STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION 6

PLANS

Letting Date: September 15, 2021

CONTRACT ID: DF00289

TIP NO.: -----

FEDERAL AID NO.: STATE FUNDED

WBS ELEMENT NO.: 2022CPT.06.03.10241.1, 2022CPT.06.03.20241.1

ROUTE NO.: NC 904, NC 905 & SR 1005

LOCATION: VARIES

COUNTY: COLUMBUS

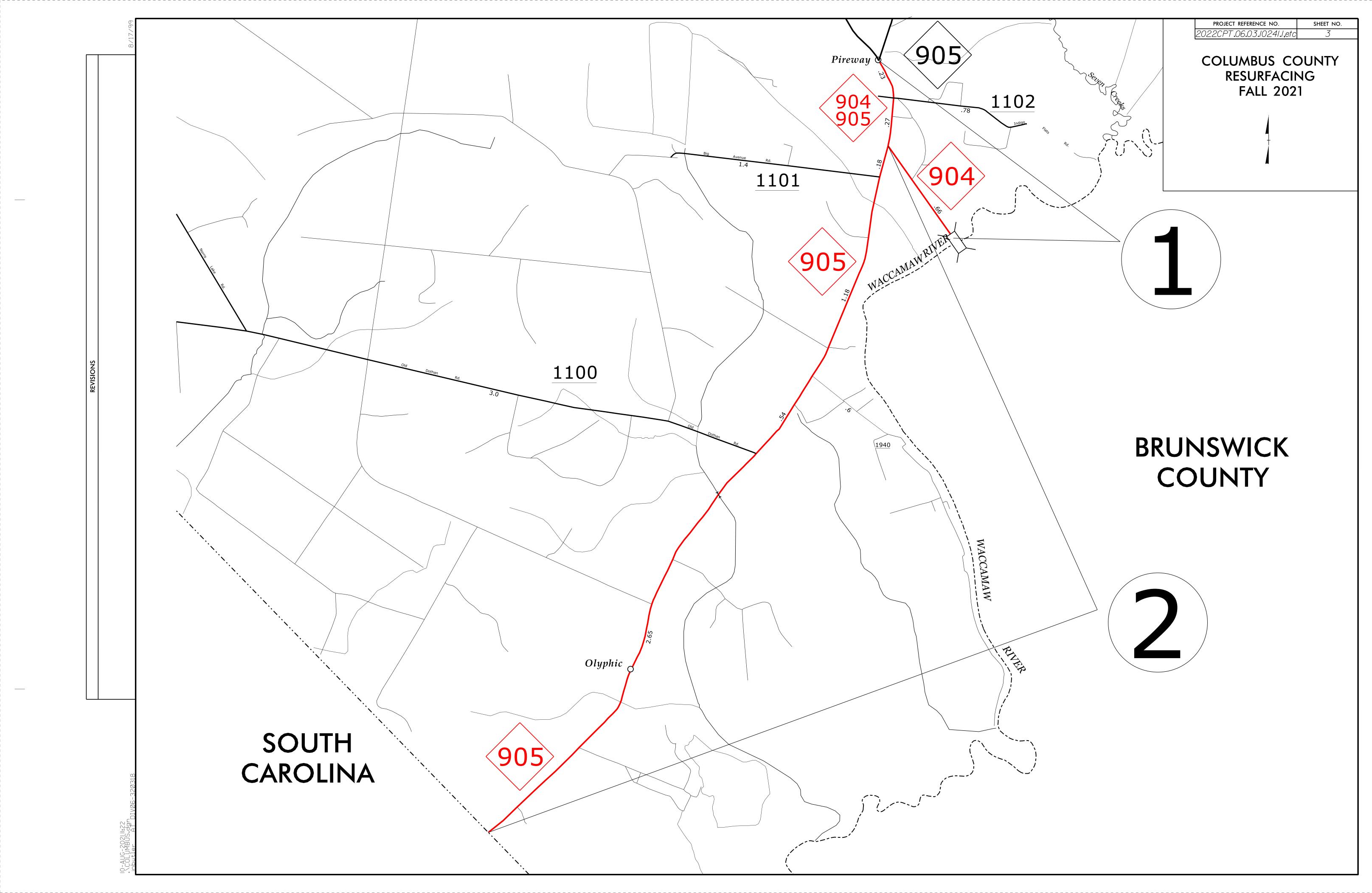
LENGTH OF PROJECT: 9.10 MILES

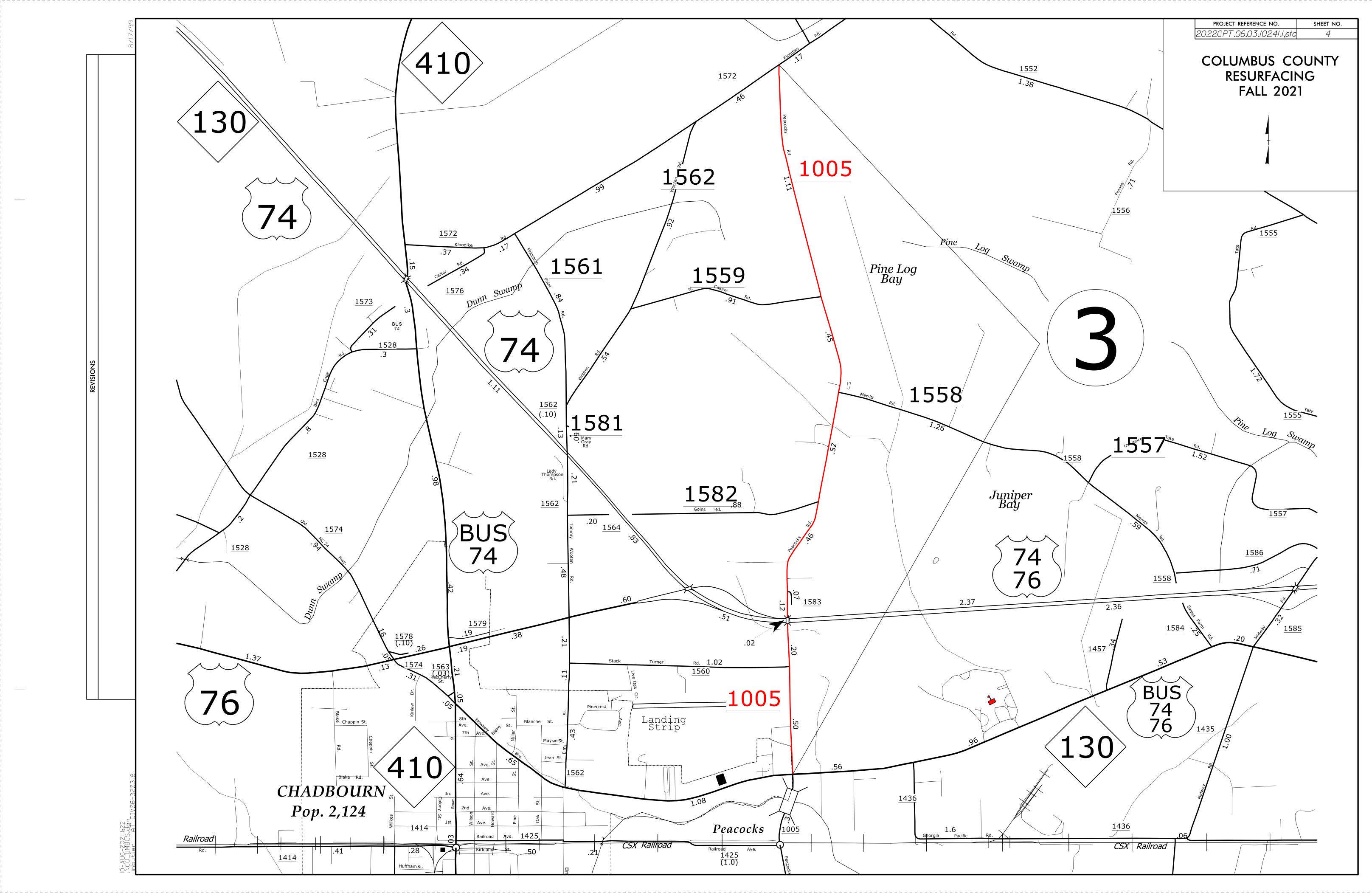
TYPE OF WORK: RESURFACING, MILLING & PVT. MKGS.

