

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 0010409

OFFICE Design Policy & Support

Gordon County
GDOT District 6 - Cartersville
Bridge Replacement: US 41/SR 3 @
Lynn Creek

DATE 4/3/2015

FROM  for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED CONCEPT REPORT

Attached is the approved 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
Andrew Heath, 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: David Ray, District Design Engineer
DeWayne Comer, District Engineer
Tim Matthews, District Preconstruction Engineer
Kerry Gore, District Utilities Engineer
Kevin Bailey, Project Manager
BOARD MEMBER - 14th Congressional District

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

Project Type: <u>Bridge Replacement</u>	P.I. Number: <u>0010409</u>
GDOT District: <u>6</u>	County: <u>Gordon</u>
Federal Route Number: <u>41</u>	State Route Number: <u>3</u>
Project Number: _____	n/a

Bridge replacement on US 41 / SR 3 in Gordon County over Lynn Creek 5 miles south of Calhoun.

Submitted for approval:

<u>Dawdley - DL DESIGN</u>	<u>7/11/14</u>
GDOT Concept/Design Phase Office Head & Office	DATE
<u>Albert Shelby</u>	<u>7/24/14</u>
State Program Delivery Engineer	DATE
<u>Kim King</u>	<u>7/21/14</u>
GDOT Project Manager	DATE

Recommendation for approval:

Program Control Administrator	DATE
<u>HIRAL PATEL*/EKP</u>	<u>8/5/14</u>
State Environmental Administrator	DATE
State Traffic Engineer	DATE
<u>LISA MYERS*/EKP</u>	<u>7/29/14</u>
Project Review Engineer	DATE
<u>JUN BIRNKAMMER*/EKP</u>	<u>7/28/14</u>
State Utilities Engineer	DATE
<u>DEWAYNE COMER*/EKP</u>	<u>7/28/14</u>
District Engineer	DATE
<u>BEN ROBIN*/EKP</u>	<u>10/23/14</u>
State Bridge Design Engineer	DATE
State Transportation Financial Management Administrator	DATE

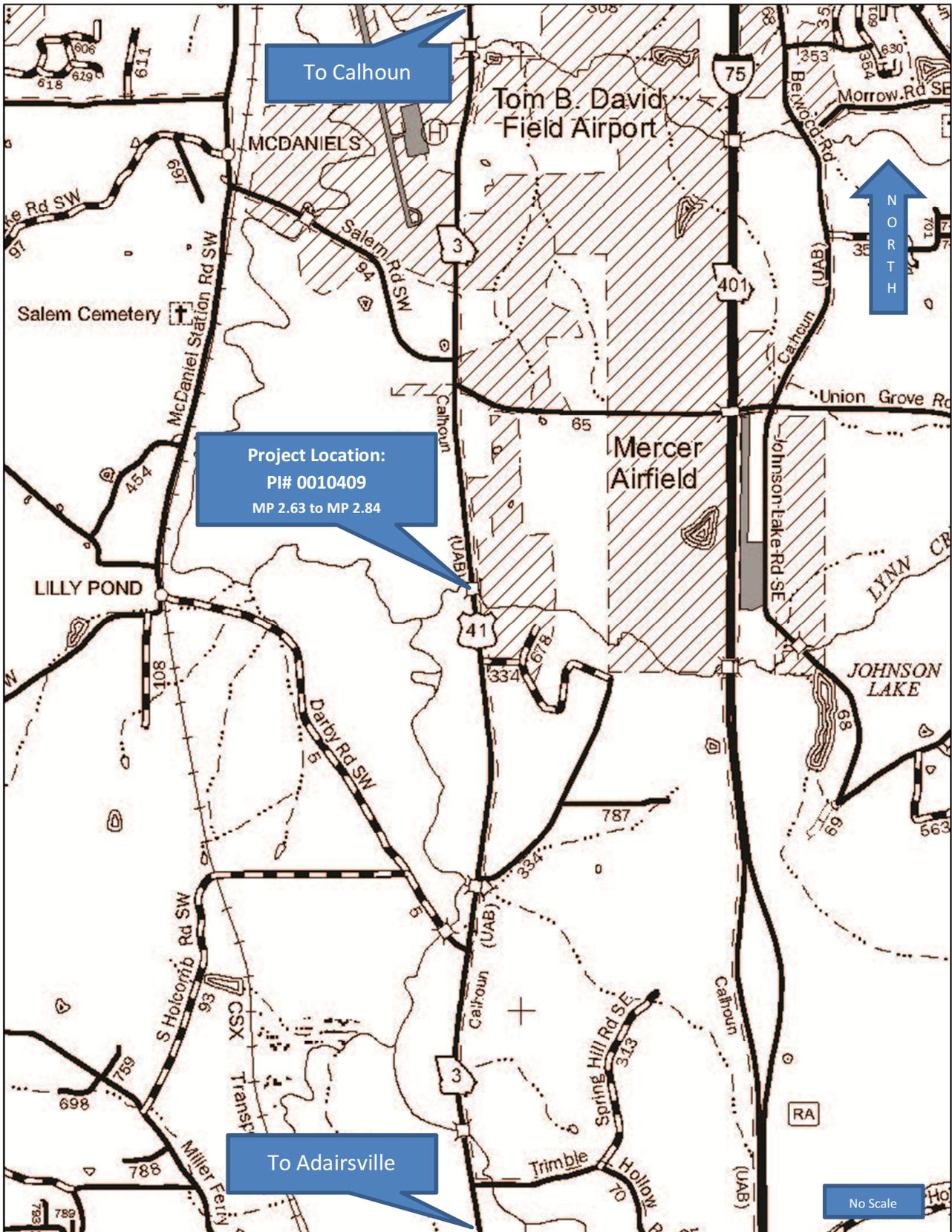
The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

<u>CINDY VANDUYKE*/EKP</u>	<u>7/30/14</u>
State Transportation Planning Administrator	DATE

** - RECOMMENDATION ON FILE*

County: Gordon

PROJECT LOCATION MAP



County: Gordon

PLANNING AND BACKGROUND

Project Justification Statement: This bridge (Structure ID 129-0003-0; SR 3 over Lynn Creek) was built in 1949. The bridge consists of five spans of reinforced concrete deck girders on concrete caps and concrete columns. This bridge was designed using a truck configuration that weighs less than the current state legal truck weights. The overall condition of this bridge would be classified as good to poor; with the deck in poor condition due to advanced deterioration, concrete cracking and spalling. The superstructure is showing some minor deterioration considered to be classified as satisfactory. The substructure elements are in good condition with some minor problems. Due to the structural integrity, based on the design and that the bridge deck is in poor condition, replacement of the bridge is recommended.

