ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE P. I. No. 0006041, Cherokee County
CSSTP-0006-00(041)
CR 779/Sixes Road @ I-575

OFFICE Preconstruction

DATE June 12, 2009

FROM Genetha Rice-Singleton, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED PROJECT CONCEPT REPORT

Attached for your files is the approval for subject project.

Attachment

DISTRIBUTION:

Ron Wishon
Glenn Bowman
Ken Thompson
Michael Henry
Keith Golden
Kent Sager
Paul Liles
Dewayne Comer
Tim Matthews
Brent Story
BOARD MEMBER

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE	CSSTP-0006-00(041) Cherokee County PI # 0006041 CR 779/Sixes Road @ I-575	**OFFICE** **DATE**	Road Design May 7, 2009

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

TO Genetha Rice-Singleton, Assistant Director of Preconstruction

SUBJECT **Revised Project Concept Report**

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

The original concept called for widening Sixes Road using 16 ft urban shoulders and a maximum allowable grade of 6%. The revised concept proposes using a 12 ft urban shoulder and a maximum allowable grade of 7%. The use of a 12 ft shoulder minimizes the impacts to environmental resources (Lebanon Methodist Church/Cemetery). The mainline will utilize a 6.2% grade in order to eliminate impacts to an existing side road.

The revised concept as presented herein and submitted for approval is consistent with the State Transportation Improvement Program (STIP).

Angela L. Alexander
State Transportation Planning Administrator

5-21-2009
Date

BAS:CAC:twm

Attachment: Revised Project Concept Report

cc: Ronald E. Wishon, State Project Review Engineer
Glenn Bowman, State Environmental/Location Engineer
Paul V. Liles, Jr., State Bridge Design Engineer
Keith Golden, State Traffic Safety and Design Engineer
Angela Alexander, State Transportation Planning Administrator
Angela Whitworth, Financial Management Administrator
Kent L. Sager, District 6 Engineer

RECEIVED
MAY 22 2009

REVISED PROJECT CONCEPT REPORT

Need and Purpose: The purpose of this project is to as widen Sixes Road within the study area to match the current four-lane projects to the east and west of the interchange as well as provide necessary improvements to accommodate traffic growth on this interchange as well. With projects underway to widen Sixes Road to a four-lane roadway immediately to the east and west of I-575, this project is needed in order to avoid a bottleneck condition along this roadway, which provides interstate access to this rapidly developing area of Cherokee County. With this interchange already experiencing congested conditions, the operational and capacity improvements provided by this project are essential to accommodate traffic growth and maintain safe conditions at this location. (See attached Need and Purpose)

Description of the proposed project:
The project is located in Cherokee County, between the Cities of Woodstock and Holly Springs, near M.P. 11 on I-575. The proposed project will modify the existing diamond interchange with Sixes Road. The existing bridge will be left in place; it will have two through lanes heading east and a single left turn lane onto I-575 NB. A proposed bridge over I-575 will be constructed north of the existing bridge, allowing for two through lanes heading west, and a double left turn onto I-575 SB. The two ramps on the south side of the interchange will be widened with asphalt pavement; the I-575 NB exit ramp will be widened to a two-lane exit, with a total of four lanes at its terminal with Sixes Road to allow for dual left and right turn lanes. The SB entrance ramp will have three lanes transitioning down to two lanes; this allows for a right thru lane from Sixes Road eastbound and the dual lefts from Sixes Road westbound. The two ramps on the north side of the interchange will be widened; the NB entrance ramp will have two lanes transitioning down to one lane, and the SB exit ramp will be a single lane ramp with three lanes at the terminal to allow for turn lanes for each turning movement.

Sixes Road will be widened to the north to tie to the proposed bridge, and will tie to the current construction projects on either side of the interchange. Both these projects will widen the existing 2-lane facility to a 4-lane urban section with a 20' raised median. The proposed project will taper from the full section across the bridges back to the 20' raised median section within the project limits.

Is the project located in a Non-attainment area? **__X__Yes** **_____No.**

PDP Classification: Major _X__ Minor _____
Federal Oversight: Full Oversight (X), Exempt ( ), State Funded ( ), or Other ( )

Functional Classification: *Sixes Road -Urban Major Collector; I-575 – Interstate Principal Arterial*

U. S. Route Number(s): *I-575* **State Route Number(s):** *SR 5*

Traffic (AADT):
I-575:
Current Year: (2012): 88,200 Design Year: (2032): 146,900

Sixes Road:
Current Year: (2012): 28,100 Design Year: (2032): 52,450

Proposed design features to be revised:

Sixes Road:

- Proposed typical section(s): *2 through lanes in each direction, raised median varies from 20' to 68' to accommodate up to three turning lanes at the interchange, curb and gutter with 16' urban shoulder with 5' sidewalks on each side.*
- Proposed Maximum grade Mainline: 5.5% Maximum grade allowable: 6%.

Revised design feature(s) to be approved:

Sixes Road:

- Proposed typical section(s): *2 through lanes in each direction, raised median varies from 20' to 68' to accommodate up to three turning lanes at the interchange, curb and gutter with 12' urban shoulder with 5' sidewalks on each side.*
- Proposed Maximum grade Mainline: 6.25% Maximum grade allowable: 7%.

Programmed/Schedule: P.E. Auth: 2008 R/W: 2009 2010 (Proposed) Construction: LR

VE Study Required Yes (X) No ( )

Revised cost estimates:

1. Construction cost including Fuel Index and Contingencies,
2. Right-of-Way, and
3. Utilities

Is the project located in a Non-attainment area? Yes. The proposed project is in conformance with the approved Planning Model. Both represent a widening project located on Sixes Road over I-75 in Cherokee County. The approved concept and model both widen from two to four lanes. The project has a Long Range construction date which is in line with the 2020 open to traffic year in the model.

