

ORIGINAL TO GENERAL FILES

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. #0007173 **OFFICE** Design Policy & Support
CSBRG-0007-00(173)
GDOT District 3 - Thomaston
Dooly County **DATE** June 7, 2012
SR 230 Bridge Replacement @
Turkey Creek

FROM  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:

Genetha Rice-Singleton, Program Control Administrator
Bobby Hilliard, State Program Delivery Engineer
Cindy VanDyke, State Transportation Planning Administrator
Angela Robinson, Financial Management Administrator
Glenn Bowman, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Andy Casey, State Roadway Design Engineer
Attn: Jason Mobley, Design Group Manager
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Lisa Myers, State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Michael Henry, Systems & Classification Branch Chief
David Millen, District Engineer
Bill Rountree, District Preconstruction Engineer
Kerry Gore, District Utilities Engineer
Tyler Peek, Project Manager
BOARD MEMBER - 2nd Congressional District

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

Project Type: Bridge Replacement
GDOT District: Three
Federal Route Number: N/A

P.I. Number: 0007173
County: Dooly
State Route Number: 230

The lane width of the road will change from 12 feet to 11 feet. The shoulder width will change from ten feet to six feet. The changes will reduce impacts and cost while still adhering to AASHTO policy.

Submitted for approval:

David B. Miller 3-13-12
District Engineer DATE

Bobby Hilliard 3-22-2012
State Program Delivery Engineer DATE

Tyler D. Feib 3/13/12
GDOT Project Manager DATE

Recommendation for approval:

GLENN BOWMAN*/EKP 3/30/12
State Environmental Administrator DATE

BEN RABUN*/EKP 4/17/12
State Bridge Design 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).

Cynthia L. Nuyke 4-11-12
State Transportation Planning Administrator DATE

** - RECOMMENDATION ON FILE*

PLANNING, APPROVED CONCEPT, & BACKGROUND DATA

Project Justification Statement: *The project will replace and widen the structurally deficient bridge located on SR 230 over Turkey Creek. The bridge has a sufficiency rating of 61.88 with a load rating of H-15(below standards).*

Description of the approved concept: *Project Number CSBRG-0007-00(173) will replace and widen the structurally deficient bridge located on SR 230 over Turkey Creek. The bridge is located in western Dooly County. The bridge provides the primary connection between the communities of Byromville and Unadilla. This corridor also provides residents of Western Dooly County direct access to Interstate 75. The bridge over Turkey Creek connects SR 90 to SR 329 near Unadilla. The project extends for approximately 0.14 mile at road inventory milepost 15.20.*

The existing bridge is a 90-ft x 26-ft concrete and steel bridge built in 1965. The proposed bridge will be a 125-ft by 38-ft reinforced concrete structure and is proposed to be approximately two feet above the existing bridge, based on the hydraulic study conducted. SR 230 will be closed at this location during construction and an off-site detour will be established.

PDP Classification: Major Minor

Federal Oversight: Full Oversight Exempt State Funded Other

Projected Traffic as shown in the approved Concept Report: AADT

Open Year (2013): 500 VPD

Design Year (2033): 650 VPD

Updated Traffic: AADT

Open Year (2015): 525 VPD

Design Year (2035): 675 VPD

Functional Classification (Mainline): Rural Major Collector

VE Study anticipated: No Yes Completed – Date:

PROPOSED REVISIONS

Approved Features:	Proposed Features:
<i>The travel lanes are 12 feet and the shoulders are 10 feet (2-foot paved and 8 foot grass)</i>	<i>The travel lanes will be changed to 11 feet and the shoulder will be changed to six feet(2 foot paved and 4 foot grass)</i>
Reason(s) for change: To reduce the cost and impact of project.	

ENVIRONMENTAL

Air Quality:

Is the project located in a PM 2.5 Non-attainment area?
 Is the project located in an Ozone Non-attainment area?

No Yes
 No Yes

Potential environmental impacts of proposed revision: *The design that is proposed reduces the footprint of the project. No impacts are expected.*

Have proposed revisions been reviewed by environmental staff? No Yes

Environmental responsibilities (Studies/Documents/Permits): *GDOT & Environmental consultant will provide a Categorical Exclusion and a 404 permit.*

PROJECT COST & ADDITIONAL INFORMATION

Updated Cost Estimate		Date of Estimate
Base Construction Cost:	1,081,634.86	12/9/2011
Engineering and Inspection:	54,081.74	
Liquid AC Adjustment:	23,937.26	
<u>Total Construction Cost:</u>	1,159,653.86	
Right-of-Way:	75,000.000	6/22/2011
Utilities (reimbursable costs):	22,050.00	6/22/2011
Environmental Mitigation:	100,000.00	1/19/2012
TOTAL PROJECT COST:	1,656,703.86	

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

Attachments:

1. Project Location Sketch
2. Cost Estimate(s)
3. Updated Design Traffic
4. Bridge Inventory Data
5. Revised Typical Section
6. Concept Layout
7. Concept Profile

