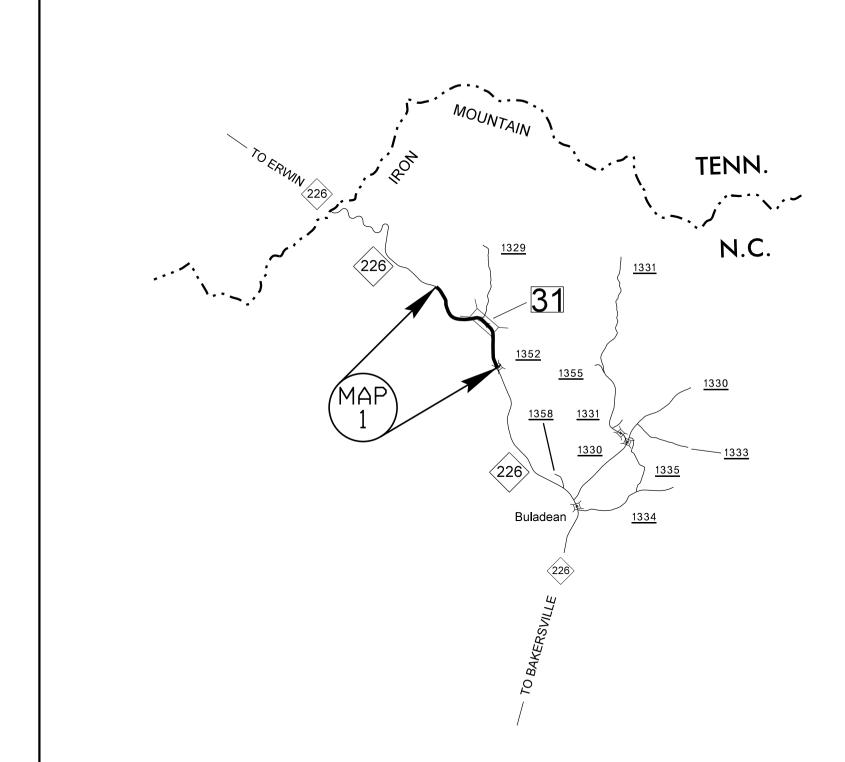
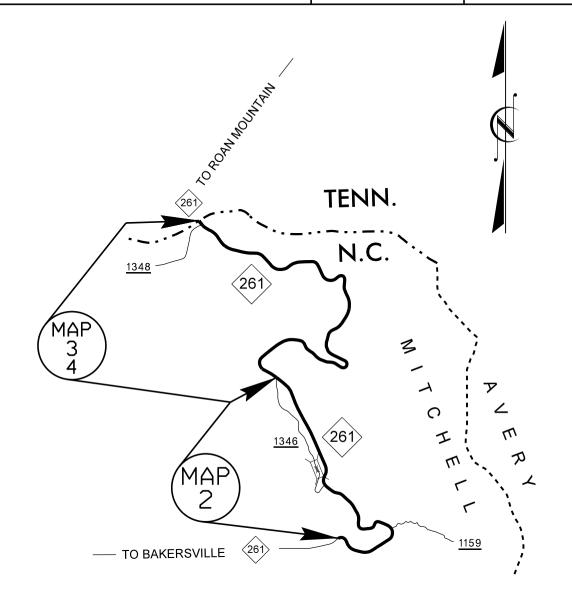
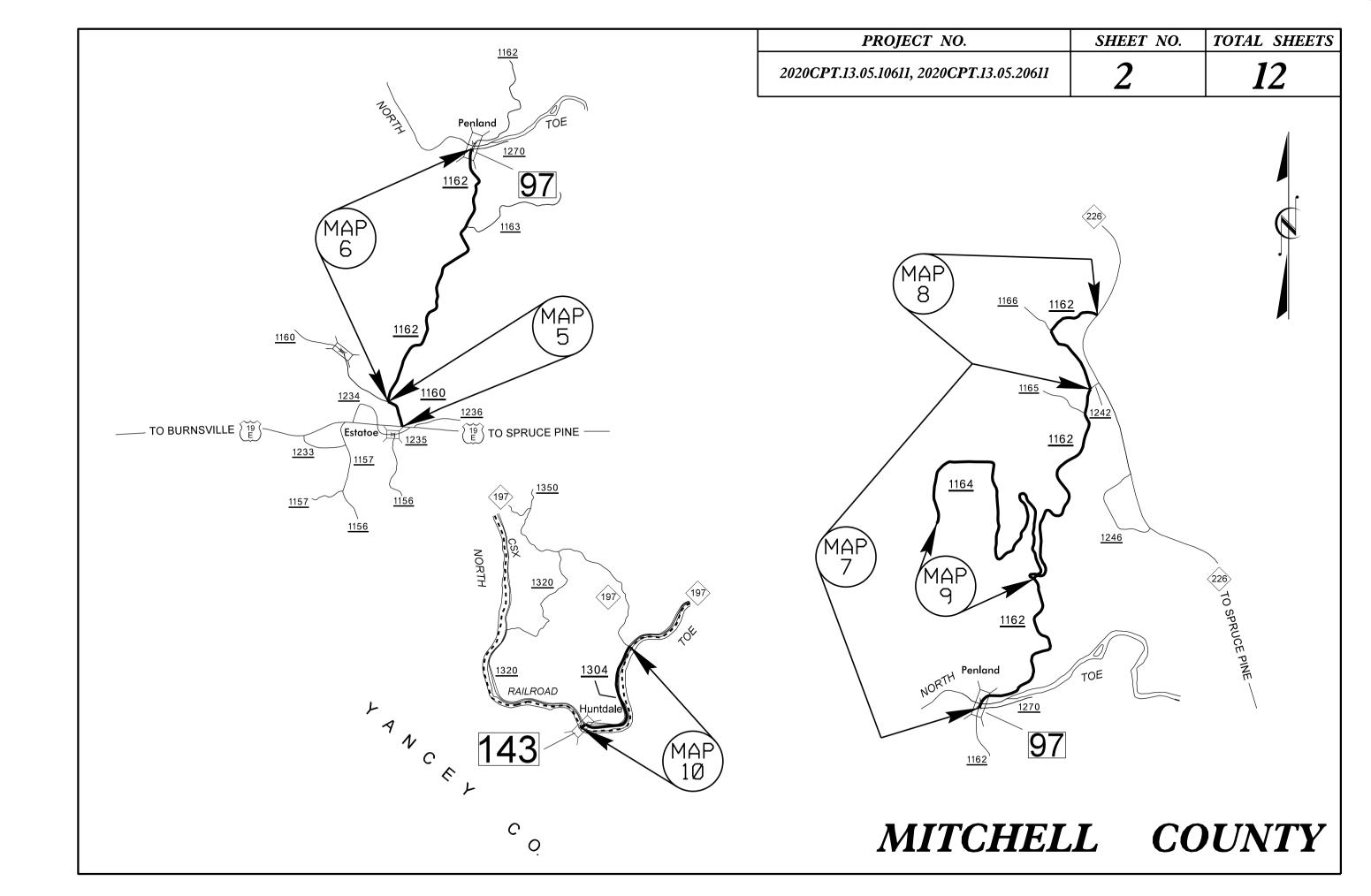
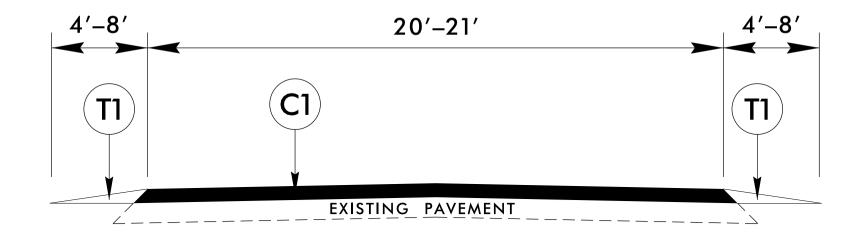
PROJECT NO.	SHEET NO.	TOTAL SHEETS
2020CPT.13.05.10611, 2020CPT.13.05.20611	1	12



