DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
TIA PROJECT CONCEPT REPORT

Project Type:	Passing Lanes	P.I. Number:	0011428
GDOT District:	3	County:	Dooly
Federal Route Number:	41	MPO ID Number:	RC08-000017
State Route Number:	7		

Passing Lanes on S.R. 7/U.S. 41, Dooly County from Crisp County to Houston County. Project Length is 19.81 miles.

Submitted for approval:

Consultant & Firm: R. K. SHAH & ASSOCIATES, INC. — DATE: April 17, 2014

TIA Project Manager — DATE: 4/17/2014

TIA Program Manager — DATE: 17 Apr 2014

GDOT TIA Regional Coordinator — DATE: 4/21/2014

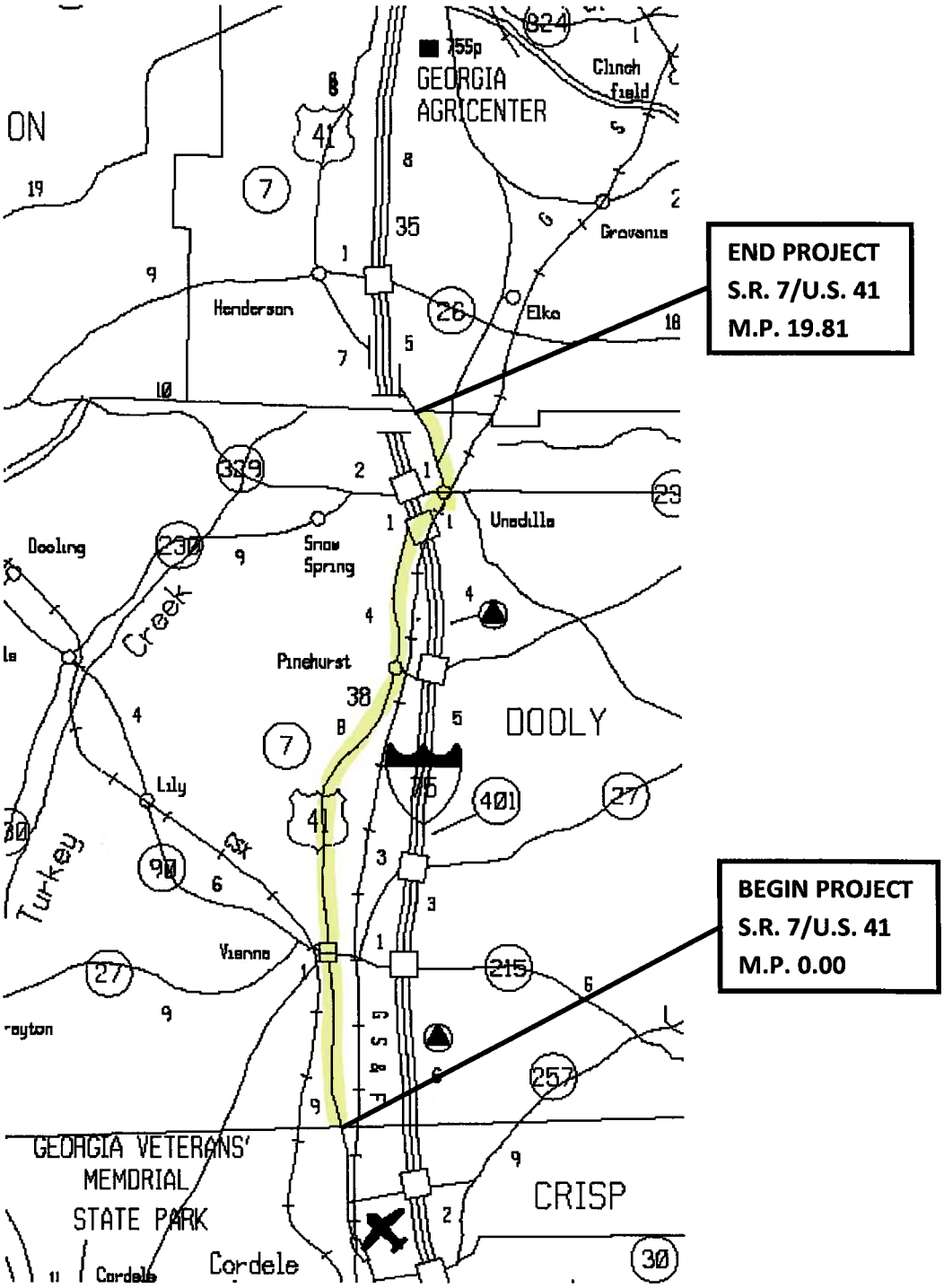
GDOT State TIA Administrator — DATE: 5/1/2014

Approval:

Concur: GDOT Director of Engineering — DATE: 5/2/14

Approve: GDOT Chief Engineer — DATE: 5/7/14

PROJECT LOCATION



PLANNING & BACKGROUND DATA

Description of the proposed project: This project would include construction of passing lanes at four locations along U.S. 41 from the Houston County line to the Crisp County line.

