DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE

FILE P.I. #0013614
Morgan County
GDOT District 2 - Tennille
US44/SR24 widening from Putnam/Morgan County Line to CR121/Pierce Diary Rd

OFFICE Design Policy & Support

DATE December 9, 2016

FROM for 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
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Andy Casey, State Roadway Design Engineer
Attn: Michael Lee, District Design Engineer
Richard Cobb, Location Bureau Chief
Jimmy Smith, District Engineer
Todd Price, District Preconstruction Engineer
Ellen Wright, District Planning & Programming Engineer
Damon Frost, Area Engineer - D2, A5
Frank Childs, Project Manager
BOARD MEMBER - 10th Congressional District

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

LOCATION AND DESIGN REPORT

FILE P.I. 0013614 (formerly P.I. 222570) **OFFICE** Office of Program Delivery
EDS00-0441-00(044)
Morgan **DATE** November 22, 2016
SR 24/US 441 from Putnam County Line
to North of SR 121/Pierce Diary Road

FROM Michael Lee, P.E., District Design Engineer

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

SUBJECT **Request for Location and Design Approval**

Description and Project Proposal: Project 0013614 proposes to widen the existing US 441/SR 24 roadway from 2 and 3 lanes to 4 lanes with a 32 foot grassed median and 4 lanes with a 14 foot flush median. The project begins at the Putnam/Morgan County line and extends north 8.1 miles, approximately 250 feet north of CR 121 Pierce Diary Road, approximately 1000 feet before the intersection with I-20. Approximately 0.6 miles north of Mission Road, the median begins tapering to a 14 foot flush median and ties into the existing five lane section located 0.06 miles north of CR121/Pierce Dairy Road. The project ends just north of CR 121/Pierce Dairy Road. The total project length is approximately 8.1 miles.

Concept Approval Date: Approved 06/19/97; Revised 01/1/01; Revised 03/15/12.

Concept Update: An update to the revised concept report has been made to include extending the five lane section approximately 0.9 miles south to approximately 0.1 miles north of Sunlight Court. The five lane section is being extended to accommodate residential and commercial developments that have occurred since the original Concept Report as well as future developments. A large number of left turn movements are anticipated. The change will eliminate U-turns and improve safety.

Environmental Document: The total cost of this project is less than 100 million dollars. Therefore, this project does not require a GEPA document. However, this project will require 404 permits and buffer variances.

Document Type: None - State Funded Approval Date: N/A

Public Involvement: A Public Hearing Open House (PHOH) was held on October 2, 2007. Of the comments received in response to the Public Hearing Open House, 29 were in support of the project, 7 were opposed to the project, 14 were uncommitted, and 18 expressed conditional support for the proposed project.

A Public Information Open House (PIOH) was held on August 4, 2016 at the Putnam County High School cafeteria. A total of 155 people attended the open house. Of the 38 respondents who formally commented, 7 were in support of the project, 2 were opposed, 3 were uncommitted, and 10 expressed conditional support. There were no public officials in attendance to our knowledge. There were no significant changes made to the plans as a result of the 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.