The Project Justification Statement was prepared by Kevin Schwartz, Regional Bridge Inspection Engineer - Bridge Maintenance Unit (BMU)

- **Explanation of the proposed project limits** – The limits of the project were determined by the use of the 2011 6th Edition of the Geometric Design of Highways and Streets and the Georgia DOT Design Policy Manual. A field inspection was done in 2013.
- **The issues the project is intended to address** – To eliminate the structural deficiencies and bring the bridge up to current state legal truck weights.
- **Performance goals** – Correct geometric and/or structural deficiencies.

Existing conditions: US 41 / SR 3 at this location is classified as a rural minor arterial. The existing typical section includes two 12-ft lanes with 2-ft paved shoulders. The existing bridge is 105-ft x 30-ft with a sufficiency rating of 39.98.

Other projects in the area:

- 0007896 I-75 from SR 140 to SR 156 **(MLD n/a)**
 - *Widening – Reconstruction/Rehabilitation*
- 610870- I-75 @ CR 65/Union Grove Rd & fm CS 825 to W of CR 68 Reloc **(under construction)**
 - *Interchange – New Construction*
- 621365- SR 3 from CR 65/Union Grove Rd to SR 53; Inc Bridge **(MLD n/a)**
 - *Widening – Add 4R(Med44) – Reconstruction/Rehabilitation*
- 662510- South Calhoun Bypass fm SR 53 @ CR 13 East to SR 53 @ CR 64 **(MLD 6/15/15)**
 - *Roadway Project – AN2/4R(Med44) – New Construction*

MPO: N/A - Project not in MPO

MPO Project ID: n/a

Regional Commission: Northwest Georgia RC

RC Project ID: n/a

Congressional District(s): 14

Federal Oversight: Full Oversight Exempt State Funded Other

County: Gordon

Projected Traffic: AADT

Current Year (2012): 7,400

Open Year (2018): 8,100

Design Year (2038): 12,000

Traffic Projections Performed by: GDOT Office of Planning

Functional Classification (Mainline): Rural Minor Arterial

Complete Streets - Bicycle, Pedestrian, and/or Transit Warrants:

Warrants met: None Bicycle Pedestrian Transit

US 41 / SR 3 in Gordon County is designated as part of State Bicycle Route 35 as per the Georgia Official Bicycle Map 2010.

Is this a 3R (Resurfacing, Restoration, & Rehabilitation) Project?

No Yes

Pavement Evaluation and Recommendations

Preliminary Pavement Evaluation Summary Report Required? No Yes

Preliminary Pavement Type Selection Report Required? No Yes

Feasible Pavement Alternatives: HMA PCC HMA & PCC

DESIGN AND STRUCTURAL

Description of the proposed project: This project is to replace the structurally deficient bridge on US 41 / SR 3 over Lynn Creek 5 miles south of Calhoun in Gordon County. The project is estimated to be approximately 1100 feet in total length.

Major Structures:

Structure	Existing	Proposed
129-0003-0	105-ft x 30-ft with two 12-ft lanes, 2-ft shoulders and 2-ft curb. Sufficiency Rating = 39.98	150-ft* x 40-ft with two 12-ft lanes and 8-ft shoulders. <i>*estimated length</i>

County: Gordon

Mainline Design Features: US 41 / SR 3 – Rural Minor Arterial

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2	2	2
- Lane Width(s)	12-ft	12-ft	12-ft
- Shoulder Width	2-ft paved/ 6-ft grassed	6.5-ft paved/ 3.5-ft grassed	6.5-ft paved/ 3.5-ft grassed
- Shoulder Slope	Varies	6%	6%
Posted Speed	55 mph		55 mph
Design Speed	55 mph	55 mph	55 mph
Min Horizontal Curve Radius	n/a	1060-ft	1060-ft
Maximum Superelevation Rate	n/a	6% to 8%	6%
Maximum Grade	n/a	5%	5%
Access Control	By Permit	By Permit	By Permit
Design Vehicle	n/a	WB-40	WB-40
Pavement Type	HMA	HMA	HMA

*According to current GDOT design policy if applicable

Major Interchanges/Intersections: n/a

Lighting required: No Yes

Off-site Detours Anticipated: No Undetermined Yes

An off-site detour will not be utilized for this project. The new bridge will be constructed parallel to the existing bridge and traffic will be maintained throughout construction.

Transportation Management Plan [TMP] Required: No Yes
 If Yes: Project classified as: Non-Significant Significant
 TMP Components Anticipated: TTC TO PI

Temporary Traffic Control shall be managed via Special Provision 150.