APPROVALS

Exempt Projects

Concur: *Paul R McManis*
Director of Engineering

Approve: *Debra M Purn*
Chief Engineer

 6/4/2012
Date

STATE HIGHWAY AGENCY

DATE : 12/12/2011
PAGE : 1

JOB DETAIL ESTIMATE

JOB NUMBER : 0007173 DOOLY SPEC YEAR: 01
DESCRIPTION: BRIDGE REPLACEMENT SR230 OVER TURKEY CREEK

ITEMS FOR JOB 0007173 DOOLY

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - CSBRG-0007-00(173)	1.000	16000.00	16000.00
0010	210-0100		LS	GRADING COMPLETE - CSBRG-0007-00(173)	1.000	200000.00	200000.00
0015	310-1101		TN	GR AGGR BASE CRS, INCL MATL	2000.000	20.00	40000.00
0020	318-3000		TN	AGGR SURF CRS	500.000	20.00	10000.00
0025	402-1811		TN	RECYL AC LEVELING, INCL BM	200.000	89.42	17884.07
0029	402-3100		TN	REC AC 9.5 MM SP,TPI,GPIOREBL1,INCL BM&HL	250.000	80.00	20000.00
0034	402-3121		TN	RECYL AC 25MM SP,GPI/2,BM&HL	510.000	82.95	42308.97
0035	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	400.000	89.42	35771.62
0040	413-1000		GL	BITUM TACK COAT	550.000	3.23	1780.82
0045	433-1000		SY	REINF CONC APPROACH SLAB	280.000	157.06	43977.12
0049	436-1000		LF	ASPH CONC CURB - 5 IN.	500.000	8.17	4086.46
0050	441-0303		EA	CONC SPILLWAY, TP 3	4.000	1591.13	6364.53
0055	550-2180		LF	SIDE DR PIPE 18",H 1-10	50.000	29.55	1477.65
0060	550-3418		EA	SAFETY END SECTION 18",SD,4:1	1.000	366.92	366.93
0065	550-3618		EA	SAFETY END SECTION 18",SD,6:1	1.000	463.76	463.76
0070	641-1100		LF	GUARDRAIL, TP T	84.000	71.52	6008.04
0075	641-1200		LF	GUARDRAIL, TP W	550.000	16.19	8908.01
0080	641-5001		EA	GUARDRAIL ANCHORAGE, TP 1	2.000	618.28	1236.58
0085	641-5012		EA	GUARDRAIL ANCHORAGE, TP 12	2.000	1779.44	3558.88
0090	643-8200		LF	BARRIER FENCE (ORANGE), 4 FT	550.000	2.18	1204.34
0095	634-1200		EA	RIGHT OF WAY MARKERS	10.000	102.57	1025.75
0100	163-0232		AC	TEMPORARY GRASSING	3.000	876.69	2630.07
0105	163-0240		TN	MULCH	200.000	250.00	50000.00
0110	163-0300		EA	CONSTRUCTION EXIT	2.000	1312.28	2624.57
0115	163-0503		EA	CONSTR AND REMOVE SILT CONTROL GATE, TP 3	2.000	455.22	910.45
0120	163-0520		LF	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	250.000	13.59	3399.39
0144	163-0527		EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	24.000	247.31	5935.59
0145	163-0528		LF	CONSTR AND REM FAB CK DAM -TP C SLT FN	24.000	5.97	143.28
0150	163-0529		LF	CNST/REM TEMP SED BAR OR BLD STRW CK DM	11000.000	2.95	32493.67
0155	165-0010		LF	MAINT OF TEMP SILT FENCE, TP A	550.000	0.76	422.60
0160	165-0030		LF	MAINT OF TEMP SILT FENCE, TP C	1100.000	0.75	825.81
0165	165-0041		LF	MAINT OF CHECK DAMS - ALL TYPES	550.000	2.50	1375.00
0170	165-0071		LF	MAINT OF SEDIMENT BARRIER - BALED STRAW	550.000	1.00	550.00
0175	165-0087		EA	MAINT OF SILT CONTROL GATE, TP 3	2.000	110.24	220.48
0180	165-0101		EA	MAINT OF CONST EXIT	2.000	438.44	876.90
0185	167-1000		EA	WATER QUALITY MONITORING AND SAMPLING	2.000	327.25	654.50
0190	167-1500		MO	WATER QUALITY INSPECTIONS	12.000	842.60	10111.24

STATE HIGHWAY AGENCY

DATE : 12/12/2011
PAGE : 2

JOB DETAIL ESTIMATE

0195	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	500.000	2.32	1162.94
0200	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	2200.000	3.02	6658.34
0205	700-7000	TN	AGRICULTURAL LIME	4.000	112.87	451.52
0215	700-8000	TN	FERTILIZER MIXED GRADE	3.000	480.23	1440.70
0220	700-8100	LB	FERTILIZER NITROGEN CONTENT	400.000	2.47	988.91
0225	603-2182	SY	STN DUMPED RIP RAP, TP 3, 24"	500.000	40.00	20000.00
0230	603-7000	SY	PLASTIC FILTER FABRIC	500.000	3.50	1750.00
0235	700-6910	AC	PERMANENT GRASSING	3.000	1469.29	4407.89
0240	715-2200	SY	BITUM TRTD ROVING, WATERWAYS	300.000	2.15	645.17
0245	716-2000	SY	EROSION CONTROL MATS, SLOPES	1600.000	1.35	2161.47
0250	636-1033	SP	HWY SIGNS, TPLMAT, REFL SH TP 9	18.000	17.49	314.83
0255	636-2070	LF	GALV STEEL POSTS, TP 7	26.000	7.90	205.51
0260	652-5451	LF	SOLID TRAF STRIPE, 5 IN, WHITE	2000.000	0.23	463.18
0264	636-5010	EA	DELINEATOR, TP 1	12.000	47.23	566.81
0265	654-1001	EA	RAISED PVMT MARKERS TP 1	50.000	4.68	234.24
0270	652-5452	LF	SOLID TRAF STRIPE, 5 IN, YELLO	2000.000	0.18	371.08
0275	657-1085	LF	PRF PL SD PVT MKG, 8", B/W, TP PB	400.000	6.35	2543.04
0280	657-6085	LF	PRF PL SD PVMT MKG, 8", B/Y, TPPB	400.000	6.74	2699.35
0285	540-1101	LS	REM OF EX BR, STA NO - 1	1.000	59000.00	59000.00
0290	543-9000	LS	CONSTR OF BRIDGE COMPLETE - 1	1.000	369000.00	369000.00
0294	603-2024	SY	STN DUMPED RIP RAP, TP 1, 24"	600.000	48.17	28905.49
0295	603-7000	SY	PLASTIC FILTER FABRIC	600.000	3.44	2067.31