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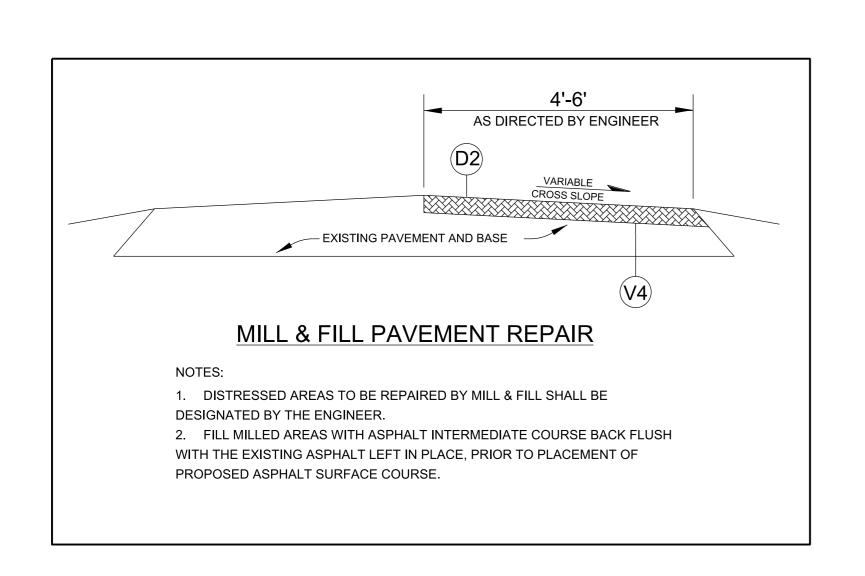
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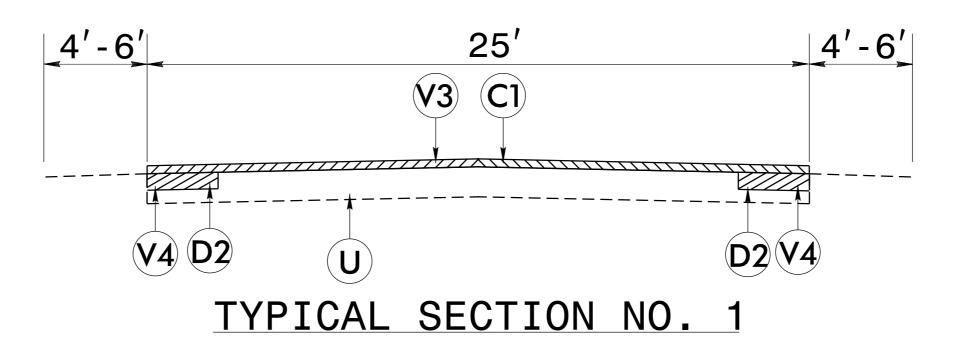
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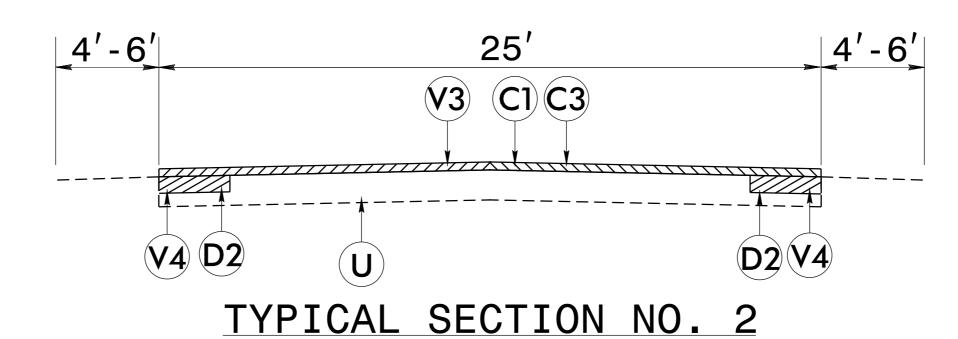


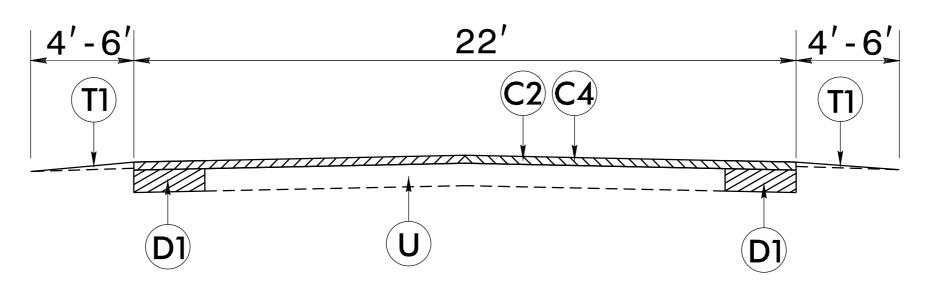


	PAVEMENT SCHEDULE
C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
СЗ	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C,AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
D2	2½" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C,AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
Т1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING ASPHALT PAVEMENT
V1	0"-1½" MILLING
V2	1½" MILLING
V3	34" MILLING
V4	2½" MILLING









