
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0101
* 49 Structure Length: 309
51 Br. Rwdy. Width: 48.00
52 Deck Width: 50.40
* 47 Tot. Horz. Cl: 48.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 024
* 229 Shoulder Width:
Rear Lt: 10.00 Type: 8 Rt: 10.00
Fwrd Lt: 10.00 Type: 8 Rt: 10.00
Pavement Width:
Rear: 24.00 Type: 2
Fwrd: 24.00 Type: 2
Intersection Rear: 0 Fwrd: 1
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 1
App. Rail End: 1
53 Minimum Cl.Over: 99 ' 99 "
Under: H 16 ' 09 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: H 29.10
56 Lateral Undercl. Lt: 41.20
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 8.10
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 1997 Sub: 0000

Ratings

65 Inventory Rating Method: 2
63 Inventory Rating Method: 2
66 Inventory Type: 2 Rating: 36
64 Operating Type: 2 Rating: 54
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 28 0
Type 3s2: 40 0
Timber: 36 0
Piggyback: 40 0
261 H Inventory Rating: 20
262 H Operating Rating: 33
67 Structural Evaluation: 7
58 Deck Condition: 7
59 Superstructure Condition: 8
* 227 Collision Damage: 0
60A Substructure Condition: 7
60B Scour Condition: N
60C Underwater Condition: N
71 Waterway Adequacy: N
61 Channel Protection Cond: N
68 Deck Geometry: 9
69 UnderClr. Horz/Vert: 7
72 Appr. Alignment: 7
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

GEORGIA DEPARTMENT OF TRANSPORTATION

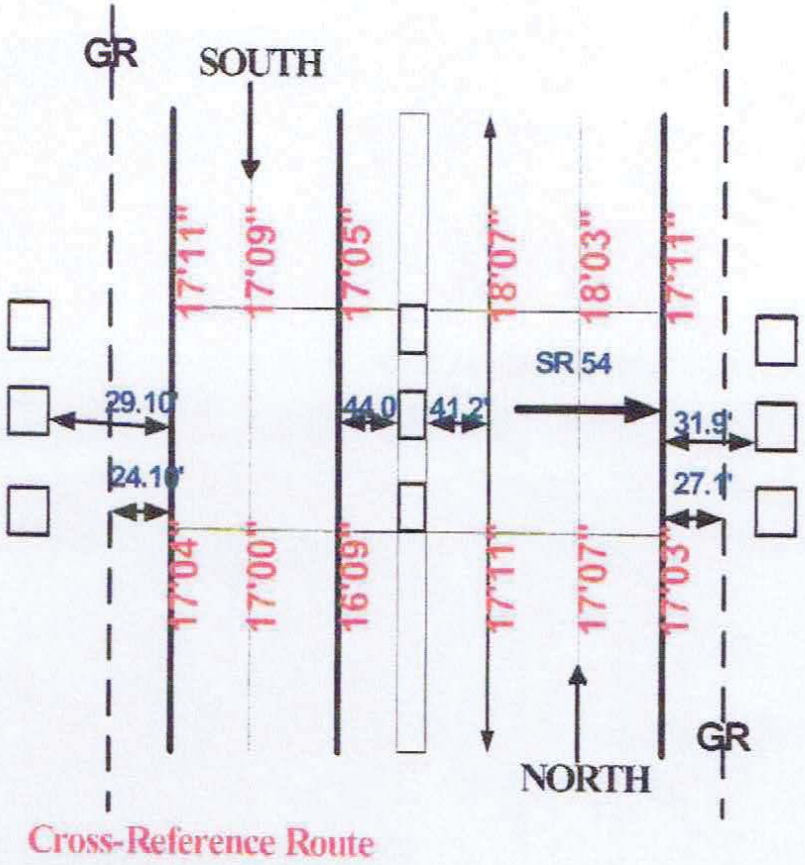
X-Vertical Clearance Report

District: 3
Bridge Inspector: Bryon Patterson
Location ID: 285-00054D-010.35E
Structure ID: 285-0029-0

Inspection Date: 11/16/2009
Over: I-85 (SR 403)
County: Troup
Road Name: SR 54

Inspection Area: 03

Skew: 05



XLocationID 285-00403D-028.37N
XRef ID: 285-0029-0-A

Min Clearance Over:	99-99	**Min Clearance Under:**	16-09	**Clearance Type:**	H
Act Min Vert. Odom:	17-03	**Post Min Vert. Odom:**	00-00		
Act Min Vert. Opp:	16-09	**Post Min Vert. Opp:**	00-00		
Max Min Vert. Clear:	17-07	**Direction:**	North		

Lat Under Cl Right: 29.10 **Left:** 41.20 **Lateral Type:** 7

Rating-Under Cl Horz/Vert: 7 **Total Horizontal Clearance (ft):** 92.50

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0002-0 **Meriwether** SUFF. RATING 85.38

Location & Geography

*	Structure I.D.No:	199-0002-0
	200 Bridge Information	06
*	6A Feature Int:	I-85@029.68N
*	6B Critical Bridge:	0
*	7A Route Number Carried:	CR00017
*	7B Facility Carried:	SIMS ROAD
*	9 Location:	2 MI W OF LONE OAK
	2 DOT District:	3
	207 Year Photo:	2010
*	91 Inspection Frequency:	24 Date: 04/05/2010
	92A Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B Underwater Insp Freq:	00 Date: 02/01/1901
	92C Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4 Place Code:	00000
*	5 Inventory Route (O/U):	1
	Type:	4
	Designation:	1
	Number:	00017
	Direction:	0
*	16 Latitude: 33-10.6642	MMS Prefix:
*	17 Longitude: 84-51.6445	MMS Suffix: MP: 0.00
	98 Border Bridge: 000	%Shared: 00
	99 ID Number:	000000000000000
*	100 STRAHNET: 0	
	12 Base Highway Network:	1
	13A LRS Inventory Route:	1992001700
	13B Sub Inventory Route:	0
*	101 Parallel Structure:	N
*	102 Direction of Traffic:	2
*	264 Road Inventory Mile Post:	001.48
*	208 Inspection Area: 03	Initials: RJF
	Engineer's Initial:	gmc

* Location I.D. No.: 199-00017X-001.20N

*	104 Highway System:	0
*	26 Functional Classification:	09
*	204 Federal Route Type:	0 No.: 00000
	105 Federal Lands Highway:	0
*	110 Truck Route:	0
	206 School Bus Route:	0
	217 Benchmark Elevation:	0000.00
	218 Datum:	0
*	19 Bypass Length:	06
*	20 Toll:	3
*	21 Maintenance:	01
*	22 Owner:	01
*	31 Design Load:	3
	37 Historical Significance:	5
	205 Congressional District:	03
	27 Year Constructed:	1977
	106 Year Reconstructed:	0000
	33 Bridge Median:	0
	34 Skew:	45
	35 Structure Flared:	0
	38 Navigation Control:	N
	213 Special Steel Design:	0
	267 Type of Paint:	5
*	42 Type of Service on:	1
	Under:	1
	214 Movable Bridge:	0
	203 Type Bridge:	O-O-M-O
	259 Pile Encasement:	3
*	43 Structure Type Main:	3 02
	45 No. Spans Main:	004
	44 Structure Type Appr:	0 00
	46 No. Spans Appr:	0000
	226 Bridge Curve Horz:	0 Vert: 1
	111 Pier Protection:	0
	107 Deck Structure Type:	1
	108 Wearing Surface Type:	1
	Membrance:	8
	Protection:	8

Signs & Attachments

	225 Expansion Joint Type:	03	
	242 Deck Drains:	0	
	243 Parapet Location:	3	
	Height:		1.90
	Width:		1.10
	238 Curb:		0.00 0
	239 Handrail:	7 7	
*	240 Median Barrier Rail:	0	
	241 Bridge Median Height:		0.00
	Width:		0.00
*	230 Guardrail Loc Dir Rear:	3	
	Fwrd:	3	
	Oppo Dir Rear:	0	
	Fwrd:	0	
	244 Approach Slab:	3	
	224 Retaining Wall:	0	
	233 Posted Speed Limit:	35	
	236 Warning Sign:	0	
	234 Delineator:	0	
	235 Hazard Boards:	0	
	237 Utilities Gas:	00	
	Water:	00	
	Electric:	00	
	Telephone:	00	
	Sewer:	00	
	247 Lighting Street:	0	
	Naviagtion:	0	
	Aerial:	0	
*	248 County Continuity No.:	00	

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0002-0 **Meriwether** SUFF. RATING 85.38

Programming Data

201 Project No.: I-85-1 (44) 20
202 Plans Available: 4
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 000210 Year: 2027

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000000
113 Scour Critical: N
216 Water Depth: 00.0 Br. Height: 00.0
222 Slope Protection: 4
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 199-00017X-001.20N

Measurements

* 29 ADT: 000140 Year: 2007
109 % Trucks: 0
* 28 Lanes On: 02 Under: 04
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0142
* 49 Structure Length: 428
51 Br. Rwdy. Width: 30.00
52 Deck Width: 32.40
* 47 Tot. Horz. Cl: 30.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 20
* 229 Shoulder Width:
Rear Lt: 0.00 Type: 7 Rt: 0.00
Fwrd Lt: 0.00 Type: 7 Rt: 0.00
Pavement Width:
Rear: 30.00 Type: 7
Fwrd: 20.00 Type: 7
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 2
App. Rail End: 2
53 Minimum Cl.Over: 99 ' 99 "
Under: H 16 ' 09 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: H 30.20
56 Lateral Undercl. Lt: 42.50
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.00
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 2000 Sub: 0000

Ratings

65 Inventory Rating Method: 1
63 Inventory Rating Method: 1
66 Inventory Type: 2 Rating: 24
64 Operating Type: 2 Rating: 41
231 Calculated Loads
H-Modified: 21 0
HS-Modified: 30 0
Type 3: 30 0
Type 3s2: 40 0
Timber: 37 0
Piggyback: 00 0
261 H Inventory Rating: 22
262 H Operating Rating: 37
67 Structural Evaluation: 6
58 Deck Condition: 7
59 Superstructure Condition: 7
* 227 Collision Damage: 1
60A Substructure Condition: 6
60B Scour Condition: N
60C Underwater Condition: N
71 Waterway Adequacy: N
61 Channel Protection Cond: N
68 Deck Geometry: 6
69 UnderClr. Horz/Vert: 7
72 Appr. Alignment: 5
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

GEORGIA DEPARTMENT OF TRANSPORTATION

X-Vertical Clearance Report

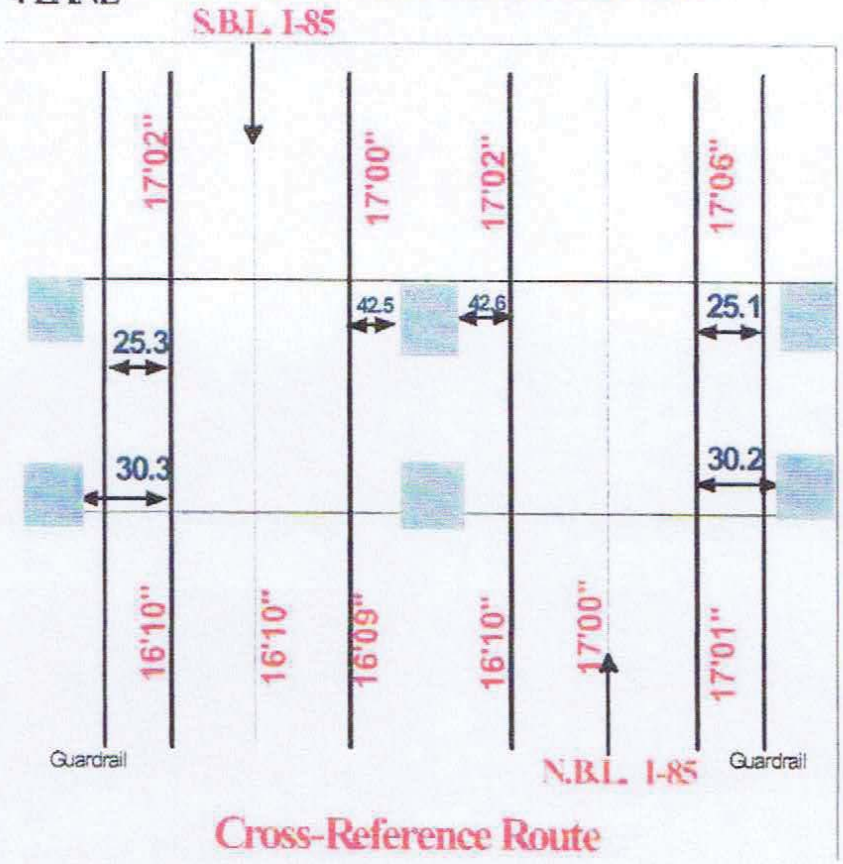
District: 3
Bridge Inspector: Bryon Patterson
Location ID: 199-00017X-001.20N
Structure ID: 199-0002-0

Inspection Date: 4/5/2010
Over: I-85@029.68N
County: Meriwether
Road Name: SIMS ROAD

Inspection Area: 03
Skew: 45

VERTICAL CLEARANCE

4 LANE Show & Code Actual Measured Clearances.



XLocationID 199-00403D-029.68N
XRef ID: 199-0002-0-A

Min Clearance Over:	99-99	**Min Clearance Under:**	16-09	**Clearance Type:**	H
Act Min Vert. Odom:	16-10	**Post Min Vert. Odom:**	00-00		
Act Min Vert. Opp:	16-09	**Post Min Vert. Opp:**	00-00		
Max Min Vert. Clear:	17-00	**Direction:**	North		

Lat Under Cl Right: 30.20 **Left:** 42.50 **Lateral Type:** 7

Rating-Under Cl Horz/Vert: 7 **Total Horizontal Clearance (ft):** 96.80

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0001-0 | **Meriwether** | SUFF. RATING 90.19

Location & Geography

*	Structure I.D.No:	199-0001-0
	200 Bridge Information	07
*	6A Feature Int:	I-85 at 030.8IN
*	6B Critical Bridge:	0
*	7A Route Number Carried:	CR00015
*	7B Facility Carried:	SEWELL ROAD
*	9 Location:	2.7 MI NW OF LONE OAK
	2 DOT District:	3
	207 Year Photo:	2010
*	91 Inspection Frequency:	24 Date: 04/07/2010
	92A Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B Underwater Insp Freq:	00 Date: 02/01/1901
	92C Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4 Place Code:	00000
*	5 Inventory Route (O/U):	1
	Type:	4
	Designation:	1
	Number:	00015
	Direction:	0
*	16 Latitude: 33-11.4698	MMS Prefix:
*	17 Longitude: 84-50.9838	MMS Suffix: MP: 0.00
	98 Border Bridge: 000	%Shared: 00
	99 ID Number:	000000000000000
*	100 STRAHNET: 0	
	12 Base Highway Network:	1
	13A LRS Inventory Route:	1992001500
	13B Sub Inventory Route:	0
*	101 Parallel Structure:	N
*	102 Direction of Traffic:	2
*	264 Road Inventory Mile Post:	002.38
*	208 Inspection Area: 03	Initials: WBP
	Engineer's Initial: sgm	

* Location I.D. No.: 199-00015X-002.20N

*	104 Highway System:	0
*	26 Functional Classification:	09
*	204 Federal Route Type:	0 No.: 00000
	105 Federal Lands Highway:	0
*	110 Truck Route:	0
	206 School Bus Route:	1
	217 Benchmark Elevation:	0000.00
	218 Datum:	0
*	19 Bypass Length:	06
*	20 Toll:	3
*	21 Maintenance:	01
*	22 Owner:	01
*	31 Design Load:	3
	37 Historical Significance:	5
	205 Congressional District:	03
	27 Year Constructed:	1975
	106 Year Reconstructed:	0000
	33 Bridge Median:	0
	34 Skew:	26
	35 Structure Flared:	0
	38 Navigation Control:	N
	213 Special Steel Design:	0
	267 Type of Paint:	5
*	42 Type of Service on:	1
	Under:	1
	214 Movable Bridge:	0
	203 Type Bridge:	O-O-M-O
	259 Pile Encasement:	3
*	43 Structure Type Main:	4 02
	45 No. Spans Main:	004
	44 Structure Type Appr:	0 00
	46 No. Spans Appr:	0000
	226 Bridge Curve Horz:	0 Vert: 1
	111 Pier Protection:	0
	107 Deck Structure Type:	1
	108 Wearing Surface Type:	1
	Membrance:	8
	Protection:	8