ITEM TOTAL 1081634.87
INFLATED ITEM TOTAL 1081634.86

TOTALS FOR JOB 0007173 DOOLY

ESTIMATED COST: 1081634.86
CONTINGENCY PERCENT (0.0): 0.00
ESTIMATED TOTAL: 1081634.86

TASKS FOR JOB ITEM LINE NUMBER: 0005

TASK: REF 001 TYPE: REFERENCE PRICE ACTIVE?: N
VALUE: 10000.00000
FORMULA:
COMMENT: ADHOC REFERENCE PRICE

TASK: REF 002 TYPE: REFERENCE PRICE ACTIVE?: Y
VALUE: 16000.00000
FORMULA:
COMMENT: ADHOC REFERENCE PRICE

TASKS FOR JOB ITEM LINE NUMBER: 0010

TASK: REF 001 TYPE: REFERENCE PRICE ACTIVE?: N

PROJ. NO.
P.I. NO.
DATE

CSBRG-0007-00(173)
007173
12/7/2011

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Dec-11	\$ 3.209
DIESEL		\$ 3.863
LIQUID AC		\$ 567.00

Link to Fuel and AC Index:

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

LIQUID AC ADJUSTMENTS

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

Asphalt

Price Adjustment (PA)				23133.6	\$	23,133.60
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	907.20		
Monthly Asphalt Cement Price month project let (APL)			\$	567.00		
Total Monthly Tonnage of asphalt cement (TMT)				68		

ASPHALT	Tons	%AC	AC ton
Leveling	200	5.0%	10
12.5 OGFC		5.0%	0
12.5 mm		5.0%	0
9.5 mm SP	250	5.0%	12.5
25 mm SP	510	5.0%	25.5
19 mm SP	400	5.0%	20
	1360		68

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$ 803.66	\$	803.66
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	907.20		
Monthly Asphalt Cement Price month project let (APL)			\$	567.00		
Total Monthly Tonnage of asphalt cement (TMT)				2.362305507		

Bitum Tack

Gals	gals/ton	tons
550	232.8234	2.36230551

PROJ. NO.

CSBRG-0007-00(173)

CALL NO.

P.I. NO.

007173

DATE

12/7/2011

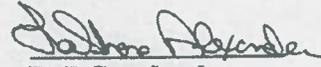
BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)					0	\$	-
Monthly Asphalt Cement Price month placed (APM)		Max. Cap	60%	\$	907.20		
Monthly Asphalt Cement Price month project let (APL)				\$	567.00		
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

TOTAL LIQUID AC ADJUSTMENT **\$ 23,937.26**

Preliminary Right of Way Cost Estimate



Phil Copeland
Right of Way Administrator
By: LaShone Alexander

Date: June 22, 2011

Project: CSBRG-0007-00 (178) Dooly

UPDATE

P.L. Number: 0007173

Existing/Required R/W: Varies/Varies

No. Parcels: 3

Project Termini : Bridge Replacement SR 230 at Turkey Creek North of Byromville

Project Description: Bridge Replacement SR 230 at Turkey Creek North of Byromville

Land:

Residential/ Agricultural

1.24 Acres @ \$ 12,000 / ac. =

\$ 14,880

Improvements :

Misc, landscaping

\$ 15,000

Relocation:

Commercial @ \$ 25,000 =

Residential @ \$ 40,000

\$

Damage :

Proximity

\$ 0

Cost to Cure

\$ 0

Consequential

\$ 000

\$ 000

\$ 29,880

Net Cost

\$ 29,880

Scheduling Contingency 55 %

16,434

Adm/Court Cost 60

27,788

\$ 74,102

Total Cost \$ 75,000

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

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(173), Dooly County, P.I. # 0007173 **OFFICE** Thomaston
SR-230 Bridge Replacement @ Turkey Creek North of Byromville **DATE** June 22, 2011

FROM Kerry Gore, District Utilities Engineer

TO Jason Mobley, Project Manager

SUBJECT PRELIMINARY UTILITY COST (ESTIMATE)

As requested by your office, we are furnishing you with a Preliminary Utility Cost estimate for each utility with facilities potentially located within the project limits.

<u>FACILITY OWNER</u>	<u>NON-REIMBURSABLE</u>	<u>REIMBURSABLE</u>
Middle Georgia EMC	0	22,050
Windstream	16,538	0
TOTALS	\$16,538	\$22,050

Total Preliminary Utility Cost Estimate **\$38,588**.

If you have any questions, please contact Harland Smith at 706-646-6696.

