

ORIGINAL TO GENERAL FILES

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #713290-
IMNH0-0285-01(354)
GDOT District 7 - Metro Atlanta
DeKalb County
I-285@SR 155/Flat Shoals Road

OFFICE Design Policy & Support

DATE March 15, 2012

Kim Phillips
FROM *for* Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED CONCEPT REPORT

Attached is the approved Revised Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Genetha Rice-Singleton, Program Control Administrator
Bobby Hilliard, State Program Delivery Engineer
Cindy VanDyke, State Transportation Planning Administrator
Angela Robinson, Financial Management Administrator
Glenn Bowman, State Environmental Administrator
Ben Rabun, State Bridge Engineer
Andy Casey, State Roadway Design Engineer
Attn: Sam Woods, Design Group Manager
Kathy Zahul, State Traffic Engineer
Georgene Geary, State Materials & Research Engineer
Lisa Myers, State Project Review Engineer
Jeff Baker, State Utilities Engineer
Ken Thompson, Statewide Location Bureau Chief
Bryant Poole, District Engineer
Scott Lee, District Preconstruction Engineer
Jonathan Walker, District Utilities Engineer
Karyn Matthews, Project Manager
BOARD-MEMBER - 4th Congressional District

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

Project Type:	<u>Interchange Reconstruction</u>	P.I. Number:	<u>713290-</u>
GDOT District:	<u>7</u>	County:	<u>DeKalb</u>
Federal Route Number:	<u>I-285</u>	State Route Number:	<u>155;407</u>

This revised concept report adds noise walls to the project. The addition of the noise walls shifts the beginning of the project to the west along I-285 approximately 0.43 miles; the end to the east along I-285 approximately 0.15 miles. The addition of approximately 0.58 miles results in an overall project length of 1.56 miles. Construction of the noise walls in the vicinity of the I-285 with SR 155 Interchange was to be accomplished under Project PI 0006459, DeKalb County.

Submitted for approval

<u><i>C. Andy Gray</i></u> State Roadway Design Engineer	<u>2/8/12</u> DATE
<u><i>Michael Hester</i></u> State Program Delivery Engineer	<u>2/8/12</u> DATE
<u><i>K. J. Lutt</i></u> GDOT Project Manager	<u>2/8/2012</u> DATE

Recommendation for approval:

* <u><i>Glenn Bowman / KLP</i></u> State Environmental Administrator	<u>2-9-12</u> DATE
* <u><i>Ben Rabun / KLP</i></u> State Bridge Design Engineer	<u>2-13-12</u> 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><i>Cynthia A. Vause</i></u> State Transportation Planning Administrator	<u>2-13-12</u> DATE
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PLANNING, APPROVED CONCEPT & BACKGROUND DATA

Project Justification Statement: The proposed project would reconstruct the Interchange of I-285 with SR 155 in DeKalb County. The work would include replacing the SR 155 Bridge over I-285. This structure provides substandard vertical clearance for large vehicles traveling along I-285. An increase in commercial development along the SR 155 corridor has resulted in poor traffic operations in the interchange area. Land use along the project corridor consists of commercial, industrial park, and residential development.

The need for the proposed project is to improve traffic operations in the I-285 interchange area. The combination of commercial services, employment opportunities, and transportation access between I-285 and I-20 has generated a traffic demand well above the capacity of the Interchange of I-285 with SR 155.

The project would promote energy conservation by efficiently moving traffic through the interchange area. The purpose of the project is to reduce crash frequency and severity and improve traffic operations. The project is included in the Transportation Improvement Program (FY 2010-2014) of the adopted Atlanta Regional Transportation Plan (TIP Number DK-AR-206).

Description of the approved concept: The proposed project would reconstruct the Interchange of I-285 with SR 155/Flat Shoals Road in DeKalb County. The work would include construction of a new bridge along SR 155 over I-285. The replacement bridge would provide two through lanes in each direction, bike lanes on both sides, and dual, left-turn lanes from SR 155 northbound and southbound onto I-285 eastbound and westbound. The Interstate Exit Ramps would be widened to provide dual, left-turn and dual, right-turn lanes onto SR 155. The Interstate Entrance Ramps would be widened to provide three lanes at the ramp intersections with SR 155. The lanes would taper down to one lane prior to the ramp nose point with I-285. Side barriers would be constructed under the Panthersville Road bridge at I-285 to allow the ramps to be extended without impacting the existing bridge.

PDP Classification: Major Minor

Federal Oversight: Full Oversight Exempt State Funded Other

Projected Traffic ADT as shown in the approved Concept Report:

Roadway Section	ADT ₂₀₁₄	ADT ₂₀₃₄
SR 155 south of I-285	47,600	66,700
SR 155 north of I-285	41,200	57,650
I-285 east of SR 155	191,500	268,250
I-285 west of SR 155	191,700	268,500

Updated Traffic ADT:

Roadway Section	ADT ₂₀₁₈	ADT ₂₀₃₈
SR 155 south of I-285	38,200	53,500
SR 155 north of I-285	36,900	51,600
I-285 east of SR 155	197,800	277,200
I-285 west of SR 155	197,200	276,200

Functional Classification (Mainline): Urban Minor Arterial Street

VE Study anticipated: No Yes Completed – Date: 2/25/2004

PROPOSED REVISIONS

Approved Features:	Proposed Features:
<p>Construction limits along I-285 would begin at MP 48.61, beyond the culvert at Doless Creek and end at MP 47.63, before the bridge over Shoal Creek.</p> <p>The previous concept revision stated that jacking the existing Panthersville Road bridge would be included in this project.</p>	<p>Noise barriers will be added along I-285, where warranted. The walls will extend the project limits along I-285 to begin at MP 49.04 and end at MP 47.48. Final design and public input will determine the exact locations of each wall. No additional right-of-way will be required; the walls will be located within existing right-of-way.</p> <p>The Panthersville Road bridge has already been jacked (under PI# 713820 in 2000). This bridge jacking work is no longer part of this project.</p>
<p>Reason for change: Previously, noise walls were to be constructed under project number 0006459, Noise Walls along I-285 from I-20 to Bouldercrest Road. That project has moved to Long Range status and the NEPA document will require noise walls to be included in this project.</p>	

ENVIRONMENTAL

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

This concept revision does not affect the air quality model from the approved concept report.

Potential environmental impacts of proposed revision: This concept revision is required to comply with the NEPA document. Ecology, history and archeology studies will require updates for the revised project limits, and have already been surveyed. No additional impacts are expected.

Have proposed revisions been reviewed by environmental staff? No Yes

Environmental responsibilities (Studies/Documents/Permits): NEPA, history, archeology: GDOT.
Ecology: Consultant, Air/Noise: Consultant

Environmental impacts by section:

Ecology: The noise walls will be moved from right-of-way line to edge of shoulder to avoid ecology impacts, where necessary. No impacts are expected.

Public Involvement: Noise-specific outreach will be required. Two additional public meetings are expected. The first meeting is scheduled for February 28, 2012 to gauge public interest. A second meeting to vote on the walls will be held during final design.

PROJECT COST & ADDITIONAL INFORMATION

Updated Cost Estimate		Date of Estimate
Base Construction Cost:	\$ 21,835,010.66	February 22, 2012
Engineering and Inspection:	\$ 1,091,750.53	February 22, 2012
Liquid AC Adjustment:	\$ 513,411.56	February 22, 2012
<u>Total Construction Cost:</u>	<u>\$ 23,440,172.75</u>	February 22, 2012
Right-of-Way:	\$ 9,362,000.00	January 30,2102
Utilities (reimbursable costs):	\$ 550,000.00	January 10,2012
Environmental Mitigation	\$0	February 3, 2012
TOTAL PROJECT COST:	\$ 33,352,172.75	

Highway Safety Manual Analysis:

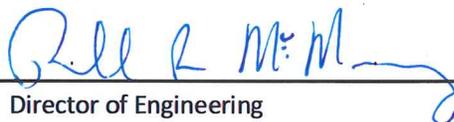
The Highway Safety Manual (HSM) has been referenced for the availability of a Predictive Method analysis using a Safety Performance Function (SPF) with associated Crash Modification Factor(s) (CMF). The revised concept for the interchange on this project is classified by the HSM as an Urban Multilane Arterial. There is a HSM SPF for this facility type; however, the interchange is not included, thus a HSM Predictive Method analysis is of no value. The HSM Volume 3 CMFs were also referenced and there is no CMF that addresses adding sound walls.