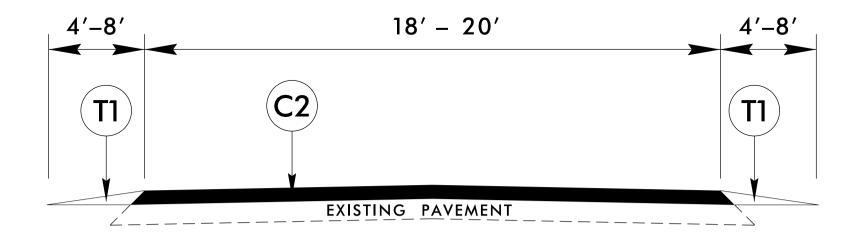


# MITCHELL COUNTY

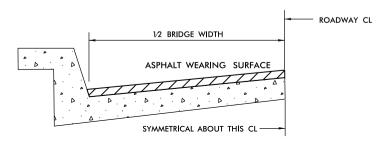




# TYPICAL SECTION #1



TYPICAL SECTION #2



#### BRIDGE HALF TYPICAL SECTION

FOR BRIDGES WITH FLOOR DRAINS, CARE SHALL BE EXERCISED IN PLACING THE WEARING SURFACE AROUND FLOOR DRAINS SO AS NOT TO HINDER EFFECTIVE DRAINAGE. ALL DRAINS SHALL BE LEFT OPEN.

