PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.11.07.10951	1	2
2020CPT 11 07 20951		

SUMMARY OF QUANTITIES

													0106000000-E	1220000000 E	1245000000-E	1297000000-E	1308000000-E	1330000000 E	1519000000-	1520000000-E	1575000000- E	1704000000-E	2815000000-N	2830000000 N	2845000000	7288000000-E	7300000000-E	7324000000-N	7444000000-E	7456000000-E	6084000000-
									TIP NO	LINES LANE	LENGTH	WIDTH	BORROW	INCIDENTAL	SHOULDER	1.5" MILLING	0-1%" MILLING	INCIDENTAL	SURFACE	LEVELING	ASPHALT	PATCHING	ADJ. OF DROP	ADJ. OF	ADJ. OF	PAVED	UNPAVED	JUNCTION BOX	INDUCTIVE LOOP	LEAD-IN	SEED &
Project No.	County	Мар	Route	Route Name	From Description	To Description	Milegost From	Milepost To		TYPE				STONE BASE	RECONSTRUCTION			MILLING	COURSE,	COURSE	BINDER FOR	EXISTING	INLET	M ANHOLES	M ET ER OR	TRENCHING	TRENCHING (******)	(STANDARD		CABLE	MULCHING
,	,	No.																	\$9.5B		PLANT MIX	PAVEMENT			VALVE BOX	(*******) LF	LF	SIZE) EA			
											MI	FT	CY	TONS	SMI	SY	SY	SY	TONS	TONS	TONS	TONS	EA	EA	EA	LF	LF	EA	LF	LF	AC
2020CPT.11.07.1	Watauga	a 1A	US 321	KING STREET	US 321 /Hardin Street	SR 1180	9.19	10.17	1	2 2WI	0.98	45				25,872		750	2,348		157		1	5	5	100	100	1	700	100	
2020CPT.11.07.1	Watauga	a 1B	US 321	US 321	SR 1180	SR 1381	10.17	10.95	1	2 2WI	0.78	28	156	16	1.56		300	675	1,163		78	116		5	5						0.57
2020CPT.11.07.1	Watauga	a 2	US 421	US 421	US 321	SR 1420	19.81	25.04	2	2 2WI	5.23	32	1,046	105	10.46		500	1,000	8,910		597	891									3.80
тог	TAL FOR PRO	OJECT NO. 2	020CPT.11.07.1	10951							6.99		1,202	120	12.02	25,872	800	2,425	12,421	0	832	1,007	1	10	10	100	100	1	700	100	4.37
<u></u>					-	-	-	-			-	_																			
2020CPT.11.07.2 951	Watauga	a 3	SR 1508	Elk Creek Rd	SR 1672	SR 1510	0.01	2.74	3	2 2WI	2.73	18	546	55	5.46			200	2616	793	228										1.99
тог	TAL FOR PRO	OJECT NO. 2	020CPT.11.07.2	20951							2.73		546	55	5.46	0	0	200	2,616	793	228	0	0	0	0	0	0	0	0	0	1.99
		GRAND TO	DTAL								9.72		1,748	175	17.48	25,872	800	2,625	15,037	793	1,061	1,007	1	10	10	100	100	1	700	100	6.36

For mileposting information, please visit ncdot.maps.arcgis.com, then select NCDOT Distance Hatches & Structures Map

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.11.07.10951	2	2
2020CPT.11.07.20951		