TYPICAL SECTION NO. 3

PROJECT REFERENCE NO. 2022CPT.06.03.10241.1,etc

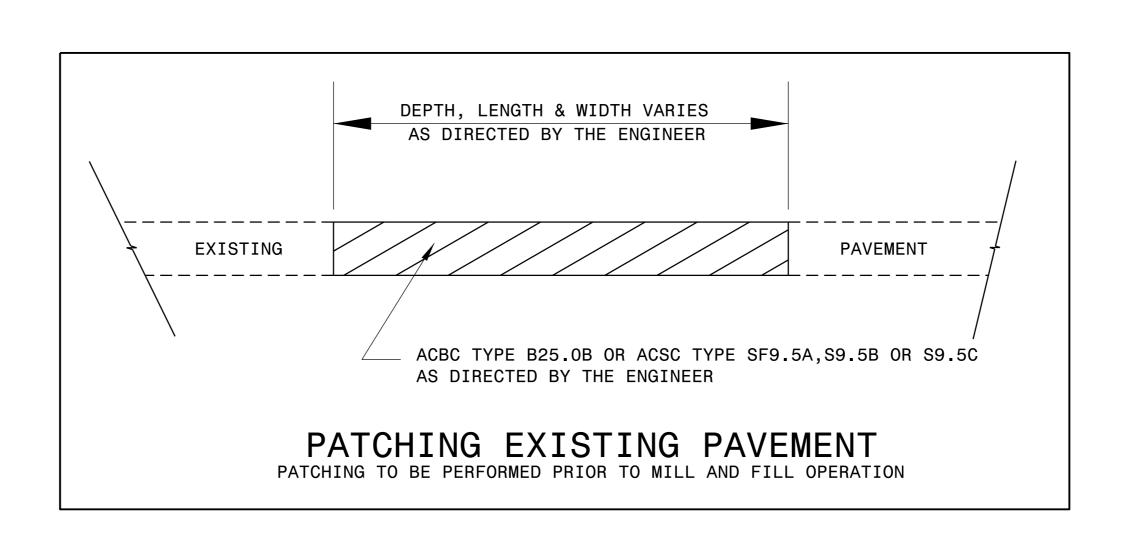
NOTES:

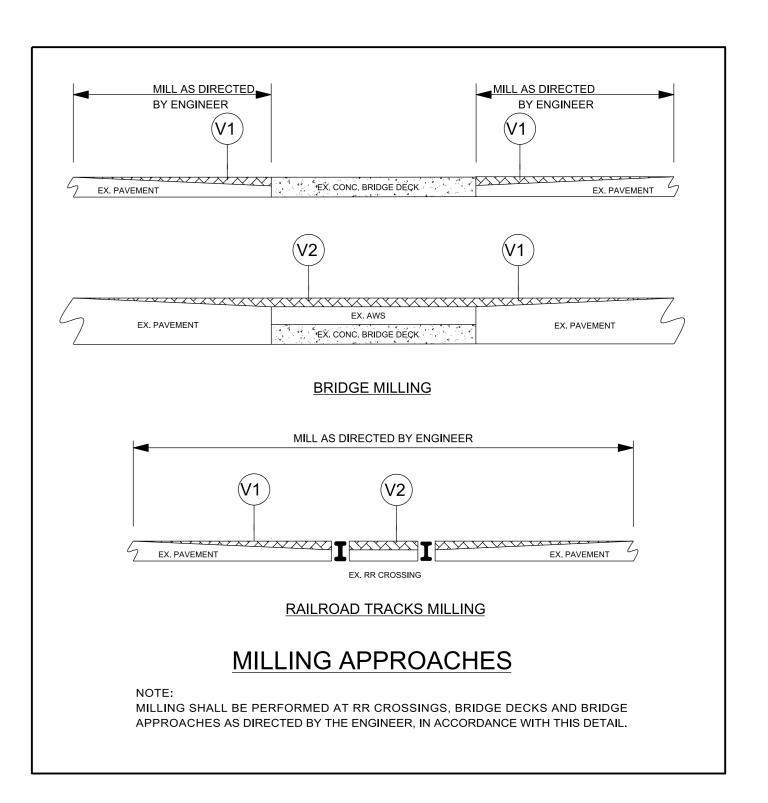
- 1. UPON COMPLETION OF SURFACE MILLING, TEMPORARY PAINT MARKINGS SHALL BE INSTALLED WITHIN TIME FRAME ESTABLISHED IN STD. SPECS.
- 2. CONTRACTOR SHALL BEGIN WIDENING AND/OR MILL & FILL OPERATION WITHIN 3 DAYS OF COMPLETING SURFACE MILLING.
- 3. CONTRACTOR SHALL BEGIN PLACEMENT OF FINAL SURFACE WITHIN 3 DAYS OF COMPLETING WIDENING AND/OR MILL & FILL OPERATION.

