# STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 6

## **PLANS**

Letting Date: October 16, 2024

**CONTRACT ID: DF00499** 

**TIP NO.:** -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2025CPT.06.09.20431.1

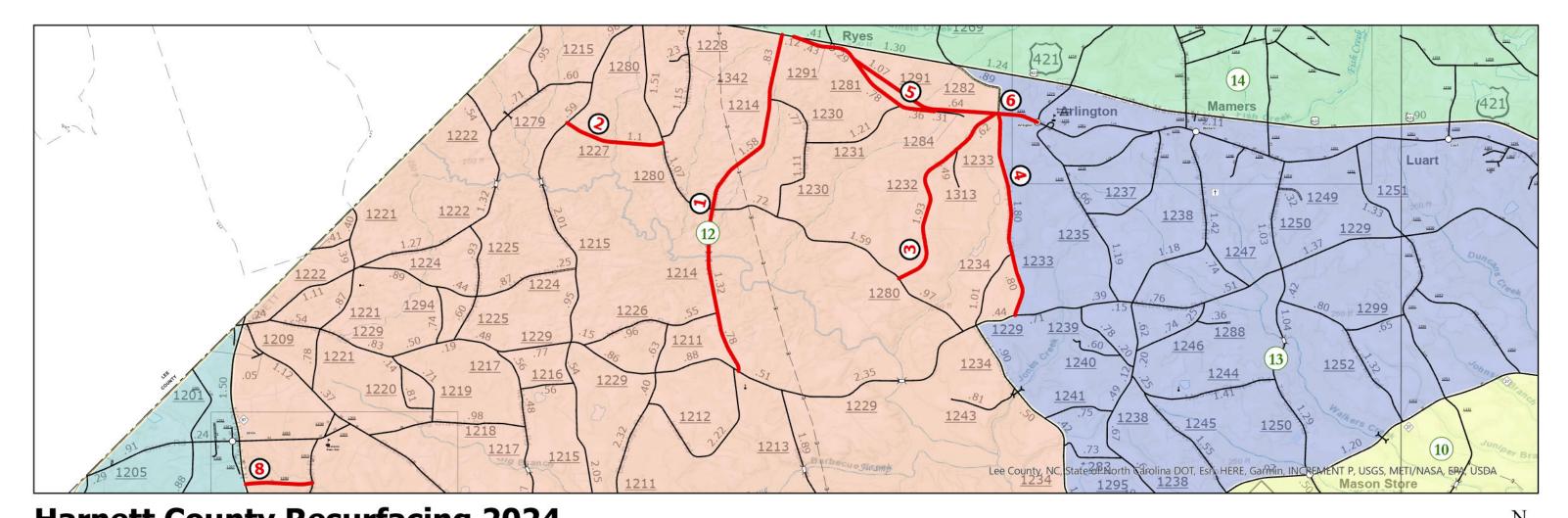
**ROUTE NO.: VARIES** 

**LOCATION: VARIES** 

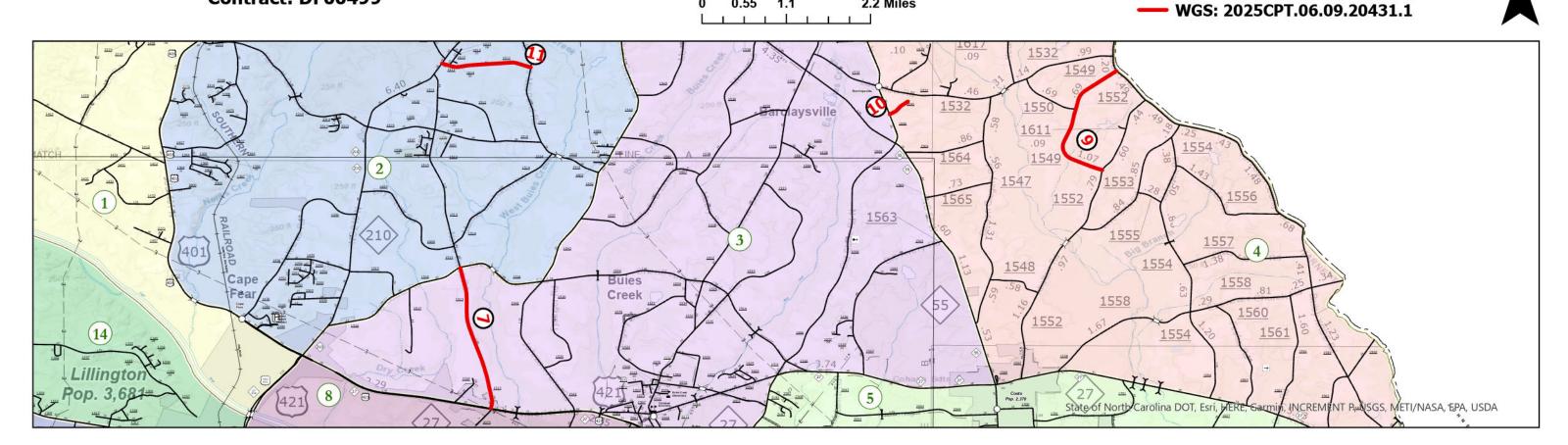
**COUNTY: HARNETT** 

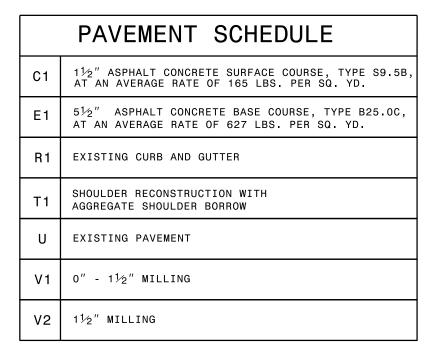
LENGTH OF PROJECT: 22.91 MILES

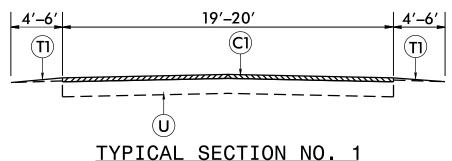
