

**DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA**

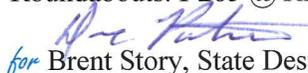
**OFFICE OF DESIGN POLICY & SUPPORT  
INTERDEPARTMENTAL CORRESPONDENCE**

**FILE** P.I. #0010925

**OFFICE** Design Policy & Support

Fulton County  
GDOT District 7 - Metro Atlanta  
Roundabouts: I-285 @ Riverside Drive

**DATE** 3/19/2015

**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:**

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  
Richard Cobb, Location Bureau Chief  
Kathy Zahul, District Engineer  
Scott Lee, District Preconstruction Engineer  
Kevin Cowan, District Planning & Programming Engineer  
Sebastian Nesbitt, Area Engineer - D7, A2  
Marlo Clowers, Project Manager  
BOARD MEMBER - 6th & 11th Congressional Districts

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

FILE P.I. #0010925, Fulton County  
I-285 at Riverside Drive Roundabouts

OFFICE Innovative Delivery

DATE February 26, 2015

FROM   
Darryl D. VanMeter, P.E., State Innovative Delivery Engineer

TO Brent Story, P.E., State Design Policy Engineer

SUBJECT **Request for Location and Design Approval**

**Description and Project Proposal:** The proposed Design-Build project is located on Riverside Drive at the interchange with I-285 in Fulton County Georgia and is within the city limits of Sandy Springs. The project consists of safety improvements to the existing interchange which convert the two existing signalized intersections at each ramp terminal with roundabouts. The proposed typical section includes two 12 foot lanes which to accommodate the roundabouts. Both roundabouts' inscribed diameter is 60 feet. The project begins 340 feet south of the current eastbound exit/entrance ramps and ends 160 feet north of Coldstream Court.

**Concept Approval Date:** 10/8/2014

**Concept Update:** N/A

**Environmental Document:**

Document Type: Categorical Exclusion

Approval Date: 2/3/2015

**Temporary State Route Needed:**  No  Yes  Undetermined

**Public Involvement:** A Public Information Open House was held on March 25, 2014 at Sandy Springs City Hall from 6 PM to 8 PM.

Approximately 60 people attended the meeting. Of the 31 comments received at the meeting and during the 10-day comment period, six comments were in favor of the project, one was conditionally in favor of the project, five were uncommitted and 19 were against the project. During the open house, several attendees spoke out against the project. These verbal comments consisted of doubt that roundabouts would work better than the current signalized intersections, concern that traffic would queue out on the mainline I-285, and that traffic trying to make right or left turns from the exit ramps would not get a break in traffic flow during peak hours from the cars traveling through the roundabout. A comment response letter was distributed on September 4, 2014.

GDOT received an additional 83 comments via email. Of these additional comments, eight were in support of the project, three were uncommitted, and 72 were opposed. These additional comments

Location and Design Report

P.I. # 0010925

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carried common themes of perception that the project would add capacity and bring additional traffic, that the project was being proposed to assist Cobb County commuters, the public inability to navigate roundabouts, that the project would bring more traffic through neighborhood streets and concern that residents would not be able to safely turn out of neighborhoods. To ensure that all of the comments received were responded to, an additional response letter was developed. This additional letter included the information contained within the original September 4, 2014 response letter, as well as any new comments that were not previously addressed.

