

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 0007153 **OFFICE** Design Policy & Support
CSBRG-0007-00(153)
Baker County
GDOT District 4 - Tifton **DATE** December 18, 2014
SR 200 @ Ichawaynochaway Creek
Bridge Replacement

FROM *Kim Phillips*
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
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Charles "Chuck" Hasty, State Materials Engineer
Mike Bolden, State Utilities Engineer
Richard Cobb, Statewide Location Bureau Chief
Andy Casey, State Roadway Design Engineer
Attn: Sandy Griffin, District Design Engineer
Joe Sheffield, District Engineer
Brent Thomas, District Preconstruction Engineer
Tim Warren, District Utilities Engineer
Sonja Thompson, Project Manager
BOARD MEMBER - 2nd Congressional District

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

Project Type: Bridge Replacement P.I. Number: 0007153
 GDOT District: 4 County: Baker
 Federal Route Number: N/A State Route Number: SR 200
 Project Number: CSBRG-007-00(153)

The original Approved Concept provided an On-Site detour to maintain traffic on during construction of the proposed bridge replacement. Due to constructability issues of the proposed detour elevation and to avoid additional costs and impacts of redesign and relocation of the On-Site detour we are proposing an Off-Site detour to maintain traffic on during construction.

Submitted for approval:

<u><i>Ralph D. Giff</i></u>	<u>10/14/14</u>
GDOT Concept/Design Phase Office Head & Office	Date
<u><i>Albert Shelby</i></u> <i>BNA</i>	<u>10/22/14</u>
State Program Delivery Engineer	Date
<u><i>Suzie Thompson</i></u>	<u>10/15/14</u>
GDOT Project Manager	Date

** Recommendation on file*
Recommendation for approval:

<i>* Hiral Patel / KLP</i>	<u>11/16/14</u>
State Environmental Administrator	Date
<i>* Kathy Zahul / KLP</i>	<u>10/24/14</u>
State Traffic Engineer	Date
<i>* Beh Rabun / KLP</i>	<u>10/29/14</u>
State Bridge Engineer	Date

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

<u><i>Cynthia A. Vourpoe</i></u>	<u>10-27-14</u>
State Transportation Planning Administrator	Date

→ This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and or is included in the State Transportation Improvement Program (STIP).

PLANNING, APPROVED CONCEPT, AND BACKGROUND

Project Justification Statement:

This bridge (Structure ID 007-0006-0; SR 200 over Ichawaynochaway Creek) was built in 1956. The bridge consists of six spans of steel beams on concrete caps with steel piles and concrete columns. This bridge was designed using a truck configuration that weighs less than the current state legal truck weights. This bridge is posted. The overall condition of this bridge would be classified as good to satisfactory; with the substructure members exhibiting some minor deterioration and cracking considered to be satisfactory. The deck has minor transverse cracking with some efflorescence and abrasion wearing. The superstructure has some minor problems. No rehabilitation work performed on the structure components would improve this bridge in so far as the posting of the structure is concerned. Due to the structural integrity based on the design and that the bridge is currently posted replacement of this bridge is recommended.

Existing conditions: The existing approaches consist of one 11' travel lane in each direction, 6' shoulders with 1' paved and open ditches. The existing bridge structure is a 380' x 30' with one 11' travel lane in each direction and 2' shoulders. The existing R/W varies from 50' to 100'.

Description of the approved concept: This project is the replacement of the existing bridge on SR 200 @ Ichawaynochaway Creek. The current Bridge Sufficiency Rating is 55.63 and will be replaced with a wider bridge that meets current GDOT Guidelines. The proposed approaches will consist of two-11 ft. travel lanes, 6 ft shoulders with 2 ft. paved and open ditches. Traffic will be maintained with an On-site Detour. This project is located in the 7th Land District, Land Lot 119 and GMD 1680. The proposed project will be approximately 0.32 miles in length.

Federal Oversight: PoDI Exempt State Funded Other

Projected Traffic as shown in the approved Concept Report: ADT or AADT
Open Year (2018): 575 Design Year (2038): 725

Updated Traffic: ADT or AADT
Open Year (20XX): N/A Design Year (20YY): N/A

Functional Classification (Mainline): Rural Major Collector

VE Study anticipated: No Yes Completed – Date:

PROPOSED REVISIONS

Approved Features:	Proposed Features:
<p>The approved concept proposed an on-site detour on the north side of the existing alignment. The proposed detour bridge needed to be lowered approximately 10'-15' than originally proposed due to constructability issues. Lowering the detour bridge will cause the fill limits of the mainline to cover the travel lanes of the proposed detour so the detour will also have to be shifted approximately 60' north of its original location. Shifting the on-site detour 60' to the north will lengthen the project by 200'-300' at both ends. This will also require the temporary easement to be in close proximity to an abandoned gravesite on the northwest quadrant of the bridge and cause additional impacts to the environmentally sensitive areas.</p>	<p>The project detour is being revised from an On-Site detour to an Off-Site Detour. Changing to an Off-Site detour will reduce the required R/W from 0.688 acres to 0.152 acres and eliminate the need for 1.289 acres of temporary easement for construction of detour. The project will decrease in length from 0.246 miles to 0.227 miles. The proposed detour route will be 33.31 miles in length along on-system roadways. Through traffic will only be traveling an additional 10.21 miles due to the detour. There are off-system roads in the area of the detour that the locals can travel to reduce travel time.</p>
<p>Reason(s) for change: The office of Bridge Design requested that the onsite detour bridge be lowered approximately 10-15 ft. due to constructability issues which will cause the fill from the mainline to encroach onto the travel lanes of the detour. Due to this, the proposed onsite detour also would have to be shifted further north of the mainline by approximately 60 ft. Shifting the detour an additional 60 ft. to the north would cause additional impacts to the environmental sensitive area and possibly impact an abandoned grave site on the northwest quadrant of the project. The project would also have to be lengthened to accommodate the new onsite detour location. To avoid any possible additional impacts we determined to revise the project to have an Off-site detour.</p>	

Design Variances and/or Exceptions needed: None

ENVIRONMENTAL AND PERMITS

Potential environmental impacts of proposed revision: The proposed revision would reduce environmental impacts to the existing stream by reducing the stream crossings from two to one. The proposed revision would also reduce impacts to the Joseph W. Jones Ecological Research Center at Ichauway by reducing the amount of right-of-way or easement required from the property. The proposed revision would not affect the environmental/project schedule.

Have proposed revisions been reviewed by environmental staff? No Yes

Environmental responsibilities (Studies/Documents/Permits): No additional work is anticipated.

