Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD • BUILDING 200 • MARIETTA, GEORGIA 30066-5393
e-mail: hle@heath-lineback.com
(770) 424-1668 • Fax (770) 424-2907

February 15, 2011

Mr. Bobby Hilliard, P.E.
Georgia Department of Transportation
One Georgia Center
600 West Peachtree Street, NW, 25th Floor
Atlanta, GA 30308
Attn: Mr. Robert Murphy

RE: NH000-003-03-(053) – Clarke County
US78/SR10 (Atlanta Highway) over SR 10 Loop Interchange Improvement
PI No. 122890
Consultant QC/QA Certification Letter

Dear Mr. Hilliard:

This letter is to certify that the below specified milestone/contract document has been prepared in accordance with GDOT standards and has been confirmed by review that the presentation and information is accurate based on Heath and Lineback Engineers internal quality control and quality assurance policies, procedures and measures.

Milestone/Contract Document: **Revised Concept Report**

PM signature: Shawn Fleet Date: 2-15-11

QC signature: Shawn Fleet Date: 2/15/11

QA signature: W. Allen Date: 2/15/11

Very truly yours,
Heath & Lineback Engineers, Inc.

Shawn Fleet
Shawn Fleet, P.E.
Project Manager

J:\4009\Admin\4009.419 - Revised Concept.docx

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE NH000-0003-03-(053), Clarke County
P.I. No.: 122890
US78/SR10 AT SR10 Loop Interchange

OFFICE: Program Delivery

DATE: February 15, 2011

FROM *Bobby Hilliard, P.E., - State Program Delivery Engineer*

TO *Brent A. Story, P.E., - State Design Policy Engineer*
Attn: Dave Peters

SUBJECT **Revised Project Concept Report**

Attached is the original copy of the Revised Concept Report for your further handling for approval in accordance with the Plan Development Process (PDP).

The following are the reasons for the changes in the concept:

- The approved typical section for US 78 (Atlanta Highway) provides 12 ft travel lanes. The typical section for Atlanta Highway is to be revised to reduce lane widths from 12 ft to 11 ft, due to a Value Engineering Study Implementation.

- The approved typical sections provide a 4 ft bike lane along both sides of US 78 (Atlanta Highway). The typical section for Atlanta highway is to be revised to remove the 4 ft bike lanes due to a Value Engineering Study Implementation.
- The approved typical sections along Huntington Road, Jennings Mill Road and all minor side roads provide 16 ft wide urban shoulders. Typical sections for Huntington Road, Jennings Mill Road and all minor side roads are to be revised to reduce the shoulder width from 16 ft to 10 ft, due to a Value Engineering Study Implementation. This is accomplished by reducing the width of the 6 ft grass buffer area to 2 ft and the 2.5 ft grass area outside the sidewalk to 6 inches.

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

DATE_____

_____
State Transportation Planning Administrator

Distribution:
Glenn Bowman - State Environmental Administrator
Paul Liles - State Bridge Engineer
Cindy VanDyke - State Transportation Planning Administrator

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

REVISED PROJECT CONCEPT REPORT

Project Number: NH000-0003-03-(053)
County: Clarke
P. I. Number: 122890
Federal Route Number: 78
State Route Number: 10 & 10 Loop

Changes and reasons for changes:

Typical Sections: The typical section for Atlanta Highway is to be revised to remove the 4 ft bike lanes and reduce the lane widths to 11 ft. The typical section for Huntington Road, Jennings Mill Road and all minor side roads will be revised to have 10 ft urban shoulders. These changes are due to a Value Engineering Implementation.

Submitted for approval:

DATE 2-15-2011 _____
Heath and Lineback Engineers

DATE _____ _____
Office Head

DATE _____ _____
Project Manager

Recommendation for approval:

DATE _____ _____
State Environmental Administrator

DATE _____ _____
State Bridge Design Engineer

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

DATE _____ _____
State Transportation Planning Administrator

REVISED PROJECT CONCEPT REPORT

PROJECT NO.: NH000-0003-03-(053)
CLARKE COUNTY
PI NO.: 122890

Need & Purpose:

The proposed project was identified by and is a component of the Madison-Athens-Clarke County-Oconee Regional Transportation Study (MACORTS) adopted in September 1997. This interchange is significant regionally in that it provides access to and between SR 10 Loop, which is a perimeter route around the city of Athens, from Atlanta Highway (SR 10/US 78), which provides access to the Georgia Square Mall located west of the interchange. It also serves a wide variety of other shopping, eating, and employment opportunities in the immediate vicinity. The primary need of the project is mobility; however, a secondary need of safety would also be addressed by the proposed project.

Roadways are rated for operational effectiveness using a level-of-service (LOS). LOS is a standard means of classifying traffic conditions associated with various traffic volume levels and traffic flow conditions. There are six levels of service at which a roadway can operate, represented by the letters "A" through "F". Each level is defined by a maximum value for the ratio of traffic volume (V) to facility capacity (C). A LOS of A is when volume is well below capacity and traffic is flowing freely. LOS of "B" is when traffic flow is steady but the presence of other vehicles begins to be noticeable. A LOS of "C" allows for steady traffic flow, but speeds and maneuverability are more closely controlled by the higher volumes. LOS of "D" is approaching an unsteady flow in which speed and maneuverability are severely restricted. LOS of "E" is when traffic flow is reduced to a slow but relatively uniform speed, and traffic volume is equal to or nearly equal to capacity and maneuverability is extremely difficult. The lowest LOS of "F" is when the volume greatly exceeds the capacity and lengthy delays occur.

The build year (2011) average daily traffic (ADT) is 56,150 along Atlanta Highway. The projected ADT for design year (2031) is 78,250. This is an increase of 22,100 vehicles per day, a 28 percent increase in traffic volume. SR 10 Loop would see an increase to 50,500 VPD by 2031, from 2011 projected counts of 36,000 VPD. The current LOS, no build LOS, and Build LOS is shown in the below table for each intersection.

Weekday Peak Hour Levels of Service

Intersection	No-Build 2011		No-Build 2031		Build 2011		Build 2031	
	AM	PM	AM	PM	AM	PM	AM	PM
Huntington Road at Atlanta Highway	B	D	C	F	E	C	D	C
Southbound Loop Ramp at Atlanta Highway	B	D	D	F	A	B	A	B
Northbound Loop Ramp at Atlanta Highway	A	C	D	F	A	A	A	A
Jennings Mill Road at Atlanta Highway	F/B*	F/E*	F*	F*	A	B	A	B

*Northbound/westbound left-turn movements for Stop sign control

Significant accident issues also exist at this interchange. In 2003, 2004, and 2005 there were 103, 63, and 67 accidents respectively. While there have been no fatalities there have been

many injuries. In 2003, 2004, and 2005 there were 28, 27, and 20 injuries respectively. Below the Accident Rates per 100 Million Vehicle Miles table shows that accident rates and injury rates at SR 10 Loop and Atlanta Highway are higher than the statewide averages for similar roadways in Georgia.

Accident Rates per 100 Million Vehicle Miles

Year	SR 10/ Atlanta Hwy Accident Rate	SR 10/ Atlanta Hwy Injury Rate	SR 10/ Atlanta Hwy Fatality Rate	Statewide Accident Rate	Statewide Injury Rate	Statewide Fatality Rate
2003	1,648	448	0.00	613	243	1.27
2004	921	395	0.00	637	247	1.31
2005	987	295	0.00	727	278	1.87

The SR 10 & US 78 (Eastbound) over SR 10 Loop (structure ID 059-0020-0) has a sufficiency rating of 83.32. This bridge should be replaced because:

1. There is shear cracking in the three intermediate bents. These bents were repaired previously and must now be replaced.
2. The deck has cracking and deterioration throughout the structure. The metal stay in place forms under the widening section have severe rust, indicating problems within the deck near these rusted areas.
3. The edge beams are shallow and need to be replaced thought the structure.

The SR 10 & US 78 (Westbound) over SR 10 Loop (structure ID 059-0021-0) has a sufficiency rating of 44.66. This bridge should be replaced because:

1. There is shear cracking in the three intermediate bents. The bents were repaired previously and must now be replaced.
2. The deck has cracking and deterioration throughout the structure and should be replaced.
3. The edge beams are shallow and need to be replaced thoughout the structure.