#### NOTES

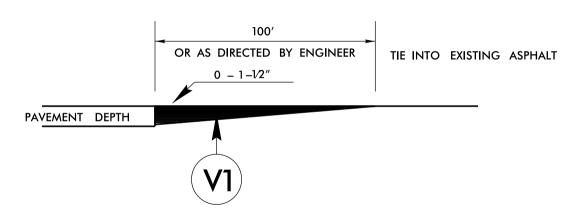
ALL UNPAVED ROADS TO BE RESURFACED 50' FROM EDGE OF PAVEMENT OF MAIN PROJECT. ALL PAVED S. R. ROADS TO BE RESURFACED TO THE ENDS OF THE RADII, OR AS DIRECTED BY THE ENGINEER.

EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE TABLE OF QUANTITIES.

SHOULDERS AND DITCHES ARE TO BE CONSTRUCTED BY OTHERS UNLESS OTHERWISE INDICATED.

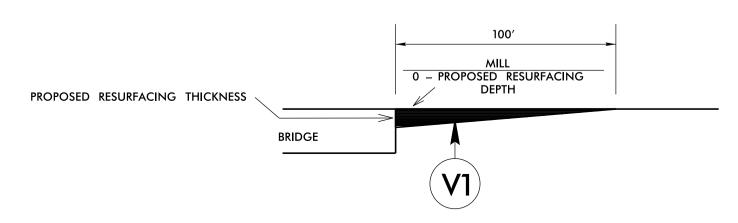
BRIDGES ARE TO BE RESURFACED AT LOCATIONS AND TO DEPTH AS DIRECTED BY THE ENGINEER.

# PAVEMENT SCHEDULE C1 PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE TYPE \$9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD. C2 PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE TYPE \$9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ.YD. T1 SHOULDER RECONSTRUCTION V1 INCIDENTAL MILLING



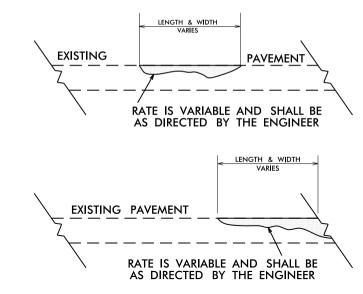
#### DETAIL TO TIE INTO EXIST PAVEMENT

THE CONTRACTOR'S ATTENTION IS DIRECTED TO
THE FACT THAT HE WILL BE REQUIRED TO MILL
THE EXISTING ASPHALT PAVEMENT TO ENSURE A PROPER
TIE-IN WITH THE EXISTING SURFACE AT THE BEGINNING, END
AND Y LINES OF EACH MAP TO BE RESURFACED WITH
ASPHALT CONC SURFACE COURSE, TYPE \$9.5C.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.

