

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
HIGHWAY DIVISION 6

# PLANS

**Letting Date: October 16, 2024**

**REVISED 10-11-2024**

**CONTRACT ID: DF00499**

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

**FEDERAL AID NO.: STATE FUNDED**

**WBS ELEMENT NO.: 2025CPT.06.09.20431.1**

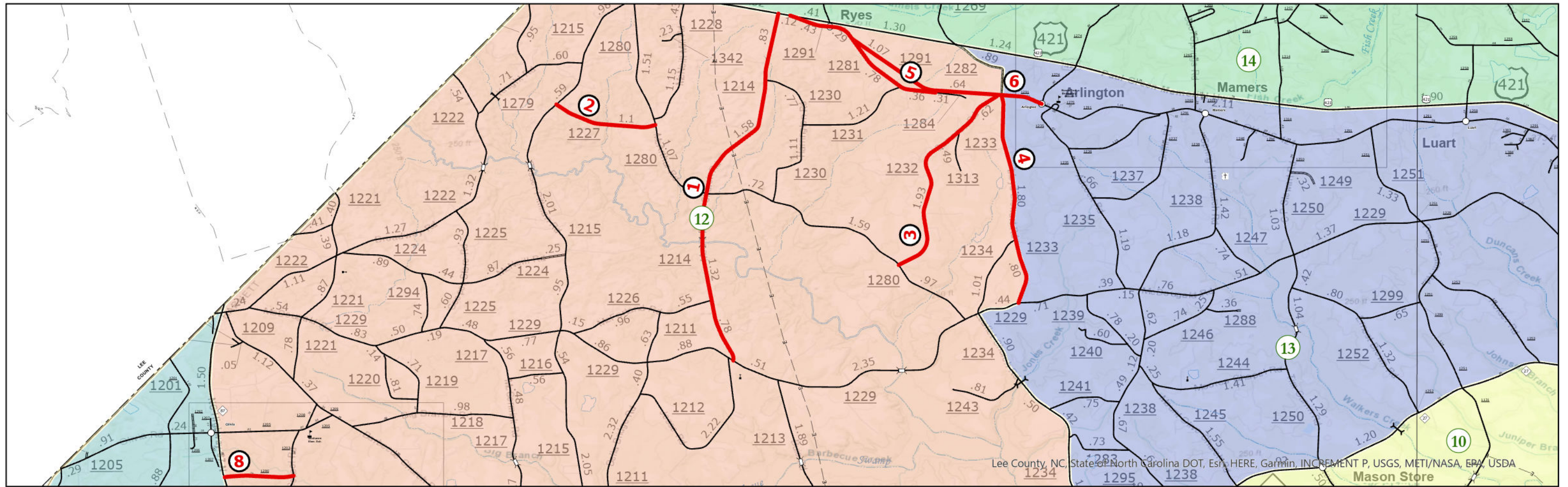
**ROUTE NO.: VARIES**

**LOCATION: VARIES**

**COUNTY: HARNETT**

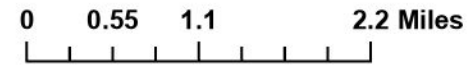
**LENGTH OF PROJECT: 20.33 MILES**

**TYPE OF WORK: WIDENING, RESURFACING & PAVEMENT MARKINGS**



# Harnett County Resurfacing 2024

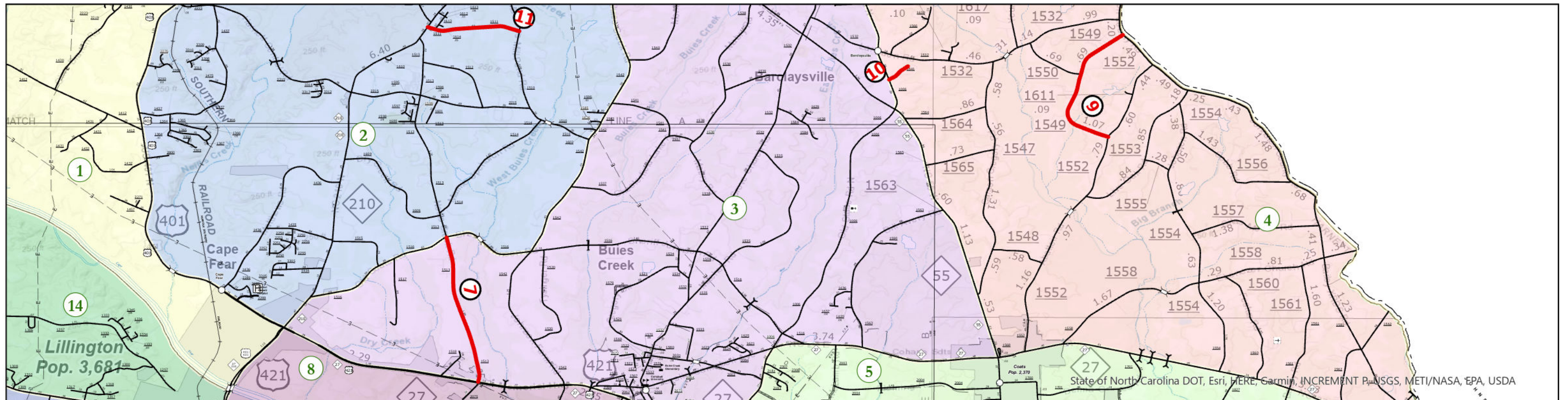
Contract: DF00499



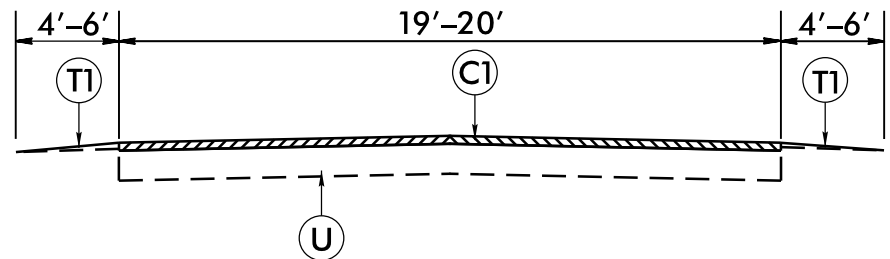
Legend

— WGS: 2025CPT.06.09.20431.1

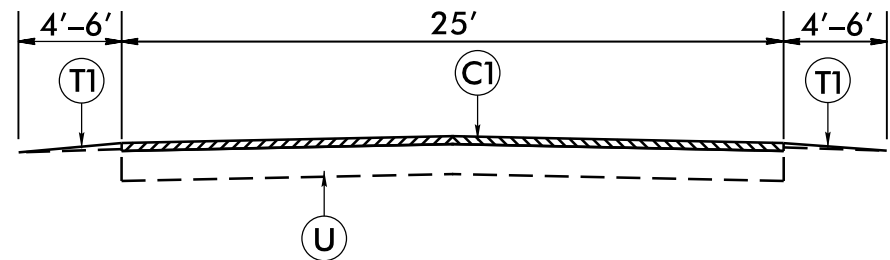
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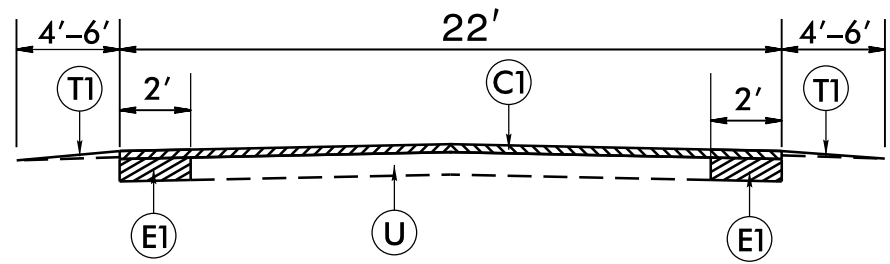
PAVEMENT SCHEDULE	
C1	1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
E1	5 1/2" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
R1	EXISTING CURB AND GUTTER
T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	0" - 1 1/2" MILLING
V2	1 1/2" MILLING