Signs & Attachments

	225 Expansion Joint Type:	03
	242 Deck Drains:	0
	243 Parapet Location:	3
	Height:	2.00
	Width:	1.10
	238 Curb:	0.00 0
	239 Handrail:	7 7
*	240 Median Barrier Rail:	0
	241 Bridge Median Height:	0.00
	Width:	0.00
*	230 Guardrail Loc Dir Rear:	3
	Fwrd:	3
	Oppo Dir Rear:	0
	Fwrd:	0
	244 Approach Slab:	3
	224 Retaining Wall:	0
	233 Posted Speed Limit:	45
	236 Warning Sign:	0
	234 Delineator:	0
	235 Hazard Boards:	0
	237 Utilities Gas:	00
	Water:	00
	Electric:	00
	Telephone:	00
	Sewer:	00
	247 Lighting Street:	0
	Naviagtion:	0
	Aerial:	0
*	248 County Continuity No.:	00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0001-0 **Meriwether** SUFF. RATING 90.19

Programming Data

201 Project No.: 1-85-1 (44) 20
202 Plans Available: 4
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 000930 Year: 2027

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000000
113 Scour Critical: N
216 Water Depth: 00.0 Br. Height: 00.0
222 Slope Protection: 4
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 199-00015X-002.20N

Measurements

* 29 ADT: 000620 Year: 2007
109 % Trucks: 0
* 28 Lanes On: 02 Under: 04
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0113
* 49 Structure Length: 338
51 Br. Rwdy. Width: 30.00
52 Deck Width: 32.40
* 47 Tot. Horz. Cl: 30.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 020
* 229 Shoulder Width:
Rear Lt: 5.00 Type: 8 Rt: 5.00
Fwrd Lt: 5.00 Type: 8 Rt: 5.00
Pavement Width:
Rear: 20.00 Type: 2
Fwrd: 20.00 Type: 2
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 2
App. Rail End: 2
53 Minimum Cl.Over: 99 ' 99 "
Under: H 16 ' 06 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: H 30.60
56 Lateral Undercl. Lt: 42.90
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.50
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 1997 Sub: 0000

Ratings

65 Inventory Rating Method: 2
63 Inventory Rating Method: 2
66 Inventory Type: 2 Rating: 27
64 Operating Type: 2 Rating: 49
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 28 0
Type 3s2: 40 0
Timber: 36 0
Piggyback: 00 0
261 H Inventory Rating: 17
262 H Operating Rating: 31
67 Structural Evaluation: 6
58 Deck Condition: 7
59 Superstructure Condition: 7
* 227 Collision Damage: 0
60A Substructure Condition: 7
60B Scour Condition: N
60C Underwater Condition: N
71 Waterway Adequacy: N
61 Channel Protection Cond: N
68 Deck Geometry: 6
69 UnderClr. Horz/Vert: 6
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

GEORGIA DEPARTMENT OF TRANSPORTATION

X-Vertical Clearance Report

District: 3 **Inspection Date:** 4/7/2010 **Inspection Area:** 03

Bridge Inspector: Bryon Patterson **Over:** I-85 at 030.81N

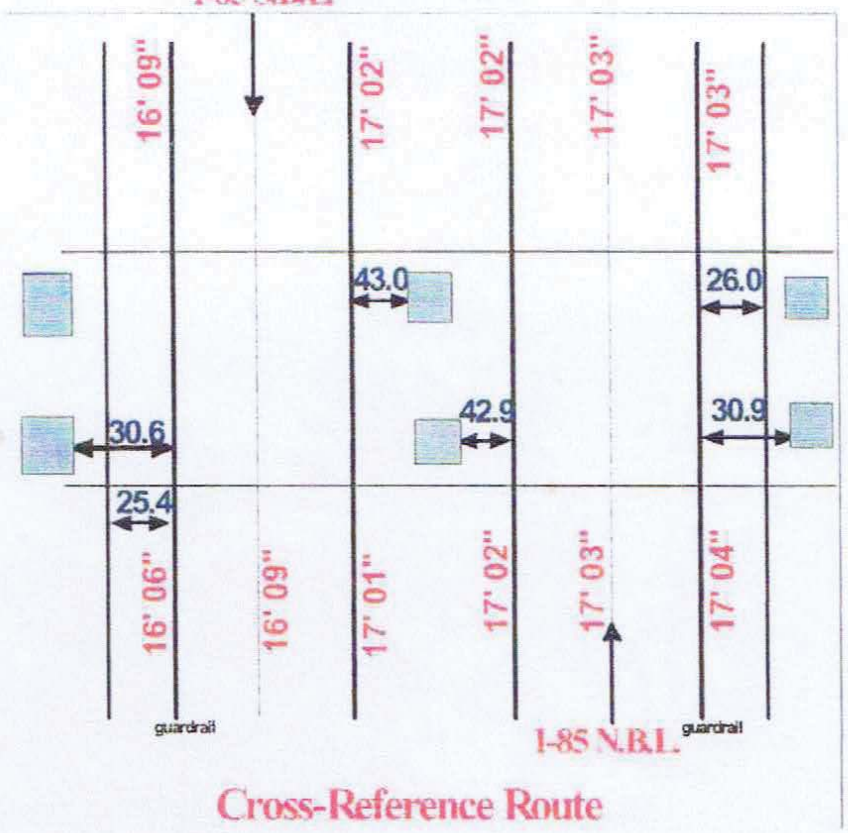
Location ID: 199-00015X-002.20N **County:** Meriwether **Skew:** 26

Structure ID: 199-0001-0 **Road Name:** SEWELL ROAD

---

4 LANE **VERTICAL CLEARANCE**

Show & Code Actual Measured Clearances.



XLocationID **199-00403D-030.81N**

XRef ID: 199-0001-0-A

Min Clearance Over:	99-99	**Min Clearance Under:**	16-06	**Clearance Type:**	H
Act Min Vert. Odom:	17-02	**Post Min Vert. Odom:**	00-00		
Act Min Vert. Opp:	16-06	**Post Min Vert. Opp:**	00-00		
Max Min Vert. Clear:	17-03	**Direction:**	North		

Lat Under Cl Right: 30.60 **Left:** 42.90 **Lateral Type:** 6

Rating-Under Cl Horz/Vert: 6 **Total Horizontal Clearance (ft):** 91.90

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0064-0 **Meriwether** SUFF. RATING 90.20

Location & Geography

*	Structure I.D.No:	199-0064-0
	200 Bridge Information	01
*	6A Feature Int:	I-85 @ 033.13N
*	6B Critical Bridge:	0
*	7A Route Number Carried:	CR00417
*	7B Facility Carried:	FORREST ROAD
*	9 Location:	4 MI W OF LUTHERSVILLE
	2 DOT District:	3
	207 Year Photo:	2010
*	91 Inspection Frequency:	24 Date: 04/05/2010
	92A Fract Crit Insp Freq:	00 Date: 02/01/1901
	92B Underwater Insp Freq:	00 Date: 02/01/1901
	92C Other Spc. Insp Freq:	00 Date: 02/01/1901
*	4 Place Code:	00000
*	5 Inventory Route (O/U):	1
	Type:	4
	Designation:	1
	Number:	02016
	Direction:	0
*	16 Latitude: 33-12.8967	MMS Prefix:
*	17 Longitude: 84-49.2837	MMS Suffix: MP: 0.00
	98 Border Bridge: 000	%Shared: 00
	99 ID Number:	000000000000000
*	100 STRAHNET: 0	
	12 Base Highway Network:	1
	13A LRS Inventory Route:	1992041700
	13B Sub Inventory Route:	0
*	101 Parallel Structure:	N
*	102 Direction of Traffic:	2
*	264 Road Inventory Mile Post:	010.26
*	208 Inspection Area: 03	Initials: RJF
	Engineer's Initial: sgm	

*	104 Highway System:	0
*	26 Functional Classification:	07
*	204 Federal Route Type:	S No.: 02016
	105 Federal Lands Highway:	0
*	110 Truck Route:	0
	206 School Bus Route:	0
	217 Benchmark Elevation:	0000.00
	218 Datum:	0
*	19 Bypass Length:	06
*	20 Toll:	3
*	21 Maintenance:	01
*	22 Owner:	01
*	31 Design Load:	3
	37 Historical Significance:	5
	205 Congressional District:	03
	27 Year Constructed:	1973
	106 Year Reconstructed:	0000
	33 Bridge Median:	0
	34 Skew:	32
	35 Structure Flared:	0
	38 Navigation Control:	N
	213 Special Steel Design:	0
	267 Type of Paint:	5
*	42 Type of Service on:	1
	Under:	1
	214 Movable Bridge:	0
	203 Type Bridge:	O-O-M-O
	259 Pile Encasement:	3
*	43 Structure Type Main:	4 02
	45 No. Spans Main:	004
	44 Structure Type Appr:	0 00
	46 No. Spans Appr:	0000
	226 Bridge Curve Horz:	0 Vert: 1
	111 Pier Protection:	0
	107 Deck Structure Type:	1
	108 Wearing Surface Type:	1
	Membrance:	8
	Protection:	8

Signs & Attachments

	225 Expansion Joint Type:	01	
	242 Deck Drains:	0	
	243 Parapet Location:	3	
	Height:		2.00
	Width:		1.10
	238 Curb:		0.00 0
	239 Handrail:	7	7
*	240 Median Barrier Rail:	0	
	241 Bridge Median Height:		0.00
	Width:		0.00
*	230 Guardrail Loc Dir Rear:	3	
	Fwrd:	3	
	Oppo Dir Rear:	0	
	Fwrd:	0	
	244 Approach Slab:	3	
	224 Retaining Wall:	0	
	233 Posted Speed Limit:	45	
	236 Warning Sign:	0	
	234 Delineator:	1	
	235 Hazard Boards:	0	
	237 Utilities Gas:	00	
	Water:	00	
	Electric:	00	
	Telephone:	21	
	Sewer:	00	
	247 Lighting Street:	0	
	Naviagtion:	0	
	Aerial:	0	
*	248 County Continuity No.:	00	

* Location I.D. No.: 199-02016F-010.26N

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 199-0064-0 **Meriwether** SUFF. RATING 90.20

Programming Data

201 Project No.: I-85-1 (45) 33
202 Plans Available: 4
249 Prop. Proj. No. 0000000000000000
250 Approval Status: 0000
251 P.I. No.: 0000000
252 Contract Date: 02/01/1901
260 Seismic No.: 00000
75 Type Work: 00 0
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 000915 Year: 2027

Hydraulic Data

215 Waterway Data
Highwater Elev.: 0000.0 Year: 1900
Avg. Streambed Elev.: 0000.0 Freq.: 00
Drainage Area: 00000
Area Of Opening: 000000
113 Scour Critical: N
216 Water Depth: 00.0 Br. Height: 00.0
222 Slope Protection: 4
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type: 0
No. Barrels: 0
Width: 0.00 Height: 0.00
Length: 0 Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No.: 199-02016F-010.26N

Measurements

* 29 ADT: 000610 Year: 2007
109 % Trucks: 0
* 28 Lanes On: 02 Under: 04
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0118
* 49 Structure Length: 394
51 Br. Rwdy. Width: 32.00
52 Deck Width: 34.40
* 47 Tot. Horz. Cl: 32.00
50 Curb/Sdewlk Width: 0.00/0.00
32 Approach Rdwy Width: 021
* 229 Shoulder Width:
Rear Lt: 8.00 Type: 8 Rt: 8.00
Fwrd Lt: 8.00 Type: 8 Rt: 8.00
Pavement Width:
Rear: 21.00 Type: 2
Fwrd: 21.00 Type: 2
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 2
App. Rail End: 2
53 Minimum Cl.Over: 99 ' 99 "
Under: H 16 ' 09 "
* 228 Min. Vertical Cl
Act. Odm Dir: 99 ' 99 "
Oppo. Dir: 99 ' 99 "
Posted Odm. Dir: 00 ' 00 "
Oppo. Dir: 00 ' 00 "
55 Lateral Undercl. Rt: H 29.90
56 Lateral Undercl. Lt: 42.10
* 10 Max Min Vert Cl: 99 ' 99 " Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.50
Deck Thick Approach: 0.00
246 Overlay Thickness: 0.00
212 Year Last Painted: Sup: 1997 Sub: 0000

Ratings

65 Inventory Rating Method: 2
63 Inventory Rating Method: 2
66 Inventory Type: 2 Rating: 27
64 Operating Type: 2 Rating: 52
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 28 0
Type 3s2: 40 0
Timber: 36 0
Piggyback: 00 0
261 H Inventory Rating: 17
262 H Operating Rating: 33
67 Structural Evaluation: 6
58 Deck Condition: 7
59 Superstructure Condition: 7
* 227 Collision Damage: 0
60A Substructure Condition: 7
60B Scour Condition: N
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* 103 Temporary Structure: 0
232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type3s2: 00
Timber: 00
Piggyback: 00
253 Notification Date 02/01/1901
253 Fed Notify Date: 02/01/1901 0

GEORGIA DEPARTMENT OF TRANSPORTATION

X-Vertical Clearance Report

District: 3
Bridge Inspector: Bryon Patterson
Location ID: 199-02016F-010.26N
Structure ID: 199-0064-0

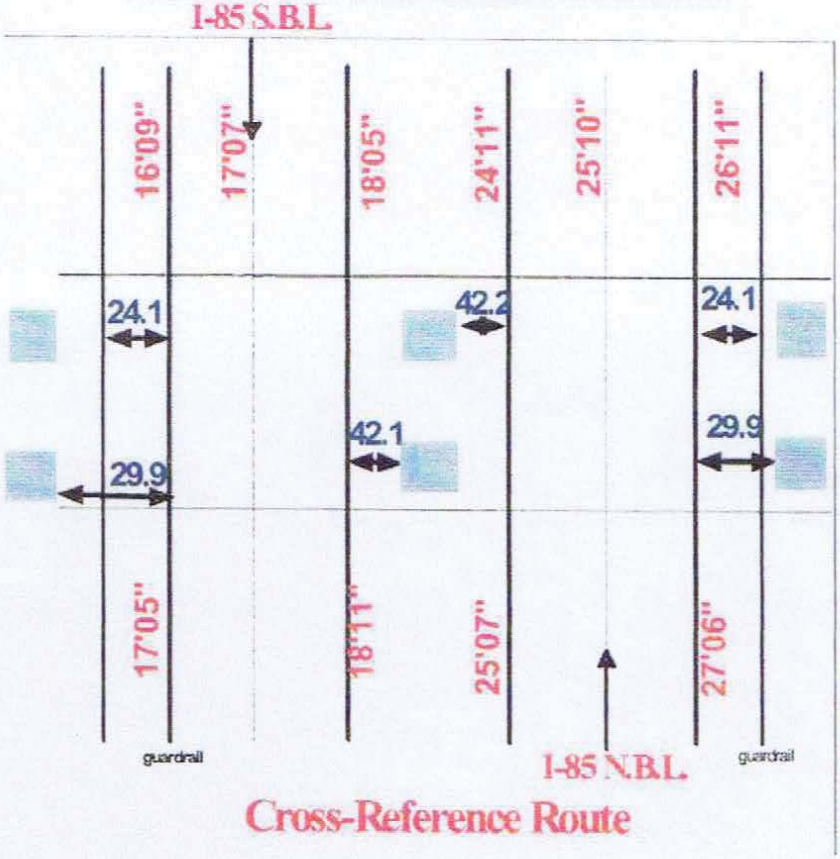
Inspection Date: 4/5/2010
Over: I-85 @ 033.13N
County: Meriwether
Road Name: FORREST ROAD

Inspection Area: 03
Skew: 32

---

4 LANE **VERTICAL CLEARANCE**

Show & Code Actual Measured Clearances.