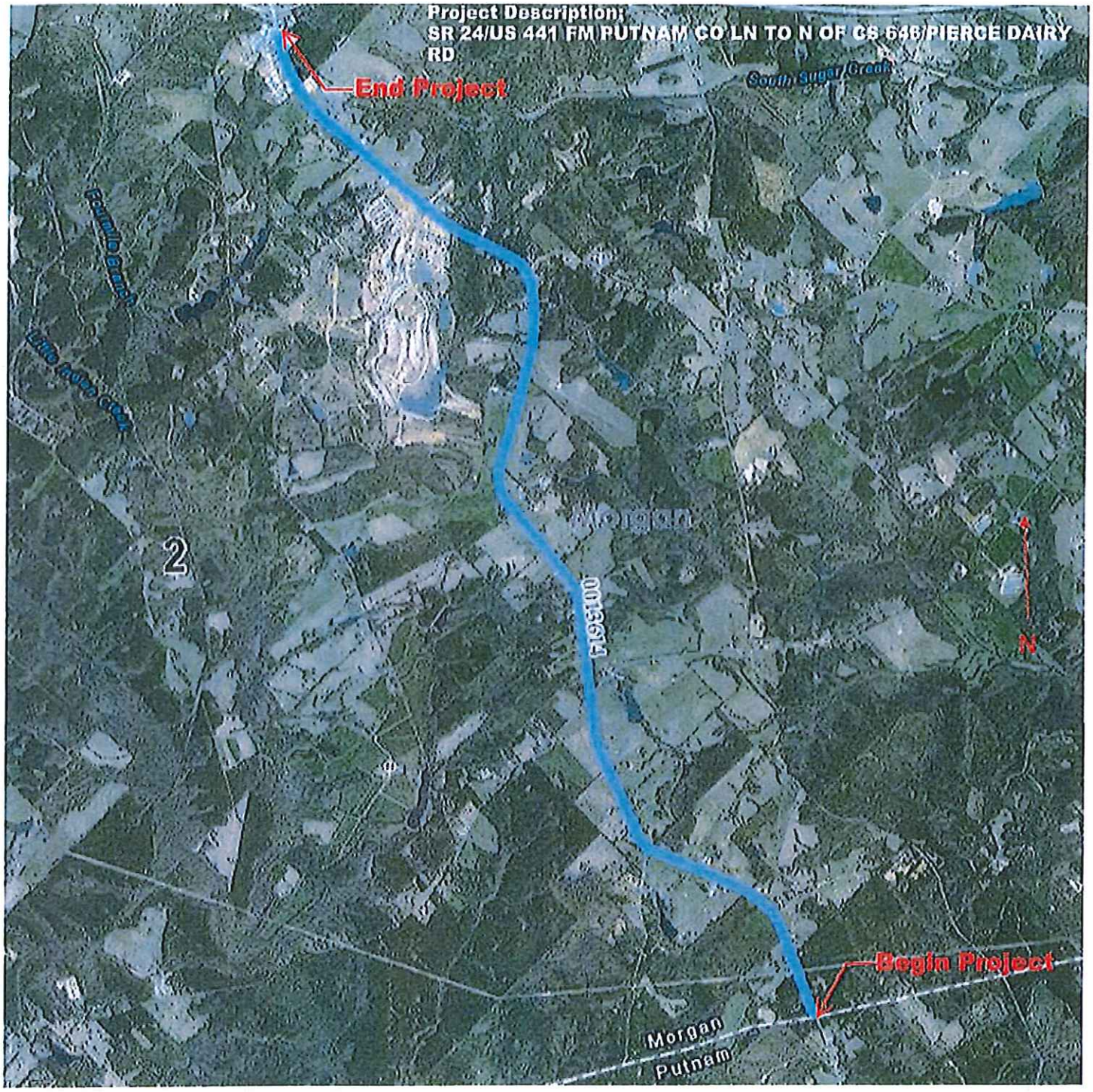
Concur: _____
GDOT Director of Engineering

Approve: Margaret B. Pickle 12/6/16
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: December 9, 2016

Attachments:

- Sketch Map
- Construction Cost Estimate (Dated 3/1/16)
- Notice of Location and Design Approval
- Typical Sections of the project.


Project Description:
SR 24/US 441 FM PUTNAM CO LN TO N OF CS 646/PIERCE DAIRY RD
End Project
South Sugar Creek
Fourmile Branch
Little Indian Creek
2
0013614
N
Begin Project
Morgan
Putnam