No significant project changes were made as a result of public comments received

**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.

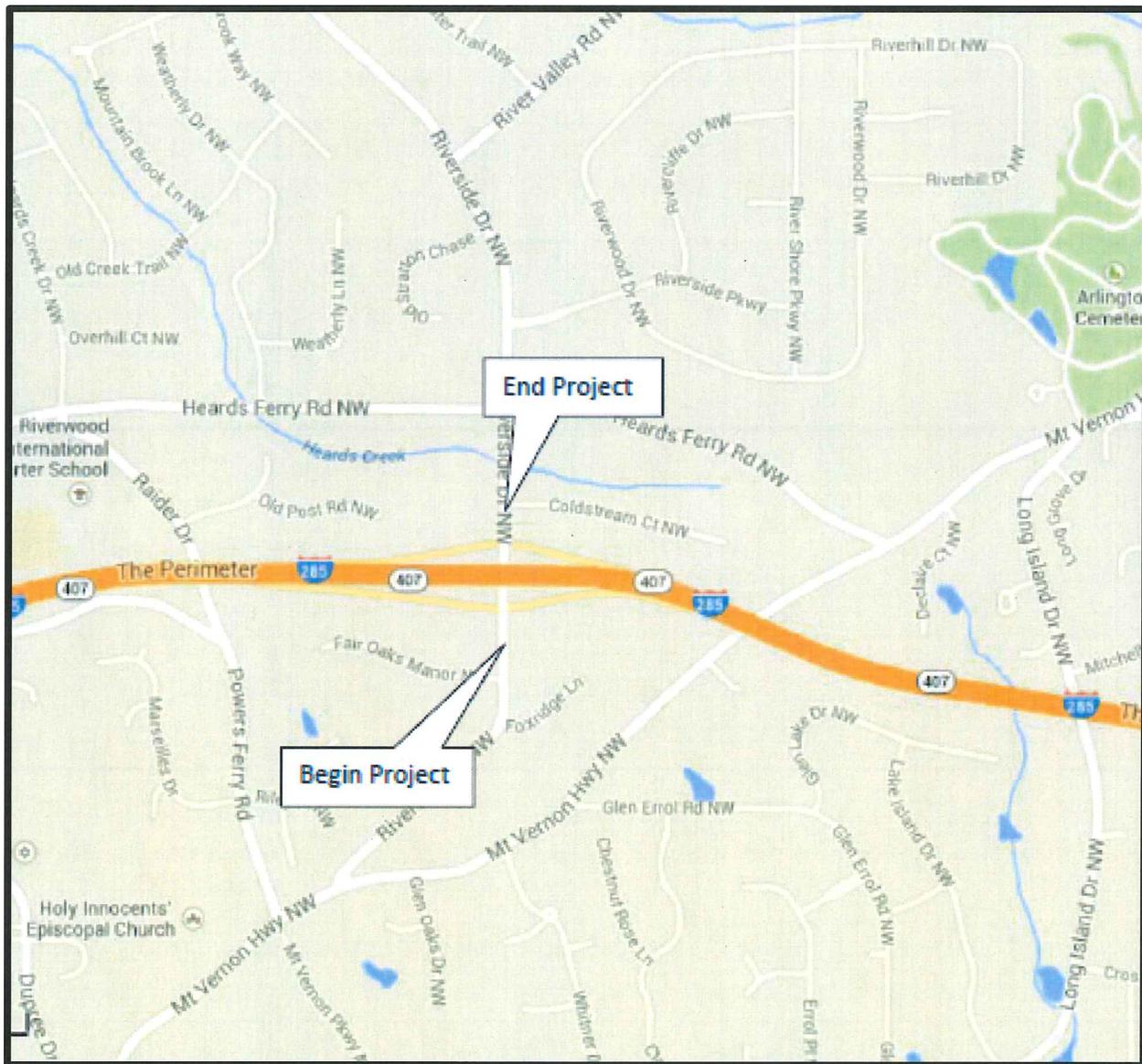
**Concur:** *Mike Bonn*  
GDOT Director of Engineering

**Approve:** *Margaret B. Pickle* *3.18.15*  
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: *March 19, 2015*  
(To be entered by State Conceptual Design Group Manager)

- Attachments:
- Sketch Sketch
  - Notice of Location and Design Approval
  - *Oct, 2014 Approved Concept Report Cost Estimate*

## LOCATION SKETCH



**NOTICE OF LOCATION AND DESIGN APPROVAL**  
**FULTON COUNTY**  
**P. I. # 0010925**

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: March 19, 2015

The proposed Design-Build project consists of safety improvements of Riverside Drive at the interchange with I-285 in Fulton County Georgia and is within the city limits of Sandy Springs, Land District 17, Land Lots 133 & 166.

The project will convert the two existing signalized intersections at each ramp terminal with roundabouts. The proposed typical section includes two 12 foot lanes which widen to accommodate the roundabouts. Both roundabouts' inscribed diameter is 60 feet. The project begins 340 feet south of the current eastbound exit/entrance ramps and ends 160 feet north of Coldstream Court.

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:

Sabastian Nesbitt, Area 2 Engineer  
[snesebitt@dot.ga.gov](mailto:snesebitt@dot.ga.gov)  
1269 Kennestone Cir  
Marietta, GA 30066  
(770) 528-3238

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:

Darryl D. VanMeter, P.E., State Innovative Delivery Engineer  
[dvanmeter@dot.ga.gov](mailto:dvanmeter@dot.ga.gov)  
600 West Peachtree Street, 19<sup>th</sup> floor  
Atlanta, GA 30308  
(404) 631-1703

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.