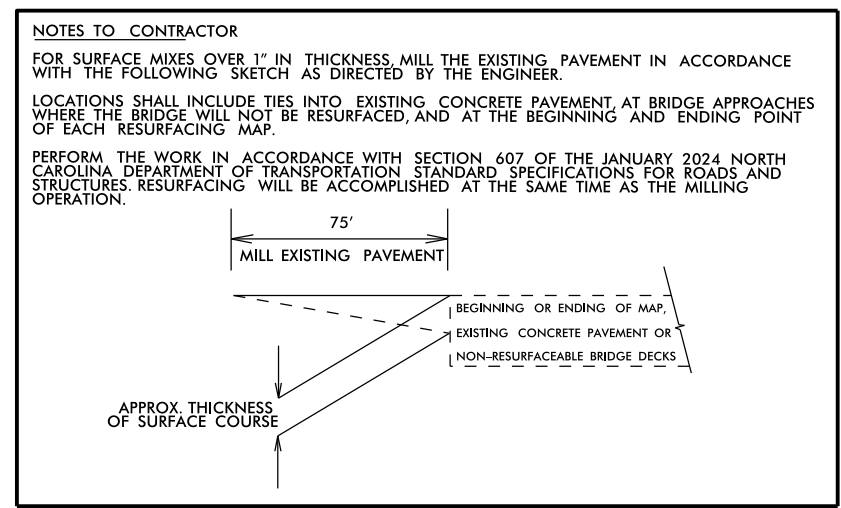
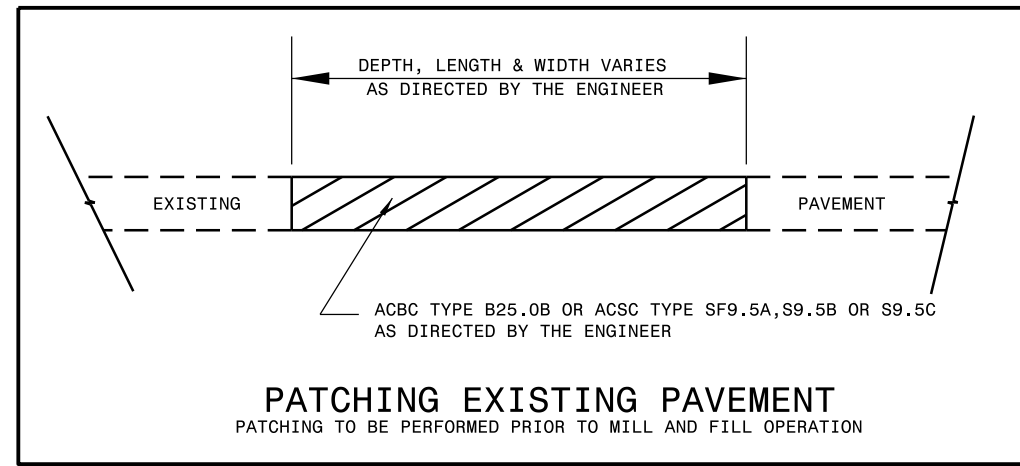
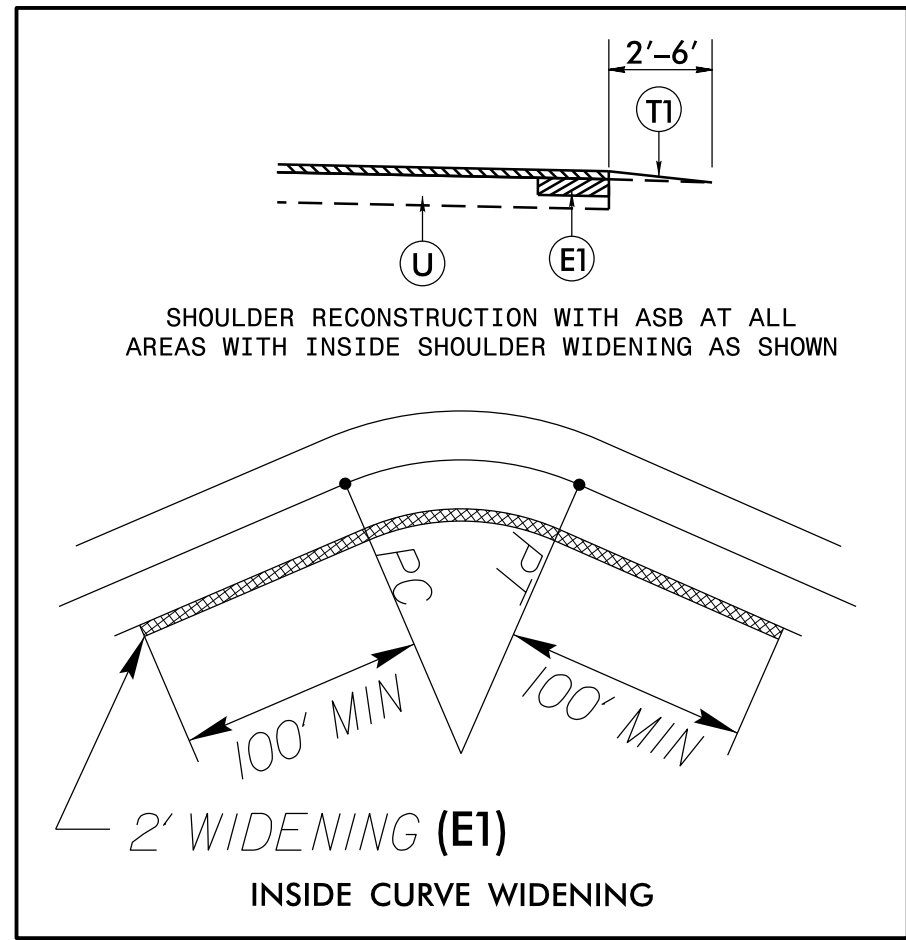
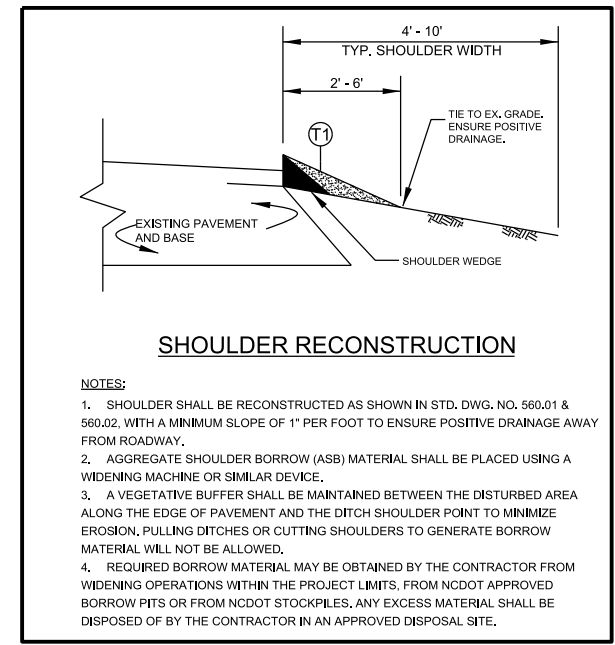