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

Attachments:

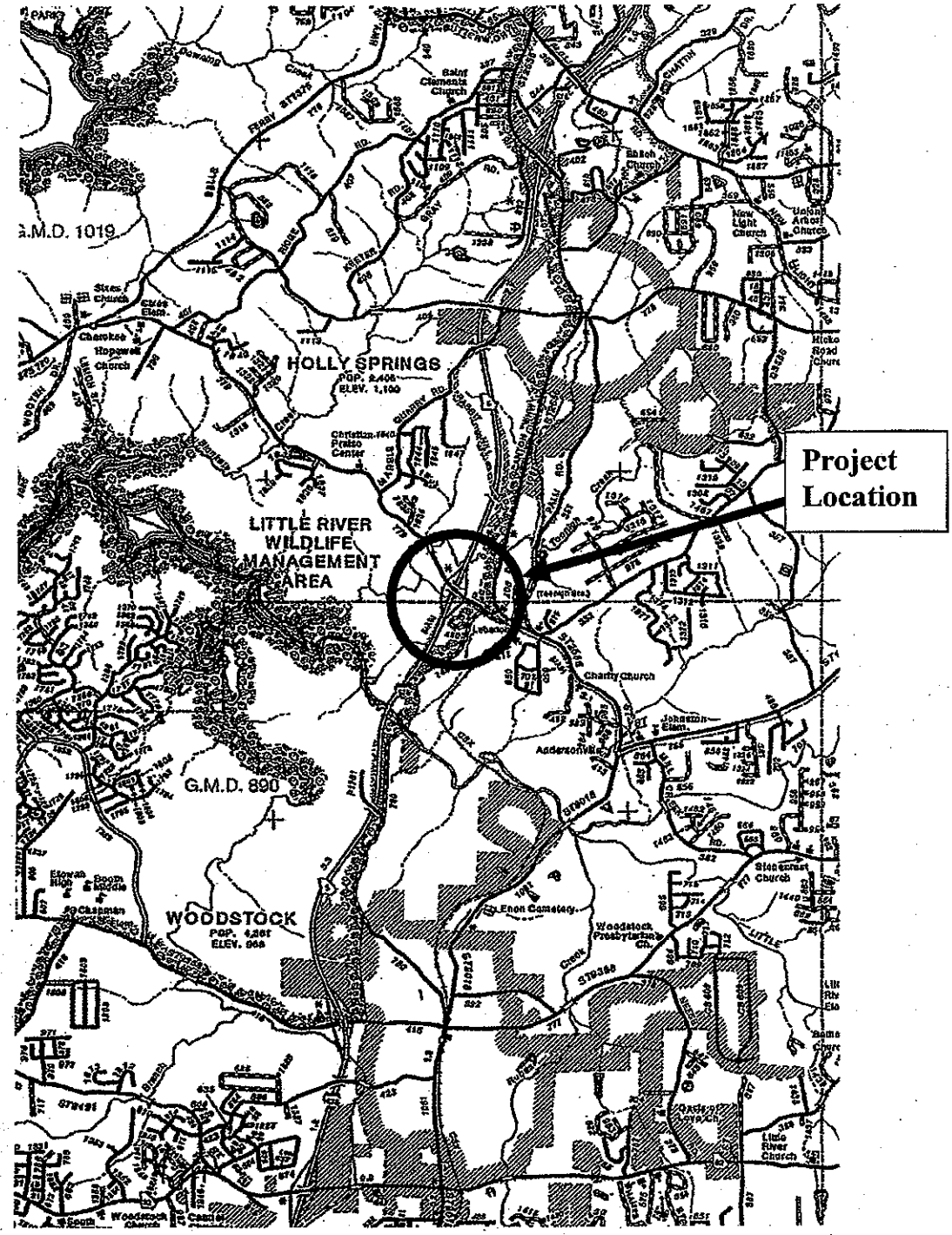
1. Sketch Map,
2. Cost Estimate,
3. Conforming plans network schematics showing thru lanes,
4. Typical Section.

Concur: for Director of Preconstruction

Approve: Richard Wayne Fedora for Division Administrator, FHWA

Approve: Chief Engineer

Location Sketch
PI# 0006041



DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE PROJECT No. PESTP-0006-00(041), Cherokee
CR 779/Sixes Road @ I-575
P.I. No. 0006041

OFFICE Road Design

DATE 5/6/2009

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

TO Ronald E. Wishon, State Project Review Engineer

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Tim W. Matthews, P.E.

MNGT LET DATE 10/15/2010

MNGT R/W DATE 10/16/2009

PROGRAMMED COST (TPro W/OUT INFLATION)		**LAST ESTIMATE UPDATE**
CONSTRUCTION	$14,702,629.00	DATE 1/6/2009
RIGHT OF WAY	$4,626,300.00	DATE 10/10/2009
UTILITIES	$300,300.00	DATE 1/6/2009

REVISED COST ESTIMATES

CONSTRUCTION*	$12,888,257.29
RIGHT OF WAY	$No Change
UTILITIES**	$No Change

* Costs contain 5% Engineering and Inspection and 5% Construction Contingencies and Fuel and Liquid AC Adjustments.

** Costs contain 30% contingency.

REASON FOR COST INCREASE Concept Report Revision

CONTINGENCY SUMMARY

Construction Cost Estimate:	$10,762,783.51 (Base Estimate)	
Engineering and Inspection:	$538,139.18	(Base Estimate x 5 %)
Construction Contingency:	$538,139.18	(Base Estimate x 5 %) (The Construction Contingency is based on the Project Improvement Type in TPro.)
Total Fuel Adjustment	$ 377,263.96	(From attached worksheet)
Total Liquid AC Adjustment	$ 671,931.47	(From attached worksheet)
Construction Total:	$12,888,257.29	
Utility Cost Estimate:	$231,000.00	
Utility Contingency:	$69,300.00	30 %
Utility Total:	$300,300.00	

REIMBURSABLE UTILITY COST

Utility Owner	Reimbursable Costs
Georgia Power Company	$231,000.00
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Attachments

cc: Genetha Rice - Singleton, Assistant Director of Preconstruction

Estimate Report for file "0006041_2009-04-20"