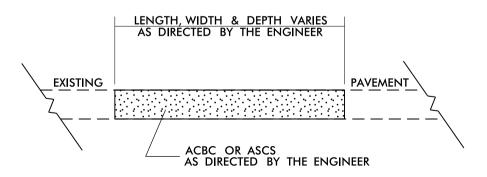


## MILLING DETAIL AT BRIDGE APPROACHES

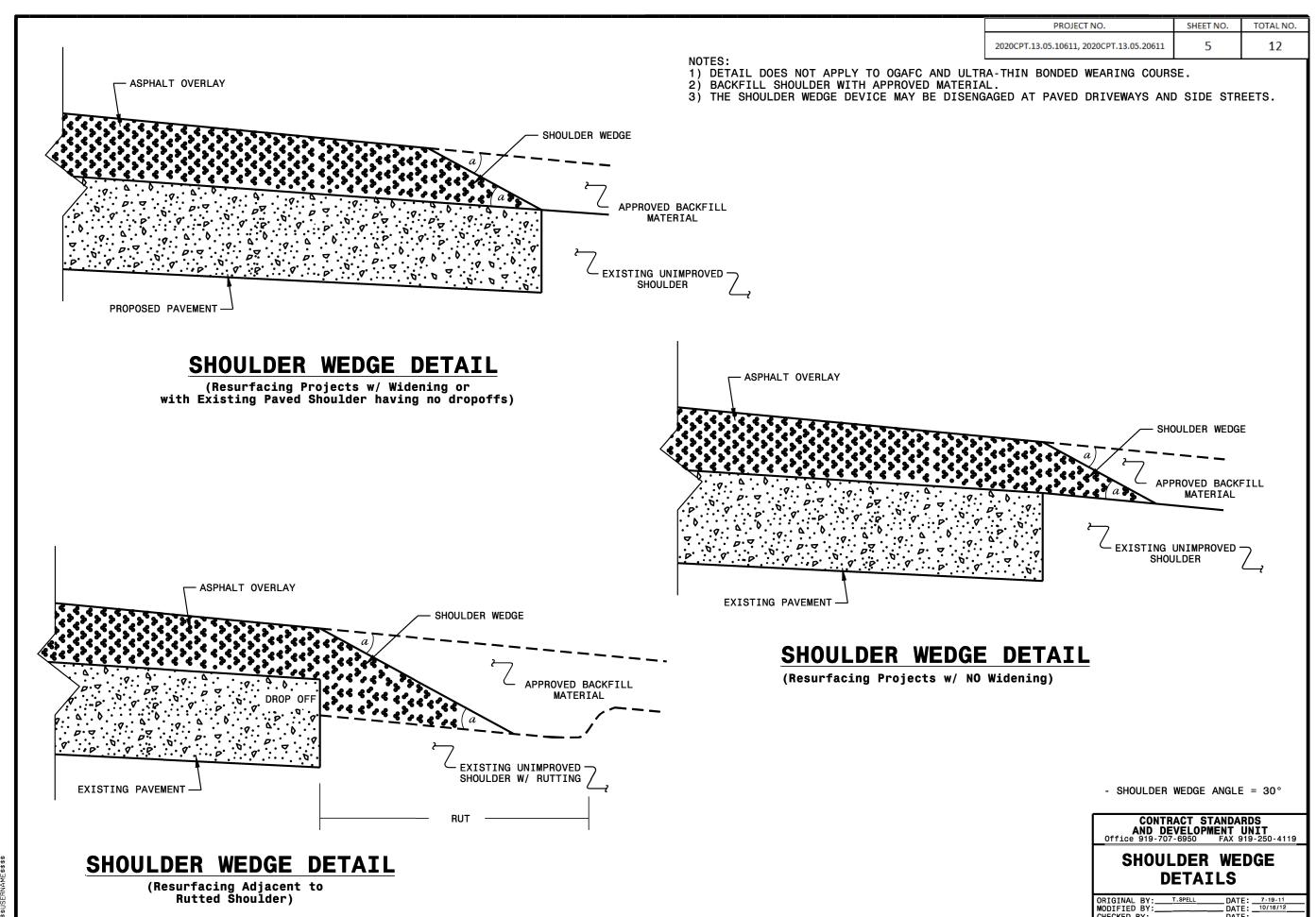
WHERE BRIDGES WILL NOT BE RESURFACED.
THIS WILL BE PAID FOR AS INCIDENTAL MILLING.
USE AT BRIDGE NUMBER: 31 MAP 1, 97 MAP 8,
AND 143 MAP 10.



# DETAIL SHOWING METHOD OF WEDGING



PATCHING EXISTING PAVEMENT



PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.05.10611		
2020CPT.13.05.20611	6	12