THERMOPLASTIC AND PAINT QUANTITIES

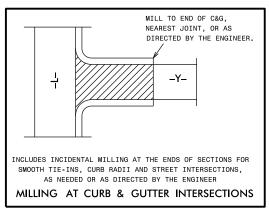
THERMOTERSTIC AND TAINT QUANTITIES																									
											4413000000-E	4457000000-N 4510000000-N 5255000000-N			481000	0000-E	48200	00000-E	4835000000-E	48450000	00-N	4905000000-N			
Project No.	County	Map No.	Route	Route Name	From Description	To Description	Milepost From	Milepost To	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	LAW ENFORCEMENT	PORTABLE LIGHTING	4" WHITE PAINT	4" YELLOW PAINT	8" WHITE PAINT	8" YELLOW PAINT	24" WHITE PAINT	PAINT STR ARROW	PAINT LT ARROW	SNOW PLOWABLE MARKERS
												мі	FT	SF	LS	HR	LS	LF	LF	LF	LF	LF	EA	EA	EA
2020CPT.11.07.10951	Watauga	1A	US 321	KING STREET	US 321 /Hardin Street	SR 1180	9.19	10.17	1	2	2WU	0.98	45	214	1	500	1	20,698	20,698	2,000	1,000	600	8	12	65
2020CPT.11.07.10951	Watauga	1B	US 321	US 321	SR 1180	SR 1381	10.17	10.95	1.	2	2WU	0.78	28	64				16,474	16,474	100		24			51
2020CPT.11.07.10951	Watauga	2	US 421	US 421	US 321	SR 1420	19.81	25.04	2	2	2WU	5.23	32	430				110,458	110,458		800		18	2	345
	TOTAL	FOR PROJECT NO. 202	OCPT.11.07.10951									6.99		708	1	500	1	147,629	147,629	2,100	1,800	624	26	14	461
																		295,	258	3	,900		40		
2020CPT.11.07.20951	Watauga	3	SR 1508	Elk Creek Rd	SR 1672	SR 1510	0.01	2.74	3	2	2WU	2.73	18	246				57,658	57,658						
	TOTAL	FOR PROJECT NO. 202	OCPT.11.07.20951									2.73		246	o	0	0	57,658	57,658	o	ō	0	0	0	0
											115,	315				0									
		GRAND TO	OTAL									9.72		954	1	500	1	205,286	205,286	2,100	1,800	624	26	14	461
																		410,	573	3	,900		40		

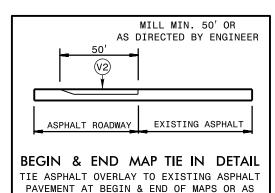
 $For \ mile posting \ information, please \ visit \ ncdot maps. arcgis.com, then \ select \ NCDOT \ Distance \ Hatches \ \& \ Structures \ Maps \ Apple \ Appl$

* "PATCHING EXISTING PAVEMENT" AND LEVELING HAVE BOTH BEEN INCLUDED AS A PAY ITEM ON MAPS. PATCHING MAY OR MAY NOT BE NEEDED DEPENDING ON CONDITION OF MAP SURFACE AT TIME THAT PAVING SEASON BEGINS. AREAS TO BE DELINIATED BY THE ENGINEER.

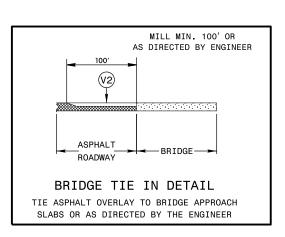
* INCIDENTAL MILLING AT LOCATIONS AS DIRECTED BY THE ENGINEER

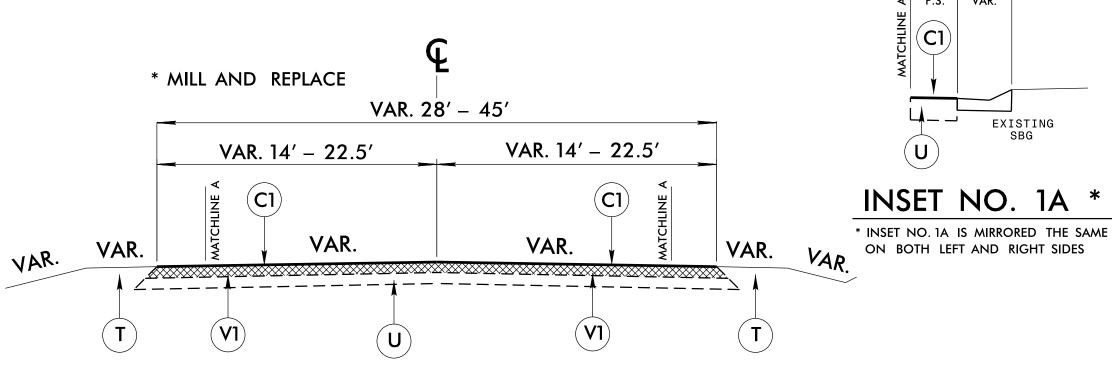
	PAVEMENT SCHEDULE
C1	PROP. APPROX. $11\!\!2^{\prime\prime}$ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
Т	SHOULDER RECONSTRUCTION
C	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF $11\!\!\!/_2$ $''$
V2	INCIDENTAL MILLING (See Tie in Detail)