The new loop ramps and additional lanes provided by this project would facilitate the flow of traffic to and from SR 10 Loop to Atlanta Highway as well as the through traffic on Atlanta Highway by eliminating many conflicting turning movements. The relocated Jennings Mill Road provided by this project would improve traffic safety and will facilitate the flow of traffic to and from Jennings Mill Road and a large shopping center to Atlanta Highway by adding a traffic signal and increasing the distance between the intersection of the northbound exit ramp and the Jennings Mill Road along Atlanta Highway.

Project Location:

This project is located in the city of Athens in southwest Clark County for a total length of 0.82 miles and beginning Mile Log is 2.68 and End Mile Log is 3.57.

Description of the approved concept:

The approved concept consists of improvements to the SR 10 Loop/Atlanta Highway (SR 10/US 78) interchange in Athens, Georgia and the widening of Atlanta Highway in the interchange vicinity for a total project length of .82 mile.

SR 10 Loop is a four lane facility with a forty-foot deprcssed median and a 55 mph posted speed limit. Atlanta Higbway (SR 10/US 78) consists of 4 to 6 lanes, urban shoulders and a variable width raised median and depressed median. The medians range from 8' to 40' wide. The posted speed limit on Atlanta Highway (SR 10/US 78) is 45 mph.

Huntington Road and Jennings Mill Road have posted speeds of 25 mph and 35 mph, respectivcly, with Huntington Road being 2 to 4 lanes, with urban shoulder and a variable width raised median and Jennings Mill Road being a 2 lane roadway with six foot rural shoulders.

Accident data within the limits of the project indicate a significant problem on Atlanta Highway. Continuous commercial development along Atlanta Highway corridor will increase traffic volumes to 78,250 vehicles per day (VPD) by the year 2031, from year 2011 counts of 56,150 VPD. SR 10 Loop will see an increase of nearly 14,500 VPD to 50,500 VPD by year 2031.

The approved concept proposes construction of a new loop ramp from Atlanta Highway westbound to SR 10 Loop soutbbound, realigning the existing loop ramp from Atlanta Highway eastbound to SR 10 Loop northbound, and widening Atlanta Highway by adding four lanes and lengthening several turn lanes. In addition, the project includes improvements to the Huntington Road and Atlanta Highway intersection and relocating the Jennings Mill Road intersection.

Atlanta Highway will be widened to a 7 to 8 lane urban facility with 8' to 40' raised median, 4' bike lanes, 5' sidewalks, 16' shoulders and left turn lanes added or modified at various locations. SR 10 Loop will remain four lanes with a 40' depressed median. Improvements to SR 10 Loop include adding a deceleration / storage lane to the southbound exit ramp, adding a southbound entrance loop ramp witb an acceleration lane on SR 10 Loop, and realigning the northbound loop ramp and the acceleration lane on SR 10 Loop. Huntington Road will be widened to add left and right turn lanes in both directions witb 5' sidewalks and 16' shoulders. Jennings Mill Road intersection with Atlanta Highway will be relocated approximately 300' east of its current location. Relocated Jennings Mill Road will consist of 2 lanes with curb and gutter, 5' sidewalks, and 16' shoulders. All lanes within the project are to be designed 12 ft wide.

DESIGN SPEEDS	
Atlanta Highway	45 mph
Jennings Mill Road	35 mph
Huntington Road	25 mpb
SR 10 Loop	55 mph
SR 10 Loop - Entrance Loop Ramps	30 mph
SR 10 Loop - Exit Ramps	45 mph

PDP Classification: Major __X____ Minor_____

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

Functional Classification: Urban Principal Arterial

U. S. Route Number(s): 78 **State Route Number(s):** 10

Traffic (AADT) as shown in the approved concept:
Atlanta Hwy Base Year: (2006) - 60,800 Design Year: (2026) - 85,200
SR 10 Loop Base Year: (2006) - 34,600 Design Year: (2026) - 48,400

Updated Traffic Data (AADT):
Atlanta Hwy Base Year: (2011) - 56,150 Design Year: (2031) - 78,250
SR 10 Loop Base Year: (2011) - 36,000 Design Year: (2031) - 50,500

Approved Programmed/Schedule:
P.E. 1999 R/W: 2011 Construction: 2018

VE Study Required Yes (X) No ( )

Benefit/Cost Ratio Not Available

Is the project located in an Ozone Non-Attainment area? _____ Yes __X__ No

Is the project in a PM2.5 Non-Attainment area? _____ Yes __X__ No

Approved features:

- The approved typical section for US 78 (Atlanta Highway) provides 12 ft travel lanes.
- The approved typical sections provide 4 ft bike lanes along both sides of US 78 (Atlanta Highway).
- The approved typical sections provide 16 ft wide urban shoulders along Huntington Road, Jennings Mill Road and all minor side road.

Proposed features:

- The typical section for Atlanta Highway is to be revised to reduce lane widths from 12 ft to 11 ft due to a Value Engineering Study Implementation.
- The typical section for Atlanta Highway is to be revised to remove the 4 ft bike lanes due to a Value Engineering Study Implementation.
- Typical sections for Huntington Road, Jennings Mill Road and all minor side roads are to be revised to reduce the shoulder width from 16 ft to 10 ft, due to a Value Engineering Study Implementation. This is accomplished by reducing the width of the 6 ft grass

buffer area to 2 ft and the 2.5 ft grass area outside the sidewalk to 6 inches.

Reasons for changes:

ROW is the highest cost item on this project. Reducing the pavement section widths and shoulder widths will result in significant cost savings (pavement and ROW) and also reduce / minimize the amount of new ROW required to construct the project.
The bike lane would not tie to any proposed bike routes designated by GDOT or Athens-Clarke County.

Potential Environmental Impacts of Proposed Revision:

Since the proposed revision will reduce the overall foot print of the project, environmental effects are also reduced.

- **Have Proposed Revisions Been Reviewed by Environmental Staff (X) YES ( ) NO**
- **Environmental Responsibilities (Studies/Documents/Permits): GDOT**

Revised cost estimates:

- Construction
  - Base Construction Cost
    $17,914,809.66
  - Engineering and Inspection (5%)
    $895,740.48
  - Fuel & Asphalt Adjustment
    $3,948,359.75
  - Total Construction Cost (with NO construction contingencies)
    $22,758,909.89
- Right-of-Way
  $8,238,000
- Utilities (Reimbursable)
  $0,000,000
- Utility Contingencies
  $0,000,000