TIA Stated Benefits: This project could potentially maximize the full utility of an existing transportation facility through operational improvements and a potential reduction in the incidence of crashes along this roadway corridor. Implementing this passing lane project will provide many of the operational benefits of a full widening project with a far lower cost basis. Providing passing lanes will also ease travel along the corridor when agricultural equipment is in transport.

Federal Oversight: ☐ Exempt ☐ State Funded ☒ TIA ☐ Other

MPO: N/A MPO Project ID: N/A

Regional Commission: River Valley RC RC Project ID: RC08-000017

Congressional District(s): 2

Projected Traffic: *(if necessary)* AADT
Current Year (2014): 2500 Open Year (2015): 2650 Design Year (2035): 6100
Traffic Projections Performed by: R.K. Shah & Assoc.

Functional Classification (Mainline): Rural Minor Arterial

Is this a 3R (Resurfacing, Restoration, & Rehabilitation) Project? ☒ No ☐ Yes

Will Context Sensitive Solutions procedures be utilized? ☒ No ☐ Yes

DESIGN AND STRUCTURAL DATA –

Mainline Design Features: U.S. 41/S.R. 7

Feature	Existing	Standard*	Proposed
Typical Section			
- Number of Lanes	2	2	2
- Lane Width(s)	12 ft.	12 ft.	12 ft.
- Median Width & Type	N/A	N/A	N/A
- Outside Shoulder or Border Area Width	10 ft.	10 ft.	10 ft.
- Outside Shoulder Slope	4:1	4:1	4:1
- Inside Shoulder Width	N/A	N/A	N/A
- Sidewalks	N/A	N/A	N/A
- Auxiliary Lanes	N/A	1	1
- Bike Lanes	N/A	N/A	N/A
Posted Speed	Varies		55 mph
Design Speed	Varies	55 mph	55 mph
Min Horizontal Curve Radius	Varies	1060	1060

Superelevation Rate	**Varies**	**6%**	**6%**
Grade	**Varies**	**4%**	**4%**
Access Control	**By Permit**	**By Permit**	**By Permit**
Right-of-Way Width	**Varies**	**80 ft.**	**80 ft.**
Maximum Grade – Crossroad	**Varies**	**6%**	**6%**
Design Vehicle	**Varies**	**WB-67**	**WB-67**

*According to current GDOT design policy if applicable

Major Structures: N/A

Major Interchanges/Intersections: Existing traffic signal at Union Street(S.R. 27/ 90) in Vienna

Utility Involvements: None Anticipated

Public Interest Determination Policy and Procedure recommended (Utilities)? ☒ No ☐ Yes

SUE Required: ☒ No ☐ Yes

Railroad Involvement: None Anticipated

Complete Streets - Bicycle, Pedestrian, and/or Transit Warrants:
Warrants met: ☒ None ☐ Bicycle ☐ Pedestrian ☐ Transit

Right-of-Way:
Required Right-of-Way anticipated: ☐ No ☒ Yes ☐ Undetermined
Easements anticipated: ☐ None ☒ Temporary ☐ Permanent ☐ Utility ☐ Other

Location	#1	#2	#3	#4	Total
Anticipated number of impacted parcels:	9	3	2	3	17
Displacements Anticipated:	0	0	0	0	0
Businesses:	0	0	0	0	0
Residences:	5	0	0	0	5
Other(Farmland):	4	3	2	3	12

Transportation Management Plan [TMP] Required: ☒ No ☐ Yes
If Yes: Project classified as: ☐ Non-Significant ☐ Significant
TMP Components Anticipated: ☐ TTC ☐ TO ☐ PI

Design Exceptions to FHWA/AASHTO controlling criteria anticipated: None Anticipated

Design Variances to GDOT Standard Criteria anticipated: None Anticipated

ENVIRONMENTAL DATA

Anticipated Environmental Document:

GEPA: ☐ Type A Letter ☒ Type B Letter
NEPA: ☐ CE ☐ EA/FONSI

Project Air Quality: *(On-system projects only)*

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

MS4 Compliance – Is the project located in an MS4 area? ☒ No ☐ Yes

Environmental Permits/Variances/Commitments/Coordination anticipated (*Include description of potential for 404 Permit, Stream Buffer Variance, and Section 4(f)***):** Stream Buffers may be impacted at five locations and there is potential for a 404 Permit.

NEPA/GEPA Comments & Information: A Type 'B' Letter is anticipated.

