

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #0009948

OFFICE Design Policy & Support

Lumpkin County
GDOT District 1 - Gainesville
Roundabout: SR 52 @ SR 115/CR 41

DATE 10/11/16

FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED LOCATION & DESIGN REPORT

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Eric Duff, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Richard Cobb, Location Bureau Chief
Brent Cook, District Engineer
Brandon Kirby, District Preconstruction Engineer
Kim Coley, District Planning & Programming Engineer
Matt Needham, Area Engineer - D1, A4
Merishia Robinson, Project Manager
BOARD MEMBER - 9th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

LOCATION AND DESIGN REPORT

FILE PI 0009948
Lumpkin County
SR 52@SR 115/ CR41 /Copper
Mines Road

OFFICE Program Delivery

DATE September 20, 2016

FROM *kw* Albert V. Shelby III, State Program Delivery Engineer

Albert Shelby

TO Brent Story, State Design Policy Engineer/Attn: State Conceptual Design Group
Manager

SUBJECT Request for Location and Design Approval

Description and Project Proposal: The project begins on SR52/115 950 ft. south of the intersection with SR 52, SR 115 and Copper Mines Road/CR 41 at MP 6.65 and ends 1110 ft. north of the intersection on SR 115 at MP 7.04 for a total project length of 0.39 miles. The project limits along SR 52 are located approximately 970 ft. east of the intersection and 780 ft. west of the intersection for Copper Mines Road/CR 41. The entire project is located within Lumpkin County and project limits were set based on the placement of advance warning signage for the roundabout as well as removal of the existing signage and striping for the four-way stop intersection. The project proposes improving the intersection of SR52/115, SR 52, SR 115 and Copper Mines Road/CR 41. This includes a single lane roundabout with an elliptical 196 ft. x 136 ft. inscribed diameter. A right turn bypass lane within the acute intersection angle of SR 52 WB with SR 115 NB will be realigned to have a larger radii and a wider lane width. Crosswalks will be placed on all four legs of the roundabout with refuges located within the splitter islands and the right turn bypass lane to improve the conveyance of pedestrians. Sidewalks will also be placed on all four legs of the roundabout.

Concept Approval Date: December 17, 2014

Concept Update: No changes have been made to the project Concept Report since its approval.

Environmental Document:

Document Type: NEPA - Categorical Exclusion Approval Date: 5/23/2016

Public Involvement:

A PIOH was held December 2, 2014 and below are a summary of the findings:

Basic Meeting and Response Letter Info	
Meeting Date: 12/2/2014	Number of Attendees: 17
End of Comment Period: 12/16/2014	

Forms at the Meeting	Forms or Letters Mailed to OES	Court Reporter Statements	Comments from OES's Website
3	5	0	1

No. Opposed	No. In Support	No. Uncommitted	Conditional
7	1	0	1

Major Concerns:

A traffic signal would be preferred; concern that the roundabout will not be safer than the existing condition; concern that trucks will not be able to maneuver through the roundabout; concern about the project cost; would like to know the cost of caution lights versus the roundabout

Public Officials:

Larry Reiter, Director of Planning and Public Works, Lumpkin County
 Charles Trammell, Special Projects Manager, Lumpkin County

Media:

None

Consistency with Approved Planning: The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: Recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

