

09/08/99

CONTRACT: DA00372 WBS PROJECT: 2018CPT.01.03.10081.1, ETC.

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

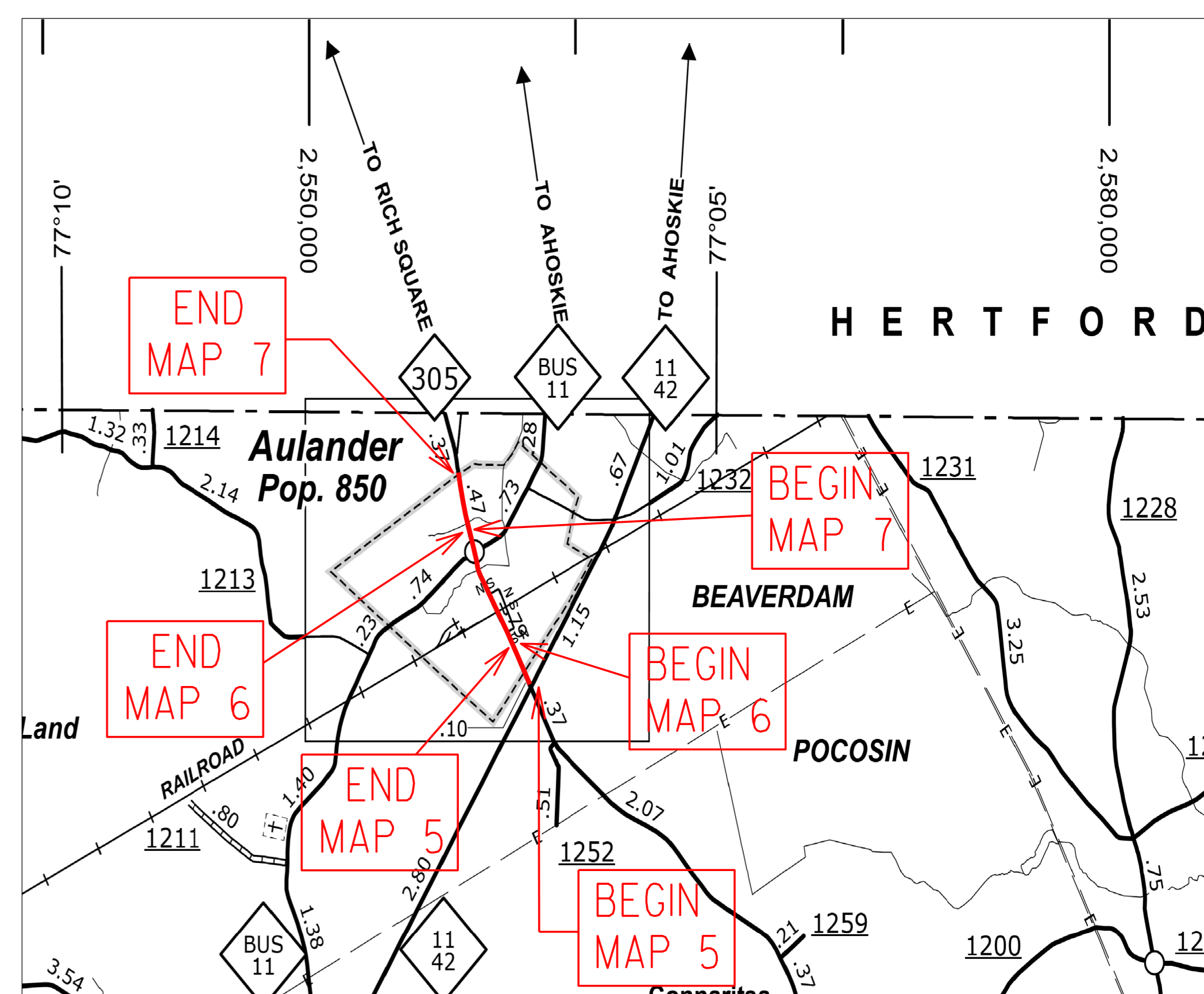
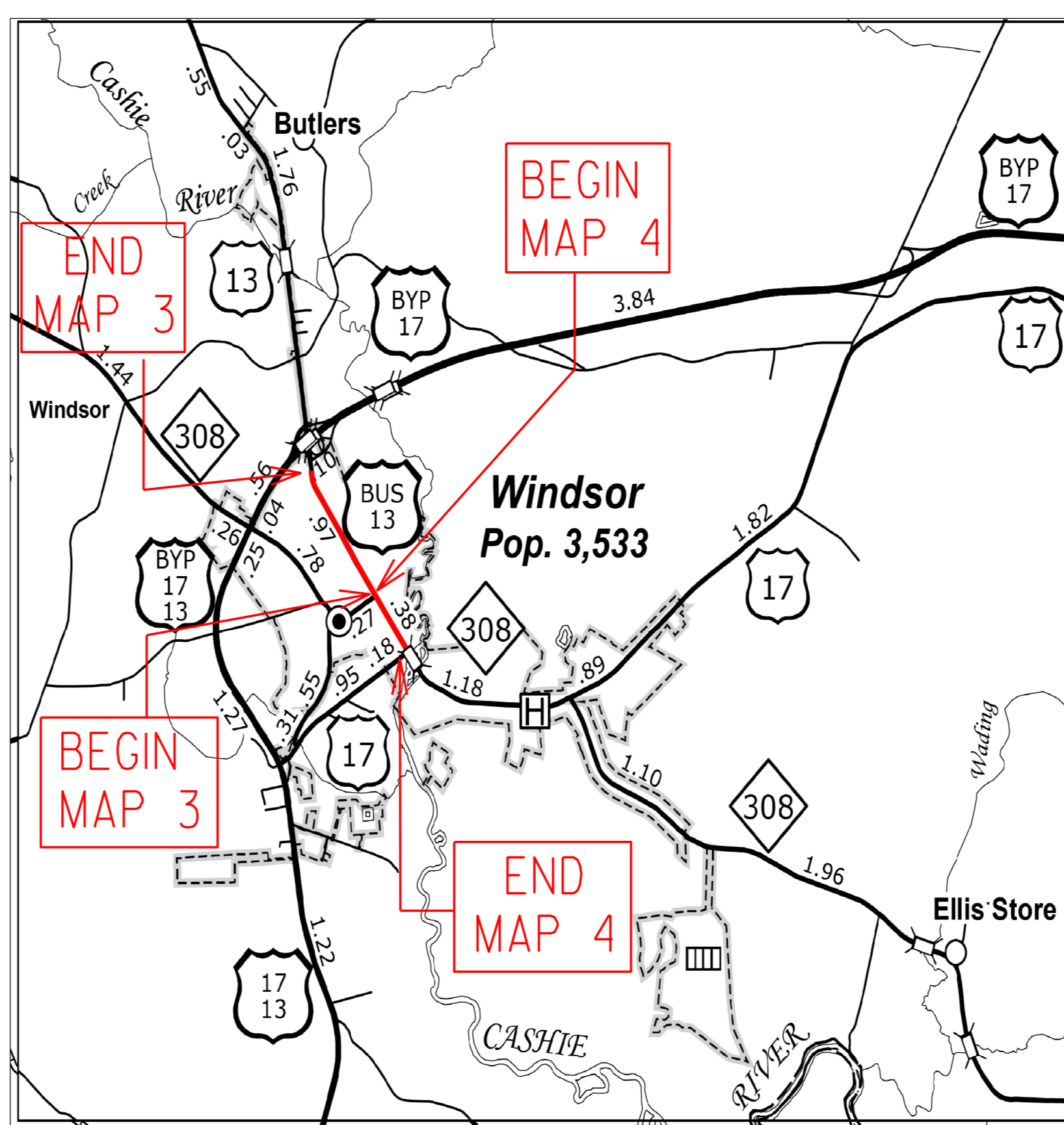
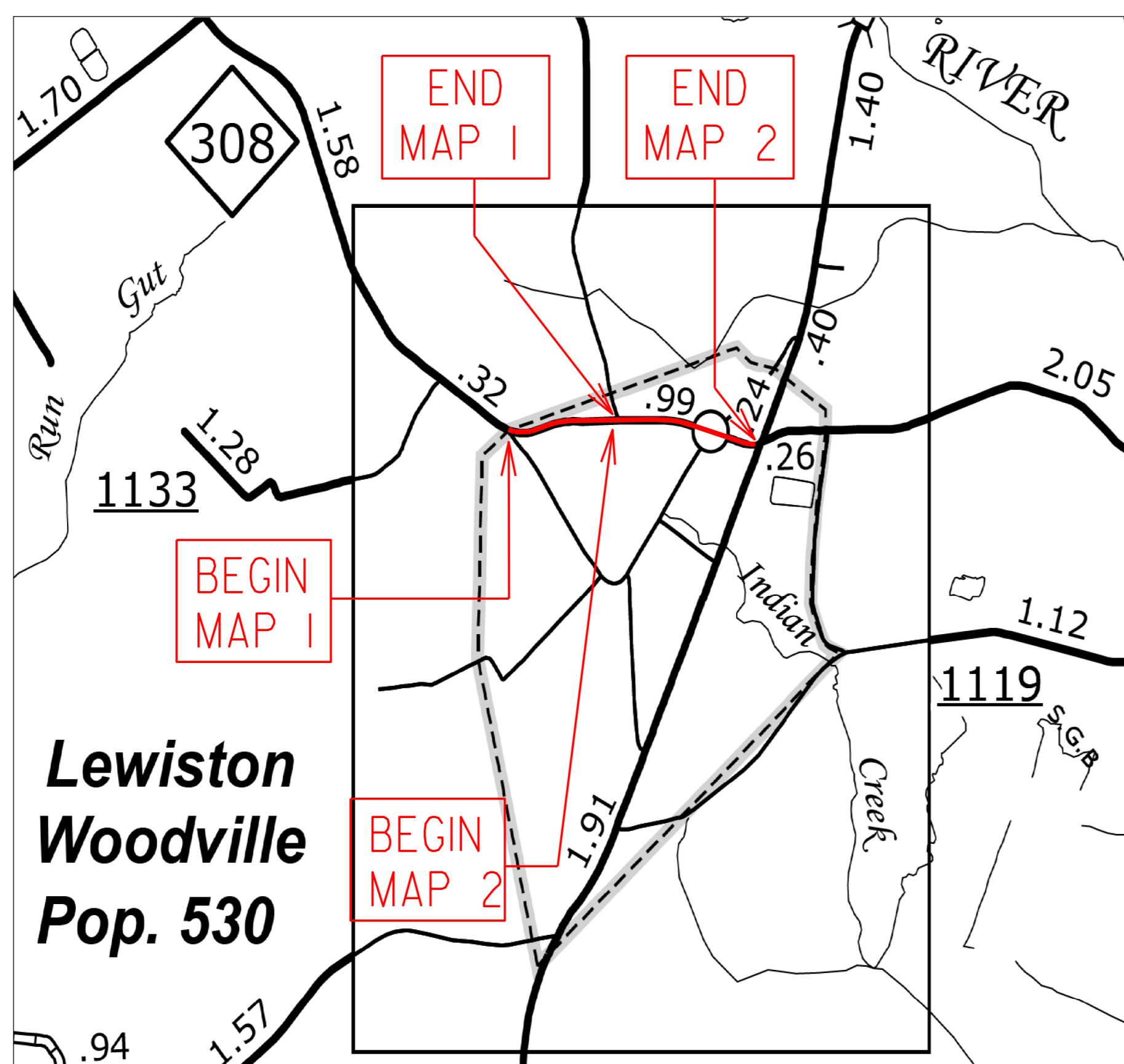
BERTIE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2018CPT.01.03.10081.1, ETC.	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2018CPT.01.03.10081.1		MAP 1	
2018CPT.01.03.10081.1		MAP 2	
2018CPT.01.03.10081.1		MAP 3	
2018CPT.01.03.10081.1		MAP 4	
2018CPT.01.03.10081.1		MAP 5	
2018CPT.01.03.10081.1		MAP 6	
2018CPT.01.03.10081.1		MAP 7	