Design Exceptions to FHWA/AASHTO controlling criteria anticipated:

FHWA/AASHTO Controlling Criteria	No	Undetermined	Yes	Appvl Date (if applicable)
1. Design Speed	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Lane Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Shoulder Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Bridge Width	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Horizontal Alignment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Superelevation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Vertical Alignment	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Grade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Stopping Sight Distance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. Cross Slope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. Vertical Clearance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. Lateral Offset to Obstruction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. Bridge Structural Capacity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

County: Gordon

Design Variances to GDOT Standard Criteria anticipated:

GDOT Standard Criteria	Reviewing Office	No	Undeter-- mined	Yes	Appvl Date (if applicable)
1. Access Control/Median Openings	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. Intersection Sight Distance	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3. Intersection Skew Angle	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4. Lateral Offset to Obstruction	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5. Rumble Strips	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6. Safety Edge	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7. Median Usage	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8. Roundabout Illumination Levels	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9. Complete Streets	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10. ADA & PROWAG	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11. GDOT Construction Standards	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12. GDOT Drainage Manual	DP&S	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13. GDOT Bridge & Structural Manual	Bridges	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

VE Study anticipated: No Yes Completed – Date:

UTILITY AND PROPERTY

Temporary State Route needed: No Yes Undetermined

Railroad Involvement: n/a

Utility Involvements:

- Atlanta Gas Light – Natural Gas
- BellSouth Telecommunications – Telecommunications
- City of Calhoun – Water/Sewer
- Georgia Power - Distribution

SUE Required: No Yes Undetermined

Public Interest Determination Policy and Procedure recommended (Utilities)? No Yes

Right-of-Way (ROW): Existing width: 150-ft Proposed width: n/a

Required Right-of-Way anticipated: None Yes Undetermined
 Easements anticipated: None Temporary Permanent Utility Other

Anticipated total number of impacted parcels:	9
Displacements anticipated:	Businesses: 0
	Residences: 0
	Other: 0
Total Displacements:	0

Location and Design approval: Not Required Required

County: Gordon

CONTEXT SENSITIVE SOLUTIONS

Issues of Concern: Lynn Creek.

Context Sensitive Solutions Proposed: Proposed bridge should be designed to limit impacts to stream.

ENVIRONMENTAL & PERMITS

Anticipated Environmental Document:

GEPA: NEPA: CE EA/FONSI EIS

MS4 Permit Compliance – Is the project located in a MS4 area? No Yes

Environmental Permits/Variations/Commitments/Coordination anticipated:

Permit/ Variance/ Commitment/ Coordination Anticipated	No	Yes	Remarks
1. U.S. Coast Guard Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Forest Service/Corps Land	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3. CWA Section 404 Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4. Tennessee Valley Authority Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Buffer Variance	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. Coastal Zone Management Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7. NPDES	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8. FEMA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9. Cemetery Permit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
10. Other Permits	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Other Commitments	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Other Coordination	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

Is a PAR required? No Yes Completed – Date:

Environmental Comments and Information:

NEPA/GEPA: CE substantially complete. Cannot submit until we have agency concurrences.

Ecology: Ecological work is essentially complete. USFWS has indicated that a bat survey will **not** be required as no suitable habitat is available; although, they would like for us to inspect the bridge parapet for potential roosting bats. An Ecological AOE will be submitted by the end of August. Protected species surveys found no species present and recommended a ‘no effect’ finding for all listed state and federal species.

History: Two eligible historic resources, the McCulley House and US 41/SR 3, were identified within the APE of the project corridor during the field survey. A Historic Resource Survey Report (HRSR) was concurred on by SHPO on February 19, 2014. An Assessment of Effects document will be required to document the effects of the project to these resources. This document will include the determinations of the Archaeology report and will require SHPO concurrence.

Archeology: An archaeological site was identified during field work in June 2014. This site is being recommended as unknown eligibility; however, SHPO concurrence with this

County: Gordon

determination has not been received. A full Phase I Archaeology Report will be required for SHPO concurrence. The results of this report will also be included in the History Assessment of Effects.

Air: An Air Assessment was approved for the project on May 20, 2014. No CO model was required.

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

Noise Effects: To be completed.

Public Involvement: A PIOH meeting will be required.

Major stakeholders: Traveling public, adjacent property owners, businesses and utility owners.

CONSTRUCTION

Issues potentially affecting constructability/construction schedule: No issues anticipated.

Early Completion Incentives recommended for consideration: No Yes

COORDINATION, ACTIVITIES, RESPONSIBILITIES, AND COSTS

Initial Concept Meeting: n/a

Concept Meeting: May 8, 2014

Other coordination to date:

- PTIP / Scoping Meeting – July 12, 2012
- Environmental Consultant Kickoff Meeting – July 12, 2013

Project Activity	Party Responsible for Performing Task(s)
Concept Development	GDOT District 6 Design
Design	GDOT District 6 Design
Right-of-Way Acquisition	GDOT District 6 ROW
Utility Relocation	Utility Owners
Letting to Contract	GDOT
Construction Supervision	GDOT District 6 Construction
Providing Material Pits	Contractor
Providing Detours	Local Government
Environmental Studies, Documents, & Permits	GDOT
Environmental Mitigation	GDOT
Construction Inspection & Materials Testing	GDOT

County: Gordon

Project Cost Estimate Summary and Funding Responsibilities:

	Breakdown of PE	ROW	Reimbursable Utility	CST*	Environmental Mitigation	Total Cost
Funded By	GDOT	<i>GDOT</i> n/a	GDOT	GDOT	TBD	
\$ Amount	\$414,216.18	n/a	\$198,000.00	\$1,444,659.53	TBD	\$2,056,875.71
Date of Estimate	5/19/2011	n/a	9/30/2013	7/30/2014	TBD	

*CST Cost includes: Construction, Engineering and Inspection, and Liquid AC Cost Adjustment.

ALTERNATIVES DISCUSSION**Alternative selection:**

Preferred Alternative: <i>Replace bridge parallel to existing bridge utilizing staging/traffic control for tie-ins</i>			
Estimated Property Impacts:	9 (drive tie-ins only)	Estimated Total Cost:	\$2,056,875.71
Estimated ROW Cost:	\$0.00	Estimated CST Time:	18 months
Rationale: The Preferred Alternative was selected due to the additional cost of Proposed Right-of-Way.			

No-Build Alternative: <i>No-build</i>			
Estimated Property Impacts:	0	Estimated Total Cost:	\$0.00
Estimated ROW Cost:	\$0.00	Estimated CST Time:	0 months
Rationale: Due to the structural integrity, based on the design and that the bridge deck is in poor condition, replacement of the bridge is recommended.			

Alternative 1: <i>Replace bridge in same location utilizing off-site detour</i>			
Estimated Property Impacts:	11	Estimated Total Cost:	\$3,231,875.31
Estimated ROW Cost:	\$1,175,000.00	Estimated CST Time:	18 months
Rationale: Alternative 1 was not selected due to the additional cost of Proposed Right-of-Way and to minimize disruptions to the traveling public if an off-site detour was utilized.			