Air Quality:

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

Environmental Comments and Information:

NEPA: The NEPA document is still pending so there would be no effect.

Ecology: The removal of the temporary bridge for the on-site detour will reduce the overall impacts to the stream and protected species. The stream is critical habitat for federally protected mussels so Section 7 consultation is required and is underway. The revision would reduce impacts, but wouldn't eliminate them. No additional surveys would be required.

Archeology: There would be no effects to archaeological resources by the revision; no additional surveys would be required.

History: The revision would reduce property impacts to the Joseph W. Jones Ecological Research Center at Ichauway (historic resource). No additional surveys would be required.

Air Quality: There would be no effects to air quality.

Noise Effects: The revision would not result in changes to the noise assessment.

Public Involvement: A Public Detour Open House was held August 7, 2014 to account for the revision.

PROJECT COST AND ADDITIONAL INFORMATION

Item	Estimated Cost	Date of Estimate	Funded By
Base Construction Cost:	\$2,271,809.41	9/19/2014	
Engineering and Inspection:	\$113,590.47	9/19/2014	
Contingencies:	\$227,180.94	9/19/2014	
Liquid AC Adjustment:	\$17,380.80	9/19/2014	
<u>Total Construction Cost:</u>	<u>\$2,629,961.62</u>		GDOT
Right-of-Way:	\$113,000.00	9/30/2014	GDOT
Utilities (reimbursable costs):	\$0.00	10/7/2014	N/A
Environmental Mitigation:	\$0.00	10/3/2014	N/A
TOTAL PROJECT COST:	\$2,742,961.62		

Recommendation: We recommend that the revision from an On-Site detour to an Off-Site detour be implemented.

Comments: GDOT Office of Roadway Design policy directs that Highway Safety Manual (HSM) analysis is not accomplished for bridge replacement projects with 0.5-mile or less of roadway construction on each bridge approach. This project has less than 0.12-mile of roadway construction proposed on each approach thus a HSM analysis is not included.

Attachments:

1. Sketch map
2. Cost Estimate(s)
3. Plan/Profile Sheet
4. Typical Sections
5. Detour Map
6. Detour Meeting Correspondences

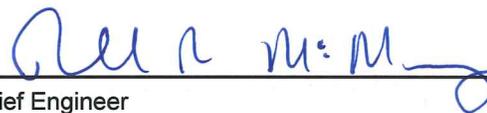
APPROVALS

Concur:



Director of Engineering

Approve:

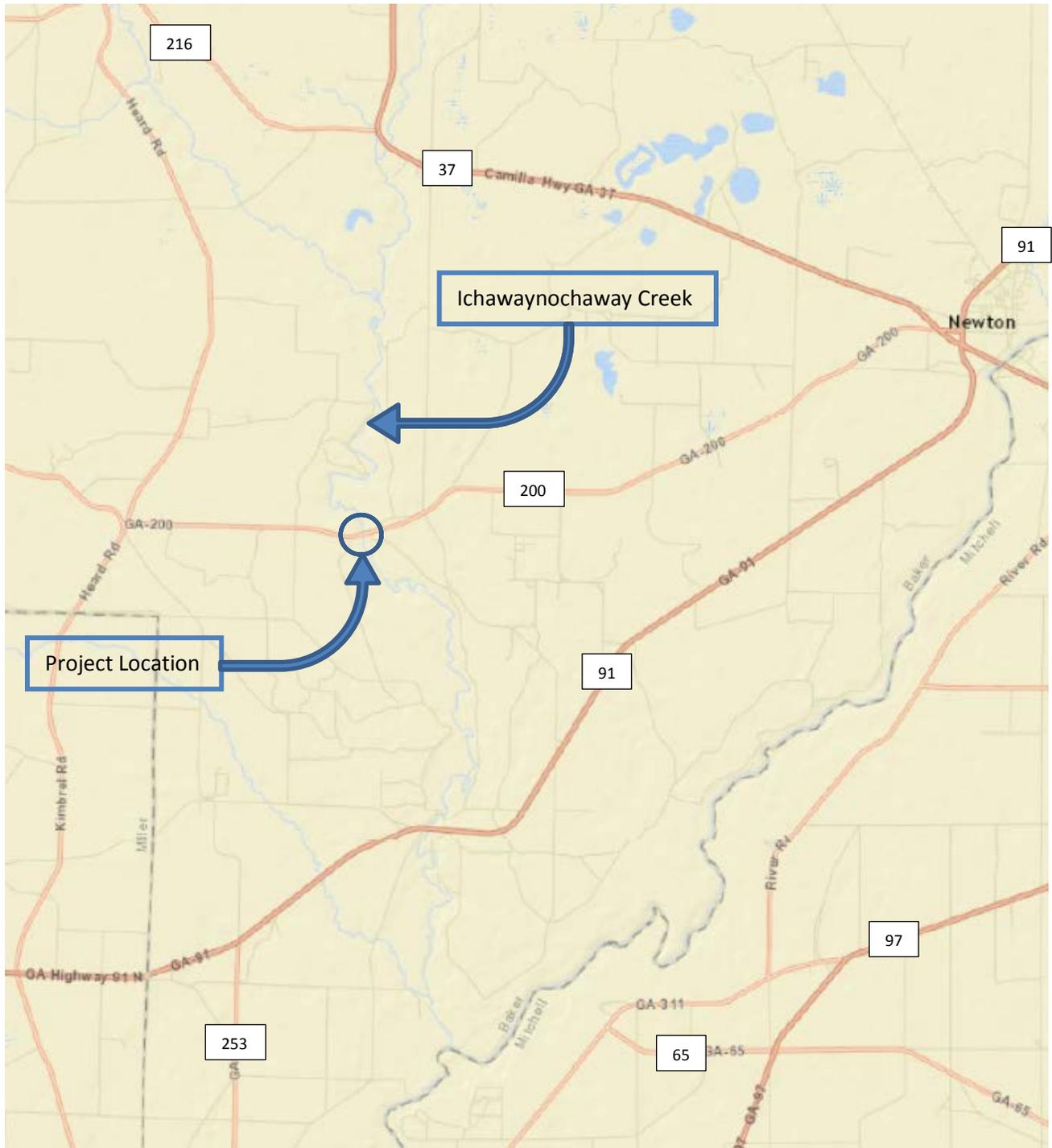


Chief Engineer

12/17/14

Date

PROJECT LOCATION MAP



PROJECT LOCATION

Bridge Replacement on S.R. 200 @ Ichawaynochaway Creek

Structure ID: 007-0006-0

DETAILED COST ESTIMATE



Job: 0007153-BAKER

JOB NUMBER 0007153-BAKER

FED/STATE PROJECT NUMBER 0007153

SPEC YEAR: 01

DESCRIPTION: SR 200 @ ICHAWAYNOCHAWAY CREEK

ITEMS FOR JOB 0007153-BAKER

0010 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$64,000.00000	TRAFFIC CONTROL - CSBRG-0007-00(153)	\$64,000.00
0009	153-1300	1.000	EA	\$85,000.00000	FIELD ENGINEERS OFFICE TP 3	\$85,000.00
0010	210-0100	1.000	LS	\$115,000.00000	GRADING COMPLETE - CSBRG-0007-00(153)	\$115,000.00
0015	310-5080	2464.000	SY	\$14.96830	GR AGGR BS CRS 8IN INCL MATL	\$36,881.89
0020	402-3100	172.000	TN	\$92.13878	REC AC 9.5 MM SP,TPI,GP1ORBL1,INCL BM&HL	\$15,847.87
0025	402-3121	441.000	TN	\$77.36812	RECYL AC 25MM SP,GP1/2,BM&HL	\$34,119.34
0030	402-3190	303.000	TN	\$85.99189	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$26,055.54
0035	413-1000	250.000	GL	\$4.27386	BITUM TACK COAT	\$1,068.47
0040	433-1000	244.000	SY	\$161.82004	REINF CONC APPROACH SLAB	\$39,484.09
0045	441-0301	4.000	EA	\$1,852.77778	CONC SPILLWAY, TP 1	\$7,411.11
0050	500-3101	1.000	CY	\$528.75824	CLASS A CONCRETE	\$528.76
0055	550-2240	40.000	LF	\$32.84390	SIDE DR PIPE 24",H 1-10	\$1,313.76
0060	550-3624	2.000	EA	\$829.04879	SAFETY END SECTION 24",SD,6:1	\$1,658.10
0065	576-1015	250.000	LF	\$24.06335	SLOPE DRAIN PIPE, 15 IN	\$6,015.84
0070	634-1200	12.000	EA	\$111.63195	RIGHT OF WAY MARKERS	\$1,339.58
0075	641-1100	84.000	LF	\$66.00000	GUARDRAIL, TP T	\$5,544.00
0080	641-1200	350.000	LF	\$20.12000	GUARDRAIL, TP W	\$7,042.00
0085	641-5001	2.000	EA	\$800.00000	GUARDRAIL ANCHORAGE, TP 1	\$1,600.00
0090	641-5012	3.000	EA	\$2,300.00000	GUARDRAIL ANCHORAGE, TP 12	\$6,900.00
SUBTOTAL FOR ROADWAY:						\$456,810.35

0020 - TEMPORARY EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0095	163-0232	4.000	AC	\$600.00000	TEMPORARY GRASSING	\$2,400.00
0100	163-0240	64.000	TN	\$250.00000	MULCH	\$16,000.00
0105	163-0300	2.000	EA	\$1,200.00000	CONSTRUCTION EXIT	\$2,400.00
0110	163-0520	400.000	LF	\$15.00000	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$6,000.00
0115	163-0529	400.000	LF	\$4.10000	CNST/REM TEMP SED BAR OR BLD STRW CK DM	\$1,640.00
0120	163-0541	10.000	EA	\$530.00000	CONSTR & REM ROCK FILTER DAMS	\$5,300.00
0125	163-0550	4.000	EA	\$200.00000	CONS & REM INLET SEDIMENT TRAP	\$800.00
0130	165-0030	1500.000	LF	\$1.00000	MAINT OF TEMP SILT FENCE, TP C	\$1,500.00
0135	165-0071	200.000	LF	\$1.00000	MAINT OF SEDIMENT BARRIER - BALED STRAW	\$200.00
0140	165-0101	2.000	EA	\$610.00000	MAINT OF CONST EXIT	\$1,220.00
0145	165-0105	4.000	EA	\$110.00000	MAINT OF INLET SEDIMENT TRAP	\$440.00
0150	165-0110	10.000	EA	\$110.00000	MAINT OF ROCK FILTER DAM	\$1,100.00
0155	167-1000	6.000	EA	\$500.00000	WATER QUALITY MONITORING AND SAMPLING	\$3,000.00
0160	167-1500	12.000	MO	\$500.00000	WATER QUALITY INSPECTIONS	\$6,000.00
0165	171-0030	3000.000	LF	\$3.00000	TEMPORARY SILT FENCE, TYPE C	\$9,000.00
0170	643-8200	1500.000	LF	\$2.24000	BARRIER FENCE (ORANGE), 4 FT	\$3,360.00
SUBTOTAL FOR TEMPORARY EROSION CONTROL:						\$60,360.00

DETAILED COST ESTIMATE



Job: 0007153-BAKER

0030 - PERMANENT EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0175	700-6910	4.000	AC	\$959.40914	PERMANENT GRASSING	\$3,837.64
0180	700-7000	8.000	TN	\$97.00809	AGRICULTURAL LIME	\$776.06
0185	700-8000	4.000	TN	\$494.28805	FERTILIZER MIXED GRADE	\$1,977.15
0190	700-8100	200.000	LB	\$2.84314	FERTILIZER NITROGEN CONTENT	\$568.63
SUBTOTAL FOR PERMANENT EROSION CONTROL:						\$7,159.48

0040 - SIGNING AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0195	636-1033	41.000	SF	\$19.83221	HWY SIGNS, TP1MAT,REFL SH TP 9	\$813.12
0200	636-2070	70.000	LF	\$7.67955	GALV STEEL POSTS, TP 7	\$537.57
0205	636-5020	12.000	EA	\$42.18519	DELINEATOR, TP 2	\$506.22
0210	652-5451	1488.000	LF	\$0.20280	SOLID TRAF STRIPE, 5 IN, WHITE	\$301.77
0215	652-5452	1488.000	LF	\$0.19587	SOLID TRAF STRIPE, 5 IN, YELLO	\$291.45
0220	654-1001	20.000	EA	\$5.20344	RAISED PVMT MARKERS TP 1	\$104.07
0225	657-1085	852.000	LF	\$6.45657	PRF PL SD PVT MKG,8",B/W,TP PB	\$5,501.00
0230	657-6085	852.000	LF	\$6.95441	PRF PL SD PVMT MKG,8",B/Y,TPPB	\$5,925.16
SUBTOTAL FOR SIGNING AND MARKING:						\$13,980.36