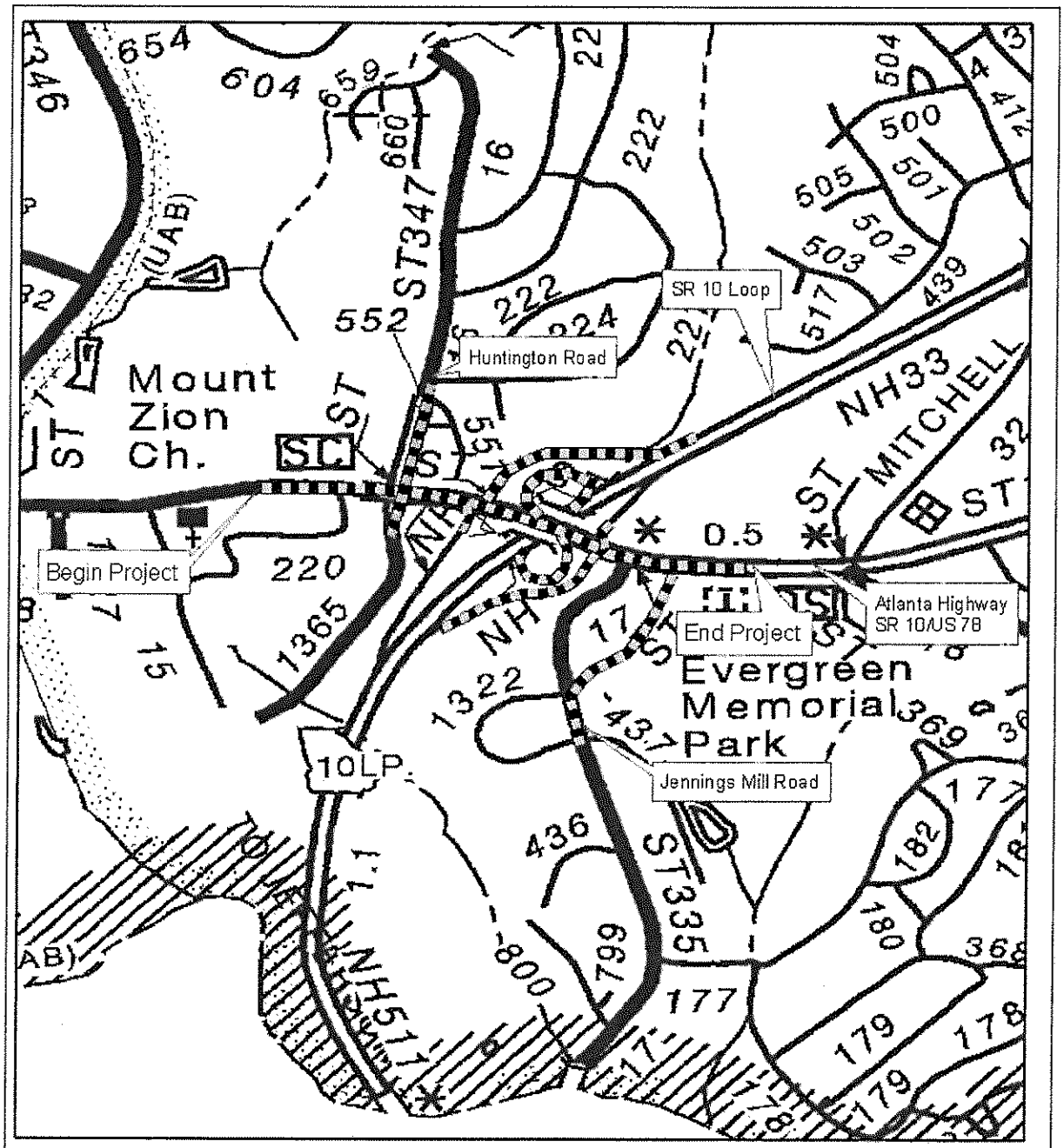
Recommendation: It is recommended that the proposed revision to the concept be approved for implementation.

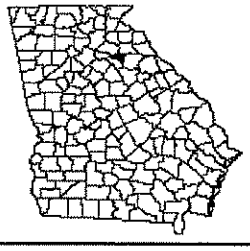
Attachments:

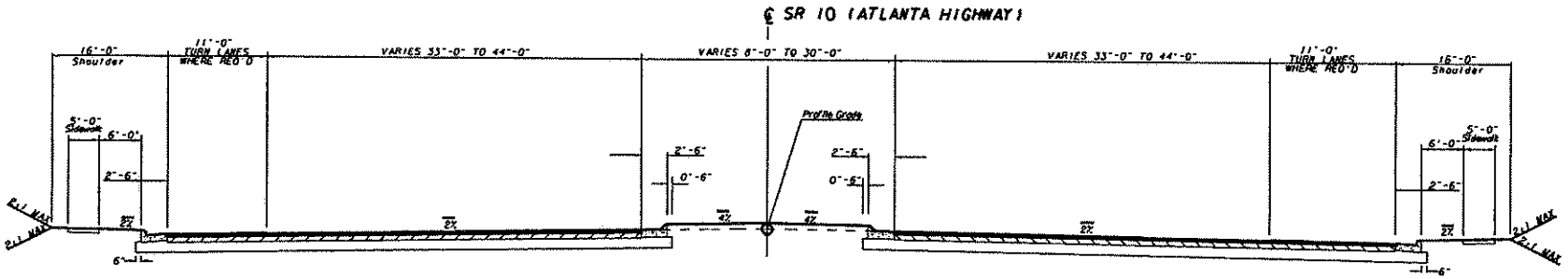
1. Location map
2. Roadway Typical Section
3. Cost Estimate Summary
4. Construction Cost Estimate
5. Fuel & Asphalt Adjustment
6. Right of Way Cost Estimate
7. VE Study Implementation Letter
8. Traffic Diagram

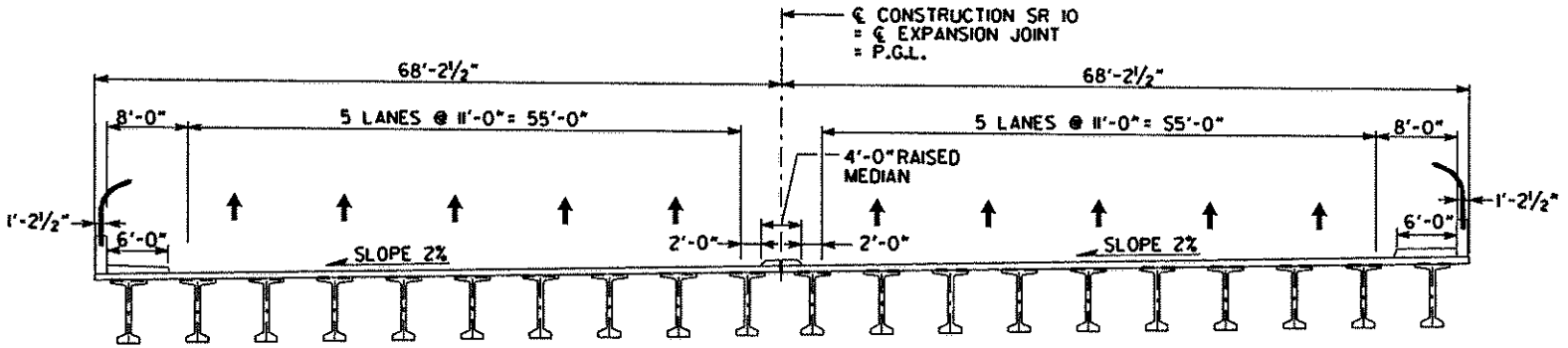
Concur: _____
Director of Engineering

Approve: _____ **Date:** _____
Chief Engineer



N	Clarke County Project NH-003-3(53) PI No. 122890 SR 10 Loop/Atlanta Highway Interchange Improvements	Project Location Map Scale 0 570 1,140 1,710 Feet	





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

BEGIN LIMIT OF ACCESS..... BLA
END LIMIT OF ACCESS..... ELA
LIMIT OF ACCESS
R/W AND LIMIT OF ACCESS
EXISTING R/W LINE
FIELD FENCING