Section Roadway Items

Item Number	Quantity	Units	Unit Price	Item Description	Cost
150-1000	1	LS	750000.00	TRAFFIC CONTROL - CSSTP-0006-00(041)	750000.00
153-1300	1	EA	76009.21	FIELD ENGINEERS OFFICE TP 3	76009.21
201-1500	1	LS	900000.00	CLEARING & GRUBBING - CSSTP-0006-00 (041)	900000.00
210-0100	1	LS	1570519.19	GRADING COMPLETE - CSSTP-0006-00(041)	1570519.19
310-1101	35562	TN	21.75	GR AGGR BASE CRS, INCL MATL	773473.50
318-3000	200	TN	20.97	AGGR SURF CRS	4194.00
400-3624	792	TN	80.98	ASPH CONC 12.5 MM PEM, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME	64136.16
402-1812	38	TN	70.61	RECYCLED ASPH CONC LEVELING, INCL BITUM MATL & H LIME	2683.18
402-3121	18480	TN	74.50	RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME	1376760.00
402-3130	5077	TN	77.83	RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME	395142.91
402-3190	6769	TN	80.23	RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2,INCL BITUM MATL & H LIME	543076.87
413-1000	19618	GL	2.59	BITUM TACK COAT	50810.62
433-1000	678	SY	144.27	REINF CONC APPROACH SLAB	97815.06
441-0104	2940	SY	33.78	CONC SIDEWALK, 4 IN	99313.20
441-0301	4	EA	1958.86	CONC SPILLWAY, TP 1	7835.44
441-0748	2850	SY	53.93	CONCRETE MEDIAN, 6 IN	153700.50
441-6222	5620	LF	16.15	CONC CURB & GUTTER, 8 IN X 30 IN, TP 2	90763.00
441-6740	3971	LF	13.52	CONC CURB & GUTTER, 8 IN X 30 IN, TP 7	53687.92
550-1180	2413	LF	36.84	STORM DRAIN PIPE, 18 IN, H 1-10	88894.92
550-1240	79	LF	43.32	STORM DRAIN PIPE, 24 IN, H 1-10	3422.28
550-2180	65	LF	34.29	SIDE DRAIN PIPE, 18 IN, H 1-10	2228.85
550-4118	2	EA	408.89	FLARED END SECTION 18 IN, SIDE DRAIN	817.78
550-4218	3	EA	616.24	FLARED END SECTION 18 IN, STORM DRAIN	1848.72
550-4224	1	EA	698.66	FLARED END SECTION 24 IN, STORM DRAIN	698.66
620-0200	4000	LF	57.02	TEMPORARY BARRIER, METHOD NO. 2	228080.00
632-0003	4	EA	5413.82	CHANGEABLE MESSAGE SIGN, PORTABLE, TYPE 3	21655.28
634-1200	11	EA	97.36	RIGHT OF WAY MARKERS	1070.96
641-1100	70	LF	56.05	GUARDRAIL, TP T	3923.50
641-1200	4872	LF	18.23	GUARDRAIL, TP W	88816.56
641-5001	6	EA	686.63	GUARDRAIL ANCHORAGE, TP 1	4119.78
641-5012	5	EA	1862.80	GUARDRAIL ANCHORAGE, TP 12	9314.00
668-1100	19	EA	2471.01	CATCH BASIN, GP 1	46949.19
668-1110	16	LF	176.61	CATCH BASIN, GP 1, ADDL DEPTH	2825.76
668-2100	2	EA	2488.45	DROP INLET, GP 1	4976.90
668-2110	2	LF	222.43	DROP INLET, GP 1, ADDL DEPTH	444.86
668-5000	1	EA	1861.20	JUNCTION BOX	1861.20
				Section Sub Total:	**$7,521,869.96**

Section Bridge

Item Number	Quantity	Units	Unit Price	Item Description	Cost
500-2110	350	LF	222.25	CONCRETE PARAPET, SPCL DESIGN	77787.50
500-3002	240	CY	481.65	CLASS AA CONCRETE	115596.00
500-9000	1	Lump Sum	2255000.00	Bridge - Lump Sum	2255000.00
				Section Sub Total:	**$2,448,383.50**

Section Temporary Erosion Control Items

Item Number	Quantity	Units	Unit Price	Item Description	Cost
163-0232	7	AC	311.88	TEMPORARY GRASSING	2183.16
163-0240	336	TN	165.45	MULCH	55591.20
163-0300	4	EA	1174.43	CONSTRUCTION EXIT	4697.72
163-0503	2	EA	481.37	CONSTRUCT AND REMOVE SILT CONTROL GATE, TP 3	962.74
163-0527	79	EA	214.42	CONSTRUCT AND REMOVE RIP RAP CHECK DAMS, STONE PLAIN RIP RAP/SAND BAGS	16939.18
163-0528	3084	LF	3.74	CONSTRUCT AND REMOVE FABRIC CHECK DAM - TYPE C SILT FENCE	11534.16
163-0530	2000	LF	2.43	CONSTRUCT AND REMOVE BALED STRAW EROSION CHECK	4860.00
163-0550	27	EA	209.07	CONSTRUCT AND REMOVE INLET SEDIMENT TRAP	5644.89

165-0030	18600	LF	0.74	MAINTENANCE OF TEMPORARY SILT FENCE, TP C	13764.00
165-0041	2332	LF	1.90	MAINTENANCE OF CHECK DAMS - ALL TYPES	4430.80
165-0070	2000	LF	2.74	MAINTENANCE OF BALED STRAW EROSION CHECK	5480.00
165-0087	2	EA	114.66	MAINTENANCE OF SILT CONTROL GATE, TP 3	229.32
165-0101	4	EA	474.28	MAINTENANCE OF CONSTRUCTION EXIT	1897.12
165-0105	27	EA	82.23	MAINTENANCE OF INLET SEDIMENT TRAP	2220.21
167-1000	2	EA	483.11	WATER QUALITY MONITORING AND SAMPLING	966.22
167-1500	18	MO	718.48	WATER QUALITY INSPECTIONS	12932.64
171-0030	18600	LF	3.61	TEMPORARY SILT FENCE, TYPE C	67146.00
643-8200	2500	LF	2.38	BARRIER FENCE (ORANGE), 4 FT	5950.00
				Section Sub Total:	**$217,429.36**

Section Permanent Erosion Control Items

Item Number	Quantity	Units	Unit Price	Item Description	Cost
603-2180	32	SY	29.95	STN DUMPED RIP RAP, TP 3, 12 IN	958.40
603-7000	32	SY	4.31	PLASTIC FILTER FABRIC	137.92
700-6910	15	AC	792.72	PERMANENT GRASSING	11890.80
700-7000	44	TN	66.74	AGRICULTURAL LIME	2936.56
700-7010	36	GL	22.03	LIQUID LIME	793.08
700-8000	14	TN	405.48	FERTILIZER MIXED GRADE	5676.72
700-8100	726	LB	2.36	FERTILIZER NITROGEN CONTENT	1713.36
700-9300	1060	SY	3.57	SOD	3784.20
710-9000	150	SY	4.90	PERMANENT SOIL REINFORCING MAT	735.00
716-2000	68156	SY	0.96	EROSION CONTROL MATS, SLOPES	65429.76
				Section Sub Total:	**$94,055.80**