0050 - BRIDGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0235	540-1101	1.000	LS	\$228,000.00000	REM OF EX BR, STA NO - 225+50	\$228,000.00
0240	543-9000	1.000	LS	\$1,448,400.00000	CONSTR OF BRIDGE COMPLETE - CSBRG-0007-00(153)	\$1,448,400.00
0245	603-2024	1000.000	SY	\$52.82574	STN DUMPED RIP RAP, TP 1, 24"	\$52,825.74
0250	603-7000	1000.000	SY	\$4.27348	PLASTIC FILTER FABRIC	\$4,273.48
SUBTOTAL FOR BRIDGE:						\$1,733,499.22

TOTALS FOR JOB 0007153-BAKER

ITEMS COST:	\$2,271,809.41
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$2,271,809.41
CONTINGENCY PERCENT:	0.10
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$2,612,580.82

Department of Transportation State of Georgia

Interdepartmental Correspondence

FILE R/W Cost Estimate **OFFICE** Atlanta
DATE 09/30/2014
FROM Phil Copeland, Right of Way Administrator
LaShone Alexander, Right of Way Cost Estimator
TO Sonja Thomas, Project Manager
SUBJECT **Preliminary Right of Way Cost Estimate**
Project: CSBRG-0007-00(153) Baker County
P.I. No.: 0007153
Description: Bridge Replacement SR 200@ Ichawaynochavday Creek

As per your request, attached is a copy of the approved Preliminary Right of Way Cost Estimates on the above referenced projects.

If you have any questions, please contact LaShone Alexander at One Georgia Center 600 West Parkway Street, NW Atlanta, GA 30308, Right of Way Office at (478) 553-1569 or (478) 232-4045.

\
PC:LA
Attachments
c: File

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 9/30/2014 Project: CSBRG-0007-00(153)
 Revised: County: Baker County
 PI: 0007153

Description: Bridge Replacement SR 200 @ Ichawaynoochavday
 Project Termini: Bridge Replacement SR 200 @ Ichawaynoochavday

Existing ROW: Varies
 Required ROW: Varies
 Parcels: 1

Land and Improvements _____ \$55,155.00

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$25,000.00

Valuation Services _____ \$3,000.00

Legal Services _____ \$38,175.00

Relocation _____ \$2,000.00

Demolition _____ \$0.00

Administrative _____ \$14,500.00

TOTAL ESTIMATED COSTS _____ \$112,830.00

TOTAL ESTIMATED COSTS (ROUNDED) _____ \$113,000.00

Preparation Credits	Hours	Signature

Prepared By: Dathone Alexander CG#: 286999 09/30/2014 (DATE)

Approved By: Dathone Alexander CG#: 286999 09/30/2014 (DATE)

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE

Project No: **CSBRG-0007-00(153)**
 County **Baker**
 P.I. # **0007153**

OFFICE: **Tifton**
 DATE: **October 7, 2014**

Description: **SR 200 @ ICHAWAYNOCHAWAY CREEK**

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

TO Sonja Thompson , Project Manager

SUBJECT **UTILITY COST ESTIMATE- REVISED**

A review of utilities located on the above referenced project has been conducted based on the latest available plans.. Listed below is a breakdown of the anticipated reimbursable and non-reimbursable cost.

<u>Utility Owner</u>	<u>Reimbursable</u>	<u>Non-Reimbursable</u>	<u>Estimate Based on</u>
Bellsouth	\$0.00	\$10,000.00	Site Visit / Available Drawings
Total	\$ 0.00	\$10,000.00	

**** Indicates Potential Utility Aid Request from Local Gov't**

Estimate is based on the best available information at the current stage, unforeseen prior rights information may be provided by the Utility Company at a later date that could cause some non-reimbursable costs to shift to the reimbursable cost column.

If additional information is needed, please contact me Aneece Louaked, Utilities Engineer or Tim Warren, District Utilities Engineer at (229) 386-3288.

- c: Nick Fields, State Utilities Office
- Lee Upkins, State Utilities Office
- Jun Birnkammer, State Utilities Office
- Brent Thomas, District Preconstruction Engineer

PROJ. NO. CSBRG-0007-00(153)
P.I. NO. 0007153
DATE 9/19/2014

CALL NO. 9/29/2009

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Sep-14	\$ 3.335
DIESEL		\$ 3.765
LIQUID AC		\$ 618.00

Link to Fuel and AC Index:

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)					16982.64	\$	16,982.64
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	988.80			
Monthly Asphalt Cement Price month project let (APL)			\$	618.00			
Total Monthly Tonnage of asphalt cement (TMT)					45.8		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	172	5.0%	8.6
25 mm SP	441	5.0%	22.05
19 mm SP	303	5.0%	15.15
	916		45.8

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$	398.16	\$	398.16
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	988.80			
Monthly Asphalt Cement Price month project let (APL)			\$	618.00			
Total Monthly Tonnage of asphalt cement (TMT)					1.07377523		

