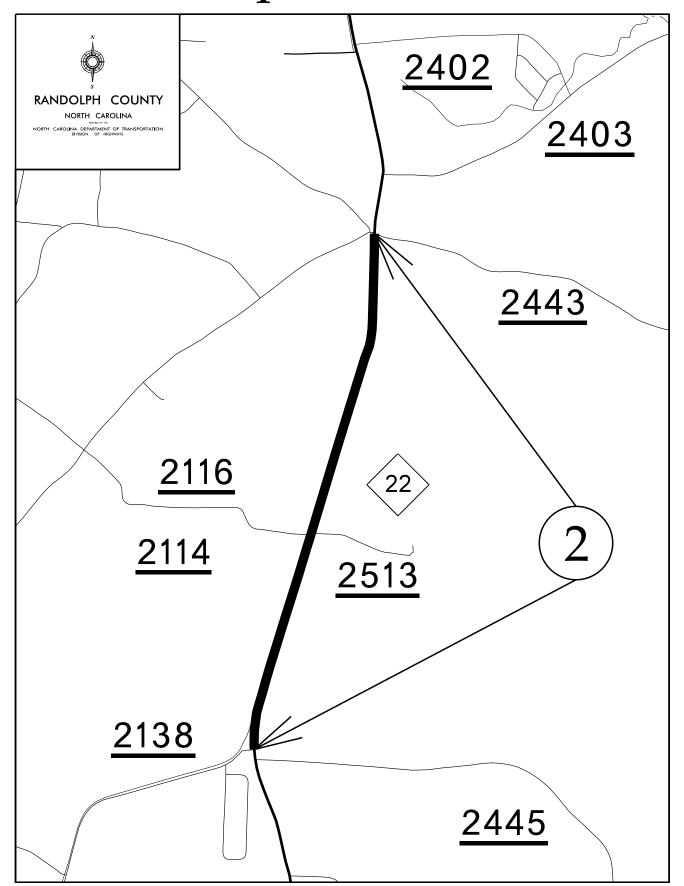
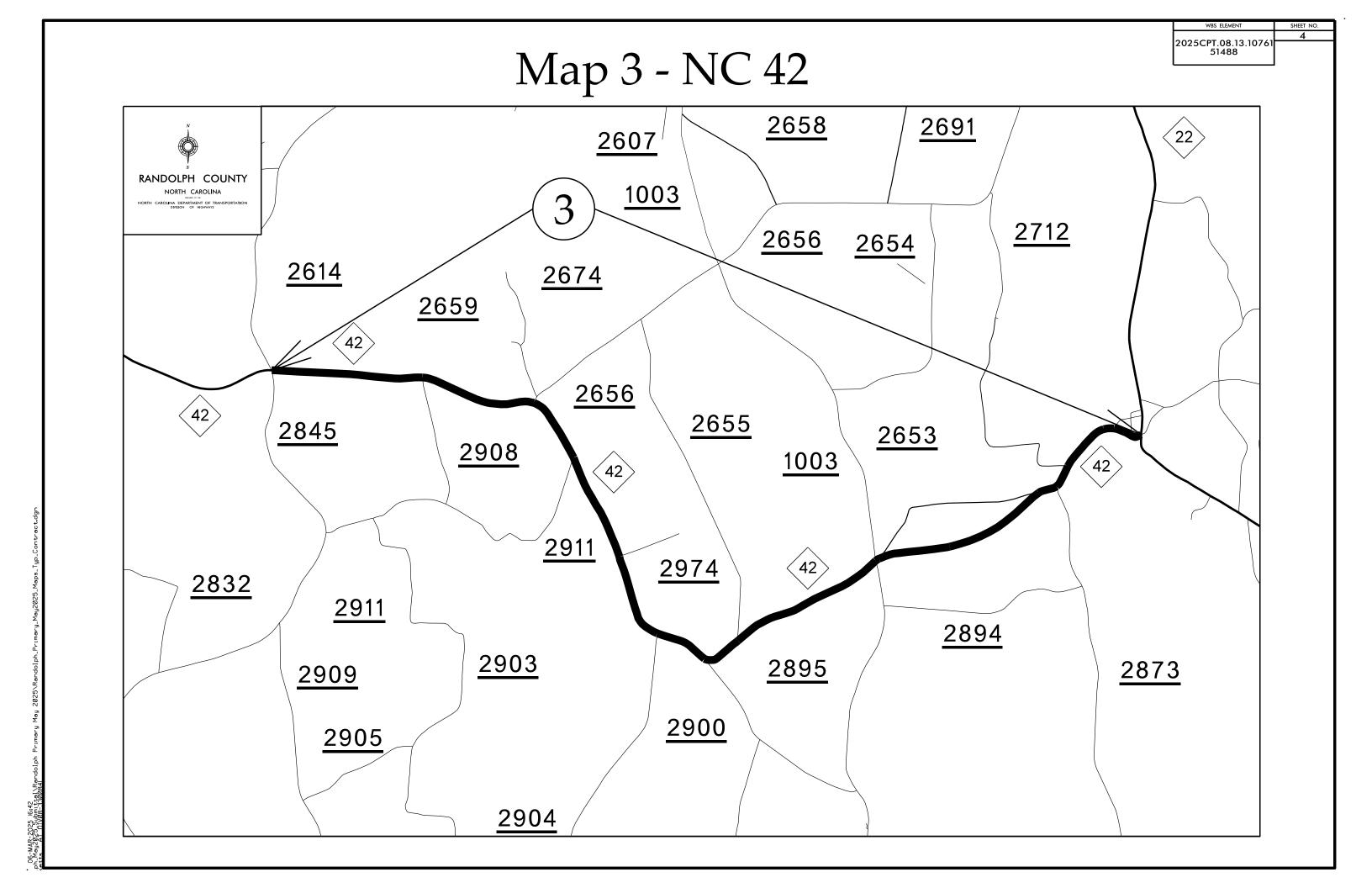


