

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

Project Type: <u>Bridge Replacement</u>	P.I. Number: <u>333176</u>
GDOT District: <u>3</u>	County: <u>Coweta</u>
Federal Route Number: <u>N/A</u>	State Route Number: <u>74</u>
Project Number: <u>BRST0-0074-02(042)</u>	

Addition of multi-use trail to the Project in lieu of traditional sidewalk

Submitted for approval:

<u><i>Joseph Dica - D2 Design</i></u>	<u>9/1/15</u>
Consultant Designer & Firm or GDOT Concept/Design Phase Office Head & Office	Date
<u>Albert Shelby</u> <i>8/16</i>	<u>9/10/15</u>
State Program Delivery Engineer	Date
<u><i>A. Compey</i></u> <i>KE80</i>	<u>9/3/15</u>
GDOT Project Manager	Date

*** Updated post office head review for management comments**

- ★ Recommendations on File
- Recommendation for approval:
- ★ Hiral Patel/KLP 2/23/2015
State Environmental Administrator Date
- ★ Andrew Heath/KLP 2/16/2015
State Traffic Engineer Date
- ★ Ben Rabun/KLP 2/17/2015
State Bridge Engineer Date

- MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).
- Rural Area: 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).

★ Cynthia VanDyke/KLP 2/13/2015
State Transportation Planning Administrator Date

County: Coweta

PLANNING, APPROVED CONCEPT, AND BACKGROUND

Project Justification Statement: This bridge on SR 74 over Norfolk Southern Railroad, Structure ID 077-0028-0, was constructed in 1950. The bridge consists of three spans of steel girders on concrete caps and columns. This bridge was designed using an H-15 vehicle, which is below the current design standards. The overall condition of this bridge would be classified as good. The deck is in good condition with some minor concrete cracking. The superstructure is in good condition with some minor problems noted. The substructure is considered to be in good condition with some minor concrete cracking. Due to the structural integrity of the bridge, replacement is recommended.

Existing conditions: Existing conditions include a bridge over Norfolk Southern Railroad, two travel lanes (one each direction), minimal sidewalk and curb & gutter, minor drainage structures, and commercial driveways

Description of the approved concept: The project is located 0.81 miles Southeast of Senoia, GA in Coweta County. The Project will include a typical urban section consisting of two-twelve foot travel lanes with two foot-six inch curb & Gutter and five foot sidewalk. The speed limit will also be reduced to 45 M.P.H.

Federal Oversight: PoDI Exempt State Funded Other

Projected Traffic as shown in the approved Concept Report: AADT
 Open Year (2006): 12,600 Design Year (2026): 20,700

Updated Traffic: AADT 24 HR T: 7.5 %
 Open Year (2018): 12,200 Design Year (2038): 20,000

Functional Classification (Mainline): Rural Minor Arterial

VE Study anticipated: No Yes Completed – Date:

PROPOSED REVISIONS

Approved Features:	Proposed Features:
<ul style="list-style-type: none"> • Typical Section <ul style="list-style-type: none"> • 2-12' Lanes • 2'6" Curb & Gutter • 5' Sidewalk • Design Speed – 45 MPH • ROW width 130' to 175' 	<ul style="list-style-type: none"> • Typical Section <ul style="list-style-type: none"> • 2-12' Lanes • 2'6" Curb & Gutter • 10' multi-use trail to the West • 5' sidewalk to the East • Approximate 52' wide bridge • Design Speed – 45 MPH • ROW width 75' to 275'
<p>Reason(s) for change: The trail is part of the City of Senoia's Parks and Recreation Master Plan (see attached correspondence between GDOT and City of Senoia). An over-width bridge will be utilized to accommodate staging.</p>	

Design Variances and/or Exceptions needed: None

ENVIRONMENTAL AND PERMITS

Potential environmental impacts of proposed revision: Addition of a multi-use trail will increase the overall Project footprint, potentially impacting the railroad corridor.

Have proposed revisions been reviewed by environmental staff? No Yes

Environmental responsibilities (Studies/Documents/Permits): GDOT-OES

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:

History: The railroad corridor is classified as historic; with an increase in Project footprint due to trail addition, there may be impacts to historic boundaries.

01-15-17 *125048 + [unclear]*

PROJECT COST AND ADDITIONAL INFORMATION

Item	Estimated Cost	Date of Estimate	Funded By
Base Construction Cost:	\$ 3,016,752.91	8/19/2015	
Engineering and Inspection:	\$ 150,837.65	8/19/2015	
Contingencies:	\$ 475,138.58	8/19/2015	
Liquid AC Adjustment:	\$ 78,655.59	8/19/2015	
<u>Total Construction Cost:</u>	<u>\$ 3,721,384.73</u>		
Right-of-Way:	\$1,396,000.00	7/27/2015	
Utilities* (reimbursable costs):	\$156,400.00	12/15/2014	
Environmental Mitigation**:	TBD		
TOTAL PROJECT COST:	\$5,273,784.73		

*Note: Utilities cost includes Norfolk Southern RR

**Note: OES is not able to provide mitigation estimate at time of report.

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

Comments:

Attachments:

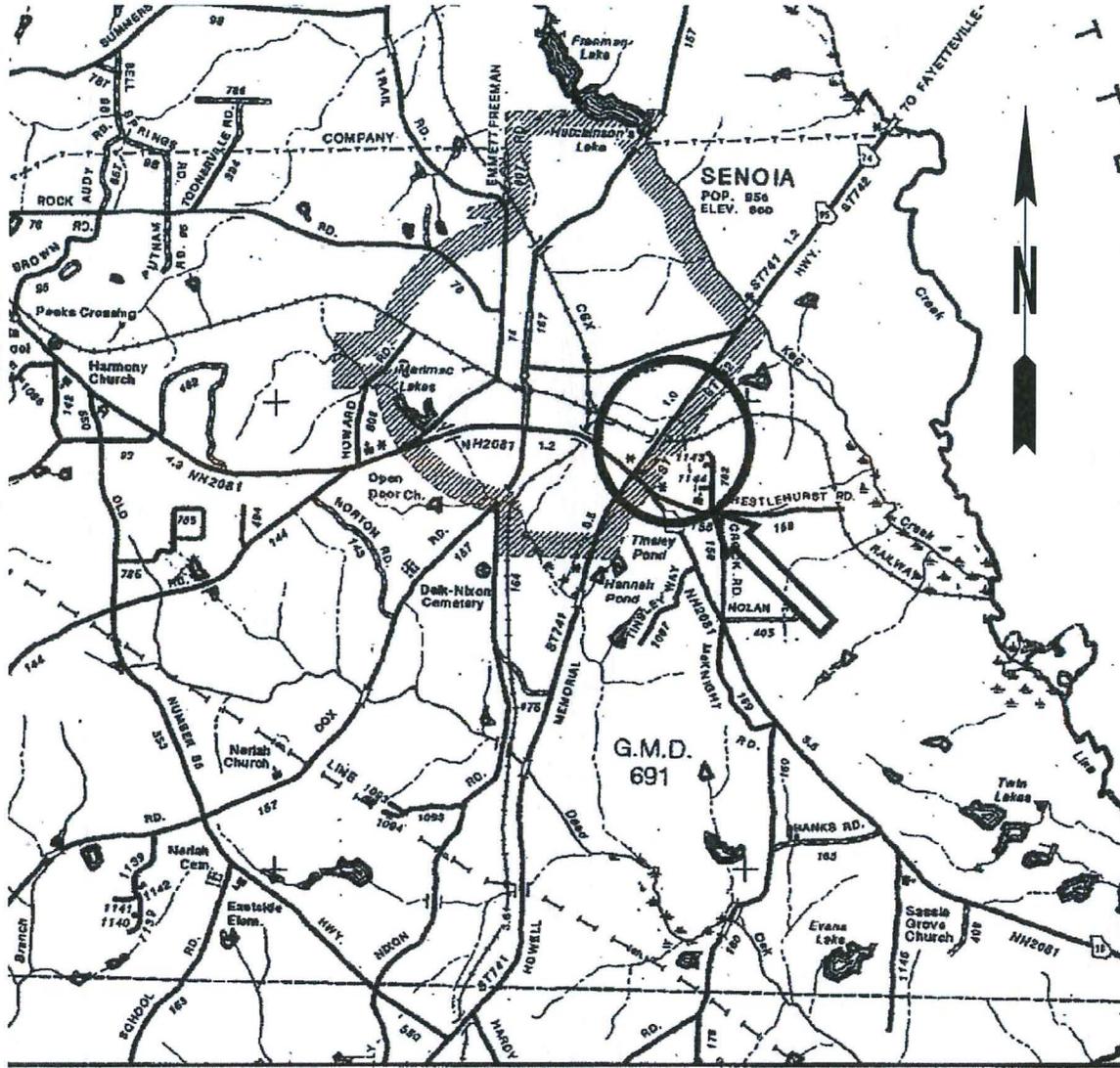
1. Sketch map
2. Concept Layout
3. Typical Section(s)
4. Cost Estimate(s)
5. Conforming plan's network schematics showing thru lanes
6. Correspondence between GDOT and City of Senoia
7. City of Senoia Recreation Master Plan Map
8. TRAFFIC & 9. BRIDGE INVENTORY