Processed Date: 3/1/16

DETAILED COST ESTIMATE

Georgia Department of Transportation

Job: 00013614

2 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0393	201-1500	1.000	LS	$1,898,100.00000	CLEARING & GRUBBING - WHOLE PROJECT	$1,898,100.00
0453	205-0001	295401.000	CY	$4.55000	UNCLASS EXCAV	$1,344,074.55
0458	206-0002	259464.000	CY	$3.95000	BORROW EXCAV, INCL MATL	$1,024,882.80
0513	310-1101	219913.000	TN	$17.15000	GR AGGR BASE CRS, INCL MATL	$3,771,507.95
0503	402-3121	125035.000	TN	$62.00000	RECYL AC 25MM SP,GP1/2,BM&HL	$7,752,170.00
0493	402-3130	28258.900	TN	$68.00000	RECYL AC 12.5MM SP,GP2,BM&HL	$1,921,605.20
0498	402-3190	37679.000	TN	$65.00000	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	$2,449,135.00
0508	413-1000	45544.000	GL	$2.65000	BITUM TACK COAT	$120,691.60
0020	441-0016	386.000	SY	$35.00000	DRIVEWAY CONCRETE, 6 IN TK	$13,510.00
0308	441-0104	2886.000	SY	$25.00000	CONC SIDEWALK, 4 IN	$72,150.00
0303	441-0756	2761.000	SY	$105.00000	CONC MEDIAN, 8 IN	$289,905.00
0178	441-3999	12430.000	LF	$16.00000	CONCRETE V GUTTER	$198,880.00
0518	441-4030	900.000	SY	$49.74658	CONC VALLEY GUTTER, 8 IN	$44,771.92
0293	441-6222	2325.000	LF	$18.12695	CONC CURB & GUTTER/ 8"X30"TP2	$42,145.16
0298	441-6740	2765.000	LF	$20.48116	CONC CURB & GUTTER/ 8"X30" TP7	$56,630.41
0243	641-1200	6430.000	LF	$17.11461	GUARDRAIL, TP W	$110,046.94
0248	641-5001	11.000	EA	$842.93302	GUARDRAIL ANCHORAGE, TP 1	$9,272.26
0253	641-5012	13.000	EA	$1,972.63781	GUARDRAIL ANCHORAGE, TP 12	$25,644.29
					SUBTOTAL FOR ROADWAY:	$21,145,123.08

3 - STAGING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0523	620-0100	200.000	LF	$36.70155	TEMP BARRIER, METHOD NO. 1	$7,340.31
					SUBTOTAL FOR STAGING:	$7,340.31

4 - EROSION CONTROL

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0398	163-0232	88.000	AC	$600.00000	TEMPORARY GRASSING	$52,800.00
0403	163-0240	3249.000	TN	$250.00000	MULCH	$812,250.00
0323	163-0300	4.000	EA	$1,800.00000	CONSTRUCTION EXIT	$7,200.00
0478	163-0503	25.000	EA	$500.00000	CONSTR AND REMOVE SILT CONTROL GATE,TP 3	$12,500.00
0418	163-0520	200.000	LF	$15.00000	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	$3,000.00
0468	163-0527	20.000	EA	$240.00000	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	$4,800.00
0333	163-0528	7550.000	LF	$3.20000	CONSTR AND REM FAB CK DAM -TP C SLT FN	$24,160.00
0041	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 118+00.00	$8,000.00
0046	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 164+00.00	$8,000.00
0051	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 175+00.00	$8,000.00
0056	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 181+50.00	$8,000.00
0057	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 206+00.00	$8,000.00
0058	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 211+00.00	$8,000.00
0063	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 229+00.00	$8,000.00
0068	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 234+50.00	$8,000.00
0073	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 247+50.00	$8,000.00
0078	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 263+00.00	$8,000.00
0083	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 286+00.00	$8,000.00
0088	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 310+00.00	$8,000.00
0093	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 315+00.00	$8,000.00
0098	163-0531	1.000	EA	$8,000.00000	CONSTR & REM SEDIMENT BASIN,TP 1,STA NO- 335+00.00	$8,000.00

