STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 6

PLANS

Letting Date: March 6, 2024

CONTRACT ID: DF00471

TIP NO.: -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2024CPT.06.16.10781.1 & 2024CPT.06.16.20781.1

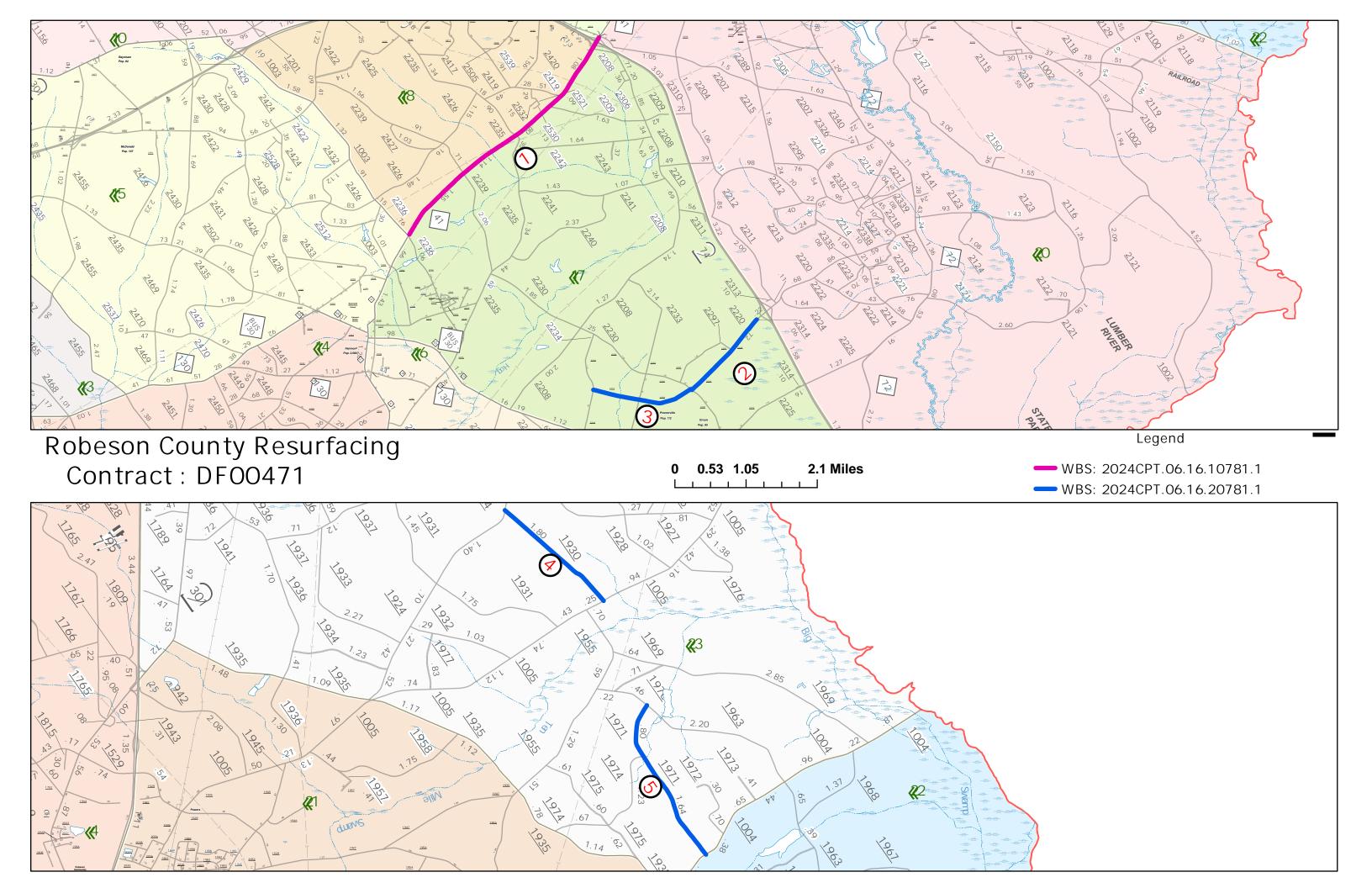
ROUTE NO.: VARIES

LOCATION: VARIES

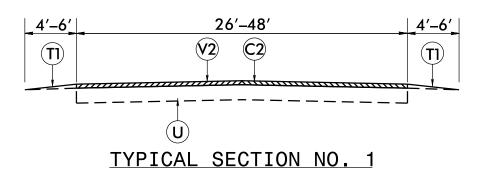
COUNTY: ROBESON

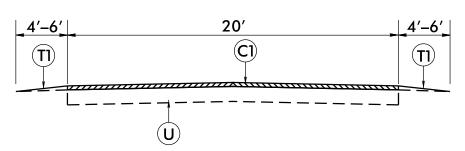
LENGTH OF PROJECT: 12.81 MILES

TYPE OF WORK: RESURFACING, MILLING & PAVEMENT MARKINGS



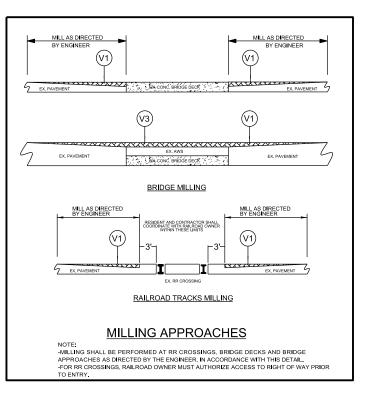
	PAVEMENT SCHEDULE
C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	5½" ASPHALT CONCRETE BASE COURSE, TYPE B25.OC, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
R1	EXISTING CURB AND GUTTER
T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING ASPHALT PAVEMENT