KG/hs

cc: Jeff Baker, P.E., State Utilities Engineer (via: e-mail)
Angela Whitworth, Treasurer/Office of Financial Management (via: e-mail)
Brink Stokes, Area Engineer (via: e-mail)

Peek, Tyler

From: Chamblin, Douglas
Sent: Monday, January 09, 2012 4:46 PM
To: Peek, Tyler; Cox, Jonathan
Cc: Hedeem, Meghan W.; D'Avino, Gail; Reed, Jack; Westberry, Lisa
Subject: RE: 2011-12-08 0007173 Dooly County cost update for revised concept

Tyler- For a rough estimate, you can go with \$100K. That would assume about 5 WL (approximately \$17K each) credits and 400 stream credits (approximately \$30 each). It could end up being \$0 if we have no impacts or it could be a little more if there are a lot of wetlands in the area or if the market for credits changes. I think this is a good middle of the road estimate.

Doug Chamblin
Georgia Department of Transportation
600 West Peachtree Street
Atlanta, GA 30308
(404) 631-1447
dchamblin@dot.ga.gov

From: Peek, Tyler
Sent: Monday, January 09, 2012 4:27 PM
To: Chamblin, Douglas; Cox, Jonathan
Cc: Hedeem, Meghan W.; D'Avino, Gail; Reed, Jack; Westberry, Lisa
Subject: RE: 2011-12-08 0007173 Dooly County cost update for revised concept

Doug/Jonathan,

A Task Order is in the works for NEPA and Ecology. I have e-mailed Jack Reed for an update on the PRF. As far as mitigation costs, District Design is drafting a revised concept due to the some changes in lane width and shoulder typical section. As part of the revised concept, we are required to include a cost for environmental mitigation (similar to including costs for utilities, R/W, etc.). We can put an amount of zero or an average for bridge projects as Jonathan recommended (or any other amount that you would prefer). Please advise what amount you would like for us to include. It's doesn't have to been a precise number, just an estimate based on the project information known to-date.

Tyler D. Peek, E.I.T.

Project Manager
Office of Program Delivery
GDOT - District Three
706.646.6668 (Work)
706.741.5309 (Cell)
tpeek@dot.ga.gov

From: Chamblin, Douglas
Sent: Monday, January 09, 2012 4:15 PM
To: Cox, Jonathan; Peek, Tyler

Cc: Hedeem, Meghan W.; D'Avino, Gail; Reed, Jack; Westberry, Lisa
Subject: FW: 2011-12-08 0007173 Dooly County cost update for revised concept

I don't think any ecology work has been done on this, although I think a district TO is in the works. We could give a rough estimate for mitigation cost, but it would be an educated guess and it could end up being way off. Can we wait until after the consultant completes their ecology report? If you need something now, Lisa or I could prepare an estimate, but I just wanted to warn you that it is little more than a guess.

Just let me know whether you want me to wait or you need an estimate now. Thanks,

Doug Chamblin
Georgia Department of Transportation
600 West Peachtree Street
Atlanta, GA 30308
(404) 631-1447
dchamblin@dot.ga.gov

From: Cox, Jonathan
Sent: Monday, January 09, 2012 8:36 AM
To: Peek, Tyler; Collazo, Jaime; Hedeem, Meghan W.; Reed, Jack
Cc: Mobley, Jason; D'Avino, Gail
Subject: RE: 2011-12-08 0007173 Dooly County cost update for revised concept

Thanks for following up. I am still extremely behind on emails.

Jaime/Meg – Tyler is working on the concept report and there is a section in there concerning environmental mitigation cost. I'd assume we are at risk for some type of credit cost. Since this is a bridge, should he put in some type of average bridge cost for this type of project – what would you recommend?

Tyler – Back in Oct, you noted that Jack had sent the PRF into procurement for the environmental task order. What's the status?

Thanks.

JC

From: Peek, Tyler
Sent: Monday, January 09, 2012 8:23 AM
To: Cox, Jonathan
Cc: Mobley, Jason
Subject: RE: 2011-12-08 0007173 Dooly County cost update for revised concept

Jonathan...Were you able to find out about Environmental Mitigation on this?

Tyler D. Peek, E.I.T.
Project Manager
Office of Program Delivery
GDOT - District Three

706.646.6668 (Work)
706.741.5309 (Cell)
tpeek@dot.ga.gov

From: Peek, Tyler
Sent: Thursday, December 15, 2011 9:19 AM
To: Cox, Jonathan
Subject: FW: 2011-12-08 0007173 Dooly County cost update for revised concept

Jonathan...Will we be needing Environmental Mitigation credits for this project? Design is preparing a revised concept and needed to incorporate this if we needed it. Please advise.

Tyler D. Peek, E.I.T.

Project Manager
Office of Program Delivery
GDOT - District Three
706.646.6668 (Work)
706.741.5309 (Cell)
tpeek@dot.ga.gov

From: Flint, Constance
Sent: Monday, December 12, 2011 11:31 AM
To: Peek, Tyler
Cc: Mobley, Jason
Subject: FW: 2011-12-08 0007173 Dooly County cost update for revised concept

Tyler, I'm assuming that you found out that we don't have any cost due to Environmental Mitigation. We discussed this Thursday in Jason's office, please let me know if this assumption is correct. Thanks!

From: Mobley, Jason
Sent: Monday, December 12, 2011 9:02 AM
To: Flint, Constance
Subject: RE: 2011-12-08 0007173 Dooly County cost update for revised concept

Constance, I think you can complete the revised concept now. Please submit for my review.