Heath & Lineback Engineers
INCORPORATED

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: CONSULTANT DESIGN

TYPICAL SECTIONS
ATLANTA HIGHWAY
SR 10 LOOP/ATLANTA HIGHWAY INTERCHANGE

DRAWING NO. 5-01

4/24/2011 USER: fallar 3:19:08 PM PENTBLL

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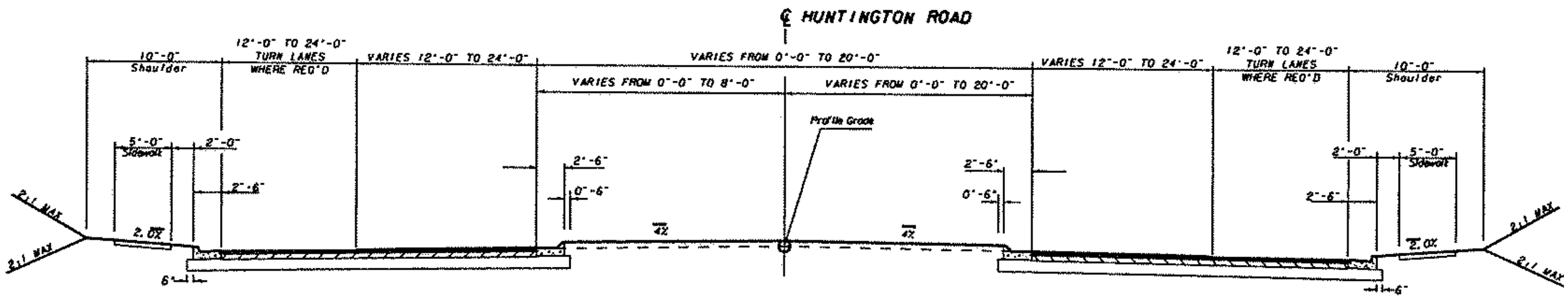
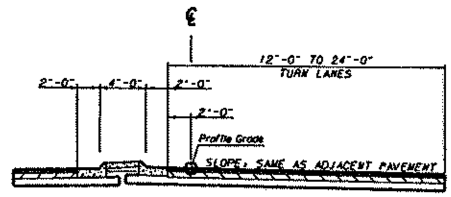
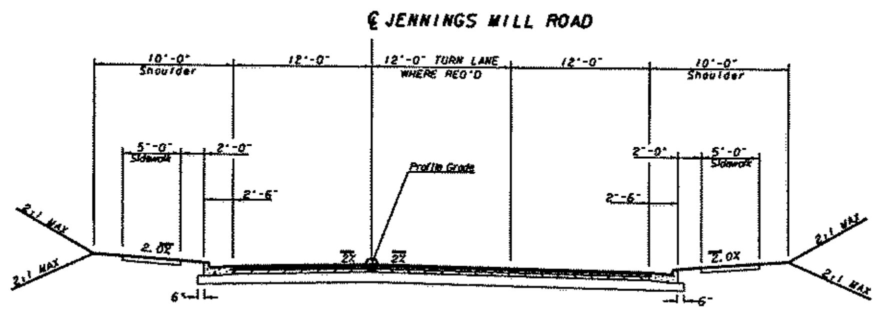
COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
CLARKE	NH000-0003-03(053)		





DETAIL FOR LEFT TURN LANES



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

BEGIN LIMIT OF ACCESS............BLA
END LIMIT OF ACCESS............ELA
LIMIT OF ACCESS
R/W AND LIMIT OF ACCESS
EXISTING R/W LINE
FIELD FENCING

Heath & Lineback Engineers INCORPORATED 2390 CANTON ROAD, BUILDING 200 MARIETTA, GEORGIA 30066-5393

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: CONSULTANT DESIGN
TYPICAL SECTIONS
SIDE ROADS
SR 10 LOOP/ATLANTA HIGHWAY INTERCHANGE

DRAWING No. 5-02

Print Form

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE PROJECT No. NH000-0003-30(053) , Clarke **OFFICE** GDOT,OPD

SR 10 Loop at US78/SR10(Atlanta Highway) Interchange Improvement **DATE** 11-6-2010

P.I. No. 122890

FROM Bobby Hilliard, P.E., State Program Design Engineer

TO Ronald E. Wishon, Project Review Engineer

SUBJECT REVISIONS TO PROGRAMMED COSTS

MNGT LET DATE 5-20-2011

PROJECT MANAGER Robert Murphy

MNGT R/W DATE 7-17-2009

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION	$23,036,847.09	DATE 5-14-2009
RIGHT OF WAY	$11,533,400	DATE 5-14-2009
UTILITIES	$0,000,000	DATE 5-14-2009

REVISED COST ESTIMATES

CONSTRUCTION*	$22,758,909.89
RIGHT OF WAY	$8,238,000
UTILITIES	$No Change

* Costs contain 5 % Engineering and Inspection

REASON FOR COST INCREASE

Revised: September 27, 2010

CONTINGENCY SUMMARY

Construction Cost Estimate:	$ 17,914,809.66	(Base Estimate)
Engineering and Inspection:	$ 895,740.48	(Base Estimate x 5 %)
Total Fuel Adjustment	$ 1,456,682.48	(From attached worksheet)
Total Liquid AC Adjustment	$ 2,491,677.27	(From attached worksheet)
Construction Total:	**$** 22,758,909.89	

REIMBURSABLE UTILITY COST

Utility Owner	Reimbursable Cost

Attachments

c: Genetha Rice-Singleton, State Program Control Administrator

STATE HIGHWAY AGENCY

DATE : 01/26/2011
PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 122890 SPEC YEAR: 01
DESCRIPTION: NH000-0003-03(053) - CLARKE
US78/SR10 (ATLANTA HWY) & SR 10 LOOP INTERCHANGE INPROVEMENT

ITEMS FOR JOB 122890

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - 122890	1.000	250000.00	250000.00
0007	150-5010		EA	TRAF CTRL,PORTABLE IMPACT ATTN	7.000	7694.05	53858.39
0010	153-1300		EA	FIELD ENGINEERS OFFICE TP 3	1.000	79134.11	79134.11
0015	201-1500		LS	CLEARING & GRUBBING - 122890	1.000	300000.00	300000.00
0020	208-0100		CY	IN PLACE EMBANKMENT	125114.000	5.84	731252.54
0025	318-3000		TN	AGGR SURF CRS	3500.000	14.68	51402.82
0030	433-1100		SY	REF CONC APPR SL/INCL CURB	823.000	189.43	155908.08
0035	441-0104		SY	CONC SIDEWALK, 4 IN	7618.000	22.63	172459.79
0038	441-0301		EA	CONC SPILLWAY, TP 1	11.000	2036.25	22398.83
0040	441-0302		EA	CONC SPILLWAY, TP 2	1.000	2075.90	2075.91
0045	441-0740		SY	CONC MEDIAN, 4 IN	7311.000	23.46	171563.80
0050	441-4020		SY	CONC VALLEY GUTTER, 6 IN	49.000	35.35	1732.46
0055	441-6222		LF	CONC CURB & GUTTER/ 8"X30"TP2	19013.000	10.29	195706.51
0056	441-6740		LF	CONC CURB & GUTTER/ 8"X30" TP7	1535.000	11.46	17603.63
0060	456-2012		GLM	INTENT. RUMB. STRIPS - GRND-IN-PL (CONT)	1.400	764.77	1070.68
0065	643-0010		LF	FIELD FENCE WOVEN WIRE	3244.000	5.41	17564.22
0075	620-0100		LF	TEMP BARRIER, METHOD NO. 1	7560.000	20.26	153194.10
0080	634-1200		EA	RIGHT OF WAY MARKERS	192.000	82.85	15908.06
0082	436-1000		LF	ASPH CONC CURB - 4 IN	4584.000	11.81	54180.36
0085	641-1100		LF	GUARDRAIL, TP T	464.000	37.82	17552.83
0090	641-1200		LF	GUARDRAIL, TP W	9176.000	13.03	119629.44
0095	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	8.000	651.86	5214.90
0100	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	26.000	1800.11	46802.87
0105	643-8200		LF	BARRIER FENCE (ORANGE), 4 FT	5568.000	1.50	8363.53
0110	500-3101		CY	CLASS A CONCRETE	28.000	422.44	11828.39
0115	511-1000		LB	BAR REINF STEEL	1992.000	0.81	1617.05
0117	610-9099		LS	REM WINGWALLS/PARAPETS, STA - 168+95 LT, SR 10 LOOP	1.000	2500.00	2500.00
0125	550-1180		LF	STM DR PIPE 18",H 1-10	10093.000	26.05	262925.68
0126	550-1181		LF	STM DR PIPE 18",H 10-15	386.000	30.67	11842.28
0127	550-1183		LF	STM DR PIPE 18",H 20-25	92.000	37.42	3442.68
0130	550-1240		LF	STM DR PIPE 24",H 1-10	2178.000	33.92	73888.45
0131	550-1241		LF	STM DR PIPE 24",H 10-15	229.000	30.90	7077.98
0132	550-1243		LF	STM DR PIPE 24",H 20-25	188.000	48.63	9143.94
0135	550-1300		LF	STM DR PIPE 30",H 1-10	739.000	43.60	32222.74
0140	550-1360		LF	STM DR PIPE 36",H 1-10	516.000	51.02	26327.67
0141	550-1361		LF	STM DR PIPE 36",H 10-15	222.000	62.51	13878.70
0143	550-1480		LF	STM DR PIPE 48",H 1-10	87.000	69.51	6047.80
0145	550-4215		EA	FLARED END SECT 15 IN, ST DR	1.000	434.29	434.30
0150	550-4218		EA	FLARED END SECT 18 IN, ST DR	13.000	474.64	6170.33
0155	550-4224		EA	FLARED END SECT 24 IN, ST DR	12.000	627.20	7526.49
0160	550-4230		EA	FLARED END SECT 30 IN, ST DR	4.000	665.25	2661.01
0165	550-4236		EA	FLARED END SECT 36 IN, ST DR	5.000	939.44	4697.25
0170	668-1100		EA	CATCH BASIN, GP 1	110.000	1980.10	217811.86
0175	668-1110		LF	CATCH BASIN, GP 1, ADDL DEPTH	153.000	154.90	23700.90