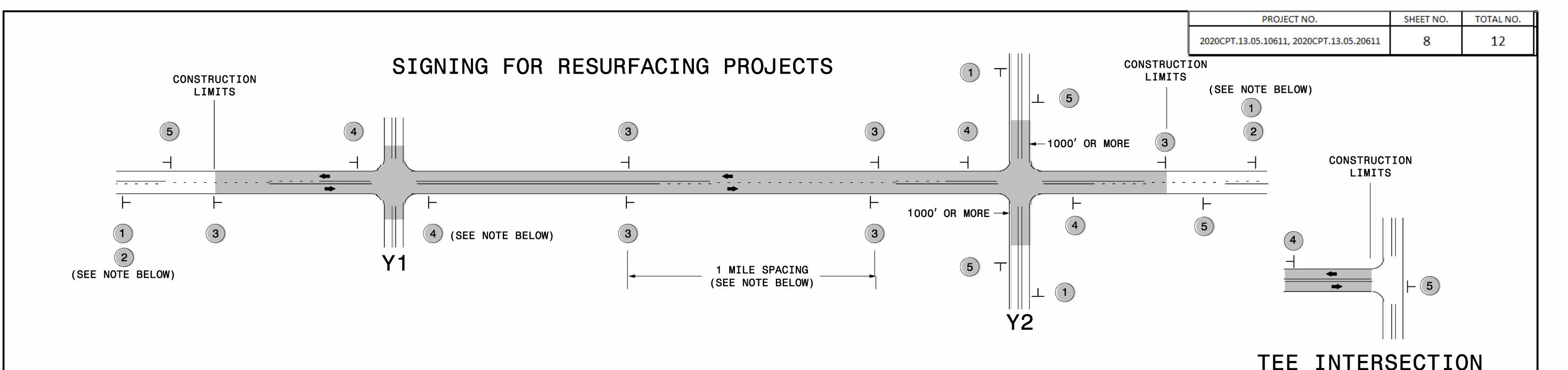
# SUMMARY OF QUANTITIES

												~								
												122000000-E	1245000000-E	126000000-E	133000000-E	1519000000-E	1523000000-E	1575000000-E	170400000-E	2800000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE	FINAL	WARM MIX	LENGTH	WIDTH	INCIDENTAL	SHOULDER	AGGREGATE	INCIDENTAL	ASPHALT CONC	ASPHALT CONC	ASPHALT	PATCHING	ADJUSTMENT
							TYPE	SURFACE	ASPHALT			STONE BASE	RECONSTRUCTION	SHOULDER	MILLING	SURFACE	SURFACE	BINDER FOR	EXISTING	OF CATCH
								TESTING	REQUIRED					BORROW		COURSE, TYPE	COURSE, TYPE	PLANT MIX	PAVEMENT	BASINS
								REQUIRED								S9.5B	S9.5C			
										MI	FT	TON	SMI	TON	SY	TON	TON	TON	TON	EA
				FROM SR 1352 TO BRIDGE #31 + 0.78 MILES																
2020CPT.13.05.10611	Mitchell	1	NC 226	(MP 28.736 - MP 29.986)	1	2	2WU	NO	NO	1.25	21	63	2.50	325	1,445		1,431	86	300	
				FROM 0.5 MI SOUTH OF SR 1159 TO SR 1346											•		,			
2020CPT.13.05.10611	Mitchell	2	NC 261	(MP 7.932 - MP 9.952)	1	2	2WU	NO	YES	2.02	20	101	4.04	525	1,000		2,204	132	825	
				FROM SR 1346 TO SR1346 +2MILES( MP 9.952 -											•		,			
2020CPT.13.05.10611	Mitchell	3	NC 261	MP 11.952)	1	2	2WU	NO	YES	2	20	100	4.00	520			2,182	131	800	
				,													,			
				FROM SR 1346 +2 MILES TO TENN. STATE LINE																
2020CPT.13.05.10611	Mitchell	4	NC 261	(MP 11.952 - MP 12.842	1	2	2WU	NO	YES	0.89	20	45	1.78	231	623		971	58	375	
TOTAL FOR PROJ	NO. 2020CP	T.13.05.10	0611	,						6.16		309	12.32	1,601	3,068		6,788	407	2,300	
														-	-		-		•	
2020CPT.13.05.20611	Mitchell	5	SR 1160	FROM US 19 TO SR 1162 (MP 0.00 - MP 0.19)	2	2	2WU	NO	NO	0.19	20	10	0.38	49		204		14	10	
2020CPT.13.05.20611	Mitchell	6	SR 1162	FROM SR 1160 TO SR 1270 (MP 0.00 - MP 1.88)	2	2	2WU	NO	NO	1.88	20	94	3.76	489	225	2,014		135	150	
2020CPT.13.05.20611	Mitchell	7	SR 1162	FROM SR 1270 TO SR 1242 (MP 1.88 - MP 3.74)	2	2	2WU	NO	NO	1.86	20	93	3.72	484	225	1,993		134	150	1
2020CPT.13.05.20611	Mitchell	8	SR 1162	FROM SR 1142 TO NC 226 (MP 3.74 - MP 4.30)	2	2	2WU	NO	NO	0.56	20	28	1.12	146		600		40	10	
				FROM SR 1162 TO END PVMT (MP 0.00 - MP																
2020CPT.13.05.20611	Mitchell	9	SR 1164	1.73)	2	2	2WU	NO	NO	1.73	18	87	3.46	450		1,669		112	160	
				FROM YANCEY COUNTY TO NC 197 (MP 0.00 -																
2020CPT.13.05.20611	Mitchell	10	SR 1304	MP 1.373)	2	2	2WU	NO	NO	1.373	20	69	2.75	357	445	1,471		99	350	
TOTAL FOR PROJ	NO. 2020CP	T.13.05.20	0611							7.593		381	15.19	1,975	895	7,951		534	830	1
GRA	AND TOTAL									13.753		690	27.51	3,576	3,963	7,951	6,788	941	3,130	1

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.05.10611	7	12
2020CPT.13.05.20611	,	12