Comments: None**LIST OF ATTACHMENTS/SUPPORTING DATA**

1. Concept Layout
2. Typical sections
3. Detailed Cost Estimates:
 - a. Construction including Engineering and Inspection, Contingency
 - b. Completed Fuel & Asphalt Price Adjustment forms
 - c. Utilities
4. Traffic Data
5. SI & A Report

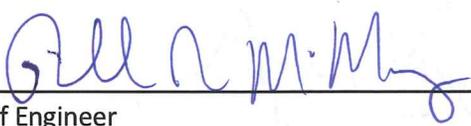
County: Gordon

6. Environmental Kickoff Meeting Minutes
7. Concept Team Meeting Minutes & Notes

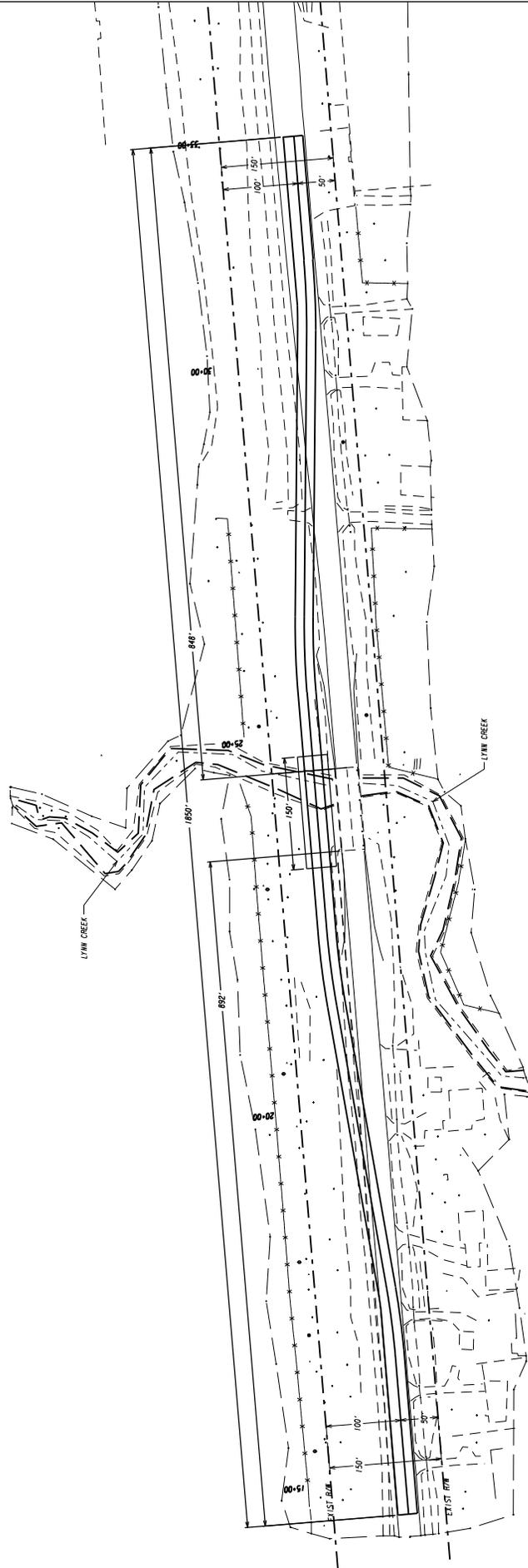
County: Gordon

APPROVALS

Concur: 
Director of Engineering

Approve: 
Chief Engineer

11/5/14
Date



**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. < 0010409 >

OFFICE District 6

PROJECT DESCRIPTION

Bridge replacement on SR 3 @ Lynn Creek 5 miles south of Calhoun

DATE July 30, 2014

From: Curtis D. Comer, P.E., District Engineer

To: Lisa L. Myers, State Project Review Engineer

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Kevin Bailey

MGMT LET DATE 7/15/2016

MGMT ROW DATE 5/15/2015

PROGRAMMED COSTS (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$ 640,000.00

DATE 5/19/2011

RIGHT OF WAY \$ 100,000.00

DATE 5/19/2011

UTILITIES \$ 198,000.00

DATE 10/4/2013

REVISED COST ESTIMATES

CONSTRUCTION* \$ 1,444,659.53

RIGHT OF WAY \$ ~~1,175,000.00~~ EKP

UTILITIES \$ 198,000.00

*Cost Contains 15 % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

Concept estimate.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$	1,176,837.72	Base Estimate From CES
B. ENGINEERING AND INSPECTION (E & I):	\$	58,841.89	Base Estimate (A) x 5 %
C. CONTINGENCY:	\$	185,351.94	Base Estimate (A) + E & I (B) x 15 % See % Table in "Risk Based Cost Estimation" Memo
D. TOTAL LIQUID AC ADJUSTMENT:	\$	23,627.98	Total From Liquid AC Spreadsheet
E. CONSTRUCTION TOTAL:	\$	1,444,659.53	(A + B + C + D = E)

REIMBURSABLE UTILITY COSTS

UTILITY OWNER	REIMBURSABLE COST
Georgia Power - Distribution	\$ 198,000.00
TOTAL	\$ 198,000.00

ATTACHMENTS:

Detailed Cost Estimate Printout From TRAQS Liquid AC Adjustment Spreadsheet
--

PROJ. NO. n/a
P.I. NO. 0010409
DATE 7/30/2014

CALL NO. 9/29/2009

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Jul-14	\$ 3.589
DIESEL		\$ 3.867
LIQUID AC		\$ 596.00

Link to Fuel and AC Index:
<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

LIQUID AC ADJUSTMENTS

$PA = \frac{APM - APL}{APL} \times TMT \times APL$

Asphalt

Price Adjustment (PA)					23244	\$	23,244.00
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	953.60			
Monthly Asphalt Cement Price month project let (APL)			\$	596.00			
Total Monthly Tonnage of asphalt cement (TMT)					65		