Jason W. Mobley, P.E. - District Design Engineer
Georgia Department of Transportation, District 3
115 Transportation Boulevard, Thomaston, Georgia 30286
Phone: (706)-646-6990 Fax: (706)-646-6722

From: Peek, Tyler
Sent: Friday, December 09, 2011 10:04 AM

To: Flint, Constance; Mobley, Jason

Subject: FW: 2011-12-08 0007173 Dooly County cost update for revised concept

Please incorporate the new cost estimate in CES into the revised concept. Existing R/W and Utility cost estimates should remain as they are. Thanks!

Tyler D. Peek, E.I.T.

Project Manager

Office of Program Delivery

GDOT - District Three

706.646.6668 (Work)

706.741.5309 (Cell)

tpeek@dot.ga.gov

From: McKissick, Gene

Sent: Friday, December 09, 2011 10:02 AM

To: Peek, Tyler

Cc: Mobley, Jason; Flint, Constance

Subject: RE: 2011-12-08 0007173 Dooly County cost update for revised concept

Estimate has been updated; CES switched to District 3.

From: Peek, Tyler

Sent: Thursday, December 08, 2011 3:38 PM

To: McKissick, Gene

Cc: Mobley, Jason; Flint, Constance

Subject: FW: 2011-12-08 0007173 Dooly County cost update for revised concept

Gene,

The subject project (SR 230 over Turkey Creek) requires a revised concept and needs an updated cost estimate to send with it. Control of this project in CES has been transferred to Engineering Services. Please provide this office with an updated construction cost estimate based on the updated quantities. Please let me know if you need any additional information. Thanks!

Tyler D. Peek, E.I.T.

Project Manager

Office of Program Delivery

GDOT - District Three

706.646.6668 (Work)

706.741.5309 (Cell)

tpeek@dot.ga.gov

From: Flint, Constance

Sent: Thursday, December 08, 2011 3:29 PM

To: Peek, Tyler

Cc: Mobley, Jason

Subject: 2011-12-08 0007173 Dooly County cost update for revised concept

<< File: 2011-12-08 cost update for revised concept_docx.pdf >>

NO BUILD = BUILD
Department of Transportation
State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE CSBRG-0007-00(173), Dooly County **OFFICE** Planning
P.I. # 0007173
DATE February 14, 2012

FROM Cindy VanDyke, State Transportation Planning Administrator

TO Bobby Hilliard, PE, State Program Delivery Engineer
Attention: Tyler D. Peek

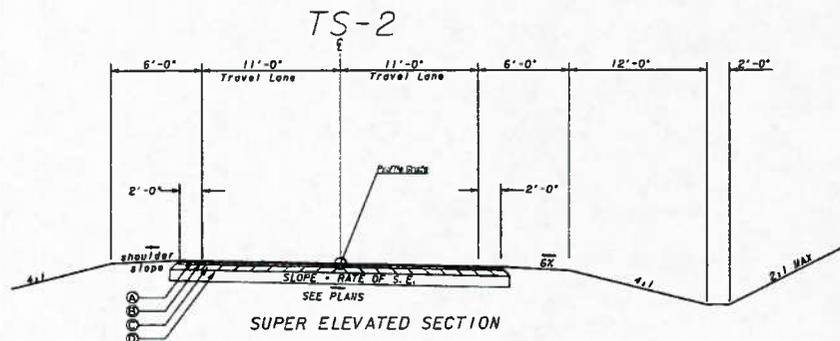
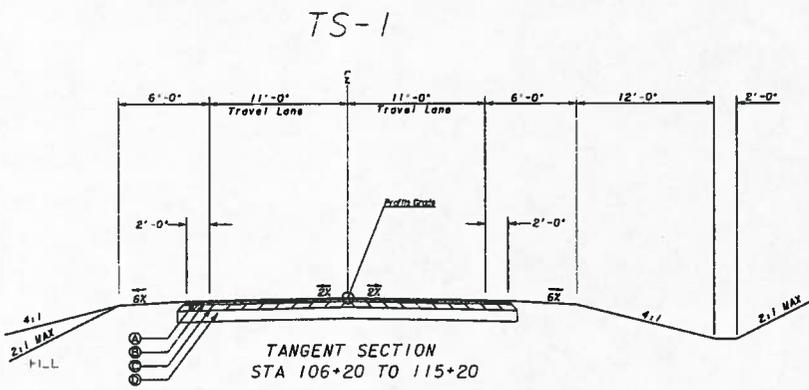
SUBJECT Traffic Assignments Update for SR 230 @ Turkey Creek 5.5 MI Northeast of
Byromville.

We are furnishing estimated Updated Traffic Assignments for the above project as follows:

	TC# 0069
2009 AADT	475
2015 AADT	525
2035 AADT	675
2009 DHV	50
2015 DHV	55
2035 DHV	70
K	10%
D	60%
T	6%
S.U.	4%
COMB.	2%
24 HR. T.	7%
S.U.	5%
COMB.	2%

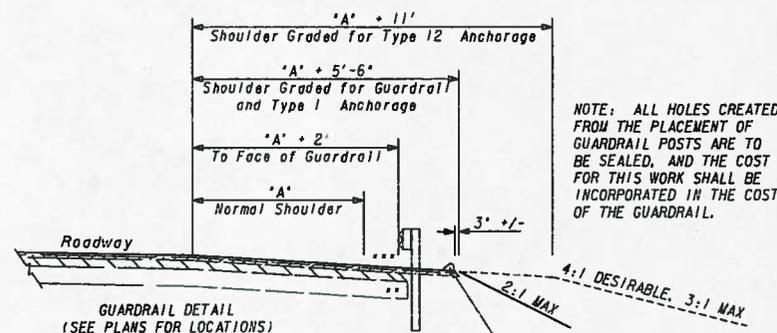
If you have any questions concerning this information please contact
Leslie R. Woods at (404) 631-1773.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSBG 0007-001131 0001		