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

Attachments:

1. Location Sketch Map
2. Proposed Noise Wall Location Layout
3. Proposed Noise Wall Typical Section Detail
4. Cost Estimate
5. Traffic Diagrams
6. Conforming plan's network schematics showing thru lanes

APPROVALS

Concur: 
Director of Engineering

Approve: 
Chief Engineer

3-12-12
Date

LOCATION SKETCH MAP
IMNHO-0285-01(354), DeKalb County

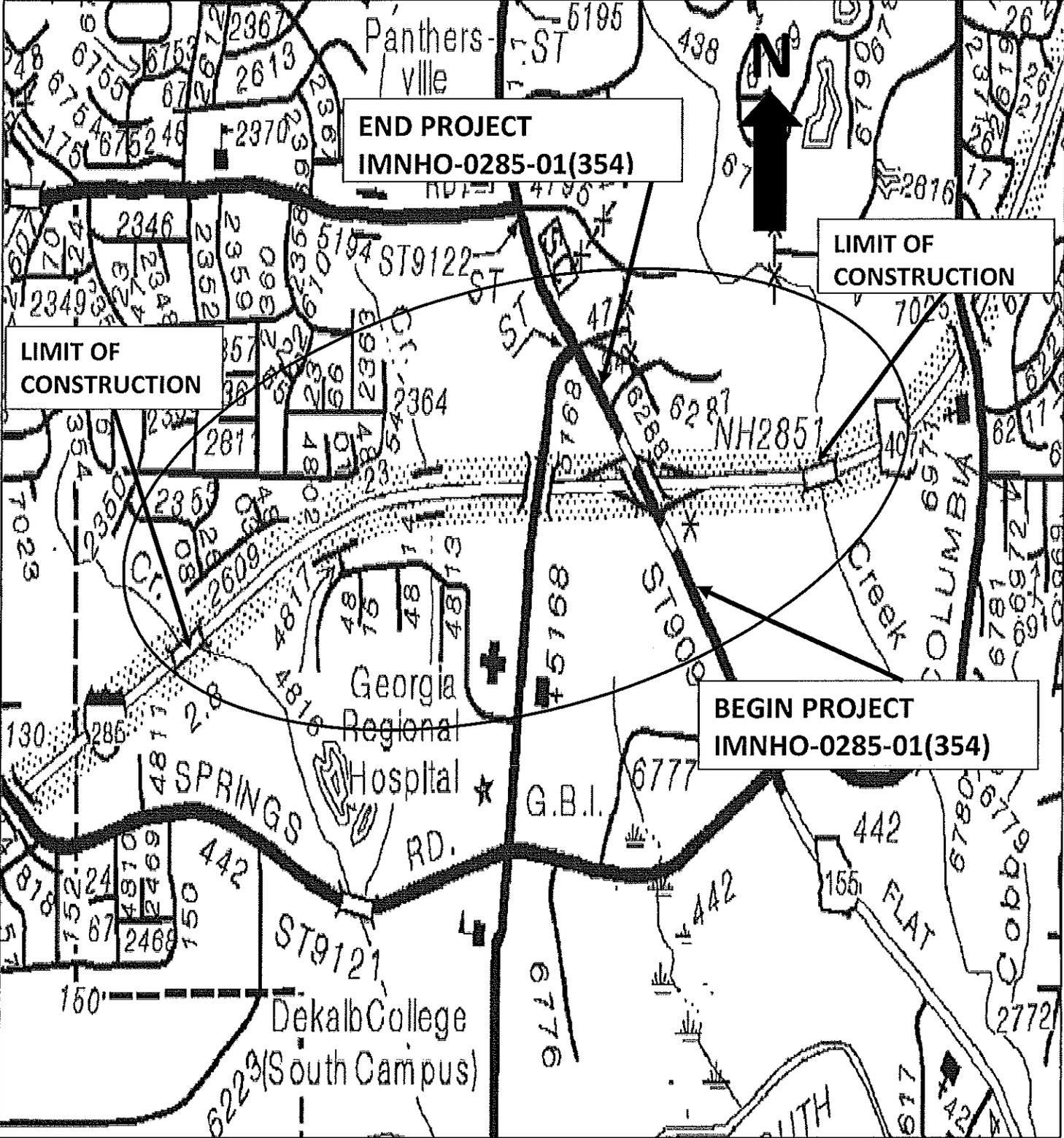


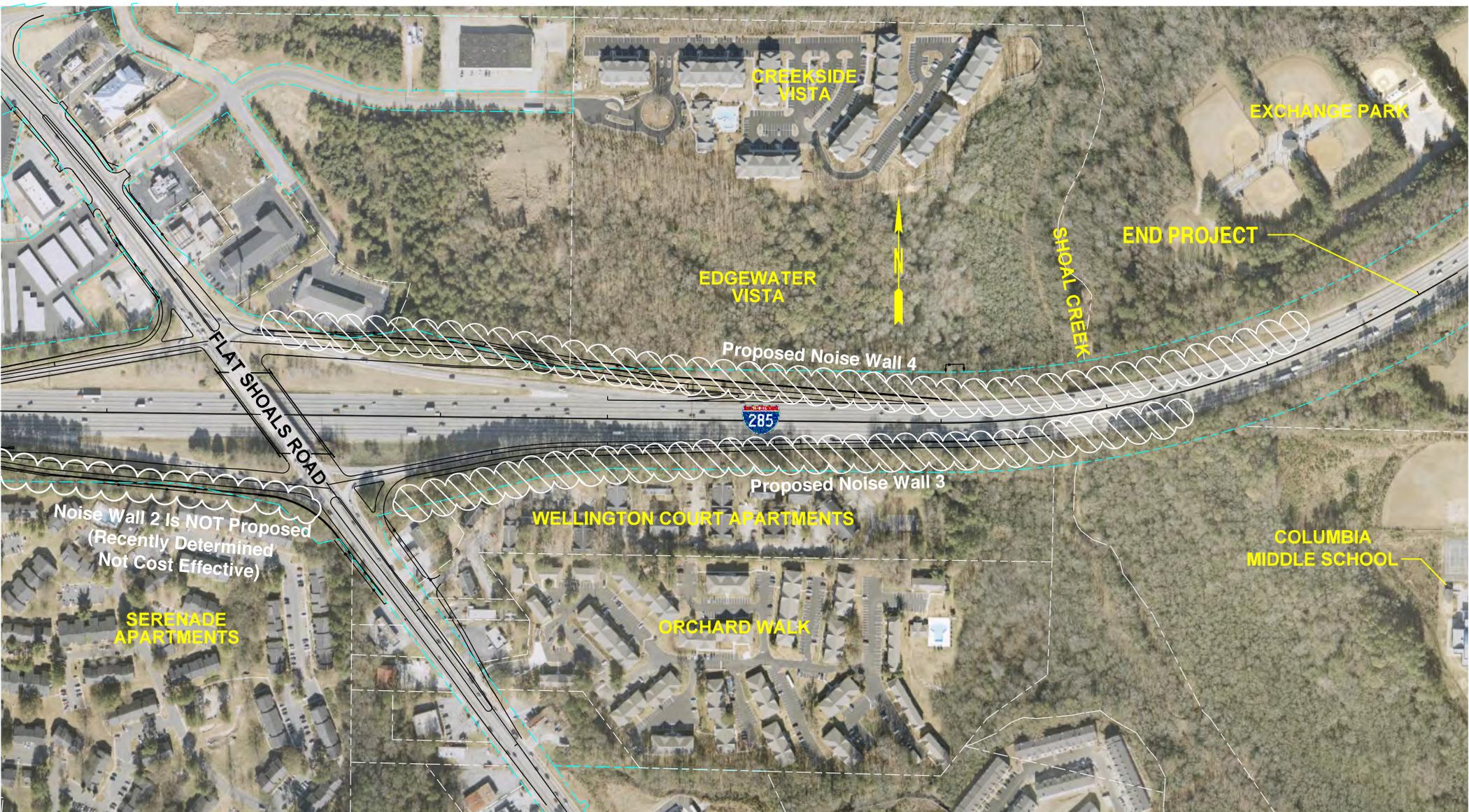
Figure 1: Proposed Noise Wall Locations
Georgia Department of Transportation Project PI 713290, DeKalb County
I-285 at SR 155/Flat Shoals Road Interchange Reconstruction