Section Signing & Marking

Item Number	Quantity	Units	Unit Price	Item Description	Cost
636-1020	190	SF	16.60	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 3	3154.00
636-1033	363	SF	20.14	HIGHWAY SIGNS, TP 1 MATL, REFL SHEETING, TP 9	7310.82
636-2070	624	LF	8.76	GALV STEEL POSTS, TP 7	5466.24
636-2080	30	LF	11.55	GALV STEEL POSTS, TP 8	346.50
636-2090	315	LF	9.35	GALV STEEL POSTS, TP 9	2945.25
636-5010	90	EA	46.74	DELINEATOR, TP 1	4206.60
636-5011	10	EA	9.80	DELINEATOR, TP 1A	98.00
636-5020	34	EA	28.17	DELINEATOR, TP 2	957.78
639-2002	836	LF	3.80	STEEL WIRE STRAND CABLE, 3/8 IN	3176.80
639-4002	4	EA	5600.00	STRAIN POLE, TP II	22400.00
639-4003	4	EA	6510.71	STRAIN POLE, TP III	26042.84
653-0110	6	EA	66.23	THERMOPLASTIC PVMT MARKING, ARROW, TP 1	397.38
653-0120	44	EA	72.94	THERMOPLASTIC PVMT MARKING, ARROW, TP 2	3209.36
653-0210	7	EA	101.73	THERMOPLASTIC PVMT MARKING, WORD, TP 1	712.11
653-1501	8540	LF	0.44	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, WHITE	3757.60
653-1502	5770	LF	0.45	THERMOPLASTIC SOLID TRAF STRIPE, 5 IN, YELLOW	2596.50
653-1704	315	LF	3.45	THERMOPLASTIC SOLID TRAF STRIPE, 24 IN, WHITE	1086.75
653-1804	2250	LF	1.69	THERMOPLASTIC SOLID TRAF STRIPE, 8 IN, WHITE	3802.50
653-3501	6495	GLF	0.33	THERMOPLASTIC SKIP TRAF STRIPE, 5 IN, WHITE	2143.35
653-6004	810	SY	2.72	THERMOPLASTIC TRAF STRIPING, WHITE	2203.20
653-6006	190	SY	2.64	THERMOPLASTIC TRAF STRIPING, YELLOW	501.60
654-1001	10	EA	3.07	RAISED PVMT MARKERS TP 1	30.70
654-1003	780	EA	3.23	RAISED PVMT MARKERS TP 3	2519.40
655-7000	5	EA	575.00	PAVEMENT ARROW, PREFORMED PLASTIC WITH RAISED REFLECTORS	2875.00
657-1104	1375	LF	4.57	PREFORMED PLASTIC SOLID PVMT MKG, 10 IN. WHITE, TP TB	6283.75
657-2085	3	LM	19995.00	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-WHITE), TP PB	59985.00
657-3085	5765	GLF	4.17	PREFORMED PLASTIC SKIP PVMT MKG, 8 IN, CONTRAST (BLACK-WHITE), TP PB	24040.05
657-5003	6	EA	491.56	PREFORMED PLASTIC PAVEMENT MARKING, WORD TP 1, TP PB	2949.36
				PREFORMED PLASTIC PVMT MKG, WORDS	

657-5017	30	EA	535.86	AND/OR SYM, ARROW TP 2, WHITE, TP PB	16075.80
657-6085	4000	LF	5.17	PREFORMED PLASTIC SOLID PVMT MKG, 8 IN, CONTRAST (BLACK-YELLOW), TP PB	20680.00
				Section Sub Total:	**$231,954.24**

Section Signal

Item Number	Quantity	Units	Unit Price	Item Description	Cost
615-1200	425	LF	11.40	DIRECTIONAL BORE -	4845.00
639-4004	8	EA	5829.96	STRAIN POLE, TP IV	46639.68
647-1000	1	LS	83882.00	TRAFFIC SIGNAL INSTALLATION NO - 1	83882.00
647-1000	1	LS	82147.00	TRAFFIC SIGNAL INSTALLATION NO - 2	82147.00
647-2160	5	EA	1455.52	PULL BOX, PB-6	7277.60
682-6233	350	LF	2.96	CONDUIT, NONMETL, TP 3, 2 IN	1036.00
935-1113	1285	LF	1.79	OUTSIDE PLANT FIBER OPTIC CABLE, LOOSE TUBE, SINGLE MODE, 24 FIBER	2300.15
935-3101	2	EA	549.66	FIBER OPTIC CLOSURE, UNDERGROUND, 6 FIBER	1099.32
935-4010	8	EA	53.15	FIBER OPTIC SPLICE, FUSION	425.20
935-5050	2	EA	51.93	FIBER OPTIC PATCH CORD, SM	103.86
935-8000	1	LS	2481.93	TESTING	2481.93
938-1100	2	EA	5875.76	INTERSECTION VIDEO DETECTION SYSTEM ASSEMBLY, TYPE A	11751.52
938-1200	1	EA	472.41	PROGRAMMING MONITOR, TYPE A	472.41
938-8000	1	LS	2005.89	TESTING	2005.89
938-8500	1	LS	2623.09	TRAINING	2623.09
				Section Sub Total:	**$249,090.65**

Total Estimated Cost: $10,762,783.51

Preliminary Right of Way Cost Estimate

Phil Copeland
Right of Way Administrator
By: Jerry Milligan

Date: July 31, 2008
Project: CSSTP-0006-00(04)Cherokee
Existing/Required R/W: Varies/Varies
Project Termini : I-575 @ Sixes Road Intersection
Project Description: I-575 @ Sixes Road Intersection Improvement Project

P.I. Number: 0006041
No. Parcels: 6

Land: Small Tract Comm R/W: 41,599.6 sf @ $ 15.50/sf	$ 644,794		
Large Traact Comm R/W: 36,808.2sf. @ $ 4.50/sf	165,637	$	810,431
Improvements : service station, misc. site improvements			1,010,000
Relocation: Commercial (1) Residential (0)			25,000
Damage : Proximity Consequential Cost to Cure (1)			20,000
Net Cost		$	1,865,431

Net Cost		$	1,865 ,431
Scheduling Contingency	55 %		1,025,987
Adm/Court Cost	60 %		1,734,851
		$	4,626,269

Total Cost $4,626,300

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

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: CSSTP-0006-00(041), Cherokee Co.
P.I. No. 0006041

OFFICE: Cartersville

FROM: Kerry D. Bonner, District Utilities Engineer

DATE: July 21, 2008

TO: Brent A. Story, P.E., State Road and Airport Engineer
ATTN: Tim Matthews, P.E., Design Group Manager

SUBJECT: REVISED PRELIMINARY UTILITY COST ESTIMATE

We are furnishing you with a Preliminary Utility Cost estimate for each utility with facilities potentially located within the project limits.