Concur: Hial Patel
 GDOT Director of Engineering

Approve: Margaret B. Pivello 9/30/16
 GDOT Chief Engineer Date

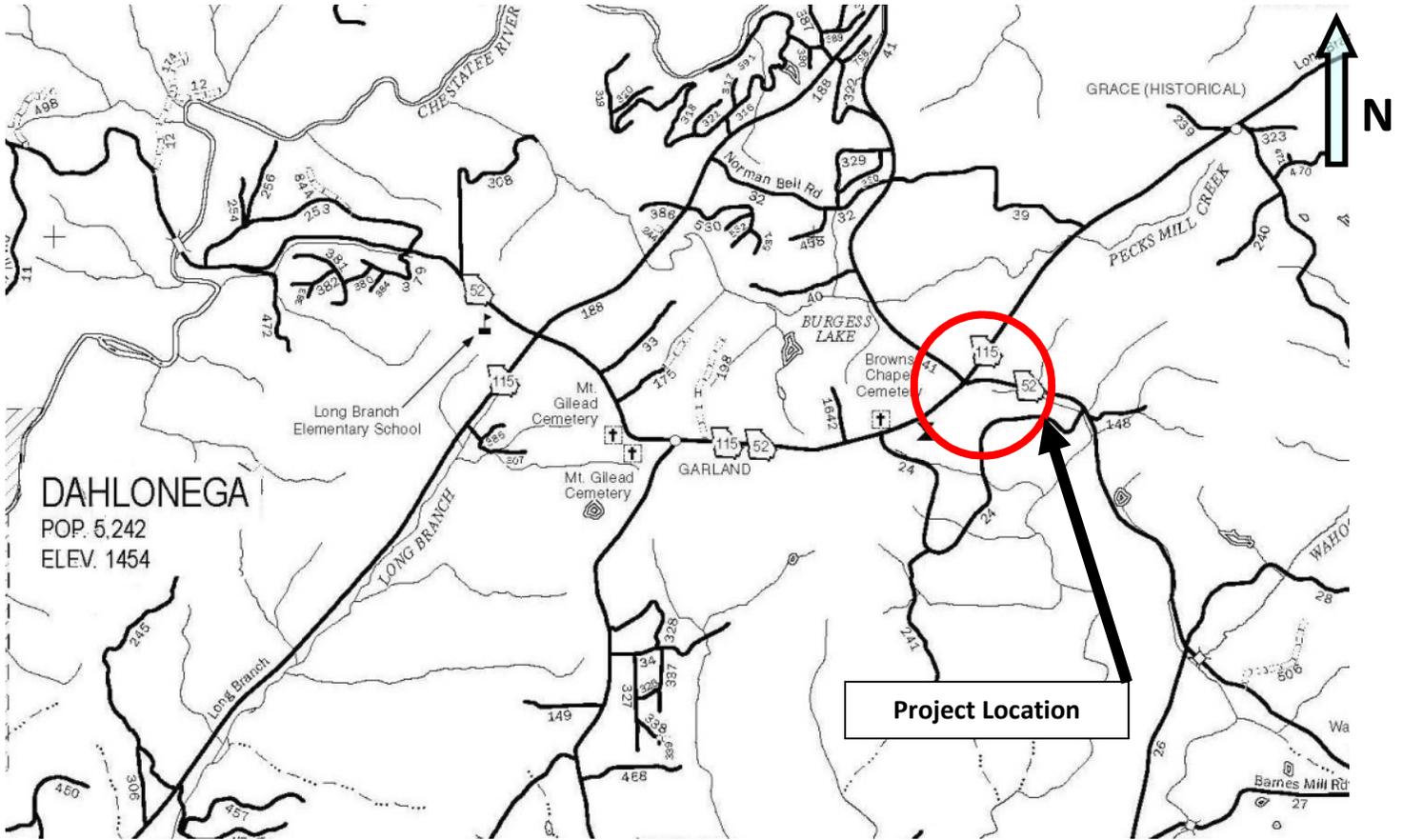
DATE OF LOCATION AND DESIGN APPROVAL: October 11, 2016
 (To be entered by State Conceptual Design Group Manager)

Attachments:

- Sketch Map
- Construction Cost Estimate
- Notice of Location and Design Approval

Project Location Map

PI 0009948, Lumpkin County



Not to Scale

Job ID 0009948

DETAILED COST ESTIMATE

JOB NUMBER: 0009948 FED/STATE PROJECT NUMBER:
 SPEC YEAR: 13
 DESCRIPTION: SR 115 AT SR 52Assigned Control Group: GRESHAM SMITH AND PARTNERS CC