0010925 Cost Estimate Summary

<b>Summary of Cost Estimates</b>	
<b>Construction</b>	
Construction Cost	\$3,464,706.56
Design-Build Contingency (15%)	\$519,705.99
E&I (5%)	\$173,235.33
Liquid Asphalt Adjustment	\$114,013.92
<b>Total Construction</b>	<b>\$4,271,661.80</b>
<b>Right-of-Way</b>	<b>\$310,000.00</b>
<b>Utilities (Reinb.)</b>	<b>\$363,300.00</b>
<b>PE</b>	<b>\$962,138.00</b>
<b>Total Project Cost</b>	<b>\$5,907,099.80</b>

DATE : 09/25/2014  
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JOB DETAIL ESTIMATE

JOB NUMBER : 0010925      SPEC YEAR: 01  
DESCRIPTION: I 285 AT RIVERSIDE DR

ITEMS FOR JOB 0010925

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - PI 0010925	1.000	30000.00	30000.00
0010	210-0100		LS	GRADING COMPLETE - PI 0010925	1.000	40000.00	40000.00
0015	310-1101		TN	GR AGGR BASE CRS, INCL MATL	3500.000	22.50	78750.00
0024	310-5060		SY	GR AGGR BS CRS 6IN INCL MATL	390.000	16.00	6240.00
0025	402-1812		TN	RECYL AC LEVELING, INC BM&HL	3200.000	92.96	297472.00
0030	402-3121		TN	RECYL AC 25MM SP, GP1/2, BM&HL	1700.000	82.47	140199.00
0035	402-3130		TN	RECYL AC 12.5MM SP, GP2, BM&HL	690.000	91.11	62865.90
0040	402-3190		TN	RECYL AC 19 MM SP, GP 1 OR 2 , INC BM&HL	670.000	86.02	57633.40
0045	413-1000		GL	BITUM TACK COAT	740.000	3.80	2812.00
0050	432-5010		SY	MILL ASPH CONC PVMT, VARB DEPTH	3200.000	3.90	12480.00
0055	439-0020		SY	PLN PC CONC PVMT CL3 9" THK	2700.000	72.50	195750.00
0059	441-0016		SY	DRIVEWAY CONCRETE, 6 IN TK	49.000	44.30	2170.70
0060	441-0104		SY	CONC SIDEWALK, 4 IN	1300.000	34.45	44785.00
0065	441-0748		SY	CONC MEDIAN, 6 IN	410.000	53.55	21955.50
0070	441-3999		LF	CONCRETE V GUTTER	530.000	21.30	11289.00
0072	441-5010		LF	CONC HDR CURB, 6 IN, TP 9	650.000	10.00	6500.00
0073	441-5007		LF	CONC HEADER CURB, 8 IN, TP 7	1600.000	26.26	42016.00
0074	441-5004		LF	CONC HEADER CURB, 10", TP 4	63.000	8.35	526.22
0075	441-6222		LF	CONC CURB & GUTTER/ 8"X30"TP2	4100.000	15.35	62935.00
0081	999-2010		LS	DESIGN COMPLETE	1.000	34800.60	34800.60
0082	158-1000		HR	TRAINING HOURS	4000.000	0.80	3200.00
0083	150-9011		HR	TR CT-WORKZONE LAW ENF-CTR BIDS	5000.000	48.76	243841.55
0084	001-5000		*	UTILITY CONTINGENCY	1.000	363300.00	363300.00
0085	446-1100		LF	PVMT REF FAB STRIPS, TP2, 18 INCH WIDTH	3158.000	8.00	25264.00
0090	500-3101		CY	CLASS A CONCRETE	1.000	462.81	462.81
0095	500-3201		CY	CL B CONC, RET WALL	257.000	510.00	131070.00
0099	500-3800		CY	CL A CONC, INCL REINF STEEL	10.000	950.00	9500.00
0100	500-9999		CY	CL B CONC, BASE OR PVMT WIDEN	24.000	211.00	5064.00
0105	550-1180		LF	STM DR PIPE 18", H 1-10	475.000	46.90	22277.50
0125	550-4118		EA	FLARED END SECT 18 IN, SIDE DR	2.000	425.00	850.00
0130	600-0001		CY	FLOWABLE FILL	50.000	265.05	13252.50
0135	610-0810		SF	REMOVE SOUND BARRIER	3235.000	10.00	32350.00
0140	610-1055		LF	REM GUARDRAIL	420.000	7.00	2940.00
0145	610-1075		EA	REM GUARDRAIL ANCH, ALL TYPES	9.000	400.00	3600.00
0148	610-5705		EA	REM CATCH BASIN	3.000	500.00	1500.00
0149	610-0959		LF	REMOVE PIPE - PI 0010925	15.000	6.50	97.50
0154	611-3000		EA	RECONSTR CATCH BASIN, GROUP 1	2.000	2150.00	4300.00
0159	611-3010		EA	RECONSTR DROP INLET, GROUP 1	2.000	2400.00	4800.00
0164	624-0400		SF	SOUND BARRIER, TYPE- PI 0010925	3214.000	30.00	96420.00
0169	641-1100		LF	GUARDRAIL, TP T	302.000	64.00	19328.00
0174	641-1200		LF	GUARDRAIL, TP W	1043.000	18.20	18988.36