FACILITY OWNER	NON-REIMBURSABLE	REIMBURSABLE	LOCAL GOVT. COST
Cherokee County Water	$ 110,000.00		
Atlanta Gas Light	$ 231,000.00		
AT&T – Georgia (BellSouth)	$ 3,000.00		
Georgia Power Company		$231,000.00	
Totals	$ 344,000.00	$231,000.00	

Total Preliminary Utility Cost Estimate: $575,000.00

If you have any questions, please contact Jennifer Deems at 770-387-3616.

KDB/jd

C: Jeff Baker, P. E., State Utilities Engineer;
Jamie Simpson, Financial Management
Mike Thomason, Area Engineer
File/Estimating Book

Date 5/6/2009

P.I. Number 6041 County Cherokee

Project Number PESTP-0006-00(041)

Special Provision, Section 109-Measurement and Payment

FUEL PRICE ADJUSTMENT (*ENGLISH 125% MAX*)

ENTER FPL DIESEL	2.137
ENTER FPM DIESEL	4.808

ENTER FPL UNLEADED	1.903
ENTER FPM UNLEADED	4.28175

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)**	35562.000	0.29	10312.98	0.24	8534.88	
Hot Mix Asphalt paid as specified by the ton under Sections 400 **(TON)**	792.000	2.90	2296.80	0.71	562.32	
Hot Mix Asphalt paid as specified by the ton under Sections 402 **(TON)**	30364.000	2.90	88055.60	0.71	21556.44	
PCC Pavement paid as specified by the square yard under Section 430 **(SY)**		0.25		0.20		

BRIDGE ITEMS	Quantity	Unit Price	QF/1000	Diesel Factor	Gallons Diesel	Unleaded Factor	Gallons Unleaded	REMARKS
Bridge Excavation (CY) Section 211				8.00		1.50		
Class __Concrete (CY) Section 500				8.00		1.50		
Class __Concrete (CY) Section 500				8.00		1.50		
Class __Concrete (CY) Section 500				8.00		1.50		
Superstru Con Class__(CY) Section 500				8.00		1.50		
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				8.00		1.50		
Stru Steel Plan Quantity (LB) Section 501				8.00		1.50		
PSC Beams_____ (LF) Section 507				8.00		1.50		
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				8.00		1.50		
Stru Reinf Plan Quantity(LB) Section 511				8.00		1.50		
Bar Reinf Steel (LB) Section 511				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		
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 OF DIESEL=	100665.38	SUM OF UNLEADED=	30655.64

DIESEL PRICE ADJUSTMENT($)	$247,390.20
UNLEADED PRICE ADJUSTMENT($)	$67,088.34

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: 341 ENTER APM: 767.25

125.00%	INCREASE ADJUSTMENT

L.I.N.	TYPE	TACK (GALLONS)	TACK (TONS)	REMARKS
413-1000	PG 58-22	19618	84.2613	

TMT = 84.2613

PRICE ADJUSTMENT($)	$34,479.71

400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX

ENTER APL: 341 ENTER APM: 767.25

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
402-3130	12.5 mm SP	5077	5.00	253.85	
402-3190	19 mm SP	6769	5.00	338.45	
402-3121	25 mm SP	18480	5.00	924.00	
402-1812	12.5 mm SP	38	5.00	1.90	
400-3624	12.5 mm PEM	792	5.00	39.60	
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			5.00		
			TMT =	1557.80	

PRICE ADJUSTMENT($)	$637,451.76

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 341 ENTER APM 767.25

125.00%	INCREASE ADJUSTMENT

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($)	

ADJUSTMENT SUMMARY

FUEL PRICE ADJUSTMENT (*ENGLISH 125% MAX*)

DIESEL PRICE ADJUSTMENT($)	$247,390.20
UNLEADED PRICE ADJUSTMENT($)	$67,088.34
ASPHALT CEMENT PRICE ADJUSTMENT (BITUMINOUS TACK COAT 125% MAX)	$34,479.71
400 / 402 ASPHALT CEMENT PRICE ADJUSTMENT 125% MAX	$637,451.76
ASPHALT CEMENT PRICE ADJUSTMENT FOR BITUMINOUS TACK COAT(Surface Treatment 125% MAX)	

REMARKS:	