GRAPHIC SCALE: 1" = 400'

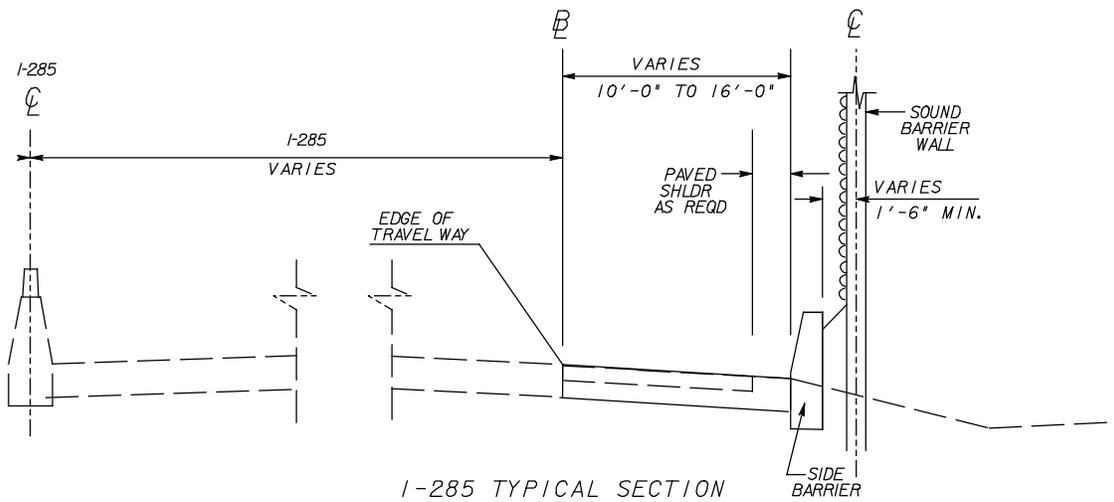


Figure 2: Proposed Noise Wall Locations
Georgia Department of Transportation Project PI 713290, DeKalb County
I-285 at SR 155/Flat Shoals Road Interchange Reconstruction

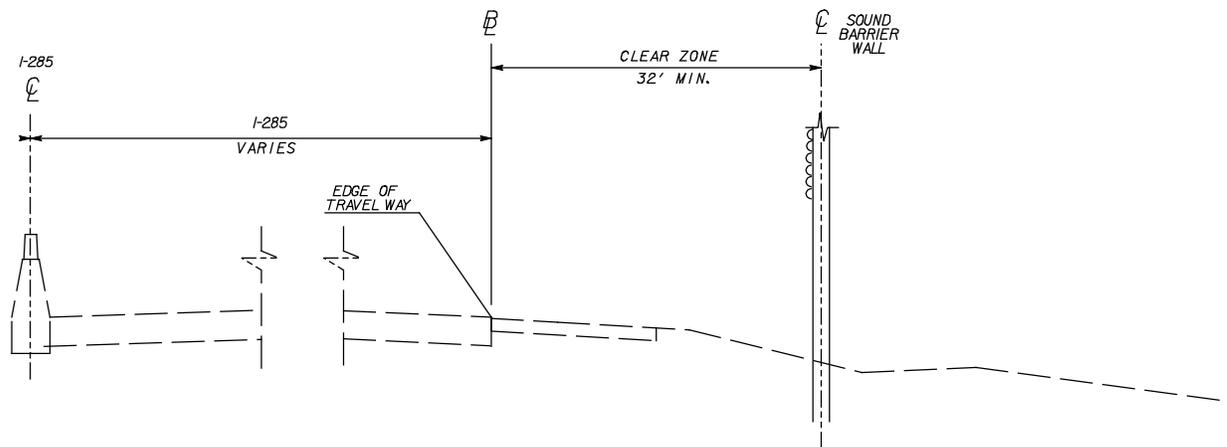


GRAPHIC SCALE: 1" = 400'

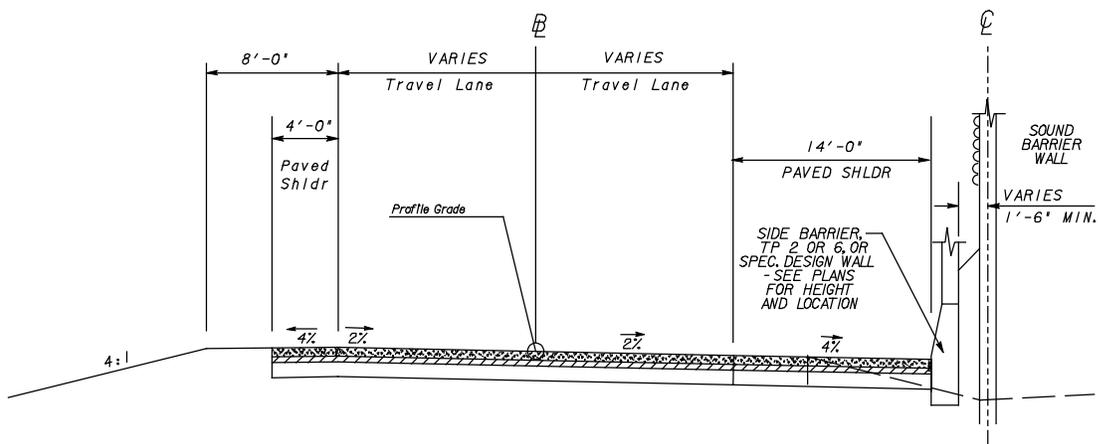




I-285 TYPICAL SECTION
SOUND BARRIER WALL
ADJACENT TO SHOULDER



I-285 TYPICAL SECTION
SOUND BARRIER WALL



RAMPS TYPICAL SECTION
SOUND BARRIER WALL

I-285 AT SRI55/FLAT SHOALS ROAD
1MNHO-0285-01(354)
PI# 713290
SOUND BARRIER TYPICAL DETAILS

NOT TO SCALE

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE IMNH0-0285-01(354), DeKalb
I-285 @ SR 155/Flat Shoals Road
P.I. No. 713290

OFFICE Program Delivery

DATE 2/23/2012

Concept Revision Update

SUBJECT REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER Karyn Matthews

MNGT LET DATE 7/15/2014

MNGT R/W DATE 4/15/2012

PROGRAMMED COST (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$19,198,100

DATE 1/31/2011

RIGHT OF WAY \$13,400,000

DATE 1/28/2011

UTILITIES \$500,000

DATE 1/31/2011

REVISED COST ESTIMATES

CONSTRUCTION* \$23,440,200

RIGHT OF WAY \$9,362,000

UTILITIES \$550,000

* Costs contain 5% Engineering and Inspection

REASON FOR COST CHANGE Addition of noise walls to the project and other general updates.

CONTINGENCY SUMMARY

Construction Cost Estimate:	\$21,835,010.66	(Base Estimate)
Engineering and Inspection:	\$1,091,750.53	(Base Estimate x 5 %)
Total Liquid AC Adjustment	\$513,411.56	(From attached worksheet)
Construction Total:	\$23,440,172.75	

REIMBURSABLE UTILITY COST

<u>Utility Owner</u>	<u>Reimbursable Costs</u>
Georgia Power Co.	\$550,000.00
AT&T	\$0.00
DeKalb County Water (hydrant)	\$0.00
DeKalb County Water (main)	\$0.00
Atlanta Gas Light	\$0.00
Comcast	\$0.00

Attachments

DETAILED COST ESTIMATE



Job: 713290-

JOB NUMBER: 713290-

FED/STATE PROJECT NUMBER IMNH0-0285-01(354)