APPROVALS

Concur: 
 Director of Engineering

Approve: 
 Chief Engineer

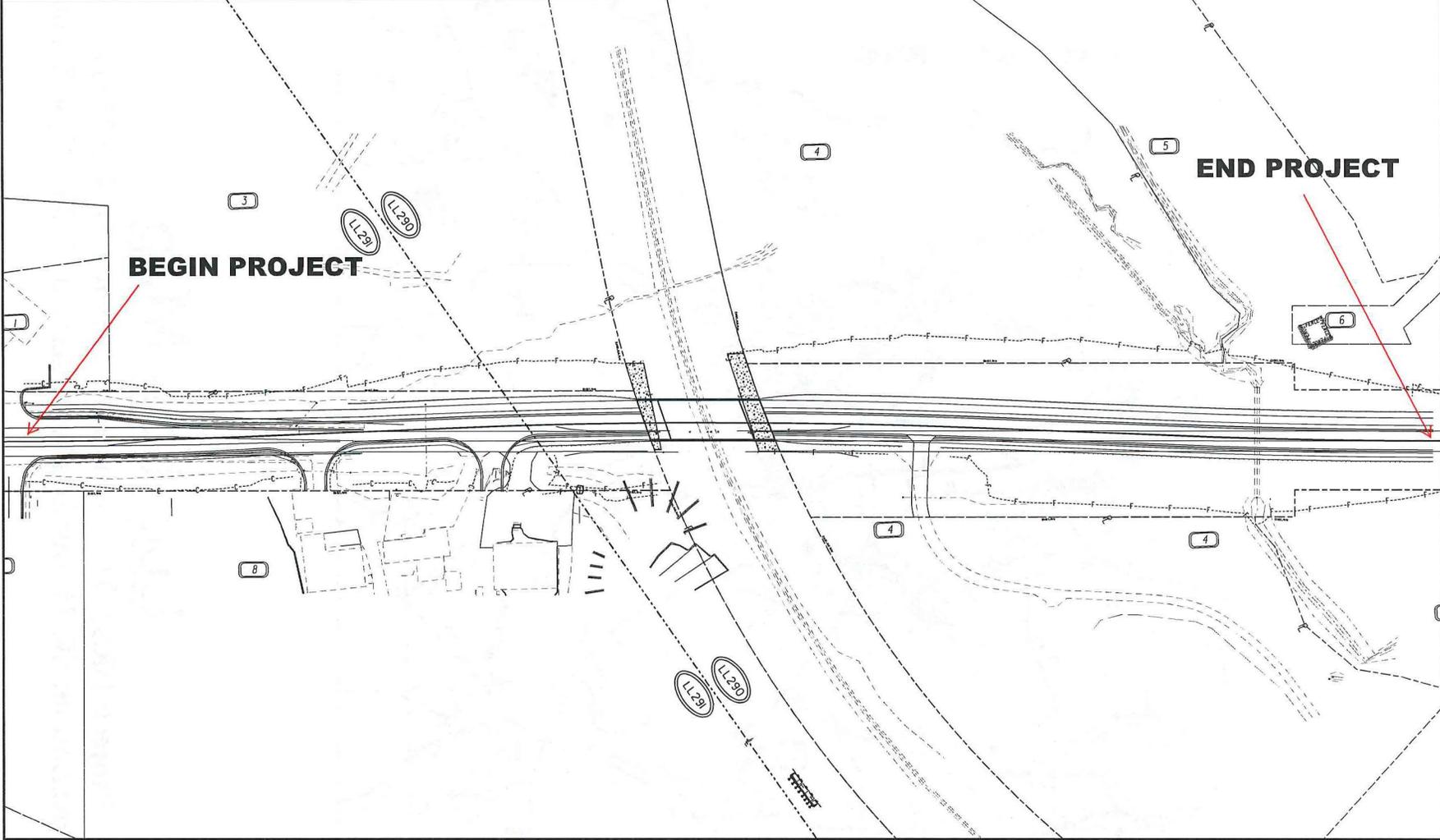
9.21.15
 Date



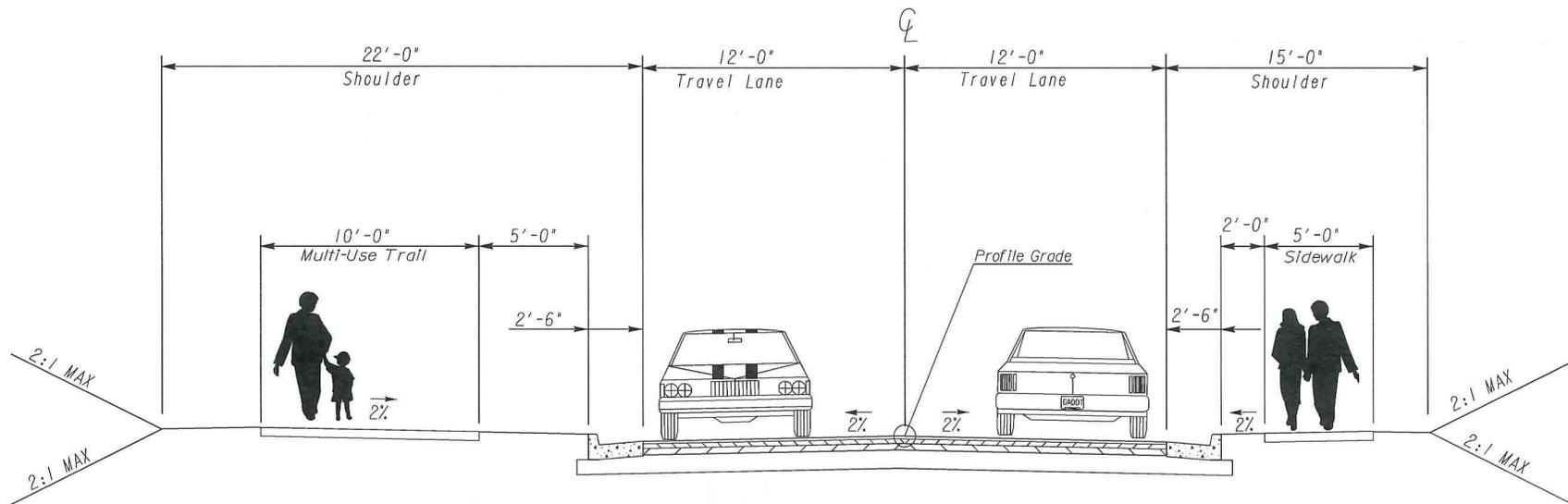
Location Map

Project: BRST-074-2(42) Coweta County PI No.: 333176

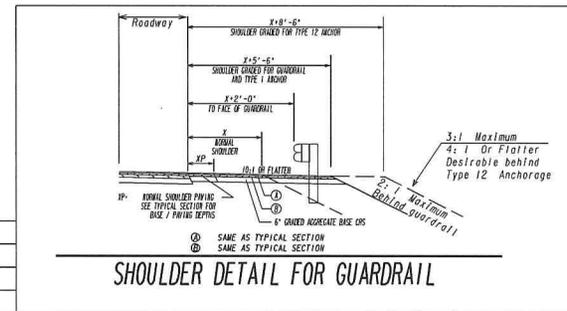
Description: SR 74 over Southern Railroad (718831X) in Senoia



			<p>SCALE IN FEET</p>	<p>REVISION DATES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td> </td><td> </td></tr> </table>													<p>MAINLINE PLAN</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>CHECKED:</td> <td>DATE:</td> <td rowspan="4" style="text-align: center; vertical-align: middle;">DRAWING No. 13-</td> </tr> <tr> <td>BACKCHECKED:</td> <td>DATE:</td> </tr> <tr> <td>CORRECTED:</td> <td>DATE:</td> </tr> <tr> <td>VERIFIED:</td> <td>DATE:</td> </tr> </table>	CHECKED:	DATE:	DRAWING No. 13-	BACKCHECKED:	DATE:	CORRECTED:	DATE:	VERIFIED:	DATE:
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TANGENT SECTION



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

SHOULDER DETAIL FOR GUARDRAIL

REVISION DATES	

TYPICAL SECTIONS
PI# 333176
CONCEPT

CHECKED:	DATE:	DRAWING No.
BACKCHECKED:	DATE:	
CORRECTED:	DATE:	
VERIFIED:	DATE:	

05-001

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. 333176 **OFFICE** Program Delivery

PROJECT DESCRIPTION

SR 74 @ NS #718831X in Senoia

DATE August 26, 2015

From: Joel Seagraves, Civil Engineering II District 2 Design

To: Lisa L. Myers, State Project Review Engineer

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Cherral Dempsey

MGMT LET DATE 6/15/2018

MGMT ROW DATE 10/15/2016

PROGRAMMED COSTS (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$ 2,290,764.45

DATE 4/15/2015

RIGHT OF WAY \$ 183,000.00

DATE 4/15/2015

UTILITIES \$ 176,400.00

DATE 4/15/2015

REVISED COST ESTIMATES

CONSTRUCTION* \$ 3,721,384.73

RIGHT OF WAY \$ 1,396,000.00

UTILITIES \$ 156,400.00

*Cost Contains 15 % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

These costs are based on the concept quantities. A 15% contingency was used because the risk for change to the cost estimate is high.

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$	3,016,752.91	Base Estimate From CES
B. ENGINEERING AND INSPECTION (E & I):	\$	150,837.65	Base Estimate (A) x 5 %
C. CONTINGENCY:	\$	475,138.58	Base Estimate (A) + E & I (B) x 15 % See % Table in "Risk Based Cost Estimation" Memo
D. TOTAL LIQUID AC ADJUSTMENT:	\$	78,655.59	Total From Liquid AC Spreadsheet
E. CONSTRUCTION TOTAL:	\$	3,721,384.73	(A + B + C + D = E)

REIMBURSABLE UTILITY COSTS

UTILITY OWNER	REIMBURSABLE COST
Bellsouth	\$ -
Atlanta Gas Light	\$ -
City of Senoia	\$ -
Norfolk Southern Railway Co.	\$ 156,400.00
TOTAL	\$ 156,400.00

ATTACHMENTS:

Detailed Cost Estimate Printout From TRAQS Liquid AC Adjustment Spreadsheet Preliminary Railroad Cost Preliminary Utility Cost Preliminary R.O.W. Cost
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DETAILED COST ESTIMATE



Job: 333176 JSS C

JOB NUMBER 333176 JSS C

FED/STATE PROJECT NUMBER BRST0-0074-02 (042)