XLocationID 199-00403D-033.13N
XRef ID: 199-0064-0-A

Min Clearance Over:	99-99	**Min Clearance Under:**	16-09	**Clearance Type:**	H
Act Min Vert. Odom:	24-11	**Post Min Vert. Odom:**	00-00		
Act Min Vert. Opp:	16-09	**Post Min Vert. Opp:**	00-00		
Max Min Vert. Clear:	25-10	**Direction:**	North		

Lat Under Cl Right: 29.90 **Left:** 42.10 **Lateral Type:** 7

Rating-Under Cl Horz/Vert: 7 **Total Horizontal Clearance (ft):** 90.20

ATTACHMENT 11

Response to FHWA Comments DTD November 01, 2012

Federal Highway Administration
Georgia Division

Route Slip

Date: 11/1/12

Routing Symbol: **GDOT**
Dave Peters – Office Of Design Policy and Support

	Per Your Request		For Your Signature
	For Your Information		Comment
	Per Our Conversation	XX	Take Appropriate Action
	Note and Return		Prepare Reply for Signature of
	Discuss With Me		For Your Use
	For your Approval		

Remarks:

District 3:
Project: MSL00-0003-00(246), Muscogee County

- Concept Report
  - The proposed project will provide 3 – 12ft lanes, 14ft. inside and outside shoulders (12 ft. paved), in each direction divided with a variable width (40ft – 64ft) depressed grass median; also includes the replacement of existing bridges over Beech Creek and Flat Creek.

From: Telephone: (404) 562-3638

Routing Symbol: FHWA GA Division - HPE
Christy Poon-Atkins, P.E. - FHWA

RECEIVED
NOV 6 2012
OFFICE OF PROGRAM CONTROL

U.S. Department of Transportation
Federal Highway Administration

Georgia Division

61 Forsyth Street SW
Suite 17T100
Atlanta, Georgia 30303
Phone 404-562-3630
Fax 404-562-3703
Georgia.fhwa.@fhwa.dot.gov

November 1, 2012

In Reply Refer To:
HPE-GA

Mr. Keith Golden, P.E., Commissioner
Georgia Department of Transportation
One Georgia Center
600 West Peachtree Street, NW
Atlanta, GA 30308

Dear Commissioner Golden:

As noted in the project description, Project MSL00-0003-00(246) is expected to provide 3 – 12ft lanes, 14ft. inside and outside shoulders (12 ft. paved), in each direction divided with a variable width (40ft – 64ft) depressed grass median; also includes the replacement of existing bridges over Beech Creek and Flat Creek. Furthermore, the project involves jacking several other bridges along I-85 in Troup and Meriwether Counties. The project area begins north of SR 109 in Troup County and ends north of Forest Road in Meriwether County for a total length of 14.947 miles.

The Division Office has further reviewed the scope of work associated with the proposed pavement section along the corridor. As noted in the Concept Report, the project proposes to add the new travel lane and inside shoulder at the standard 2% cross slope, reconstruct the outside shoulder at the standard 2% cross slope, and leave the existing lanes at the current cross slope. With respect to retaining the existing pavement along the project corridor, the Division Office has concerns with the adequacy of the pavement to facilitate the proposed traffic through the duration of the design. It is recommended that the decision to retain the existing pavement be re-evaluated to adequately support the proposed traffic and the area needs.

Therefore, due to the proposed pavement section incorporated in the project concept, the Division Office does not concur with the concept of the proposed project, at this time. Please inform the Division Office of the efforts that GDOT determines to be appropriate in providing adequate justification for the proposed scope of work on the proposed project.

Please provided follow-up to confirm that the item identified above have been addressed prior to moving forward re-processing the proposed project for concept approval. If you have any questions or comments, please contact Christy Poon-Atkins, P.E. at (404) 562-3638.

Sincerely,

Rodney Barry, P.E.
Division Administrator

R.K. SHAH & ASSOCIATES, INC.

• ENGINEERS •
TRANSPORTAION / SITE / CIVIL

ESTABLISHED 1988

Raju (Rajendrakumar) K. Shah, P.E.

June 17, 2104

Mr. Albert Shelby
State Program Delivery Engineer
Office of Program Delivery
Georgia Department of Transportation
One Georgia Center
600 West Peachtree Street, NW, 25th Floor
Atlanta, Georgia 30308

ATT: Mr. Adam Smith, P.E., Project Manager

Ref: MSL00-0003-00(246) Troup and Meriwether Counties, P.I. 00003246

Sub: Response to FHWA comments dated November 1, 2012 on Revised Concept Report.

Dear Ms .Rice-Singleton:

With respect to FHWA comments dated November 01, 2012 on Revised Concept Report please see our response below.

1. The Division Office has further reviewed the scope of work associated with the proposed pavement section along the corridor. As noted in the Concept Report, the project proposes to add the new travel lane and inside shoulder at the standard 2% cross slope, reconstruct the outside shoulder at the standard 2% cross slope, and leave the existing lanes at the current cross slope. With respect to retaining the existing pavement along the project corridor, the Division Office has concerns with the adequacy of the pavement to facilitate the proposed traffic through the duration of the design. It is recommended that the decision to retain the existing pavement be re-evaluated to adequately support the proposed traffic and the area needs.

   Response: *The Georgia Department of Transportation office of Materials and Testing has performed Pavement Evaluation. Please attached Exhibit # 1 for "Pavement Evaluation Summary" and recommendation. Please see attached Exhibit # 2 – Typical Section for the inside widening of SR 403/I-85 and overlay of existing pavement which incorporates Office of Materials and Testing recommendation.*

Please contact Raju K. Shah at 770-436-5070 or raju.shah@rkshah.com for any additional information/clarification

Yours very truly,

R. K. SHAH & ASSOCIATES, INC.

Raju (Rajendrakumar) K. Shah, P.E.
Project Manager

1280 WINCHESTER PARKWAY • SUITE 240 • SMYRNA • GEORGIA 30080
TELEPHONE: 770/436-5070 • FAX: 770/436-5410
EMAIL: RAJU.SHAH@RKSHAH.COM • WEBSITE: WWW.RKSHAH.COM

EXHIBIT 1

PAVEMENT EVALUATION SUMMARY and RECOMMENDATION

DEPARTMENT OF TRANSPORTATION

STATE OF GEORGIA

INTERDEPARTMENTAL CORRESPONDENCE

FILE MSL00-0003-00(246)
Troup/Meriwether

PI No. 0003246

OFFICE Materials and Testing
Forest Park, GA

DATE June 14, 2013

FROM Charles A. Hasty, P. E., State Materials Engineer

TO Genetha Rice-Singleton, Office of Program Delivery
Attention: Charner Rodgers Register, Project Manager

SUBJECT Pavement Evaluation Summary
I-85 from north of SR 109/Troup (MP 18.2) to north of CR 417/Forest Road (MP 33.2)/Meriwether

As requested, a Pavement Evaluation Summary has been performed on the aforementioned project. The results of this work are attached. With respect to retaining the existing pavement along the project corridor, this office (OMAT) has determined that the existing pavement is inadequate to facilitate the proposed traffic through the duration of the design.

If you should have any further questions please contact Palliambil Geetha of the Geotechnical, Environmental & Pavement Design Bureau at (404) 608-4774.

CAH: PRG

Attachments
- Pavement Evaluation Summary
- Full-depth Design
- Overlay Design
- Project Location Map

Copy: Thomas Howell, P.E., District Engineer, Thomaston
James Page, State Concrete Engineer, Forest Park
Sheila Hines, State Bituminous Construction Engineer, Forest Park
File

PAVEMENT EVALUATION SUMMARY

For

MSL00-0003-00(246) Troup/Meriwether Counties
PI No. 0003246

1. *LOCATION / DESCRIPTION*

Project MSL00-0003-00(246) is for the proposed inside widening of 15.0 miles of SR 403/I-85 from north of SR 109 (MP 18.2) in Troup County to north of CR 417/Forest Road (MP 33.2) overpass bridge in Meriwether County. When completed, this project will provide three 12 foot lanes, 14 feet inside and outside shoulders in each directions, and a divided variable median. The project is located in Troup and Meriwether Counties within the following station limits:

Mile Post to Mile Post	Location
18.2± to 33.2±	SR 403/I-85

2. *PAVEMENT CONDITION SUMMARY*

SR 403/I-85

Visually, the existing pavement on SR 403/I-85 is in fair to poor condition. Based on the distress survey conducted, 95% of the slabs were distressed and 65% were distressed more than half of the slab. Transverse cracking, corner breaks and partial slab replacements were also observed during the field investigation of this project. Structurally, the existing pavement is also in poor condition. Four out of five mainline cores recovered were cracked from top to bottom.

For the mainline sections, the recommendation is to overlay the existing pavement. The full depth widening sections should be consistent with the pavement type of the overlay. For the outside shoulder, the recommendation is full depth reconstruction to be consistent with mainline and the full depth widening sections.

The preferred recommendation is to utilize the existing PCC pavement as base and to overlay with PCC pavement with an HMA pavement interlayer. The corresponding full depth sections should consist of PCC pavement over HMA pavement interlayer over GAB. This preferred recommendation is presented in Section 4.

An alternative recommendation is to utilize the existing PCC pavement as base and to overlay with HMA pavement. The corresponding full depth sections should consist of HMA pavement over GAB. This alternative recommendation is presented in Section 5.

3. *PAVEMENT RECOMMENDATION SUMMARY*

The pavement recommendation summary for this project is as follows:

Location	Construction Limits	Construction Recommendation	Description
SR 403/I-85	MP 18.2 ± to MP 33.2±	Full-depth & Overlay	Full-depth construction for widening. Overlay due to existing conditions

4. *PREFERRED RECOMMENDATION*

The following pavement sections are preferred for this project:

Widened Areas of I-85, Full-Depth Rigid Pavement				
PAY ITEM NUMBER	MATERIAL	COURSE	THICKNESS	SPREAD RATE
430-0220	Portland Cement Concrete (Class 1)	Surface	12 inches	N/A
402-3190	19 mm Superpave	Asphalt Interlayer	3 inches	330 lbs/yd^2
310-1101	Graded Aggregate Base	Base	12 inches	N/A

Existing Pavement Areas of I-85, Overlay Pavement Design				
PAY ITEM NUMBER	MATERIAL	COURSE	THICKNESS	SPREAD RATE
430-0220	Portland Cement Concrete (Class 1)	Surface	12 inches	N/A
402-3190	19 mm Superpave	Asphalt Interlayer	3 inches	330 lbs/yd^2
Existing Pavement				

5. *ALTERNATIVE RECOMMENDATION*

The following pavement sections are an alternative for this project to the preferred sections noted in Section 4:

SR 403/I-85 - Full-depth for widening				
Pay Item Number	**Material**	**Course**	**Thickness**	**Spread Rate**
400-3624	12.5 mm PEM	Drainage	1.25 inches	135 lbs/yd^2
400-3604	12.5 mm SMA	Surface	2.0 inches	220 lbs/yd^2
402-3190	19 mm Superpave	Binder	2.0 inches	220 lbs/yd^2
402-3121	25 mm Superpave	Asphalt Base	13.0 inches	1430 lbs/yd^2
310-1101	Graded Aggregate Base	Base	12.0 inches	N/A

SR 403/I-85 - Full-depth for widening				
Pay Item Number	**Material**	**Course**	**Thickness**	**Spread Rate**
400-3624	12.5 mm PEM	Drainage	1.25 inches	135 lbs/yd^2
400-3604	12.5 mm SMA	Surface	2.0 inches	220 lbs/yd^2
402-3190	19 mm Superpave	Binder	2.0 inches	220 lbs/yd^2
402-3121	25 mm Superpave	Asphalt Base	11.0 inches	1210 lbs/yd^2
Existing Pavement				

6. *PAVEMENT DISTRESSES*

Except for the following, no other distresses were encountered during the field investigation of this project:

Longitudinal Cracking Levels 1 and 2 longitudinal cracking were observed at several locations on SR 403/I-85.

Transverse Cracking Level 1 and 2 transverse cracking were observed along the mainline.

Loss of section Loss of sections were observed at several locations on SR 403 / I85. Spalling at the joints and corner breaks were also observed along the mainline.

7. *CORES*

Cores were recovered from 5 locations using a 4-inch bit in the travel lanes of this project to determine the thickness and condition of the existing pavement section. The results of this work are presented in the table below:

Core Number	Location	Milepost	Core Length (inches)	Core Condition	Underlying Material
1	I-85 SB lane	33.0±	15.50 PCC	Core cracked 9.5 inches from top to bottom	Sand/Clay
2	I-85 SB lane	27.2±	9.25 PCC	Core cracked from top to bottom	Sand/Clay
3	I-85 SB lane	22.0±	10.00PCC	Good	1.25 inches AC
4	I-85 NB lane	23.9±	10.25PCC	Core cracked from top to bottom	N/A
5	I-85 NB lane	29.2±	10.0 PCC	Core cracked from top to bottom	Sand/Clay
6	I-85 NB Shoulder	29.2±	7.25 PCC	Good	Sand/Clay

8. *COPACES*

No COPACES information is included with this evaluation.

9. *OTHER INFORMATION*

- The final Soil Survey Summary has not been prepared for this project. The attached design uses typical values for Troup County.
- The pavement designs are based on traffic volumes that have been approved by the Office of Planning.

Reported By: **Palliambil Geetha**

Reviewed By: _____

A. J. Jubran, P. E.
State Pavement Engineer

Rigid Pavement Design Analysis

Based on AASHO Interim Guide for Design of Pavement Structures

P.I. No.	0003246	Project No.	MSL00-0003-00(246)	County	Troup/Meriwether
Description	I-85 FM N of SR 109/Troup to N of CR 417	Location	Troup/Meriwether	Type Section	JPCP
Begin Project	M.P.18.2	End Project	M.P.33.2	Project Length	15.0 miles

Traffic Data

Begin Design Year	2013	Begin one way AADT, VPD	47850
End Design Year	2033	Ending one way AADT, VPD	77100
Total Truck %	24	Mean one way AADT, VPD	62475

Design Loading

Mean one way AADT		LDF		Volume, %			ESAL Factor	
62475	*	80	*	76	Vehicles	*	0.004	152
62475	*	80	*	5	SU	*	0.500	1,250
62475	*	80	*	19	MU	*	2.680	25,450
				Total Daily ESAL's				26,852
Total Design Period ESALs			=	196,019,600				

Design Data

Terminal Serviceability, (Pt)	2.5	Working Stress	450 psi	Soil Support Value	3
Subgrade Modulus, k	150	Subbase Modulus, k_1	245	Subbase Modulus, k_2	270
Trial Depth of PCC Pavement, inches		12.00	Calculated Stress from Equation, psi		762.2
% Overstressed	69.4	% Underdesigned	41.0	Balanced Thickness	15.9

Recommended Rigid Pavement Structure

12 inches Plain Portland Cement with 1.5 inch diameter dowel bars

3 inches of 19 mm Superpave Asphaltic Concrete Interlayer

12 inches Graded Aggregate Base

Prepared By Palliambil Geetha Date 6/6/2013

Recommended By _____ Date _____

Office Head / District Engineer

Approved By _____ Date _____

State Pavement Engineer

Flexible Pavement Design Analysis

PI Number	0003246	**County(s)**	Troup (northwest) & Meriwether (southeast)
Project Number	MSL00-0003-00(246)	**Design Name**	I-85 FM N of SR 109/Troup to N of CR 417
Project Description	I-85 FM North of SR 109/Troup to North of CR 417/Meriwether		

Traffic Data (AADTs are one-way)						**Miscellaneous Data**	
Initial Design Year	2013	**Initial AADT, VPD**	47,850	**24 Hour Truck %**	24.00	**Lanes in one direction**	3
Final Design Year	2033	**Final AADT, VPD**	77,100	**SU Truck %**	5.00	**Curb & Gutter/Barrier**	No
		Mean AADT, VPD	62,475	**MU Truck %**	19.00		

Design Data					
Lane Distribution Factor (%)	80.00	**Soil Support Value**	3.00	**Single Unit ESAL**	0.40
Terminal Serviceability Index	2.50	**Regional Factor**	1.80	**Multiple Unit ESAL**	1.50
		User Defined 18-KIP ESAL	0.00	**Calculated 18-KIP ESAL**	1.27
Non-Standard Value Comment					