WBS ELEMENT SHEET NO.

3
2025CPT.08.13.10761
51488

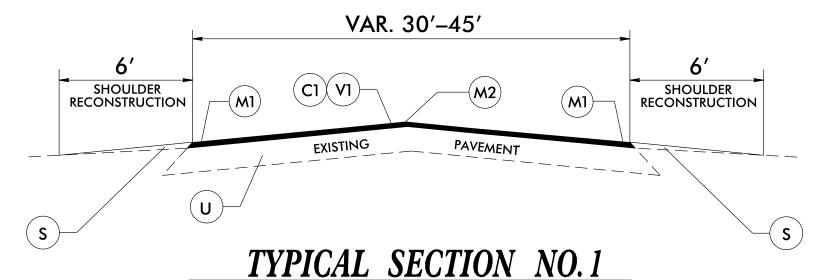
# Map 2 - NC 22



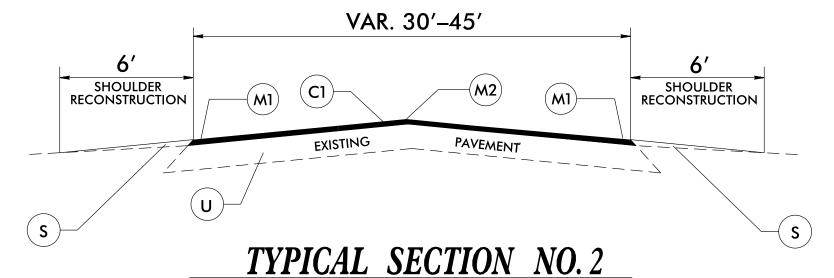


WBS ELEMENT SHEET NO.

5
2025CPT.08.13.10761
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USE FOR MAP #1 US 64
FROM DAVIDSON COUNTY LINE TO
EAST SIDE OF BRIDGE #33 OVER UWHARRIE RIVER

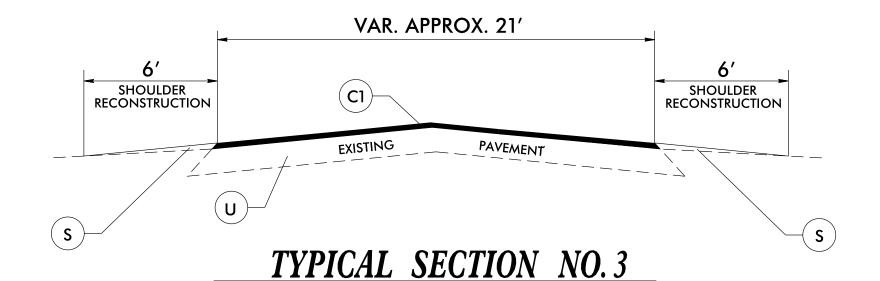


USE FOR MAP #1 US 64
FROM EAST SIDE OF BRIDGE #33 OVER UWHARRIE RIVER
TO PAVEMENT JOINT 300 FT EAST OF SR 2079 (GRAHAM DR)

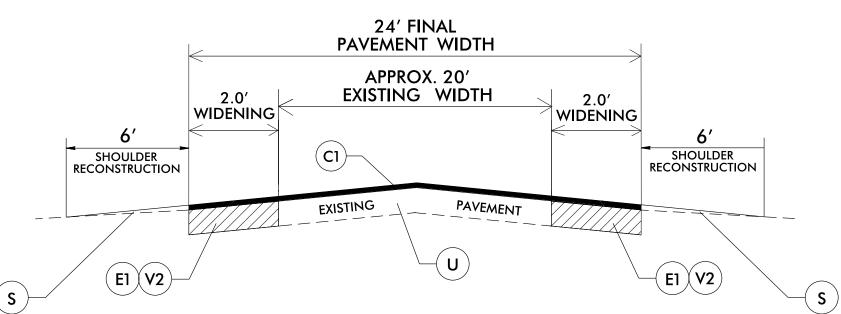
	PAVEMENT SCHEDULE
<b>C</b> 1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
E1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
M1	MILLED RUMBLE STRIPS, EDGELINE (12")
M2	MILLED RUMBLE STRIPES, CENTERLINE (18")
S	AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	MILLING 1.5" IN DEPTH
V2	TRENCHING FOR BASE COURSE (SEE S.P.)

WBS ELEMENT SHEET NO.