	PAVEMENT SCHEDULE
C1	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
C4	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C,AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
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T1	SHOULDER RECONSTRUCTION WITH AGGREGATE SHOULDER BORROW
U	EXISTING ASPHALT PAVEMENT
V1	0"-1½" MILLING
V2	1½" MILLING

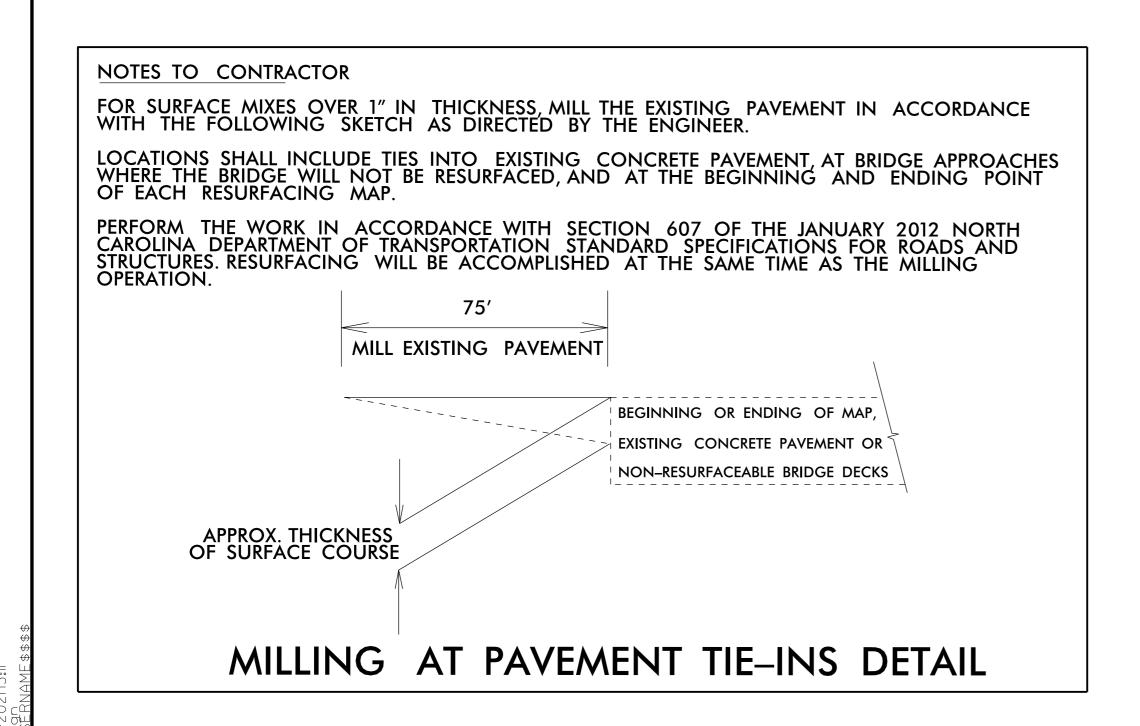
3∕4″ MILLING

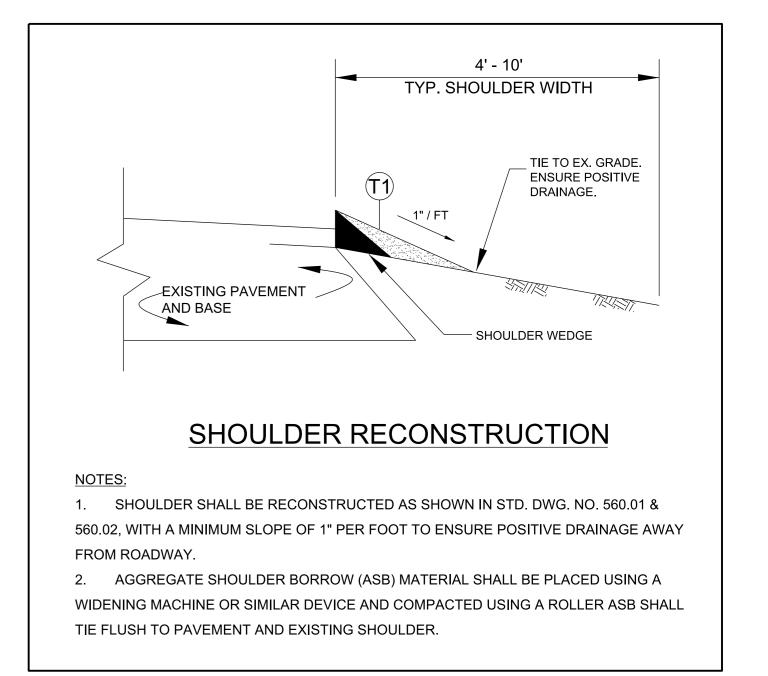
2½″ MILLING

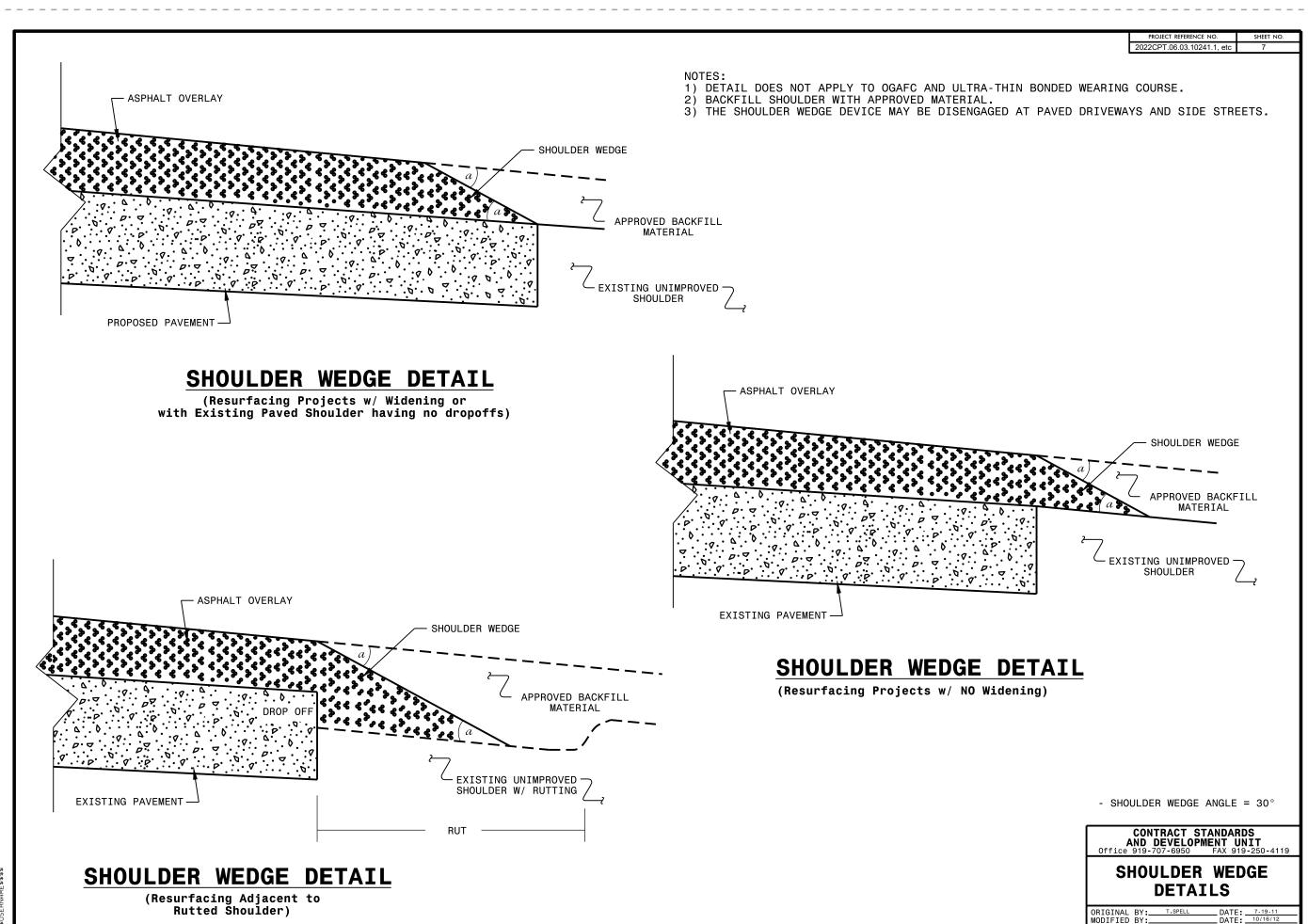




PROJECT REFERENCE NO. 2022CPT.06.03.10241.1,etc







PROJ. REFERENCE NO. SHEET NO. 2022CPT.06.03.10241.1, etc 8

SIGNING FOR RESURFACING PROJECTS

5

- Y2 -

LEGEND - STATIONARY SIGN

CONSTRUCTION
LIMITS

CONSTRUCTION
LIMITS

CONSTRUCTION
LIMITS

TOUCH OR MORE 4 3

THE PROPERTY OF TRAFFIC FLOW

CONSTRUCTION
LIMITS

THE PROPERTY OF TRAFFIC FLOW

THE PROPERTY OF TRAFFIC FLOW

CONSTRUCTION
LIMITS

THE PROPERTY OF TRAFFIC FLOW

THE PROPERTY OF TRAFFIC FLOW

CONSTRUCTION
LIMITS

THE PROPERTY OF TRAFFIC FLOW

THE P

1 MILE SPACING

(SEE NOTE BELOW)

TEE INTERSECTION

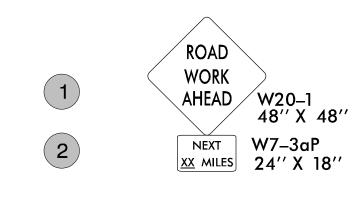
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

- Y3 -

IGNING NOTES AND EMENT PER DIRECTION

SO



(SEE NOTE BELOW)

BELOW)

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
- 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.