TOTAL ADJUSTMENTS	$986,410.01

DWM 10/08

PROJ. NO.	STPN0-0007-03(033)
P.I. NO.	422710
DATE	11/14/2008

11/13/2008

FUEL ADJUSTMENTS - BRIDGE

FPA = ([((FPM-FPL)/FPL)-.10]x(QxF/1000))FPL

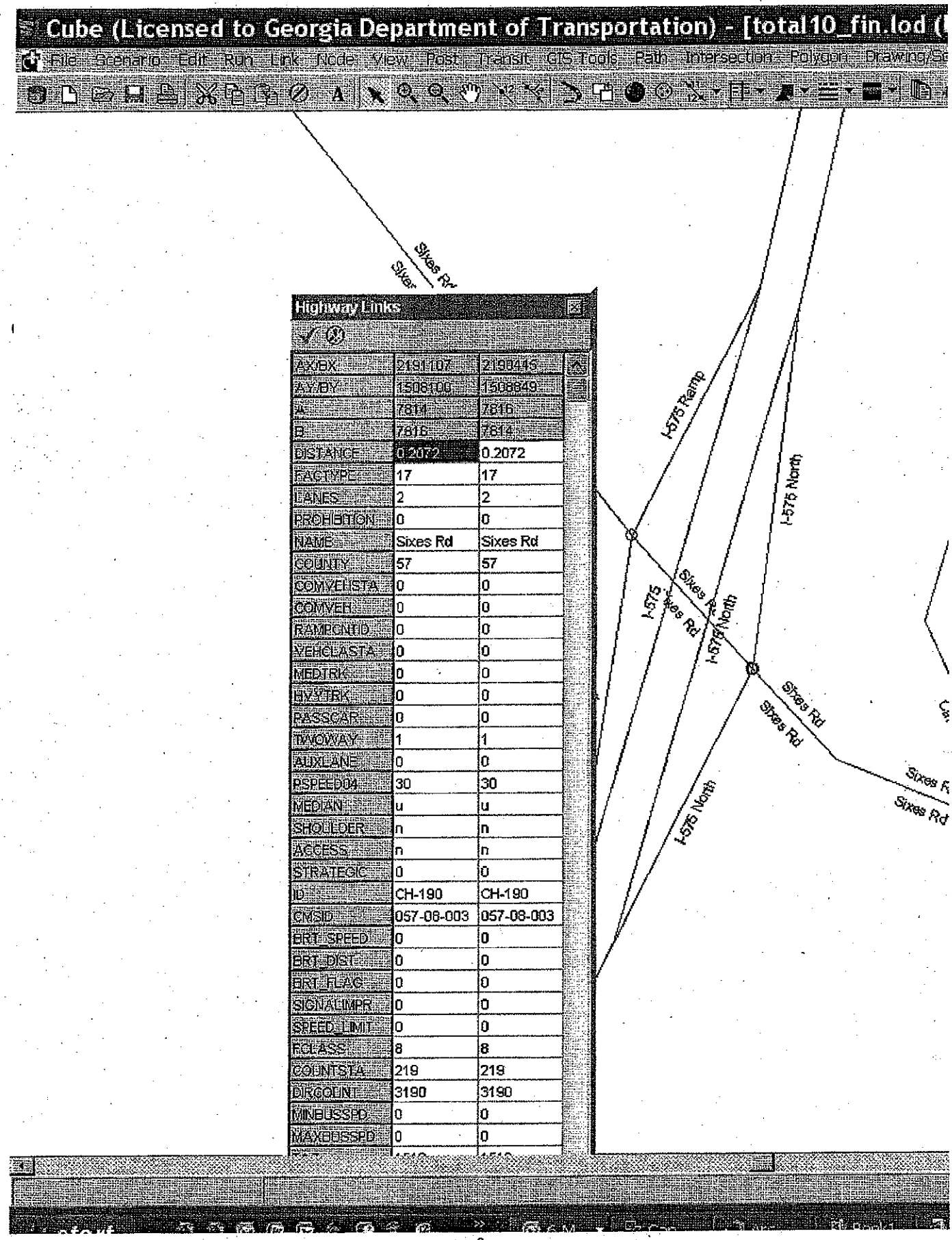
			REGULAR UNLEADED	DIESEL	TOTALS
Fuel Price Adjustment (FPA)			$ 7,085.28	$ 55,700.14	$ 62,785.42
Monthly Fuel Price for month work was accomplished (FPM)		125%	$ 4.718	$ 6.955	
Monthly Fuel Price for month when project was let (FPL)			$ 2.097	$ 3.091	
Quantity Placed (Q)	Cost	###########			
Fuel Usage Factor (F)			1.5	8	

Section		Cost
211	Bridge Excavation	
500	Superstr Conc Cl AA	
500	Class A Concrete	
500	Class AA Concrete	
500	Concrete Handrail	
500	Concrete Barrier	
501	Structural Steel	
507	Prestressed Conc Beams	
511	Super Reinforcement	
511	Bar Reinf Steel	
520	Piling	
520	Piling	
524	Drilled Caisson	
547	Pile Encasement	
547	Pile Encasement	
		$ -

Use when bridge items haven't been established. Assumes 80% of the estimated bridge cost will qualify for fuel adjustments.

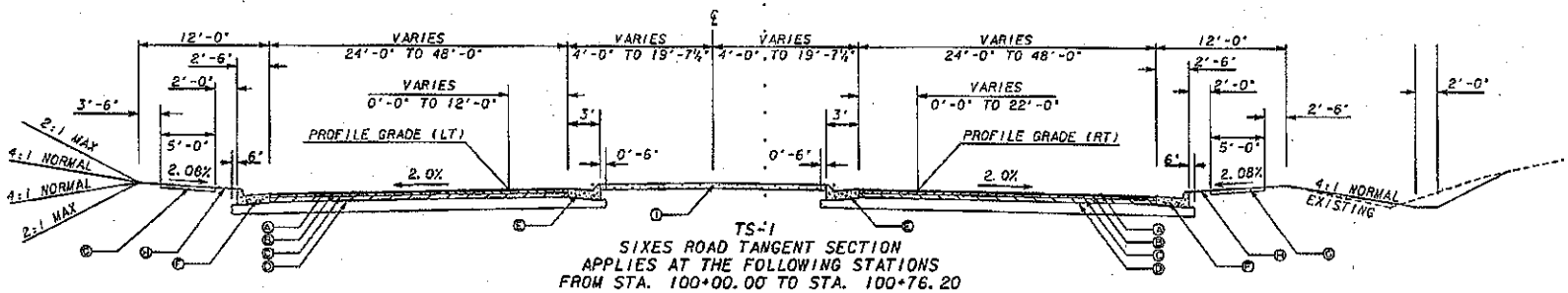
EST. BRIDGE COST	% COST w/ADJ.	COST
$ 2,448,383.50	80%	$ 1,958,706.80

TOTAL BRIDGE FUEL ADJUSTMENTS $ 62,785.42



AXBX	2191107	2190415
AYBY	1508100	1508649
A	7814	7816
B	7815	7814
DISTANCE	0.2072	0.2072
FACTYPE	17	17
LANES	2	2
PROHIBITION	0	0
NAME	Sixes Rd	Sixes Rd
COUNTY	57	57
COMVEHSTA	0	0
COMVEH	0	0
RAMPCNTID	0	0
VEHCLASTA	0	0
MEDTRK	0	0
HVYTRK	0	0
PASSCAR	0	0
TWOWAY	1	1
AUXLANE	0	0
PSPEED04	30	30
MEDIAN	u	u
SHOULDER	n	n
ACCESS	n	n
STRATEGIC	0	0
ID	CH-190	CH-190
CMSID	057-08-003	057-08-003
BRT_SPEED	0	0
BRT_DIST	0	0
BRT_FLAG	0	0
SIGNALIMPR	0	0
SPEED_LIMIT	0	0
FCLASS	8	8
COUNTSTA	219	219
DIRCOUNT	3190	3190
MINBUSSPD	0	0
MAXBUSSPD	0	0

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSSTP-0006-00(041)		



TS-1
SIXES ROAD TANGENT SECTION
APPLIES AT THE FOLLOWING STATIONS
FROM STA. 100+00.00 TO STA. 100+76.20
FROM STA. 123+84.83 TO STA. 124+30.00