# THERMOPLASTIC AND PAINT QUANTITIES

										4413000000-E	4457000000-N	4705000000-E	4710000000-E	472100	00000-E	481000	0000-E	484701	.0000-E	4905000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE	LENGTH	WIDTH		TEMPORARY	THERMOPLASTIC	THERMOPLASTIC			PAINT	PAINT	POLYUREA	POLYUREA	SNOWPLOWABLE
							TYPE			ADVANCE/GENERAL	TRAFFIC	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT	PAVEMENT
										WARNING SIGNING	CONTROL	MARKING LINES	MARKING LINES	MARKING	MARKING	MARKING	MARKING	MARKING	MARKING	MARKERS
												(16", 120 MILS)	(24", 120 MILS)	CHARACTER (120	CHARACTER (120	LINES (4")	LINES (4")	LINES WHITE	LINES YELLOW	
												WHITE	WHITE	MILS) RXR	MILS) SCHOOL	WHITE	YELLOW	(4", 20 MILS)	(4", 20 MILS)	
																		(HIGHLY	(HIGHLY	
																		REFLECTIVE	REFLECTIVE	
																		MEDIA)	MEDIA)	
								МІ	FT	SF	LS	LF	LF	EA	EA	LF	LF	LF	LF	EA
				FROM SR 1352 TO BRIDGE #31 + 0.78 MILES (MP				IVII	FI	SF.	LS	LF	LF	EA	EA	LF	LF	LF	LF	EA
2020CPT.13.05.10611	Mitchell	1	NC 226	28.736 - MP 29.986)	1	2	2WU	1.25	21									13,200	13,200	110
				FROM 0.5 MI SOUTH OF SR 1159 TO SR 1346 (MP						1								,	-,	-
2020CPT.13.05.10611	Mitchell	2	NC 261	7.932 - MP 9.952)	1	2	2WU	2.02	20	691	*							21,331	21,331	180
				FROM SR 1346 TO SR1346 +2MILES( MP 9.952 -						091										
2020CPT.13.05.10611	Mitchell	3	NC 261	MP 11.952)	1	2	2WU	2	20									21,120	21,120	175
				FROM SR 1346 +2 MILES TO TENN. STATE LINE																
2020CPT.13.05.10611	Mitchell	4	NC 261	(MP 11.952 - MP 12.842	1	2	2WU		20									9,398	9,398	80
TOTAL FOR PROJ N	NO. 2020CP1	г.13.05.10	611					6.16		691	*							65,049	65,049	545
														ļ				130	,098	
2020507.42.05.20544		_	CD 44 CO	50004 US 40 TO 50 4452 (MAD 0 00 MAD 0 40)			20441	0.40	20	I	1 1		F		1	4.042	4.043	T		1
2020CPT.13.05.20611	Mitchell	5	SR 1160	FROM US 19 TO SR 1162 (MP 0.00 - MP 0.19)	2	2	2WU	0.19	20							4,013	4,013			
2020CPT.13.05.20611	Mitchell	6	SR 1162	FROM SR 1160 TO SR 1270 (MP 0.00 - MP 1.88)	2	2	2WU	1.88	20							39,706	39,706			
2020CF1.13.03.20011	WITCHEI	0	3N 1102	TROW 3K 1100 TO 3K 1270 (IVIF 0.00 - IVIF 1.88)			2000	1.00	20							33,700	33,700			
2020CPT.13.05.20611	Mitchell	7	SR 1162	FROM SR 1270 TO SR 1242 (MP 1.88 - MP 3.74)	2	2	2WU	1.86	20			88	60	4		39,283	39,283			
		-								853	*					,	,			
2020CPT.13.05.20611	Mitchell	8	SR 1162	FROM SR 1142 TO NC 226 (MP 3.74 - MP 4.30)	2	2	2WU	0.56	20							11,827	11,827			
2020CPT.13.05.20611	Mitchell	9	SR 1164	FROM SR 1162 TO END PVMT (MP 0.00 - MP 1.73)	2	2	2WU	1.73	18				40		12	36,538	36,538			
				FROM YANCEY COUNTY TO NC 197 (MP 0.00 - MP																
2020CPT.13.05.20611	Mitchell	10	SR 1304	1.373)	2	2	2WU	1.373	20							28,998	28,998			
TOTAL FOR PROJ N	NO. 2020CP1	.13.05.20	611					7.593	ļ	853	*	88	100	4	12	160,365	160,365			
							<u> </u>		<u> </u>					1 1	16	320	,730			
	AND TOTAL							13.753		1,544	1	88	100	4	12	160,365	160,365	65,049	65,049	545
GRA	AND TOTAL													1	16	320	,730	130	008	



# **LEGEND**

NDCT

A RE

SH

NO ER

IGNING

S

├ STATIONARY SIGN **←** DIRECTION OF TRAFFIC FLOW

# MAINLINE (-L-) SIGNING

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 RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH. ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)

LOW/SOFT SHOULDER SP 13107 48" X 48"

**(5)** 

ROAD

**UNDER** 

ROAD WORK

G20-2 A 48" X 24"

ROAD

WORK

AHEAD W20-1 48" X 48"

NEXT W7-3aP 24" X 18"

- PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER.
- AT TEE INTERSECTIONS INSTALL INITIALLY 0.5 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.
- 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 ALONG -L- LINE.

END

PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS OR AS SHOWN WHEN WORK ENDS AT A 3-WAY TEE INTERSECTION.

# -Y- LINE SIGNING

# 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

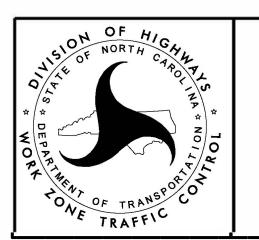
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, ADVANCE WARNING PORTABLE SIGNS SHALL BE USED ALONG THE

-Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.