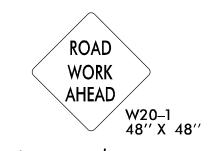
ALONG -L- LINE.

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.

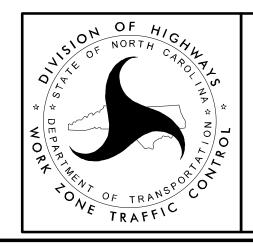


PLACED 500' IN ADVANCE OF FLAGGER.



(SEE NOTE BELOW)

PLACED 250' IN ADVANCE OF FLAGGER.



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

PROJECT REFERENCE NO.	SHEET NO
2022CPT.06.03.10241.1, etc	9

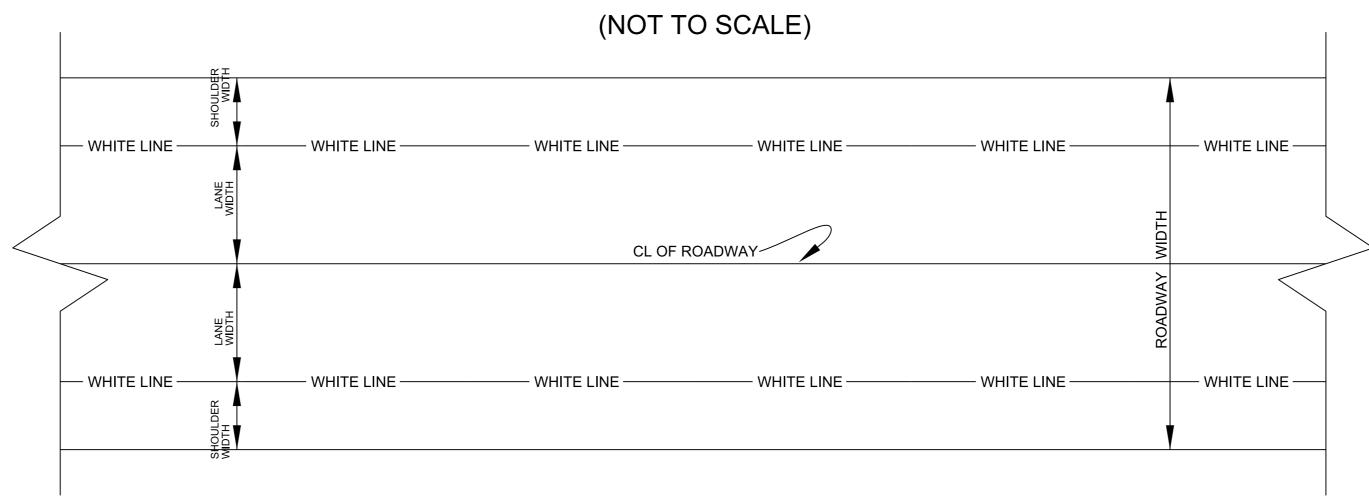
GUIDELINES FOR LANE WIDTHS ON RESURFACING PROJECTS

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'										
* May vary due to pavemen	t width											

TWO LANE - TWO WAY ROADWAY MPH OR LESS 50												
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



SUMMARY OF QUANTITIES

	SUMMARY OF QUANTITIES														6.03.10241.1, 6.03.20241.1		
											1220000000-E	1245000000-E	1260000000-E	129700	00000-E	1330000000-E	1503000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES LANE TYPE	FINAL SURFACE TESTING	WARM MIX ASPHALT REQUIRED	EN EN	WIDTH	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	AGGREGATE SHOULDER BORROW	2.5" MILLING	0.75" MILLING	INCIDENTAL MILLING	INTERMEDIAT
							REQUIRED		MI	FT	TONS	SMI	TON	SY	SY	SY	TONS
2022CPT.06.03.10241.1	Columbus	1	NC 904	FROM NC 905 TO BRUNSWICK CL	1	2 2WU	NO	NO	1.16	25	12			1,408	17,013	1,404	201
TOTAL F	FOR MAP N	0. 1							1.16		12			1,408	17,013	1,404	201
2022CPT.06.03.10241.1	Columbus	2	NC 905	FROM SC LINE TO NC 904	2	2 2WU	NO	NO	4.55	25			46	1,760	66,733	833	251
TOTAL F	FOR MAP N	0. 2							4.55				46	1,760	66,733	833	251
TOTAL FOR PROLI	NO 2022CD	T 00 02 402	144.4						5.71		12		46	3,168	83,746	2,237	452
TOTAL FOR PROJ I	NO. 2022CP	1.06.03.102	41.1											86,	,914		
2022CPT.06.03.20241.1	Columbus	3	SR 1005	FROM US 74 BUS. TO SR 1572	3	2 2WU	NO	NO	3.39	22		6.78	1,130			2,183	1,814
TOTAL I	FOR MAP N	O. 3							3.39	_		6.78	1,130			2,183	1,814
TOTAL FOR PROJ I	TOTAL FOR PROJ NO. 2022CPT.06.03.20241.1								3.39			6.78	1,130			2,183	1,814
		1															
GR/	AND TOTAL								9.10		12	6.78	1,176	3,168	83,746	4,420	2,266
SIG														86,	,914		