LOCATION: MAP 1 NC 308 FROM WCL LEWISTON TO BEGINNING OF CURB AND GUTTER
MAP 2 NC 308 FROM BEGIN CURB AND GUTTER TO NC 11
MAP 3 US 13 BUS. FROM NC 308 TO VILLAGE AVE.
MAP 4 NC 308 FROM US 13 BUS. TO US 17
MAP 5 NC 305 FROM NC 11 TO BEGINNING OF CURB AND GUTTER
MAP 6 NC 305 FROM BEGINNING OF CURB AND GUTTER TO END OF CURB AND GUTTER
MAP 7 NC 305 FROM END OF CURB AND GUTTER TO NCL AULANDER

TYPE OF WORK: MILLING, RESURFACING, & PAVEMENT MARKINGS



NOT TO SCALE

PROJECT LENGTH

- LENGTH OF ROADWAY PROJECT MAP 1 = 0.65 MI.
- LENGTH OF ROADWAY PROJECT MAP 2 = 0.33 MI.
- LENGTH OF ROADWAY PROJECT MAP 3 = 0.68 MI.
- LENGTH OF ROADWAY PROJECT MAP 4 = 0.46 MI.
- LENGTH OF ROADWAY PROJECT MAP 5 = 0.27 MI.
- LENGTH OF ROADWAY PROJECT MAP 6 = 0.66 MI.
- LENGTH OF ROADWAY PROJECT MAP 7 = 0.42 MI.

Prepared in the Office of:
DIVISION OF HIGHWAYS

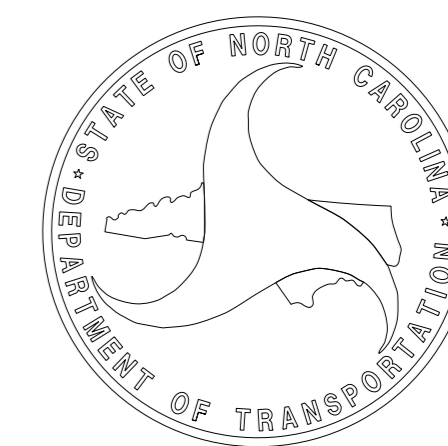
113 Airport Dr., Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

LETTING DATE:

W.B. HOBBS, P.E.
DIVISION PROJECT MANAGER

C.E. SLACHTA
DIVISION PROPOSALS ENGINEER



\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$DDN\$\$\$\$\$
\$\$\$\$\$USERNAME\$\$\$\$\$

09/08/99

CONTRACT: DA00372 WBS PROJECT: 2018CPT.01.03.10081.1, ETC.

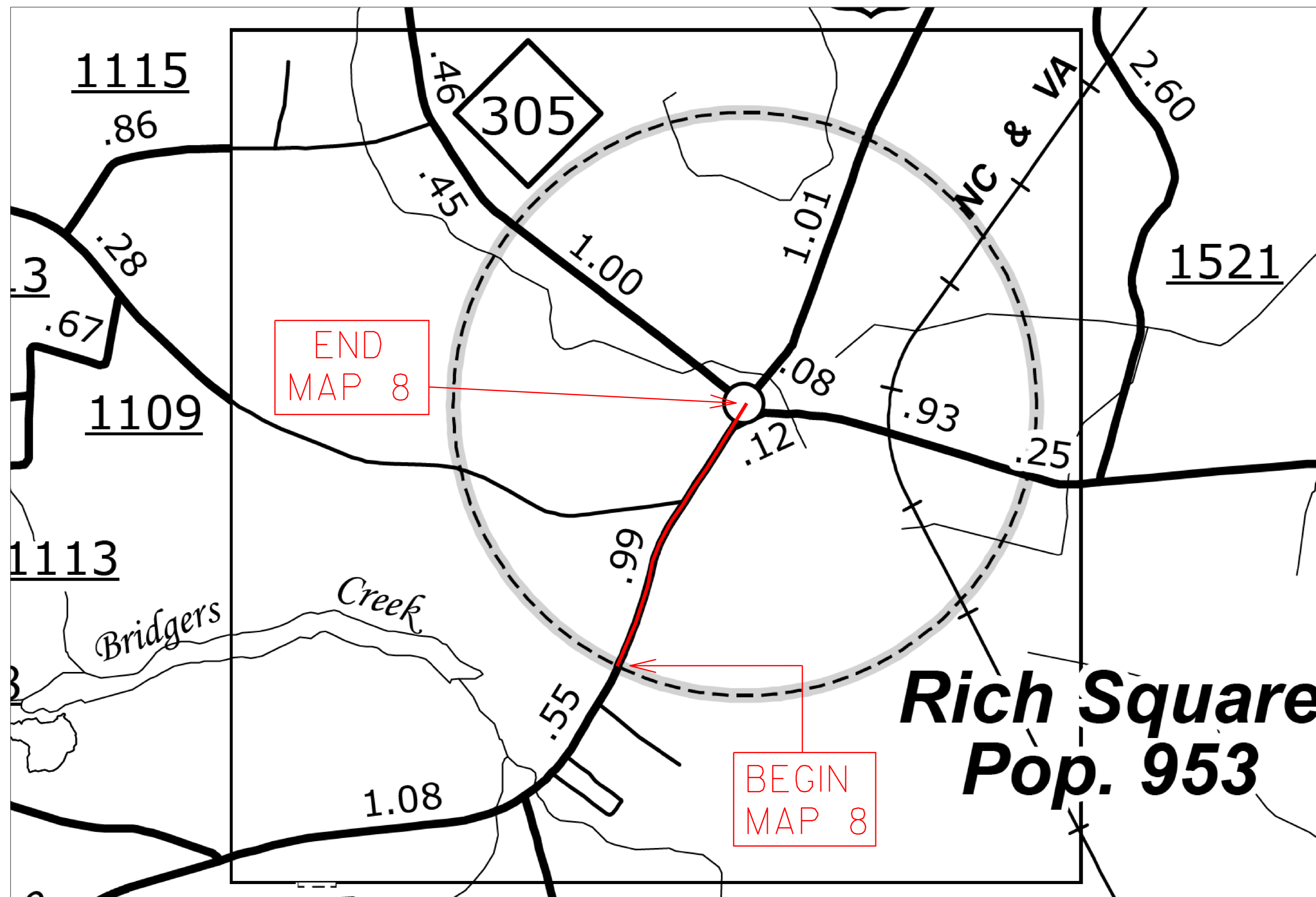
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	2018CPT.01.03.10081.1, ETC.	1A	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2018CPT.01.03.10661.1		MAP 8	