File Location: Div of Preconstruction > CES

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DETAILED COST ESTIMATE

Georgia Department of Transportation

Job: 00013614

6 - SIGNING AND MARKING

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0648	429-1000	17.000	EA	$635.06002	RUMBLE STRIPS	$10,796.02
0548	636-1020	270.000	SF	$17.00000	HWY SGN,TP1MAT,REFL SH TP3	$4,590.00
0568	636-1029	351.000	SF	$14.44952	HWY SGN,TP2 MATL,REFL SH TP 3	$5,071.78
0553	636-1033	180.000	SF	$22.00000	HWY SIGNS, TP1MAT,REFL SH TP 9	$3,960.00
0563	636-1041	468.000	SF	$30.36965	HWY SIGNS,TP 2MAT,REFL SH TP 9	$14,213.00
0558	636-2070	1100.000	LF	$9.00000	GALV STEEL POSTS, TP 7	$9,900.00
0633	636-2080	785.000	LF	$9.80059	GALV STEEL POSTS, TP 8	$7,693.46
0638	636-2090	375.000	LF	$7.37880	GALV STEEL POSTS, TP 9	$2,767.05
0628	636-3010	7.000	EA	$536.12611	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	$3,752.88
0533	647-1000	1.000	LS	$60,000.00000	TRAF SIGNAL INSTALLATION NO - WHOLE PROJECT	$60,000.00
0578	653-0120	145.000	EA	$73.25651	THERM PVMT MARK, ARROW, TP 2	$10,622.19
0593	653-0150	5.000	EA	$174.00000	THERM PVMT MARK, ARROW, TP 5	$870.00
0583	653-0170	50.000	EA	$98.98254	THERM PVMT MARK, ARROW, TP 7	$4,949.13
0618	653-0210	40.000	EA	$110.01139	THERM PVMT MARK, WORD , TP 1	$4,400.46
0598	653-1501	110000.000	LF	$0.27047	THERMO SOLID TRAF ST 5 IN, WHI	$29,751.70
0603	653-1502	100000.000	LF	$0.28090	THERMO SOLID TRAF ST, 5 IN YEL	$28,090.00
0653	653-1704	300.000	LF	$6.91620	THERM SOLID TRAF STRIPE,24",WH	$2,074.86
0608	653-3501	4400.000	GLF	$0.32632	THERMO SKIP TRAF ST, 5 IN, WHI	$1,435.81
0613	653-6004	15000.000	SY	$3.42587	THERM TRAF STRIPING, WHITE	$51,388.05
0643	654-1001	175.000	EA	$4.17225	RAISED PVMT MARKERS TP 1	$730.14
0623	654-1003	2000.000	EA	$3.67523	RAISED PVMT MARKERS TP 3	$7,350.46
					SUBTOTAL FOR SIGNING AND MARKING:	$264,406.99

TOTALS FOR JOB 00013614

ITEMS COST:	$25,296,453.99
COST GROUP COST:	$0.00
ESTIMATED COST:	$25,296,453.99
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	$25,296,453.99

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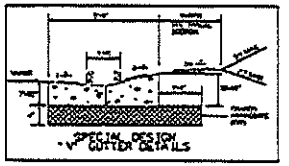
TYPICAL SECTION 1

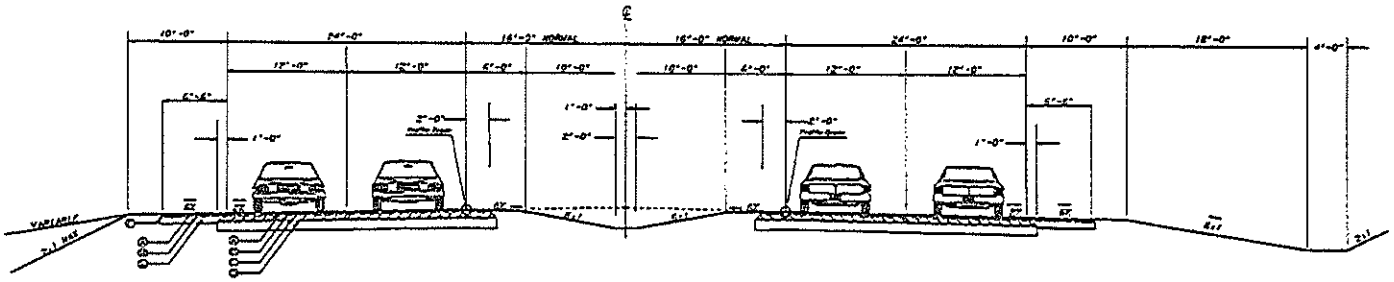
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	0013614		