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JOB DETAIL ESTIMATE

0179	641-5001	EA	GUARDRAIL ANCHORAGE, TP 1	4.000	880.00	3520.00
0184	641-5006	EA	GUARDRAIL ANCHORAGE, TP 6	4.000	630.00	2520.00
0189	641-5012	EA	GUARDRAIL ANCHORAGE, TP 12	5.000	2300.00	11500.00
0192	647-2500	LS	QUEUE DETECTION AND WARNING SYSTEM	1.000	40000.00	40000.00
0193	647-0200	LS	TRAF DETECT LOOP SYSTEM, NO- PI 0010925-NO. 1	1.000	7000.00	7000.00
0194	643-1152	LF	CH LK FEN, ZC COAT, 6', 9 GA	78.000	101.24	7896.85
0199	441-5002	LF	CONC HEADER CURB, 6", TP 2	260.000	12.80	3330.09
0204	668-1100	EA	CATCH BASIN, GP 1	6.000	2500.00	15000.00
0209	668-1110	LF	CATCH BASIN, GP 1, ADDL DEPTH	12.000	190.00	2280.00
0214	668-2100	EA	DROP INLET, GP 1	4.000	2450.00	9800.00
0219	668-2110	LF	DROP INLET, GP 1, ADDL DEPTH	6.000	230.00	1380.00
0224	766-7020	LS	IRRIGATION SYSTEM IRRIGATION SYSTEM FOR ROUNDBOUT	1.000	6500.00	6500.00
0229	766-7020	LS	IRRIGATION SYSTEM IRRIGATION SYSTEM FOR ROUNDBOUT	1.000	6500.00	6500.00
0234	207-0203	CY	FOUND BKFILL MATL, TP II	58.000	60.50	3509.00
0239	163-0232	AC	TEMPORARY GRASSING	3.000	600.00	1800.00
0244	163-0240	TN	MULCH	71.000	210.00	14910.00
0249	163-0300	EA	CONSTRUCTION EXIT	2.000	1500.00	3000.00
0254	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	11.000	150.00	1650.00
0259	165-0010	LF	MAINT OF TEMP SILT FENCE, TP A	370.000	0.86	319.22
0264	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	1500.000	0.75	1136.93
0269	165-0101	EA	MAINT OF CONST EXIT	2.000	487.57	975.15
0274	165-0105	EA	MAINT OF INLET SEDIMENT TRAP	11.000	32.64	359.09
0279	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	1.000	350.00	350.00
0284	167-1500	MO	WATER QUALITY INSPECTIONS	12.000	700.00	8400.00
0289	171-0010	LF	TEMPORARY SILT FENCE, TYPE A	700.000	1.65	1156.82
0294	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	2900.000	3.00	8700.00
0299	603-2180	SY	STN DUMPED RIP RAP, TP 3, 12"	50.000	64.80	3240.00
0304	603-7000	SY	PLASTIC FILTER FABRIC	50.000	4.80	240.00
0309	700-6910	AC	PERMANENT GRASSING	5.000	1250.00	6250.00
0314	700-7000	TN	AGRICULTURAL LIME	10.000	70.00	700.00
0319	700-8000	TN	FERTILIZER MIXED GRADE	5.000	600.00	3000.00
0324	700-8100	LB	FERTILIZER NITROGEN CONTENT	242.000	3.50	847.00
0329	700-9300	SY	SOD	467.000	5.80	2708.60
0334	702-0180	EA	CORNUS FLORIDA - PI 0010925	7.000	500.00	3500.00
0339	702-0470	EA	ILEX VOMITORIA NANA - PI 0010925	194.000	40.00	7760.00
0344	702-9005	LB	SPRING APPLICATION FERTILIZER	126.000	8.00	1008.00
0349	702-9025	SY	LANDSCAPE MULCH	294.000	6.50	1911.00
0354	716-2000	SY	EROSION CONTROL MATS, SLOPES	1500.000	1.35	2025.00
0359	615-1100	LF	DIRECTIONAL BORE PIPE - 3 INCH	355.000	26.00	9230.00
0364	636-1020	SF	HWY SGN, TP1MAT, REFL SH TP3	122.000	15.00	1830.00
0369	636-1029	SF	HWY SGN, TP2 MATL, REFL SH TP 3	338.000	21.00	7098.00
0374	636-1033	SF	HWY SIGNS, TP1MAT, REFL SH TP 9	438.000	19.00	8322.00
0379	636-2070	LF	GALV STEEL POSTS, TP 7	1236.000	8.00	9888.00
0384	636-2090	LF	GALV STEEL POSTS, TP 9	245.000	9.50	2327.50
0389	636-3010	EA	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	14.000	450.00	6300.00
0394	647-1000	LS	TRAF SIGNAL INSTALLATION NO - PI 0010925	1.000	46800.00	46800.00
0399	647-1000	LS	TRAF SIGNAL INSTALLATION NO - PI 0010925	1.000	47800.00	47800.00