PROJECT RESPONSIBILITIES

Project Activities:

Project Activity	Party Responsible for Performing Task(s)
Concept Development	TIA Program Management
Design	GDOT/TIA
Right-of-Way Acquisition	GDOT/TIA
Utility Relocation	Utility Owners
Letting to Contract	GDOT/TIA
Construction Supervision	GDOT/TIA
Providing Material Pits	Construction Contractor
Providing Detours	N/A
Environmental Studies, Documents, and Permits	GDOT/TIA
Environmental Mitigation	GDOT/TIA
Construction Inspection & Materials Testing	GDOT/TIA

Lighting required: ☒ No ☐ Yes

Other projects in the area: M004618 – S.R. 7 Maintenance Resurfacing/N. of Unadilla
0010601 – S.R. 7 Enhancement/Unadilla
0010600 – S.R. 7 Pedestrian Enhancement/Vienna
M004570 – S.R. 7 Culvert Rehabilitation/Pennehatchee Cr./Vienna

Other coordination to date: None

Project Cost Estimate and Funding Responsibilities:

	Breakdown of PE	ROW	Reimbursable Utility	CST*	Environmental Mitigation	Total Cost
By Whom	GDOT/TIA	GDOT/TIA	GDOT/TIA	GDOT/TIA	GDOT/TIA	
$ Amount	630,000	178,890	351,000	2,667,444	0	$3,827,334
Date of Estimate	3/14/2014	3/14/2014	3/14/2014	4/11/2014	3/14/2014	

*CST Cost includes Construction and Engineering and Inspection(E&I).

ALTERNATIVES

Preferred Alternative:			
Estimated Property Impacts:	**17**	**Estimated Total Cost:**	**$3,827,334**
Estimated ROW Cost:	**$178,890**	**Estimated CST Time:**	**12 mo.**
Rationale:			

Alternative 1: *if applicable*			
Estimated Property Impacts:		**Estimated Total Cost:**	
Estimated ROW Cost:		**Estimated CST Time:**	
Rationale			

Comments/additional information:

Attachments:

1. Concept Layout(County line to County line)
2. Concept Sketch(Location #1 and #2)
3. Concept Sketch(Location #3)
4. Concept Sketch(Location #4)
5. Typical section
6. Cost Estimate(E&I and Summary)
7. Cost Estimate(CES)
8. Cost Estimate(R/W)
9. Cost Estimate(Utilities)

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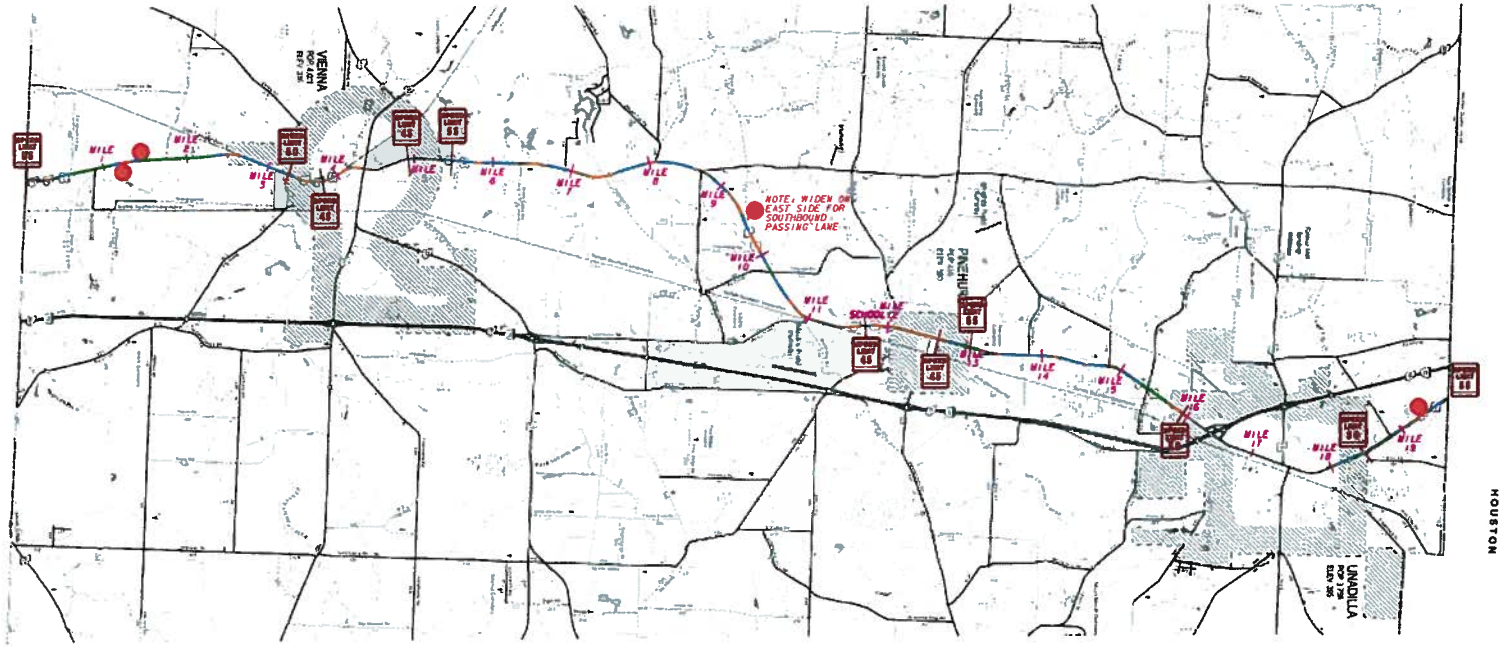
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA			