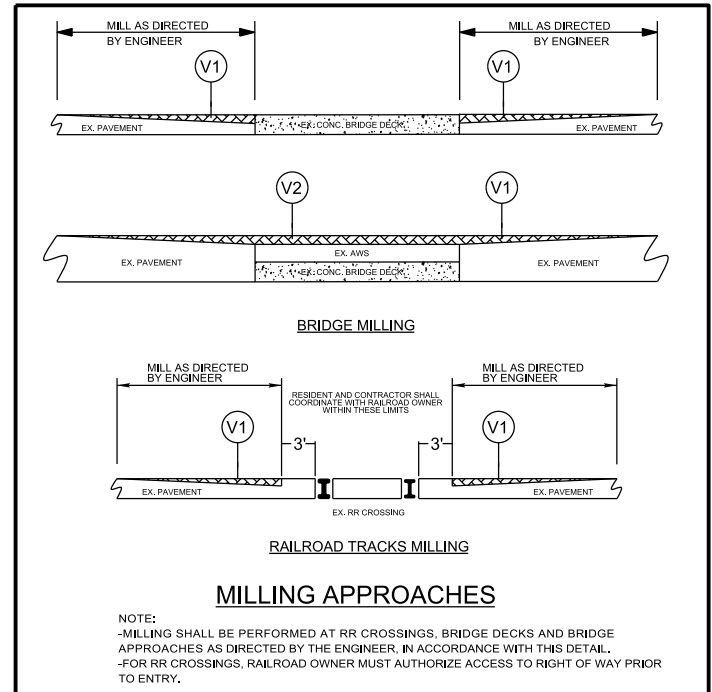
**TYPICAL SECTION NO. 1**  
-PLUS 2' INSIDE CURVE WIDENING ON MAPS 1, 3 & 9 (SEE DETAIL)