STATE HIGHWAY AGENCY

DATE : 01/26/2011
PAGE : 2

JOB ESTIMATE REPORT

0176	668-1200		EA	CATCH BASIN, GP 2	6.000	2243.72	13462.33
0177	668-1210		LF	CATCH BASIN, GP 2, ADDL DEPTH	37.000	225.62	8348.28

0180	668-2100	EA	DROP INLET, GP 1	71.000	1687.95	119844.48
0185	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	74.000	150.26	11119.28
0186	668-2200	EA	DROP INLET, GP 2	1.000	2886.11	2886.11
0187	668-2210	LF	DROP INLET, GP 2, ADDL DEPTH	2.000	230.41	460.82
0190	668-4300	EA	STORM SEW MANHOLE, TP 1	19.000	1777.60	33774.51
0195	668-4311	LF	ST SEW MANHOLE,TP 1,A DEP,CL 1	21.000	166.23	3491.01
0196	668-4312	LF	ST SEW MANHOLE,TP 1,A DEP,CL 2	50.000	181.85	9092.96
0198	500-3101	CY	CLASS A CONCRETE	8.000	422.44	3379.54
0199	511-1000	LB	BAR REINF STEEL	49.000	1.04	51.30
0200	310-1101	TN	GR AGGR BASE CRS, INCL MATL	56951.000	13.64	777079.31
0205	400-3206	TN	ASPH CONC 12.5 MM OGFC,GP 2,INCL PMBM&HL	3646.000	80.60	293900.23
0210	402-1812	TN	RECYL AC LEVELING,INC BM&HL	43804.000	58.04	2542705.24
0215	402-3121	TN	RECYL AC 25MM SP,GP1/2,BM&HL	21148.000	51.89	1097480.11
0220	402-3130	TN	RECYL AC 12.5MM SP,GP2,BM&HL	2858.000	62.68	179165.33
0225	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	11530.000	55.96	645272.30
0227	402-3600	TN	RECY AC 12.5,SMA,GP2 ON,INCLP-,BM&HL	6035.000	80.00	482800.00
0230	413-1000	GL	BITUM TACK COAT	11061.000	2.08	23086.85
0232	430-0200	SY	PLN PC CONC PVMT/CL1C/ 10" TK	25599.000	40.00	1023960.00
0245	500-0100	SY	GROOVED CONCRETE	810.000	5.69	4610.55
0250	211-0200	CY	BR EXCAV, GRADE SEPARATION	128.000	32.22	4125.21
0255	211-0200	CY	BR EXCAV, GRADE SEPARATION	96.000	34.23	3287.03
0260	441-0004	SY	CONC SLOPE PAV, 4 IN	926.000	43.36	40157.02
0265	441-0004	SY	CONC SLOPE PAV, 4 IN	1005.000	43.17	43388.88
0270	500-0100	SY	GROOVED CONCRETE	2000.000	4.86	9737.86
0275	500-0100	SY	GROOVED CONCRETE	2000.000	4.86	9737.86
0280	500-1006	LS	SUPERSTR CONCRETE,CL AA,BR NO- 1 LT	749.000	625.14	468229.86
0285	500-1006	LS	SUPERSTR CONCRETE,CL AA,BR NO- 1 RT	737.000	625.14	460728.18
0290	500-3002	CY	CL AA CONCRETE	216.000	493.16	106524.00
0295	500-3002	CY	CL AA CONCRETE	202.000	493.16	99619.67
0300	507-9033	LF	PSC BEAMS, AASHTO, BULB TEE, 74"	2960.000	207.93	615500.42
0305	507-9033	LF	PSC BEAMS, AASHTO, BULB TEE, 74"	2960.000	207.93	615500.42
0310	511-1000	LB	BAR REINF STEEL	35463.000	0.66	23622.97
0315	511-1000	LB	BAR REINF STEEL	35099.000	0.66	23396.99
0320	511-3000	LS	SUPERSTR REINF STEEL, BR NO - 1 LT	139591.000	0.64	89338.24
0325	511-3000	LS	SUPERSTR REINF STEEL, BR NO - 1 RT	139039.000	0.64	88984.96
0330	520-1151	LF	PIL-IN-PL,STEEL H,HP 14 X 89	2190.000	46.73	102342.14
0335	520-1151	LF	PIL-IN-PL,STEEL H,HP 14 X 89	2560.000	44.87	114879.54
0340	520-4151	EA	LOAD TEST, STEEL H, HP 14 X 89	1.000	1.09	1.10
0345	520-4151	EA	LOAD TEST, STEEL H, HP 14 X 89	1.000	1.09	1.10
0350	540-1102	LS	REM OF EX BR, BR NO - 1 LT	1.000	100000.00	100000.00
0355	540-1102	LS	REM OF EX BR, BR NO - 1 RT	1.000	100000.00	100000.00
0360	544-1000	LS	DECK DRAIN SYSTEM, BR NO - 1 LT	1.000	35000.00	35000.00
0365	544-1000	LS	DECK DRAIN SYSTEM, BR NO - 1 RT	1.000	35000.00	35000.00
0370	643-1152	LF	CH LK FEN,ZC COAT, 6', 9 GA	291.000	27.38	7967.89
0375	643-1152	LF	CH LK FEN,ZC COAT, 6', 9 GA	291.000	27.38	7967.89
0377	163-0541	EA	CONSTR & REM ROCK FILTER DAMS	15.000	285.16	4277.43
0380	163-0232	AC	TEMPORARY GRASSING	20.000	295.87	5917.48
0385	163-0240	TN	MULCH	585.000	153.43	89757.59
0390	163-0300	EA	CONSTRUCTION EXIT	24.000	996.31	23911.61
0395	163-0503	EA	CONSTR AND REMOVE SILT CONTROL GATE,TP	22.000	321.46	7072.18

			3			
0400	163-0520	LF	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	954.000	10.86	10362.31
0405	163-0523	EA	CONSTR AND REM TEMP DCH CK - TP C SLT FN	884.000	141.17	124798.50
0407	163-0527	EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	110.000	193.95	21335.51
0409	163-0529	LF	CNST/REM TEMP SED BAR OR BLD STRW CK DM	277.000	3.44	953.18
0410	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	186.000	139.43	25934.27