EXISTING CONDITIONS

- NO PASSING
- PASSING (ONE DIRECTION)
- PASSING
- EXISTING 3-LANE SECTION

PASSING LANE LENGTH

DESIRABLE
5280 FT (1 MILE)

MINIMUM
3380 FT (0.63 MILE)

POSSIBLE LOCATION OF PASSING LANE

FEB 21, 2014 (2)
FEB 21, 2014
FEB 5, 2014

SCALE IN FEET
0 4000 8000 16000

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TIA PROGRAM MANAGEMENT

MAINLINE PLAN
EXISTING CONDITIONS

TSPLOST US 41 PASSING LANES
PI 0011428 DOOLY COUNTY

DRAWING No. 13-000

02/24/2014 GPLS

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EXISTING CENTERLINE
EXISTING EDGE OF PAVEMENT
PROPOSED EDGE OF PAVEMENT

SCALE IN FEET
0 300 600 1200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TIA TSPLOST

LOCATIONS #1 AND #2
MILEPOST 1.5 NORTHBOUND AND SOUTHBOUND

TSPLOST US 41 PASSING LANES
PI 0011428 DOOLY COUNTY

DRAWING No.

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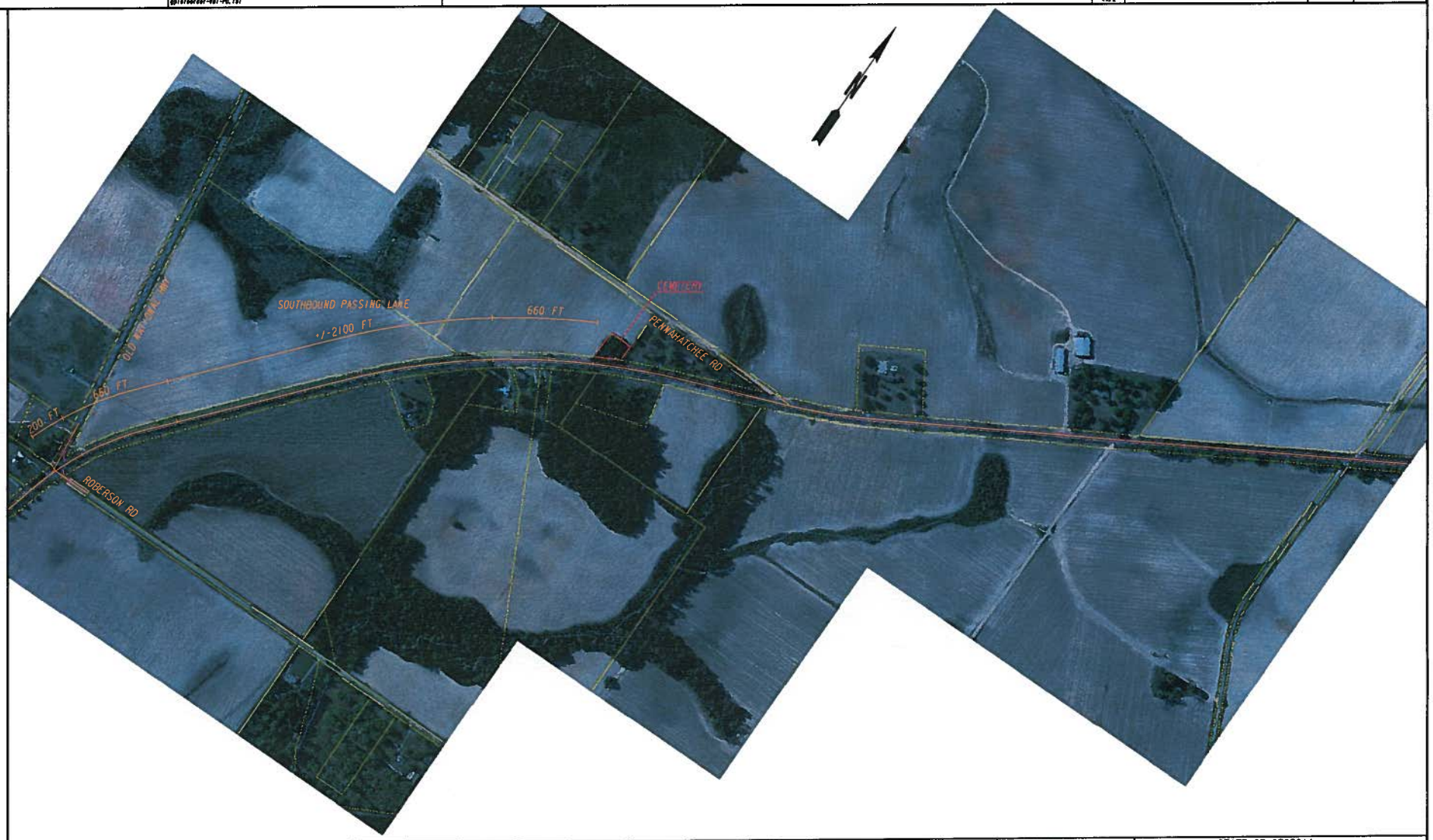