ASPHALT	Tons	%AC	AC ton
Leveling	0	5.0%	0
12.5 OGFC	0	5.0%	0
12.5 mm	300	5.0%	15
9.5 mm SP	0	5.0%	0
25 mm SP	650	5.0%	32.5
19 mm SP	350	5.0%	17.5
	1300		65

BITUMINOUS TACK COAT

Price Adjustment (PA)					\$	383.98	\$	383.98
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	953.60				
Monthly Asphalt Cement Price month project let (APL)			\$	596.00				
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%	\$	953.60				
Monthly Asphalt Cement Price month project let (APL)			\$	596.00				
Total Monthly Tonnage of asphalt cement (TMT)					0			

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.	0	0.20	0	232.8234	0
Double Surf. Trmt.	0	0.44	0	232.8234	0
Triple Surf. Trmt	0	0.71	0	232.8234	0
					0

TOTAL LIQUID AC ADJUSTMENT \$ 23,627.98

DETAILED COST ESTIMATE



Job: 0010409CR

JOB NUMBER 0010409CR

FED/STATE PROJECT NUMBER 0010409

SPEC YEAR: 13

DESCRIPTION: BRIDGE REPLACEMENT

SR 3 @ LYNN CREEK (CONCEPT COST ESTIMATE)

ITEMS FOR JOB 0010409CR

01 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$75,000.00000	TRAFFIC CONTROL - 0010409 GORDON	\$75,000.00
0010	210-0100	1.000	LS	\$150,000.00000	GRADING COMPLETE - 0010409 GORDON	\$150,000.00
0015	310-1101	2100.000	TN	\$21.12822	GR AGGR BASE CRS, INCL MATL	\$44,369.26
0020	402-3121	650.000	TN	\$84.29415	RECYL AC 25MM SP,GP1/2,BM&HL	\$54,791.20
0025	402-3130	300.000	TN	\$109.98456	RECYL AC 12.5MM SP,GP2,BM&HL	\$32,995.37
0030	402-3190	350.000	TN	\$89.31845	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$31,261.46
0035	413-1000	250.000	GL	\$4.01626	BITUM TACK COAT	\$1,004.07
0040	432-5010	3200.000	SY	\$4.58162	MILL ASPH CONC PVMT,VARB DEPTH	\$14,661.18
0045	550-1180	100.000	LF	\$47.10368	STM DR PIPE 18,H 1-10	\$4,710.37
0050	550-3318	2.000	EA	\$693.52909	SAFETY END SECTION 18,STD,4:1	\$1,387.06
0055	550-3518	2.000	EA	\$637.66847	SAFETY END SECTION 18,STD,6:1	\$1,275.34
0058	641-1100	58.000	LF	\$61.64908	GUARDRAIL, TP T	\$3,575.65
0059	641-1200	850.000	LF	\$19.71181	GUARDRAIL, TP W	\$16,755.04
0060	641-5001	2.000	EA	\$677.55316	GUARDRAIL ANCHORAGE, TP 1	\$1,355.11
0064	641-5012	2.000	EA	\$1,919.25153	GUARDRAIL ANCHORAGE, TP 12	\$3,838.50
SUBTOTAL FOR ROADWAY:						\$436,979.61

02 - SIGNING & MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0065	636-1033	31.000	SF	\$19.23242	HWY SIGNS, TP1MAT,REFL SH TP 9	\$596.21
0070	636-2070	56.000	LF	\$9.26241	GALV STEEL POSTS, TP 7	\$518.69
0075	653-1501	2000.000	LF	\$0.71046	THERMO SOLID TRAF ST 5 IN, WHI	\$1,420.92
0080	653-1502	1400.000	LF	\$0.60426	THERMO SOLID TRAF ST, 5 IN YEL	\$845.96
0085	653-6006	100.000	SY	\$4.37121	THERM TRAF STRIPING, YELLOW	\$437.12
0090	654-1001	40.000	EA	\$5.50465	RAISED PVMT MARKERS TP 1	\$220.19
0095	654-1003	50.000	EA	\$3.81798	RAISED PVMT MARKERS TP 3	\$190.90
0100	657-1085	300.000	LF	\$7.92404	PRF PL SD PVT MKG,8,B/W,TP PB	\$2,377.21
0105	657-6085	300.000	LF	\$7.87469	PRF PL SD PVMT MKG,8,B/Y,TPPB	\$2,362.41
SUBTOTAL FOR SIGNING & MARKING:						\$8,969.61

DETAILED COST ESTIMATE



Job: 0010409CR

03 - TEMPORARY EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0110	163-0240	2.000	TN	\$200.12532	MULCH	\$400.25
0115	163-0527	20.000	EA	\$246.72893	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$4,934.58
0120	163-0529	600.000	LF	\$3.74386	CNST/REM TEMP SED BAR OR BLD STRW CK DM	\$2,246.32
0125	165-0030	1500.000	LF	\$0.99709	MAINT OF TEMP SILT FENCE, TP C	\$1,495.64
0130	165-0071	300.000	LF	\$1.00880	MAINT OF SEDIMENT BARRIER - BALED STRAW	\$302.64
0135	171-0030	3000.000	LF	\$3.24925	TEMPORARY SILT FENCE, TYPE C	\$9,747.75
0140	603-2182	100.000	SY	\$56.32822	STN DUMPED RIP RAP, TP 3, 24	\$5,632.82
0145	603-7000	100.000	SY	\$3.60674	PLASTIC FILTER FABRIC	\$360.67
0150	716-2000	12000.000	SY	\$1.15880	EROSION CONTROL MATS, SLOPES	\$13,905.60
SUBTOTAL FOR TEMPORARY EROSION CONTROL:						\$39,026.27

04 - PERMANENT EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0155	700-6910	2.000	AC	\$1,112.68976	PERMANENT GRASSING	\$2,225.38
0160	700-7000	7.000	TN	\$94.50609	AGRICULTURAL LIME	\$661.54
0165	700-8000	7.000	TN	\$525.15580	FERTILIZER MIXED GRADE	\$3,676.09
0170	700-8100	130.000	LB	\$2.30170	FERTILIZER NITROGEN CONTENT	\$299.22
SUBTOTAL FOR PERMANENT EROSION CONTROL:						\$6,862.23