SPEC YEAR: 01

DESCRIPTION: I-285 @ SR 155/FLAT SHOALS ROAD

ITEMS FOR JOB 713290-

0100 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$395,000.00	TRAFFIC CONTROL - IMNH0-0285-01(354)	\$395,000.00
0010	153-1300	1.000	EA	\$75,000.00	FIELD ENGINEERS OFFICE TP 3	\$75,000.00
0015	201-1500	1.000	LS	\$750,000.00	CLEARING & GRUBBING - IMNH0-0285-01(354)	\$750,000.00
0020	205-0001	23928.940	CY	\$3.50	UNCLASS EXCAV	\$83,751.29
0025	310-5060	630.000	SY	\$11.27	GR AGGR BS CRS 6IN INCL MATL	\$7,098.71
0030	310-5120	47935.000	SY	\$22.90	GR AGGR BS CRS 12IN INCL MATL	\$1,097,696.64
0035	402-1812	10.000	TN	\$87.72	RECYL AC LEVELING, INC BM&HL	\$877.24
0050	402-3121	9434.000	TN	\$73.11	RECYL AC 25MM SP, GP1/2, BM&HL	\$689,685.87
0040	402-3130	2510.000	TN	\$77.61	RECYL AC 12.5MM SP, GP2, BM&HL	\$194,791.84
0045	402-3190	10675.000	TN	\$76.20	RECYL AC 19 MM SP, GP 1 OR 2 , INC BM&HL	\$813,470.12
0055	413-1000	4471.000	GL	\$2.49	BITUM TACK COAT	\$11,112.85
0060	432-0206	2000.000	SY	\$5.64	MILL ASPH CONC PVMT/ 1.50" DEP	\$11,278.66
0065	433-1100	784.000	SY	\$193.33	REF CONC APPR SL/INCL CURB	\$151,569.24
0070	439-0022	44140.000	SY	\$55.00	PLN PC CONC PVMT CL3 10" THK	\$2,427,700.00
0075	441-0104	2201.000	SY	\$58.33	CONC SIDEWALK, 4 IN	\$128,389.92
0080	441-0204	4738.000	SY	\$38.91	PLAIN CONC DITCH PAVING, 4 IN	\$184,350.42
0085	441-0748	40940.000	SY	\$27.54	CONC MEDIAN, 6 IN	\$1,127,442.16
0090	441-3999	1333.000	LF	\$19.85	CONCRETE V GUTTER	\$26,453.66
0095	441-6222	4540.000	LF	\$21.43	CONC CURB & GUTTER/ 8"X30"TP2	\$97,300.74
0100	441-6740	3744.000	LF	\$16.28	CONC CURB & GUTTER/ 8"X30" TP7	\$60,970.63
0105	500-3800	7.000	CY	\$929.43	CL A CONC, INCL REINF STEEL	\$6,506.03
0110	550-1180	4880.000	LF	\$44.41	STM DR PIPE 18", H 1-10	\$216,739.78
0115	550-1240	1335.000	LF	\$61.92	STM DR PIPE 24", H 1-10	\$82,667.53
0120	550-1360	3269.000	LF	\$85.60	STM DR PIPE 36", H 1-10	\$279,816.30
0125	550-4118	3.000	EA	\$422.44	FLARED END SECT 18 IN, SIDE DR	\$1,267.32
0130	550-4124	1.000	EA	\$415.33	FLARED END SECT 24 IN, SIDE DR	\$415.33
0135	550-4130	3.000	EA	\$877.40	FLARED END SECT 30 IN, SIDE DR	\$2,632.20
0140	641-1100	3889.000	LF	\$33.74	GUARDRAIL, TP T	\$131,197.40
0145	641-5001	5.000	EA	\$702.06	GUARDRAIL ANCHORAGE, TP 1	\$3,510.31
0150	641-5012	6.000	EA	\$1,848.93	GUARDRAIL ANCHORAGE, TP 12	\$11,093.56
0155	668-1100	34.000	EA	\$2,142.04	CATCH BASIN, GP 1	\$72,829.52
0160	668-1110	5.000	LF	\$229.91	CATCH BASIN, GP 1, ADDL DEPTH	\$1,149.56
0165	668-2100	48.000	EA	\$2,666.03	DROP INLET, GP 1	\$127,969.48
0170	668-2110	57.000	LF	\$277.12	DROP INLET, GP 1, ADDL DEPTH	\$15,795.57
0175	668-4300	12.000	EA	\$2,639.95	STORM SEW MANHOLE, TP 1	\$31,679.41
SUBTOTAL FOR ROADWAY:						\$9,319,209.29

DETAILED COST ESTIMATE



Job: 713290-

0200 - SIGNING & MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0280	636-1020	500.000	SF	\$16.12	HWY SGN,TP1MAT,REFL SH TP3	\$8,060.12
0275	636-1033	251.000	SF	\$21.14	HWY SIGNS, TP1MAT,REFL SH TP 9	\$5,305.58
0180	636-1072	2587.000	SF	\$18.38	HWY SIGNS,ALUM EXTRD PNLS, RS TP 3	\$47,537.11
0185	636-1077	356.000	SF	\$29.98	HWY SIGN,ALUM EXT PL,REFL SHT,TP 9	\$10,671.94
0190	636-2070	2289.000	LF	\$8.82	GALV STEEL POSTS, TP 7	\$20,197.47
0285	639-2001	2400.000	LF	\$2.18	STEEL WIRE STRAND CABLE, 1/4"	\$5,238.79
0290	639-2002	1500.000	LF	\$3.13	STEEL WIRE STRAND CABLE, 3/8"	\$4,687.83
0270	652-5451	30000.000	LF	\$0.06	SOLID TRAF STRIPE, 5 IN, WHITE	\$1,757.40
0260	652-5452	3852.360	LF	\$0.10	SOLID TRAF STRIPE, 5 IN, YELLO	\$386.74
0265	652-6501	6269.640	GLF	\$0.10	SKIP TRAF STRIPE, 5 IN, WHITE	\$655.93
0195	653-0110	22.000	EA	\$88.13	THERM PVMT MARK, ARROW, TP 1	\$1,938.80
0250	653-0110	31.000	EA	\$87.65	THERM PVMT MARK, ARROW, TP 1	\$2,717.27
0200	653-0120	71.000	EA	\$75.54	THERM PVMT MARK, ARROW, TP 2	\$5,363.18
0255	653-0120	20.000	EA	\$78.36	THERM PVMT MARK, ARROW, TP 2	\$1,567.13
0205	653-0170	3.000	EA	\$93.57	THERM PVMT MARK, ARROW, TP 7	\$280.71
0210	653-0210	16.000	EA	\$112.28	THERM PVMT MARK, WORD , TP 1	\$1,796.53
0215	653-1704	431.000	LF	\$4.33	THERM SOLID TRAF STRIPE,24",WH	\$1,867.79
0220	653-1810	4260.000	LF	\$1.01	THER SLD TRAF STRIPE, 10 IN, W	\$4,293.27
0225	653-2501	8.000	LM	\$1,407.64	THERMO SOLID TRAF ST, 5 IN, WH	\$11,261.09
0230	653-2502	2.000	LM	\$1,389.07	THERMO SOLID TRAF ST, 5 IN, YE	\$2,778.15
0235	653-4501	4.000	GLM	\$887.64	THERMO SKIP TRAF ST, 5 IN, WHI	\$3,550.55
0240	653-6004	540.000	SY	\$4.26	THERM TRAF STRIPING, WHITE	\$2,300.04
0245	653-6006	80.000	SY	\$4.32	THERM TRAF STRIPING, YELLOW	\$345.25
0295	654-1001	90.000	EA	\$4.64	RAISED PVMT MARKERS TP 1	\$418.03
0300	654-1003	300.000	EA	\$4.98	RAISED PVMT MARKERS TP 3	\$1,492.76
SUBTOTAL FOR SIGNING & MARKING:						\$146,469.46

0300 - SIGNALS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0305	615-1200	535.000	LF	\$17.22	DIRECTIONAL BORE - IMNH0-0285-01(354)	\$9,212.84
0310	636-1041	60.000	SF	\$46.31	HWY SIGNS,TP 2MAT,REFL SH TP 9	\$2,778.61
0315	639-4004	6.000	EA	\$6,323.43	STRAIN POLE, TP IV	\$37,940.57
0320	639-4014	2.000	EA	\$7,608.30	STR POLE,TP 4,INCL LUMIN. ARM	\$15,216.60
0325	647-1000	1.000	LS	\$60,000.00	TRAF SIGNAL INSTALLATION NO - TRAFFIC INSTALLATION #1	\$60,000.00
0330	647-1000	1.000	LS	\$60,000.00	TRAF SIGNAL INSTALLATION NO - TRAFFIC INSTALLATION #2	\$60,000.00
0335	647-1000	1.000	LS	\$60,000.00	TRAF SIGNAL INSTALLATION NO - TRAFFIC INSTALLATION #3	\$60,000.00
0340	682-6233	800.000	LF	\$9.57	CONDUIT, NONMETL, TP 3, 2 IN	\$7,655.30
0345	937-6050	2.000	EA	\$4,502.11	INT VIDEO DET SYS ASMBLY, TP A	\$9,004.22
0350	937-8000	1.000	LS	\$637.62	TESTING	\$637.62
0355	937-8500	1.000	LS	\$761.25	TRAINING	\$761.25
SUBTOTAL FOR SIGNALS:						\$263,207.01