V1	0"-1½" MILLING
V2	34" MILLING
V3	1½" MILLING
V4	2½" MILLING





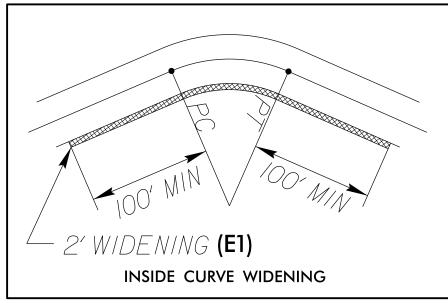
TYPICAL SECTION NO. 2

*PLUS 2' INSIDE CURVE WIDENING
ON MAP #4
(SEE DETAIL)



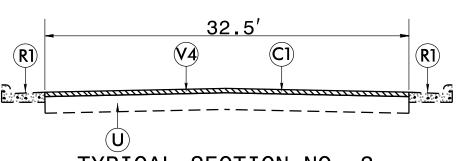
PROJECT REFERENCE NO.

DF 00471



MAP #4

22-FEB-2024 10:30 5:\DDC\DDC\DDC\W \$&&&!!GFRNAME\$\$\$



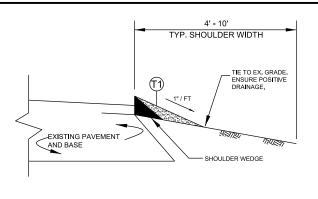
TYPICAL SECTION NO. 3

*EXISTING ASPHALT IS APPROXIMATELY
1 INCH ABOVE CURB EDGE

	PAVEMENT SCHEDULE
C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	$51\!\!\!/_2$ " ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
R1	EXISTING CURB AND GUTTER
T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING ASPHALT PAVEMENT
V1	0"-1½" MILLING
V2	34" MILLING
V3	1½" MILLING
V4	2½" MILLING

PROJECT REFERENCE NO. SHEET NO.