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JOB DETAIL ESTIMATE

0404	647-1000	LS	TRAF SIGNAL INSTALLATION NO - PI 0010925	1.000	5000.00	5000.00
0409	647-1000	LS	TRAF SIGNAL INSTALLATION NO - PI 0010925	1.000	5000.00	5000.00
0414	647-2120	EA	PULL BOX, PB-2	1.000	715.00	715.00
0419	653-0120	EA	THERM PVMT MARK, ARROW, TP 2	6.000	92.00	552.00
0424	653-0130	EA	THERM PVMT MARK, ARROW, TP 3	6.000	110.00	660.00
0429	653-0210	EA	THERM PVMT MARK, WORD , TP 1	6.000	140.00	840.00
0434	653-0296	EA	THERMO PVMT MARKING, WORD, TP 15	10.000	180.00	1800.00
0439	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	3775.000	0.65	2453.75
0444	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	2475.000	0.65	1608.75
0449	653-1504	LF	THERM SOLID TRAF STRIPE, 12", WH	1237.000	4.00	4948.00
0454	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	578.000	0.55	317.90
0459	653-6004	SY	THERM TRAF STRIPING, WHITE	493.000	5.10	2514.30
0464	653-6006	SY	THERM TRAF STRIPING, YELLOW	146.000	4.40	642.40
0469	654-1001	EA	RAISED PVMT MARKERS TP 1	16.000	9.00	144.00
0474	654-1003	EA	RAISED PVMT MARKERS TP 3	20.000	8.00	160.00
0479	655-5000	EA	PVMT ARROW THERM W/R REFLECTOR	1.000	430.00	430.00
0484	449-1375	LF	PRFM SILICONE JT SL W/EP CONC HD, BR NO PI 0010925	121.000	175.00	21175.00
0489	461-2000	LF	RESEALING BRIDGE JOINTS, TP - PI 0010925	81.000	45.00	3645.00
0494	519-0515	SY	SURFACE PREPARATION	795.000	11.00	8745.00
0499	519-0530	SY	POLYMER OVERLAY	795.000	49.00	38955.00
0504	521-3000	SF	PATCHING CONCRETE BRIDGE	16.000	385.00	6160.00
0509	615-1200	LF	DIRECTIONAL BORE - 2 INCH	895.000	13.00	11635.00
0514	681-4155	EA	LT STD, 15' MH, 2' ARM	8.000	2800.00	22400.00
0519	681-6309	EA	LUMINAIRE, TP 3, 70 W, LED	8.000	750.00	6000.00
0524	681-3600	EA	LIGHTING STD, SPCL DES	19.000	4400.00	83600.00
0529	681-6900	EA	LUMINAIRE - TP 3, 135 W, LED	19.000	1200.00	22800.00
0534	682-1404	LF	CABLE, TP XHHW, AWG NO 10	10930.000	0.95	10383.50
0539	682-6222	LF	CONDUIT, NONMETL, TP 2, 2 IN	2025.000	6.50	13162.50
0544	682-6225	LF	CONDUIT, NONMETL, TP 2, 2 1/2 IN	100.000	9.50	950.00
0549	682-6233	LF	CONDUIT, NONMETL, TP 3, 2 IN	895.000	3.80	3401.00
0554	682-9000	LS	MAIN SVC PICK UP POINT	1.000	12000.00	12000.00
0559	682-9000	LS	MAIN SVC PICK UP POINT	1.000	12000.00	12000.00
0564	682-9022	EA	ELEC JCT BX, REF PLASTIC MORTAR	4.000	775.00	3100.00
0569	647-2140	EA	PULL BOX, PB-4	6.000	1250.00	7500.00
0574	647-2170	EA	PULL BOX, PB-7	5.000	1400.00	7000.00
0579	682-9950	LF	DIRECTIONAL BORE - RAMP METER INSTALLATION	500.000	15.00	7500.00
0584	935-4010	EA	FIBER OPTIC SPLICE, FUSION	180.000	31.00	5580.00
0589	657-1085	LF	PRF PL SD PVT MKG, 8", B/W, TP PB	522.000	6.60	3445.20
0594	657-6085	LF	PRF PL SD PVMT MKG, 8", B/Y, TPPB	522.000	6.60	3445.20
0599	682-9028	EA	ELECTRICAL COMM BOX, TP 5	6.000	6000.00	36000.00
0604	935-1116	LF	OUT PLNT FBR OPT CBL, LOOSE TB, SM, 72 FBR	669.000	1.70	1137.30
0609	935-1512	LF	OUT PLNT FBR OPT CBL, DROP, SM, 12 FBR	680.000	1.50	1020.00
0614	935-1513	LF	OUT PLNT FBR OPT CBL, DROP, SM, 24 FBR	873.000	1.50	1309.50
0619	935-3103	EA	FIBER OPTIC CLOSURE, UNDRGRD, 24 FBR	1.000	750.00	750.00
0624	935-3106	EA	FIBER OPTIC CLOSURE, UNDRGRD, 72 FIBER	2.000	825.00	1650.00
0629	939-5010	EA	ELEC PWR SVC ASSEMBLY, AERIAL SVC POINT	2.000	3000.00	6000.00
0634	441-0204	SY	PLAIN CONC DITCH PAVING, 4 IN	150.000	31.37	4706.47