0400 - BRIDGES

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0360	500-0000	1.000	\$	\$3,720,461.00	SEC 500 CONC STRUCTURES	\$3,720,461.00
0370	540-1102	1.000	LS	\$100,000.00	REM OF EX BR, BR NO - IMNH0-0285-01(354)	\$100,000.00
SUBTOTAL FOR BRIDGES:						\$3,820,461.00

DETAILED COST ESTIMATE



Job: 713290-

0500 - WALLS

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0375	500-3107	149.000	CY	\$930.76	CL A CONC, RET WALL	\$138,682.78
0380	617-0510	1.000	LS	\$250,000.00	PERMANENTLY ANCHORED WALL NO - IMNH0-0285-01(354)	\$250,000.00
0385	621-4020	2040.000	LF	\$230.18	CONCRETE SIDE BARRIER, TY 2	\$469,567.20
0390	621-4021	639.000	LF	\$401.99	CONCRETE SIDE BARRIER, TY 2A	\$256,873.11
0395	621-4022	459.000	LF	\$484.02	CONCRETE SIDE BARRIER, TY 2B	\$222,167.20
0400	621-4023	94.000	LF	\$683.29	CONCRETE SIDE BARRIER, TY 2C	\$64,229.30
0405	621-4060	242.000	LF	\$298.94	CONCRETE SIDE BARRIER, TY 6	\$72,343.48
0410	621-4061	453.000	LF	\$323.03	CONCRETE SIDE BARRIER, TY 6A	\$146,332.59
0415	621-4062	146.000	LF	\$479.14	CONCRETE SIDE BARRIER, TY 6B	\$69,954.44
0420	621-4063	204.000	LF	\$348.05	CONCRETE SIDE BARRIER, TY 6C	\$71,002.20
0425	621-4082	46.000	LF	\$285.07	CONCRETE SIDE BARRIER, TY 7T	\$13,113.27
0430	624-0400	60100.000	SF	\$22.78	SOUND BARRIER, TYPE- RAMP A	\$1,369,079.20
0435	624-0400	25700.000	SF	\$22.78	SOUND BARRIER, TYPE- RAMP B	\$585,446.51
0440	624-0400	40300.000	SF	\$22.78	SOUND BARRIER, TYPE- RAMP C	\$918,034.81
0445	624-0400	47400.000	SF	\$22.78	SOUND BARRIER, TYPE- RAMP D	\$1,079,772.95
0450	627-1010	16815.000	SF	\$72.04	MSE WALL FACE, 10 - 20 FT HT, WALL NO - IMNH0-0285-01 (354)	\$1,211,322.84
0455	627-1020	16175.000	SF	\$59.72	MSE WALL FACE, 20 - 30 FT HT, WALL NO - BRIDGE DESIGN	\$965,947.87
SUBTOTAL FOR WALLS:						\$7,903,869.75

0600 - TEMPORARY EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0460	163-0232	6.000	AC	\$603.40	TEMPORARY GRASSING	\$3,620.39
0465	163-0240	144.000	TN	\$263.28	MULCH	\$37,912.81
0470	163-0300	2.000	EA	\$1,561.79	CONSTRUCTION EXIT	\$3,123.57
0475	163-0501	1.000	EA	\$672.05	CONSTR AND REMOVE SILT CONTROL GATE, TP 1	\$672.05
0480	163-0520	1000.000	LF	\$18.07	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$18,074.71
0485	163-0529	3700.000	LF	\$3.35	CNST/REM TEMP SED BAR OR BLD STRW CK DM	\$12,395.00
0490	163-0550	74.000	EA	\$258.70	CONS & REM INLET SEDIMENT TRAP	\$19,144.06
0495	165-0030	70275.000	LF	\$0.93	MAINT OF TEMP SILT FENCE, TP C	\$65,029.67
0500	165-0085	1.000	EA	\$326.30	MAINT OF SILT CONTROL GATE, TP 1	\$326.30
0505	165-0101	2.000	EA	\$608.13	MAINT OF CONST EXIT	\$1,216.27
0510	165-0105	74.000	EA	\$89.21	MAINT OF INLET SEDIMENT TRAP	\$6,601.48
0515	167-1000	2.000	EA	\$1,355.20	WATER QUALITY MONITORING AND SAMPLING	\$2,710.40
0520	171-0030	53100.000	LF	\$2.79	TEMPORARY SILT FENCE, TYPE C	\$148,236.08
0525	716-2000	2.000	SY	\$2.43	EROSION CONTROL MATS, SLOPES	\$4.85
SUBTOTAL FOR TEMPORARY EROSION CONTROL:						\$319,067.64

0700 - PERMANENT EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0530	603-2024	600.000	SY	\$56.50	STN DUMPED RIP RAP, TP 1, 24"	\$33,900.22
0535	603-2180	100.000	SY	\$46.07	STN DUMPED RIP RAP, TP 3, 12"	\$4,606.59
0540	603-7000	700.000	SY	\$6.61	PLASTIC FILTER FABRIC	\$4,627.70
0545	700-6910	12.000	AC	\$943.47	PERMANENT GRASSING	\$11,321.64
0550	700-7000	36.000	TN	\$66.06	AGRICULTURAL LIME	\$2,378.22
0555	700-8000	12.000	TN	\$355.30	FERTILIZER MIXED GRADE	\$4,263.54
0560	700-8100	600.000	LB	\$2.71	FERTILIZER NITROGEN CONTENT	\$1,628.60
SUBTOTAL FOR PERMANENT EROSION CONTROL:						\$62,726.51

TOTALS FOR JOB 713290-

ITEMS COST:	\$21,835,010.66
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$21,835,010.66
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$21,835,010.66

PROJ. NO.

IMNHO-0285-01 (354)

CALL NO.

P.I. NO.

713290

DATE

Feb. 23, 2012

INDEX (TYPE)

REG. UNLEADED

Feb-12

\$ 3.481

DIESEL

\$ 3.796

LIQUID AC

\$ 570.00

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)

506844

\$

506,844.00

Monthly Asphalt Cement Price month placed (APM)

Max. Cap

60%

\$ 912.00

Monthly Asphalt Cement Price month project let (APL)

\$ 570.00

Total Monthly Tonnage of asphalt cement (TMT)

\$ 1,482.00

ASPHALT	Tons	%AC	AC ton
Leveling	10	5.0%	0.5
12.5 OGFC		5.0%	0
12.5 mm	2510	5.0%	125.5
9.5 mm SP		5.0%	0
25 mm SP	9434	5.0%	471.7
19 mm SP	10675	5.0%	533.75
	22629		1131.45

BITUMINOUS TACK COAT

Price Adjustment (PA)

\$ 6,567.56

\$

6,567.56

Monthly Asphalt Cement Price month placed (APM)

Max. Cap

60%

\$ 912.00

Monthly Asphalt Cement Price month project let (APL)

\$ 570.00

Total Monthly Tonnage of asphalt cement (TMT)

19.20339622

Bitum Tack

Gals	gals/ton	tons
4471	232.8234	19.2033962

PROJ. NO.

IMNHO-0285-01 (354)

CALL NO.

P.I. NO.