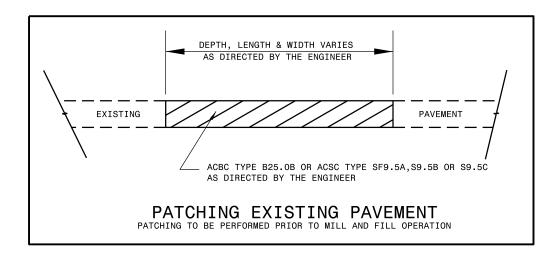
DF 00471

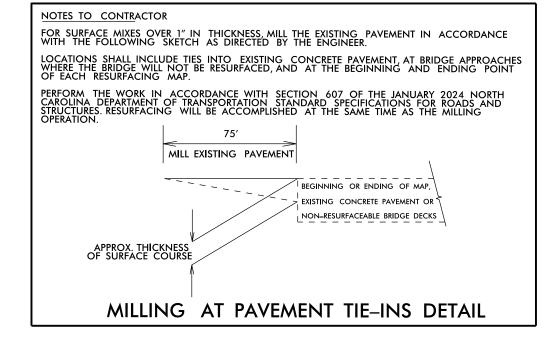


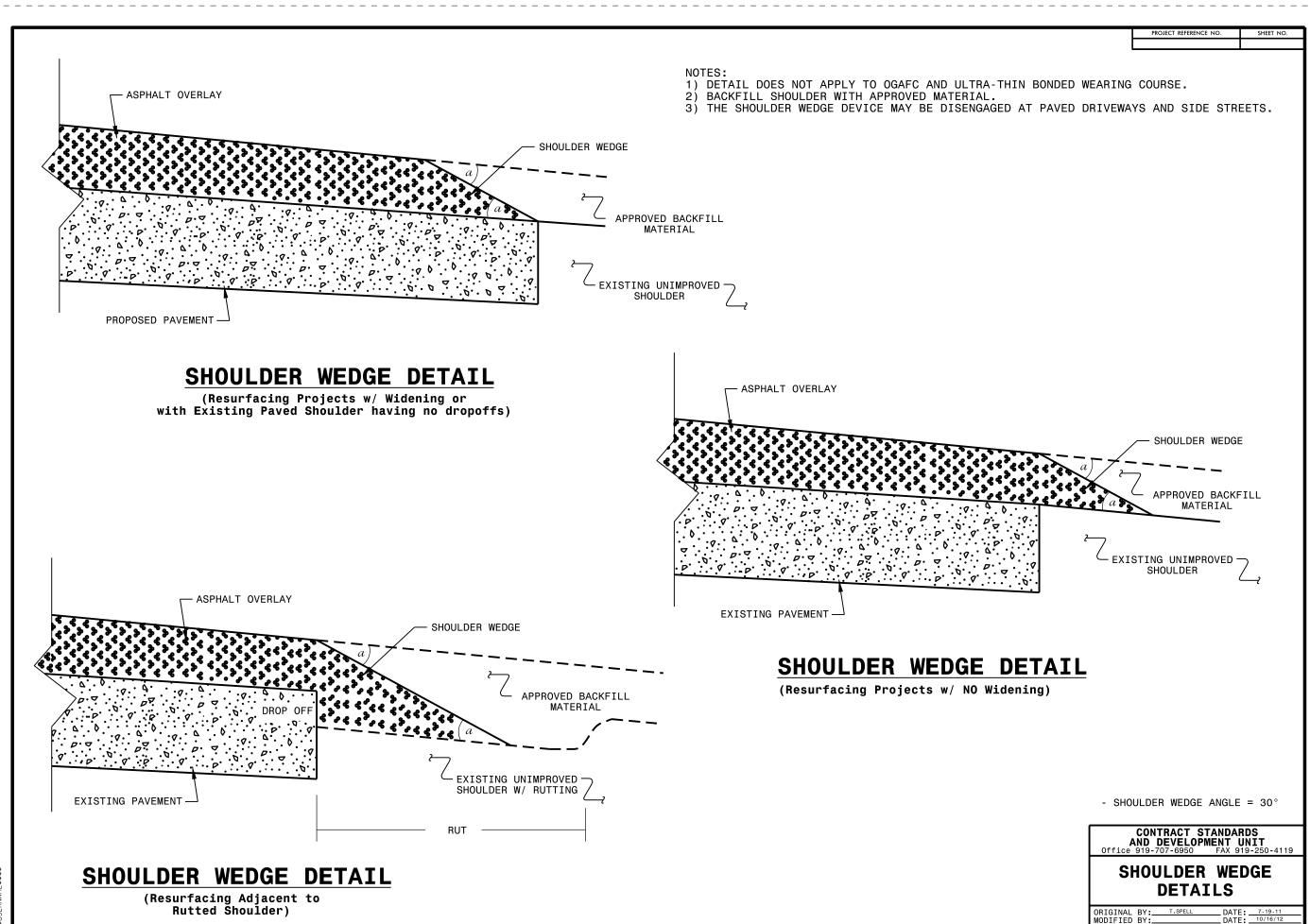
SHOULDER RECONSTRUCTION

NOTES:

- SHOULDER SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 &
 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY
 FROM ROADWAY
- 2. AGGREGATE SHOULDER BORROW (ASB) MATERIAL SHALL BE PLACED USING A WIDENING MACHINE OR SIMILAR DEVICE AND COMPACTED USING A ROLLER ASB SHALL TIE FLUSH TO PAVEMENT AND EXISTING SHOULDER.





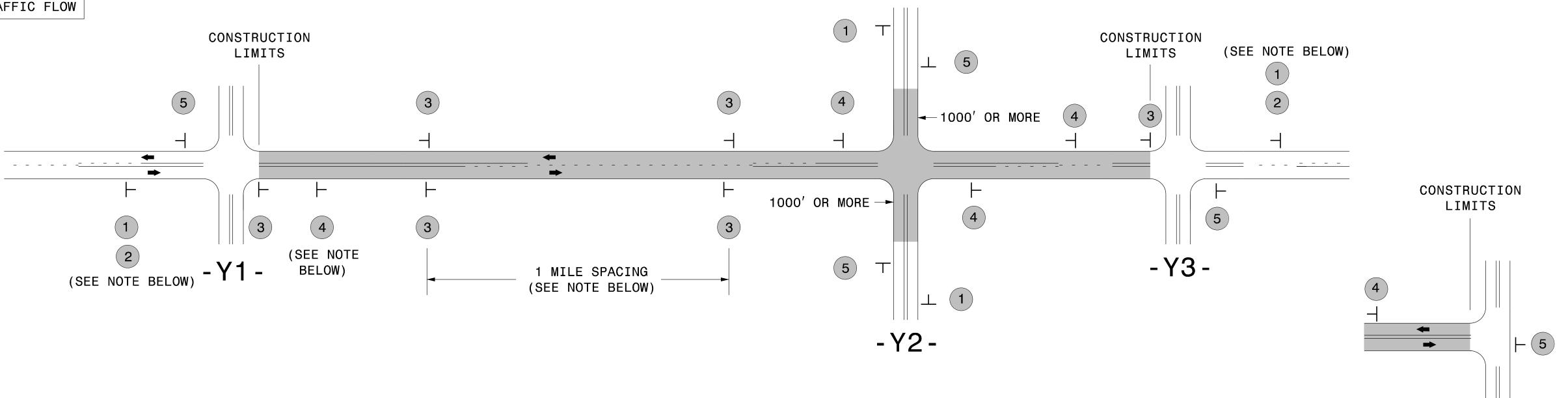


PROJ. REFERENCE NO. SHEET NO.

SIGNING FOR RESURFACING PROJECTS



← DIRECTION OF TRAFFIC FLOW

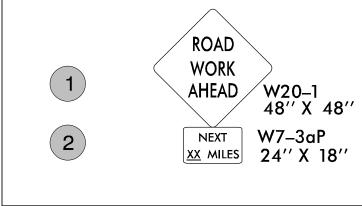


MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

IGNING NOTES AND EMENT PER DIRECTION

SO



PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

#2 SIGN ONLY USED WHEN CONSTRUCTION LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER.(NO FRACTIONAL OR DECIMAL NUMBERS)



- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY ½ MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
- ROAD UNDER CONST SP 13106 48" X 48"
- 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
- END ROAD WORK 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.