**TYPICAL SECTION NO. 2**



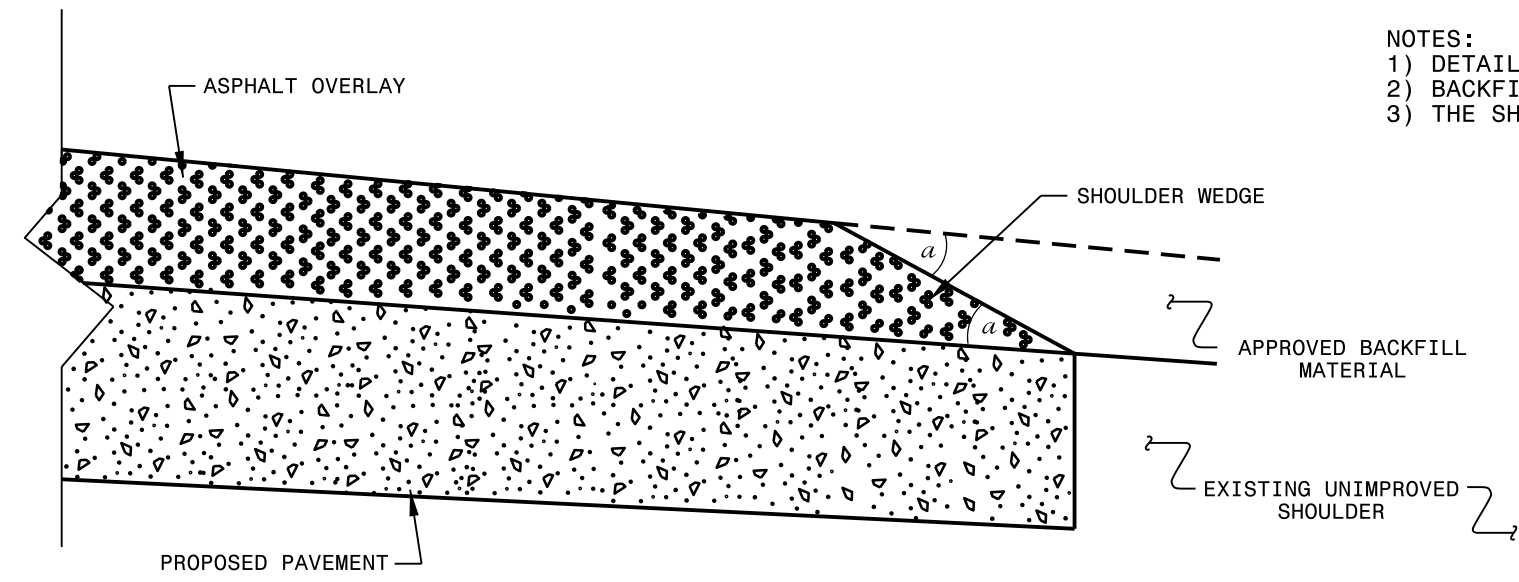
**TYPICAL SECTION NO. 3**



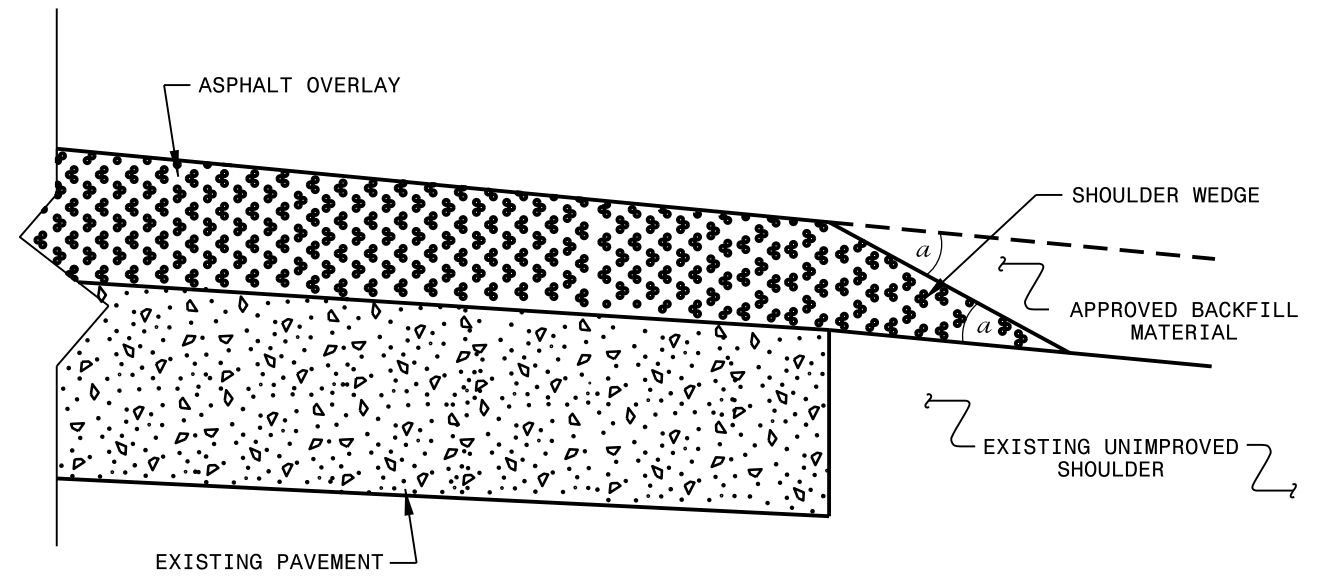
6/2/99  
25-SEP-2024 10:10  
S:\Projects\2024\Resurfacing\DF00499\2025CPT\1.06.09.20431.1.Fall 2024\_Hornett\Plans\TYPICALS.dgn