713290

DATE

Feb. 23, 2012

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)						0	\$	-
Monthly Asphalt Cement Price month placed (APM)		Max. Cap	60%	\$	912.00			
Monthly Asphalt Cement Price month project let (APL)				\$	570.00			
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
					0

TOTAL LIQUID AC ADJUSTMENT							\$	513,411.56
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PROJ. NO.: IMNHO-0285-01 (354)

P.I. NO. 713290

DATE: Feb. 23, 2012

Base Construction Cost		\$	21,835,010.66
E & I	5%	\$	1,091,750.53
Construction Contingency	0	\$	-
Subtotal Construction Cost		\$	22,926,761.19
Liquid AC Adjustment (50 % cap)		\$	513,411.56
Total Construction Cost		\$	23,440,172.75

**GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY**

Date: 1/30/2012
Revised:

Project: IMNHO-0285-01(354)
County: DeKalb County
PI: 713290

Description: I-285 at SR 155/Flat Shoal Road
Project Termini: I-285 at SR 155/Flat Shoal Road

Existing ROW: Varies
Required ROW: Varies

Parcels: 22

Land and Improvements \$8,738,400.00

Proximity Damage	\$0.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$4,750,000.00

Valuation Services \$55,000.00

Legal Services \$164,850.00

Relocation \$104,000.00

Demolition \$100,000.00

Administrative \$199,000.00

TOTAL ESTIMATED COSTS \$9,361,250.00

TOTAL ESTIMATED COSTS (ROUNDED) \$9,362,000.00

Preparation Credits	Hours	Signature

Prepared By: Lashone Alexander CG#: 286999 01/30/2012
Approved By: Gabriel Floyd CG#: 286999 01/30/2012

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

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE IMNH0-0285-01(354), DeKalb County
I-285 @ SR 155/Flat Shoals Road
PI # 713290

OFFICE District #7 Office
Chamblee, GA

DATE January 10, 2012

FROM Bryant Poole, District Engineer

TO Bobby Hilliard, State Program Delivery Engineer
ATTN Karyn M. Matthews, P.E.

SUBJECT PRELIMINARY UTILITY COST (ESTIMATE)

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

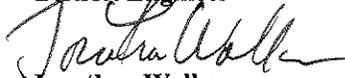
FACILITY OWNER	NON- REIMBURSABLE	REIMBURSABLE
Georgia Power Co.	Power Pole	\$550,000.00
AT&T of Georgia	Fiber	\$66,000.00
DeKalb County Water,	Fire Hydrant	\$8,800.00
DeKalb County Water,	Water main	\$173,250.00
DeKalb County Sewer,	Sewer main	\$93,500.00
Atlanta Gas Light	Gas main	\$66,000.00
Comcast	Fiber	\$44,000.00
Totals		\$550,000.00
Total Estimate Cost:		\$1,001,500.00

DeKalb County Water and Sewer wants their facilities to be added to the contract as a CIA.

If you have any questions, please contact Wade Woodard at 770-986-1117.

Sincerely,

Bryant Poole
District Engineer


By: Jonathan Walker
District Utilities Engineer

BP: JW: WW
Attachments
CC: Jeff Baker P.E. / Utilities (O.G.C. 10th Floor)
File

Woods, Sam

From: Matthews, Karyn
Sent: Friday, February 03, 2012 9:04 AM
To: Hedeem, David
Cc: Westberry, Lisa; John, Alexis; Woods, Sam
Subject: RE: 713290 mitigation?

Thanks, David.

Sam – you can leave that Mitigation line in the report and put \$0. That will help avoid any comments about it getting left out.

Karyn M. Matthews, P.E.

Project Manager, Georgia Dept. of Transportation
600 W. Peachtree, 25th floor, 30308
phone: 404.631.1584 cell: 404.276.2777

From: Hedeem, David
Sent: Friday, February 03, 2012 8:40 AM
To: Matthews, Karyn
Cc: Westberry, Lisa; John, Alexis; Woods, Sam
Subject: RE: 713290 mitigation?

At this point, the project is anticipated to require no mitigation.

At last check the project would have no impact on Waters of the US so no Corps mitigation would be required. As long as the noise wall is designed to avoid the potential buffer encroachment in the vicinity of Stream 1, no variance would be required...and therefore no EPD mitigation would be required. (NOTE: even if a buffer variance is required, mitigation is not likely to be required by EPD.)

*David Hedeem
Ecologist, GDOT
404-631-1419*

From: Matthews, Karyn
Sent: Wednesday, February 01, 2012 3:15 PM
To: Westberry, Lisa
Cc: John, Alexis; Hedeem, David; Woods, Sam
Subject: 713290 mitigation?

Lisa,

We are preparing a concept update for 713290, I-285 @ Flat Shoals interchange in DeKalb so we need a mitigation cost estimate. The special studies are complete; the CE has not been approved yet.

Please let me know what other information you need for this.

Thanks!

Karyn M. Matthews, P.E.

Project Manager
Georgia Department of Transportation
600 W. Peachtree, 25th floor, 30308
Phone: 404.631.1584 Cell: 404.276.2777
Email: kmatthews@dot.ga.gov

Department of Transportation State of Georgia

INTERDEPARTMENT CORRESPONDENCE

FILE IMNH0-0285-01(354), DeKalb County **OFFICE** Planning
P.I. # 713290 **DATE** November 15, 2011

FROM Cindy VanDyke, State Transportation Planning Administrator

TO Bobby K. Hilliard, P.E., State Program Delivery Engineer
Attention: Karyn M. Matthews

SUBJECT Updated Design Traffic for I-285 @ SR 155/Flat Shoals Road.

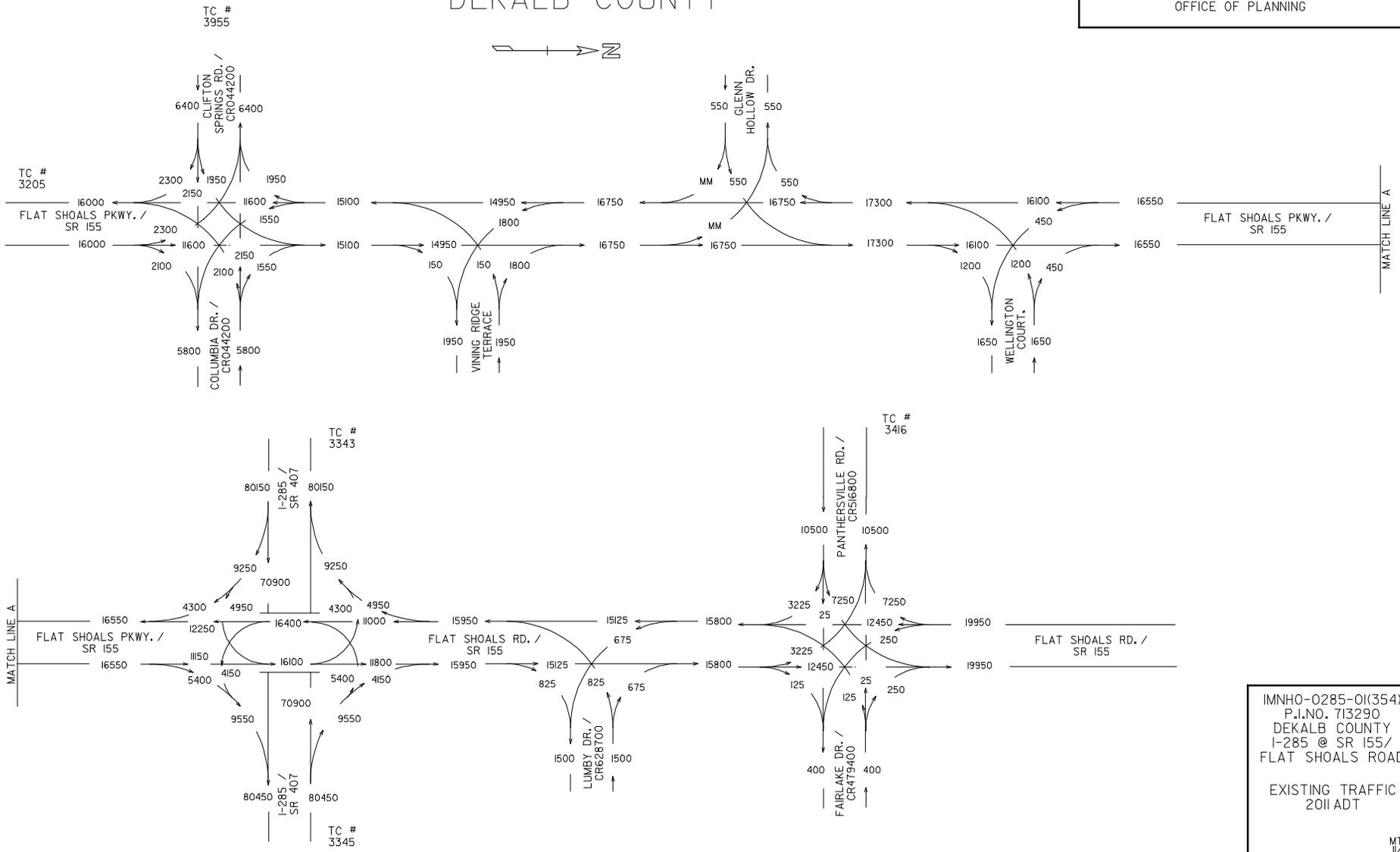
Updated Design Traffic for the above project is attached as a pdf file 713290.pdf and 713290.dgn.