Design Loading (Calculated 18-KIP ESAL)					
Mean AADT, VPD	**LDF (%)**	**Vehicle Type**	**Volume (%)**	**ESAL Factor**	**Daily ESAL**
62,475	80.00	Single Unit Truck	5.00	0.40	1,000
		Multi Unit Truck	19.00	1.50	14,245
				Total Daily ESALs	15,245
				Total Design Period ESALs	111,288,500

Proposed Flexible Full Depth Pavement Structure				
Course	**Material**	**Thickness (inches)**	**Structural Coefficient**	**Structural Value**
Course 1	12.5 mm PEM	135 lbs/sy	0.0000	0.00
Course 2	12.5 mm SMA	2.00	0.4400	0.88
Course 3	19 mm Superpave	2.00	0.4400	0.88
Course 4	25 mm Superpave	0.50	0.4400	0.22
		12.50	0.3000	3.75
Course 5	Graded Aggregate Base	12.00	0.1600	1.92
Required SN	8.13	**Proposed pavement is 5.86% Underdesigned**	**Proposed SN**	7.65

Design Remarks	Full-depth design for I-85

Prepared By 6/14/2013 9:35 AM

Palliambil Geetha **Date**

Recommended By

Office Head **Date**

Approved By

State Pavement Engineer **Date**

Filename: R:\PavementDesign\Project\PMB Active Projects\Counties - O thru Z\Troup\0003246PES\Designs_&_Reports\0003246_FDD - Copy.xlsm
GDOT Pavement Design Tool - Version 1.0 August 21, 2012

Flexible Pavement Design Analysis

PI Number	0003246	**County(s)**	Troup (northwest) & Meriwether (southeast)
Project Number	MSL00-0003-00(246)	**Design Name**	I-85 FM N of SR 109/Troup to N of CR 417
Project Description	I-85 FM N of SR 109/Troup of N of CR 417/Meriwether		

Traffic Data (AADTs are one-way)						**Miscellaneous Data**	
Initial Design Year	2013	**Initial AADT, VPD**	47,850	**24 Hour Truck %**	24.00	**Lanes in one direction**	3
Final Design Year	2033	**Final AADT, VPD**	77,100	**SU Truck %**	5.00	**Curb & Gutter/Barrier**	No
		Mean AADT, VPD	62,475	**MU Truck %**	19.00	**Milling Depth (inches)**	0.00

Design Data					
Lane Distribution Factor (%)	80.00	**Soil Support Value**	3.00	**Single Unit ESAL**	0.40
Terminal Serviceability Index	2.50	**Regional Factor**	1.80	**Multiple Unit ESAL**	1.50
		User Defined 18-KIP ESAL	0.00	**Calculated 18-KIP ESAL**	1.27
Non-Standard Value Comment					

Design Loading (Calculated 18-KIP ESAL)					
Mean AADT, VPD	LDF (%)	Vehicle Type	Volume (%)	ESAL Factor	Daily ESAL
62,475	80.00	Single Unit Truck	5.00	0.40	1,000
		Multi Unit Truck	19.00	1.50	14,245
				Total Daily ESALs	15,245
				Total Design Period ESALs	111,288,500

Proposed Flexible Overlay Pavement Structure				
Course	**Material**	**Thickness (inches)**	**Structural Coefficient**	**Structural Value**
Overlay 1	12.5 mm PEM	135 lbs/sy	0.0000	0.00
Overlay 2	12.5 mm SMA	2.00	0.4400	0.88
Overlay 3	19 mm Superpave	2.00	0.4400	0.88
Overlay 4	25 mm Superpave	0.50	0.4400	0.22
		10.50	0.3000	3.15
Existing 1	Portland Cement Concrete (fair)	10.00	0.3000	3.00
Required SN	8.13	**Proposed pavement is 0.04% Overdesigned**	**Proposed SN**	8.13

Design Remarks	Overlay design for I-85

Prepared By 6/14/2013 9:34 AM

Palliambil Geetha **Date**

Recommended By

Office Head **Date**

Approved By

State Pavement Engineer **Date**

Filename: R:\PavementDesign\Project\PMB Active Projects\Counties - O thru Z\Troup\0003246PES\Designs_&_Reports\0003246_ODI.xlsm

GDOT Pavement Design Tool - Version 1.0 August 21, 2012

LOCATION MAP

LCCA SUMMARY REPORT

MSL-0003-00 (246)
0003246
I-85 (SR 403) Widening
Troup & Meriwether County, Georgia

I. PROJECT AGENCY COSTS

Values in this section represent Agency Costs only. All values are calculated on per mile per both directions basis. Below are the Total Present Value Costs for a 50-year Analysis Period and a 40-year Analysis Period for each alternative. The values represent costs per mile.

Net Present Value / Total Present Value Costs:

Net Present Value (NPV) is the discounted monetary value of Present Value benefits minus Present Value costs ($PV_{benefits} - PV_{costs}$). Because the benefits of keeping the roadway above some pre-established terminal service ability level are the same for all design alternatives, the benefits component of above equation is negated thus the analysis is based solely on the costs.

Below are the Total Present Value Costs for a 40-year Analysis Period for each alternative. A 50-year Analysis Period is also shown for purpose of comparison. The values represent costs per mile.

	50-Year Analysis Period	40-Year Analysis Period
ALTERNATIVE A-HMA Full Depth Mainline Flexible Option w GAB	$6,016,569	$5,752,966
ALTERNATIVE B-HMA Full Depth Mainline Flexible Option w RCC	$6,365,049	$6,101,446
ALTERNATIVE C-PCC Full Depth Mainline Rigid Option w RCC	$5,758,995	$5,610,802

Annualized Costs:

Annualized Costs represents the Net Present Value (NPV) of all discounted cost and benefits of an alternative as if they were to occur uniformly throughout the analysis period.

Below are the Annualized Costs for a 40-year Analysis Period for each alternative. A 50-year Analysis Period is also shown for purpose of comparison. The values represent costs per mile.

	50-Year Analysis Period	40-Year Analysis Period
ALTERNATIVE A-HMA Full Depth Mainline Flexible Option w GAB	$280,073	$290,660
ALTERNATIVE B-HMA Full Depth Mainline Flexible Option w RCC	$296,294	$308,266
ALTERNATIVE C-PCC Full Depth Mainline Rigid Option w RCC	$268,082	$283,477

Total Agency Costs Calculations:

Total Agency Costs were based on the quantities of materials, labor and time required for Initial Construction and Maintenance.

Below are the Total Agency Costs per alternative per construction event. The costs are shown in nominal US dollars. The nominal costs are discounted at 4 %.

	ALTERNATIVE A-HMA Full Depth Mainline Flexible Option w GAB	ALTERNATIVE B-HMA Full Depth Mainline Flexible Option w RCC	ALTERNATIVE C-PCC Full Depth Mainline Rigid Option w RCC							
Year 2027	$13,138,883	$14,303,851	$16,357,826							
Year 2028										
Year 2029										
Year 2030										
Year 2031										
Year 2032										
Year 2033										
Year 2034										
Year 2035										
Year 2036										
Year 2037	$3,147,963	$3,147,963								
Year 2038										
Year 2039										
Year 2040										
Year 2041										
Year 2042										
Year 2043										
Year 2044										
Year 2045										
Year 2046										
Year 2047	$2,342,463	$2,342,463	$2,910,545							
Year 2048										
Year 2049										
Year 2050										
Year 2051										
Year 2052										
Year 2053										
Year 2054										
Year 2055										
Year 2056										
Year 2057	$1,742,992	$1,742,992								
Year 2058										
Year 2059										
Year 2060										
Year 2061										
Year 2062										
Year 2063										
Year 2064										
Year 2065										
Year 2066										
Year 2067										
A (Initial)	$13,138,883	$14,303,851	$16,357,826							
B (Maint)	$7,233,419	$7,233,419	$2,910,545	$0	$0	$0	$0	$0	$0	$0

Initial Construction Costs:

The initial construction costs and the maintenance costs were determined by grouping calculated item costs appropriately. The GDOT Item Mean Summary and current market prices from the Office of Engineering Services were the basis for the calculations.

Initial costs were calculated based primarily on pavement designs but other items such as Bituminous Tack Coat and Rumble Strips were also considered. Listed below are the alternatives with their corresponding initial costs. The costs are not discounted because they are based on the most current market prices and are associated with initial construction.

	Cost per mile	Total Cost
ALTERNATIVE A-HMA Full Depth Mainline Flexible Option w GAB	$3,930,267	$13,138,883
ALTERNATIVE B-HMA Full Depth Mainline Flexible Option w RCC	$4,278,747	$14,303,851
ALTERNATIVE C-PCC Full Depth Mainline Rigid Option w RCC	$4,893,158	$16,357,826

Maintenance Costs:

For Full Depth Reconstruction of JPC pavements, an initial service life of 20 years was used with maintenance assumed to occur in 20 year intervals after its initial service life. For pavements overlaid with JPC, an initial service life of 16 years was used with maintenance assumed to occur in 16 year intervals after its initial service life. For Full Depth Reconstruction of HMA pavements, an initial service life of 10 years was used with maintenance assumed to occur in 10 year intervals after its initial service life. For pavements overlaid with HMA, an initial service life of 8 years was used with maintenance assumed to occur in 8 year intervals after its initial service life.

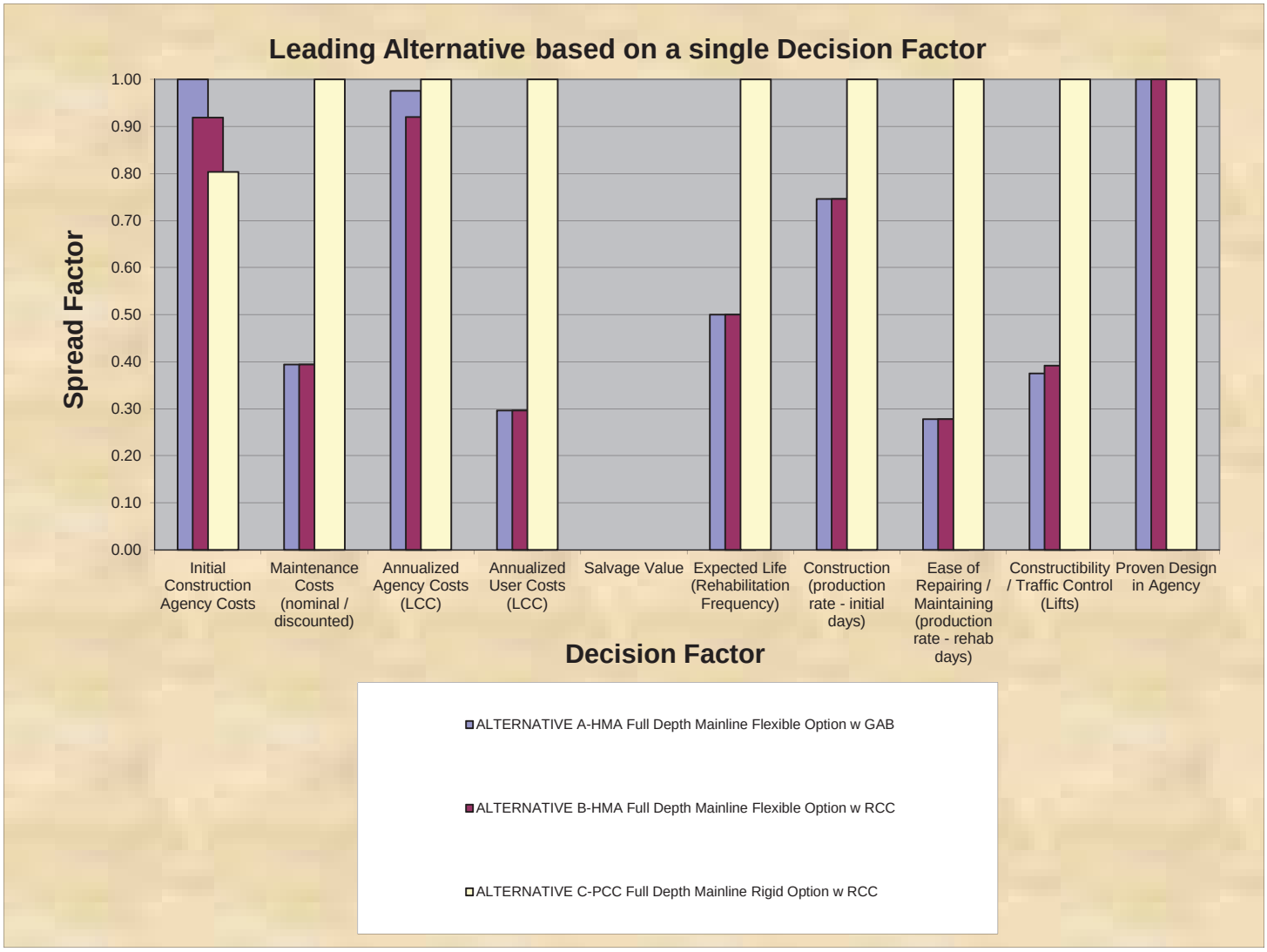
Listed below are the net present maintenance costs for a 40-year analysis period. A 50-year analysis period is also shown for purpose of comparison. These costs were discounted at the rate of 4 %. The costs are per mile per both directions.

	50-Year Analysis Period	40-Year Analysis Period
ALTERNATIVE A-HMA Full Depth Mainline Flexible Option w GAB	$2,086,302	$1,822,699
ALTERNATIVE B-HMA Full Depth Mainline Flexible Option w RCC	$2,086,302	$1,822,699
ALTERNATIVE C-PCC Full Depth Mainline Rigid Option w RCC	$1,045,175	$717,644