SHOULDER SLOPES SEE CROSS SECTION PLANS

- (A) RECYCLED ASPH CONC 9.5 MM SUPERPAVE TYPE 11 (137.5 LB/SY)
- (B) RECYCLED ASPH CONC 19 MM SUPERPAVE (220 LB/SY)
- (C) RECYCLED ASPH CONC 25 MM SUPERPAVE (440 LB/SY)
- (D) GRADED AGGREGATE BASE, 12 IN



NOTE: ALL HOLES CREATED FROM THE PLACEMENT OF GUARDRAIL POSTS ARE TO BE SEALED, AND THE COST FOR THIS WORK SHALL BE INCORPORATED IN THE COST OF THE GUARDRAIL.

ASPHALTIC CONCRETE CURB (5') GA. DTL. D-26 - TO BE USED ONLY IN AREAS WHERE DRAINAGE BEHIND GUARDRAIL IS DETERMINED TO BE A POTENTIAL PROBLEM. CURB SHALL NOT BE PLACED BEHIND ANCHORS.

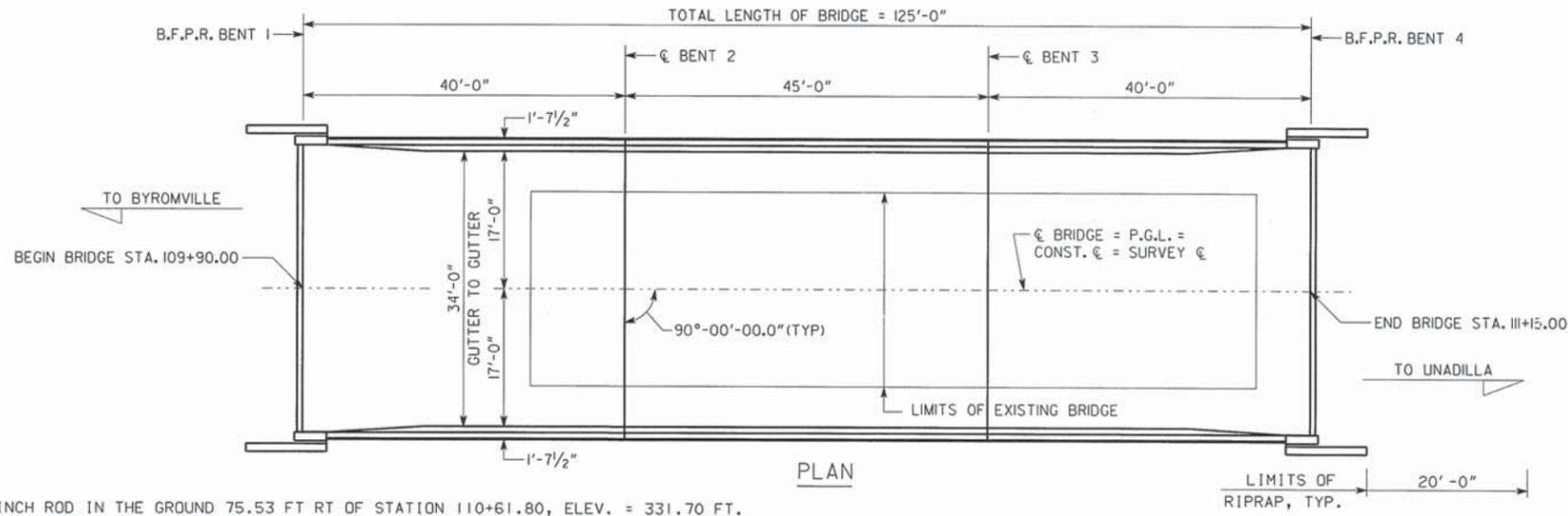
** IF ADT < 2000 VPD AND PAVED SHOULDERS ARE NOT NEEDED FOR STAGING, GAB AND 25mm COURSE SHALL TERMINATE AT THE NORMAL PAVED SHOULDER.

*** IF GUARDRAIL MUST BE PLACED PRIOR TO PAVING THE TOP SURFACE, THE TOP SURFACE PAVING SHALL TERMINATE AT THE FACE OF GUARDRAIL

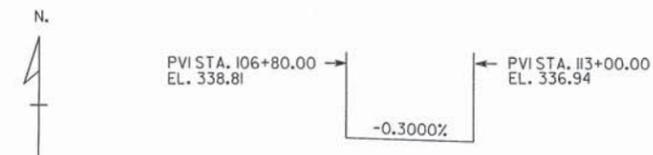
GEORGIA
DEPARTMENT
OF
TRANSPORTATION

**NOT
TO
SCALE**

REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE: DISTRICT 3 DESIGN TYPICAL SECTIONS
	SR 230
	5-01



BM SVA 2144: 3/8 INCH ROD IN THE GROUND 75.53 FT RT OF STATION 110+61.80, ELEV. = 331.70 FT.