TYPE OF WORK: WIDENING, RESURFACING & PAVEMENT MARKINGS



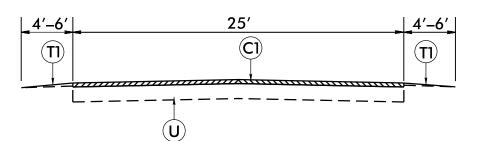




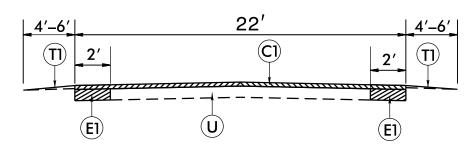




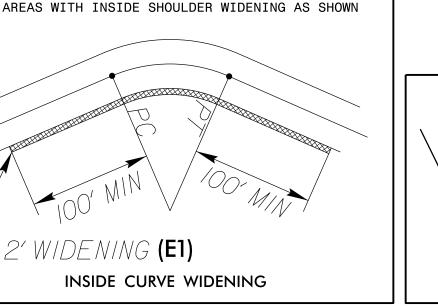
-PLUS 2' INSIDE CURVE WIDENING ON MAPS 1, 3 & 9 (SEE DETAIL)



TYPICAL SECTION NO. 2







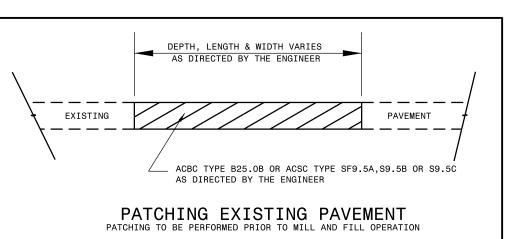
2'-6'

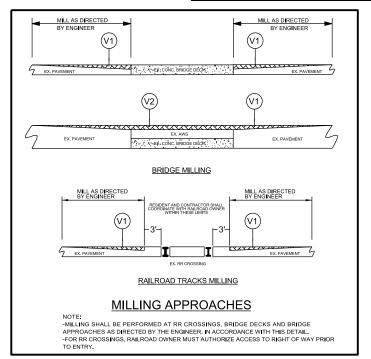
(T1)

SHOULDER RECONSTRUCTION WITH ASB AT ALL

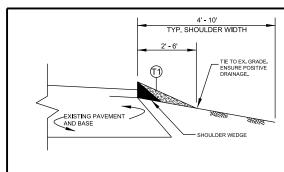
INSIDE CURVE WIDENING

2' WIDENING (E1)





PROJECT REFERENCE NO.