Bitum Tack

Gals	gals/ton	tons
250	232.8234	1.07377523

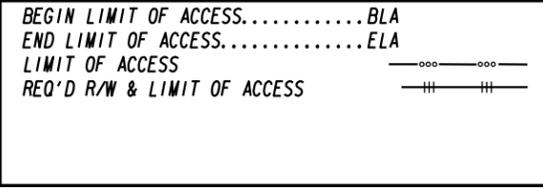
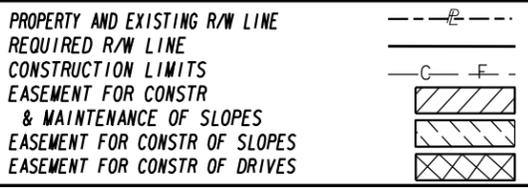
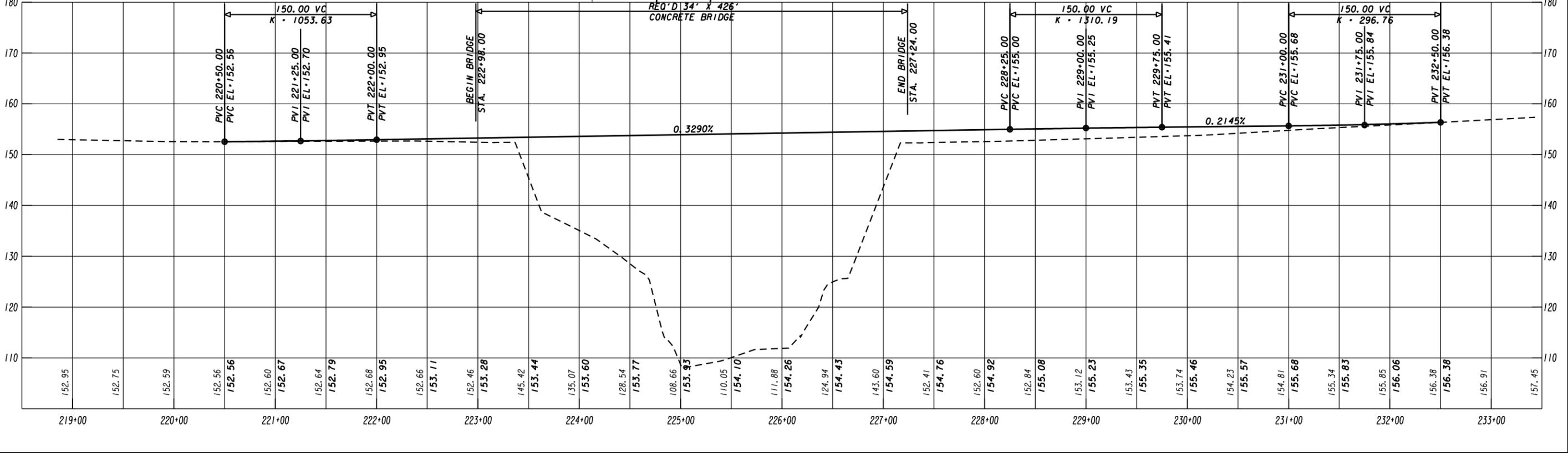
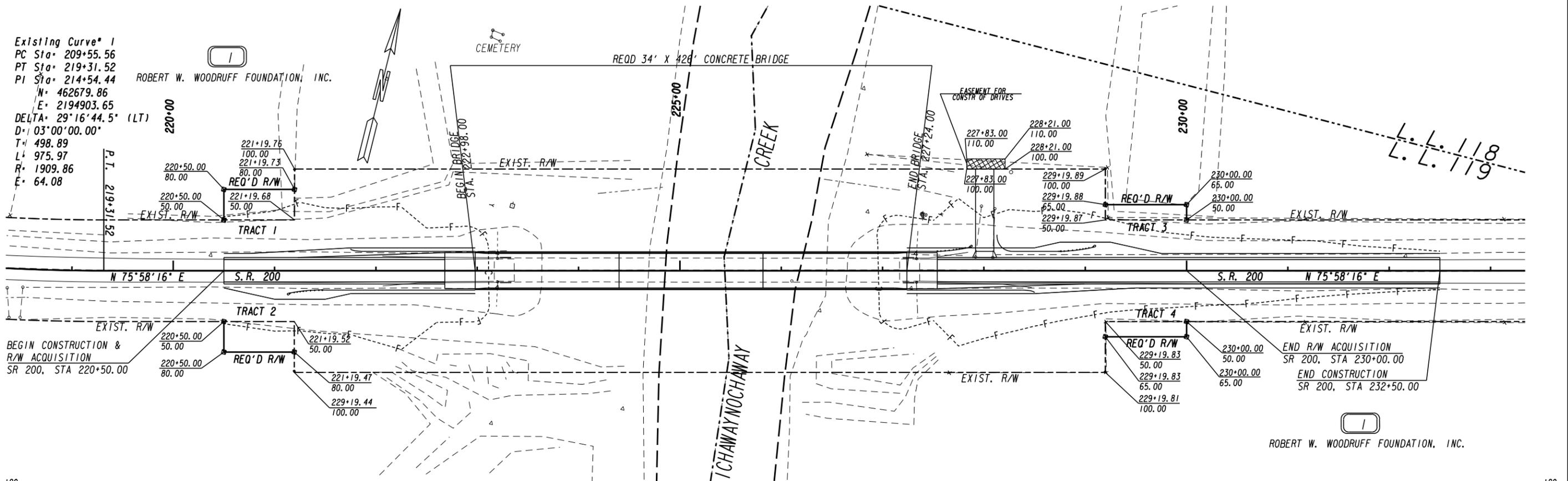
BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				\$	0	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	988.80			
Monthly Asphalt Cement Price month project let (APL)			\$	618.00			
Total Monthly Tonnage of asphalt cement (TMT)					0		

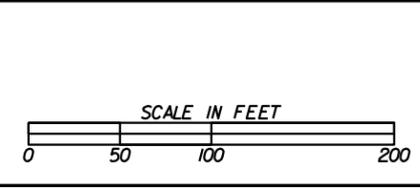
Bitum Tack

	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 \$ 17,380.80



GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION



REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: DISTRICT 4
MAINLINE PLAN & PROFILE
 S. R. 200 @
 ICHAWAYNOCHAWAY CREEK

DRAWING No.
13-001

ALLOWABLE RANGES TABLE

FOR THIS PROJECT, CROSS SLOPES THAT ARE ADJUSTED TO "BEST FIT" EXISTING PAVEMENT SLOPES ARE SUBJECT TO THE FOLLOWING LIMITS:

A. NORMAL CROWN

SECTION WITH GRADES 0.5% OR GREATER	SECTION WITH GRADES LESS THAN 0.5%
0.0150 FT/FT - MINIMUM	0.0156 FT/FT - MINIMUM
0.0208 FT/FT - DESIRABLE	0.0208 FT/FT - DESIRABLE
0.0250 FT/FT - MAXIMUM	0.0300 FT/FT - MAXIMUM

B. SUPERELEVATION RATE

S. E. RATE SHOWN ON PLANS OR SE RATE EXISTING IN FIELD, WHICHEVER IS GREATER.

C. SUPERELEVATION TRANSITION LENGTH (LENGTH FROM FLAT POINT TO FULL SE)

RATE OF CHANGE	CORRESPONDING DIFFERENCE IN GRADE BETWEEN PIVOT POINT AND EDGE OF PAVEMENT
MINIMUM 1:150	0.67%
DESIRABLE 1:200	0.50%
MAXIMUM 1:300	0.33%