ITEMS FOR JOB 0009948

0010 - ROADWAY

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0004	150-1000	1.00	LS	\$100,000.0000 0	TRAFFIC CONTROL -	\$100,000.00
0005	210-0100	1.00	LS	\$450,000.0000 0	GRADING COMPLETE -	\$450,000.00
0009	310-1101	50.00	TN	\$35.00349	GR AGGR BASE CRS, INCL MATL	\$1,750.17
0010	402-3113	781.75	TN	\$128.00000	RECYL AC 12.5MM SP,GP1/2,BM&HL	\$100,064.00
0015	402-3190	680.57	TN	\$93.41255	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$63,573.31
0020	402-3121	1331.12	TN	\$86.98328	RECYL AC 25MM SP,GP1/2,BM&HL	\$115,784.92
0025	310-1101	5020.54	TN	\$25.30942	GR AGGR BASE CRS, INCL MATL	\$127,066.85
0030	413-0750	800.16	GL	\$3.39000	TACK COAT	\$2,712.54
0035	402-1812	1250.00	TN	\$80.51640	RECYL AC LEVELING,INC BM&HL	\$100,645.50
0040	432-0206	2000.00	SY	\$5.79905	MILL ASPH CONC PVMT/ 1.50 DEP	\$11,598.10
0045	446-1100	1700.00	LF	\$5.64410	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	\$9,594.97
0050	441-0104	1443.08	SY	\$40.18563	CONC SIDEWALK, 4 IN	\$57,990.88
0055	441-5008	1338.90	LF	\$14.09000	CONC HEADER CURB, 6 IN, TP 7	\$18,865.10
0060	441-5025	399.18	LF	\$12.00000	CONC HEADER CURB, 4, TP 9	\$4,790.14
0065	441-6222	2872.74	LF	\$23.99971	CONC CURB & GUTTER/ 8X30TP2	\$68,944.95
0070	441-6740	563.67	LF	\$21.48702	CONC CURB & GUTTER/ 8X30 TP7	\$12,111.67
0075	441-0754	1338.97	SY	\$49.05426	CONC MEDIAN, 7 1/2 IN	\$65,682.13
0085	621-4022	182.50	LF	\$552.15000	CONCRETE SIDE BARRIER, TY 2B	\$100,767.38
0089	641-1100	324.00	LF	\$66.65082	GUARDRAIL, TP T	\$21,594.87
0090	641-1200	84.00	LF	\$22.48414	GUARDRAIL, TP W	\$1,888.67
0094	641-5001	1.00	EA	\$963.73483	GUARDRAIL ANCHORAGE, TP 1	\$963.73
0095	641-5012	2.00	EA	\$2,241.04664	GUARDRAIL ANCHORAGE, TP 12	\$4,482.09
0100	430-0200	496.08	SY	\$35.00000	PLN PC CONC PVMT/CL1C/ 10 TK	\$17,362.70
0105	441-4020	60.00	SY	\$42.65809	CONC VALLEY GUTTER, 6 IN	\$2,559.49
ROADWAY Total						\$1,460,794.16

0020 - DRAINAGE

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0110	668-2100	20.00	EA	\$1,962.79931	DROP INLET, GP 1	\$39,255.99
0115	668-1100	7.00	EA	\$2,572.24161	CATCH BASIN, GP 1	\$18,005.69
0120	550-4224	6.00	EA	\$677.42151	FLARED END SECT 24 IN, ST DR	\$4,064.53
0125	550-4118	6.00	EA	\$410.43473	FLARED END SECT 18 IN, SIDE DR	\$2,462.61
0128	550-4124	2.00	EA	\$536.63975	FLARED END SECT 24 IN, SIDE DR	\$1,073.28
0129	550-4218	1.00	EA	\$680.60270	FLARED END SECT 18 IN, ST DR	\$680.60
0130	550-1180	1400.00	LF	\$43.48994	STM DR PIPE 18,H 1-10	\$60,885.92
0135	550-1240	700.00	LF	\$49.86085	STM DR PIPE 24,H 1-10	\$34,902.60
0140	550-2180	260.00	LF	\$31.29324	SIDE DR PIPE 18,H 1-10	\$8,136.24
0144	550-2240	27.00	LF	\$41.17052	SIDE DR PIPE 24,H 1-10	\$1,111.60
DRAINAGE Total						\$170,579.06

0030 - EROSION CONTROL

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0145	165-0030	900.00	LF	\$0.64859	MAINT OF TEMP SILT FENCE, TP C	\$583.73
0150	171-0030	1800.00	LF	\$3.42173	TEMPORARY SILT FENCE, TYPE C	\$6,159.11
0155	163-0527	25.00	EA	\$383.99193	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$9,599.80
0160	165-0041	300.00	LF	\$7.14972	MAINT OF CHECK DAMS - ALL TYPES	\$2,144.92
0165	163-0550	33.00	EA	\$181.76673	CONS & REM INLET SEDIMENT TRAP	\$5,998.30
0170	165-0105	33.00	EA	\$53.65022	MAINT OF INLET SEDIMENT TRAP	\$1,770.46
0175	165-0085	5.00	EA	\$137.79132	MAINT OF SILT CONTROL GATE, TP 1	\$688.96
0180	163-0501	5.00	EA	\$622.92563	CONSTR AND REMOVE SILT CONTROL GATE,TP 1	\$3,114.63
0185	711-0100	1640.00	SY	\$3.00000	TURF REINFORCING MATTING, TP 1	\$4,920.00
0190	716-2000	4800.00	SY	\$1.20137	EROSION CONTROL MATS, SLOPES	\$5,766.58
0195	163-0300	8.00	EA	\$1,520.95081	CONSTRUCTION EXIT	\$12,167.61
0200	165-0101	8.00	EA	\$546.45501	MAINT OF CONST EXIT	\$4,371.64
0205	163-0520	230.00	LF	\$17.63734	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$4,056.59
0210	700-9300	1800.00	SY	\$6.31180	SOD	\$11,361.24
0215	700-6910	2.00	AC	\$875.24521	PERMANENT GRASSING	\$1,750.49
0220	163-0240	47.00	TN	\$292.06347	MULCH	\$13,726.98
0225	163-0232	1.00	AC	\$228.02524	TEMPORARY GRASSING	\$228.03
0230	700-7000	6.00	TN	\$74.03534	AGRICULTURAL LIME	\$444.21
0235	700-8000	1.00	TN	\$637.40949	FERTILIZER MIXED GRADE	\$637.41
0240	700-8100	100.00	LB	\$3.01867	FERTILIZER NITROGEN CONTENT	\$301.87
0245	603-2018	200.00	SY	\$46.12000	STN DUMPED RIP RAP, TP 1, 18	\$9,224.00
0250	603-7000	200.00	SY	\$4.68958	PLASTIC FILTER FABRIC	\$937.92
EROSION CONTROL Total						\$99,954.48