NORTHAMPTON COUNTY

LOCATION: MAP 8 US 258 FROM SCL RICH SQUARE TO NC 305

TYPE OF WORK: MILLING, RESURFACING, & PAVEMENT MARKINGS



NOT TO SCALE

PROJECT LENGTH

LENGTH OF ROADWAY PROJECT MAP 8 = 0.97 MI.

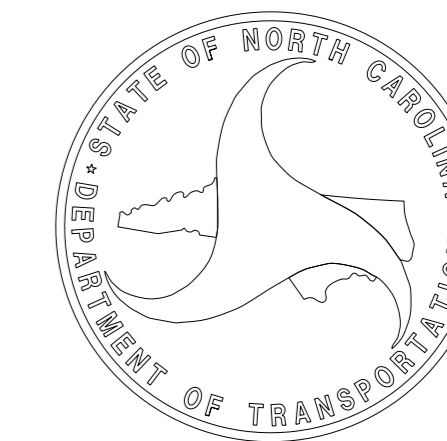
Prepared in the Office of:
DIVISION OF HIGHWAYS
113 Airport Dr., Edenton NC, 27932

2012 STANDARD SPECIFICATIONS

LETTING DATE:

W.B. HOBBS, P.E.
DIVISION PROJECT MANAGER

C.E. SLACHTA
DIVISION PROPOSALS ENGINEER



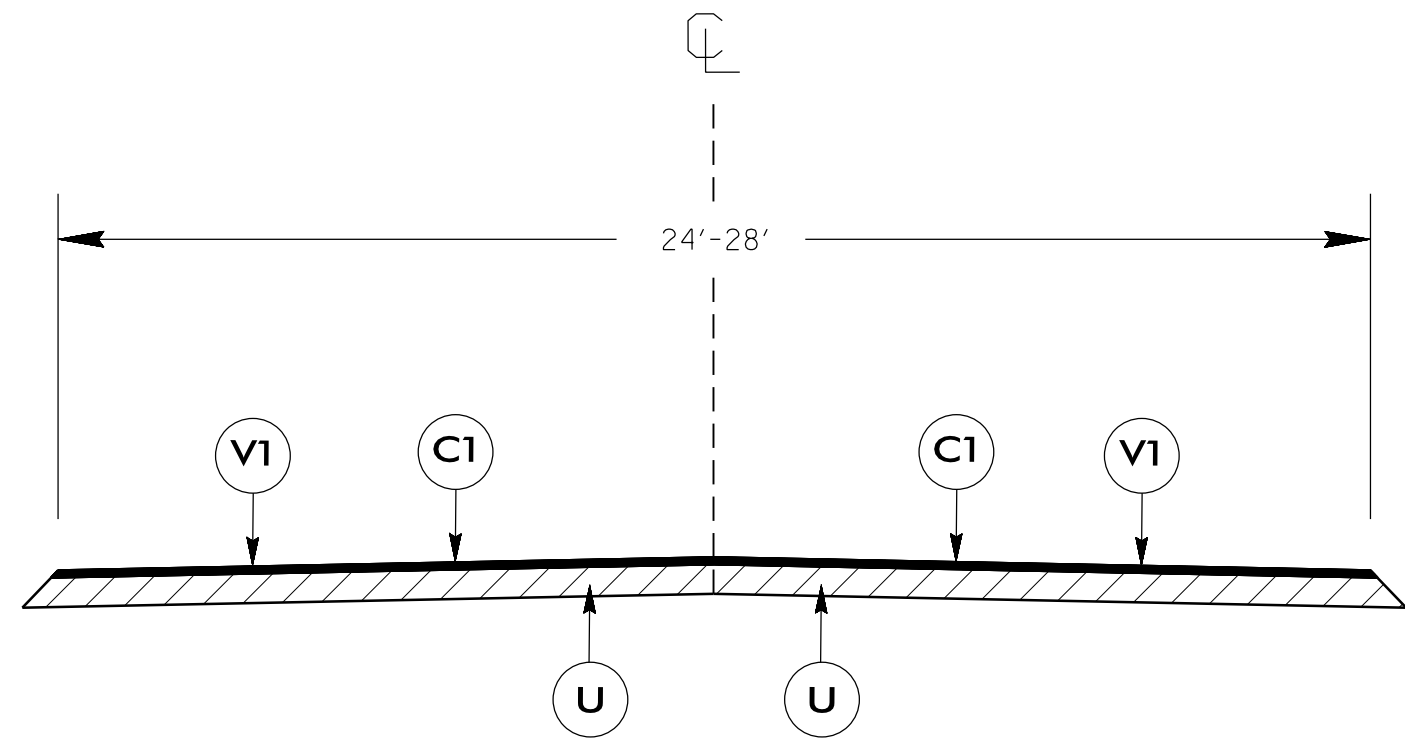
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\$\$\$\$\$USERNAME\$\$\$\$\$

P A V E M E N T S C H E D U L E

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING BITUMINOUS PAVEMENT. 1.5"DEPTH.
U	EXISTING PAVEMENT.