2025CPT.08.13.10761
51488



USE FOR MAP #3 NC 42



<b>TYPICAL</b>	<b>SECTION</b>	<i>NO. 4</i>
USE FOR	MAP #2 NC	22

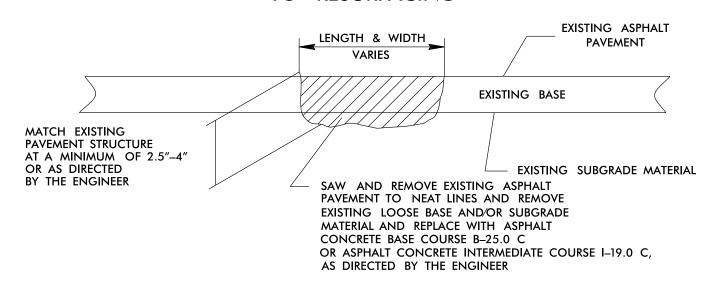
	PAVEMENT SCHEDULE
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER \$Q. YD.
<b>E</b> 1	PROP. APPROX. 5.5" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
M1	MILLED RUMBLE STRIPS, EDGELINE (12")
M2	MILLED RUMBLE STRIPES, CENTERLINE (18")
S	AGGREGATE SHOULDER BORROW
U	EXISTING PAVEMENT
V1	MILLING 1.5" IN DEPTH
V2	TRENCHING FOR BASE COURSE (SEE S.P.)

WBS ELEMENT SHEET NO.

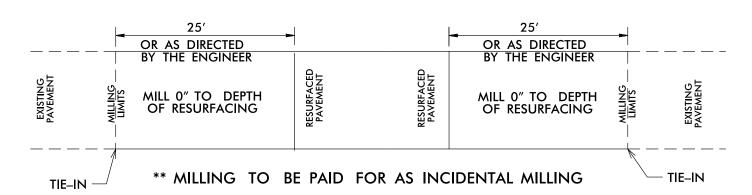
7
2025CPT.08.13.10761
51488

# **DETAILS**

# DETAILS OF PATCHING EXISTING PAVEMENT PRIOR TO RESURFACING



# PAVEMENT TIE-IN DETAIL



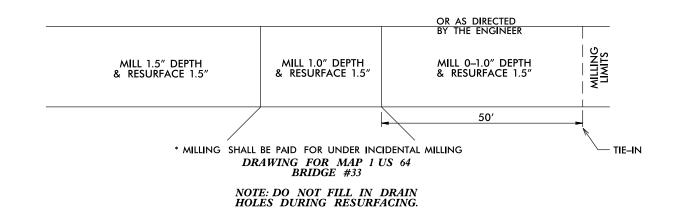
# PROJECT NOTES

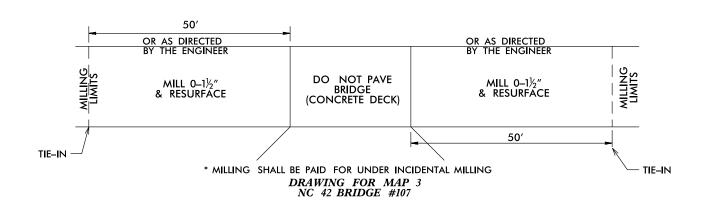
- PAINT MARKINGS INCLUDED FOR MILLING ON MAP 1.
- PAINT MARKINGS AND LINE REMOVAL INCLUDED FOR BRIDGE ON MAP 3.
- BASE FOR WIDENING ON MAP 2 NC 22 TO BE PAID UNDER HILC WBS 51488.

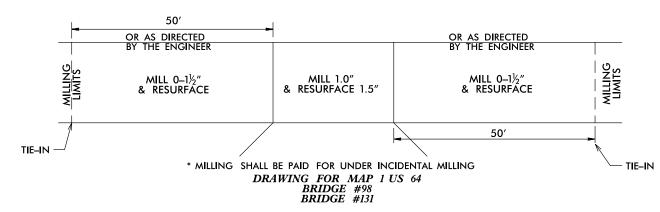
WBS ELEMENT SHEET NO.

8
2025CPT.08.13.10761
51488

# BRIDGE DETAILS

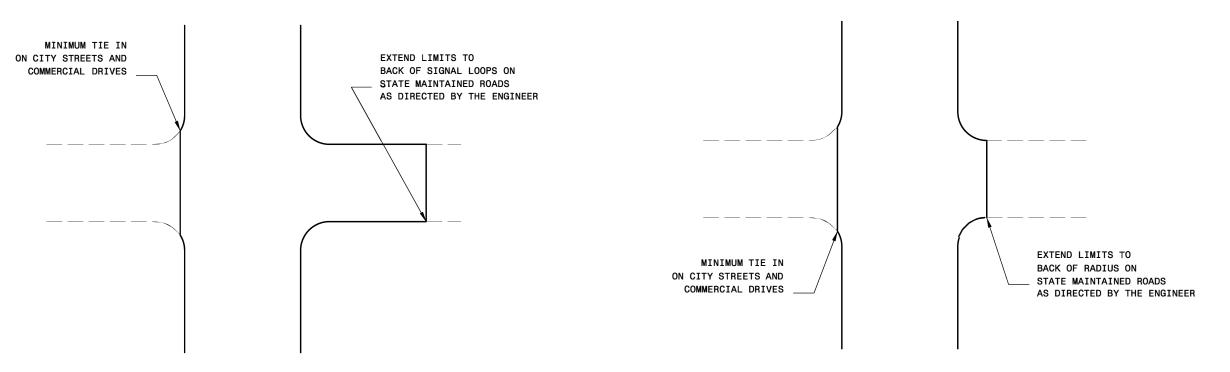






NOTE: DO NOT FILL IN DRAIN HOLES DURING RESURFACING.