THE ABOVE SIGNS ARE ALL THAT ARE REQUIRED FOR A CONTRACTOR TO BEGIN A RESURFACING CONTRACT. ANY ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE START OF CONTRACT WORK.

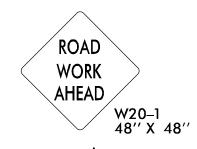
ALONG -L- LINE.

MAPS LESS THAN 2 MILES FOR RESURFACING MAPS WITH CONSTRUCTION LIMITS LESS THAN 2 MILES IN LENGTH, NO STATIONARY SIGNS ARE REQUIRED. USE PORTABLE "ROAD UNDER CONSTRUCTION" OR "ROAD WORK AHEAD" SIGNS IN LIEU OF STATIONARY ADVANCE WARNINGS SIGNS.

NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:

- 1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE
- 2) SUBDIVISION ROADS
- 3) DEAD END ROADS

WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



PLACED 500' IN ADVANCE OF FLAGGER.



PLACED 250' IN ADVANCE
OF FLAGGER.



ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2-LANE ROADWAY
RESURFACING

TEE INTERSECTION

GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

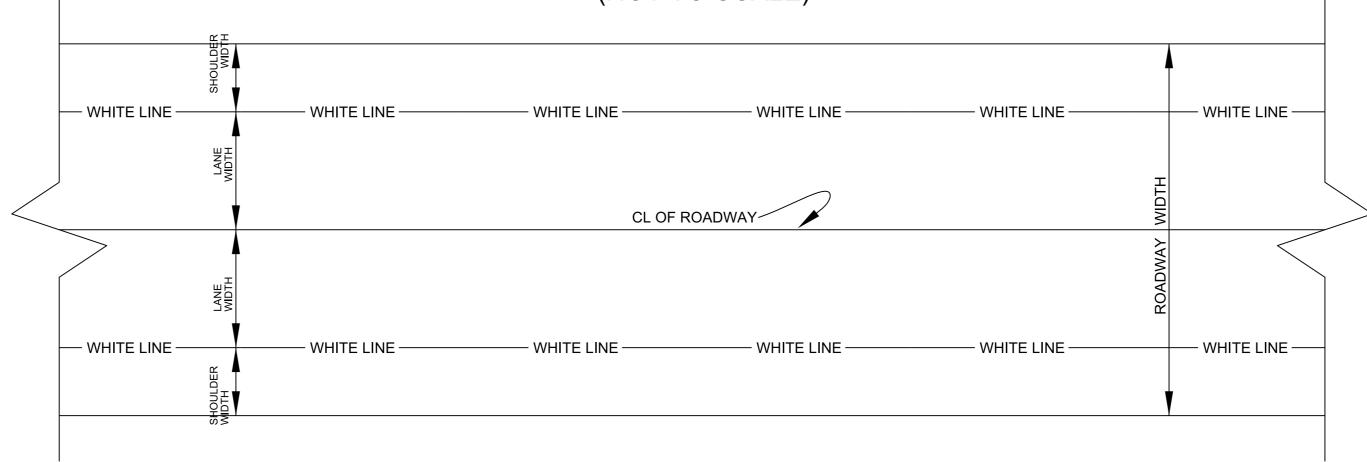
Contractor shall place the new pavement markings in accordance with this table and detail unless otherwise directed by the Engineer.

TWO LANE - TWO WAY ROADWAY - 55 MPH												
ROADWAY WIDTH	LANE WIDTH	SHOULDER WIDTH										
18'	9' *	0'										
20'	10' *	0'										
22'	10'	1'										
24'	10'	2'										
26'	11'	2'										
28'	12'	2'										
32'	12'	4'										

TWO LANE - TWO WAY ROADWAY MPH OR LESS												
ROADWAY WIDTH	SHOULDER WIDTH											
18'	9' *	0'										
20'	10' *	0'										
22'	10'	1'										
24'	10'	2'										
26'	11'	2'										
28'	11'	3'										
32'	11'	5'										
* May vary due to pavemer	nt width											