05 - BRIDGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0185	540-1102	1.000	LS	\$85,000.00000	REM OF EX BR, BR NO - 1	\$85,000.00
0190	543-9000	1.000	LS	\$600,000.00000	CONSTR OF BRIDGE COMPLETE - 1	\$600,000.00
SUBTOTAL FOR BRIDGE:						\$685,000.00

TOTALS FOR JOB 0010409CR

ITEMS COST:	\$1,176,837.72
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$1,176,837.72
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$1,176,837.72

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE: Gordon Co.
P.I. No. 0010409
SR 3 @ Lynn Creek 5 mile south of Calhoun

OFFICE: Cartersville

DATE: September 30, 2013

FROM:  Kerry D. Bonner, District Utilities Engineer

TO: Office of Program Delivery
ATTN: Kevin Bailey

SUBJECT: CONCEPT UTILITY COST ESTIMATE

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

FACILITY OWNER	NON- REIMBURSABLE	REIMBURSABLE
Atlanta Gas Light	? 50,000.00	
Bellsouth Telecommunications	\$ 50,000.00	
City of Calhoun – Water/Sewer	\$ 120,000.00	
GA Power – Dist.		\$ 198,000.00
<hr/>		
Totals	\$ 220,000.00	\$ 198,000.00

Total Updated Utility Cost Estimate: \$418,000.00

* The reimbursable amount could increase to \$ 318,000.00 if City of Calhoun Water/Sewer was to apply for utility assistance for the relocation of their facilities.

If you have any questions, please contact Stanley McCarley at 678-721-5324.

KDB/sm

C: Mike Bolden, State Utilities Engineer
Angie Robinson, Office of Financial Management
File/Estimating Book

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE Gordon County **OFFICE** Planning
P.I. # 0010409
DATE January 16, 2014

FROM Cynthia L. VanDyke, State Transportation Planning Administrator

TO Genetha Rice-Singleton, State Program Delivery Engineer
Attention: Kevin Matthew Bailey

SUBJECT **Estimated Traffic Assignments** for SR 3 @ LYNN CREEK 5 MI S OF CALHOUN.

We are furnishing estimated traffic assignments for the above project as follows:

TC # 0114

	Build	No Build
2012 AADT	7400	NA
2018 AADT	8100	8100
2038 AADT	12000	12000
2012 DHV	630	630
2018 DHV	690	690
2038 DHV	1020	1020
D	60%	60%
K	8.50%	8.50%
T	7.00%	7.00%
S.U.	4.75%	4.75%
COMB.	2.25%	2.25%
24 HR. T.	12.50%	12.50%
S.U.	8.00%	8.00%
COMB.	4.50%	4.50%

If you have any questions concerning this information please contact Abby Ebodaghe at (404) 631-1923.

CLV/AFE



Bridge Inventory Data Listing

Parameters: Bridge Serial Num

Structure ID: 129-0003-0

Gordon

SUFF. RATING: 39.98

Location & Geography

Structure ID:	129-0003-0	*104 Highway System:	0	Signs & Attachments	
200 Bridge Information:	06	*26 Functional Classification:	06	225 Expansion Joint Type:	02
*6A Feature Int:	LYNN CREEK	*204 Federal Route Type:	F No: 00015	242 Deck Drains:	1
*6B Critical Bridge:	0	105 Federal Lands Highway:	0	243 Parapet Location:	0
*7A Route No Carried:	SR000003	*110 Truck Route:	0	Height:	0.00
*7B Facility Carried:	US 41/ SR 3	206 School Bus Route:	1	Width:	0.00
9 Location:	5 MI S OF CALHOUN	217 Benchmark Elevation:	0000.00	238 Curb Height:	1
2 Dot District:	6	218 Datum:	0	Curb Material:	1
207 Year Photo:	2013	*19 Bypass Length:	05	239 Handrail:	1 1
*91 Inspection Frequency:	24 Date: 07/17/2013	*20 Toll:	3	*240 Median Barrier Rail:	0
92A Fract Crit Insp Freq:	0 Date: 02/01/1901	*21 Maintenance:	01	241 Bridge Median Height:	0
92B Underwater Insp Freq:	0 Date: 02/01/1901	*22 Owner:	01	* Bridge Median Width:	0
92C Other Spc. Insp Freq:	0 Date: 02/01/1901	*31 Design Load:	5	230 Guardrail Loc. Dir. Rear:	3
*4 Place Code:	00000	37 Historical Significance:	5	Fwd:	3
*5 Inventory Route(O/U):	1	205 Congressional District:	11	Oppo. Dir. Rear:	0
Type:	2	27 Year Constructed:	1949	Oppo. Fwd:	0
Designation:	1	106 Year Reconstructed:	0000	244 Approach Slab:	3
Number:	00041	33 Bridge Median:	0	224 Retaining Wall:	0
Direction:	0	34 Skew:	00	233 Posted Speed Limit:	55
*16 Latitude:	34 - 26.0392 HMMS Prefix:SR	35 Structure Flared:	0	236 Warning Sign:	0.00
*17 Longitude:	84 - 56.0955 HMMS Suffix:00	38 Navigation Control:	0	234 Delineator:	1.00
98 Border Bridge:	MP: 2.50	213 Special Steel Design:	0	235 Hazard Boards:	1
99 ID Number:	000 % Shared:00	267 Type of Paint:	0	237 Utilities Gas:	00
*100 STRAHNET:	0000000000000000	*42 Type of Service On:	1	Water:	00
12 Base Highway Network:	0	Type of Service Under:	5	Electric:	00
13A LRS Inventory Route:	1	214 Movable Bridge:	0	Telephone:	00
13B Sub Inventory Route:	1291000300	203 Type Bridge:	A - O - O - O	Sewer:	00
*101 Parallel Structure:	0	259 Pile Encasement:	3	247 Lighting Street:	0
*102 Direction of Traffic:	N	*43 Structure Type Main:	1 04	Navigation:	0
*264 Road Inventory Mile Post:	2	45 No.Spans Main:	005	Aerial:	0
*208 Inspection Area:	002.43	44 Structure Type Appr:	0 00	*248 County Continuity No.:	16
Engineer's Initials:	06 Initials: HWB	46 No Spans Appr:	0000		
* Location ID No:	jpd	226 Bridge Curve Horz	0 Vert: 0.00		
	129-00003D-002.50N	111 Pier Protection:	0		
		107 Deck Structure Type:	1		
		108 Wearing Structure Type:	6		
		Membrane Type:	0		
		Deck Protection:	8		