F	PROJECT REFERENCE NO.	SHEET NO.
	2025CPT.08.13.10761, 51488	9



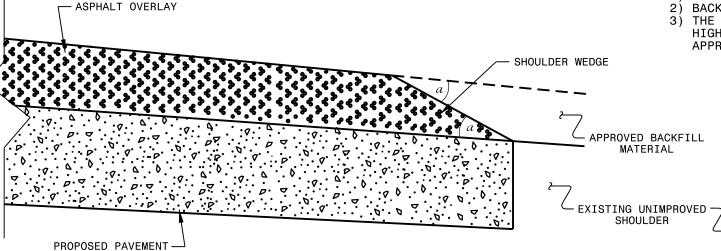
TYPICAL DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES

TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

4	ADDITIONAL INTERSECTIONS (NON	N-TYPICAL)
	Extend paving limits to back of rad	
MAP#	STREET NAME	COMMENTS

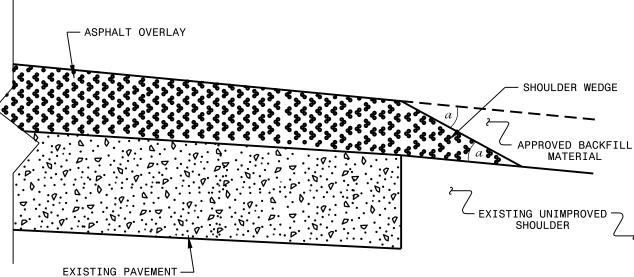
#### NOTES:

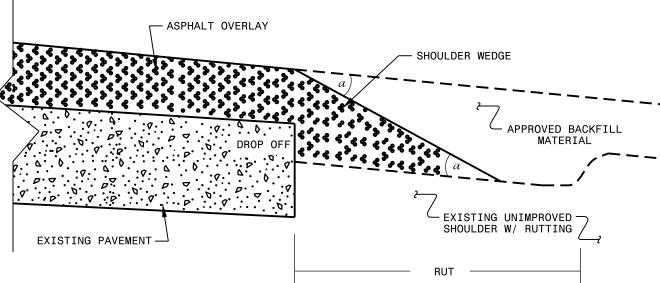
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS, SIDE STREETS, HIGH SHOULDERS, AND OTHER LOCATIONS NOT FEASIBLE TO CONSTRUCT AS APPROVED BY THE ENGINEER.



## 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 ANGLE =  $30^{\circ}$ 

# 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	2/2/16
CHECKED BY:		DATE:	
FILE SPEC s:u	sr/details/stand/	shoulderwedge	detail dgn

# SHOULDER WEDGE DETAIL

(Resurfacing Adjacent to Rutted Shoulder)

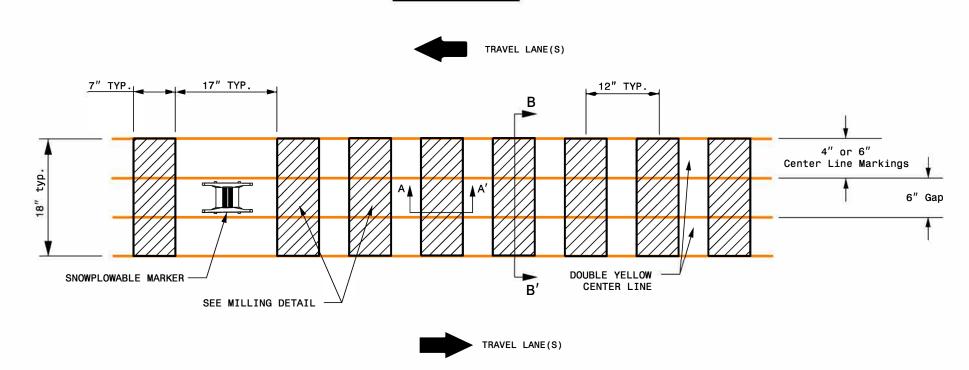
ATION ISION OF RALEIGH, DEP MARKERS WITH SNOWPLOWABLE STRIPES DRAWING FOR MARKING STRIPE DETAIL

STRIPS CENTERLINE RUMBLE ENGLISH RUMBLE TRADITIONAL

LANE TREATMENT

EDGE OF PAVEMENT

-EDGE OF PAVEMENT **EDGE LINE** 80' BETWEEN MARKERS CENTER LINES MILLED RUMBLE STRIPS ON CENTER OF ROADWAY SNOWPLOWABLE MARKER TRAVEL LANE(S) EDGE LINE



CENTER LINE

# SECTION A-A 16" or 18"

MILLING DETAIL

SECTION B-B'

REFERENCE DRAWING ID: Trad.CL with Snowplowable Markers

### NOTES:

See Table 2 within Rumble Strip

Policy for Design Guidance

- 1) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
- 3) INSTALL SNOWPLOWABLE MARKERS AT APPROXIMATELY 80' INCREMENTS. DO NOT MILL RUMBLE STRIPS IN SECTION WHERE SNOWPLOWABLE MARKERS ARE INSTALLED.