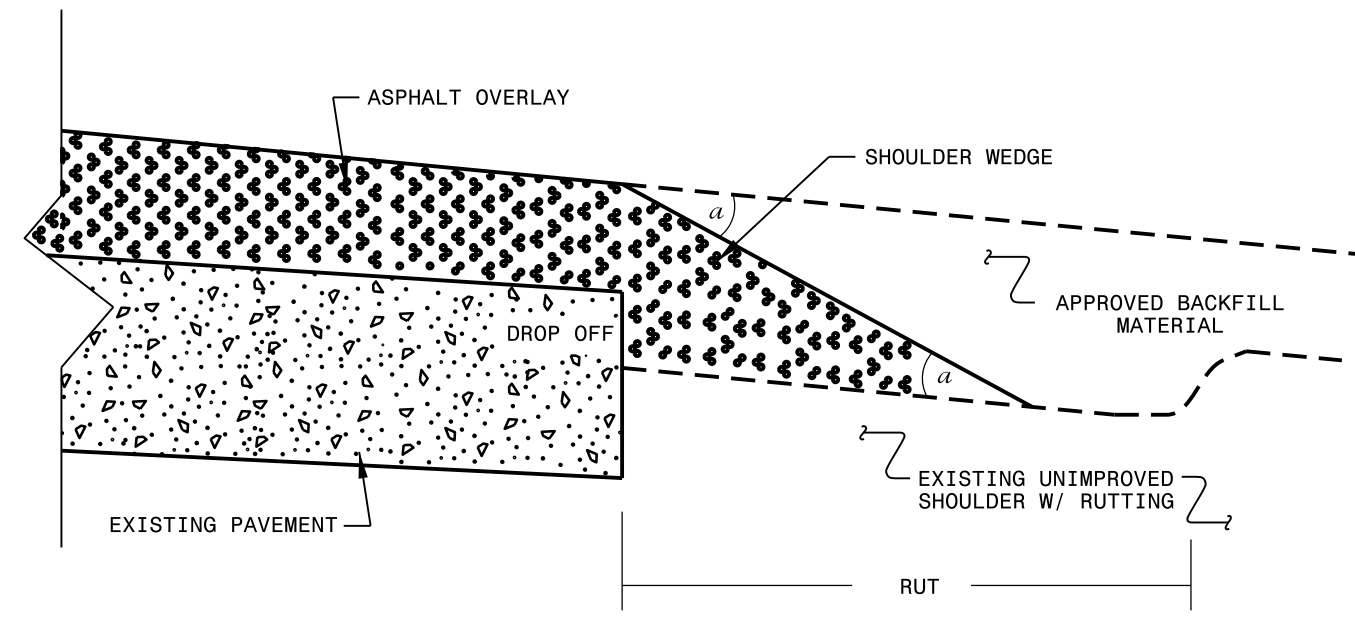
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFB AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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.: susr/details/stand/shoulderwedgedetail.dgn