#### SHOULDER RECONSTRUCTION

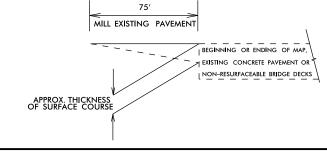
- 1. SHOULDER SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & FROM ROADWAY.
- WIDENING MACHINE OR SIMILAR DEVICE.
- A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION. PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW MATERIAL WILL NOT BE ALLOWED.
- 4. REQUIRED BORROW MATERIAL MAY BE OBTAINED BY THE CONTRACTOR FROM WIDENING OPERATIONS WITHIN THE PROJECT LIMITS, FROM NCDOT APPROVED BORROW PITS OR FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

#### NOTES TO CONTRACTOR

FOR SURFACE MIXES OVER 1" IN THICKNESS, MILL THE EXISTING PAVEMENT IN ACCORDANCE WITH THE FOLLOWING SKETCH AS DIRECTED BY THE ENGINEER.

LOCATIONS SHALL INCLUDE TIES INTO EXISTING CONCRETE PAYEMENT, AT BRIDGE APPROACHES WHERE THE BRIDGE WILL NOT BE RESURFACED, AND AT THE BEGINNING AND ENDING POINT OF EACH RESURFACING MAP.

PERFORM THE WORK IN ACCORDANCE WITH SECTION 607 OF THE JANUARY 2024 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. RESURFACING WILL BE ACCOMPLISHED AT THE SAME TIME AS THE MILLING OPERATION.