(A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM, 165 LBS/SY
(B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM, 220 LBS/SY
(C) RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM, 440 LBS/SY
(D) GRADED AGGR BASE, CRS, 12 INCH, INCL MATL
(E) CURB AND GUTTER, 8" x 30", TYPE 1
(F) CURB AND GUTTER, 8" x 30", TYPE 2
(G) CONCRETE SIDEWALK, 4 IN THICK
(H) BERMUDA SOD BETWEEN BACK OF CURB AND FRONT OF SIDEWALK
(I) 8" STAMPED CONCRETE, TILE RED COLOR AND COBBLESTONE PATTERN

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	——	0-10'
2:1	ALL	OVER 10'

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

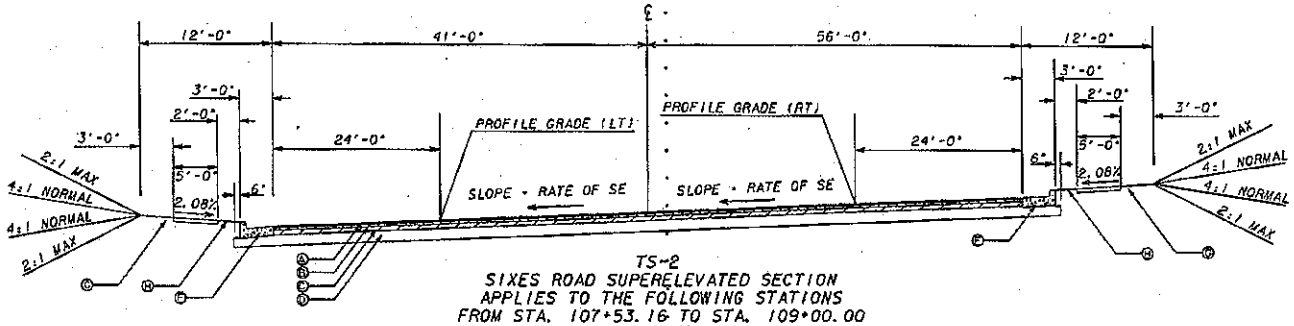
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD DESIGN
TYPICAL SECTIONS

DRAWING NO. 5-01

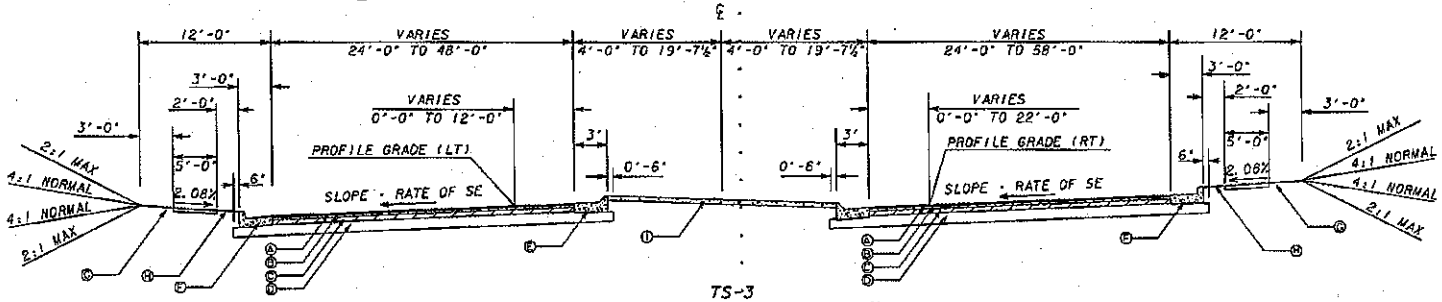
M:\0006041\DGN\006041TY01.dgn 5/6/2009 1:12:40 PM

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSSTP-0005-001(041)		



TS-2
SIXES ROAD SUPERELEVATED SECTION
APPLIES TO THE FOLLOWING STATIONS
FROM STA. 107+53.16 TO STA. 109+00.00
FROM STA. 115+40.00 TO STA. 117+09.00

- (A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM, 165 LBS/SY
- (B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM, 220 LBS/SY
- (C) RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM, 440 LBS/SY
- (D) GRADED AGGR BASE, CRS, 12 INCH, INCL MATL
- (E) CURB AND GUTTER, 8" x 30", TYPE 7
- (F) CURB AND GUTTER, 8" x 30", TYPE 2
- (G) CONCRETE SIDEWALK, 4 IN THICK
- (H) BERMUDA SOD BETWEEN BACK OF CURB AND FRONT OF SIDEWALK
- (I) 8" STAMPED CONCRETE, TILE RED COLOR AND COBBLESTONE PATTERN



TS-3
SIXES ROAD SUPERELEVATED SECTION
APPLIES TO THE FOLLOWING STATIONS
FROM STA. 100+76.20 TO STA. 107+53.16
FROM STA. 117+09.00 TO STA. 123+84.83
FROM STA. 124+30.00 TO STA. 126+58.93

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	——	0-10'
2:1	ALL	OVER 10'

GEORGIA
DEPARTMENT OF TRANSPORTATION

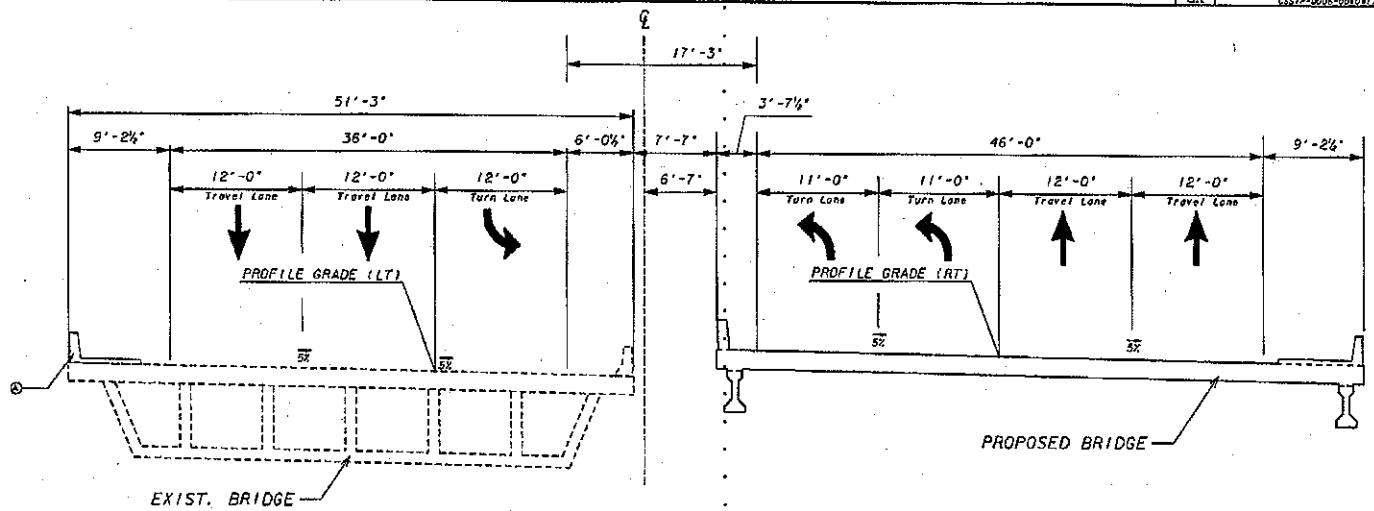
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
TYPICAL SECTIONS