TRADITIONAL CENTERLINE RUMBLE **ENGLISH** STRIP DETAIL RUMBLE DRAWING

EPT DIV

STATE OF NORTH CAROLINA

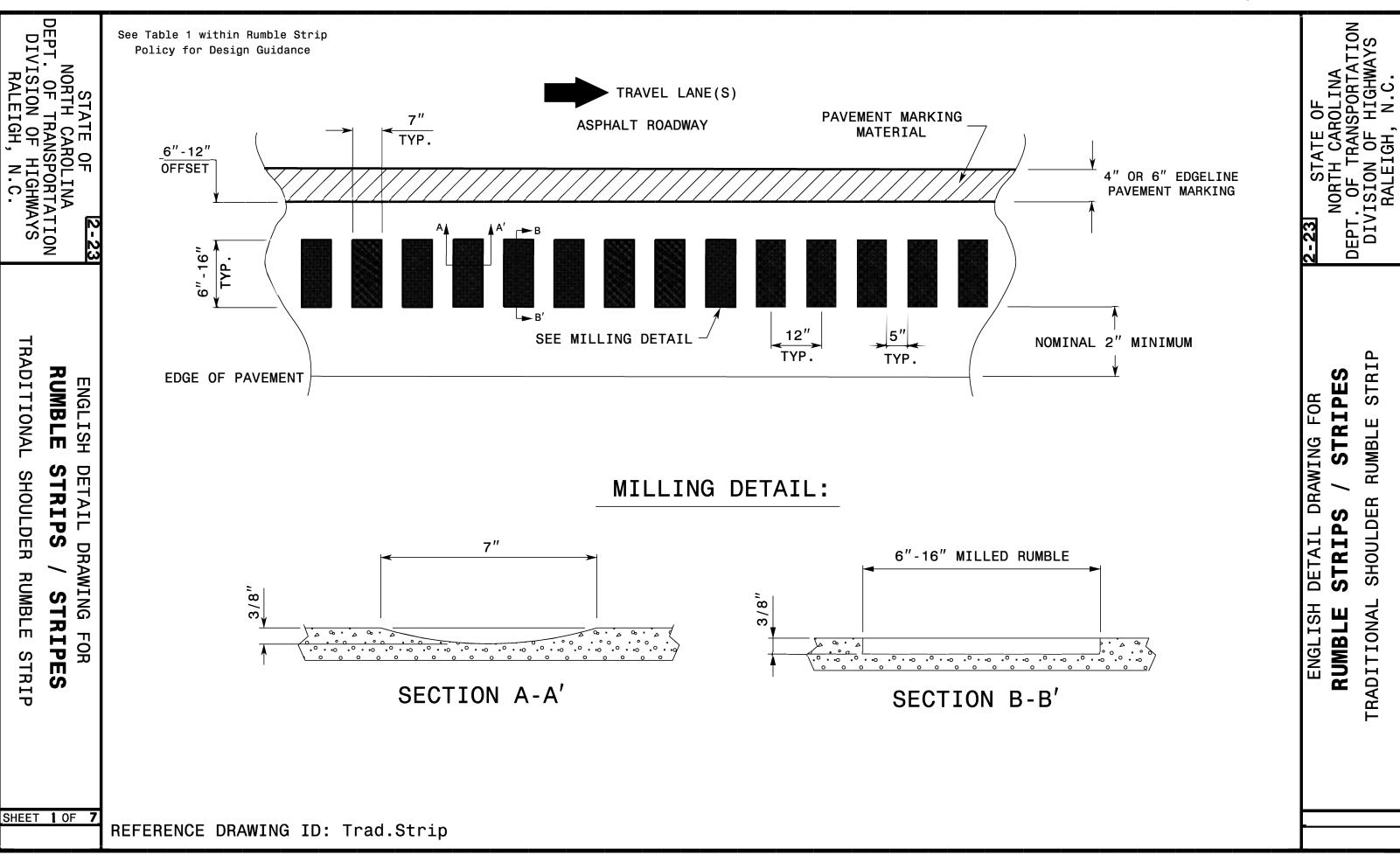
OF TRANSPORTATION

VISION OF HIGHWAY

STRIPE WITH SNOWPLOWABLE **STRIPES** FOR

SHEET 7 OF

MARKERS



SHOULDER

STRIP

PROJECT NO.	SHEET NO.	TOTAL NO.
2025CPT.08.13.10761, 51488	13	
2025GP1.00.13.10/61, 51400	13	

# SUMMARY OF QUANTITIES

								1	1245000000-E	1260000000-E	1297000000-E	1330000000-E	1491000000-E	1523000000-E	1575000000-E	1704000000-E	1841000000-E	1881000000-E	2845000000-N	5255000000-N
PROJECT NO COUNTY MAP NO ROUTE	DESCRIPTION	TYP NO	LANES	LANE	LENGTH	WIDTH	BEGIN	END	SHOULDER	AGGREGATE	1.5" MILLING	INCIDENTAL	BASE COURSE,	SURFACE	ASPHALT	PATCHING	GENERIC	GENERIC PAVING ITEM -	ADJUST METER	PORTABLE
				TYPE			MP	MP R	ECONSTRUCTI	SHOULDER		MILLING	B25.0C	COURSE, S9.5C	BINDER FOR	EXISTING	PAVING ITEM -	CENTERLINE MILLED	OR VALVE BOX	LIGHTING
									ON	BORROW					PLANT MIX	PAVEMENT	MILLED RUMBLE	RUMBLE STRIPS (ASPHALT		
																	STRIPS (ASPHALT	CONCRETE), 18"		
																	CONCRETE), 12"			
					MI	FT			SMI	TON	SY	SY	TONS	TONS	TONS	TONS	LF	LF	EA	LS
	FROM DAVIDSON COUNTY LINE TO PVMT																			
	JOINT 300 FT EAST OF SR 2079 (GRAHAM																			
2025CPT.08.13.10761 Randolph 1 US-64	DR)	1,2	2	2WU	10.7	30	0	10.7	21.40	3,000.00	79,058	16,250		18,094	1,080	250	112,992	40,700	2	1