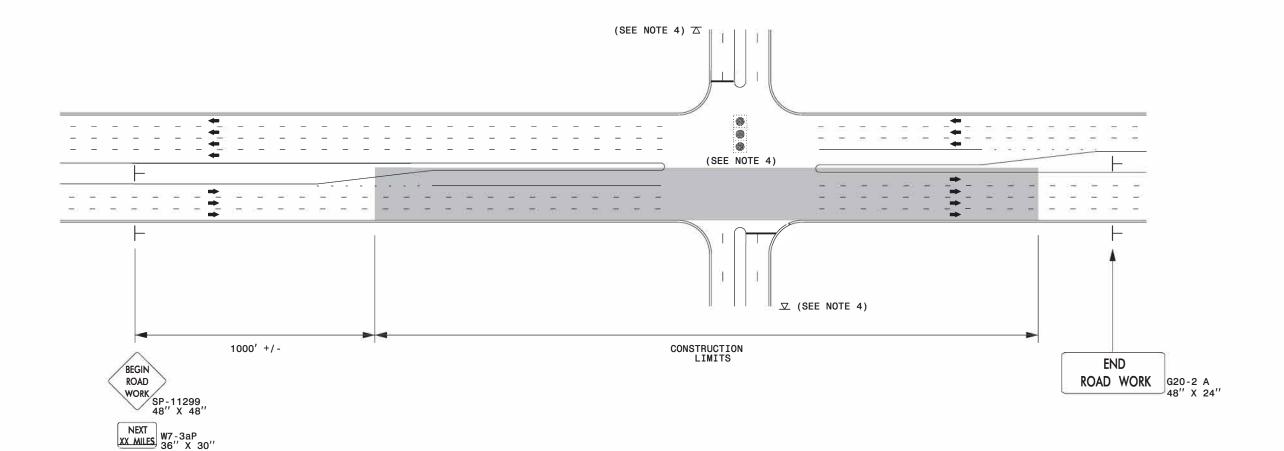
PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.



RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2 LANE ROADWAYS

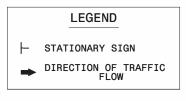
PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.05.10611, 2020CPT.13.05.20611	9	12

## URBAN / SUBURBAN WORKZONES



#### NOTES:

- 1) 48" x 48" SIZED SIGNS (SP- 11299) MAY BE REDUCED TO 36" X 36" ON ROADWAYS WITH SPEED LIMITS OF 40 MPH OR LESS.
- 2) MOUNT SIGNS THAT ARE LARGER THAN 10 SQUARE FEET IN AREA ON TWO OR MORE WOOD OR U-CHANNEL SUPPORTS. PERFORATED SQUARE TUBING SUPPORT SYSTEMS MAY SUPPORT LARGER AREAS ON A SINGLE SUPPORT. FOLLOW MANUFACTURER'S RECOMMENDATIONS. THESE SYSTEMS SHALL BE NCHRP 350 COMPLIANT AND NCDOT APPROVED.
- 3) ADVANCE WARNING SIGNS NOT REQUIRED ON NON-SIGNALIZED SIDE STREETS.
- 4) MAY USE LAW ENFORCEMENT TO CONTROL TRAFFIC AT SIGNALIZED INTERSECTIONS AS DIRECTED BY THE ENGINEER. PROVIDE PORTABLE "ROAD WORK AHEAD" (W20-1) SIGNS 500' IN ADVANCE ALONG BOTH APPROACHES FROM THE SIDE STREETS WHEN PAVING PROCEEDS THROUGH THE INTERSECTION.
- 5) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 2' AS MEASURED FROM THE EDGE OF PAVEMENT OR THE FACE OF THE CURB. WHEN UNABLE TO OBTAIN THE LATERAL CLEARANCE WITHIN THE MEDIAN AREA USE SHOULDER MOUNTS ONLY.
- 6) SIGN MOUNT LOCATIONS SHALL NOT BLOCK SIDEWALKS OR DRIVEWAYS.
- 7) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 8) IF MILLED AREAS ARE NOT PAVED BACK BY THE END OF THE WORK DAY, PORTABLE SIGNS SHALL BE USED TO WARN DRIVERS OF THE PRESENT CONDITIONS. THESE ARE TO INCLUDE, BUT NOT LIMITED TO "ROUGH ROAD" W8-8, "UNEVEN LANES" W8-11, "GROOVED PAVEMENT" W8-15 w/MOTORCYCLE PLAQUE MOUNTED BELOW. THESE ARE TO BE DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER WHERE LATERAL CLEARANCE CAN BE OBTAINED WITHIN THE MEDIAN AREAS.THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.





RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

BACKG COLOR: Fluorescent Orange SIGN NUMBER: 11299 COPY COLOR: TYPE: В **QUANTITY: SEE PLANS** 

**Black** 

SYMBOL	Х	Y	WID	нт
	ĺ			

MAT'L: 0.125" (3.2 mm) ALUMINUM

NO. Z BARS: N/A LENGTH: N/A

SIGN WIDTH: 5'-6"

TOTAL AREA: 30.5 Sq.Ft.