EXISTING CENTERLINE
EXISTING EDGE OF PAVEMENT
PROPOSED EDGE OF PAVEMENT

SCALE IN FEET
0 300 600 1200

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TIA TSPLOST

LOCATION #3
MILEPOST 9.5 SOUTHBOUND

TSPLOST US 41 PASSING LANES
PI 0011428 DOOLY COUNTY

DRAWING No.

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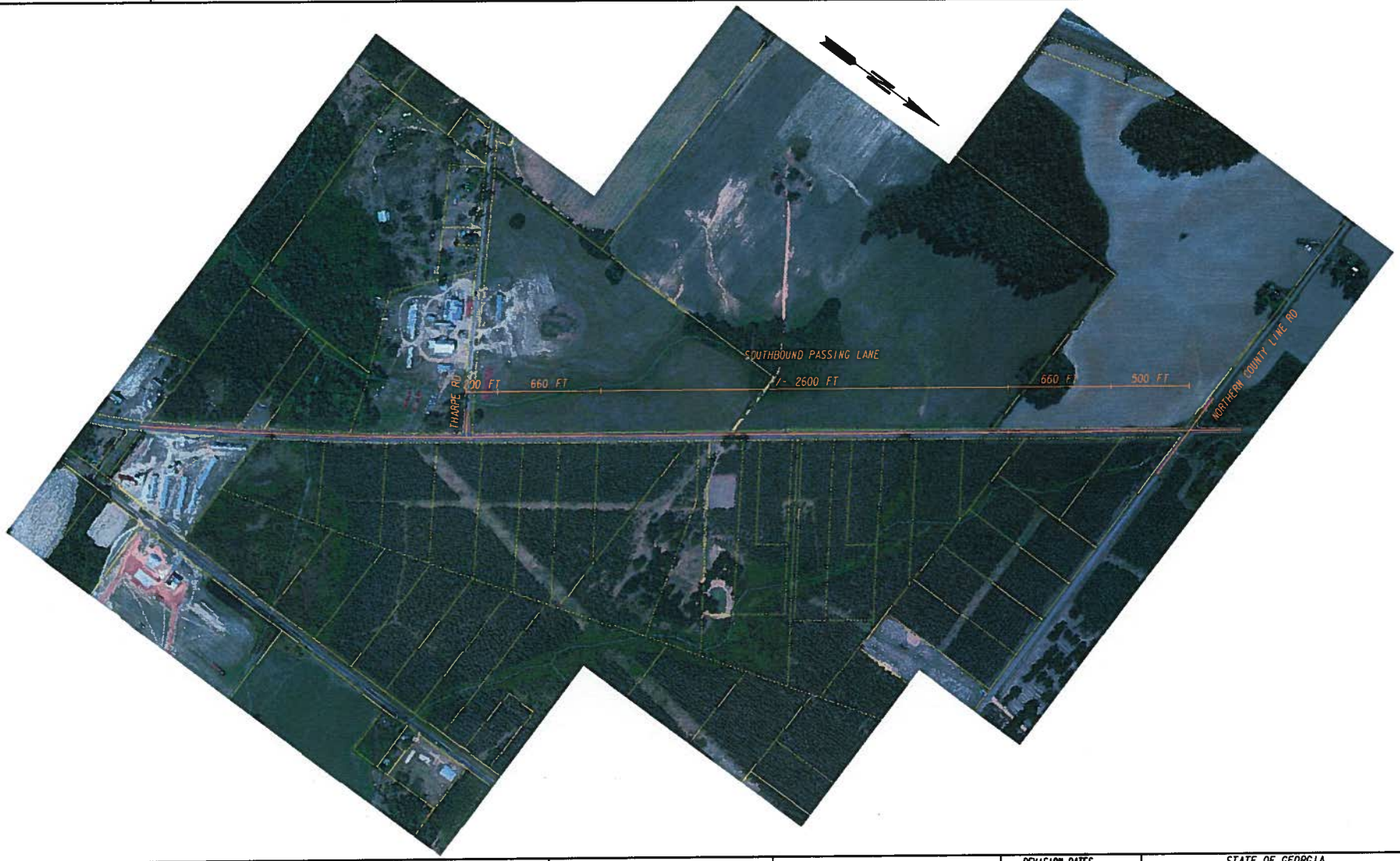