DRAWING NO. 5-02

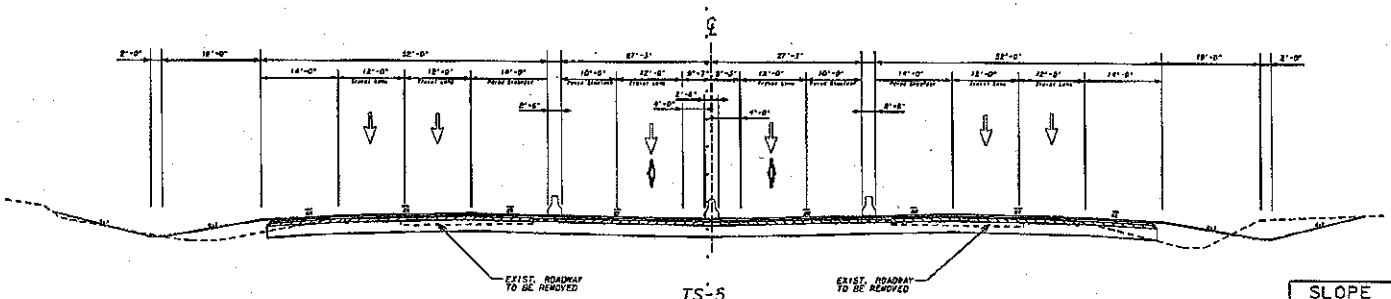
M:\0006041\DGN\006041TY01.dgn 5/6/2009 1:12:51 PM

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSSTP-0006-00(041)		



TS-4
BRIDGE SECTION
APPLIES FROM STA. 110+89.64 TO STA. 114+22.31

Ⓐ CONCRETE SIDEWALK, 4 IN THICK WITH CONCRETE PARAPET



TS-5
I-575 (FUTURE SECTION)
APPLIES FROM STA. 700+00.00 TO STA. 760+00.00

SLOPE	CONTROLS	
SLOPE	CUT	FILL
4:1	——	0-10'
2:1	ALL	OVER 10'

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

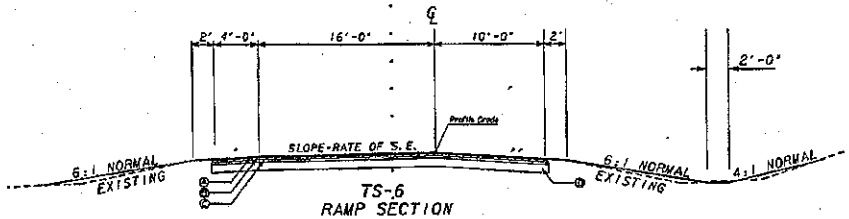
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
TYPICAL SECTIONS

DRAWING NO. 5-03

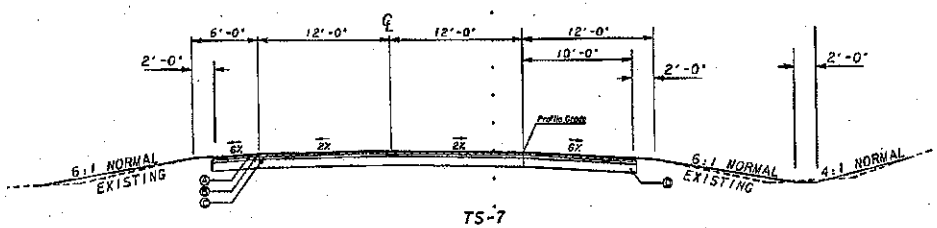
M:\0006041\DGN\006041TY01.dgn 5/6/2009 1:13:07 PM

DATE###	TIME###	###FP#	###CONTABLE##	###DGN##	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
###USER##					GA	CSSTP-0006-00(041)		



TS-6
RAMP SECTION
APPLIES TO THE FOLLOWING STATIONS
RAMP A - FROM STA. 200+00.00 TO STA. 211+81.85
RAMP B - FROM STA. 340+86.27 TO STA. 341+86.27

(A) RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM, 165 LBS/SY
(B) RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM, 220 LBS/SY
(C) RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM, 440 LBS/SY
(D) GRADED AGGR BASE, CRS, 12 INCH, INCL MATL
(E) CURB AND GUTTER, 8" x 30", TYPE 7
(F) CURB AND GUTTER, 8" x 30", TYPE 2
(G) CONCRETE SIDEWALK, 4 IN THICK
(H) BERMUDA SOD BETWEEN BACK OF CURB AND FRONT OF SIDEWALK
(I) 8" STAMPED CONCRETE, TILE RED COLOR AND COBBLESTONE PATTERN



TS-7
TWO-LANE RAMP SECTION
APPLIES TO THE FOLLOWING STATIONS
RAMP B FROM STA. 341+86.27 TO STA. 350+00.00
RAMP C FROM STA. 400+00.00 TO STA. 441+06.84
RAMP D FROM STA. 510+96.78 TO STA. 550+00.00

* SHOULDER TO SLOPE AT NORMAL RATE, HOWEVER, THE ALGEBRAIC DIFFERENCE IN PAVING SLOPE AND SHOULDER SLOPE SHALL NOT EXCEED 8%. MINIMUM SHOULDER SLOPE TO BE 2%.

** SHOULDER TO SLOPE AT NORMAL RATE OR SUPERELEVATION RATE, WHICHEVER IS GREATER.

SLOPE CONTROLS		
SLOPE	CUT	FILL
4:1	——	0-10'
2:1	ALL	OVER 10'

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE:
TYPICAL SECTIONS

DRAWING NO. 5-04

M:\0006041\DGN\006041TY01.dgn 5/6/2009 1:13:19 PM