Bridge Inventory Data Listing

Processed Date: 3/26/2014

Parameters: Bridge Serial Num

Structure ID: 129-0003-0

Programming Data

F-426 (2)
 201 Project No: 1
 202 Plans Available: 0010409
 249 Prop Proj No: 0000
 250 Approval Status: 0010409
 251 PI Number: 02/01/1901
 252 Contract Date: 00008
 260 Seismic No: 34 1
 75 Type Work: \$410
 94 Bridge Imp. Cost: \$41
 95 Roadway Imp. Cost: \$615
 96 Total Imp Cost: 000316
 76 Imp Length: 2013
 97 Imp Year: 011070 Year: 2032

Hydraulic Data

215 Waterway Data:
 High Water Elev: 0000.0 Year: 1900
 Flood Elev: 0000.0 Freq: 00
 Avg Streambed Elev: 0000.0
 Drainage Area: 00000
 Area of Opening: 000000
 113 Scour Critical U
 216 Water Depth: 03.2 Br. Height: 08.5
 222 Slope Protection: 6
 221 Spur Dikes Rear 0 Fwd: 0
 219 Fender System 0
 220 Dolphin: 0
 223 Culvert Cover: 000

Measurements:

*29 ADT 007380 Year: 2012
 109 % Trucks: 12
 * 28 Lanes On: 02 Under: 00
 210 No. Tracks On: 00 Under: 00
 * 48 Max. Span Length 0021
 * 49 Structure Length: 105
 51 Br. Rwdy. Width 29.80
 52 Deck Width: 36.20
 * 47 Tot. Horiz. Cl: 30
 50 Curb / Sidewalk Width 2.00 / 2.00
 32 Approach Rdwy. Width 028
 *229 Shoulder Width:
 Rear Lt: 2.00 Type: 2 Rt: 2.00
 Fwd. Lt: 2.00 Type: 2 Rt: 2.00

Pavement Width:

Rear: 24.00 Type: 2
 24.00 Type: 2
 Intersection Rear: 0 Fwd: 0

36 Safety Features Br. Rail:

Transition: 2
 App. G. Rail: 1
 App. Rail End: 1
 53 Minimum Cl. Over: 99' 99" *
 Under: N 00' 00" *
 *228 Minimum Vertical Cl

Act. Odm Dir: 99' 99"

Oppo. Dir: 99' 99"
 Posted Odm. Dir: 00' 00"
 Oppo. Dir: 00' 00"
 55 Lateral Undercl. Rt: N 0.00
 56 Lateral Undercl. Lt: 0.00
 *10 Max Min Vert Cl: 99' 99" Dir: 0
 39 Nav Vert Cl: 000 Horiz: 0000
 116 Nav Vert Cl Closed: 000
 245 Deck Thickness Main 6.50
 Deck Thick Approach: 0.00
 246 Overlay Thickness: 2.00

212 Year Last Painted: Sup: 0000 Sub: 0000

65 Inventory Rating Method: 1
 63 Operating Rating Method: 1
 66 Inventory Type: 2 Rating: 15
 64 Operating Type: 2 Rating: 25
 231 Calculated Loads:
 H-Modified: 21 0
 HS-Modified: 30 0
 Type 3: 27 0
 Type 3s2: 40 0
 Timber: 34 0
 Piggyback: 40 0
 261 H Inventory Rating: 15
 262 H Operating Rating: 25
 67 Structural Evaluation: 2
 58 Deck Condition: 4
 59 Superstructure Condition: 6
 * 227 Collision Damage: 0
 60A Substructure Condition: 7
 60B Scour Condition: 7
 60C Underwater Condition: N
 71 Waterway Adequacy: 9
 61 Channel Protection Cond.: 7
 68 Deck Geometry: 2
 69 UnderClr. Horz/Vert: N
 72 Appr. Alignment: 8
 62 Culvert: N
Posting Data
 70 Bridge Posting Required: 5
 41 Struct Open, Posted, CL: A
 * 103 Temporary Structure: 0
 232 Posted Loads
 H-Modified: 00
 HS-Modified: 00
 Type 3: 00
 Type 3s2: 00
 Timber: 00
 Piggyback: 00
 253 Notification Date: 02/01/1901
 258 Fed Notify Date: 02/01/1901



Meeting Minutes

Date & Time: July 12, 2013, 1:00pm

Place: GDOT General Office, 25CR 2L2

Attendees:

Kevin Bailey	GDOT Program Delivery
Ben Clopper	ICA Engineering
Ben Buchan	ICA Engineering

Subject: PI No. 0010409 & 0010410
Bridge Replacements – Gordon County
Consultant Kickoff

Discussions:

1. Kevin Bailey indicated that the survey for both projects was underway and was scheduled for completion in late October.
2. Kevin Bailey stated that the project designer is David Ray (District 6 770-387-3622) and the NEPA contact is Michael Murdock (404-631-1178).
3. The project is currently a little behind schedule, but Kevin hopes to recover this.
4. Traffic projections are complete for one project and in development for the other. Kevin will send these to ICA when they are both ready.
5. Kevin provided Preconstruction Status Reports for both projects to ICA. Kevin will provide full Artemis schedules via email.
6. Kevin will investigate whether GDOT did any aerial photography for this project and if it can be made available to F&H.
7. Kevin indicated that at this point no decision has been made regarding an offsite detour for either project. Ben Clopper requested that ICA be kept in the loop when this decision is made.
8. Ben Clopper requested Bridge Inventory Reports. Ben Buchan indicated these were probably available online. [Note: these have been located]
9. Kevin indicated a Project Justification is available for each project. Ben Clopper requested that this be sent to ICA.
10. Ben Clopper indicated that ICA would like to have concept level plans before beginning field work so that the required extents of the field survey are known. Kevin will provide this to ICA when it is available

11. Kevin asked about overall environmental schedule, Ben Clopper indicated this would be developed by Wayne Hall based on the provide PreCon Status Reports.
12. Kevin verified that ICA is familiar with the CMIS invoicing process. Ben Clopper indicated they were.
13. Kevin asked that he be copied on correspondence between ICA and other GDOT departments and outside agencies.