SHEET NO.

PROJECT NO.

TOTAL NO.

											1519000000-E	152000000-E	1523000000-E	1524000000-E	1575000000-E	1704000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANE LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	>	SURFACE COURSE, S9.5B	LEVELING COURSE, S9.5B	SURFACE COURSE, S9.5C	LEVELING COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT
										FT	TONS	TONS	TONS	TONS	TONS	TONS
2022CPT.06.03.10241.1	Columbus		NC 904	FROM NC 905 TO BRUNSWICK CL	1	2 2WU	NO	NO	1.16	25			1,530		101	10
TOTAL	FOR MAP NO	D. 1							1.16				1,530		101	10
2022CPT.06.03.10241.1	Columbus	2	NC 905	FROM SC LINE TO NC 904	2	2 2WU	NO	NO	4.55	25			5,681	30	355	10
TOTAL	FOR MAP NO	O. 2							4.55				5,681	30	355	10
TOTAL FOR PROJ	TOTAL FOR PROJ NO. 2022CPT.06.03.10241.1								5.71				7,211	30	456	20
2022CPT.06.03.20241.1	Columbus	3	SR 1005	FROM US 74 BUS. TO SR 1572	3	2 2WU	NO	NO	3.39	22	4,414	1,544			486	
TOTAL	FOR MAP NO	O. 3							3.39		4,414	1,544			486	
TOTAL FOR PROJ NO. 2022CPT.06.03.20241.1								3.39		4,414	1,544			486		
GR	AND TOTAL								9.10		4,414	1,544	7,211	30	942	20

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO. SHEET NO. TOTAL NO. 2022CPT.06.03.10241.1, 2022CPT.06.03.20241.1

	4413000000-E 4457000000-N														481000000-E	
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION		LANES	ANE TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" X 90 M WHITE THERMO	4" X 90 M YELLOW THERMO	4" WHITE PAINT	4" YELLOW PAINT	4900000000-N YELLOW & YELLOW MARKERS
000000000000000000000000000000000000000			110.004	EDOLANO COS TO DEL NIOVIGIA OL			~		FT		LS	LF_	LF	LF	LF	EA
2022CPT.06.03.10241.1	Columbus		NC 904	FROM NC 905 TO BRUNSWICK CL	1	2	2WU	1.16	25		1	12,250	8,922	12,250	8,922	77
TOTAL F	OR MAP NO	. 1						1.16		130	1	12,250	8,922	12,250	8,922	77
2022CPT.06.03.10241.1	Columbus	2	NC 905	FROM SC LINE TO NC 904	2	2	2WU	4.55	25	510		48,048	34,506	48,048	34,506	300
TOTAL F	OR MAP NO	. 2						4.55		510		48,048	34,506	48,048	34,506	300
TOTAL FOR PROJEC	O 2022CDT	00 02 402	44.4					5.71		640	1	60,298	43,428	60,298	43,428	377
TOTAL FOR PROJ N	O. 2022CP1	.06.03.102	41.1									10	103,726		3,726	
0000CDT 00 00 00044 4	Calverbus	2	OD 4005	EDOM 110 74 DUC TO 0D 4570		0	0\4/1.1	2.20	00	200		25 700	00.450			224
2022CPT.06.03.20241.1	Columbus		SR 1005	FROM US 74 BUS. TO SR 1572	3		2WU		22			35,798	23,153			
TOTAL F	OR MAP NO	. 3						3.39		380		35,798	23,153			224
TOTAL FOR BROLIN	O 2022CBT	UE US 3US	44 4					3.39		380		35,798	23,153			224
IOTAL FOR PROJ N	TOTAL FOR PROJ NO. 2022CPT.06.03.20241.1											58	,951			
GRA	ND TOTAL							9.1		1,020	1	96,096	66,581	60,298	43,428	601
- ORA	ND TOTAL											16	2,677	103	3,726	