If you have any questions concerning this information please contact Micheal T. Word at (404) 631-1959.

CLV/MTW

DEKALB COUNTY

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING

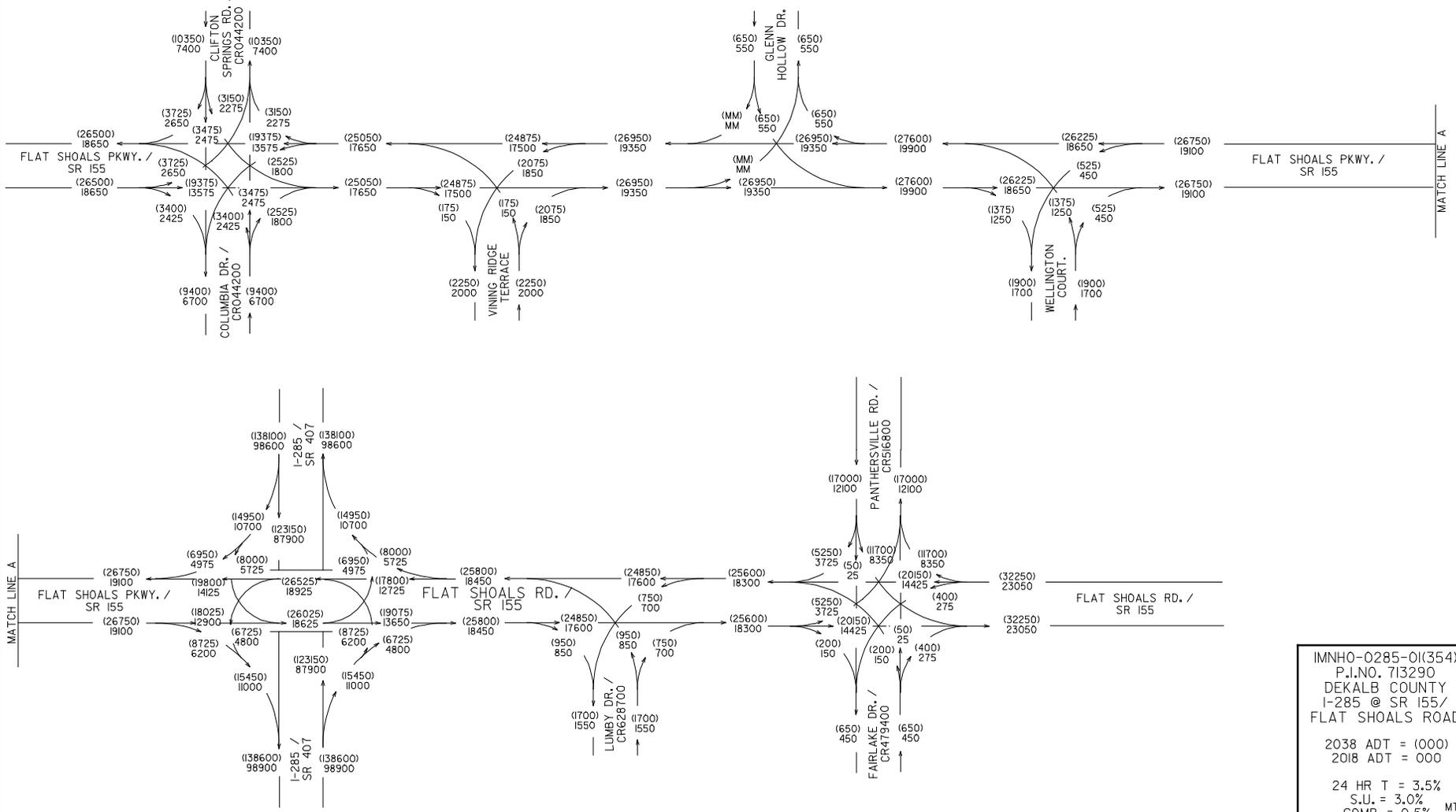
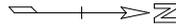


IMNH0-0285-01(354)
 P.I. NO. 713290
 DEKALB COUNTY
 I-285 @ SR 155/
 FLAT SHOALS ROAD
 EXISTING TRAFFIC
 2011 ADT

MTW
11/11

DEKALB COUNTY

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING



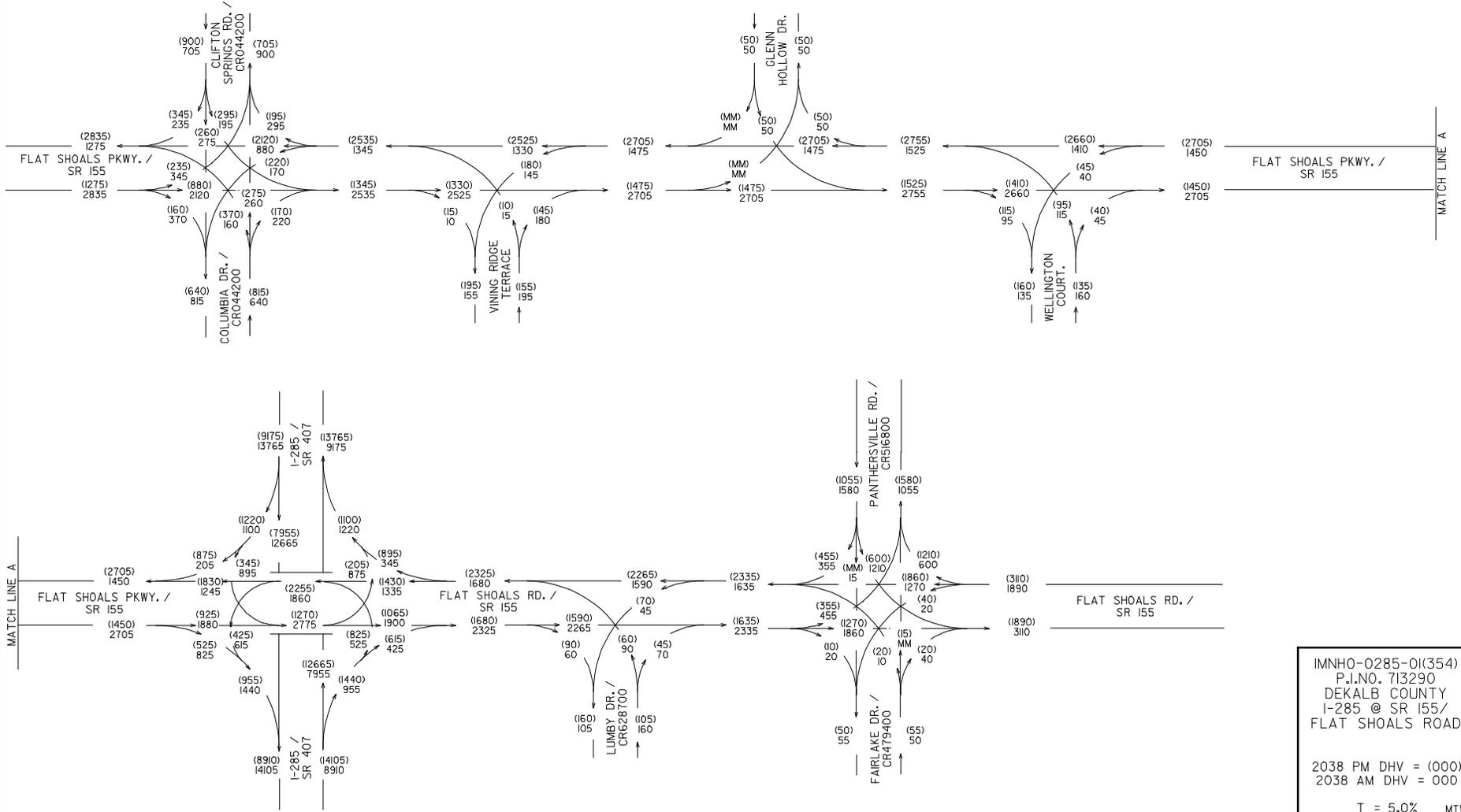
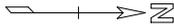
MNHO-0285-01(354)
 P.I.NO. 713290
 DEKALB COUNTY
 I-285 @ SR 155/
 FLAT SHOALS ROAD