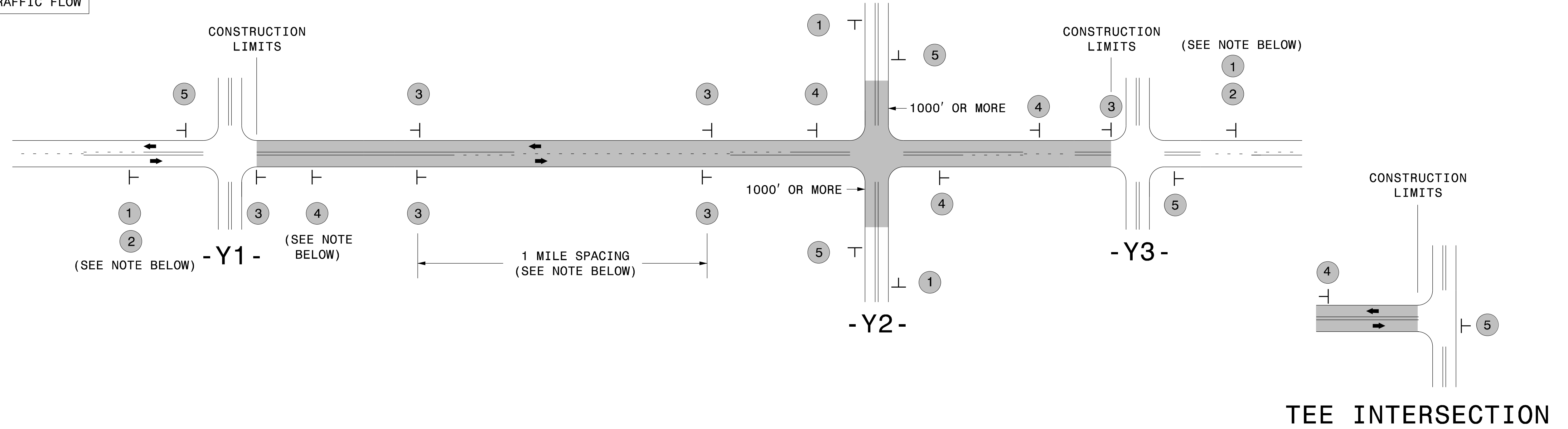
SYSTEMS DESIGN  
 USER NAME

# SIGNING FOR RESURFACING PROJECTS

**LEGEND**

┃ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



## MAINLINE (-L-) SIGNING

## -Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	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"> <li>1) LESS THAN 1000' OF RESURFACING ALONG -Y- LINE</li> <li>2) SUBDIVISION ROADS</li> <li>3) DEAD END ROADS</li> </ol> <p>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.</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>W20-1 48" X 48"</p> <p>PLACED 500' IN ADVANCE OF FLAGGER.</p> </div> <div style="text-align: center;"> <p>W20-7 A 48" X 48"</p> <p>PLACED 250' IN ADVANCE OF FLAGGER.</p> </div> </div>
	2	 NEXT XX MILES W7-3aP 24" X 18"	#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)	
	3	 LOW SOFT SHOULDER SP 13107 48" X 48"	<ul style="list-style-type: none"> <li>- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.</li> <li>- AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.</li> </ul>	
	4	 ROAD UNDER CONST SP 13106 48" X 48"	<ul style="list-style-type: none"> <li>- THESE ARE FOR -Y- LINES THAT ARE "THROUGH" ROADWAYS.</li> <li>- DEAD END AND SUBDIVISION ROADS ARE NOT "THROUGH" ROADWAYS.</li> <li>- INSTALL 500' +/- FROM EACH -Y- LINE APPROACH AS SHOWN ABOVE.</li> <li>- 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.</li> <li>- A MAXIMUM OF 2 SIGN SETS PER MILE. DO NOT INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.</li> <li>- FOR TEE INTERSECTIONS, INSTALL WITHIN 500' +/- OF THE INTERSECTION ALONG -L- LINE.</li> </ul>	
	5	 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.