TOTAL FOR MAP NO. 1					10.7				21.40	3,000.00	79,058	16,250		18,094	1,080	250	112,992	40,700	2	1
	FROM SR 2138 (MACK LINEBERRY RD) TO																			
	PVMT JOINT 140 FT NORTH OF SR 2443																			
2025CPT.08.13.10761 Randolph 2 NC-22	(RANDOLPH CHURCH RD)	4	2	2WU	2.26	24	24.55	26.81	4.52	635.00		520		2,675	163	100				
TOTAL FOR MAP NO. 2					2.26				4.52	635.00		520		2,675	163	100				
	FROM PVMT JOINT 100 FT EAST OF SR 2845																			
2025CPT.08.13.10761 Randolph 3 NC-42	(OLD NC HWY 13) TO NC 22/42	3	2	2WU		21	8.62 1	15.617	14.00	1,960.00		3,740		7,555	455	200				
TOTAL FOR MAP NO. 3					6.997				14.00	1,960.00		3,740		7,555	455	200				
TOTAL FOR PROJ NO. 2025CPT.08.13.10761					19.957				39.92	5,595.00	79,058	20,510		28,324	1,698	550	112,992	40,700	2	1
	FROM SR 2138 (MACK LINEBERRY RD) TO																			
51488 Randolph 2 NC-22	SR 2443 (RANDOLPH CHURCH RD)	4	2	2WU		24	24.55	26.81					1,665		75					
TOTAL FOR MAP NO. 2					2.26								1,665		75					
TOTAL FOR PROJ NO. 51488					2.26	1							1,665		75					
GRAND TOTAL																			_	
					22.217				39.92	5,595.00	79,058	20,510	1,665	28,324	1,773	550	112,992	40,700	2	1

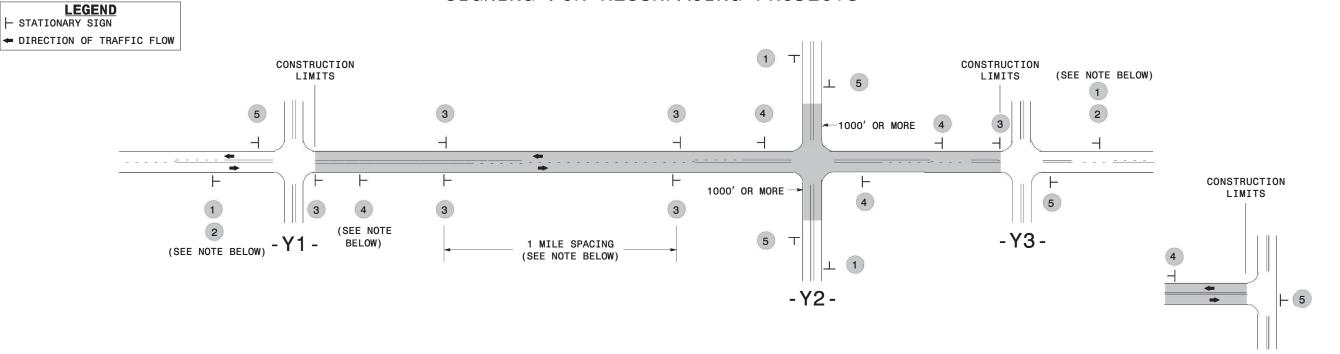
PROJECT NO.	SHEET NO.	TOTAL NO.
)25CPT.08.13.10761.51488	14	
723CF1.08.13.10761, 31466	14	