0415	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	25095.000	0.53	13463.72
0420	165-0041	LF	MAINT OF CHECK DAMS - ALL TYPES	20200.000	0.62	12674.69
0422	165-0087	EA	MAINT OF SILT CONTROL GATE, TP 3	22.000	94.06	2069.54
0425	165-0070	LF	MAINT OF BALED STRAW EROSION CHECK	139.000	1.58	220.33
0430	165-0101	EA	MAINT OF CONST EXIT	24.000	415.28	9966.77
0435	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	93.000	44.95	4181.17
0440	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	2.000	525.82	1051.64
0445	167-1500	MO	WATER QUALITY INSPECTIONS	28.000	390.29	10928.24
0450	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	50190.000	2.57	129063.59
0452	441-0204	SY	PLAIN CONC DITCH PAVING, 4 IN	8318.000	24.53	204090.95
0455	603-2180	SY	STN DUMPED RIP RAP, TP 3, 12"	295.000	33.16	9784.23
0460	603-7000	SY	PLASTIC FILTER FABRIC	295.000	3.21	947.46
0465	700-6910	AC	PERMANENT GRASSING	39.000	574.54	22407.19
0470	700-7000	TN	AGRICULTURAL LIME	121.000	45.55	5512.26
0475	700-7010	GL	LIQUID LIME	98.000	18.55	1818.19
0480	700-8000	TN	FERTILIZER MIXED GRADE	39.000	410.63	16014.74
0485	700-8100	LB	FERTILIZER NITROGEN CONTENT	1950.000	1.71	3336.12
0490	710-9000	SY	PERM SOIL REINFORCING MAT	200.000	4.36	873.53
0495	715-2200	SY	BITUM TRTD ROVING, WATERWAYS	551.000	1.10	608.57
0500	716-2000	SY	EROSION CONTROL MATS, SLOPES	20226.000	0.89	18109.75
0505	615-1200	LF	DIRECTIONAL BORE - 3"	1055.000	10.37	10945.23
0510	647-2160	EA	PULL BOX, PB-6	11.000	1116.05	12276.58
0515	647-2170	EA	PULL BOX, PB-7	4.000	1890.63	7562.55
0520	682-6222	LF	CONDUIT, NONMETL, TP 2, 2 IN	1820.000	5.26	9583.52
0525	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	925.000	3.50	3240.77
0530	935-1113	LF	OUT PLNT FBR OPT CBL,LOOSE TB,SM,24 FBR	3065.000	2.15	6615.96
0535	935-1511	LF	OUT PLNT FBR OPT CBL,DROP,SM,6 FBR	60.000	3.24	194.85
0540	935-3101	EA	FIBER OPTIC CLOSURE,UNDRGRD,6 FIBER	4.000	612.11	2448.46
0545	935-3602	EA	FBR. OP. CLOS., FDC PRE-TERM., TYP. A, 6	4.000	605.12	2420.51
0550	935-4010	EA	FIBER OPTIC SPLICE, FUSION	14.000	62.12	869.74
0555	935-6562	EA	EXT TRNSCVR,DRP&RPT,1310SM,(SIGNAL JOBS)	4.000	1926.36	7705.47
0557	935-8000	LS	TESTING	1.000	3000.00	3000.00
0560	500-2110	LF	CONCRETE PARAPET, SPCL DES	1329.000	259.86	345366.49
0565	500-3200	CY	CL B CONC	25.000	300.52	7513.11
0570	515-2020	LF	GALV STEEL PIPE HDRAIL,2",ROUD	155.000	49.46	7666.38
0575	516-1100	LF	ALUM HANDRAIL, STD 3626	1329.000	50.21	66733.14
0580	621-3021	LF	CONCRETE BARRIER, TYPE 21	303.000	184.00	55752.00
0585	621-3022	LF	CONCRETE BARRIER, TYPE 22	255.000	362.00	92310.00
0587	621-3125	LF	CONC BARRIER, TP 25S, MODIFIED	268.000	354.22	94932.15
0590	621-4021	LF	CONCRETE SIDE BARRIER, TY 2A	676.000	373.41	252428.83

0595	621-4022	LF	CONCRETE SIDE BARRIER, TY 2B	889.000	562.73	500267.49
0600	621-4023	LF	CONCRETE SIDE BARRIER, TY 2C	865.000	700.22	605691.82
0605	621-4062	LF	CONCRETE SIDE BARRIER, TY 6B	45.000	425.50	19147.50
0610	621-4063	LF	CONCRETE SIDE BARRIER, TY 6C	149.000	631.50	94093.50
0615	615-1200	LF	DIRECTIONAL BORE - 5 IN	279.000	12.21	3408.06
0620	636-1041	SF	HWY SIGNS,TP 2MAT,REFL SH TP 9	124.000	35.54	4406.99
0625	639-4004	EA	STRAIN POLE, TP IV	4.000	5492.26	21969.06
0630	639-4014	EA	STR POLE,TP 4,INCL LUMIN. ARM	12.000	6417.22	77006.73
0635	647-1000	LS	TRAF SIGNAL INSTALLATION NO - 1	1.000	100000.00	100000.00
0640	647-1000	LS	TRAF SIGNAL INSTALLATION NO - 2	1.000	100000.00	100000.00
0645	647-1000	LS	TRAF SIGNAL INSTALLATION NO - 3	1.000	100000.00	100000.00
0650	647-1000	LS	TRAF SIGNAL INSTALLATION NO - 4	1.000	100000.00	100000.00
0655	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	558.000	3.73	2083.16
0660	938-1100	EA	INT VIDEO DET SYS ASMBLY, TP A	19.000	5801.14	110221.66
0665	938-1200	EA	PROGRAMMING MONITOR, TYPE A	1.000	362.03	362.03
0670	938-1210	EA	OUTPUT EXPANSION MDDULE, TP A	3.000	482.05	1446.17
0675	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	1478.000	12.05	17816.76
0680	636-1033	SF	HWY SIGNS, TP1MAT,REFL SH TP 9	230.000	19.30	4440.18

0684	636-2070	LF	GALV STEEL POSTS, TP 7	1644.000	6.78	11148.64
0685	636-2080	LF	GALV STEEL POSTS, TP 8	144.000	8.91	1283.04
0689	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 1	1.000	61100.00	61100.00
0690	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 2	1.000	61100.00	61100.00
0694	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 3	1.000	61100.00	61100.00
0695	638-1001	LS	STR SUPPORT OVHD SIGN,TP I,STA 4	1.000	61100.00	61100.00
0700	653-0120	EA	THERM PVMT MARK, ARROW, TP 2	71.000	67.50	4792.92
0705	653-0130	EA	THERM PVMT MARK, ARROW, TP 3	9.000	78.47	706.27
0710	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	32815.000	0.25	8203.75
0715	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	35837.000	0.25	8959.25
0720	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	1005.000	3.52	3538.65
0725	653-1804	LF	THERM SOLID TRAF STRIPE, 8",WH	9793.000	1.62	15940.16
0730	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	24805.000	0.15	3807.82
0735	653-6004	SY	THERM TRAF STRIPING, WHITE	2057.000	2.73	5634.62
0740	653-6006	SY	THERM TRAF STRIPING, YELLOW	226.000	2.98	674.88
0745	654-1001	EA	RAISED PVMT MARKERS TP 1	1921.000	2.87	5527.62
0750	654-1003	EA	RAISED PVMT MARKERS TP 3	70.000	3.86	270.82
0755	432-0207	SY	MILL ASPH CONC PVMT/ 1.75" DEP	4074.000	1.00	4074.00
0760	432-0214	SY	MILL ASPH CONC PVMT, 3.5" DPTH	29059.000	1.67	48767.69
0765	432-5010	SY	MILL ASPH CONC PVMT,VARB DEPTH	8110.000	2.68	21738.69
0770	446-1100	LF	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	14923.000	2.72	40638.16

ITEM TOTAL	17914809.66
INFLATED ITEM TOTAL	17914809.66

TOTALS FOR JOB 122890

ESTIMATED COST:	17914809.70
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	17914809.70

Date 2/11/2011

P.I. Number 122890 County CLARKE

Project Number NH000-0003-03(053)

Special Provision, Section 109-Measurement and Payment

FUEL PRICE ADJUSTMENT (*ENGLISH 125% MAX)*

ENTER FPL DIESEL	3.254
ENTER FPM DIESEL	7.322

ENTER FPL UNLEADED	2.99
ENTER FPM UNLEADED	6.7275

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

INCREASE ADJUSTMENT
125.00%

INCREASE ADJUSTMENT
125.00%

ROADWAY ITEMS	QUANTITY	DIESEL FACTOR	GALLONS DIESEL	UNLEADED FACTOR	GALLONS UNLEADED	REMARKS
Excavations paid as specified by Sections 205 (CUBIC YARD)		0.29		0.15		
Excavations paid as specified by Sections 206 (CUBIC YARD)		0.29		0.15		
GAB paid as specified by the ton under Section 310 (TON)	56951.000	0.29	16515.79	0.24	13668.24	
Hot Mix Asphalt paid as specified by the ton under Sections 400 (TON)	3646.000	2.90	10573.40	0.71	2588.66	
Hot Mix Asphalt paid as specified by the ton under Sections 402 (TON)	85375.000	2.90	247587.50	0.71	60616.25	
PCC Pavement paid as specified by the square yard under Section 430 (SY)	25599.000	0.25	6399.75	0.20	5119.80	