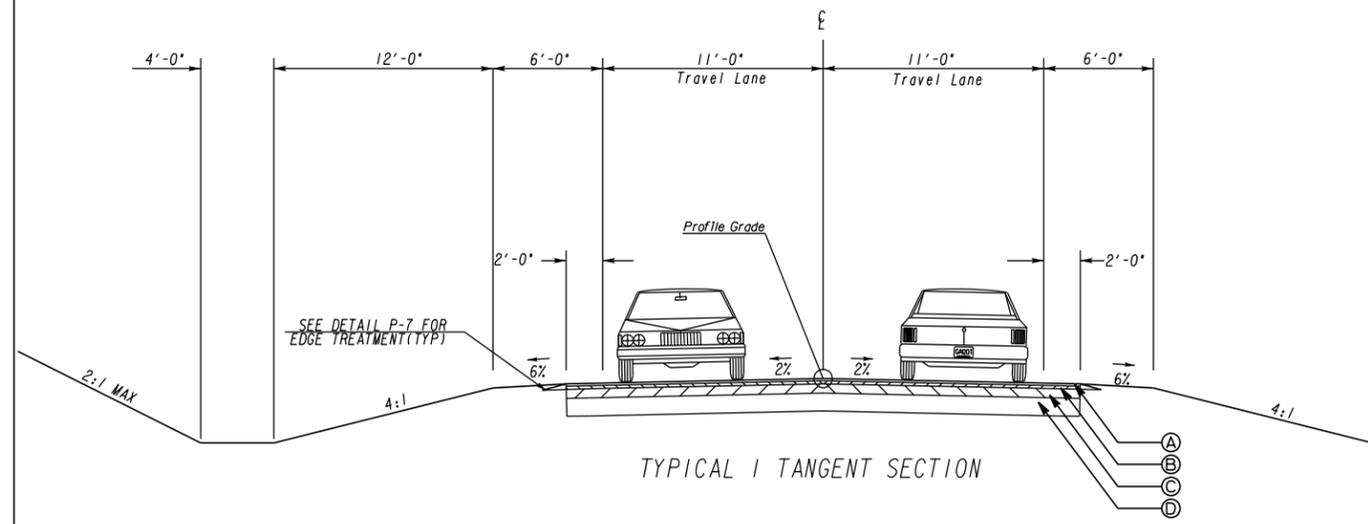
LENGTH SHALL BE SET TO AVOID CREATING A FLAT GUTTER GRADE ON LOW SIDE AND TO AVOID FLAT CROSS SLOPES AT OR NEAR THE LOW POINT OF VERTICAL CURVES.

D. POSITIONING OF SUPERELEVATION TRANSITION LENGTH ON SIMPLE CURVES

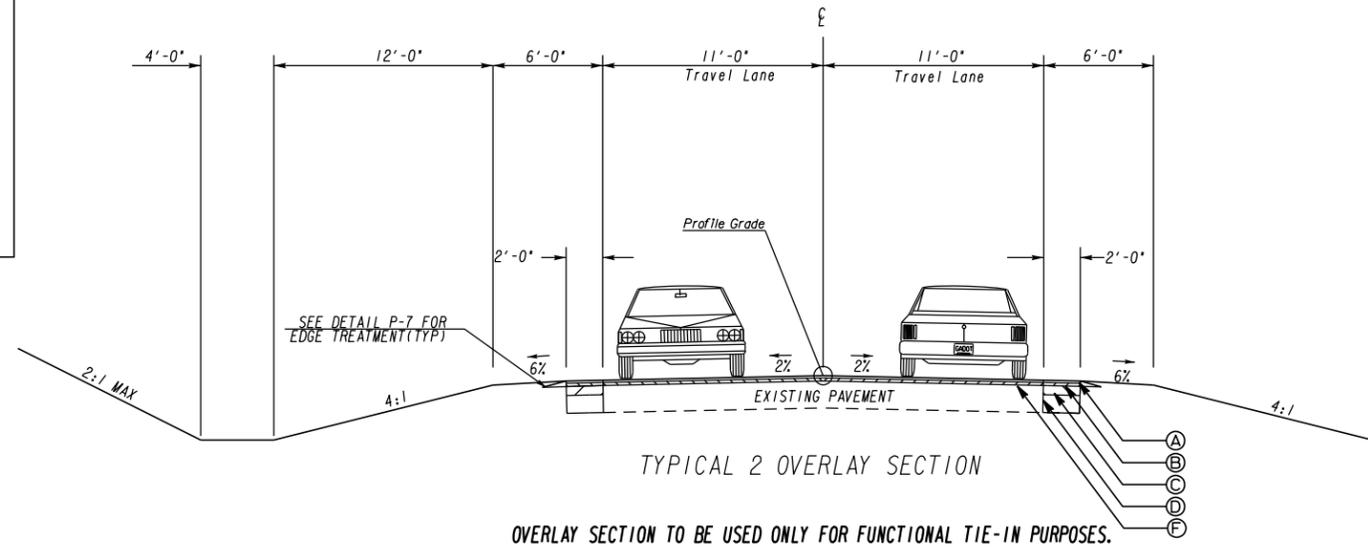
- 50% OF TRANSITION INSIDE CURVE - MAXIMUM
- 33% OF TRANSITION INSIDE CURVE - DESIRABLE
- 20% OF TRANSITION INSIDE CURVE - MINIMUM

NOTE: CROWN WIPE-OUT SHALL BE AT THE SAME RATE AS THE SE TRANSITION.

E. SMOOTHING OF BREAKS IN EDGE PROFILE AT BEGIN AND END OF TRANSITION SHALL BE ACCOMPLISHED BY VERTICAL CURVE WITH A MINIMUM LENGTH (IN FEET) EQUAL TO THE SPEED DESIGN (IN MPH).

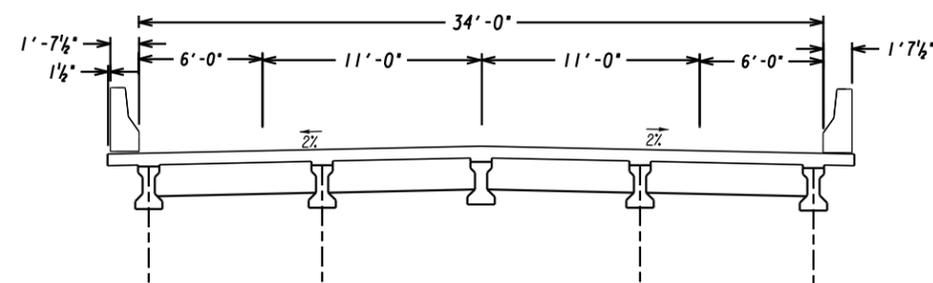


TYPICAL 1 TANGENT SECTION



TYPICAL 2 OVERLAY SECTION

OVERLAY SECTION TO BE USED ONLY FOR FUNCTIONAL TIE-IN PURPOSES.