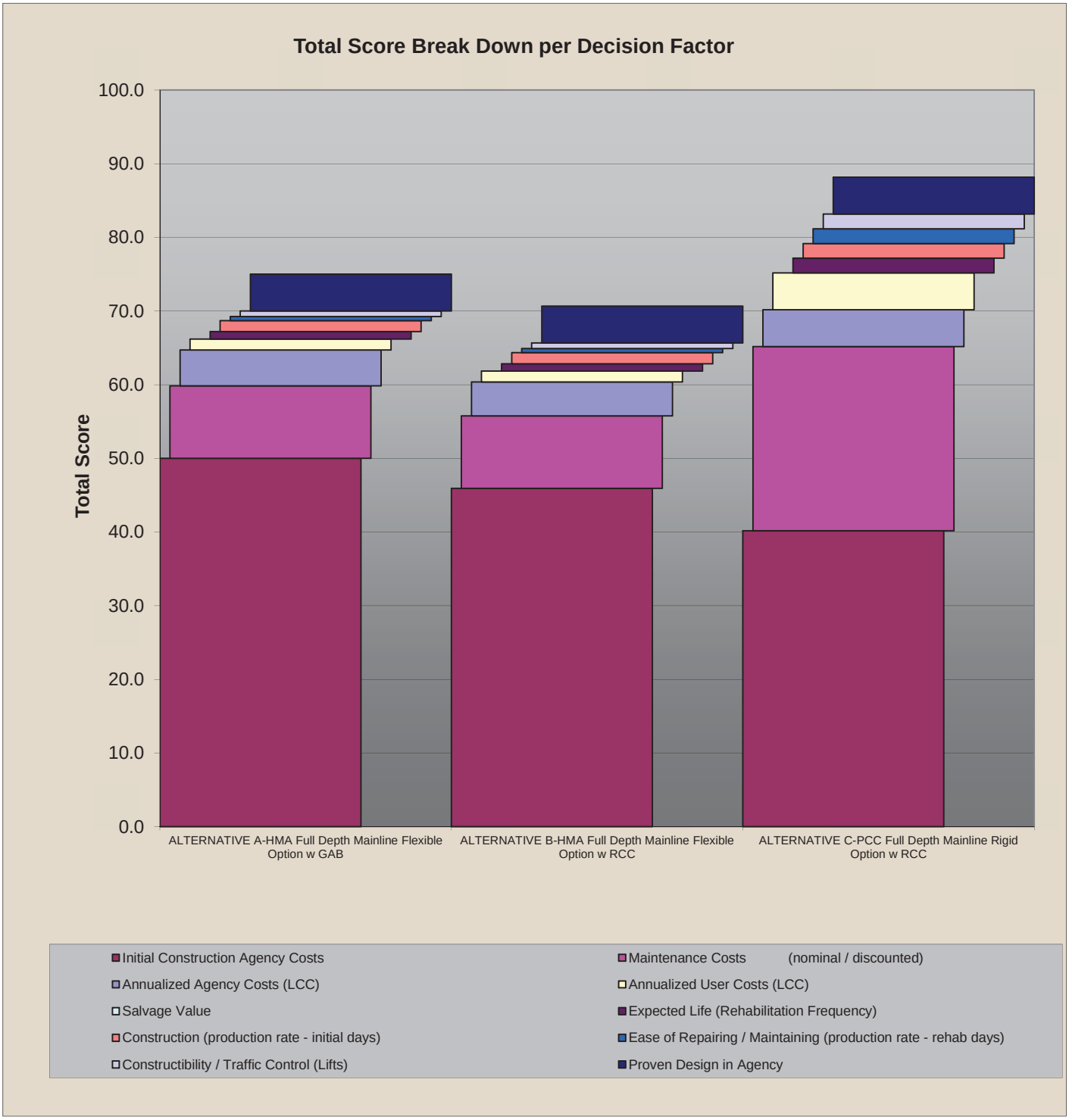
DECISION MATRIX

	DECISION FACTOR										Total Score	Rank
	Initial Construction Agency Costs	**Maintenance Costs** (nominal / discounted)	**Annualized Agency Costs** (LCC)	**Annualized User Costs** (LCC)	**Salvage Value**	**Expected Life** (Rehabilitation Frequency)	**Construction** (production rate - initial days)	**Ease of Repairing / Maintaining** (production rate - rehab days)	**Constructibilit y / Traffic Control** (Lifts)	**Proven Design in Agency**		
Relative Importance	50%	25%	5%	5%	2%	2%	2%	2%	2%	5%		
ALTERNATIVE A-HMA Full Depth Mainline Flexible Option w GAB	1.00 50.0	0.39 9.8	0.98 4.9	0.30 1.5	0.00 0.0	0.50 1.0	0.75 1.5	0.28 0.6	0.38 0.8	1.00 5.0	**75.0**	**2**
ALTERNATIVE B-HMA Full Depth Mainline Flexible Option w RCC	0.92 45.9	0.39 9.8	0.92 4.6	0.30 1.5	0.00 0.0	0.50 1.0	0.75 1.5	0.28 0.6	0.39 0.8	1.00 5.0	**70.7**	**3**
ALTERNATIVE C-PCC Full Depth Mainline Rigid Option w RCC	0.80 40.2	1.00 25.0	1.00 5.0	1.00 5.0	0.00 0.0	1.00 2.0	1.00 2.0	1.00 2.0	1.00 2.0	1.00 5.0	**88.2**	**1**

The figure below represents a graphical representation of the advantages / disadvantages that each alternative has over each other per decision factor.



The figure below represents a graphical representation of the total score of each alternative. Furthermore, the figure illustrates the contribution of each decision factor to the total score of each alternative.



V. APPENDICES

APPENDIX A: Pavement Designs - Travel Lanes:

Pavement Designs were created for each alternative analyzed for life cycle costs. Below is each alternative with their corresponding pavement design for the travel lanes.

	FULL DEPTH SECTIONS	OVERLAID SECTIONS
ALTERNATIVE A : Full Depth HMA -- Flexible Option w GAB 12 feet - Full Depth width 24 feet - Overlaid width	1.25 inches --- 12.5 mm PEM 2 inches --- 12.5 mm SMA 8 inches --- 19 mm Superpave 1.25 inches --- OGI 12 inches --- Graded Aggregate Base	1.25 inches --- 12.5 mm PEM 2 inches --- 12.5 mm SMA 5.5 inches --- 19 mm Superpave 1.25 inches --- OGI
ALTERNATIVE B : Full Depth HMA -- Flexible Option w RCC 12 feet - Full Depth width 24 feet - Overlaid width	1.25 inches --- 12.5 mm PEM 2 inches --- 12.5 mm SMA 8 inches --- 19 mm Superpave 1.25 inches --- OGI 7 inches --- RCC	1.25 inches --- 12.5 mm PEM 2 inches --- 12.5 mm SMA 5.5 inches --- 19 mm Superpave 1.25 inches --- OGI
ALTERNATIVE C : Full Depth PCC -- Rigid Option w RCC 12 feet - Full Depth width 24 feet - Overlaid width	10 inches --- PCC 2 inches --- 19 mm Superpave 7 inches --- RCC --- ---	10 inches --- PCC 3.5 inches --- 19 mm Superpave --- ---

APPENDIX B: Pavement Designs - Shoulders:

Pavement Designs were created for each alternative analyzed for life cycle costs. Below is each alternative with their corresponding pavement design for the inside and outside shoulders.

	INSIDE SHOULDERS	OUTSIDE SHOULDERS
ALTERNATIVE A : Full Depth HMA -- Flexible Option w GAB 12 feet - Width of Inside Shoulders 12 0/1 feet - Width of Outside Shoulders	1.25 inches --- 12.5 mm PEM 2 inches --- 12.5 mm Superpave 8 inches --- 19 mm Superpave 1.25 inches --- OGI 12 inches --- Graded Aggregate Base	1.25 inches --- 12.5 mm PEM 2 inches --- 12.5 mm Superpave 8 inches --- 19 mm Superpave 1.25 inches --- OGI 12 inches --- Graded Aggregate Base
ALTERNATIVE B : Full Depth HMA -- Flexible Option w RCC 12 feet - Width of Inside Shoulders 12 0/1 feet - Width of Outside Shoulders	1.25 inches --- 12.5 mm PEM 2 inches --- 12.5 mm Superpave 8 inches --- 19 mm Superpave 1.25 inches --- OGI 7 inches --- RCC	1.25 inches --- 12.5 mm PEM 2 inches --- 12.5 mm Superpave 8 inches --- 19 mm Superpave 1.25 inches --- OGI 7 inches --- RCC
ALTERNATIVE C : Full Depth PCC -- Rigid Option w RCC 12 feet - Width of Inside Shoulders 12 0/1 feet - Width of Outside Shoulders	10 inches --- PCC 2 inches --- 19 mm Superpave 7 inches --- RCC --- ---	10 inches --- PCC 2 inches --- 19 mm Superpave 7 inches --- RCC --- ---

ALTERNATIVE A

Mainline Pavement Type HMA
Mainline Pavement Method Full Depth
More Description Flexible Option w GAB

ROADWAY PAVEMENT

TRAVEL LANES : New Construction for Widening	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
12.5 mm PEM	400-3624	1.25	484.00	484.00	TN	$105.77	$ 102,385.36	$ 342,274.26
12.5 mm SMA	400-3604	2.00	774.40	774.40	TN	$94.43	$ 146,253.18	$ 488,924.39
19 mm Superpave	402-3190	8.00	3,097.60	3,097.60	TN	$64.86	$ 401,820.67	$ 1,343,286.51
OGI	415-5000	1.25	7,040.00	7,040.00	SY	$3.75	$ 52,800.00	$ 176,510.40
Graded Aggregate Base	310-5120	12.00	7,040.00	7,040.00	SY	$19.75	$ 278,080.00	$ 929,621.44
		24.5					$ 981,339.22	$ 3,280,617.00

TRAVEL LANES : New Construction for Exceptions	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
		0					$ -	$ -

TRAVEL LANES : Overlay Construction	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
12.5 mm PEM	400-3624	1.25	968.00	968.00	TN	$105.77	$ 204,770.72	$ 684,548.52
12.5 mm SMA	400-3604	2.00	1,548.80	1,548.80	TN	$94.43	$ 292,506.37	$ 977,848.79
19 mm Superpave	402-3190	5.50	4,259.20	4,259.20	TN	$64.86	$ 552,503.42	$ 1,847,018.95
OGI	415-5000	1.25	7,040.00	7,040.00	SY	$3.75	$ 52,800.00	$ 176,510.40
		10					$ 1,102,580.51	$ 3,685,926.65

INSIDE SHOULDER - Full Depth Asphalt	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
12.5 mm PEM	400-3624	1.25	60.50	60.50	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	774.40	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190	8.00	3,097.60	3,097.60	TN	$64.86	$ 401,820.67	$ 1,343,286.51
OGI	415-5000	1.25	7,040.00	7,040.00	SY	$3.75	$ 52,800.00	$ 176,510.40
Graded Aggregate Base	310-5120	12.00	7,040.00	7,040.00	SY	$19.75	$ 278,080.00	$ 929,621.44
		24.5					$ 863,083.74	$ 2,885,288.94

OUTSIDE SHOULDER - Full Depth Asphalt	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
12.5 mm PEM	400-3624	1.25	60.50	60.50	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	774.40	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190	8.00	3,097.60	3,097.60	TN	$64.86	$ 401,820.67	$ 1,343,286.51
OGI	415-5000	1.25	7,040.00	7,040.00	SY	$3.75	$ 52,800.00	$ 176,510.40
Graded Aggregate Base	310-5120	12.00	7,040.00	7,040.00	SY	$19.75	$ 278,080.00	$ 929,621.44
		24.5					$ 863,083.74	$ 2,885,288.94

OTHER & PREPARATORY WORK

		Include (y/n)	Quantity (per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control	150-1010							
Staging								
Roadway Bridges								
Raise Bridge								
Roadwork with Raise Bridge								
New Ramp Construction								
Grading	210-0200							
Waterproofing Joints & Cracks	445-0500	y	7,392.00	148,268.74	LF	$2.27	$ 100,679.04	$ 336,570.03
Remove Roadway Slab	609-1000							
Remove Roadway Slab (Exceptions)	609-1000							
Remove Existing Concrete prior to Overlay	609-1000							
Full Depth Slab Replacement prior to Overlay	452-1000							
Mill Asphalt								
Mill Asphalt (Exceptions)								
Joint Reinforcement Fabric								
Bitum Tack Coat (new pavement)	413-1000	y	1,548.80	3,097.60	GL	$2.77	$ 8,580.35	$ 28,684.12
Bitum Tack Coat (exceptions)	413-1000	y						
Bitum Tack Coat (overlay section)	413-1000	y	1,971.20	3,942.40	GL	$2.77	$ 10,920.45	$ 36,507.06
Vegetation Removal								
Barrier Wall								
Striping / Signage								
White Markings-Not Included								
Longitudinal Drainage								
Misc: (Guardrail, Soundwalls, EC, etc)								
							$ 120,179.84	$ 401,761.21
INITIAL COSTS (Roadway, Other & Preparatoy Work)							**$ 3,930,267.04**	**$ 13,138,882.73**

ALTERNATIVE A

REHABILITATION YEAR 10

TRAVEL LANES			Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Mill Asphalt	432-0209	2 1/4	7,040.00	42,240.00	SY	$2.25	$ 95,040.00	$ 317,718.72
							$ 95,040.00	$ 317,718.72
Overlay Design								
12.5 mm PEM		1.25	484.00	2,904.00	TN	$105.77	$ 307,156.08	$ 1,026,822.78
12.5 mm SMA	400-3604	2.00	774.40	4,646.40	TN	$94.43	$ 438,759.55	$ 1,466,773.18
19 mm Superpave	402-3190				TN	$64.86		
							$ 745,915.63	$ 2,493,595.96
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	24.20	145.20	TN	$105.77	$ 15,357.80	$ 51,341.14
12.5 mm SMA	400-3604	2.00	38.72	77.44	TN	$94.43	$ 7,312.66	$ 24,446.22
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage	5%						
							$ 42,943.00	$ 143,558.44
INSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage	5%						
							$ 28,737.27	$ 96,068.68
OUTSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage	5%						
							$ 28,737.27	$ 96,068.68

OTHER REHABILITATION COSTS

	Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control				$300,000.00		
Pavement Markings						
					$ -	$ -
				REHABILITATION #1 COSTS	$ 1,265,499.30	$ 4,230,564.14

ALTERNATIVE A

REHABILITATION YEAR 20

TRAVEL LANES			Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Mill Asphalt	432-0209	2 1/4	7,040.00	42,240.00	SY	$2.25	$ 95,040.00	$ 317,718.72
							$ 95,040.00	$ 317,718.72
Overlay Design								
12.5 mm PEM		1.25	484.00	2,904.00	TN	$105.77	$ 307,156.08	$ 1,026,822.78
12.5 mm SMA	400-3604	2.00	774.40	4,646.40	TN	$94.43	$ 438,759.55	$ 1,466,773.18
19 mm Superpave	402-3190				TN	$64.86		
							$ 745,915.63	$ 2,493,595.96
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	24.20	145.20	TN	$105.77	$ 15,357.80	$ 51,341.14
12.5 mm SMA	400-3604	2.00	38.72	77.44	TN	$94.43	$ 7,312.66	$ 24,446.22
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage	5%						
							$ 42,943.00	$ 143,558.44
INSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage	5%						
							$ 28,737.27	$ 96,068.68
OUTSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage	5%						
							$ 28,737.27	$ 96,068.68

OTHER REHABILITATION COSTS

			Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control						$300,000.00		
Pavement Markings								
							$ -	$ -
						REHABILITATION #2 COSTS	$ 1,265,499.30	$ 4,230,564.14

ALTERNATIVE A

REHABILITATION YEAR 30

TRAVEL LANES			Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Mill Asphalt	432-0209	2 1/4	7,040.00	42,240.00	SY	$2.25	$ 95,040.00	$ 317,718.72
							$ 95,040.00	$ 317,718.72
Overlay Design								
12.5 mm PEM		1.25	484.00	2,904.00	TN	$105.77	$ 307,156.08	$ 1,026,822.78
12.5 mm SMA	400-3604	2.00	774.40	4,646.40	TN	$94.43	$ 438,759.55	$ 1,466,773.18
19 mm Superpave	402-3190				TN	$64.86		
							$ 745,915.63	$ 2,493,595.96
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	24.20	145.20	TN	$105.77	$ 15,357.80	$ 51,341.14
12.5 mm SMA	400-3604	2.00	38.72	77.44	TN	$94.43	$ 7,312.66	$ 24,446.22
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage	5%						
							$ 42,943.00	$ 143,558.44
INSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage	5%						
							$ 28,737.27	$ 96,068.68
OUTSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage	5%						
							$ 28,737.27	$ 96,068.68

OTHER REHABILITATION COSTS

			Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control						$300,000.00		
Pavement Markings								
							$ -	$ -
						REHABILITATION #3 COSTS	$ 1,265,499.30	$ 4,230,564.14

ALTERNATIVE B

Mainline Pavement Type HMA
Mainline Pavement Method Full Depth
More Description Flexible Option w RCC

ROADWAY PAVEMENT

TRAVEL LANES : New Construction for Widening	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
12.5 mm PEM	400-3624	1.25	484.00	484.00	TN	$105.77	$ 102,385.36	$ 342,274.26
12.5 mm SMA	400-3604	2.00	774.40	774.40	TN	$94.43	$ 146,253.18	$ 488,924.39
19 mm Superpave	402-3190	8.00	3,097.60	3,097.60	TN	$64.86	$ 401,820.67	$ 1,343,286.51
OGI	415-5000	1.25	7,040.00	7,040.00	SY	$3.75	$ 52,800.00	$ 176,510.40
RCC	442-0100	7.00	7,040.00	7,040.00	CY	$28.00	$ 394,240.00	$ 1,317,944.32
		19.5					$ 1,097,499.22	$ 3,668,939.88

TRAVEL LANES : New Construction for Exceptions	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
							$ -	$ -

TRAVEL LANES : Overlay Construction	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
12.5 mm PEM	400-3624	1.25	968.00	968.00	TN	$105.77	$ 204,770.72	$ 684,548.52
12.5 mm SMA	400-3604	2.00	1,548.80	1,548.80	TN	$94.43	$ 292,506.37	$ 977,848.79
19 mm Superpave	402-3190	5.50	4,259.20	4,259.20	TN	$64.86	$ 552,503.42	$ 1,847,018.95
OGI	415-5000	1.25	7,040.00	7,040.00	TN	$3.75	$ 52,800.00	$ 176,510.40
		10					$ 1,102,580.51	$ 3,685,926.65