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Bridge Excavation (CY) Section 211	224.00	34.23	7.6675	8.00	61.34	1.50	11.50	
Class __Concrete (CY) Section 500	25.00	300.52	7.5130	8.00	60.10	1.50	11.27	Class B
Class __Concrete (CY) Section 500	37.00	422.44	15.6303	8.00	125.04	1.50	23.45	Class A
Class __Concrete (CY) Section 500	418.00	193.16	80.7409	8.00	645.93	1.50	121.11	Class AA
Superstru Con Class__(CY) Section 500	1486.00	625.14	928.9580	8.00	7431.66	1.50	1393.44	SS Class AA
Superstru Con Class__(CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500				8.00		1.50		
Concrete Handrail (LF) Section 500				8.00		1.50		
Concrete Barrier (LF) Section 500				8.00		1.50		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS

Stru Steel Plan Quantity (LB) Section 501	278630.00	0.64	178.3232	8.00	1426.59	1.50	267.48	
Stru Steel Plan Quantity (LB) Section 501				8.00		1.50		
PSC Beams_____ (LF) Section 507	5920.00	207.93	1230.9456	8.00	9847.56	1.50	1846.42	72 BT
PSC Beams_____ (LF) Section 507				8.00		1.50		
PSC Beams_____ (LF) Section 507				8.00		1.50		
Stru Reinf Plan Quantity(LB) Section 511	70562.00	0.64	45.1597	8.00	361.28	1.50	67.74	
Stru Reinf Plan Quantity(LB) Section 511	278630.00	0.64	178.3232	8.00	1426.59	1.50	267.48	
Bar Reinf Steel (LB) Section 511	1900.00	0.64	1.2160	8.00	9.73	1.50	1.82	
Piling___inch (LF) Section 520	4750.00	174.41	828.4475	8.00	6627.58	1.50	1242.67	HP 14x89
Piling___inch (LF) Section 520				8.00		1.50		
Piling___inch (LF) Section 520				8.00		1.50		
Piling___inch (LF) Section 520				8.00		1.50		
Piling___inch (LF) Section 520				8.00		1.50		
Piling___inch (LF) Section 520				8.00		1.50		
Drilled Caisson,___ (LF) Section 524				8.00		1.50		
Drilled Caisson,___ (LF) Section 524				8.00		1.50		
Drilled Caisson,___ (LF) Section 524				8.00		1.50		
Pile Encasement,___(LF) Section 547				8.00		1.50		
Pile Encasement,___(LF) Section 547				8.00		1.50		

SUM QF DIESEL=	**309099.84**	**SUM QF UNLEADED=**	**87247.34**

DIESEL PRICE ADJUSTMENT($)	**$1,156,682.51**
UNLEADED PRICE ADJUSTMENT($)	**$299,999.97**

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

APPLICABLE TO CONTRACTS/PROJECTS CONTAINING THE 413 SPECIFICATION, SECTION 413.5.01 ADJUSTMENTS ASPHALT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT

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

ENTER APL **460** ENTER APM **1035**

125.00%	INCREASE ADJUSTMENT

L.I.N.	TYPE	TACK (GALLONS)	TACK (TONS)	REMARKS
4131000	PG 58-22	11061	47.5081	

TMT = **47.5081**

PRICE ADJUSTMENT($)	$26,224.47

400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX

ENTER APL **460** ENTER APM **1035**

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

125.00%	INCREASE ADJUSTMENT

L.I.N. / Spec Number	MIX TYPE	HMA	JMF AC%	AC	REMARKS
			5.00		
4021812		43804	5.00	2190.20	
4023121	25 mm SP	21148	5.00	1057.40	
4023130	12.5 mm SP	2858	5.00	142.90	
4023190	19 mm SP	11530	5.00	576.50	
4003206	12.5 mm OGFC	3646	5.00	182.30	
4003604	12.5 mm SMA	6342	5.00	317.10	
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			TMT =	**4466.40**	

PRICE ADJUSTMENT($)	$2,465,452.80

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

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

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

ENTER APL [ ] ENTER APM [ ]

MISSING APL OR APM	MISSING APL OR APM

Use this side for Asphalt Emulsion Only		
L.I.N.	TYPE	ASPHALT EMULSION (GALLONS)

TMT = [ ]

REMARKS:

Use this side for Asphalt Cement Only		
L.I.N.	TYPE	TACK (GALLONS)

TMT = [ ]

REMARKS:

MONTHLY PRICE ADJUSTMENT($)	MISSING APL OR APM

ADJUSTMENT SUMMARY

FUEL PRICE ADJUSTMENT (*ENGLISH 125% MAX)*

DIESEL PRICE ADJUSTMENT($)	$1,156,682.51
UNLEADED PRICE ADJUSTMENT($)	$299,999.97
ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125% MAX)	$26,224.47
400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX	$2,465,452.80
ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)	MISSING APL DR APM

REMARKS:

TOTAL ADJUSTMENTS	$3,948,359.75

DWM 10/08

Preliminary Right of Way Cost Estimate

Phil Copeland
Right of Way Administrator
By: Lashone Alexander

Date: November 5, 2010
Project: NH-003-3(53) Clarke UPDATE **P.I. Number:** 122890
Existing/Required R/W: Varies/Varies **No. Parcels:** 36
Project Termini : SR 10 Loop at Atlanta Highway Interchange
Project Description: 4 lane with median

Land:

Commercial			
R/W	124,580 sf @ $ 7.25/ sf =	$	903,200
ESMT	126,760 sf @ $ 7.25/ sf X 50% =	$	459,500
Residential			
R/W	4.34 ac. @ $ 30,000/ ac. =	$	130,200
ESMT	0.09 ac. @ $ 30,000/ ac. X 50% =	$	1,400

$ 1,494,300

Improvements :
Signs, Fencing and Misc. Site Improvements $ 307,500

Relocation:

2 Commercial @ $ 25,000 =	$ 50,000	
0 Residential @ $ 25,000 =	$ 0	
		$ 50,000

Damage :

0 Proximity	$ 0	
0 Cost to Cure	$ 0	
10Consequential	$ 1,470,000	
		$ 1,470,000

$ 3,321,800

Net Cost		$ 3,321,800
Scheduling Contingency	55 %	1,827,000
Adm/Court Cost	60	3,089,300
		$ 8,238,100

Total Cost $ 8,238,000

Note: The Market Appreciation (40%) is not included in this updated Preliminary Cost Estimate.

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: NH-003-3(53) Clarke
P. I. No.: 122890
U.S. 78/S.R. 10 Interchange

OFFICE: Engineering Services

DATE: December 5, 2007

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

TO: Babs Abubakari, P.E. State Consultant 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
A-2	Investigate a Developer Proposal to connect the Southbound Off Ramp to Huntington Court	$115,000	No	Would result in ramp traffic being in conflict with traffic entering and exiting the developed property which would be a safety concern.
A-7	Change the Urban Shoulder width from 16 feet to 10 feet	$204,000 (proposed) $102,000 (revised)	Yes/Partial	The shoulder width will remain 16 feet on the mainline to better accommodate Utility Relocations and will be changed to 10 feet on the side roads.
A-7A	Eliminate the 2 ½ foot grassed area between the sidewalk and Retaining Wall	$21,000	No	Since the 16 foot shoulder will be retained on the mainline this would not apply since this would cut the shoulder width to 13.5 feet on the mainline.
B-7	Shift the on-ramp location slightly to the West and use a 100 foot radius curve	$33,000 (proposed) $16,500 (revised)	Yes/Partial	The on-ramp location will stay the same but a 100 foot radius will be used.