### 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.



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

**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.

<b>TWO LANE - TWO WAY ROADWAY - 55 MPH</b>		
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'

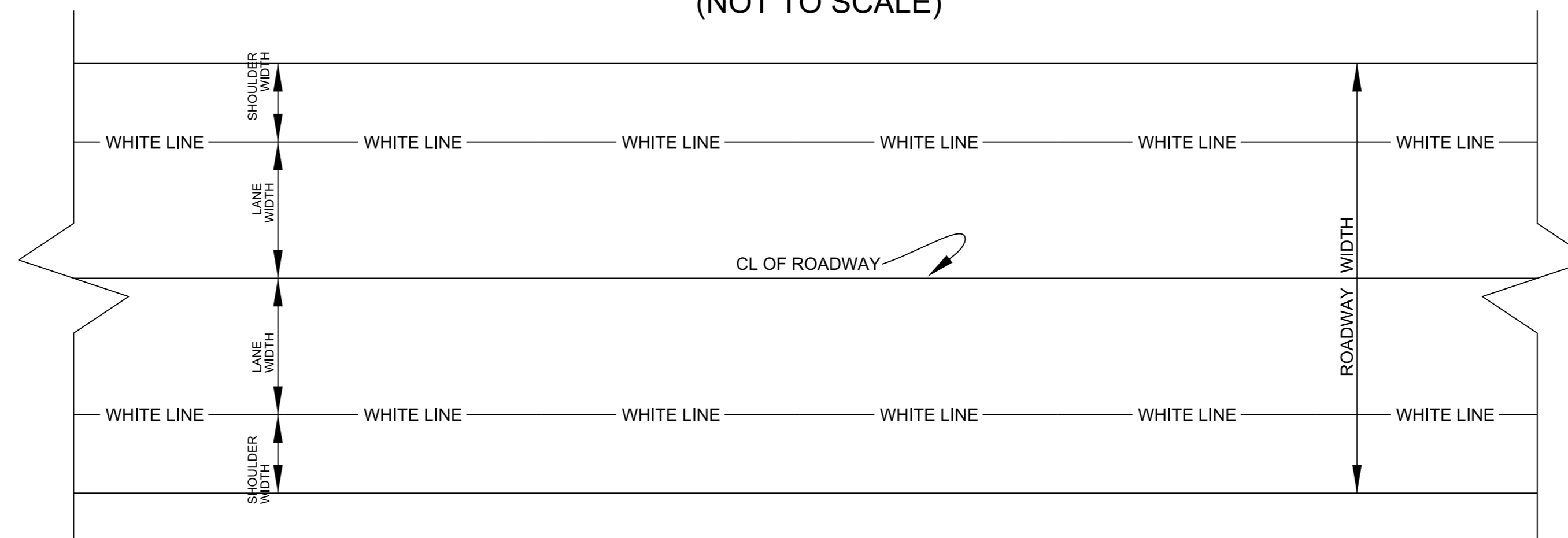
\* May vary due to pavement width

<b>TWO LANE - TWO WAY ROADWAY</b>		<b>50</b>
<b>MPH OR LESS</b>		
ROADWAY WIDTH	LANE 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 pavement width

**SCHEMATIC OF ROADWAY**

(NOT TO SCALE)