EXISTING CENTERLINE
EXISTING EDGE OF PAVEMENT
PROPOSED EDGE OF PAVEMENT

SCALE IN FEET
0 300 600 1200

REVISION DATES

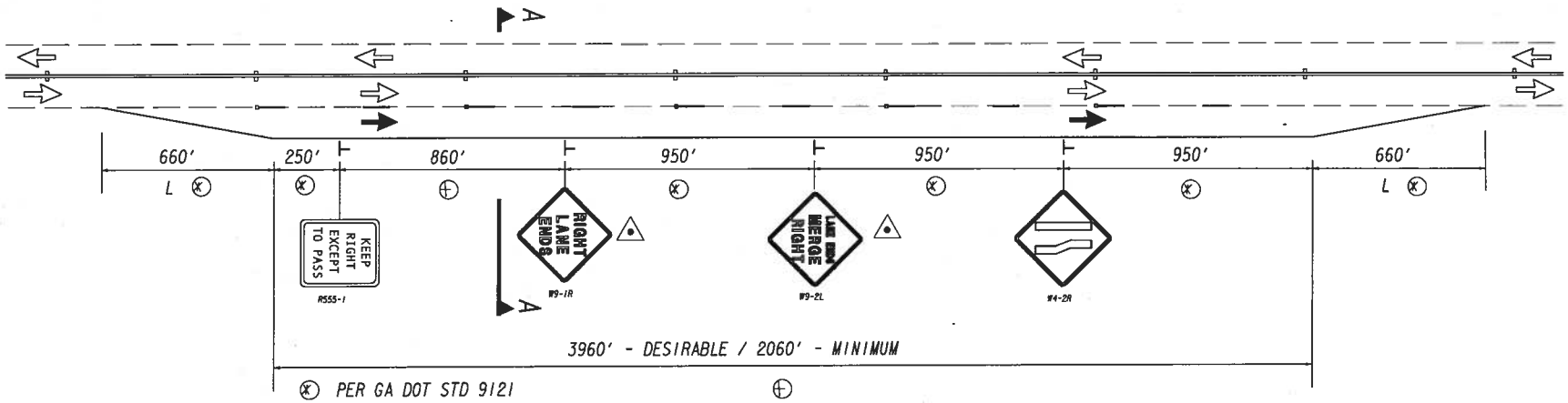
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: TIA TSPLOST

LOCATION #4
MILEPOST 19 SOUTHBOUND

TSPLOST US 41 PASSING LANES
PI 0011428 DOOLY COUNTY

DRAWING No.

COUNTY	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
DOOLY			



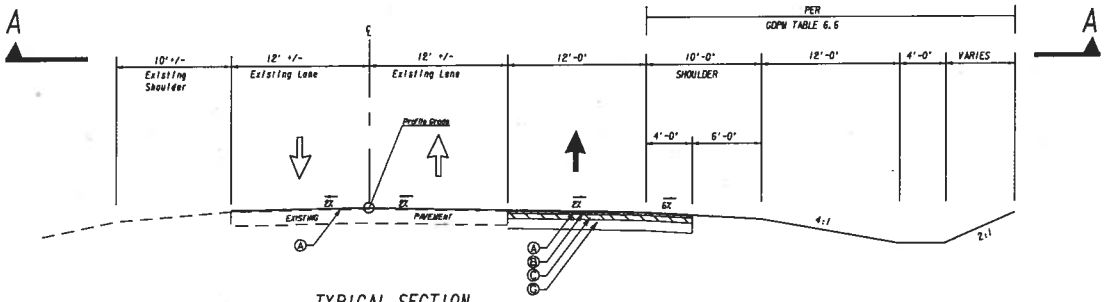
(K) PER GA DOT STD 9121

(+) PER AASHTO 2011 - TABLE 3-31

(△) THESE SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT

SR 7/ US 41
TYPICAL PASSING LANE DETAIL

NOT TO SCALE



TYPICAL SECTION

NOT TO SCALE

PAVEMENT STRUCTURE
PER
"GUIDELINES FOR SUPERPAVE AND OTHER MIX TYPES SELECTION" LETTER REVISED 3/18/2011

(A) 1¼" RECYCLED ASPH CONC 9.5 MM SUPERPAVE, TYPE II GP 2 ONLY, INCL BITUM MATL & H LIME , 135 LB/SY
(B) 2" RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME , 220 LB/SY
(C) 4" RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME , 440 LB/SY
(D) 8" GRADED AGGREGATE BASE