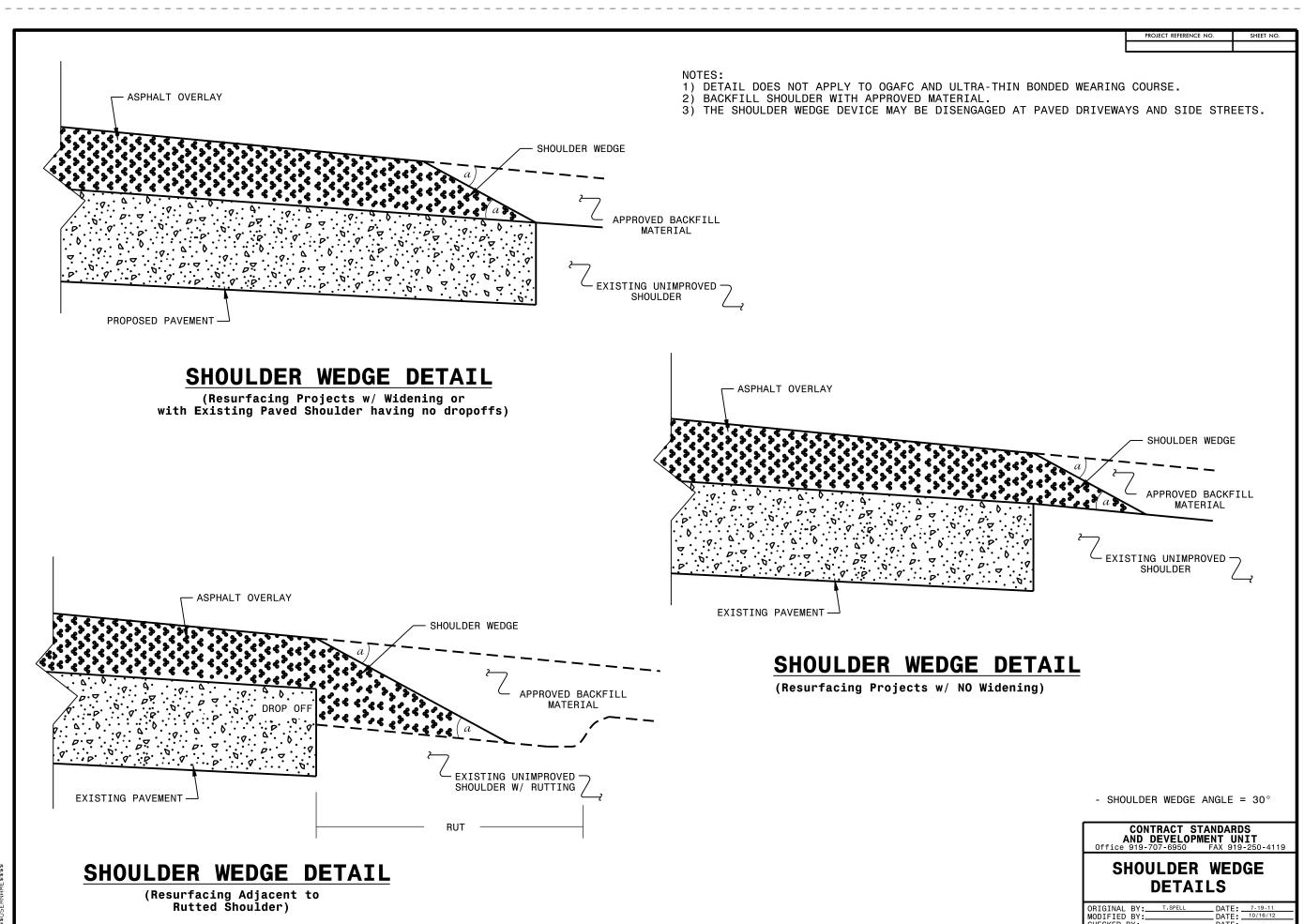
MILLING AT PAVEMENT TIE-INS DETAIL

			PROJECT REFERENCE NO.	SHEET NO.
MINIMUM TIE IN ON CITY STREETS AND COMMERCIAL DRIVES  — — — — — —	EXTEND LIMITS TO BACK OF SIGNAL LOOPS ON STATE MAINTAINED ROADS AS DIRECTED BY THE ENGINEER	MINIMUM TIE IN ON CITY STREETS AND COMMERCIAL DRIVES	EXTEND LIMITS TO BACK OF RADIUS ON STATE MAINTAINED ROADS AS DIRECTED BY THE ENGINEER	

TYPICAL	DETAIL	OF	PROJECT	LIMITS	ΑT
	SIGNAL	I7F	D Y LINES	<u> </u>	

TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

ADDITIONAL INTERSECTIONS (NON-TYPICAL)											
Extend paving limits to back of radius or loop on the following intersections:											
MAP#	MAP# STREET NAME COMMENTS										
1	SR 1281 RT Blanch Johnson Rd	70 FT from EP of L-Line = 871.11 SY									



PROJ. REFERENCE NO. SHEET NO.

# SIGNING FOR RESURFACING PROJECTS



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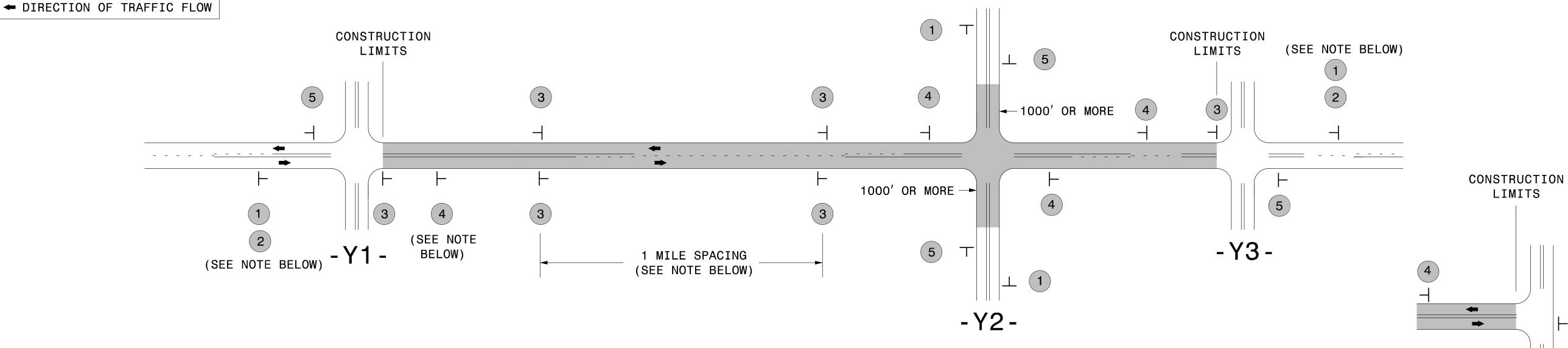
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# -Y- LINE SIGNING