SLOPE CONTROLS		
SLOPE	CUT	FILL
6:1	———	0-10'
2:1*	ALL	OVER 10'

*GUARDRAIL REQUIRED ON ALL 2:1 FILL SLOPES



*APPLIES TO WHERE THERE IS A TURN LANE AND THE MEDIAN IS AT THE MINIMUM WIDTH OF 10'

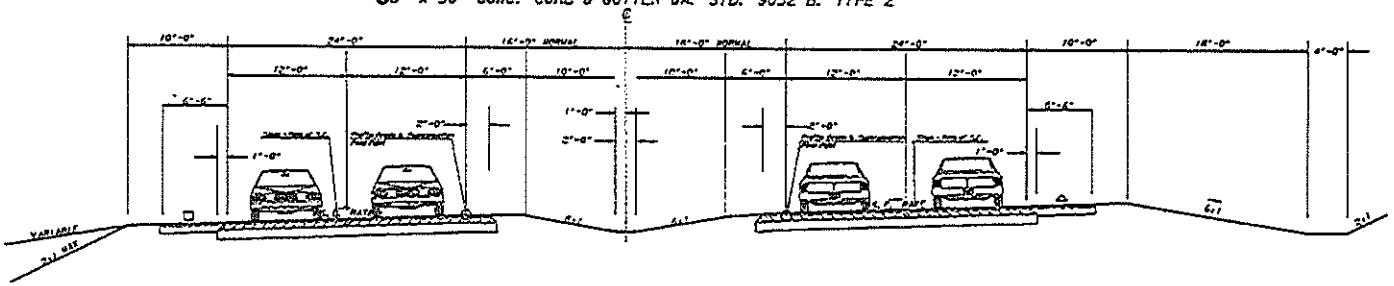


APPLIES TO US 441 / SR 24 STA 99+27.15 TO STA 488+23.95

Tangent

REQUIRED PAVEMENT

① RECYCLED ASPH CONC 12.5 mm SUPERPAVE GP 2 ONLY. 165 lbs/yd2
② RECYCLED ASPH CONC 19 mm SUPERPAVE GP 1 OR GP 2. 220 lbs/yd2
③ RECYCLED ASPH CON 25 mm SUPERPAVE GP 1 OR GP 2. 660 lbs/yd2
④ GRADED AGGREGATE BASE. 12"
⑤ GRADED AGGREGATE BASE. 6"
⑥ SEE GDOT DETAIL P-7
⑦ 8" X 30" CONC. CURB & GUTTER GA. STD. 9032 B. TYPE 2