ALT No.	Description	Savings PW & LCC	Implement	Comments
B-7A	Close existing driveway at the Logans Steakhouse and provide a wider common access at Sta. 60+00 ± Lt. for Logans as well as adjacent property owners.	-54,000 (Cost Increase)	Yes	This is recommended for safety reasons. Access agreements should be obtained from the property owners to allow this to occur.
B-10	Eliminate the 4 foot Bike Lanes	$473,000 (proposed) $687,100 (revised)	Yes	This should be done. The revised cost savings includes bridge savings which was not initially included.
B-11	Reduce the 12 foot travel lanes to 11 feet	$497,000 (proposed) $718,900	Yes	This should be done. The revised cost savings includes bridge savings which was not initially included.
B-12	Close the Median Opening at Sta. 68+75 and provide a Type B Median Opening at Timothy Road and Jennings Mill Road	-$186,000 (proposed) $20,000 (revised)	Yes/partial	The median opening should be closed but the Type B Median Opening at Timothy Road and Jennings Mill Road will not be done since it would involve additional Right of Way impacts.
F-1	Eliminate the Concrete Curb and Gutter from a section on Jennings Mill Road	$177,000	No	A land use permit utilizing an urban section to minimize impacts on the cemetery has already been obtained from the court system. Since a cemetery is involved any changes would require another permit delaying the project schedule.
C-2	Use MSE Walls and two - 93 foot spans and delete Bike Lanes on the bridge over S.R. 10	$1,845,000	No	A more detailed cost estimate done by the Design Consultant revealed that this VE Alternative is more expensive than what was proposed.
C-2A	Use MSE Walls and one - 165 foot span and delete Bike Lanes on the bridge over S.R. 10.	$1,376,000	No	A more detailed cost estimate done by the Design Consultant revealed that this VE Alternative is more expensive than what was proposed.
C-2B	Use two - 57 foot spans and two - 93 foot spans and delete the Bike Lanes on the	$1,231,000	No	A more detailed cost estimate done by the Design Consultant revealed that this VE Alternative is more expensive

ALT No.	Description	Savings PW & LCC	Implement	Comments
C-2C	Use two - 67.5 foot spans and one - 165 foot span and delete the Bike Lane on the bridge over S.R. 10	$675,000	No	A more detailed cost estimate done by the Design Consultant revealed that this VE Alternative is more expensive than what was proposed
A-1	Eliminate the short in-and-out steps in the Proposed Right of Way lines	Design Suggestion	Yes	This should be done.
B-2	Verify the superelevation match at the bridge	Design Suggestion	Yes	This should be done.
D-1	Review Drainage Structure locations and ensure they are within the Proposed Right of Way	Design Suggestion	Yes	This should be done.
E-1	Modify the Concrete Barrier End Treatments on the two Loop Ramps	Design Suggestion	Yes	This should be done.
1-1/2	Eliminate the Parapet and Pipe Handrail over the Retaining Walls	Design Suggestion	No	The Parapet and Pipe Handrail are required to provide pedestrian safety.

A meeting was held on November 29, 2007 to discuss the above recommendations. Allen Krivsky and Shawn Fleet with Heath and Lineback, Mike Haithcock with Consultant Design, and Brian Summers, Ron Wishon and Lisa Myers with Engineering Services were in attendance.

Additional information was provided on December 4, 2007.

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

Approved: _____ **Date:** 1/8/08

Gerald M. Ross, P. E., Chief Engineer

BKS/REW

Attachments

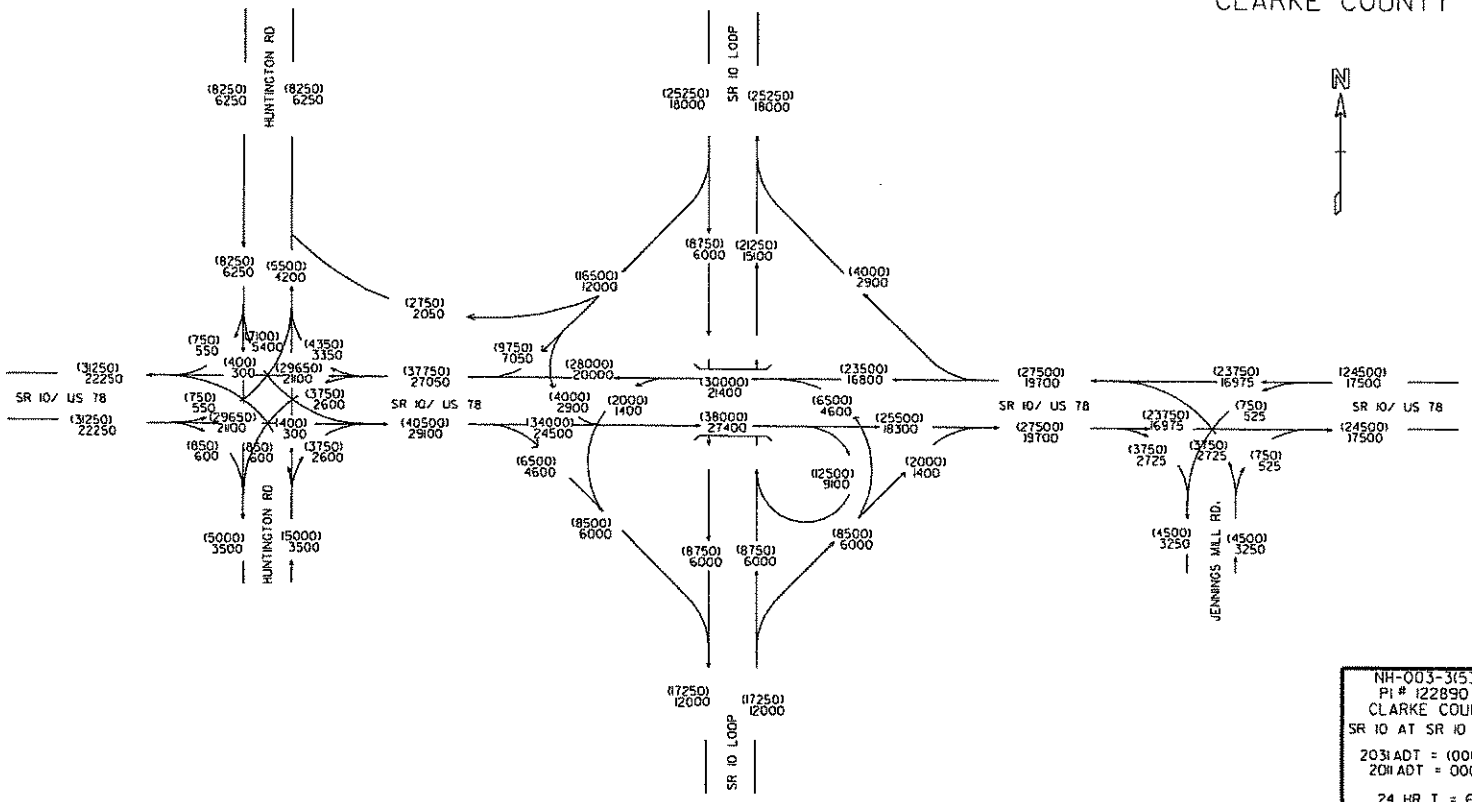
c: Gus Shanine
Todd Long
James Magnus
Randy Davis
Robert Simpson
Kevin DeWitt
Mike Hathcock
Doug Franks
Amber Perkins
Ken Wertho
Lisa Myers

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	NH000-0003-03-10531		

GEORGIA DEPARTMENT OF TRANSPORTATION

OFFICE OF ENVIRONMENT/LOCATION

ATHENS
CLARKE COUNTY



NH-003-3(53)
PI # 122890
CLARKE COUNTY
SR 10 AT SR 10 LOOP

203) ADT = (000)
20II ADT = 000

24 HR T = 6%
SU = 3.6%
COMB = 2.5%

RGL
2/06

LAND LOT NO. : N/A	REVISION DATES
LAND DISTRICT: 1	
GMD: 241	

Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD, BUILDING 200
MARIETTA, GEORGIA 30066-5203

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: CONSULTANT DESIGN
TRAFFIC DIAGRAM

SR 10 LOOP/ATLANTA
HIGHWAY INTERCHANGE

DRAWING NO. 10-02