NOTES:

*ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.



TYPICAL SECTION NO. 1

USE WITH MAPS 1, 5 & 7

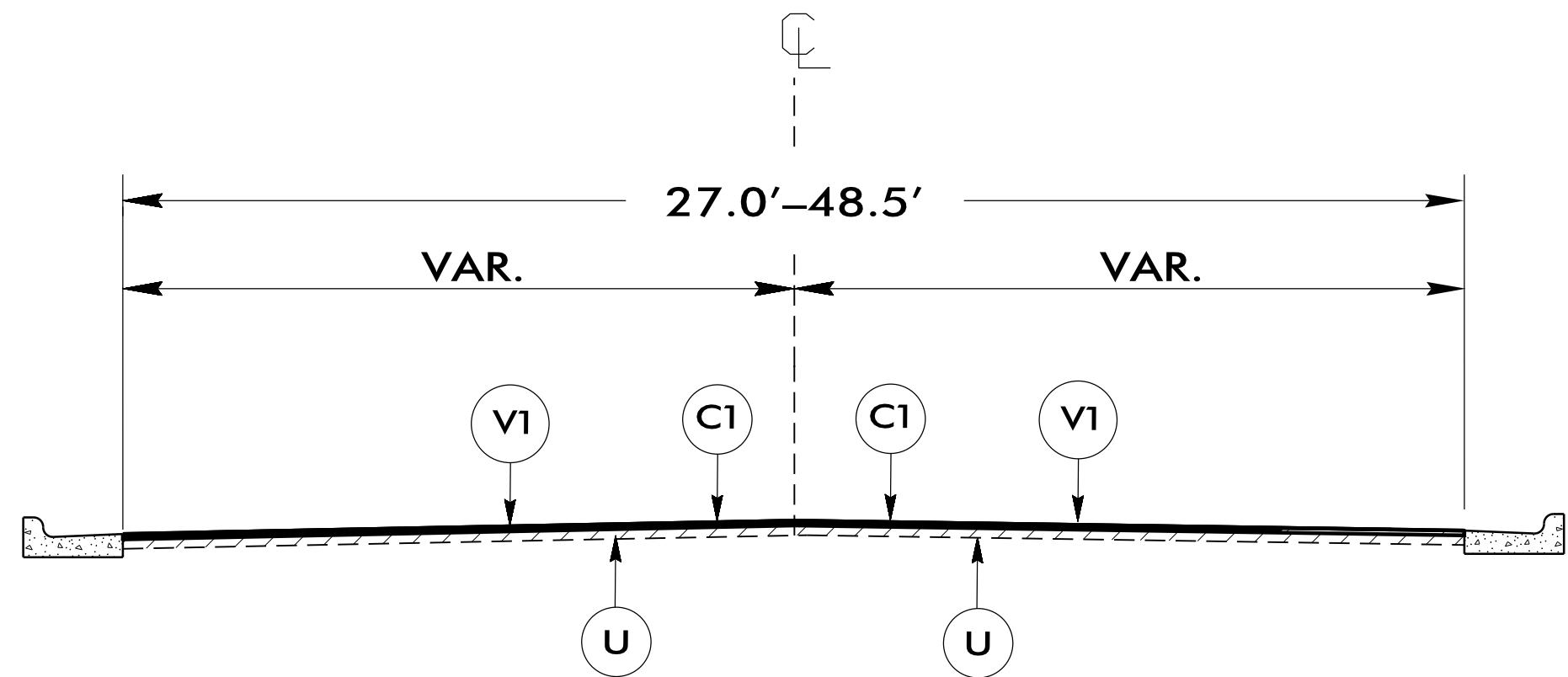
NTS

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V1	MILLING BITUMINOUS PAVEMENT. 1.5" IN DEPTH.
U	EXISTING PAVEMENT.

NOTES:

- *ALL PAVED S.R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII., OR AS DIRECTED BY THE ENGINEER.
- *EDGES, PAVEMENT WIDENING, INTERSECTIONS, AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
- *CONTRACTOR SHALL MILL 1.5" BELOW EXISTING EDGE OF CONC. CURB & GUTTER.
- *IN AREAS WHERE ROADWAY IS PAVED TO THE FACE OF THE CURB, THE CONTRACTOR SHALL MILL AND RESURFACE ROADWAY TO MATCH EXSITING PAVEMENT.



TYPICAL SECTION NO. 2

USE WITH MAPS 2-4, 6 & 8

04-AUG-2017 14:25
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 jboconnor 01 11/15/18

NTS

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIAL TRANSFER VEHICLE REQUIRED	LENGTH MI	WIDTH FT	MOBILIZATION LS	1½" MILLING SY	SURFACE COURSE, S9.5B TONS	ASPHALT BINDER FOR PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	CONCRETE CURB RAMPS EA	ADJ. OF MANHOLES EA	ADJ. OF METER OR VALVE BOX EA	INDUCTIVE LOOP LF	LEAD-IN CABLE LF	
2018CPT.01.03.10081.1	Bertie	1	NC 308	FROM WCL LEWISTON TO BEGIN CURB		2	2WU	NO	NO	NO	0.65	24	1	10,800	1,000	60							
2018CPT.01.03.10081.1	Bertie	2	NC 308	FROM BEGIN CURB TO NC 11		2	2WU	NO	NO	NO	0.33	28	*	8,125	750	45	50		3	3	250	50	
2018CPT.01.03.10081.1	Bertie	3	US 13 BUS	FROM NC 308 TO VILLAGE AVE		2	2WU	NO	NO	NO	0.68	27	*	13,550	1,250	75	50	12	10	20	880	150	
2018CPT.01.03.10081.1	Bertie	4	NC 308	FROM US 13 BUS TO US 17		2	2WU	NO	NO	NO	0.46	48.5	*	14,000	1,400	84	50	6	10	10			
2018CPT.01.03.10081.1	Bertie	5	NC 305	FROM NC 11 TO BEGIN CURB & GUTTER		2	2WU	NO	NO	NO	0.27	28	*	4,800	450	27	50						
2018CPT.01.03.10081.1	Bertie	6	NC 305	FROM BEGIN CURB TO END CURB		2	2WU	NO	NO	NO	0.66	32	*	16,000	1,500	90	200	6	10	10	500	150	
2018CPT.01.03.10081.1	Bertie	7	NC 305	FROM END CURB TO NCL AULANDER		2	2WU	NO	NO	NO	0.42	26	*	6,500	600	36	25		2	2			
2018CPT.01.03.10661.1	Northampton	8	US 258	FROM SCL RICH SQUARE TO NC 305		2	2WU	NO	NO	NO	0.97	37	*	25,900	2,425	146	100	5	17	8	250	100	
GRAND TOTAL											4.44		1	99,675	9,375	563	525	29	52	53	1,880	450	