PROPOSED GRADE DATA

DESIGN DATA

SPECIFICATIONS ----- AASHTO 17TH EDITION, 2002
 (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)
 TYPICAL HS20-44 AND/OR MILITARY LOADING ----- IMPACT ALLOWED
 FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

DRAINAGE DATA

DRAINAGE AREA ----- 10.23 SQ MILES

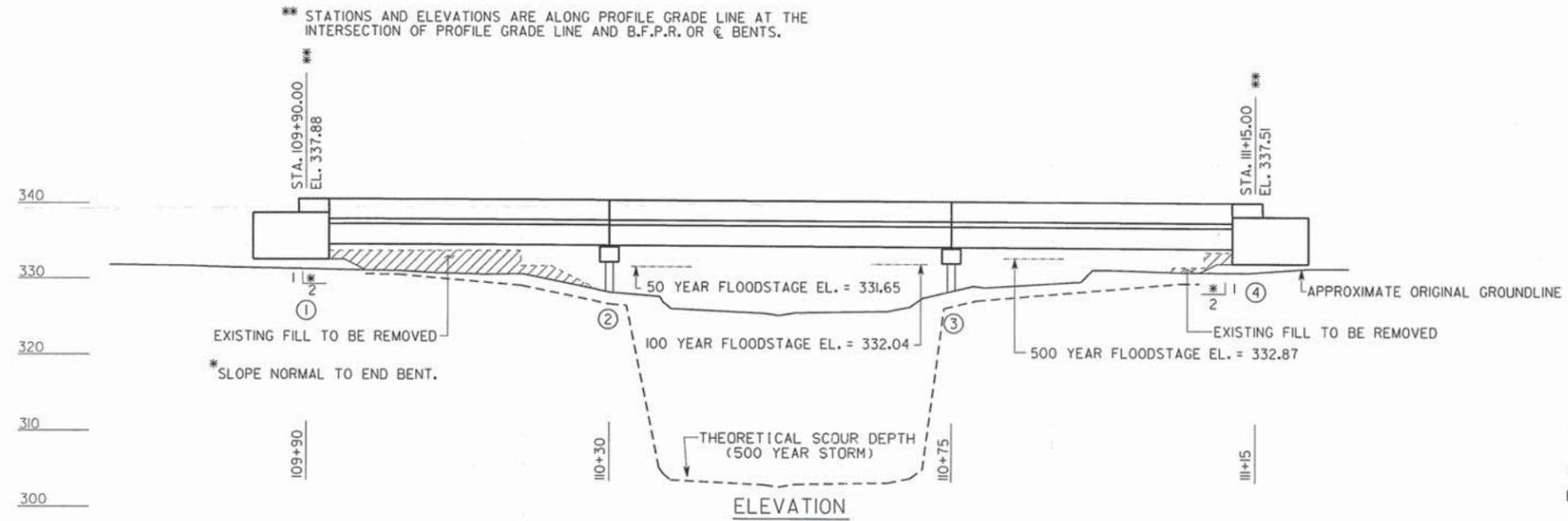
FLOOD FREQUENCY	TOTAL DISCHARGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	1250 CFS	4.01 FPS	312 SQ FT	0.94 FT
100 YEAR	1510 CFS	4.28 FPS	352 SQ FT	1.07 FT
500 YEAR	2130 CFS	4.80 FPS	444 SQ FT	1.33 FT

BRIDGE CONSISTS OF

- 1 - 45'-0" TYPE I MOD PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - 40'-0" TYPE I MOD PSC BEAM SPANS ----- SPECIAL DESIGN
- 2 - PILE END BENTS ----- SPECIAL DESIGN
- 2 - PILE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 24" TYPE I RIPRAP

NOTES

- CROSS-SLOPE - THE PROPOSED BRIDGE DECK IS TO BE BUILT ON A NORMAL CROWN OF 2.0%.
- BENT LAYOUT - ALL BENTS ARE PARALLEL.
- BEAM ELEVATION - MINIMUM BOTTOM OF BEAM ELEVATION FOR PROPOSED BRIDGE SHALL BE NO LOWER THAN ELEVATION 333.65.
- BRIDGE REMOVAL - REMOVE EXISTING BRIDGE. REMOVE EXISTING SUBSTRUCTURE AS PER THE SPECIFICATIONS.
- S.R. 230 WILL BE CLOSED TO TRAFFIC DURING THE PROPOSED CONSTRUCTION. TRAFFIC TO BE MAINTAINED BY UTILIZING AN OFF-SITE DETOUR.
- DECK DRAINS - DECK DRAINS TO BE PLACED AT 10 FT SPACING. ELIMINATE DECK DRAINS OVER ENDFILLS.



ELEVATION

TRAFFIC DATA

TRAFFIC ----- ADT = 500 (2013)
 ----- ADT = 650 (2033)
 DESIGN SPEED ----- 55 MPH
 TRUCKS ----- 6 %
 24 HR TRUCKS ----- 8.5 %
 DIRECTIONAL ----- 60 %

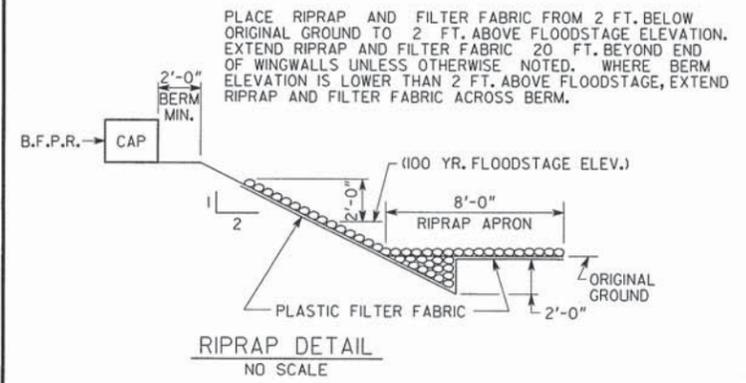
EXISTING UTILITIES

POWER LINE ON UPSTREAM SIDE OF EXISTING BRIDGE
 BURIED FIBER OPTIC CABLE DOWNSTREAM SIDE OF EXISTING BRIDGE

BERM ELEVATIONS	
END BENT	ELEVATIONS
1 LT & RT	332.04
4 LT & RT	331.67

NOTE: FOR BRIDGE ENDROLL STAKING PURPOSES ONLY.