 2038 ADT = (000)
 2018 ADT = 000

 24 HR T = 3.5%
 S.U. = 3.0%
 COMB. = 0.5% MTW
11/11

DEKALB COUNTY

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING



IMNH0-0285-01(354)
P.L.NO. 713290
DEKALB COUNTY
I-285 @ SR 155/
FLAT SHOALS ROAD

2038 PM DHV = (000)
2038 AM DHV = 000

T = 5.0% MTW
11/11

DEKALB COUNTY

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION

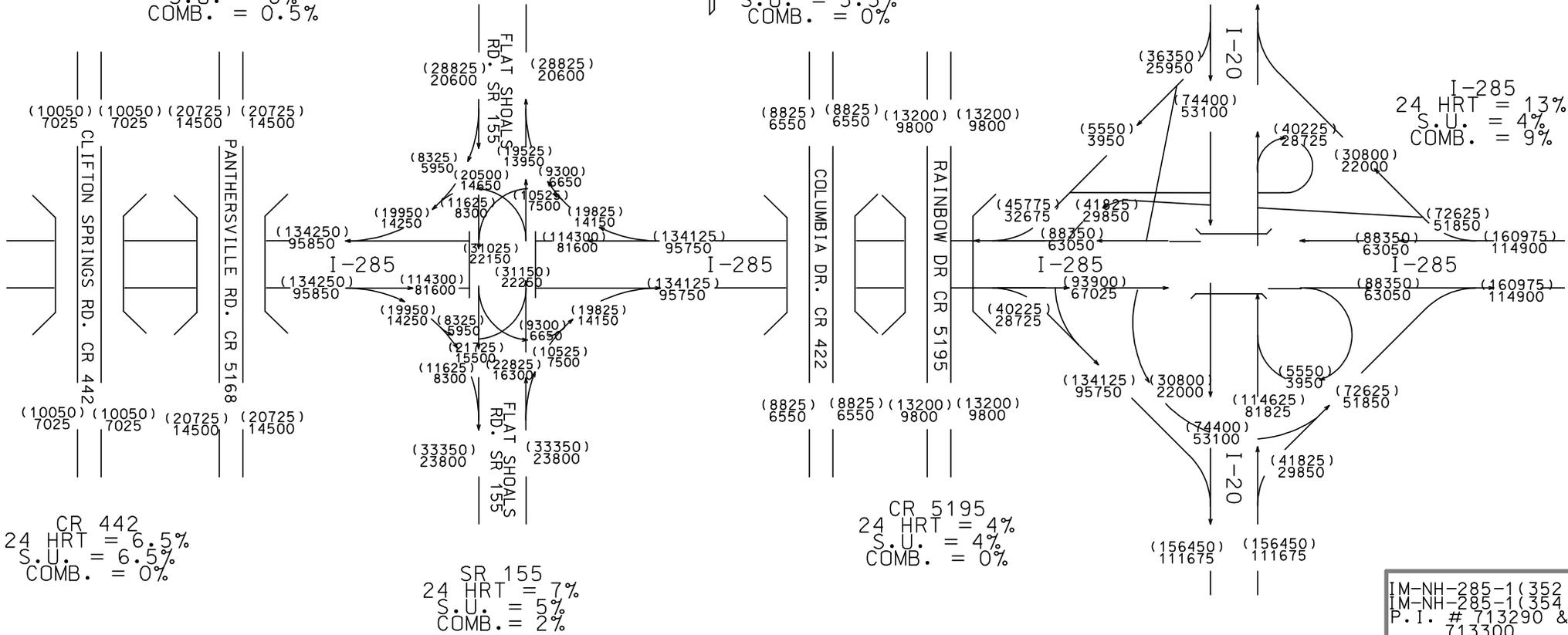


I-20
24 HRT = 15.5%
S.U. = 5.5%
COMB. = 10%

CR 5168
24 HRT = 6.5%
S.U. = 6.5%
COMB. = 0.5%

CR 422
24 HRT = 5.5%
S.U. = 5.5%
COMB. = 0%

I-285
24 HRT = 13%
S.U. = 4%
COMB. = 9%



SR 155
24 HRT = 7%
S.U. = 5%
COMB. = 2%

CR 5195
24 HRT = 4%
S.U. = 4%
COMB. = 0%

IM-NH-285-1 (352)
IM-NH-285-1 (354)
P.I. # 713290 &
713300
I-285
DEKALB COUNTY
2034 ADT = (000)
2014 ADT = 000

DEKALB COUNTY

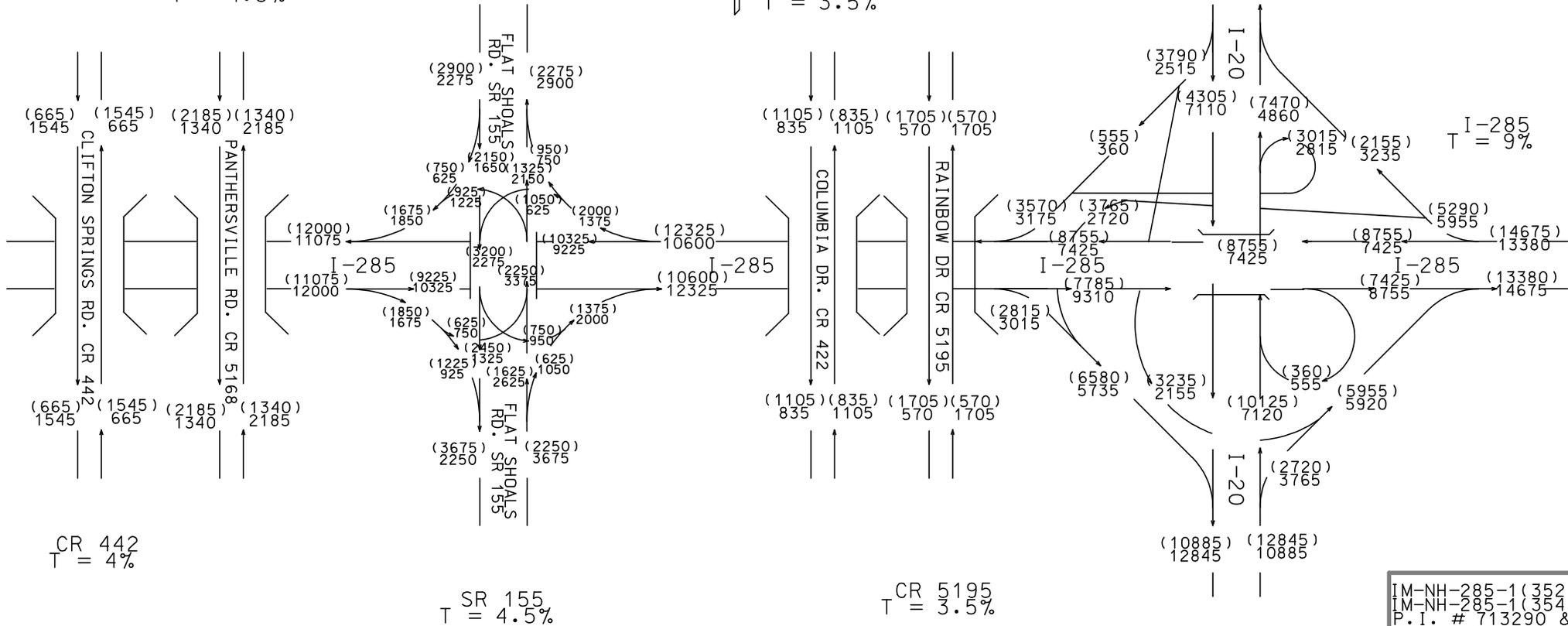
GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENT/LOCATION



CR 5168
T = 4.5%

CR 422
T = 3.5%

I-20
T = 10.5%



IM-NH-285-1 (352)
IM-NH-285-1 (354)
P.I. # 713290 &
713300
I-285
DEKALB COUNTY

2034 PM DHV = (000)
2034 AM DHV = 000

ARC 2040 Financially-Constrained Model I-285 at Flat Shoals Parkway