SPEC YEAR: 01

DESCRIPTION: SR 74 BRIDGE REPLACEMENT OVER NS RXR COWETA CO.
2-LANE ONSITE DETOUR 24' OFFSET

ITEMS FOR JOB 333176 JSS C

10 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$50,000.00000	TRAFFIC CONTROL - BRST0-0074-02 (042)	\$50,000.00
0013	150-5010	2.000	EA	\$6,768.05603	TRAF CTRL,PORTABLE IMPACT ATTN	\$13,536.11
0014	153-1300	1.000	EA	\$59,911.09000	FIELD ENGINEERS OFFICE TP 3	\$59,911.09
0015	207-0203	50.000	CY	\$50.59020	FOUND BKFFILL MATL, TP II	\$2,529.51
0020	210-0100	1.000	LS	\$698,546.00000	GRADING COMPLETE - BRST0-0074-02 (042)	\$698,546.00
0025	310-1101	6672.000	TN	\$20.07299	GR AGGR BASE CRS, INCL MATL	\$133,926.99
0030	318-3000	100.000	TN	\$20.95465	AGGR SURF CRS	\$2,095.47
0029	400-3150	170.000	TN	\$130.62000	ASPH CONC 9.5MM OGFC,GP2,POLY-MOD.,BM&HL	\$22,205.40
0035	402-1812	170.000	TN	\$86.08246	RECYL AC LEVELING,INC BM&HL	\$14,634.02
0045	402-3121	2900.000	TN	\$69.02109	RECYL AC 25MM SP,GP1/2,BM&HL	\$200,161.16
0040	402-3130	510.000	TN	\$88.75267	RECYL AC 12.5MM SP,GP2,BM&HL	\$45,263.86
0050	402-3190	1706.000	TN	\$73.24774	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$124,960.64
0055	413-1000	1425.000	GL	\$2.67090	BITUM TACK COAT	\$3,806.03
0060	433-1200	257.000	SY	\$141.89666	REF CONC APPR SL/I SLOPED EDGE	\$36,467.44
0070	441-0303	4.000	EA	\$1,606.67038	CONC SPILLWAY, TP 3	\$6,426.68
0355	441-6022	4000.000	LF	\$15.96993	CONC CURB & GUTTER, 6"X30"TP2	\$63,879.72
0075	446-1100	4000.000	LF	\$2.92463	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	\$11,698.52
0395	500-3101	131.140	CY	\$512.10068	CLASS A CONCRETE CULVERT EXTENSION	\$67,156.88
0400	511-1000	12447.000	LB	\$0.79577	BAR REINF STEEL CULVERT EXTENSION	\$9,904.95
0095	550-1180	3485.000	LF	\$28.58570	STM DR PIPE 18",H 1-10	\$99,621.16
0109	550-3318	2.000	EA	\$581.92282	SAFETY END SECTION 18",STD,4:1	\$1,163.85
0110	550-4218	7.000	EA	\$482.55333	FLARED END SECT 18 IN, ST DR	\$3,377.87
0120	641-1100	84.000	LF	\$65.64684	GUARDRAIL, TP T	\$5,514.33
0125	641-1200	3000.000	LF	\$13.41355	GUARDRAIL, TP W	\$40,240.65
0130	641-5001	2.000	EA	\$604.27744	GUARDRAIL ANCHORAGE, TP 1	\$1,208.55
0135	641-5012	2.000	EA	\$1,800.97830	GUARDRAIL ANCHORAGE, TP 12	\$3,601.96
0140	643-8200	2000.000	LF	\$2.07817	BARRIER FENCE (ORANGE), 4 FT	\$4,156.34
0370	668-1100	16.000	EA	\$1,968.87681	CATCH BASIN, GP 1	\$31,502.03
0365	668-1110	30.000	LF	\$166.66402	CATCH BASIN, GP 1, ADDL DEPTH	\$4,999.92
0380	668-2100	4.000	EA	\$2,280.00000	DROP INLET, GP 1	\$9,120.00
0375	668-5000	3.000	EA	\$1,233.76853	JUNCTION BOX	\$3,701.31
SUBTOTAL FOR ROADWAY:						\$1,775,318.44

DETAILED COST ESTIMATE



Job: 333176 JSS C

20 - PERMANENT EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0145	603-2181	75.000	SY	\$38.25626	STN DUMPED RIP RAP, TP 3, 18"	\$2,869.22
0310	603-7000	75.000	SY	\$2.97671	PLASTIC FILTER FABRIC	\$223.25
0150	700-6910	10.000	AC	\$902.63636	PERMANENT GRASSING	\$9,026.36
0155	700-7000	30.000	TN	\$78.81185	AGRICULTURAL LIME	\$2,364.36
0160	700-8000	60.000	TN	\$524.79259	FERTILIZER MIXED GRADE	\$31,487.56
0165	700-8100	100.000	LB	\$2.51469	FERTILIZER NITROGEN CONTENT	\$251.47
0170	711-0100	350.000	SY	\$4.00000	TURF REINFORCING MATTING, TP 1	\$1,400.00
0175	716-2000	1450.000	SY	\$1.33223	EROSION CONTROL MATS, SLOPES	\$1,931.73
0385	999-3110	1.000	EA	\$62,500.00000	DETENTION POND MS4	\$62,500.00
0390	999-3110	1.000	EA	\$56,000.00000	DETENTION POND MS4	\$56,000.00
SUBTOTAL FOR PERMANENT EROSION CONTROL:						\$168,053.95

30 - TEMPORARY EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0180	163-0232	25.000	AC	\$237.74723	TEMPORARY GRASSING	\$5,943.68
0185	163-0240	250.000	TN	\$172.64933	MULCH	\$43,162.33
0190	163-0300	2.000	EA	\$1,204.25100	CONSTRUCTION EXIT	\$2,408.50
0195	163-0520	1000.000	LF	\$13.41078	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$13,410.78
0200	163-0528	900.000	LF	\$4.34625	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$3,911.63
0205	163-0529	5000.000	LF	\$3.45319	CNST/REM TEMP SED BAR OR BLD STRW CK DM	\$17,265.95
0210	165-0030	7025.000	LF	\$0.69700	MAINT OF TEMP SILT FENCE, TP C	\$4,896.43
0215	165-0041	936.000	LF	\$1.38271	MAINT OF CHECK DAMS - ALL TYPES	\$1,294.22
0220	165-0071	2500.000	LF	\$1.08680	MAINT OF SEDIMENT BARRIER - BALED STRAW	\$2,717.00
0225	165-0101	2.000	EA	\$493.21640	MAINT OF CONST EXIT	\$986.43
0230	167-1000	6.000	EA	\$418.46250	WATER QUALITY MONITORING AND SAMPLING	\$2,510.78
0235	167-1500	18.000	MO	\$597.88856	WATER QUALITY INSPECTIONS	\$10,761.99
0240	171-0030	10000.000	LF	\$2.72440	TEMPORARY SILT FENCE, TYPE C	\$27,244.00
SUBTOTAL FOR TEMPORARY EROSION CONTROL:						\$136,513.72

40 - SIGNING AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0245	636-1020	22.000	SF	\$13.88873	HWY SGN,TP1MAT,REFL SH TP3	\$305.55
0250	636-1033	38.000	SF	\$16.83155	HWY SIGNS, TP1MAT,REFL SH TP 9	\$639.60
0255	636-2070	39.000	LF	\$7.50702	GALV STEEL POSTS, TP 7	\$292.77
0260	636-2090	60.000	LF	\$6.87870	GALV STEEL POSTS, TP 9	\$412.72
0270	653-1501	3700.000	LF	\$0.53162	THERMO SOLID TRAF ST 5 IN, WHI	\$1,966.99
0265	653-1502	3700.000	LF	\$0.49216	THERMO SOLID TRAF ST, 5 IN YEL	\$1,820.99
0285	654-1001	140.000	EA	\$4.14505	RAISED PVMT MARKERS TP 1	\$580.31
0280	657-1085	320.000	LF	\$6.26698	PRF PL SD PVT MKG,8",B/W,TP PB	\$2,005.43
0275	657-6085	320.000	LF	\$5.89281	PRF PL SD PVMT MKG,8",B/Y,TPPB	\$1,885.70
SUBTOTAL FOR SIGNING AND MARKING:						\$9,910.06