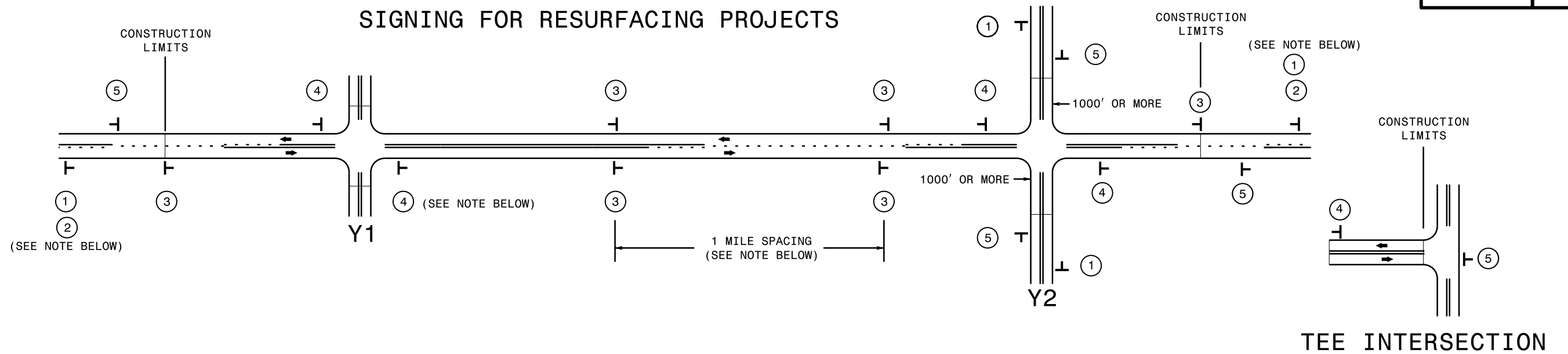
THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIAL TRANSFER VEHICLE REQUIRED	LENGTH MI	WIDTH FT	WORK ZONE ADVANCED/GENERAL WARNING SIGNING SF	TEMPORARY TRAFFIC CONTROL LS	4" X 90 M WHITE THERMO LF	4" X 120 M YELLOW THERMO LF	4" X 120 M WHITE THERMO LF	16" X 120 M WHITE THERMO LF	24" X 120 M WHITE THERMO LF	THERMO CHARACTERS (RR) EA	THERMO RT ARROW 90 M EA	THERMO LT ARROW 90 M EA	THERMO STR & RT ARROW 90 M EA	
2018CPT.01.03.10081.1	Bertie	1	NC 308	FROM WCL LEWISTON TO BEGIN CURB		2	2WU	NO	NO	NO	0.65	24	150	1	7,026	6,896								
2018CPT.01.03.10081.1	Bertie	2	NC 308	FROM BEGIN CURB TO NC 11		2	2WU	NO	NO	NO	0.33	28	150	*		3,464	150		200		1			
2018CPT.01.03.10081.1	Bertie	3	US 13 BUS	FROM NC 308 TO VILLAGE AVE		2	2WU	NO	NO	NO	0.68	27	250	*		7,202	250		350			6	4	
2018CPT.01.03.10081.1	Bertie	4	NC 308	FROM US 13 BUS TO US 17		2	2WU	NO	NO	NO	0.46	48.5	250	*		4,800			350		1			
2018CPT.01.03.10081.1	Bertie	5	NC 305	FROM NC 11 TO BEGIN CURB & GUTTER		2	2WU	NO	NO	NO	0.27	28	250	*	2905	2,851								
2018CPT.01.03.10081.1	Bertie	6	NC 305	FROM BEGIN CURB TO END CURB		2	2WU	NO	NO	NO	0.66	32	250	*		7,001		100	50	4				
2018CPT.01.03.10081.1	Bertie	7	NC 305	FROM END CURB TO NCL AULANDER		2	2WU	NO	NO	NO	0.42	26	250	*	4404	4,404								
2018CPT.01.03.10661.1	Northampton	5	US 258	FROM SCL RICH SQUARE TO NC 305		2	2WU	NO	NO	NO	0.97	37	250	*		12,000			100			20		
GRAND TOTAL											4.44		1,800	1	14,335	48,618	400	100	1,050	4	2	26	4	
																49,018						32		