SEE PLANS FOR THE SUPERELEVATED SECTIONS

Superelevation

△ - ALGEBRAIC DIFFERENCE IN PAVING AND SHOULDER SLOPES NOT TO EXCEED 6%

□ - SLOPE IS RATE OF S.E. OR 6% WHICHEVER IS GREATER

NOT TO SCALE

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD DESIGN

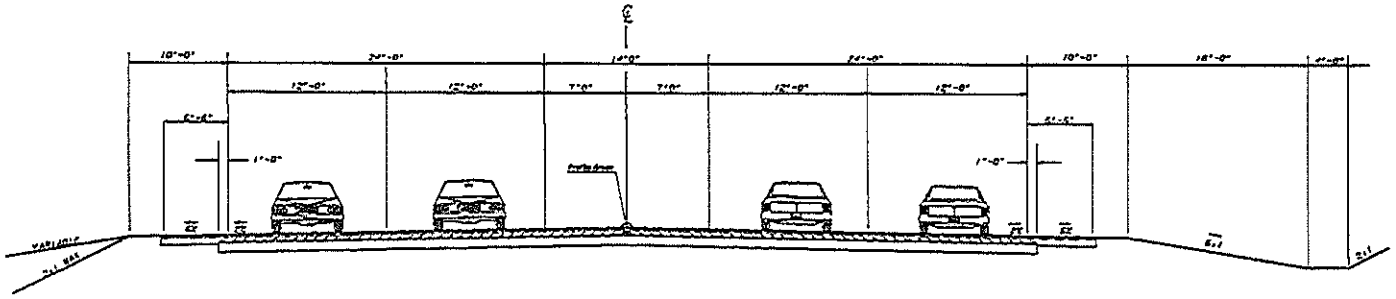
TYPICAL SECTIONS

0013614
MORGAN/PUTNAM COUNTY

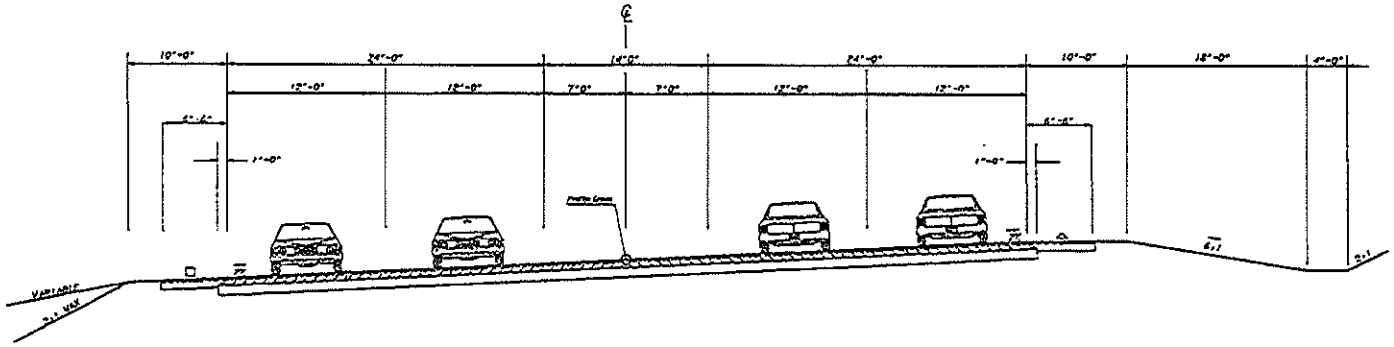
5-001

TYPICAL SECTION 3

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	EDS00-0441-00(044)		



Tangent



Superelvation

NOT TO SCALE

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROAD DESIGN

TYPICAL SECTIONS

EDS00-0441-00(044)
MORGAN / PUTNAM COUNTY

SHEET NO. 5-003

NOTICE OF LOCATION AND DESIGN APPROVAL

MORGAN COUNTY
P. I. NUMBER 0013614

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: **December 9, 2016**

Project 0013614 proposes to widen the existing US 441/SR 24 roadway from 2 and 3 lanes to 4 lanes with a 32 foot grassed median and 4 lanes with a 14 foot flush median. The project begins at the Putnam/Morgan County line and extends north 8.1 miles, approximately 250 feet north of CR 121 Pierce Dairy Road, approximately 100 feet before the intersection with I-20. Approximately 0.1 miles north of Sunlight Court the median begins tapering to a 14 foot flush median and ties into the existing five lane section located 0.06 miles north of CR 121/Pierce Dairy Road. The project ends just north of CR 121/Pierce Dairy Road. The total project length is approximately 8.1 miles. The project is in Land District 15 in Morgan County.

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:

Damon Frost, GDOT District 2 Area 5 Engineer
dfrost@dot.ga.gov
1570 Bethany Road
Madison, GA 30650
706-343-5836

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, Jr., GDOT Program Delivery Administrator
Office of Program Delivery
Attn: Frank Childs Jr., Project Manager
fchilds@dot.ga.gov
600 West Peachtree Street N.W.
Atlanta, GA 30308
478-553-3330

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.