DETAILED COST ESTIMATE



Job: 333176 JSS C

50 - BRIDGE

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0300	441-0004	550.000	SY	\$40.23900	CONC SLOPE PAV, 4 IN	\$22,131.45
0290	540-1102	1.000	LS	\$100,800.00000	REM OF EX BR, BR NO - 1	\$100,800.00
0295	543-9000	1.000	LS	\$624,000.00000	CONSTR OF BRIDGE COMPLETE - 1	\$624,000.00
SUBTOTAL FOR BRIDGE:						\$746,931.45

60 - DETOUR

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0350	620-0100	1820.000	LF	\$20.75840	TEMP BARRIER, METHOD NO. 1	\$37,780.29
SUBTOTAL FOR DETOUR:						\$37,780.29

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0410	005-0004	1.000	*\$*	\$133,920.00000	WETLAND MITIGATION 1116 LF X \$120 STREAM REALIGN	\$133,920.00
0405	700-9400	3.000	AC	\$2,775.00000	NATIVE REST & RIPARIAN SEEDING	\$8,325.00
SUBTOTAL FOR :						\$142,245.00

TOTALS FOR JOB 333176 JSS C

ITEMS COST:	\$3,016,752.91
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$3,016,752.91
CONTINGENCY PERCENT:	0.15
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$3,642,729.14

PROJ. NO. BRST0-0074-02 (042)
 P.I. NO. 333176
 DATE 8/26/2015

CALL NO. 9/29/2009

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Aug-15	\$ 2.497
DIESEL		\$ 2.725
LIQUID AC		\$ 470.00

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)				76929.6	\$	76,929.60
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	752.00		
Monthly Asphalt Cement Price month project let (APL)			\$	470.00		
Total Monthly Tonnage of asphalt cement (TMT)				272.8		

ASPHALT	Tons	%AC	AC ton
Leveling	170.00	5.0%	8.5
9.5 OGFC	170	5.0%	8.5
12.5 mm	510.00	5.0%	25.5
9.5 mm SP		5.0%	0
25 mm SP	2,900.00	5.0%	145
19 mm SP	1,706.00	5.0%	85.3
	5456		272.8

BITUMINOUS TACK COAT

Price Adjustment (PA)			\$	1,725.99	\$	1,725.99
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	752.00		
Monthly Asphalt Cement Price month project let (APL)			\$	470.00		
Total Monthly Tonnage of asphalt cement (TMT)				6.120518814		

Bitum Tack

Gals	gals/ton	tons
1425	232.8234	6.12051881

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				0	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	752.00		
Monthly Asphalt Cement Price month project let (APL)			\$	470.00		
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 \$ 78,655.59

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE: PI #333176-, Coweta County **OFFICE:** State Utilities Office

FROM: *Jill Franks for:*
Michael J. Bolden, State Utility Engineer **DATE:** December 15, 2014

TO: Albert Shelby, State Program Delivery Engineer
Attn: Sue Anne Decker, Project Manager

SUBJECT: PRELIMINARY RAILROAD COST FOR SURFACE WORK

A review of railroads located within the project limits on the above referenced project has been conducted based on the proposed concept report. Listed below is a breakdown of the estimated railroad costs:

<u>FACILITY OWNER</u>	<u>NON-REIMBURSABLE</u>	<u>REIMBURSABLE</u>
Norfolk Southern Railway Company		
– P.E. cost for bridge over railroad	\$0.00	\$46,200.00
– Const. cost for bridge over railroad	\$0.00	\$110,200.00
Total Reimbursement Cost:	\$0.00	\$156,400.00

Total railroad surface work reimbursable cost for the above project is estimated to be:
\$156,400.00.

Please note that this amount does not include other reimbursable utility and railroad warning device costs that may be associated with this project. Please keep the railroad costs separate from other utilities in your designer's cost estimate.

If you have any questions, please contact Jill Franks, (404) 631-1370, jfranks@dot.ga.gov or Marcela Coll, (404)631-1372 mcoll@dot.ga.gov.

MJB:jlf

cc: Jun Birnkammer, State Utilities Preconstruction Engineer
Angela Robinson, State Financial Management Administrator
Kerry Gore, District 3 Utilities Engineer
Michael Nash, Railroad Crossing Program Manager

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **BRSTO-0074-02(042), Coweta County, P.I. # 333176**
Bridge replacement on SR 74/85 @ NS Railroad

OFFICE Thomaston

DATE July 16, 2015

FROM Scott Parker, Assistant District Utilities Engineer

TO Cherral Dempsey, 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>
BellSouth	\$30,000	
Atlanta Gas Light	\$35,000	
City of Senoia	\$24,000	
TOTALS	\$89,000	

Total Preliminary Utility Cost Estimate **\$89,000**.

If you have any questions, please contact Gene McKissick at 706-646-7604.

SP/GM

cc: Lee Upkins, State Utilities Engineer (via: e-mail)

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 7/27/2015 Project: BRSTO-0074-02(042)
 Revised: County: Coweta
 PI: 333176

Description: Bridge Replacement over Norfolk Southern Railroad
 Project Termini: Bridge Replacement over Norfolk Southern Railroad

Existing ROW: Varies
 Required ROW: Varies
 Parcels: 9

Land and Improvements _____ \$1,146,150.00

Proximity Damage	\$25,000.00
Consequential Damage	\$0.00
Cost to Cures	\$5,000.00
Trade Fixtures	\$0.00
Improvements	\$60,000.00