SCHEMATIC OF ROADWAY

(NOT TO SCALE)



PROJECT NO.	SHEET NO.	TOTAL NO.
PT.06.16.10781.1, 2024CPT.06.16.2		

SUMMARY OF QUANTITIES

													1220000000-E	1245000000-E	1260000000-E	12970	00000-E	133000000-E	1491000000-E	1519000000-E	1520000000-E	1523000000-E	1575000000-E	1704000000-E	2830000000-N
PROJECT	NO	COUNTY	MAP NO ROUTE	DESCRIPTION	TYP NO LAN	ES LANE	FINAL	WARM MIX	LENGTH	WIDTH	BEGIN MP	END MP	INCIDENTAL	SHOULDER	AGGREGATE	0.75"	2 1/2"	INCIDENTAL	BASE COURSE,	SURFACE	LEVELING	SURFACE	ASPHALT	PATCHING	ADJ. OF
						TYPE	SURFACE	ASPHALT					STONE BASE	RECONSTRUCTI	SHOULDER	MILLING	MILLING	MILLING	B25.0C	COURSE, S9.5B	COURSE, S9.5B	COURSE, S9.5C	BINDER FOR	EXISTING	MANHOLES
							TESTING	REQUIRED						ON	BORROW								PLANT MIX	PAVEMENT	1 '
							REQUIRED		MI	FT			TONS	SMI	TON	SY	SY	SY	TONS	TONS	TONS	TONS	TONS	TONS	EA
				FROM PVMT JT 200' N OF SR 2236 TC																					1
2024CPT.06.1	6.10781.1	Robeson	1 NC-41	PVMT JT 170' S OF SR 2316	1 2	2WU	NO	NO	5.08	26	11.95	17.03	152	10.16	1,643	81,910		3,333				7,178	432	5	1
		TOTAL	FOR MAP NO. 1						5.08				152	10.16	1,643	81,910		3,333				7,178	432	5	1
	TOTAL EC	DE DECLIN	O. 2024CPT.06.16.10781.1						5.08				152	10.16	1,643	81,910		3,333				7,178	432	5	<u> </u>
	TOTALTO	on rinos in	0. 202401 1.00.10.10781.1													81,	,910								
															T		1			T					
				FROM SR 2230 TO PVMT JT 95' N OF																					1
2024CPT.06.1	6.20781.1		· · · · · · · · · · · · · · · · · · ·	SR 2314	2 2	2WU	NO	NO	1.77	20	0	1.77	43	3.54	572			1,111		1,812	10		123	1	
			FOR MAP NO. 2						1.77				43	3.54	572			1,111		1,812	10		123	1	
2024CPT.06.1	6.20781.1			FROM SR 2234 TO SR 2230	2 & 3 2	2WU	NO	NO	1.72	26.75	0	1.72	52	3.00	485		4,195	1,111		1,970	10		134	5	1
			FOR MAP NO. 3						1.72				52	3.00	485		4,195	1,111		1,970	10		134	5	1
2024CPT.06.1	6.20781.1			FROM SR 1005 TO SR 1924	2 2	2WU	NO	NO	1.8	20	0	1.8	13	3.60	582			556	40	1,803	10		130	118	
			FOR MAP NO. 4						1.8				13	3.60	582			556	40	1,803	10		130	118	
2024CPT.06.1	6.20781.1	Robeson	5 SR-1971 / DENMARK RD	FROM SR 1004 TO SR 1963	2 2	2WU	NO	NO	2.44	19	0	2.44	53	4.88	789			833		2,318	10		157	1	
		TOTAL	FOR MAP NO. 5						2.44				53	4.88	789			833		2,318	10		157	1	
	TOTAL FO	OR PROLN	O. 2024CPT.06.16.20781.1						7.73				161	15.02	2,428		4,195	3,611	40	7,903	40		544	125	1
	. C.ALIC															4,:	195								<u> </u>
															1		1	1		1	1	, ,			
		GR	AND TOTAL						12.81				313	25.18	4,071	81,910		6,944	40	7,903	40	7,178	976	130	1
																86,	,105	l			l				<u> </u>