INSIDE SHOULDER - Full Depth Asphalt	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
12.5 mm PEM	400-3624	1.25	60.50	60.50	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	774.40	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190	8.00	3,097.60	3,097.60	TN	$64.86	$ 401,820.67	$ 1,343,286.51
OGI	415-5000	1.25	7,040.00	7,040.00	SY	$3.75	$ 52,800.00	$ 176,510.40
RCC	442-0100	7.00	7,040.00	7,040.00	CY	$28.00	$ 394,240.00	$ 1,317,944.32
		19.5					$ 979,243.74	$ 3,273,611.82

OUTSIDE SHOULDER - Full Depth Asphalt	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
12.5 mm PEM	400-3624	1.25	60.50	60.50	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	774.40	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190	8.00	3,097.60	3,097.60	TN	$64.86	$ 401,820.67	$ 1,343,286.51
OGI	415-5000	1.25	7,040.00	7,040.00	SY	$3.75	$ 52,800.00	$ 176,510.40
RCC	442-0100	7.00	7,040.00	7,040.00	CY	$28.00	$ 394,240.00	$ 1,317,944.32
		19.5					$ 979,243.74	$ 3,273,611.82

OTHER & PREPARATORY WORK

		Include (y/n)	Quantity (per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control	150-1010							
Staging								
Roadway Bridges								
Raise Bridge								
Roadwork with Raise Bridge								
New Ramp Construction								
Grading	210-0200							
Waterproofing Joints & Cracks	445-0500	y	7,392.00	148,268.74	LF	$2.27	$ 100,679.04	$ 336,570.03
Remove Roadway Slab	609-1000							
Remove Roadway Slab (Exceptions)	609-1000							
Remove Existing Concrete prior to Overlay	609-1000							
Full Depth Slab Replacement prior to Overlay	452-1000							
Mill Asphalt								
Mill Asphalt (Exceptions)								
Joint Reinforcement Fabric								
Bitum Tack Coat (new pavement)	413-1000	y	1,548.80	3,097.60	GL	$2.77	$ 8,580.35	$ 28,684.12
Bitum Tack Coat (exceptions)	413-1000	y						
Bitum Tack Coat (overlay section)	413-1000	y	1,971.20	3,942.40	GL	$2.77	$ 10,920.45	$ 36,507.06
Vegetation Removal								
Barrier Wall								
Striping / Signage								
White Markings-Not Included								
Longitudinal Drainage								
Misc: (Guardrail, Soundwalls, EC, etc)								
							$ 120,179.84	$ 401,761.21
INITIAL COSTS (Roadway, Other & Preparatoy Work)							**$ 4,278,747.04**	**$ 14,303,851.37**

ALTERNATIVE B

REHABILITATION YEAR 10

TRAVEL LANES			Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Mill Asphalt	432-0209	2 1/4	7,040.00	42,240.00	SY	$2.25	$ 95,040.00	$ 317,718.72
							$ 95,040.00	$ 317,718.72
Overlay Design								
12.5 mm PEM		1.25	484.00	2,904.00	TN	$105.77	$ 307,156.08	$ 1,026,822.78
12.5 mm SMA	400-3604	2.00	774.40	4,646.40	TN	$94.43	$ 438,759.55	$ 1,466,773.18
19 mm Superpave	402-3190				TN	$64.86		
							$ 745,915.63	$ 2,493,595.96
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	24.20	145.20	TN	$105.77	$ 15,357.80	$ 51,341.14
12.5 mm SMA	400-3604	2.00	38.72	77.44	TN	$94.43	$ 7,312.66	$ 24,446.22
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage 5%							
							$ 42,943.00	$ 143,558.44
INSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage 5%							
							$ 28,737.27	$ 96,068.68
OUTSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage 5%							
							$ 28,737.27	$ 96,068.68

OTHER REHABILITATION COSTS

	Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control				$300,000.00		
Pavement Markings						
					$ -	$ -
				REHABILITATION #1 COSTS	$ 1,265,499.30	$ 4,230,564.14

ALTERNATIVE B

REHABILITATION YEAR 20

TRAVEL LANES			Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Mill Asphalt	432-0209	2 1/4	7,040.00	42,240.00	SY	$2.25	$ 95,040.00	$ 317,718.72
							$ 95,040.00	$ 317,718.72
Overlay Design								
12.5 mm PEM		1.25	484.00	2,904.00	TN	$105.77	$ 307,156.08	$ 1,026,822.78
12.5 mm SMA	400-3604	2.00	774.40	4,646.40	TN	$94.43	$ 438,759.55	$ 1,466,773.18
19 mm Superpave	402-3190				TN	$64.86		
							$ 745,915.63	$ 2,493,595.96
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	24.20	145.20	TN	$105.77	$ 15,357.80	$ 51,341.14
12.5 mm SMA	400-3604	2.00	38.72	77.44	TN	$94.43	$ 7,312.66	$ 24,446.22
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage 5%							
							$ 42,943.00	$ 143,558.44
INSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage 5%							
							$ 28,737.27	$ 96,068.68
OUTSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage 5%							
							$ 28,737.27	$ 96,068.68

OTHER REHABILITATION COSTS

	Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control				$300,000.00		
Pavement Markings						
					$ -	$ -
				REHABILITATION #2 COSTS	$ 1,265,499.30	$ 4,230,564.14

ALTERNATIVE B

REHABILITATION YEAR 30

TRAVEL LANES			Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Mill Asphalt	432-0209	2 1/4	7,040.00	42,240.00	SY	$2.25	$ 95,040.00	$ 317,718.72
							$ 95,040.00	$ 317,718.72
Overlay Design								
12.5 mm PEM		1.25	484.00	2,904.00	TN	$105.77	$ 307,156.08	$ 1,026,822.78
12.5 mm SMA	400-3604	2.00	774.40	4,646.40	TN	$94.43	$ 438,759.55	$ 1,466,773.18
19 mm Superpave	402-3190				TN	$64.86		
							$ 745,915.63	$ 2,493,595.96
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	24.20	145.20	TN	$105.77	$ 15,357.80	$ 51,341.14
12.5 mm SMA	400-3604	2.00	38.72	77.44	TN	$94.43	$ 7,312.66	$ 24,446.22
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage 5%							
							$ 42,943.00	$ 143,558.44
INSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage 5%							
							$ 28,737.27	$ 96,068.68
OUTSIDE SHOULDER---Asphalt								
Mill Asphalt	432-0209	2 1/4	7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Overlay Design								
12.5 mm PEM		1.25	60.50	121.00	TN	$105.77	$ 12,798.17	$ 42,784.28
12.5 mm Superpave	402-3130	2.00	774.40	1,548.80	TN	$75.92	$ 117,584.90	$ 393,086.31
19 mm Superpave	402-3190				TN	$64.86		
							$ 130,383.07	$ 435,870.59
Full Depth Asphalt Patching								
12.5 mm PEM	400-3624	1.25	12.22	24.44	TN	$105.77	$ 2,585.49	$ 8,643.29
12.5 mm Superpave	402-3130	2.00	38.72	77.44	TN	$75.92	$ 5,879.24	$ 19,654.32
19 mm Superpave	402-3190	8.00	154.88	309.76	TN	$64.86	$ 20,091.03	$ 67,164.33
OGI	415-5000	1.25	24.20	48.40	SY	$3.75	$ 181.50	$ 606.75
	Percentage 5%							
							$ 28,737.27	$ 96,068.68

OTHER REHABILITATION COSTS

	Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control				$300,000.00		
Pavement Markings						
					$ -	$ -
				REHABILITATION #3 COSTS	$ 1,265,499.30	$ 4,230,564.14

ALTERNATIVE C

Mainline Pavement Type PCC
Mainline Pavement Method Full Depth
More Description Rigid Option w RCC

ROADWAY PAVEMENT

TRAVEL LANES : New Construction for Widening	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
PCC	430-0200	10.00	7,040.00	7,040.00	SY	$42.00	$ 591,360.00	$ 1,976,916.48
19 mm Superpave	402-3190	2.00	774.40	774.40	TN	$64.86	$ 100,455.17	$ 335,821.63
RCC	442-0100	7.00	7,040.00	7,040.00	SY	$28.00	$ 394,240.00	$ 1,317,944.32
		19					$ 1,086,055.17	$ 3,630,682.43

TRAVEL LANES : New Construction for Exceptions	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
		-					$ -	$ -

TRAVEL LANES : Overlay Construction	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
PCC	430-0200	10.00	14,080.00	14,080.00	SY	$42.00	$ 1,182,720.00	$ 3,953,832.96
19 mm Superpave	402-3190	3.50	2,710.40	2,710.40	TN	$64.86	$ 351,593.09	$ 1,175,375.69
		13.5					$ 1,534,313.09	$ 5,129,208.65

INSIDE SHOULDER - Full Depth PCC	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
PCC	430-0200	10.00	7,040.00	7,040.00	SY	$42.00	$ 591,360.00	$ 1,976,916.48
19 mm Superpave	402-3190	2.00	774.40	774.40	TN	$64.86	$ 100,455.17	$ 335,821.63
RCC	442-0100	7.00	7,040.00	7,040.00	SY	$28.00	$ 394,240.00	$ 1,317,944.32
		19					$ 1,086,055.17	$ 3,630,682.43

OUTSIDE SHOULDER - Full Depth PCC	Pay Item No	inches	Quantity Direction 1 (per mi)	Quantity Direction 2 (per mi)	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
PCC	430-0200	10.00	7,040.00	7,040.00	SY	$42.00	$ 591,360.00	$ 1,976,916.48
19 mm Superpave	402-3190	2.00	774.40	774.40	TN	$64.86	$ 100,455.17	$ 335,821.63
RCC	442-0100	7.00	7,040.00	7,040.00	SY	$28.00	$ 394,240.00	$ 1,317,944.32
		19					$ 1,086,055.17	$ 3,630,682.43

OTHER & PREPARATORY WORK

		Include (y/n)	Quantity (per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control	150-1010							
Staging								
Roadway Bridges								
Raise Bridge								
Roadwork with Raise Bridge								
New Ramp Construction								
Grading	210-0200							
Waterproofing Joints & Cracks	445-0500	y	7,392.00	148,268.74	LF	$2.27	$ 100,679.04	$ 336,570.03
Remove Roadway Slab	609-1000							
Remove Roadway Slab (Exceptions)	609-1000							
Remove Existing Concrete prior to Overlay	609-1000							
Full Depth Slab Replacement prior to Overlay	452-1000							
Mill Asphalt								
Mill Asphalt (Exceptions)								
Joint Reinforcement Fabric								
Bitum Tack Coat	413-1000					$2.77		
Bitum Tack Coat (exceptions)	413-1000							
Bitum Tack Coat (overlay section)	413-1000							
Vegetation Removal								
Barrier Wall								
Striping / Signage								
White Markings-Not Included								
Longitudinal Drainage								
Misc: (Guardrail, Soundwalls, EC, etc)								
							$ 100,679.04	$ 336,570.03
INITIAL COSTS (Roadway, Other & Preparatoy Work)							**$ 4,893,157.63**	**$ 16,357,825.96**

ALTERNATIVE C

REHABILITATION YEAR 20

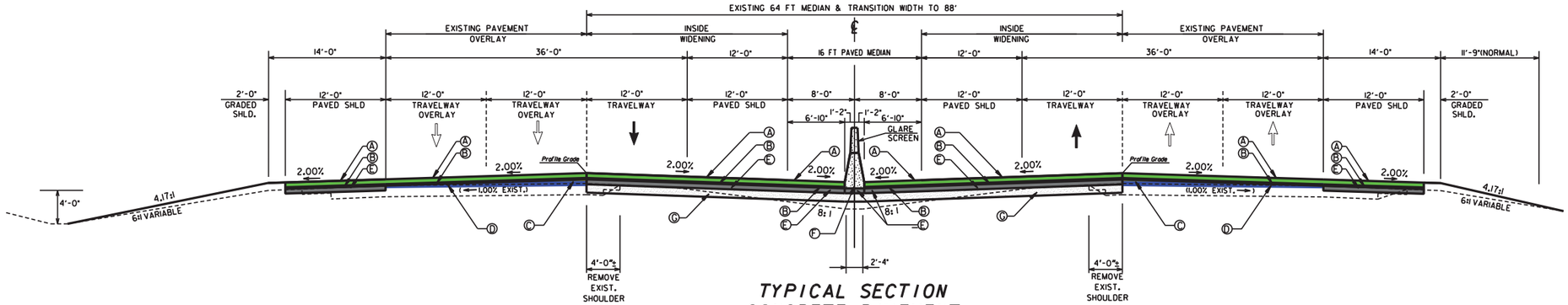
TRAVEL LANES			Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Grind Concrete	431-1000		7,040.00	42,240.00	SY	$2.25	$ 95,040.00	$ 317,718.72
							$ 95,040.00	$ 317,718.72
Resealing Roadway Joints & Cracks	461-1000		11,616.00	69,696.00	LF	$8.38	$ 584,052.48	$ 1,952,487.44
							$ 584,052.48	$ 1,952,487.44
Full Depth Slab Replacement PCC	452-1000	10.00	97.78	586.67	CY	$595.40	$ 349,301.33	$ 1,167,714.36
	Percentage	5%					$ 349,301.33	$ 1,167,714.36
INSIDE SHOULDER---PCC								
Grind Concrete	431-1000		7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Resealing Roadway Joints & Cracks	461-1000		7,392.00	14,784.00	LF	$8.38	$ 123,889.92	$ 414,164.00
							$ 123,889.92	$ 414,164.00
Full Depth Slab Replacement PCC	452-1000	10.00	97.78	195.56	CY	$595.40	$ 116,433.78	$ 389,238.12
	Percentage	5%					$ 116,433.78	$ 389,238.12
OUTSIDE SHOULDER---PCC								
Grind Concrete	431-1000		7,040.00	14,080.00	SY	$2.25	$ 31,680.00	$ 105,906.24
							$ 31,680.00	$ 105,906.24
Resealing Roadway Joints & Cracks	461-1000		7,392.00	14,784.00	LF	$8.38	$ 123,889.92	$ 414,164.00
							$ 123,889.92	$ 414,164.00
Full Depth Slab Replacement PCC	452-1000	10.00	97.78	195.56	CY	$595.40	$ 116,433.78	$ 389,238.12
	Percentage	5%					$ 116,433.78	$ 389,238.12

OTHER REHABILITATION COSTS

	Quantity (per lane per mi per direction)	Quantity	Unit Measure	Unit Cost	ITEM COST (per mi)	ITEM COST (total)
Traffic Control				$300,000.00		
Pavement Markings						
					$ -	$ -
				REHABILITATION #1 COSTS	$ 1,572,401.21	$ 5,256,537.24

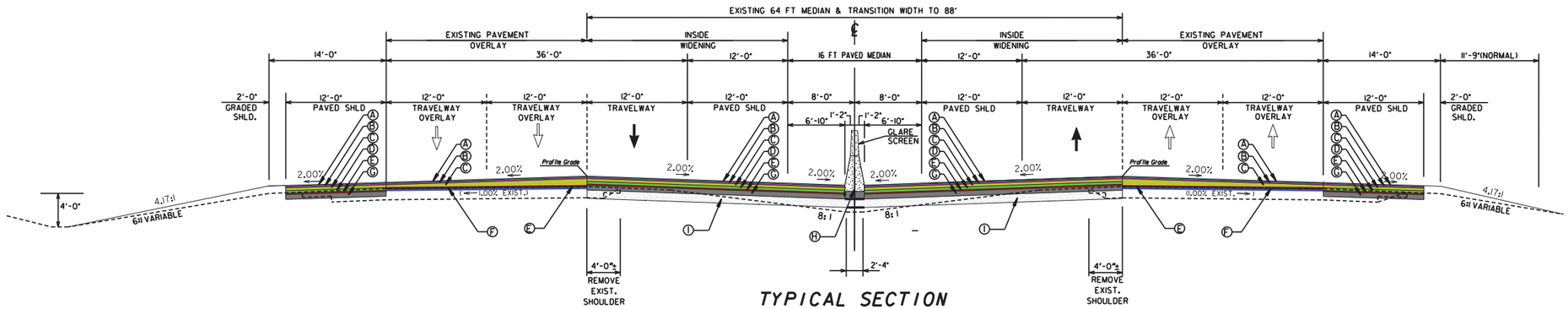
EXHIBIT 2
TYPICAL SECTIONS

DATE TIME$$$	TIME$$$	DGN	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$	$$PENTABLE$$		TROUP	MSL00-0003-00(246)		$TOTALSHT$$$