Valuation Services _____ \$47,500.00

Legal Services _____ \$81,075.00

Relocation _____ \$18,000.00

Demolition _____ \$0.00

Administrative _____ \$103,000.00

TOTAL ESTIMATED COSTS _____ \$1,395,725.00

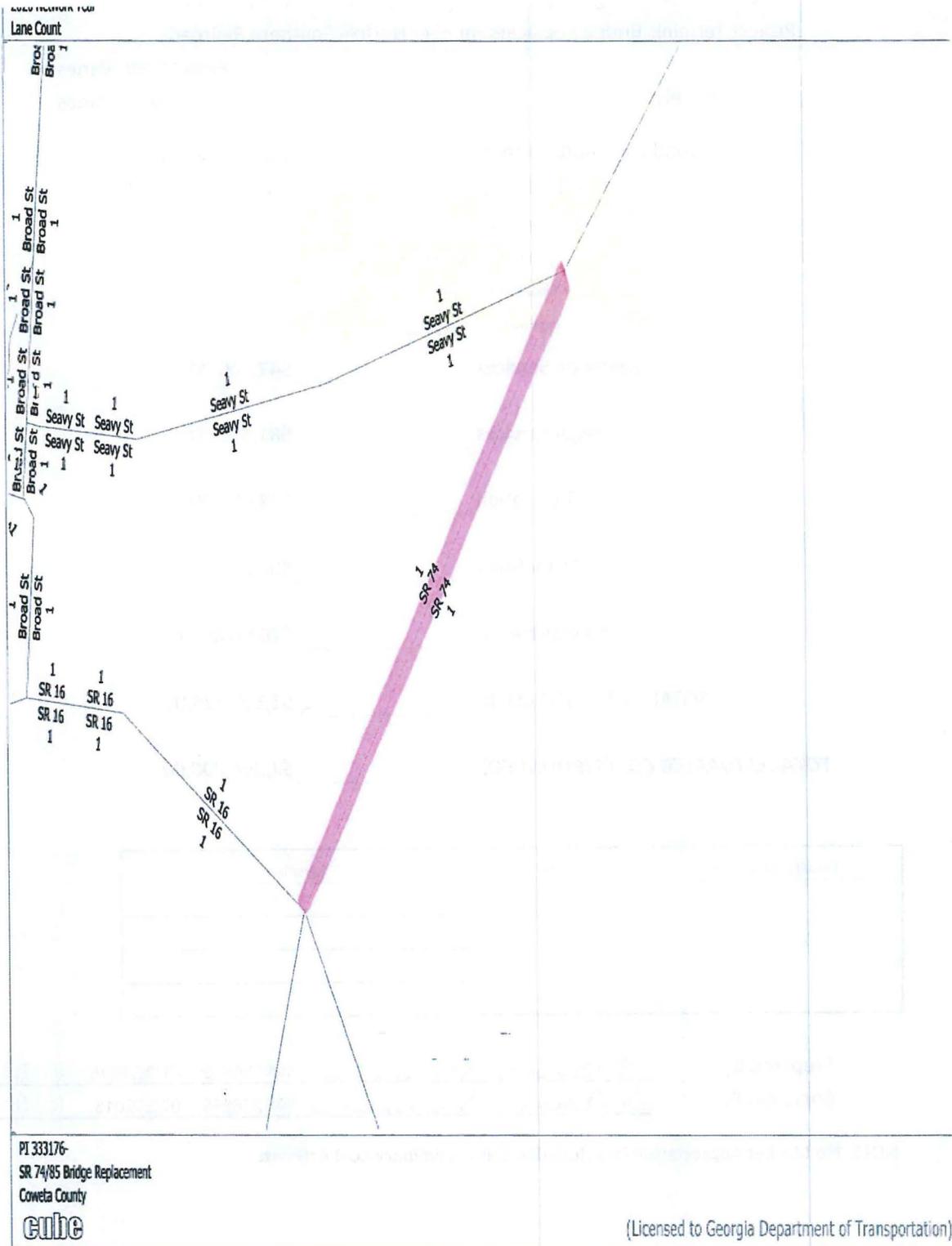
TOTAL ESTIMATED COSTS (ROUNDED) _____ \$1,396,000.00

Preparation Credits	Hours	Signature

Prepared By: Dathone Alexander CG#:286999 07/30/2015 (DATE)
 Approved By: Dathone Alexander CG#:286999 07/30/2015 (DATE)

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

Conforming Plan's Network Schematic



Keith Golden, P.E., Commissioner



GEORGIA DEPARTMENT OF TRANSPORTATION

One Georgia Center, 600 West Peachtree Street, NW
Atlanta, Georgia 30308
Telephone: (404) 631-1000

June 3, 2014

Mayor Larry Owens
City of Senoia
P.O. Box 310
Senoia, GA 30276

RE: BRST 0-0074-02(042)
P.I. No. 333176-
SR 74 @ NS #718831X in Senoia

Dear Mayor Owens:

This letter is in response to your May 15, 2014 letter inquiring about the inclusion of alternative transportation accommodations into the planned bridge replacement project on SR 74 over the Norfolk Southern railroad crossing. Project Identification (P.I.) # 333176- is proposed to replace this bridge with preliminary engineering activities currently getting underway.

In September 2012, the Georgia Department of Transportation (GDOT) adopted a Complete Streets Policy to provide guidance on the inclusion of improvements for other modes of travel as part of a planned transportation improvement. The policy provides detailed criteria and warrants to ensure that pedestrian and bicycle accommodations are included in infrastructure projects where they are permitted to travel. The full complete streets policy can be found at the following link for your information:
<http://www.dot.ga.gov/travelingingeorgia/CompleteStreets/Pages/default.aspx>.

Upon review of the published pedestrian and bicycle warrants in the complete streets policy, it is apparent that PI #333176- does warrant accommodations for these alternative modes of travel as the City of Senoia has an adopted planning study indicating a need for pedestrian improvements in this area. By copy of this letter, I am instructing the GDOT project manager, Ms. Sue Anne Decker, to ensure that the Complete Streets Policy is followed and bicycle/pedestrian improvements are considered as we work through the conceptual and design phases for the project.

If you have any questions, please contact Sue Anne Decker, Project Manager, at (706) 646-7559.

Sincerely,

A handwritten signature in blue ink that reads "Russell R. McMurry".

Russell R. McMurry, P.E.
Chief Engineer

RRM:ajh

cc: Andrew Heath, P.E., Executive Assistant to the Chief Engineer
Sue Anne Decker, Project Manager

Larry M. Owens
Mayor



Richard W. Ferry
City Manager

RECEIVED

MAY 22 2014

CHIEF ENGINEER'S
OFFICE

May 15, 2014

Mr. Russell McMurray
Georgia Department of Transportation
One Georgia Center
600 West Peachtree NW
Atlanta, GA 30308

Re: BRST 0-0074-02(042)
P.I. No. 333176
SR 74 @ NS #718831X in Senolia

Dear Mr. McMurray:

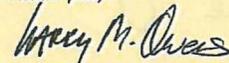
In 2011, as part of the City of Senolia Parks and Recreation Master Plan, the City adopted a plan for the expansion of the multi-use trail system in the City. A map from this plan is enclosed as attachment A. The City's original goal was to devise a plan for alternative transportation that connects all the neighborhoods to the downtown. However, when we began looking closely we found an incredible demand for access the commercial developments located at the intersection of GA Hwy 16 & 74/85. This connection is shown as path M-4 on the map.