TYPICAL 3 BRIDGE SECTION

- (A) 125 LBS/SQ YD RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE 1, GP 1 OR BLEND 1, INCL BITUM MATL & H LIME
- (B) 220 LBS/SQ YD RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME
- (C) 330 LBS/SQ YD RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME
- (D) GR AGGR BASE CRS, 8 INCH, INCL MATL
- (E) GR AGGR BASE CRS, 6 INCH, INCL MATL
- (F) RECYCLED ASPH LEVELING AS REQUIRED BY ENGINEER

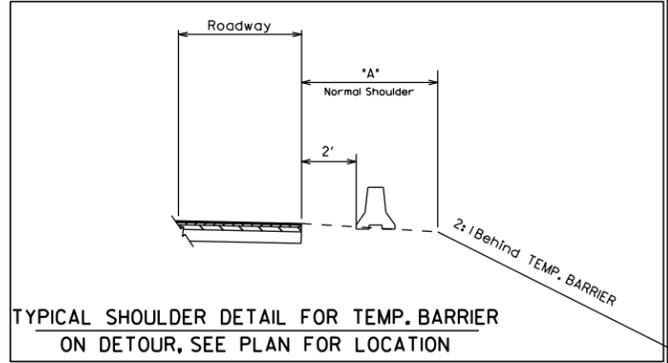
SLOPE : SEE ROADWAY PLANS FOR SUPERELEVATION RATES AND TRANSITIONS.

NOTE: FOR METHOD OF SUPERELEVATION SEE CONSTR PLAN & PROFILE SHEETS-CURVE DATA. LOCATIONS OF NORMAL CROWN & FULL S.E. NOTED ON CONSTR CENTERLINE.

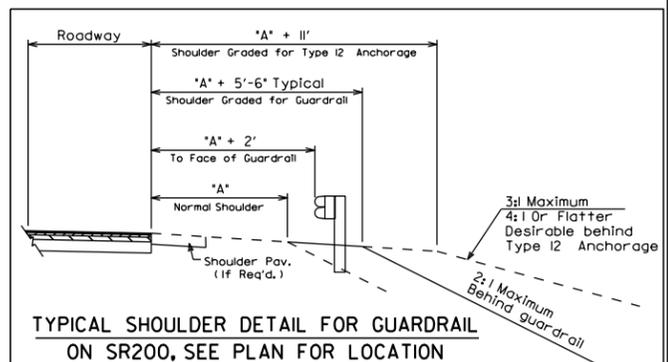
* SEE PLAN SHEETS.

SHOULDER MAY BE GRADED AWAY FROM ROADWAY TO FACILITATE THE SLOPE TIE TO EXISTING GROUND.

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



TYPICAL SHOULDER DETAIL FOR TEMP. BARRIER ON DETOUR, SEE PLAN FOR LOCATION



TYPICAL SHOULDER DETAIL FOR GUARDRAIL ON SR200, SEE PLAN FOR LOCATION

GEORGIA
DEPARTMENT
OF
TRANSPORTATION



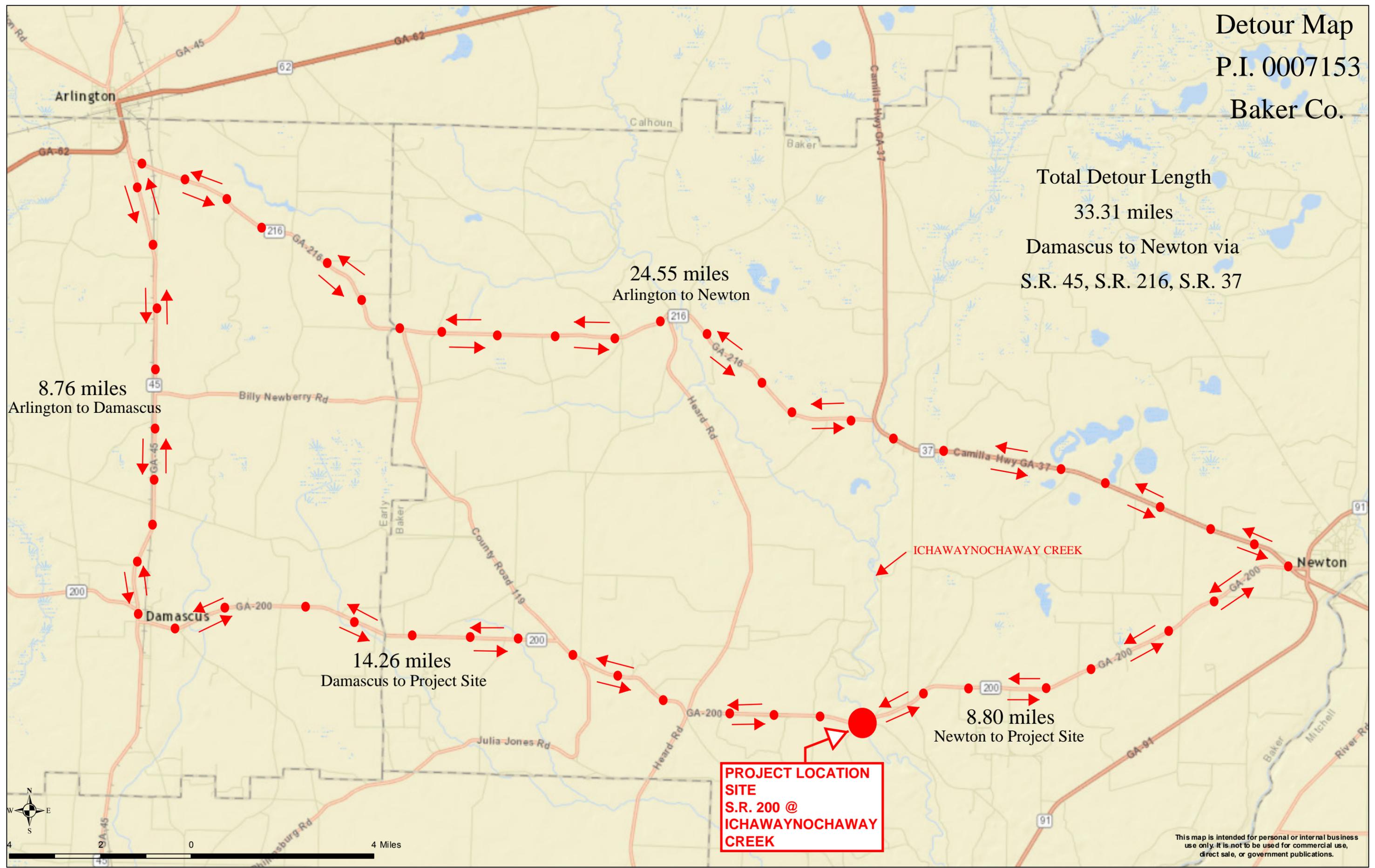
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: D4- DESIGN

TYPICAL SECTIONS

DRAWING No.
05-001

Detour Map
P.I. 0007153
Baker Co.