BENT LOCATION	THEORETICAL SCOUR DEPTHS (FT)					
	100 YEAR STORM			500 YEAR STORM		
	GENERAL	LOCAL	TOTAL	GENERAL	LOCAL	TOTAL
BENT 2	15.9	1.3	17.2	22.5	1.5	24.0
BENT 3	15.9	1.8	17.7	22.5	2.0	24.5



RIPRAP DETAIL
NO SCALE

BRIDGE NO. 1

EXISTING BRIDGE SERIAL NO. 093-0027-0
 EXISTING BRIDGE I.D. NO. 093-00230D-015.70E
 P.I. NO. 0007173

PRELIMINARY LAYOUT
 PROJECT : CSBRG-0007-00(173)
 NAME : S.R. 230 OVER TURKEY CREEK
 DOOLY CO.

DRAWN BY : MJB
 DATE : JUNE 17, 2011
 SCALE : 1" = 10'-0"

PREPARED BY : MJB

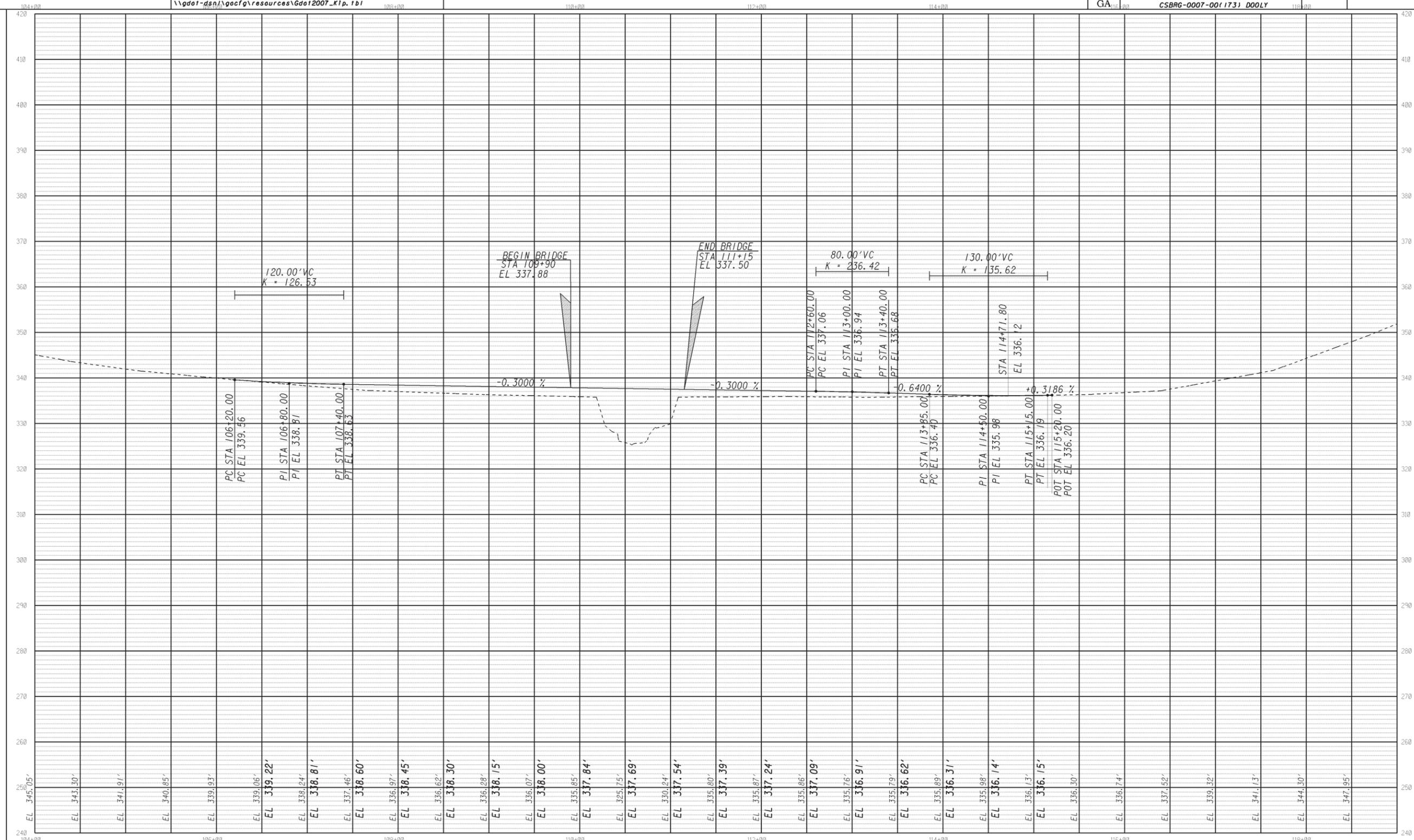
5/20/2011
jhoskins

Fr1 May 20 11:41:51 2011

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STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	CSBRG-0007-001(173) DOOLY	116	118



3/1/2007 GHEDE

REVISION	DATE	DESCRIPTION

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: DISTRICT 3
MAINLINE PROFILE

DRAWING No.
15-01