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

## SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	1220000000-E	1245000000-E	1260000000-E	1330000000-E	1491000000-E	1519000000-E	1575000000-E	1704000000-E
												INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	INCIDENTAL MILLING	BASE COURSE, B25.0C	SURFACE COURSE, S9.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT
												MI	FT	TONS	SMI	TON	SY	TONS	TONS
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	58	9.04	1,461		72	4,223	283	8
<b>TOTAL FOR MAP NO. 1</b>								<b>4.52</b>				<b>58</b>	<b>9.04</b>	<b>1,461</b>		<b>72</b>	<b>4,223</b>	<b>283</b>	<b>8</b>
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	35	2.14	346			1,036	70	7
<b>TOTAL FOR MAP NO. 2</b>								<b>1.07</b>				<b>35</b>	<b>2.14</b>	<b>346</b>			<b>1,036</b>	<b>70</b>	<b>7</b>
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
<b>TOTAL FOR MAP NO. 3</b>								<b>2.55</b>				<b>67</b>	<b>5.10</b>	<b>825</b>	<b>278</b>	<b>307</b>	<b>2,574</b>	<b>168</b>	<b>6</b>
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	
<b>TOTAL FOR MAP NO. 4</b>								<b>2.6</b>				<b>83</b>	<b>5.20</b>	<b>841</b>	<b>278</b>		<b>2,542</b>	<b>170</b>	
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	
<b>TOTAL FOR MAP NO. 5</b>								<b>1.17</b>				<b>47</b>	<b>2.34</b>	<b>378</b>	<b>556</b>		<b>1,189</b>	<b>79</b>	
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	
<b>TOTAL FOR MAP NO. 6</b>								<b>2.87</b>				<b>50</b>	<b>5.70</b>	<b>928</b>	<b>1,667</b>		<b>3,621</b>	<b>243</b>	
2025CPT.06.09.20431.1	Harnett	7	SR-1513 / NEILLS CREEK RD	FROM SR1516 TO US 421	3	2	2WU	1.87	18	2.58	4.45	42	3.80	614		1,398	2,023	199	
<b>TOTAL FOR MAP NO. 7</b>								<b>1.87</b>				<b>42</b>	<b>3.80</b>	<b>614</b>		<b>1,398</b>	<b>2,023</b>	<b>199</b>	
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
<b>TOTAL FOR MAP NO. 8</b>								<b>0.7</b>				<b>37</b>	<b>1.40</b>	<b>226</b>			<b>678</b>	<b>46</b>	<b>1</b>
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	
<b>TOTAL FOR MAP NO. 9</b>								<b>1.75</b>				<b>58</b>	<b>3.50</b>	<b>566</b>	<b>556</b>	<b>110</b>	<b>1,773</b>	<b>117</b>	
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	
<b>TOTAL FOR MAP NO. 10</b>								<b>0.26</b>				<b>17</b>	<b>0.50</b>	<b>84</b>			<b>252</b>	<b>17</b>	
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	20	1.94	314			939	63	
<b>TOTAL FOR MAP NO. 11</b>								<b>0.97</b>				<b>20</b>	<b>1.94</b>	<b>314</b>			<b>939</b>	<b>63</b>	
<b>TOTAL FOR PROJ NO. 2025CPT.06.09.20431.1</b>								<b>20.33</b>				<b>514</b>	<b>40.66</b>	<b>6,583</b>	<b>3,335</b>	<b>1,887</b>	<b>20,850</b>	<b>1,455</b>	<b>22</b>
<b>GRAND TOTAL</b>								<b>20.33</b>				<b>514</b>	<b>40.66</b>	<b>6,583</b>	<b>3,335</b>	<b>1,887</b>	<b>20,850</b>	<b>1,455</b>	<b>22</b>



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

# THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4685000000-E		4900000000-N
								MI	FT			WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	YELLOW & YELLOW MARKERS
												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
<b>TOTAL FOR MAP NO. 1</b>								<b>4.52</b>				<b>506</b>	<b>1</b>	<b>47,710</b>	<b>35,782</b>	<b>297</b>
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
<b>TOTAL FOR MAP NO. 2</b>								<b>1.07</b>				<b>120</b>		<b>11,299</b>	<b>4,660</b>	<b>70</b>
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
<b>TOTAL FOR MAP NO. 3</b>								<b>2.55</b>				<b>286</b>		<b>68,585</b>	<b>51,439</b>	<b>165</b>
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
<b>TOTAL FOR MAP NO. 4</b>								<b>2.6</b>				<b>291</b>		<b>71,328</b>	<b>53,498</b>	<b>170</b>
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
<b>TOTAL FOR MAP NO. 5</b>								<b>1.17</b>				<b>131</b>		<b>14,648</b>	<b>10,881</b>	<b>70</b>
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
<b>TOTAL FOR MAP NO. 6</b>								<b>2.87</b>				<b>321</b>		<b>30,307</b>	<b>22,730</b>	<b>182</b>
2025CPT.06.09.20431.1	Harnett	7	SR-1513 / NEILLS CREEK RD	FROM SR1516 TO US 421	3	2	2WU	1.87	18	2.58	4.45	213		19,747	14,810	297
<b>TOTAL FOR MAP NO. 7</b>								<b>1.87</b>				<b>213</b>		<b>19,747</b>	<b>14,810</b>	<b>297</b>
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
<b>TOTAL FOR MAP NO. 8</b>								<b>0.7</b>				<b>78</b>		<b>7,352</b>	<b>5,544</b>	<b>60</b>
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
<b>TOTAL FOR MAP NO. 9</b>								<b>1.75</b>				<b>196</b>		<b>18,480</b>	<b>13,860</b>	<b>112</b>
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				
<b>TOTAL FOR MAP NO. 10</b>								<b>0.26</b>				<b>29</b>				
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
<b>TOTAL FOR MAP NO. 11</b>								<b>0.97</b>				<b>109</b>		<b>9,704</b>	<b>7,122</b>	<b>66</b>
<b>TOTAL FOR PROJ NO. 2025CPT.06.09.20431.1</b>								<b>20.33</b>				<b>2,280</b>	<b>1.000</b>	<b>299,160</b>	<b>220,326</b>	<b>1,489</b>
													<b>519,486</b>			
<b>GRAND TOTAL</b>								<b>20.33</b>				<b>2,280</b>	<b>1.000</b>	<b>299,160</b>	<b>220,326</b>	<b>1,489</b>
													<b>519,486</b>			