R.K. SHAH & ASSOCIATES, INC.
ENGINEERS
TRANSPORTATION / SITE / CIVIL
1280 WINCHESTER PARKWAY
BUILDING 1280, SUITE 240
ATLANTA, GEORGIA 30080
TELEPHONE 770/436-5070

GEORGIA
DEPARTMENT OF TRANSPORTATION

NO SCALE

REVISION DATES		

STATE OF GEORGIA
DEPARTMENT OF TRANSPORATION
OFFICE: TIA PROGRAM MANAGEMENT

SR 7/ US 41 PASSING LANE DETAIL AND TYPICAL SECTION

DRAWING No. -01

PROJ. NO.: RC08-000017
P.I. NO. 0011428
DATE: 4/9/2014

Base Construction Cost		$	2,540,422.79
E & I	5%	$	127,021.14
Construction Contingency	0%	$	-
Total Construction Cost(CST)		$	2,667,443.93

Preliminary Engineering Cost	$	630,000.00
Right of Way Cost	$	178,890.00
Reimbursable Utility Cost	$	351,000.00
Total Construction Cost(CST)	$	2,667,444.00
Environmental Mitigation Cost	$	-
Total Project Cost	$	3,827,334.00

STATE HIGHWAY AGENCY

DATE : 04/11/2014
PAGE : 1

JOB ESTIMATE REPORT

JOB NUMBER : 0011428 SPEC YEAR: 01
DESCRIPTION: TIA SR 7/US 41 DOOLY
PASSING LANE LOCATIONS #1, #2, #3 AND #4

ITEMS FOR JOB 0011428

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - RC08-000017	1.000	200000.00	200000.00
0015	210-0100		LS	GRADING COMPLETE - RC08-000017	1.000	500000.00	500000.00
0020	310-1101		TN	GR AGGR BASE CRS, INCL MATL	12800.000	20.08	257142.78
0025	318-3000		TN	AGGR SURF CRS	100.000	19.57	1957.04
0030	402-1801		TN	RECYL AC PATCHING, INCL BM	2400.000	83.46	200304.00
0035	402-3121		TN	RECYL AC 25MM SP,GP1/2,BM&HL	6200.000	66.82	414314.69
0040	402-3103		TN	REC AC 9.5 MM SP,TPII,GP2, INCL BM & H L	5500.000	78.43	431375.45
0050	402-3190		TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	3050.000	73.36	223765.42
0055	413-1000		GL	BITUM TACK COAT	5700.000	3.12	17810.96
0057	446-1100		LF	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	15600.000	3.17	49453.72
0060	550-1240		LF	STM DR PIPE 24",H 1-10	102.000	51.91	5295.20
0065	550-1300		LF	STM DR PIPE 30",H 1-10	170.000	61.07	10382.08
0070	550-1360		LF	STM DR PIPE 36",H 1-10	68.000	87.59	5956.51
0075	550-2180		LF	SIDE DR PIPE 18",H 1-10	350.000	29.42	10298.46
0080	550-3318		EA	SAFETY END SECTION 18",STD,4:1	36.000	653.60	23529.83
0085	550-4224		EA	FLARED END SECT 24 IN, ST DR	3.000	590.59	1771.77
0090	550-4230		EA	FLARED END SECT 30 IN, ST DR	5.000	671.08	3355.43
0095	550-4236		EA	FLARED END SECT 36 IN, ST DR	2.000	1079.05	2158.11
0099	573-2006		LF	UNDDR PIPE INCL DRAIN AGGR 6"	2000.000	16.46	32925.22
0100	603-2181		SY	STN DUMPED RIP RAP, TP 3, 18"	132.000	38.05	5023.43
0105	603-7000		SY	PLASTIC FILTER FABRIC	132.000	3.76	496.38
0110	634-1200		EA	RIGHT OF WAY MARKERS	16.000	110.59	1769.53
0130	700-6910		AC	PERMANENT GRASSING	11.000	517.38	5691.20
0135	700-7000		TN	AGRICULTURAL LIME	33.000	73.67	2431.12
0140	700-8000		TN	FERTILIZER MIXED GRADE	10.000	503.44	5034.47
0145	700-8100		LB	FERTILIZER NITROGEN CONTENT	550.000	2.11	1161.98
0150	163-0232		AC	TEMPORARY GRASSING	6.000	71.26	427.60
0155	163-0240		TN	MULCH	50.000	238.05	11902.87
0160	163-0300		EA	CONSTRUCTION EXIT	8.000	1083.51	8668.14
0165	163-0527		EA	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	156.000	226.90	35397.54
0170	163-0550		EA	CONS & REM INLET SEDIMENT TRAP	10.000	150.97	1509.75
0175	165-0010		LF	MAINT OF TEMP SILT FENCE, TP A	7790.000	0.55	4289.95
0180	165-0030		LF	MAINT OF TEMP SILT FENCE, TP C	779.000	0.78	608.27
0185	165-0041		LF	MAINT OF CHECK DAMS - ALL TYPES	156.000	1.75	274.55
0190	165-0101		EA	MAINT OF CONST EXIT	8.000	523.24	4185.97
0195	165-0105		EA	MAINT OF INLET SEDIMENT TRAP	10.000	42.00	420.07
0200	167-1000		EA	WATER QUALITY MONITORING AND SAMPLING	4.000	198.45	793.81
0205	167-1500		MO	WATER QUALITY INSPECTIONS	12.000	380.33	4564.02
0210	171-0010		LF	TEMPORARY SILT FENCE, TYPE A	15580.000	1.79	27983.55