Ⓐ PLAIN PC CONC PVMT, CLI CONC, 10 INCH THK (JOINTED WITH 1½" SMOOTH DOWEL BAR AT 12 FT C/C)(430-0200)
Ⓑ RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME-220 LB./SQ. YD. -2 INCH (402-3130)
Ⓒ RECYCLED ASPH CONC LEVELING(12.5mm SP) - VAR. 0 TO 3"+/- (402-1812)
Ⓓ WATERPROOFING FABRIC (445-0500)
Ⓔ ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓕ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓖ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)

TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 0.257 MILE NORTH OF
SR 109 TO 1.571 MILE NORTH OF I-185



Ⓐ SURFACE: ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-137.5 LB/SY (400-3624)
Ⓑ SMA: ASPH CONC 12.5 MM SMA, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-220 LB/SY (400-3604)
Ⓒ BINDER: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME- LEVELING-VAR. 4" TO 7" THK(402-3190)
Ⓓ BASE HMA: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME-440 LB/SY (402-3190)
Ⓔ OGI: ASPH CONC 12.5 MM OGFC, GP 2 ONLY, INCL BITUM MATL & H LIME-137.5 LB/SY (400-3205)
Ⓕ WATERPROOFING FABRIC (445-0500)
Ⓖ BASE: ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓗ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓘ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)

TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 0.257 MILE NORTH OF
SR 109 TO 1.571 MILE NORTH OF I-185

PI 003246
Troup County

R.K. SHAH & ASSOCIATES, INC.
ENGINEERS
TRANSPORTATION / SITE / CIVIL
1200 WINCHESTER PARKWAY ATLANTA, GEORGIA 30080
BUILDING 1200, SUITE 240
TELEPHONE 770/436-5070 FAX 770/436-5410

REVISION DATES

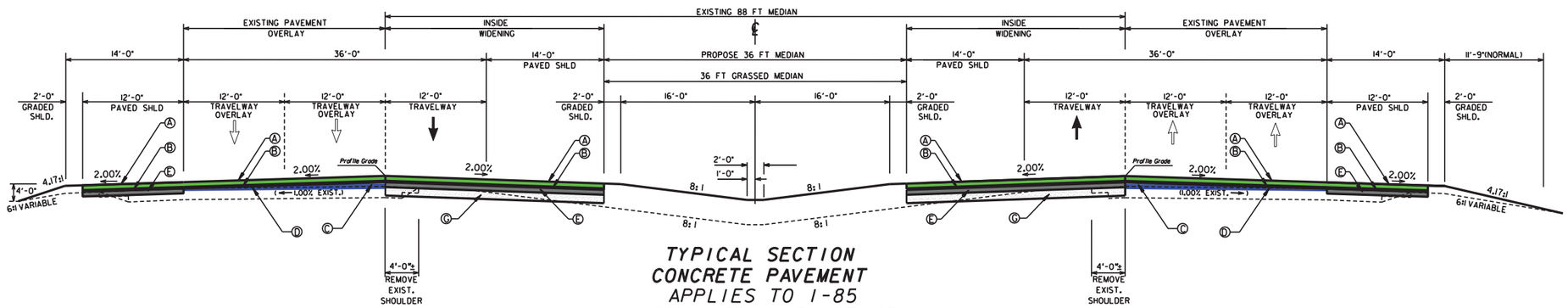
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD AND AIRPORT DESIGN

TYPICAL SECTIONS

PROJECT MSL00-0003-00(246)
COUNTY TROUP
PI 0003246

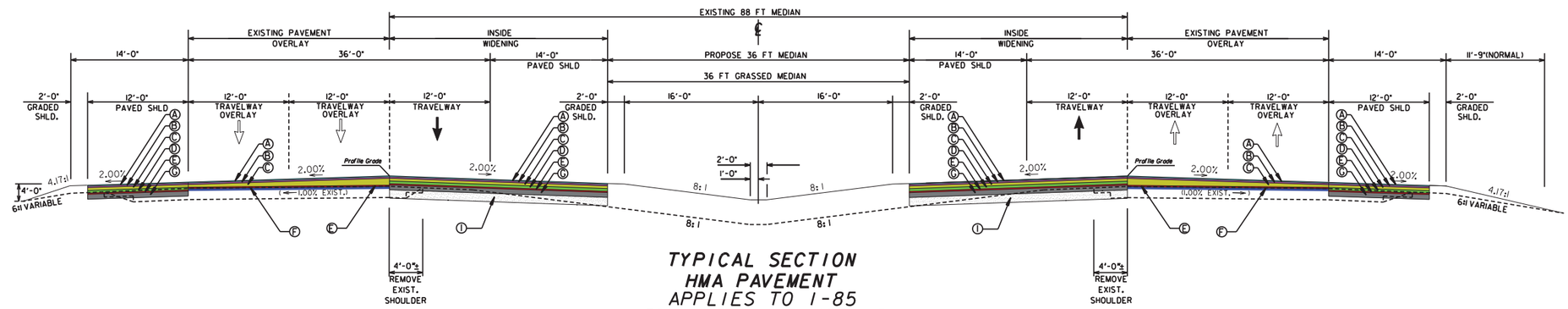
DRAWING No. 5-01

DATETIME$$$ TIME$$$ $USER$	$$PENTABLE$$	DGN	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
			TROUP	MSL00-0003-00(246)		$TOTALSHT$$$



TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 1.571 MILE NORTH OF
I-185 TO 1.628 MILE NORTH OF I-185

Ⓐ PLAIN PC CONC PVMT, CLI CONC, 10 INCH THK (JOINTED WITH 1½" SMOOTH DOWEL BAR AT 12 FT C/C)(430-0200)
Ⓑ RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME-220 LB./SQ. YD. -2 INCH (402-3130)
Ⓒ RECYCLED ASPH CONC LEVELING(12.5mm SP) - VAR. 0 TO 3"+/- (402-1812)
Ⓓ WATERPROOFING FABRIC (445-0500)
Ⓔ ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓕ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓖ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)



TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 1.571 MILE NORTH OF
I-185 TO 1.628 MILE NORTH OF I-185

Ⓐ SURFACE: ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-137.5 LB/SY (400-3624)
Ⓑ SMA: ASPH CONC 12.5 MM SMA, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-220 LB/SY (400-3604)
Ⓒ BINDER: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME- LEVELING-VAR. 4" TO 7" THK(402-3190)
Ⓓ BASE HMA: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME-440 LB/SY (402-3190)
Ⓔ OGI: ASPH CONC 12.5 MM OGFC, GP 2 ONLY, INCL BITUM MATL & H LIME-137.5 LB/SY (400-3205)
Ⓕ WATERPROOFING FABRIC (445-0500)
Ⓖ BASE: ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓗ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓘ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)

PI 003246
Troup County

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TRANSPORTATION / SITE / CIVIL
1200 WINCHESTER PARKWAY ATLANTA, GEORGIA 30080
BUILDING 1200, SUITE 240
TELEPHONE 770/436-5070 FAX 770/436-5410

REVISION DATES

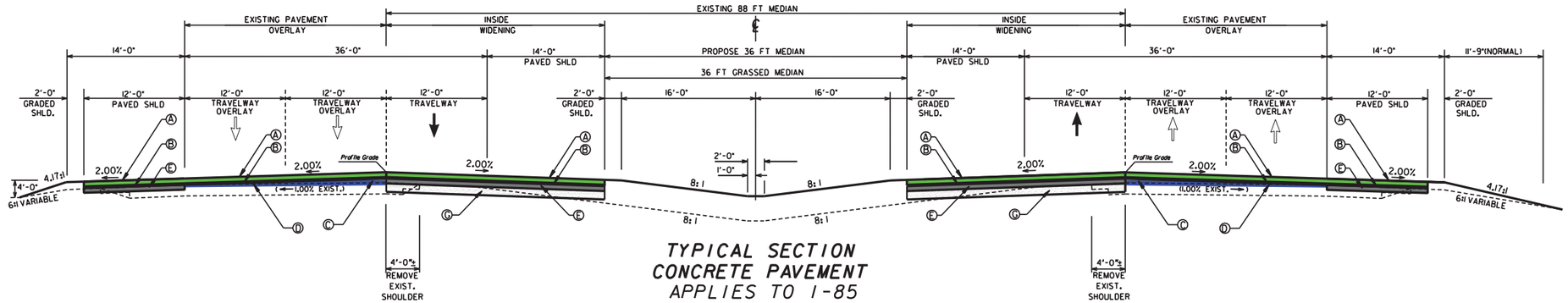
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD AND AIRPORT DESIGN

TYPICAL SECTIONS

PROJECT MSL00-0003-00(246)
COUNTY TROUP
PI 0003246

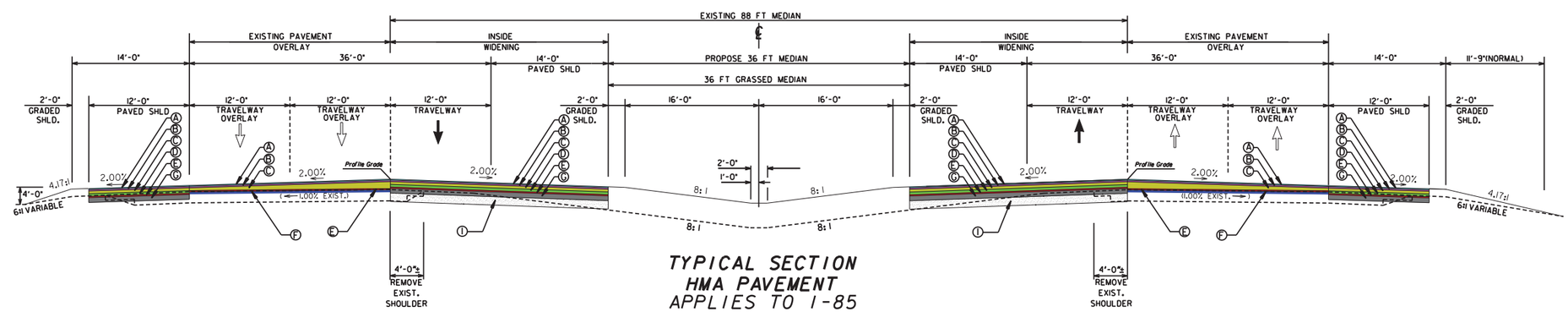
DRAWING No. 5-02

DATETIME$$$ TIME$$$	$$PENTABLE$$	DGN	COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
$USER$			TROUP	MSL00-0003-00(246)		$TOTALSHT$$$



TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 1.628 MILE NORTH OF
I-185 TO 0.723 MILE SOUTH OF
SR 54/SR 100/E MAIN ST

Ⓐ PLAIN PC CONC PVMT, CLI CONC, 10 INCH THK (JOINTED WITH 1½" SMOOTH DOWEL BAR AT 12 FT C/C)(430-0200)
Ⓑ RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME-220 LB./SQ. YD. -2 INCH (402-3130)
Ⓒ RECYCLED ASPH CONC LEVELING(12.5mm SP) - VAR. 0 TO 3"+/- (402-1812)
Ⓓ WATERPROOFING FABRIC (445-0500)
Ⓔ ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓕ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓖ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)



TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 1.628 MILE NORTH OF
I-185 TO 0.723 MILE SOUTH OF
SR 54/SR 100/E MAIN ST

Ⓐ SURFACE: ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-137.5 LB/SY (400-3624)
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Ⓒ BINDER: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME- LEVELING-VAR. 4" TO 7" THK(402-3190)
Ⓓ BASE HMA: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME-440 LB/SY (402-3190)
Ⓔ OGI: ASPH CONC 12.5 MM OGFC, GP 2 ONLY, INCL BITUM MATL & H LIME-137.5 LB/SY (400-3205)
Ⓕ WATERPROOFING FABRIC (445-0500)
Ⓖ BASE: ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓗ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26) (PAY ITEM VARIES)
Ⓘ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)

PI 0012800
Troup County

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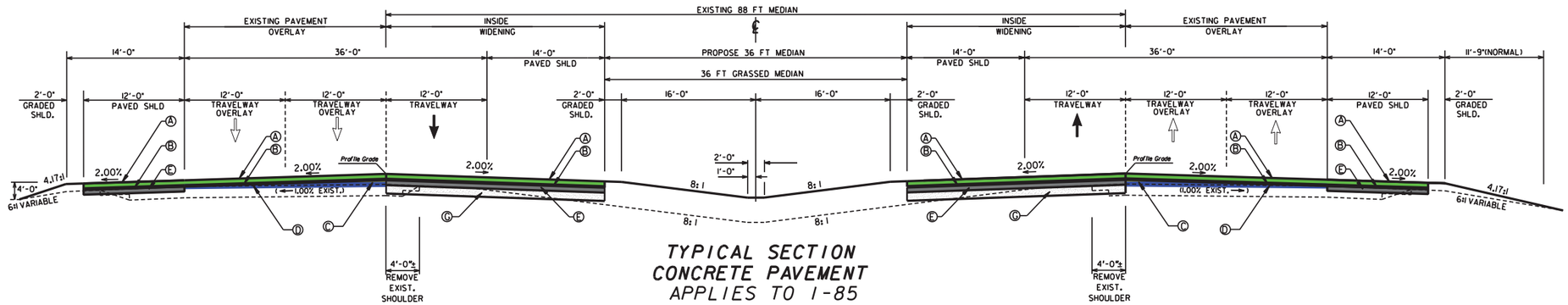
OFFICE: ROAD AND AIRPORT DESIGN

TYPICAL SECTIONS

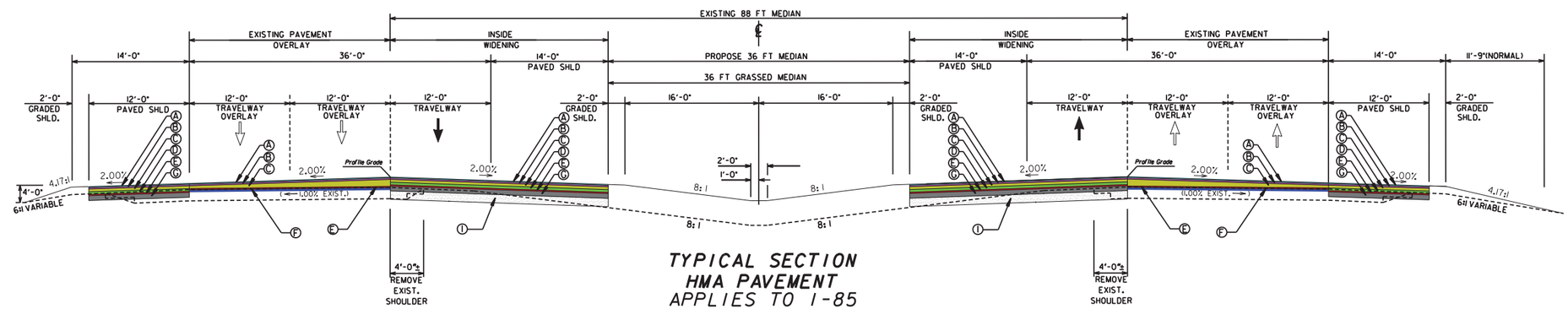
PROJECT MSL00-0003-00(246)
COUNTY TROUP
PI 0012800

DRAWING No. 5-01



TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 0.723 MILE SOUTH OF
SR 54/SR 100 IN TROUP COUNTY
TO 0.191 MILE NORTH OF CR 417
IN MERIWETHER COUNTY