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JOB DETAIL ESTIMATE

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ITEM TOTAL	3828006.56
INFLATED ITEM TOTAL	3828006.56

TOTALS FOR JOB 0010925

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ESTIMATED COST:	3828006.56
DESIGN CONTINGENCY ( 15.0 ):	574200.98
E&I ( 5.0 ):	220110.38
ESTIMATED TOTAL:	4622317.92

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PROJ. NO. N/A  
P.I. NO. 0010925  
DATE 9/25/2014

CALL NO. 9/29/2009

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Sep-14	\$ 3.335
DIESEL		\$ 3.765
LIQUID AC		\$ 601.00

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)				<b>112867.8</b>		<b>\$ 112,867.80</b>
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	961.60		
Monthly Asphalt Cement Price month project let (APL)			\$	601.00		
Total Monthly Tonnage of asphalt cement (TMT)				313		

ASPHALT	Tons	%AC	AC ton
Leveling	3200	5.0%	160
12.5 OGFC		5.0%	0
12.5 mm	690	5.0%	34.5
9.5 mm SP		5.0%	0
25 mm SP	1700	5.0%	85
19 mm SP	670	5.0%	33.5
	<b>6260</b>		<b>313</b>

**BITUMINOUS TACK COAT**

Price Adjustment (PA)				<b>\$ 1,146.12</b>		<b>\$ 1,146.12</b>
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	961.60		
Monthly Asphalt Cement Price month project let (APL)			\$	601.00		
Total Monthly Tonnage of asphalt cement (TMT)				3.178374682		

Bitum Tack

Gals	gals/ton	tons
740	232.8234	3.17837468

**BITUMINOUS TACK COAT (surface treatment)**

Price Adjustment (PA)				<b>0</b>		<b>\$ -</b>
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	961.60		
Monthly Asphalt Cement Price month project let (APL)			\$	601.00		
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 \$ 114,013.92**