# MAINLINE (-L-) SIGNING

# PLACE 1000' PRIOR TO BEGINNING OF ONLY USED ON -Y- LINES IF RESURFATIVE W7-3aP W7-3aP W7-3aP W7-3aP W7-3aP W7-3aP W7-3aP W7-3aP POUND UP TO NEXT WHOLE NUMBER (NO

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

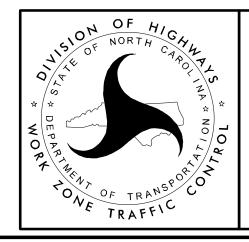
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



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

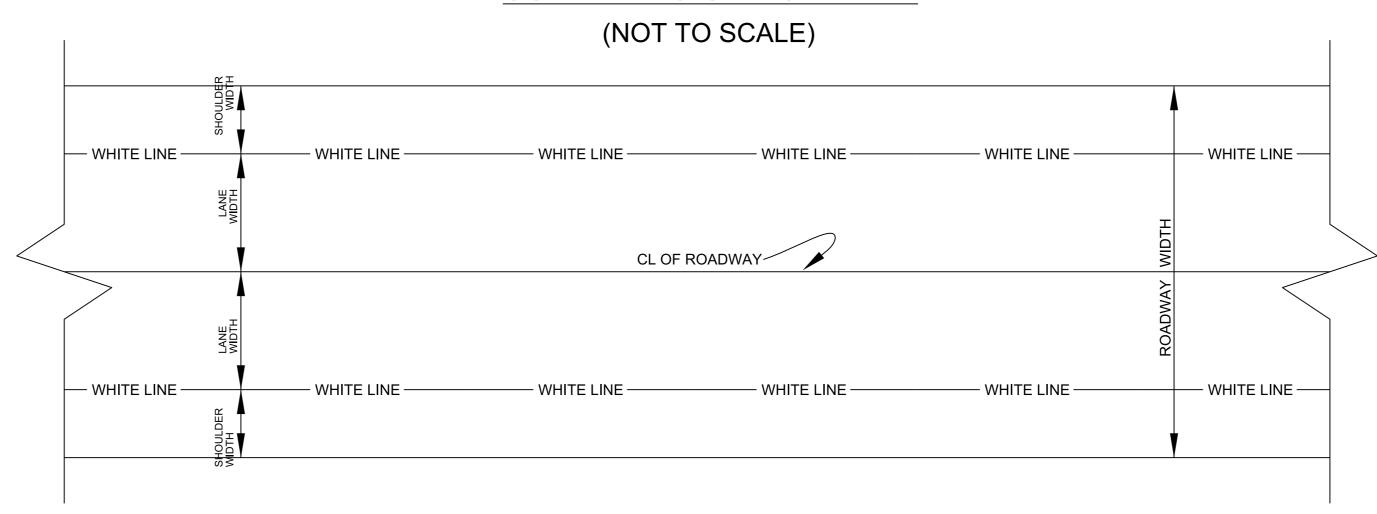
## GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

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  50												
ROADWAY WIDTH	SHOULDER WIDTH											
18'	9' *	0'										
20'	10' *	0'										
22'	10'	1'										
24'	10'	2'										
26'	11'	2'										
28'	11'	3'										
32'	5'											
* May vary due to pavement width												