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	MATERIAL TRANSFER VEHICLE REQUIRED	LENGTH MI	WIDTH FT	4" WHITE PAINT LF	4" YELLOW PAINT LF	16" WHITE PAINT LF	24" WHITE PAINT LF	PAINT CHARACTERS (RR) EA	PAINT RT ARROW EA	PAINT LT ARROW EA	PAINT STR & RT ARROW EA	SNOW PLOWABLE MARKERS EA
2018CPT.01.03.10081.1	Bertie	1	NC 308	FROM WCL LEWISTON TO BEGIN CURB		2	2WU	NO	NO	NO	0.65	24	7,026	6,896							44
2018CPT.01.03.10081.1	Bertie	2	NC 308	FROM BEGIN CURB TO NC 11		2	2WU	NO	NO	NO	0.33	28	150	3,464		200		1			25
2018CPT.01.03.10081.1	Bertie	3	US 13 BUS	FROM NC 308 TO VILLAGE AVE		2	2WU	NO	NO	NO	0.68	27	200	7,202		350			6	4	45
2018CPT.01.03.10081.1	Bertie	4	NC 308	FROM US 13 BUS TO US 17		2	2WU	NO	NO	NO	0.46	48.5		4,800		350		1			30
2018CPT.01.03.10081.1	Bertie	5	NC 305	FROM NC 11 TO BEGIN CURB & GUTTER		2	2WU	NO	NO	NO	0.27	28	2851	2,851							20
2018CPT.01.03.10081.1	Bertie	6	NC 305	FROM BEGIN CURB TO END CURB		2	2WU	NO	NO	NO	0.66	32		7,001	100	50	4				45
2018CPT.01.03.10081.1	Bertie	7	NC 305	FROM END CURB TO NCL AULANDER		2	2WU	NO	NO	NO	0.42	26	4404	4,404							30
2018CPT.01.03.10661.1	Northampton	5	US 258	FROM SCL RICH SQUARE TO NC 305		2	2WU	NO	NO	NO	0.97	37		12,000		100			20		65
GRAND TOTAL											4.44		14,631	48,618	100	1,050	4	2	26	4	304
													63,249				32				

SIGNING FOR RESURFACING PROJECTS



LEGEND	
	STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW

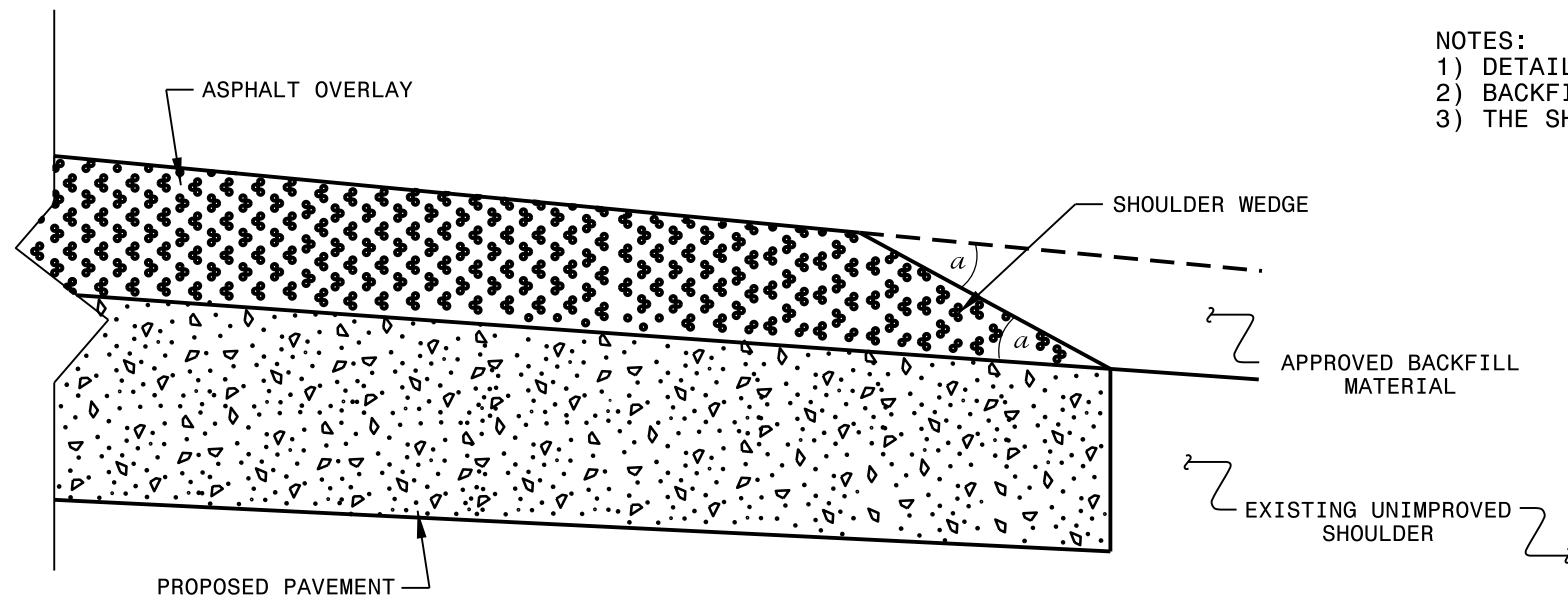
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