0040 - SIGNING AND MARKING

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0255	636-1072	480.00	SF	\$25.54605	HWY SIGNS,ALUM EXTRD PNLs, RS TP 3	\$12,262.10
0260	636-3000	3500.00	LB	\$5.28000	GALV STEEL STR SHAPE POST	\$18,480.00
0265	636-1033	430.00	SF	\$13.72269	HWY SIGNS, TP1MAT,REFL SH TP 9	\$5,900.76
0270	636-2070	1600.00	LF	\$6.85183	GALV STEEL POSTS, TP 7	\$10,962.93
0275	653-0296	4.00	EA	\$25.00000	THERMO PVMT MARKING,WORD,TP 15	\$100.00
0280	653-1501	2880.00	LF	\$0.71094	THERMO SOLID TRAF ST 5 IN, WHI	\$2,047.51
0285	653-1502	2520.00	LF	\$0.54562	THERMO SOLID TRAF ST, 5 IN YEL	\$1,374.96
0290	653-3501	310.00	GLF	\$0.44935	THERMO SKIP TRAF ST, 5 IN, WHI	\$139.30
0295	653-1804	1610.00	LF	\$2.06292	THERM SOLID TRAF STRIPE, 8,WH	\$3,321.30
0300	653-1704	20.00	LF	\$7.10160	THERM SOLID TRAF STRIPE,24,WH	\$142.03
0305	653-6004	170.00	SY	\$3.72458	THERM TRAF STRIPING, WHITE	\$633.18
0310	653-6006	85.00	SY	\$3.91486	THERM TRAF STRIPING, YELLOW	\$332.76
0315	654-1001	20.00	EA	\$4.72152	RAISED PVMT MARKERS TP 1	\$94.43
0320	654-1003	4.00	EA	\$4.96260	RAISED PVMT MARKERS TP 3	\$19.85
SIGNING AND MARKING Total						\$55,811.11

0050 - LIGHTING

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0325	500-3101	8.00	CY	\$766.46836	CLASS A CONCRETE	\$6,131.75
0330	511-1000	1970.00	LB	\$1.20937	BAR REINF STEEL	\$2,382.46
0335	682-9950	420.00	LF	\$8.00000	DIRECTIONAL BORE -	\$3,360.00
0340	681-0525	12.00	EA	\$2,903.75000	LTG STD, ST, 25 FT MH	\$34,845.00
0345	681-5115	12.00	EA	\$835.16000	LUMIN BRACKET ARM, 15 FT ARM	\$10,021.92
0350	681-6900	12.00	EA	\$1,288.73000	LUMINAIRE -	\$15,464.76
0355	682-1403	7060.00	LF	\$2.08000	CABLE, TP XHHW, AWG NO 12	\$14,684.80

LINE NUMBER	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0360	682-6219	1000.00	LF	\$6.97643	CONDUIT, NONMETL, TP 2, 1 IN	\$6,976.43
0365	682-6230	620.00	LF	\$2.87000	CONDUIT, NONMETL, TP 3, 1 IN	\$1,779.40
0370	682-9000	1.00	LS	\$9,415.48000	MAIN SVC PICK UP POINT	\$9,415.48
LIGHTING Total						\$105,062.00

TOTALS FOR JOB 0009948

ITEMS COST:	\$1,910,530.81
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$1,910,530.81
CONTINGENCY PERCENT:	10.00%
ENGINEERING AND INSPECTION:	0.00%
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$2,101,583.89

File Location: Div of Preconstruction > CES

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distribution/retransmission of taking of any action in reliance upon the material in this document is strictly forbidden.