# SCHEMATIC OF ROADWAY



PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.06.09.20431.1		

### SUMMARY OF QUANTITIES

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PROJECTNO	COUNTY	MADNO	DOUTE	DECORIDEION	TVD NO	LANGO	LANE	LENGTH	WIDTH	DEO	LEND	1220000000-E	1245000000-E	1260000000-E	133000000-E	1491000000-E	1519000000-E	1575000000-E	1704000000-E
PROJECT NO	COUNTY	MAPNO	ROUTE	DESCRIPTION	IYPNO	LANES		LENGIH	WIDIH			INCIDENTAL	SHOULDER	AGGREGATE	INCIDENTAL	BASE COURSE,	SURFACE	ASPHALT	PATCHING
							TYPE			N MI	P MP	STONE BASE	RECONSTRUCTI	SHOULDER	MILLING	B25.0C	COURSE, S9.5B	BINDER FOR	EXISTING
												=====	ON	BORROW	21/	=====	=====	PLANT MIX	PAVEMENT
								MI	FT			TONS	SMI	TON	SY	TONS	TONS	TONS	TONS
2025CPT.06.09.20431.1			SR-1214 / MT PISGAH CHURCH RD	FROM SR 1229 TO US 421	1	2	2WU	4.52	19	0	4.52	58	9.04	1,461		72	4,223	283	8
		L FOR MAP						4.52				58	9.04	1,461		72	4,223	283	8
2025CPT.06.09.20431.1	Harnett		SR-1227 / MCLEOD RD	FROM SR 1215 TO SR1215	1	2	2WU	1.07	20	0	1.07	35	2.14	346			1,036	70	7
		L FOR MAP						1.07				35	2.14	346			1,036	70	7
2025CPT.06.09.20431.1	Harnett	3	SR-1232 / CAMERON RD	FROM SR 1280 TO SR 1291	1	2	2WU	2.55	20	0	2.55	67	5.10	825	278	307	2,574	168	6
	TOTA	L FOR MAP	NO.3					2.55				67	5.10	825	278	307	2,574	168	6
2025CPT.06.09.20431.1	Harnett	4	SR-1233 / LLOYD STEWART RD	FROM SR1291 TO SR 1229	1	2	2WU	2.6	20	0	2.6	83	5.20	841	278		2,542	170	
	TOTA	L FOR MAP	PNO. 4					2.6				83	5.20	841	278		2,542	170	1
2025CPT.06.09.20431.1	Harnett	5	SR-1281 / THOMAS FARM RD	FROM SR 1291 TO SR 1291	1, 2	2	2WU	1.17	20	0	1.17	47	2.34	378	556		1,189	79	1
	TOTA	L FOR MAP	PNO. 5					1.17				47	2.34	378	556		1,189	79	
2025CPT.06.09.20431.1	Harnett	6	SR-1291 OI / OLD US 421	FROM US421 TO SR 1274	2	2	2WU	2.87	25	0	2.87	50	5.70	928	1,667		3,621	243	
	TOTA	L FOR MAP	PNO. 6					2.87				50	5.70	928	1,667		3,621	243	
2025CPT.06.09.20431.1	Harnett	7	SR-1513 / NEILLS CREEK RD	FROM SR1516 TO US 421	3	2	2WU	4.45	18	0	4.45	42	3.80	614		1,398	2,023	199	
	TOTA	L FOR MAP	NO. 7					4.45				42	3.80	614		1,398	2,023	199	
2025CPT.06.09.20431.1	Harnett	8	SR-1290 / GRAHAM RD	FROM SR 1203 TO NC87	1	2		0.7	20	0	0.7	37	1.40	226			678	46	1
	TOTA	L FOR MAP	NO. 8					0.7				37	1.40	226			678	46	1
2025CPT.06.09.20431.1	Harnett	9	SR-1549 / DENNING RD	FROM SR 1552 TO SR 1552	1	2	2WU	1.75	20	0	1.75	58	3.50	566	556	110	1,773	117	
	TOTA	L FOR MAP	NO. 9					1.75				58	3.50	566	556	110	1,773	117	
2025CPT.06.09.20431.1	Harnett	10	SR-1641 / WYNNRIDGE DR	FROM SR 1006 TO END OF SEAM	1	2	2WU	0.26	20	0	0.26	17	0.50	84			252	17	
TOTAL FOR MAP NO. 10								0.26				17	0.50	84			252	17	
2025CPT.06.09.20431.1			SR-1511 / NATHAN MATTHEWS RD	FROM NC 210 TO SR 1510	1	2	2WU	0.97	20	0	0.97	20	1.94	314			939	63	
	TOTAL FOR MAP NO. 11							0.97				20	1.94	314			939	63	
TOTAL FOR PROJ NO. 2025CPT.06.09.20431.1						22.91				514	40.66	6.583	3,335	1.887	20,850	1.455	22		
1011121		1											13.33	-,	2,222	_,		_,	
	G	RAND TOT	AL					22.91				514	40.66	6,583	3,335	1,887	20,850	1,455	22
					!	ļ				<del></del>		<b>V</b> 2.	10.00	0,000	3,555	2,007	20,000	2, 100	