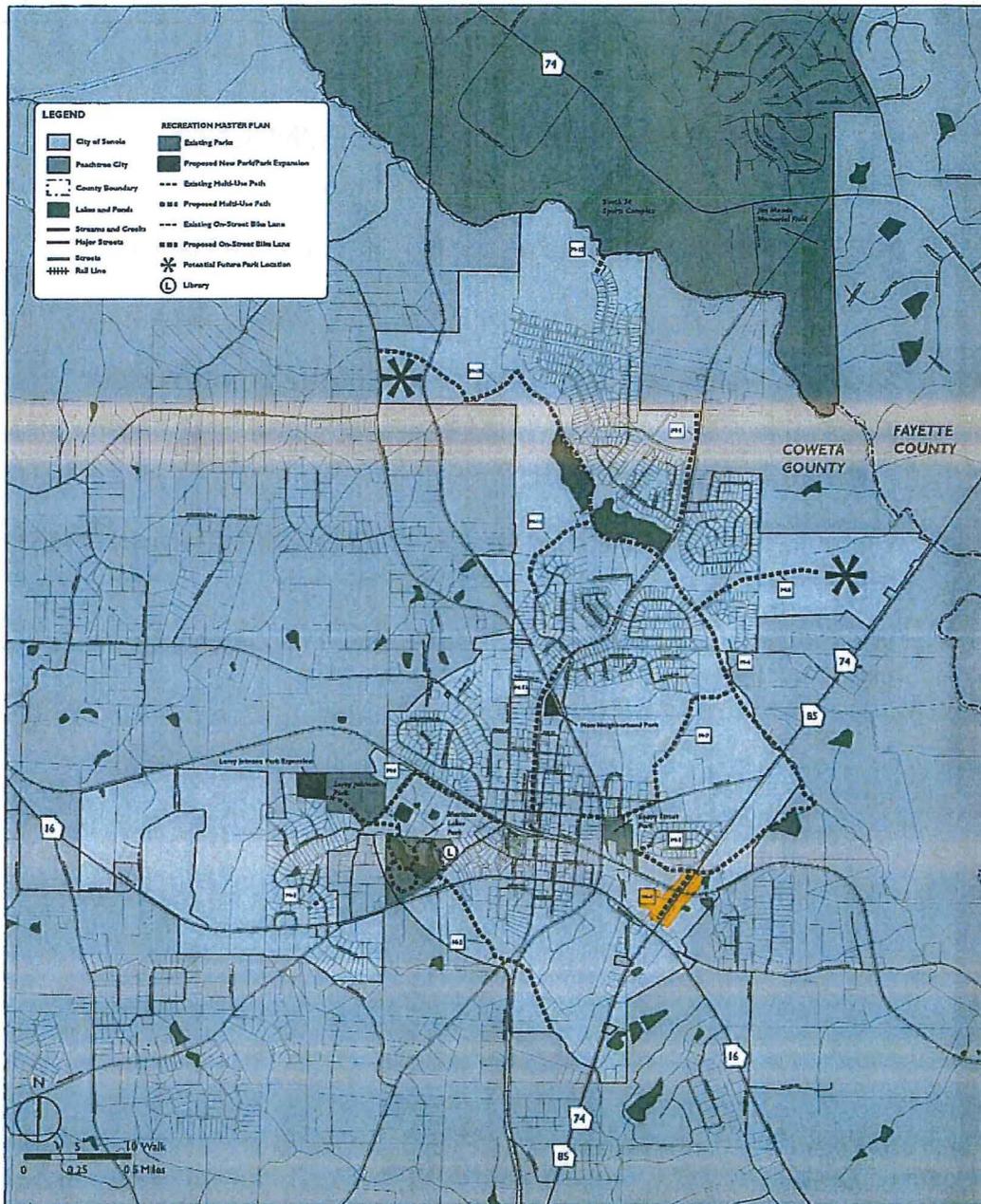
Unfortunately, this trail crosses the Norfolk Southern Railroad. Our experience has been that it is very difficult to get a permit from them.

On May 5, 2014, I received a letter from Thomas Howell regarding a bridge improvement at this crossing. It occurred to me that this would be an excellent opportunity to coordinate with GDOT to accommodate both the vehicular improvements as well as improvements for alternative transportation.

I look forward to discussing this with you. If you have any questions, please feel free to contact me or City manager, Richard Ferry.

Thank you,


Larry M. Owens, Mayor



Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE BRST0-0074-02(042), Coweta County **OFFICE** Planning
P.I. # 333176
DATE June 6, 2013

FROM Cynthia L. VanDyke, State Transportation Planning Administrator

TO Genetha Rice-Singleton, State Program Delivery Engineer
Attention: Sue Ann Decker

SUBJECT **Updated** Traffic Assignments for S.R. 74 @ Southern Railroad (718831X)
City of Senoia.

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

TC # 077-0378
2011 AADT = 11050
2018 AADT = 12200
2038 AADT = 20000
2011 DHV = 1100
2018 DHV = 1220
2038 DHV = 2000
K = 10%
D = 65%
T = 7.25%
S.U. = 6.25%
COMB. = 1.0%
24 HR. T. = 7.5%
S.U. = 5%
COMB. = 2.5%

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:077-0028-0

Coweta

SUFF. RATING: 56.20

Location & Geography				Signs & Attachments	
Structure ID:	077-0028-0	*104 Highway System:	0- Inventory Route is not on the NHS	225 Expansion Joint Type:	02- Open or sealed concrete joint (silicone sealant). 0- None.
200 Bdrge Information:	07	*26 Functional Classification:	6- Rural - Minor Arterial	242 Deck Drains:	
*6A Feature Int:	N. S. RAILROAD (718831X)	*204 Federal Route Type:	F - Primary. No: 00742	243 Parapet Location:	0- None present.
*6B Critical Bridge:		105 Federal Lands Highway:	0, Not applicable	Height:	0.00
*7A Route No Carried:	SR00074	*110 Truck Route:	0	Width:	0.00
*7B Facility Carried:	SR 74	206 School Bus Route:	0	238 Curb Height:	1
9 Location:	CITY OF SENOIA	217 Benchmark Elevation:	0000.00	Curb Material:	1- Concrete.
2 Dot District:	4841300000 - D3 District Three Thomaston	218 Datum:	0- Not Applicable	239 Handrail	1- Concrete. 1- Concrete.
207 Year Photo:	2013	*19 Bypass Length:	2	*240 Median Barrier Rail:	0- None.
*91 Inspection Frequency:	24 Date: 07/21/2015	*20 Toll:	3- On a Free Road or Non-Highway	241 Bridge Median Height:	0
92A Fract Crit Insp Freq:	0 Date: 02/01/1901	*21 Maintanance:	01-State Highway Agency.	* Bridge Median Width:	0
92B Underwater Insp Freq:	00 Date: 02/01/1901	*22 Owner:	01-State Highway Agency.	230 Guardrail Loc. Dir. Rear:	3- Both sides.
92C Other Spc. Insp Freq:	00 Date: 02/01/1901	*31 Design Load:	2- H 15	Fwrd:	3- Both sides.
* 4 Place Code:	69672	37 Historical Significance:	5- Not eligible for the National Register of Historic Places	Oppo. Dir. Rear:	0- None.
*5 Inventory Route(O/U):	1	205 Congressional District:	3 - THREE	Oppo. Fwrd:	0- None.
Type:	3 - State	27 Year Constructed:	1950	244 Approach Slab	0- None.
Designation:	1- Mainline	106 Year Reconstructed:	0	224 Retaining Wall:	0- None.
Number:	00074	33 Bridge Median	0-None	233Posted Speed Limit:	45
Direction:	0. Not applicable	34 Skew:	22	236 Warning Sign:	0.00
*16 Latitude:	33.0000- 17.7504 HMMS Prefix:SR	35 Structure Flared:	No	234 Delineator:	1.00
*17 Longitude:	84.0000- 32.5386 HMMS Suffix:00 MP: 1.95	38 Navigation Control:	N- Bridge is not over water	235 Hazard Boards:	1
98 Border Bridge:	% Shared:00	213 Special Steel Design:	0- Not applicable or other	237 Utilities Gas:	00- Not Applicable
99 ID Number:	0000000000000000	267 Type of Paint:	5- Waterborne System (Type VI or VII)	Water:	00- Not Applicable
*100 STRAHNET:	0- The Feature is not a STRAHNET route.	*42 Type of Service On:	1-Highway	Electric:	00- Not Applicable
12 Base Highway Network:	1	Type of Service Under:	2-Railroad	Telephone:	00- Not Applicable
13A LRS Inventory Route:	771007400	214 Movable Bridge:	0	Sewer:	00- Not Applicable
13B Sub Inventory Route:	0.00	203 Type Bridge:	J - Concre -O. Concrete M. Steel - O. Concrete	247 Lighting Street:	0
*101 Parallel Structure:	N. No parallel structure exists	259 Pile Encasement	3	Navigation:	0
*102 Direction of Traffic:	2- Two Way	*43 Structure Type Main:	3-Steel 2-Stringer/Multi-Beam or Girder	Aerial:	0- Not ;
*264 Road Inventory Mile Post:	005.62	45 No.Spans Main:	3	*248 County Continuity No.:	00
*208 Inspection Area:	Area 03 Initials: WBP	44 Structure Type Appr:	0- Other 0- Other		
Engineer's Initials:	JTB	46 No Spans Appr:	0		
* Location ID No:	077-00074D-001.95E	226 Bridge Curve Horz	0 Vert: 0.00		
		111 Pier Protection	N - Navigation Control item coded 0, or Feature not a waterway		
		107 Deck Structure Type:			
		108 Wearing Structure Type:			
		Membrane Type:			
		Deck Protection:			