Action Items:

1. Kevin Bailey will provide to ICA:
 - a. Traffic Projections (when complete)
 - b. Full Artemis schedule
 - c. Aerial Photography (if available)
 - d. Concept Layout (when available)
 - e. Project Justification
2. Wayne Hall will provide:
 - a. Environmental schedule

The meeting concluded approximately 1:30

Meeting Minutes

BY: Kevin Bailey

SUBJECT: PI#0010409 Concept Team Meeting

DATE: May 8, 2014 District 6 Conference Room

GENERAL TOPICS

- Kevin Bailey, Project Manager (PM) opened the meeting at 10:00am and introduced himself and asked that everyone introduce themselves.
- PM read aloud the draft concept report page by page and welcomed comments and questions during the process.
- Michael Haithcock stated that the detour route is very important and inquired to the kind of detour being implemented. Also recommended that an alternate detour be mentioned in the concept report just in case I-75 is shut down for some unknown reason.
- David Ray (Design): Confirmed that an off-site detour with I-75 would be used. Detour meeting will be held with Locals at the proper time.
- Mick Workman (ROW): Stated that he saw no improvements to be noted. If signs or billboards are present, please note on plans.
- Katrina Anderson (ROW): Stated that she saw no impacts and recommended 12 months from ROW Authorization to Mgmt Let. Questioned the preliminary ROW cost estimates in that it was fairly high compared to the existing properties within the project area.
- Utility Owners: Appears from the layout that the utilities are overhead and on the side of the bridge. Preliminary set of plans are requested.
- Steven Lively (Dist CST): Recommends full depth replacement and 18 months construction time.
- Lyn Clements (Bridge): No comments.
- Barry Hice (Gordon County Rep): Recommends presenting project concept to Board. PM and Mr. Haithcock will attend a meeting once the concept report is approved.
- PM then asked if anyone had any further questions and thanked everyone for coming.
- The meeting adjourned at 10:40 AM.

Bailey, Kevin

From: Phillips, Kim
Sent: Thursday, April 17, 2014 3:30 PM
To: Bailey, Kevin
Cc: Peters, Dave
Subject: 2014-04-17_Comments for PI#0010409 Draft CTM document

Follow Up Flag: Follow up
Flag Status: Flagged

I am providing the following comments for your use in developing the concept for PI# 0010409:

- Please be sure the submitting team signatures are included with the submission of the concept report.
- Please remove any instructions and fill out the template information as completely as possible.
- At least reference a city somewhere on the location map.
- Is there a scale?
- The information on the 2nd location map is extremely sparse to the point the benefit of including it is questioned.
- The second map could almost be an inset for the first rather than use an additional page. Better maps can be obtained with aerial info.
- Public meeting would be need for an offsite detour/bridge close.
- ROW would need approval.
- Row summary is needed, but not the worksheets; please remove them.
- There is no begin or end project shown on the layout page.
- A detour map is recommend and any associated pay items.
- The pictures may not be needed or relevant to the concept report.

Kim Phillips
Lead Design Engineer
Design Policy & Support
OGC 26th Floor
404-631-1775

Georgia DOT commits \$7 million per year to an Off-System Safety Improvement Program designed to reduce fatalities and serious injuries on rural roads owned and maintained by local governments throughout Georgia. Thus far in FY2014, GDOT has administered approximately \$6.5 million of federal funds for local assistance in 78 counties. Visit us at <http://www.dot.ga.gov> (Local Government link) or follow us on <http://www.facebook.com/GeorgiaDOT> and <http://twitter.com/gadepoftrans>.

MEETING SIGN-IN SHEET

Project: PI#0010409 CTM	Meeting Date: May 8, 2014
Facilitator: Kevin Bailey	Place/Room: District 6 Conference Room

Name	Company	Phone	E-Mail
Kevin Bailey	GDOT- Project Manager	678.580.8820	kebailey@dot.ga.gov
Bryant Loft	No. Calhoun	537	bloft@ "
Barry Hice	GORDON COUNTY		bhice@gordoncounty.org
Kyle Ellis	CITY of CALHOUN		kellis@CALNET-GA.NET
Kevin King	City of Calhoun	706-602-6111	kking@calnet-ga.net
TYLER LUMSDEN	GDOT-ENGR SERV	770-630-2588	tlumsden@dot.ga.gov
Julie Douglas	GDOT-Design	678-721-5266	jdouglas@dot.ga.gov
Chera Marsh	GDOT- DPPE	678-721-5257	cmarsch@dot.ga.gov
Brett Dixon	GDOT- R/W	678-721-5304	bdixon@dot.ga.gov
Mick Workman	GDOT- D6 R/W	678-721-5302	mworkman@dot.ga.gov
DAVID RAY	GDOT D6 DESIGN	678-721-5256	dray@dot.ga.gov
STEPHEN LIVERY	GDOT- D6	770-357-3899	
Jon Jeffries	Georgia Power Co.	706-232-8861	JJeffrie@southernco.com
Katrina Anderson	GDOT- ROW	404-347-0197	kanderson@dot.ga.gov
Lyn Clements	GDOT- Bridge	404-631-1849 770-481-3211	lclements@dot.ga.gov
Michael Halthrock	GDOT-D6 Preconst Engr		