Ⓐ PLAIN PC CONC PVMT, CLI CONC, 10 INCH THK (JOINTED WITH 1½" SMOOTH DOWEL BAR AT 12 FT C/C)(430-0200)
Ⓑ RECYCLED ASPH CONC 12.5mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME-220 LB./SQ. YD. -2 INCH (402-3130)
Ⓒ RECYCLED ASPH CONC LEVELING(12.5mm SP) - VAR. 0 TO 3"+/- (402-1812)
Ⓓ WATERPROOFING FABRIC (445-0500)
Ⓔ ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓕ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26)(PAY ITEM VARIES)
Ⓖ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)



TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 0.723 MILE SOUTH OF
SR 54/SR 100 IN TROUP COUNTY
TO 0.191 MILE NORTH OF CR 417
IN MERIWETHER COUNTY

Ⓐ SURFACE: ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLY-MOD BITUM MATL & H LIME-137.5 LB/SY (400-3624)
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Ⓒ BINDER: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME- LEVELING-VAR. 4" TO 7" THK(402-3190)
Ⓓ BASE HMA: RECYCLED ASPH CONC 19MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME-440 LB/SY (402-3190)
Ⓔ OGI: ASPH CONC 12.5 MM OGFC, GP 2 ONLY, INCL BITUM MATL & H LIME-137.5 LB/SY (400-3205)
Ⓕ WATERPROOFING FABRIC (445-0500)
Ⓖ BASE: ROLLER COMPACTED CONCRETE, 7 INCH THK (442-0100)
Ⓗ CONCRETE BARRIER (SEE PLAN FOR TYPE S1, S2, S3, S25, OR S26)(PAY ITEM VARIES)
Ⓘ GRANULAR EMBANKMENT, INCL MATL & HAUL, 12 INCH THK (212-1000)

PI 0012801
Troup & Meriwether Counties

R.K. SHAH & ASSOCIATES, INC.
ENGINEERS
TRANSPORTATION / SITE / CIVIL
1280 WINCHESTER PARKWAY ATLANTA, GEORGIA 30080
BUILDING 1200, SUITE 240
TELEPHONE 770/436-5070 FAX 770/436-5410

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD AND AIRPORT DESIGN

TYPICAL SECTIONS

PROJECT MSL00-0003-00(246)
COUNTY TROUP / MERIWETHER
PI 0012801

DRAWING No. 5-01

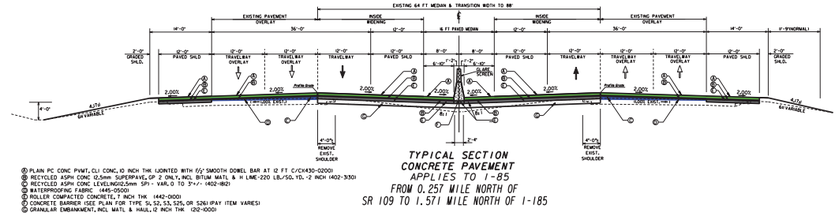
ATTACHMENT 12

CONCEPT PLAN

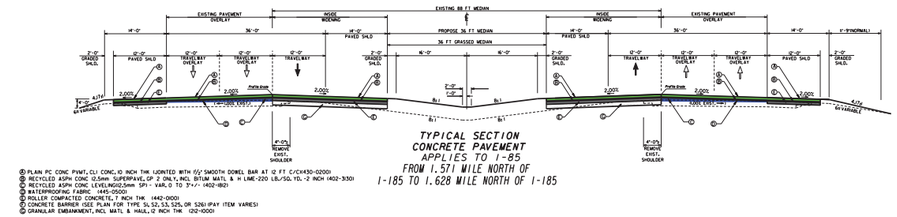
PI 003246
Troup County

LEGEND

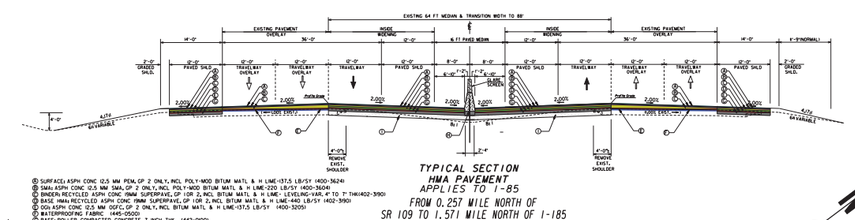
- NEW PAVEMENT (WIDENING)
- RESURFACE EXISTING PAVEMENT
- R.O.W. FENCE
- EXISTING R.O.W. & LIMIT OF ACCESS
- JACKING OF EXISTING BRIDGE OVER I-85
- ROTATE AND WIDEN EXISTING BRIDGE ON I-85
- PROJECT BY OTHERS
- SUB-STANDARD VERTICAL
- SUB-STANDARD SUPER ELEVATION
- CCTV - REMOTE CONTROL CAMERA



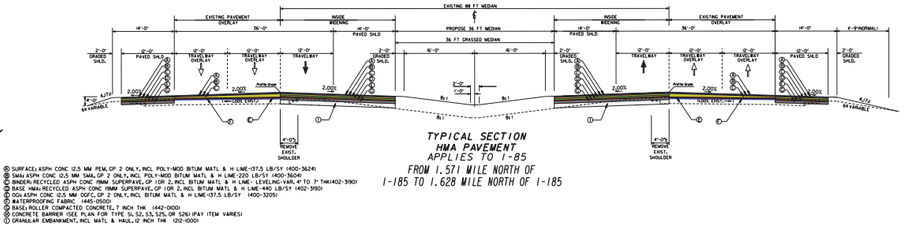
TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 0.257 MILE NORTH OF
SR 109 TO 1.571 MILE NORTH OF I-185



TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM 1.571 MILE NORTH OF
I-185 TO 1.628 MILE NORTH OF I-185



TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 0.257 MILE NORTH OF
SR 109 TO 1.571 MILE NORTH OF I-185



TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM 1.571 MILE NORTH OF
I-185 TO 1.628 MILE NORTH OF I-185

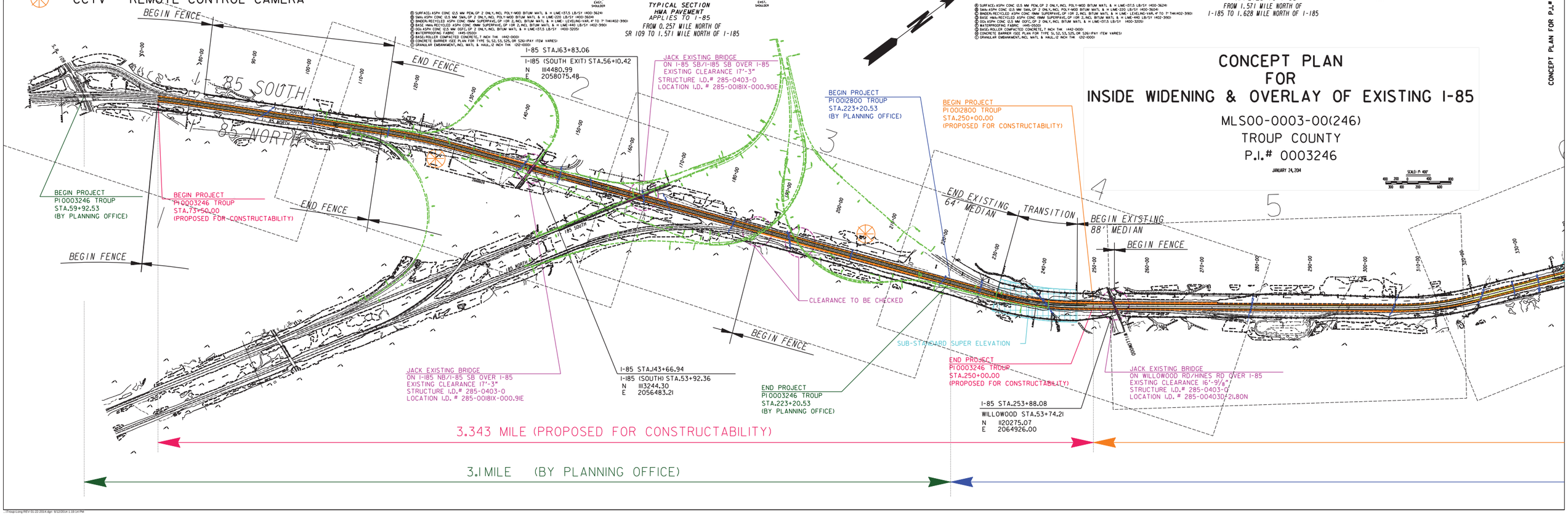
CONCEPT PLAN FOR INSIDE WIDENING & OVERLAY OF EXISTING I-85

MLS00-0003-00(246)
TROUP COUNTY
P.I.# 0003246

JANUARY 24, 2014

SCALE: 1" = 400'

CONCEPT PLAN FOR P.I.# 0003246 TROUP - SR403/I-85 WIDENING & OVERLAY JAN. 24, 2014

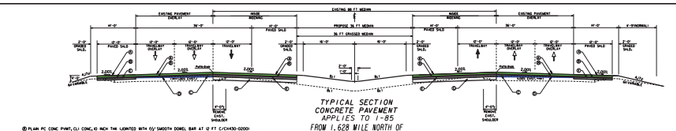


I:\troup-Long REV 01-22-2014.dgn 6/12/2014 1:19:14 PM

PI 0012800
Troup County

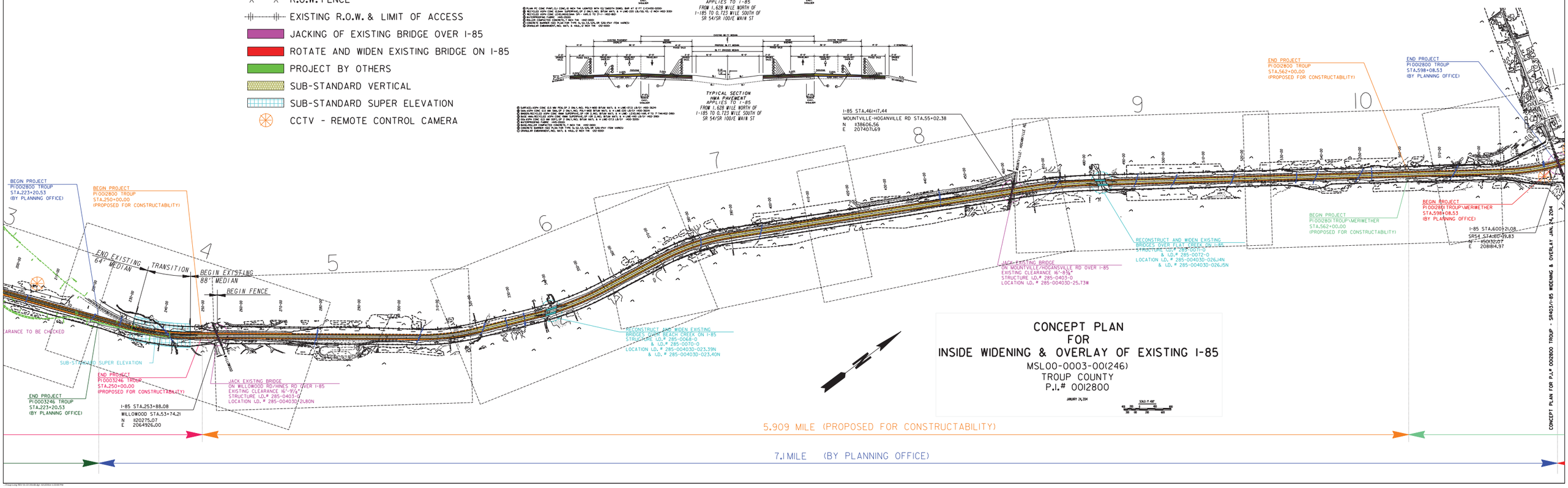
LEGEND

- NEW PAVEMENT (WIDENING)
- RESURFACE EXISTING PAVEMENT
- R.O.W. FENCE
- EXISTING R.O.W. & LIMIT OF ACCESS
- JACKING OF EXISTING BRIDGE OVER I-85
- ROTATE AND WIDEN EXISTING BRIDGE ON I-85
- PROJECT BY OTHERS
- SUB-STANDARD VERTICAL
- SUB-STANDARD SUPER ELEVATION
- CCTV - REMOTE CONTROL CAMERA

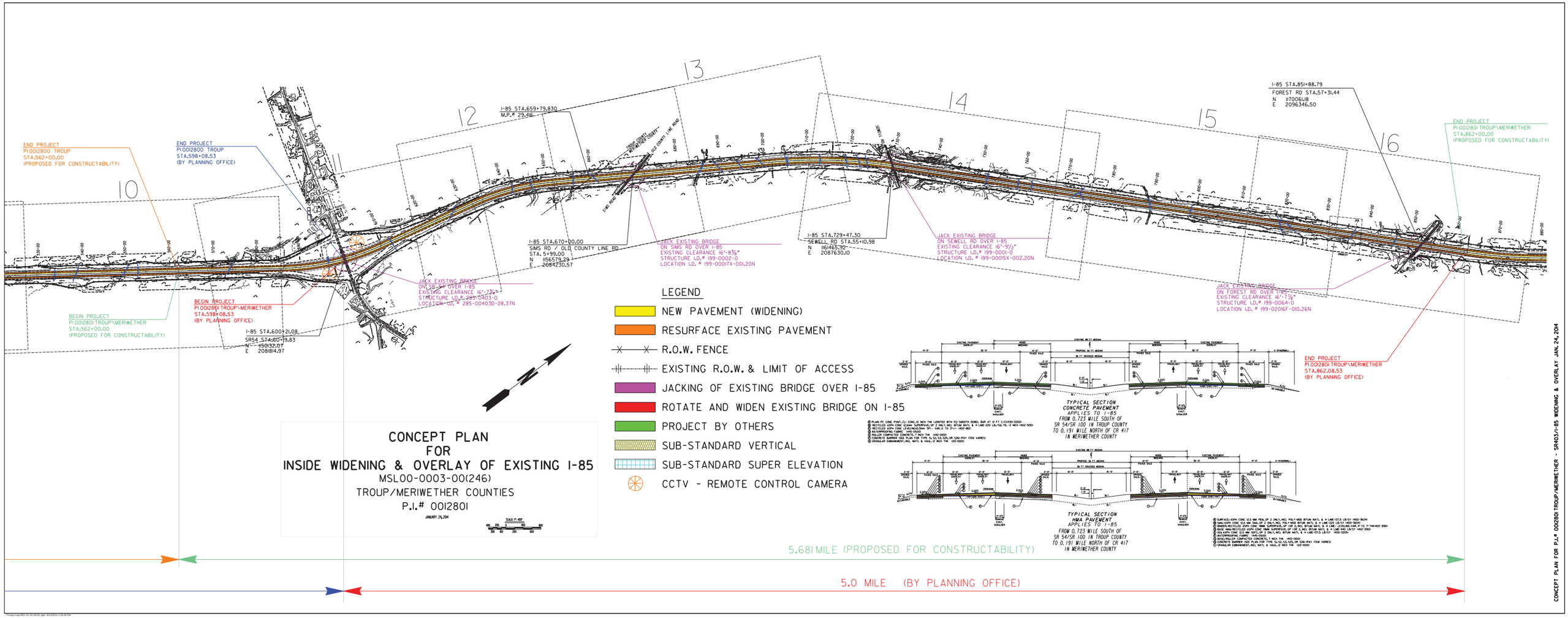


TYPICAL SECTION
CONCRETE PAVEMENT
APPLIES TO I-85
FROM I.628 MILE NORTH OF
I-185 TO 0.723 MILE SOUTH OF
SR 54/SR 100/E MAIN ST

TYPICAL SECTION
HMA PAVEMENT
APPLIES TO I-85
FROM I.628 MILE NORTH OF
I-185 TO 0.723 MILE SOUTH OF
SR 54/SR 100/E MAIN ST



PI 0012801
Troup & Meriwether Counties



CONCEPT PLAN FOR P.I.# 0012801 TROUP/MERIWETHER - SR403/I-85 WIDENING & OVERLAY JAN. 24, 2014