Total Detour Length
33.31 miles
Damascus to Newton via
S.R. 45, S.R. 216, S.R. 37

8.76 miles
Arlington to Damascus

24.55 miles
Arlington to Newton

14.26 miles
Damascus to Project Site

8.80 miles
Newton to Project Site

**PROJECT LOCATION
SITE
S.R. 200 @
ICHAWAYNOCHAWAY
CREEK**

This map is intended for personal or internal business use only. It is not to be used for commercial use, direct sale, or government publications.



Baker County Board of Commissioners



229-734-3000

167 Baker Place
P. O. Box 607
Newton, Georgia 39870
comanager@bakercountyga.com

Fax: 229-734-8822

Connie C. Hobbs, Chairman
Vann Irvin, Vice-Chairman

Tommy Rentz, Commissioner
Matt Bryan, Commissioner

Kevin Coker, Commissioner
Sherry Bailey, County Manager

September 3, 2014

Sonya Thompson
Georgia Department of Transportation
Office of Program Delivery
120 Veterans Parkway North
Moultrie, Georgia 31788

RE: THE DETOUR FOR THE PROPOSED SR 200 BRIDGE REPLACEMENT OVER ICHAWAYNOCHAWAY CREEK
PI NUMBER 0007153

Dear Ms. Thompson:

Thank you so much for the information you shared this morning during the Baker County Board of Commissioners' Called meeting to address our concerns with the proposed detour of the above project. As stated in our previous correspondence, although the detour directs traffic via Hwy 45, Hwy 216, and Hwy 37, many of the local farmers will travel Hwy 91 due to the location of their farm properties. With the width of this equipment and the slower speed of travel, the commissioners believe this will be a major safety issue for all those who travel Hwy 91.

Our first request was to have a temporary bridge constructed on Hwy 200, so that the traffic would not be rerouted. After further discussion this morning, it is recognized that an on-site detour would be a significant increase in the cost of the project. In addition, the length of time for completion would be extended. Therefore, the Baker County Board of Commissioners' would like to first request that the construction of the bridge began as early as December 1, 2015 through August 2016. If this is not possible our second request would be to schedule the construction to begin December 1, 2016 to August 2017. These time frames would avoid the detour being in place during the main harvest season and the travel of farm equipment would be more limited. We are also requesting that during the time the detour is in place additional signs would be positioned on Hwy 91 to caution drivers of possible slow moving machinery on the road.

If you need additional information, please let me know. Once again, thank you for your willingness to address our concerns and any consideration that you can provide to help us reduce the chance of a major traffic hazard in our county.

Sincerely,

Sherry Bailey
Baker County Manager



Baker County Board of Commissioners



229-734-3000

167 Baker Place
P. O. Box 607
Newton, Georgia 39870
comanager@bakercountyga.com

Fax: 229-734-8822

Connie C. Hobbs, Chairman
Vann Irvin, Vice-Chairman

Tommy Rentz, Commissioner
Matt Bryan, Commissioner

Kevin Coker, Commissioner
Sherry Bailey, County Manager

September 15, 2014

Sonya Thompson
Georgia Department of Transportation
Office of Program Delivery
120 Veterans Parkway North
Moultrie, Georgia 31788

RE: THE DETOUR FOR THE PROPOSED SR 200 BRIDGE REPLACEMENT OVER ICHAWAYNOCHAWAY CREEK
PI NUMBER 0007153

Dear Ms. Thompson:

As Baker County EMA Director, I am in agreement with the Baker County Commissioners' request for the construction of the Hwy 200 Bridge to begin as early as December 1, 2015 through August 2016. If this is not possible my second request would be to schedule the construction to begin December 1, 2016 to August 2017. As stated in the Baker County Board of Commissioners' letter, these time frames would avoid the detour being in place during the main harvest season and the travel of farm equipment would be more limited. I am also requesting that during the time the detour is in place additional signs would be positioned on Hwy 91 to caution drivers of possible slow moving machinery on the road.

If you need additional information, please let me know. Once again, thank you for your willingness to address these concerns and any consideration that you can offer to help us reduce the chance of a major traffic hazard in our county.

Sincerely,

Sherry Bailey
Baker County EMA Director

Griffin, Ralph (Sandy)

From: Thompson, Sonja
Sent: Monday, November 24, 2014 3:37 PM
To: Griffin, Ralph (Sandy)
Subject: FW: Bus Detour Route

Thank you,

*Sonja Thompson, Project Manager
Georgia Department of Transportation
Office of Program Delivery
120 Veterans Parkway North
Moultrie, Georgia 31788*

*(229)529-5300 phone
(229)891-7129 fax*

From: Hernandez, Iris
Sent: Thursday, August 21, 2014 2:47 PM
To: Pridgen, Shane; Thompson, Sonja
Subject: FW: Bus Detour Route

I just got off the phone with Dr. Choates, he said they shouldn't have any issue with the detour and I gave him the let date of Feb 2016. I told him we would reply to his comment in a formal letter within 45 days.

Thank You,

*Iris J. Hernandez
Transportation Environmental Planner (NEPA)
Georgia Department of Transportation
Environmental Services
600 West Peachtree Street, Floor 16
Atlanta, GA, 30308
Office: (404)631-1190
ihernandez@dot.ga.gov
~Practice the 4 R's for a Greener Future~
You can find the OEL Procedures manual at:
<http://www.dot.ga.gov/doingbusiness/PoliciesManuals/roads/Pages/EnvironmentalProceduresManual.aspx>
Please consider the environment - do you really need to print this email?*

From: Dr. Torrance Choates [<mailto:tchoates@baker.k12.ga.us>]
Sent: Thursday, August 21, 2014 2:44 PM
To: Hernandez, Iris
Cc: Sunshine Denney; Dianne Sheffield
Subject: Bus Detour Route

Mrs. Hernandez,

I am Dr. Torrance Choates -Superintendent of Baker County Schools and I have contacted our Bus Director Mr. Norman Hawkins. We have 2 buses that could be affected but we are prepared to make the necessary route detours that we need to make....We understand that this will not take place until February 2016....Thanks

Please keep us informed:

Dr. Torrance Choates-**Superintendent** -(229) 603-2808 cell (229) 734-5274 work
Norman Hawkins - **Bus Director** (229) 881-6520

Thanks.... Again

Georgia DOT provides technical expertise to support the Savannah Harbor Expansion Project (SHEP) which will help to create more than 11,000 jobs in the Southeast and nationally, reduce shipping costs by \$213 million a year, provide \$174 million in annual net benefits—yielding a \$5.5 return for each dollar invested. The expanded harbor will accommodate larger vessels that are the new standard in global shipping. Visit us at <http://www.dot.ga.gov>; or follow us on <http://www.facebook.com/GeorgiaDOT> and <http://twitter.com/gadepoftrans>