PROJECT NO.	SHEET NO.	TOTAL NO.
06.16.10781.1, 2024CPT.06.16		

THERMOPLASTIC AND PAINT QUANTITIES

														- /			•							1					
													4457000000-N	468500			4709000000-E		4725000000-			00000-E	4825000000-E		4845000000-N		4891000000-E		00000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	S LANE TYPE	LENGTH	WIDTH	BEGIN MP		ORK ZONE	TEMPORARY TRAFFIC	4" X 90 M WHITE	4" X 90 M YELLOW	12" X 90 M YELLOW	24" X 90 M WHITE	_		THERMO STR	4" WHITE PAINT	4" YELLOW PAINT	12" YELLOW PAINT	PAINT LT ARROW	PAINT RT ARROW	PAINT STR & RT ARROW	GENERIC MARKING. 4"		CRYSTAL & RED MARKERS
											v	NERAL WARNING SIGNING	CONTROL	THERMO	THERMO	THERMO	THERMO	M	M	90 M				, .	7	,	X 90 M WHITE THERMO (SKIP & MINI SKIP)	MARKERS	
								MI	FT			SF	LS	LF	LF	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	EA	LF	EA	EA
2024CPT.06.16.10781.1	Robeson	1	NC-41	FROM PVMT JT 200' N OF SR 2236 TO PVMT JT 170' S OF SR 2316	1	2	2WU	5.08	26	11.95	17.03	569	1.00	45,646	43,599	1,021	142	14	3	1	46,412	43,599	1,021	12	1	1	766	307	40
	TOTAL F	OR MAP N	0.1					5.08				569	1.000	45,646	43,599	1,021	142	14	3	1	46,412	43,599	1,021	12	1	1	766	307	40
TOTAL FOR PROJ NO. 2024CPT.06.16.10781.1					5.08				569	1.000	45,646	43,599	1,021	142	14	3	1	46,412	43,599	1,021	12	1	1	766	307	40			
TOTALF	OK PROJ N	IO. 2024CP1	.06.16.10781.1											89,245				18		90,011			14			3	347		
2024CPT.06.16.20781.1	Robeson	2	SR-2220 / S BROADRIDGE RD	FROM SR 2230 TO PVMT JT 95' N OF SR 2314	2	2	2WU	1.77	20	0	1.77	198		18.692	15,889													120	
		OR MAP N	· · · · · · · · · · · · · · · · · · ·		<u> </u>	1 -		1.77				198		18.692	15,889											İ	1	120	
2024CPT.06.16.20781.1	Robeson	3	SR-2232 / E MAIN ST	FROM SR 2234 TO SR 2230	2 & 3	2	2WU	1.72	26.75	0	1.72	218		18.164	15,440													120	
		OR MAP N	0.3					1.72				218		18,164	15,440													120	1
2024CPT.06.16.20781.1	Robeson	4	SR-1930 / BUTLER FARMS RD	FROM SR 1005 TO SR 1924	2	2	2WU	1.8	20	0	1.8	202		19,008	16,157													120	
	TOTAL F	OR MAP N	0. 4					1.8				202		19,008	16,157													120	
2024CPT.06.16.20781.1	Robeson	5	SR-1971 / DENMARK RD	FROM SR 1004 TO SR 1963	2	2	2WU	2.44	19	0	2.44	273		25,767	21,903													162	
	TOTAL F	FOR MAP N	0. 5					2.44				273		25,767	21,903													162	
TOTAL F	OR PROLN	O 2024CPT	.06.16.20781.1					7.73				891		81,631	69,389													522	<u> </u>
IJIALI	J 1 1107 14				<u> </u>									151	,020													5	522
																1				1		1		T -	1				
	GR/	AND TOTAL			 	1		12.81			1	1,460	1.000	127,277	112,988	1,021	142	14	3	1	46,412	43,599	1,021	12	1 1	1	766	829	40
														240	,265				18		90,	011			14			8	369