**BORDER TYPE: INSET** 

**HEIGHT:** 5'-6"

**RECESS: 0.59**"

WIDTH: 0.75" RADII: 1.38"

USE NOTES: 1,2

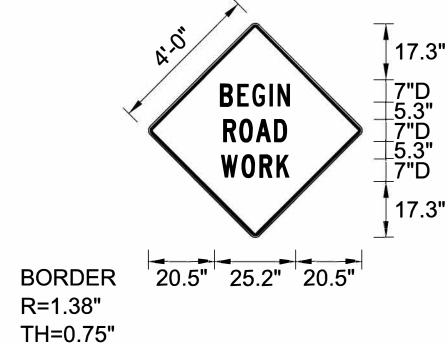
- 1. Legend and border shall be direct applied black non-reflective sheeting.
- 2. Background shall be Type VII, VIII, or IX (prismatic) fluorescent orange retroreflective sheeting.

DESIGN BY: WJ CHECKED BY: DIV: ALL PROJECT ID: ALL

SP 11299

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.13.05.10611, 2020CPT.13.05.20611	10	12

DATE: Jun 22, 2011



IN=0.59"

Spacing Factor is 1 unless specified otherwise

#### LETTER POSITIONS

								311	Lett	ter	spac	ings	s ar	e to	sta	art	of	next	letter				Series/Size Text Length
		В	E	G	I	N																	D 2000
	20.5	6	5.4	6.3	2.8	4.8	20.5																25.2
		R	0	Α	D																		D 2000
	21.4	5.8	5.9	7	4.8	21.4																	23.5
		w	0	R	K																		D 2000
	20.9	7.1	6.5	5.9	4.9	20.9																	24.5
-1								): 2:						i .									2

FILENAME: SP11299.PDF

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: SP13106 BACKG COLOR: Fluorescent Orange COPY COLOR: Black TYPE: STATIONARY QUANTITY: SEE PLANS SYMBOL X WID HT SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.00 Sq.Ft. **BORDER TYPE: INSET RECESS: 0.75"** WIDTH: 1.25" RADII: 3"

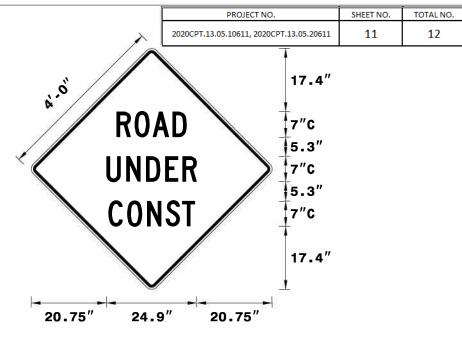
NO. Z BARS: LENGTH: MAT'L: 0.080" (2.0 mm) ALUMINUM

USE NOTES: 1,2

1. Legend and border shall be direct applied black non-reflective sheeting.

2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

DESIGN BY: B. RASHID CHECKED BY: AIA DATE: Apr 26, 2013
PROJECT ID: DIV:



Spacing Factor is 1 unless specified otherwise

#### LETTER POSITIONS

								Let	ter	spac	ing	ar	e to	sta	art	of n	ext	let	ter				Series/S Text Len
	R	0	Α	D			T															T'	C 200
23.5	5	5	5.5	3.9	23.5											-		-					19.3
	U	N	D	E	R																		C 200
20.7	5.5	5.5	5.3	4.8	3.9	20.7																	24.9
	С	0	N	S	Т																		C 200
21.2	5.2	5.5	5.1	4.6	3.6	21.2														N			23.9
																						V:	
									-														
							1																

SIGN NUMBER: SP13107 BACKG COLOR: Fluorescent Orange COPY COLOR: Black TYPE: STATIONARY QUANTITY: SEE PLANS SYMBOL WID HT SIGN WIDTH: 4'-0" HEIGHT: 4'-0" TOTAL AREA: 16.00 Sq.Ft. **BORDER TYPE: INSET RECESS: 0.75"** WIDTH: 1.25" RADII: 3" MAT'L: 0.080" (2.0 mm) ALUMINUM

NO. Z BARS: LENGTH:

USE NOTES: 1,2

- 1. Legend and border shall be direct applied black non-reflective sheeting.
- 2. Background shall be NC GRADE B fluoresent orange retroreflective sheeting.

CHECKED BY: AIA DATE: Apr 26, 2013 DIV: PROJECT ID: PROJECT NO. SHEET NO. TOTAL NO. 2020CPT.13.05.10611, 2020CPT.13.05.20611 12 12 24.9" LOW/SOFT SHOULDER 6"D 6"D 24.9"

40,4"

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

								Let	ter	spacin	gs aı	e to	st	art (	of ne	ext	lett	er						Series/S Text Ler
	L	0	W	1	S	0	F	Т																D 200
13.2	4.5	5	5.5	6.5	5	5.6	4.1	3.7	13.2															39.9
	S	Н	0	U	L	D	E	R					ĺ											D 200
13	5.1	5.4	5.6	5.5	4.6	5.4	4.7	4.1	13									-						40.4
													i											
		2										1			1									
												Ì	İ						1					
-									+			+	-		_	-		-	-	-	-	-		

DESIGN BY: B. RASHID