Bridge Inventory Data Listing



Parameters: Bridge Serial Num

Structure ID:077-0028-0

Programming Data		Measurements:		Inventory Rating Method:	
201 Project No:	F-2710 (2) CT.2	*29 ADT	10580 Year:2012	65 Inventory Rating Method:	2-Allowable Stress (AS)
202 Plans Available:	4- Plans in Infomlage.	109 %Trucks:	1	63 Operating Rating Method:	2-Allowable Stress (AS)
249 Prop Proj No:	BRST-074-2 (42)	* 28 Lanes On:	2 Under:0	66 Inventory Type:	2 - HS loading. Rating: 21
250 Approval Status:	0000	210 No. Tracks On:	00 Under:01	64 Operating Type:	2 - HS loading. Rating: 34
251 PI Number:	333176-	* 48 Max. Span Length	40	231 Calculated Loads:	
252 Contract Date:	02/01/2009	* 49 Structure Length:	120	H-Modified:	20 0
260 Seismic No:	00000	51 Br. Rwdy. Width	25.80	HS-Modified:	25 0
75 Type Work:	34- Widening with deck 1- Work to be done by contract	52 Deck Width:	31.80	Type 3:	25 0
94 Bridge Imp. Cost:	\$469	* 47 Tot. Horiz. Cl:	26	Type 3s2:	38 0
95 Roadway Imp. Cost:	\$47	50 Curb / Sidewalk Width	2.00 / 2.00	Timber:	36 0
96 Total Imp Cost:	\$703	32 Approach Rdwy. Width	26	Piggyback:	40 0
76 Imp Length:	1440	*229 Shoulder Width:		261 H Inventory Rating:	15
97 Imp Year:	2013	Rear Lt:	2.00 Type:2- Rt:2	262 H Operating Rating	24
114 Future ADT:	15870 Year:2032	Fwd. Lt:	2.00 Type:2- Rt:2	67 Structural Evaluation:	4
Hydraulic Data		Pavement Width:		58 Deck Condition:	7 - Good Condition
215 Waterway Data:		Rear:	22.00 Type: 2- Asphalt.	59 Superstructure Condition:	7 - Good Condition
High Water Elev:	0000.0 Year:1900		22.00 Type: 2- Asphalt.	* 227 Collision Damage:	
Flood Elev:	0000.0 Freq:00	Intersection Rear:	0 Fwd: 0	60A Substructure Condition:	7 - Good Condition
Avg Streambed Elev:	0000.0	36 Safety Features Br. Rail:	2- Inspected feature meets acceptable construction date standards.	60B Scour Condition:	N - Not Applicable
Drainage Area:	00000	Transition:	2- Inspected feature meets acceptable construction date standards.	60C Underwater Condition	N - Not Applicable
Area of Opening:	000000	App. G. Rail:	2- Inspected feature meets acceptable construction date standards.	71 Waterway Adequacy:	Not Applicable.
113 Scour Critical	N. Bridge not over waterway.	App. Rail End:	2- Inspected feature meets acceptable construction date standards.	61 Channel Protection Cond.:	10
216 Water Depth:	00.0 Br.Height:00.0	53 Minimum Cl. Over:	99'99"	68 Deck Geometry:	2
222 Slope Protection:	0	Under: R- Railroad beneath structure.	21.00'9.00"	69 UnderClr. Horz/Vert:	N
221 Spur Dikes Rear	0 Fwd:0	*228 Minimum Vertical Cl		72 Appr. Alignment:	5-Between 6 and 3
219 Fender System	0- None.	Act. Odm Dir::	99' 99"	62 Culvert:	N - Not Applicable
220 Dolphin:		Oppo. Dir:	99' 99"	Posting Data	
223 Culvert Cover:	000	Posted Odm. Dir:	00' 00"	70 Bridge Posting Required	5. Equal to or above legal loads
Type:	0- Not Applicable	Oppo. Dir:	00'00 "	41 Struct Open, Posted, CL:	A. Open, no restriction
No. Barrels:	0	55 Lateral Undercl. Rt:	R- Railroad beneath structure. 10.60	* 103 Temporary Structure:	0
Width:	0.00 Height:0	56 Lateral Undercl. Lt:	0.00	232 Posted Loads	
Length:	0 Apron:0	*10 Max Min Vert Cl:	99' 99" Dir:0	H-Modified:	00
*265 U/W Insp. Area	0 Diver:ZZZ	39 Nav Vert Cl:	000 Horiz:0	HS-Modified:	00
*Location ID No:	077-00074D-001.95E	116 Nav Vert Cl Closed:	000	Type 3:	00
		245 Deck Thickness Main Deck Thick Approach:	6.70 0.00	Type 3s2:	00
		246 Overlay Thickness:	1.50	Timber:	00
				Piggyback	00
		212 Year Last Painted:	Sup:2003 Sub:0000	253 Notification Date:	02/01/1901
				258 Fed Notify Date:	02/01/1901