PROJ. NO. [REDACTED]
 P.I. NO. 0009948
 DATE 9/1/2016

CALL NO. 0/00/2016

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Aug-16	\$ 1.989
DIESEL		\$ 2.299
LIQUID AC		\$ 348.00

Link to AC Index:
<http://www.dot.ga.gov/PS/Materials/AsphaltFuelIndex>

LIQUID AC ADJUSTMENTS

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

Asphalt

Price Adjustment (PA)				42219.36	\$	42,219.36
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	556.80		
Monthly Asphalt Cement Price month project let (APL)			\$	348.00		
Total Monthly Tonnage of asphalt cement (TMT)				202.2		

ASPHALT	Tons	%AC	AC ton
Leveling	1250	5.0%	62.5
12.5 OGFC		5.0%	0
12.5 mm	782	5.0%	39.1
9.5 mm SP		5.0%	0
25 mm SP	1331	5.0%	66.55
19 mm SP	681	5.0%	34.05
	4044		202.2

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$ 717.45	\$	717.45
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	556.80		
Monthly Asphalt Cement Price month project let (APL)			\$	348.00		
Total Monthly Tonnage of asphalt cement (TMT)				3.436080738		

Bitum Tack

Gals	gals/ton	tons
800	232.8234	3.43608074

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				2615.226201	\$	2,615.23
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	556.80		
Monthly Asphalt Cement Price month project let (APL)			\$	348.00		
Total Monthly Tonnage of asphalt cement (TMT)				12.5250297		

Bitum Tack	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.	3299	0.20	659.8	232.8234	2.833907588
Double Surf.Trmt.	5128	0.44	2256.32	232.8234	9.691122112
Triple Surf. Trmt		0.71	0	232.8234	0
					12.5250297

TOTAL LIQUID AC ADJUSTMENT \$ 45,552.04

GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY

Date: 9/12/2014 Project: 0009948
 Revised: County: Lumpkin County
 PI: 0009948

Description: SR 52 @ SR 115/CR 41/Cooper Mine Rd
 Project Termini: SR 52 @ SR 115/CR 41/Cooper Mine Rd

Existing ROW:
 Required ROW:
 Parcels: 4

Land and Improvements _____ \$652,500.00

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$75,000.00

Valuation Services _____ \$25,000.00

Legal Services _____ \$40,200.00

Relocation _____ \$8,000.00

Demolition _____ \$0.00

Administrative _____ \$35,500.00

TOTAL ESTIMATED COSTS _____ \$761,200.00

TOTAL ESTIMATED COSTS (ROUNDED) _____ \$762,000.00

Preparation Credits	Hours	Signature

Prepared By: Deshone Alexander CG#: 286999 09/12/2014 (DATE)

Approved By: Deshone Alexander CG#: 286999 09/12/2014 (DATE)

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

NOTICE OF LOCATION AND DESIGN APPROVAL

Lumpkin County P. I. 0009948

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location and design approval is: October 11, 2016

SR 52@SR 115/ CR41 /Copper Mines Road project consists of replacing the existing four-way stop intersection with a single lane roundabout including a right turn bypass lane at one leg. The project is located in Lumpkin County in Land Lot 95 and Land District 1.

The project begins on SR52/115 950 ft. south of the intersection with SR 52, SR 115 and Copper Mines Road/CR 41 at MP 6.65 and ends 1110 ft. north of the intersection on SR 115 at MP 7.04 for a total project length of 0.39 miles. The project limits along SR 52 are located approximately 970 ft. east of the intersection and 780 ft. west of the intersection for Copper Mines Road/CR 41. The project proposes improving the intersection of SR52/115, SR 52, SR 115 and Copper Mines Road/CR 41. This includes a single lane roundabout with an elliptical 196 ft. x 136 ft. inscribed diameter. A right turn bypass lane within the acute intersection angle of SR 52 WB with SR 115 NB will be realigned to have a larger radii and a wider lane width. Crosswalks will be placed on all four legs of the roundabout with refuges located within the splitter islands and the right turn bypass lane to improve the conveyance of pedestrians. Sidewalks will also be placed on all four legs of the roundabout.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Matt Needham, Area Engineer
mneedham@dot.ga.gov
942 Albert Reid Rd
Cleveland, GA 30528
(706) 348-4848

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Albert V. Shelby III
Program Delivery
Attn: Merishia Robinson, E.I.T.
mrobinson@dot.ga.gov
600 West Peachtree St., NW 25th Floor
Atlanta, GA 30308
(404) 631-1710

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.