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.06.09.20431.1		

## THERMOPLASTIC AND PAINT QUANTITIES

												4413000000-F	4457000000-N	468500	0000-E	4900000000-N
PROJECT NO (	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	IANE	LENGTH	WIDTH	BEGIN MP	FND MP		TEMPORARY	4" X 90 M	4" X 90 M	YELLOW &
				<b>2233</b> 11311			TYPE					ADVANCE/GE	TRAFFIC	WHITE	YELLOW	YELLOW
												NERAL	CONTROL	THERMO	THERMO	MARKERS
												WARNING				
												SIGNING				
								MI	FT			SF	LS	LF	LF	EA
2025CPT.06.09.20431.1	Harnett	1	SR-1214 / MT PISGAH CHURCH RD	FROM SR 1229 TO US 421	1	2	2WU	4.52	19	0	4.52	506	1.00	47,710	35,782	297
	TOTAL	FOR MAI	P NO. 1					4.52				506	1	47,710	35,782	297
2025CPT.06.09.20431.1	Harnett	2	SR-1227 / MCLEOD RD	FROM SR 1215 TO SR1215	1	2	2WU	1.07	20	0	1.07	120		11,299	4,660	70
	TOTAL	FOR MAI	P NO. 2					1.07				120		11,299	4,660	70
2025CPT.06.09.20431.1	Harnett	3	SR-1232 / CAMERON RD	FROM SR 1280 TO SR 1291	1	2	2WU	2.55	20	0	2.55	286		68,585	51,439	165
	TOTAL	FOR MAI	P NO. 3					2.55				286		68,585	51,439	165
2025CPT.06.09.20431.1	Harnett	4	SR-1233 / LLOYD STEWART RD	FROM SR1291 TO SR 1229	1	2	2WU	2.6	20	0	2.6	291		71,328	53,498	170
	TOTAL	FOR MAI	P NO. 4					2.6				291		71,328	53,498	170
2025CPT.06.09.20431.1	Harnett	5	SR-1281 / THOMAS FARM RD	FROM SR 1291 TO SR 1291	1, 2	2	2WU	1.17	20	0	1.17	131		14,648	10,881	70
	TOTAL	FOR MAI	P NO. 5					1.17				131		14,648	10,881	70
2025CPT.06.09.20431.1	Harnett	6	SR-1291 OI / OLD US 421	FROM US421 TO SR 1274	2	2	2WU	2.87	25	0	2.87	321		30,307	22,730	182
	TOTAL	FOR MAI	P NO. 6					2.87				321		30,307	22,730	182
2025CPT.06.09.20431.1	Harnett	7	SR-1513 / NEILLS CREEK RD	FROM SR1516 TO US 421	3	2	2WU	4.45	18	0	4.45	213		19,747	14,810	297
	TOTAL	FOR MAI	P NO. 7					4.45				213		19,747	14,810	297
2025CPT.06.09.20431.1	Harnett	8	SR-1290 / GRAHAM RD	FROM SR 1203 TO NC87	1	2		0.7	20	0	0.7	78		7,352	5,544	60
	TOTAL	FOR MAI	P NO. 8					0.7				78		7,352	5,544	60
2025CPT.06.09.20431.1	Harnett	9	SR-1549 / DENNING RD	FROM SR 1552 TO SR 1552	1	2	2WU	1.75	20	0	1.75	196		18,480	13,860	112
	TOTAL	. FOR MAI	P NO. 9					1.75				196		18,480	13,860	112
2025CPT.06.09.20431.1	Harnett	10	SR-1641 / WYNNRIDGE DR	FROM SR 1006 TO END OF SEAM	1	2	2WU	0.26	20	0	0.26	29				
	TOTAL	FOR MAP	NO. 10					0.26				29				
2025CPT.06.09.20431.1	Harnett	11	SR-1511 / NATHAN MATTHEWS RD	FROM NC 210 TO SR 1510	1	2	2WU	0.97	20	0	0.97	109		9,704	7,122	66
	TOTAL	FOR MAP	NO. 11					0.97				109		9,704	7,122	66
TOTAL FOR PROJ NO. 2025CPT.06.09.20431.1		CPT.06.09.20431.1					22.91				2,280	1.000	299,160	220,326	1,489	
101AL FOR FROJ NO. 2023CF1.00.09.20431.1			01 1.00.00.20401.1											519	,486	
								22.91				2,280	1.000	299,160	220,326	1,489
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