### THERMOPLASTIC AND PAINT QUANTITIES

										4457000000-N	4510000000-N	4687000000-E	46880	00000-E	4700000000-E	4709000000-E	E	4720000000-E	E		4725000000-	E	48150	00000-E	4825000000-E		4845000000-N		4850000000-E	489500	0000-N
PROJECT NO COUNTY MAP NO	ROUTE DESCRIPTION	TYP NO	LANES	LANE LI	ENGTH	WIDTH	BEGIN MP	END MP	WORK ZONE	TEMPORARY	LAW	4" X 240 M	6" X 90 M	6" X 90 M	12" X 90 M	24" X 90 M	THERMO MSG	THERMO MSG	THERMO MS	G THERMO LT	THERMO STR	R THERMORT	6" WHITE	6" YELLOW	12" YELLOW	PAINT RT	PAINT LT	PAINT STR	4" LINE REMOVAL	GENERIC	GENERIC
				TYPE					ADVANCE/GE	TRAFFIC	ENFORCEMEN	WHITE	YELLOW	WHITE	YELLOW	WHITE	SCHOOL 90 M	STOP 90 M	AHEAD 90 M	1 ARROW 90	ARROW 90 M	1 ARROW 90 M	PAINT	PAINT	PAINT	ARROW	ARROW	ARROW		PAVEMENT	PAVEMENT
									NERAL	CONTROL	T	THERMO	THERMO	THERMO	THERMO	THERMO				М										MARKING	MARKING
									WARNING																					ITEM	ITEM
									SIGNING																					POLYCARBON	POLYCARBON
																														ATE H-	ATE H-
																														SHAPED	SHAPED
																														MARKERS C&R	MARKERS Y&Y
					MI	FT			SF	LS	HR	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	LF	LF	LF	EA	EA	EA	LF	EA	EA
	FROM DAVIDSON COUNTY LINE TO	ĺ																													
	PVMT JOINT 300 FT EAST OF SR 2079	l																						1			1				
	US-64 (GRAHAM DR)	1,2	2		10.7	30	0	10.7	1,199		400		104,352	112,902	1,870	450	12			48	91	11	48,576	56,406	895	1	14	32		175	1,304
TOTAL FOR MAP NO. 1					10.7				1,199		400		104,352	112,902	1,870	450	12			48	91	11	48,576	56,406	895	1	14	32		175	1,304
	FROM SR 2138 (MACK LINEBERRY																														
	RD) TO PVMT JOINT 140 FT NORTH OF									*																					
	NC-22 SR 2443 (RANDOLPH CHURCH RD)	4	2		2.26	24	24.55	26.81	286			200	23,866	24,318		60		4	5												172
TOTAL FOR MAP NO. 2					2.26				286			200	23,866	24,318		60		4	5												172
	FROM PVMT JOINT 100 FT EAST OF SR																														
	NC-42 2845 (OLD NC HWY 13) TO NC 22/42	3	2	2WU		21	8.62	15.617					73,700	73,890		65							1,540	1,540					1,540		462
TOTAL FOR MAP NO. 3					6.997				784				73,700	73,890		65							1,540	1,540					1,540		462
TOTAL FOR PROJ NO. 2025CPT.08.13.107	761			1	19.957				2,269	1	400	200	201,918	211,110	1,870	575	12	4	5	48	91	11	50,116	57,946	895	1	14	32	1,540	175.000	1,938
		<u> </u>											413	3,028				21			150		10	8,062			47			2,113	3.000
<del>                                     </del>	FROM SR 2138 (MACK LINEBERRY	1	1					1	1		ı	ı								1	1	1		1	1		1	ı		1	
	RD) TO SR 2443 (RANDOLPH	l																						1							
51488 Randolph 2	NC-22 CHURCH RD)	1	2	2WU	2 26	24	24.55	26.81																							
TOTAL FOR MAP NO. 2	NO 22 GIONGITID)		-		2.26		24.00	20.01			<del> </del>			-			1	-	+	+	1	+		-			<del>                                     </del>				
		1			2.26			1	<del>                                     </del>		<del>                                     </del>						+	1	+	+	+	+	†	†	†	1	+	-		+	
TOTAL FOR PROJ NO. 51488			1		2.20			1			<del> </del>			1	1		+	1	1	+	1		<u> </u>	1	+		1	l		1	
	L.	<u> </u>						1	1	1	1	l			1	1	1			1			1		1	1				1	
	1												004.040						_	1 40			F0.440	57.040	205		1 44		4.540	475.000	1,938
GRAND TOTAL				2	22.217	I			2,269	1	400	200	201,918	211,110	1,870	575	12	4	5	48	91	11	50,116	57,946	895	1	14	32	1,540	175.000	1,530