JOB ESTIMATE REPORT

0215	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	1558.000	3.52	5498.07
0220	636-1020	SF	HWY SGN,TP1MAT,REFL SH TP3	192.000	13.43	2578.82
0230	636-2070	LF	GALV STEEL POSTS, TP 7	616.000	6.28	3873.28
0235	653-2501	LM	THERMO SOLID TRAF ST, 5 IN, WH	3.000	1657.01	4971.05
0240	653-2502	LM	THERMO SOLID TRAF ST, 5 IN YE	3.000	1716.95	5150.88
0244	653-4501	GLM	THERMO SKIP TRAF ST, 5 IN, WHI	2.000	1078.40	2156.81
0245	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	12.000	6.96	83.60
0250	654-1001	EA	RAISED PVMT MARKERS TP 1	400.000	3.22	1291.06
0255	654-1002	EA	RAISED PVMT MARKERS TP 2	120.000	3.23	388.35

ITEM TOTAL	2540422.78
INFLATED ITEM TOTAL	2540422.79

TOTALS FOR JOB 0011428

ESTIMATED COST:	2540422.79
CONTINGENCY PERCENT (0.0):	0.00
ESTIMATED TOTAL:	2540422.79

PI 0011428, Dooly County
US 41/SR 7 Passing Lanes

Residential -	$ 30,000.00	/ac
Farmland -	$ 7,500.00	/ac

Right of Way

Location #1

Total Parcels:	9
Displacements:	0
Residential:	5
Commercial:	0
Other(Farmland):	4

	Area			Price			Cost
Reqd R/W(Res.):	25000	sf		$ 0.69	/sf		$ 17,217.63
Reqd R/W(Land):	65400	sf		$ 0.17	/sf		$ 11,260.33
Temp Esmt:	22600	sf		$ 0.32	/sf		$ 7,119.49
							$ 35,597.45

Location #2

Total Parcels:	3
Displacements:	0
Residential:	0
Commercial:	0
Other(Farmland):	3

	Area			Price			Cost
Reqd R/W(Res.):	0	sf		$ 0.69	/sf		$ -
Reqd R/W(Land):	74400	sf		$ 0.17	/sf		$ 12,809.92
Temp Esmt:	18600	sf		$ 0.17	/sf		$ 3,202.48
							$ 16,012.40

Location #3

Total Parcels:	2
Displacements:	0
Residential:	0
Commercial:	0
Other(Farmland):	2

	Area			Price			Cost
Reqd R/W(Res.):	0	sf		$ 0.69	/sf		$ -
Reqd R/W(Land):	68400	sf		$ 0.17	/sf		$ 11,776.86
Temp Esmt:	17100	sf		$ 0.17	/sf		$ 2,944.21
							$ 14,721.07

Location #4

Total Parcels:	3
Displacements:	0
Residential:	0
Commercial:	0
Other(Farmland):	3

	Area			Price			Cost
Reqd R/W(Res.):	0	sf		$ 0.69	/sf		$ -
Reqd R/W(Land):	78400	sf		$ 0.17	/sf		$ 13,498.62
Temp Esmt:	19600	sf		$ 0.17	/sf		$ 3,374.66
							$ 16,873.28

Subtotal-Right of Way		**$ 83,204.20**
Scheduling Contingency	55%	**$ 45,762.31**
Admin/Court Costs	60%	**$ 49,922.52**
Project Total-Right of Way		**$ 178,889.03**

PI 0011428, Dooly County
US 41/SR 7 Passing Lanes

Utilities $ 15,000.00 /pole

Location #1
Overhead Poles: 0

	Price			Cost
Poles	$ 15,000.00	/ea		$ -
				$ -

Location #2
Overhead Poles: 2

	Price			Cost
Poles	$ 15,000.00	/ea		$ 30,000.00
				$ 30,000.00

Location #3
Overhead Poles: 2

	Price			Cost
Poles	$ 15,000.00	/ea		$ 30,000.00
				$ 30,000.00

Location #4
Overhead Poles: 14

	Price			Cost
Poles	$ 15,000.00	/ea		$ 210,000.00
				$ 210,000.00

Project Subtotal-Utilities		**$ 270,000.00**
Contingency-Utilities	30%	**$ 81,000.00**
Project Total-Utilities		**$ 351,000.00**