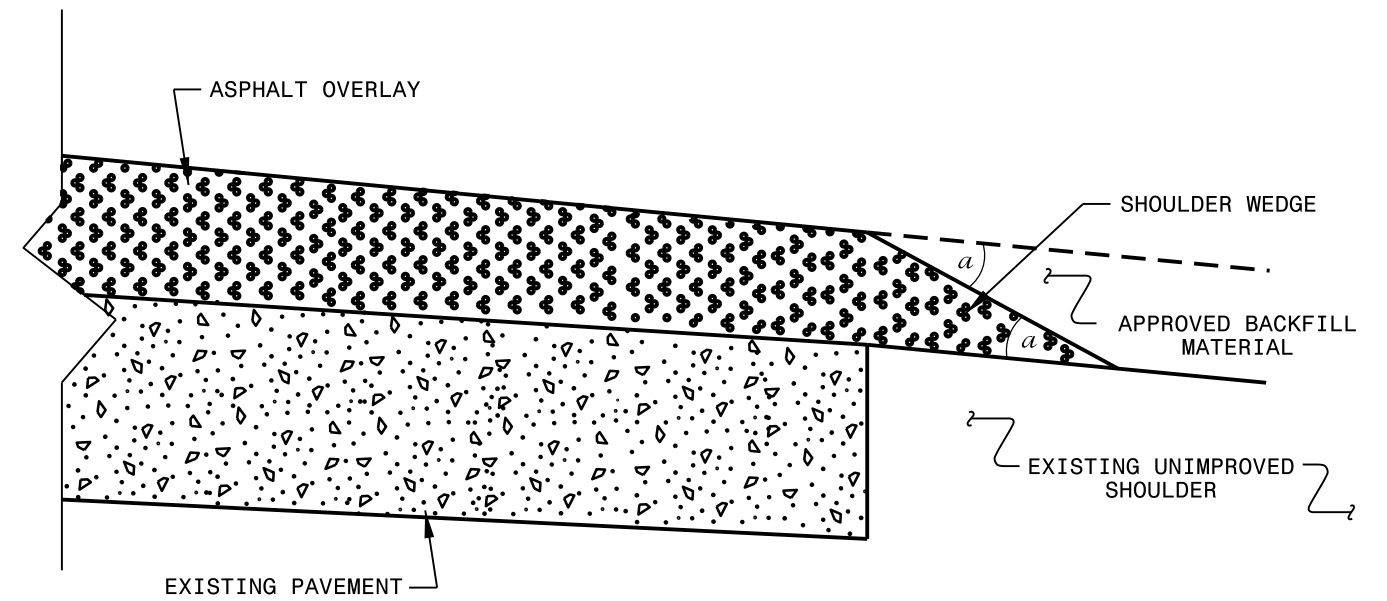
SIGNING NOTES AND PLACEMENT PER DIRECTION	MAINLINE (-L-) SIGNING		-Y- LINE SIGNING	
	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</p> <ol style="list-style-type: none"> 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE 2) SUBDIVISION ROADS 3) DEAD END ROADS <p>WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.</p> <div style="display: flex; justify-content: space-around;"> <div> W20-1 48" X 48" </div> <div> W20-7 A 48" X 48" </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p>
	2	 W7-3gP 24" X 18"	#2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)	
	3	 SP 13107 48" X 48"	<ul style="list-style-type: none"> - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER. 	
	4	 SP 13106 48" X 48"	<ul style="list-style-type: none"> - THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS. - DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS. - INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE. - FOR MULTIPLE -Y- LINES THAT ARE SEPARATED BY 0.25 MILES OR LESS, TREAT AS A SINGLE UNIT AND INSTALL WITHIN 500' OF EACH APPROACH. - A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE. 	
5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.		



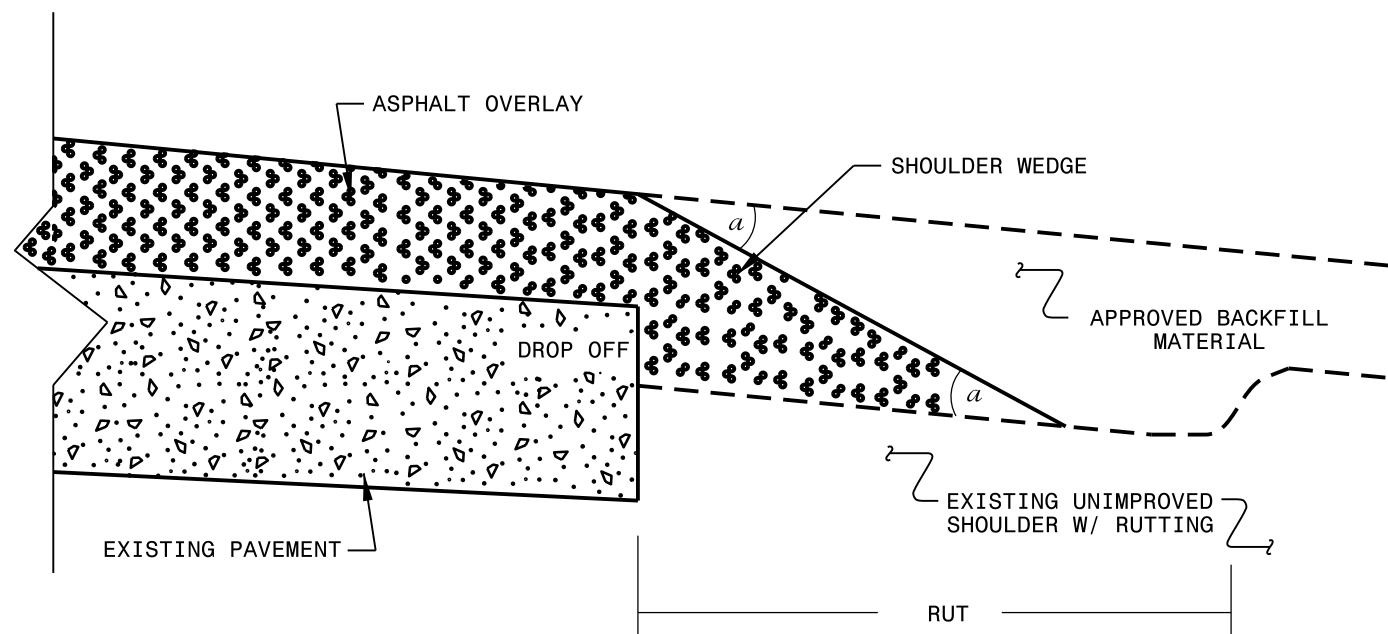
- NOTES:
 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ Widening or
 with Existing Paved Shoulder having no dropoffs)



SHOULDER WEDGE DETAIL
 (Resurfacing Projects w/ NO Widening)



SHOULDER WEDGE DETAIL
 (Resurfacing Adjacent to
 Rutted Shoulder)

- SHOULDER WEDGE ANGLE = 30°

**CONTRACT STANDARDS
 AND DEVELOPMENT UNIT**
 Office 919-707-6950 FAX 919-250-4119

**SHOULDER WEDGE
 DETAILS**

ORIGINAL BY: T.SPELL DATE: 7-19-11
 MODIFIED BY: DATE: 10/16/12
 CHECKED BY: DATE:
 FILE SPEC.: s:\usr\details\stand\shoulderwedgedetail.dgn