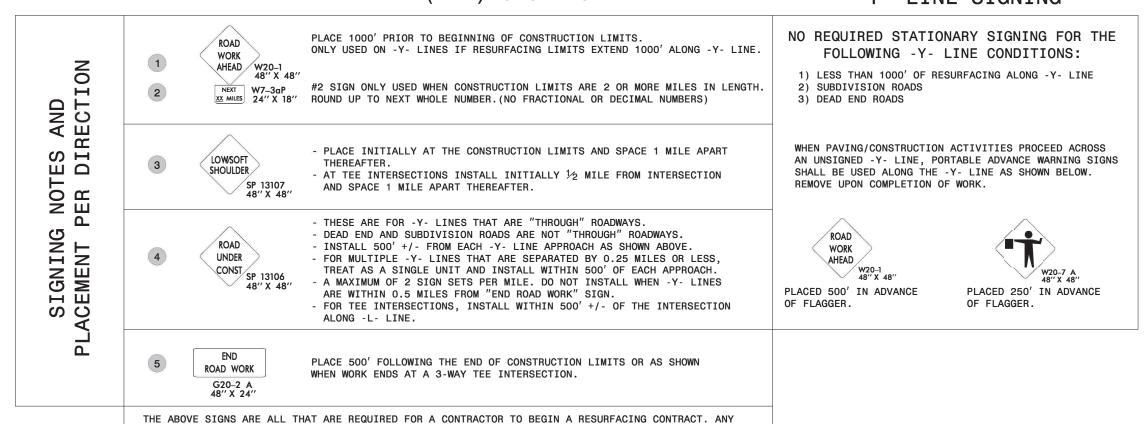
PROJ. REFERENCE NO. SHEET NO. 2025CPT.08.13.10761, 51488

### SIGNING FOR RESURFACING PROJECTS



## MAINLINE (-L-) SIGNING

### -Y- LINE SIGNING



MAPS LESS THAN 2 MILES START OF CONTRACT WORK.

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.

ADDITIONAL SIGNS REQUESTED BY NCDOT DIVISIONS SHALL BE INSTALLED WITHIN 7 BUSINESS DAYS OF THE

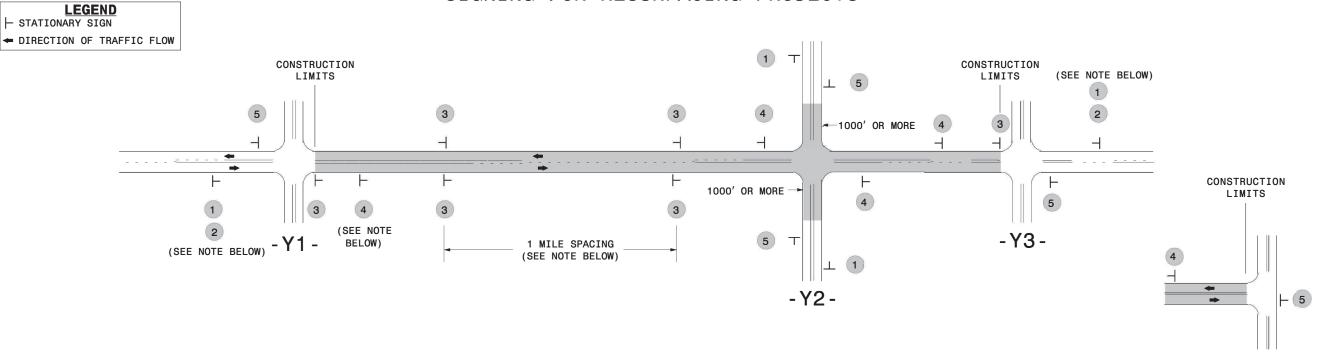


ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2-LANE ROADWAY
RESURFACING

TEE INTERSECTION

PROJ. REFERENCE NO. SHEET NO. 2025CPT.08.13.10761, 51488

### SIGNING FOR RESURFACING PROJECTS



## MAINLINE (-L-) SIGNING

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

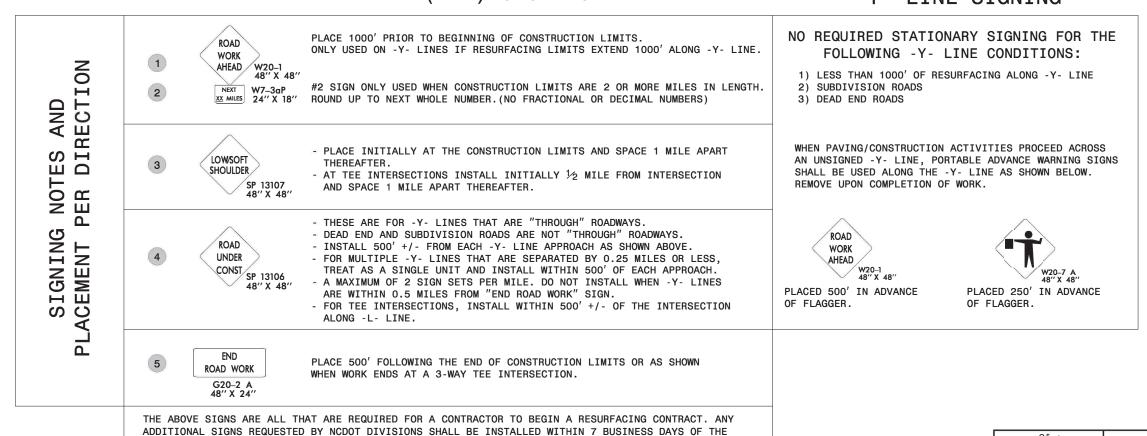
START OF CONTRACT WORK.

ADVANCE WARNINGS SIGNS.

MAPS LESS

THAN 2 MILES

### -Y- LINE SIGNING



ON OF HICKARD OF NORTH CAPACITY OF NORTH CAPACITY OF NORTH CAPACITY OF NORTH CAPACITY OF TRAFFIC

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

TEE INTERSECTION