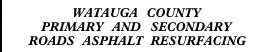
DIRECTED BY THE ENGINEER





TYPICAL SECTION NO. 1

MAP 1A - US 321 FROM US 321 /HARDIN ST. TO SR 1180 MAP 1B - US 321 FROM SR 1180 TO SR 1381



			ł
REVISIONS	INIT.	DATE	
		11	
			SCALE
			PREP#

N.C. DEPARTMENT of TRANSPORTATION

DIVISION of HIGHWAYS

DIVISION ELEVEN



SHEET NO.

DK00273

PREPARED BY: D. NANCE
REVIEWED BY:
REVIEWED BY:

03-N0V-2020 |3:58 R:\2020_Resurfacing Maps\Wa

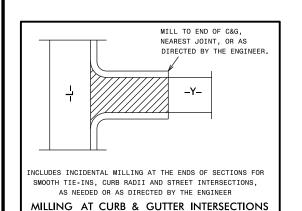
EXISTING PAVEMENT

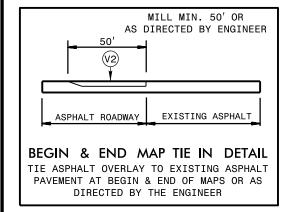
MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 11/2"

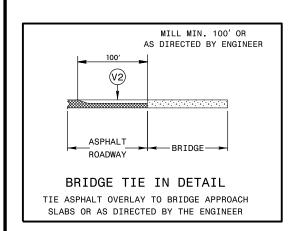
N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
DIVISION ELEVEN

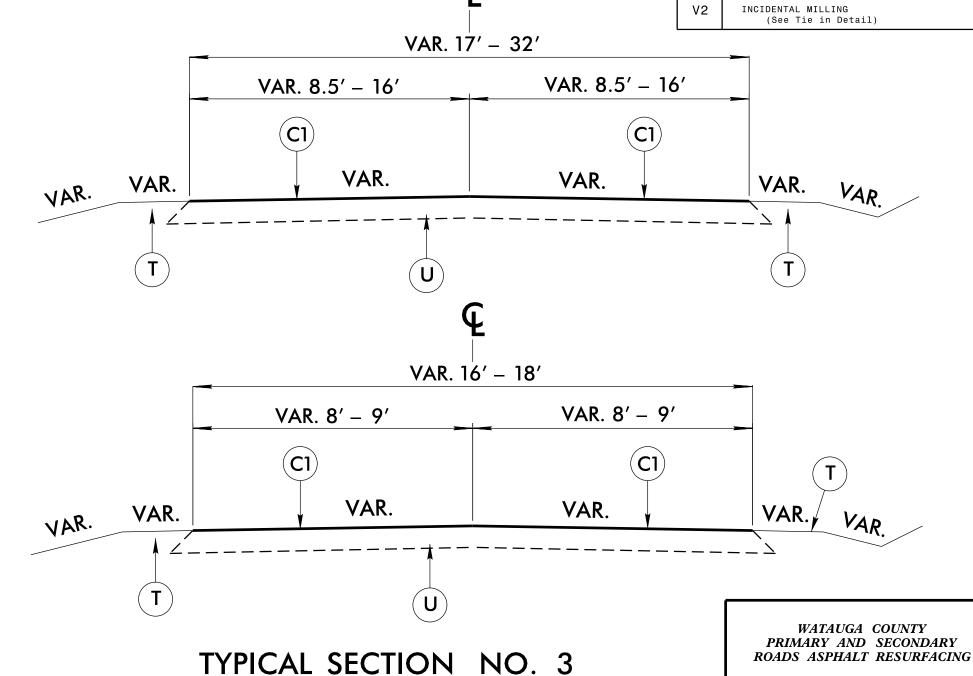
SCALE: N/A DATE: 02/2020

MAP 2 - US 421 FROM US 321 TO SR 1420





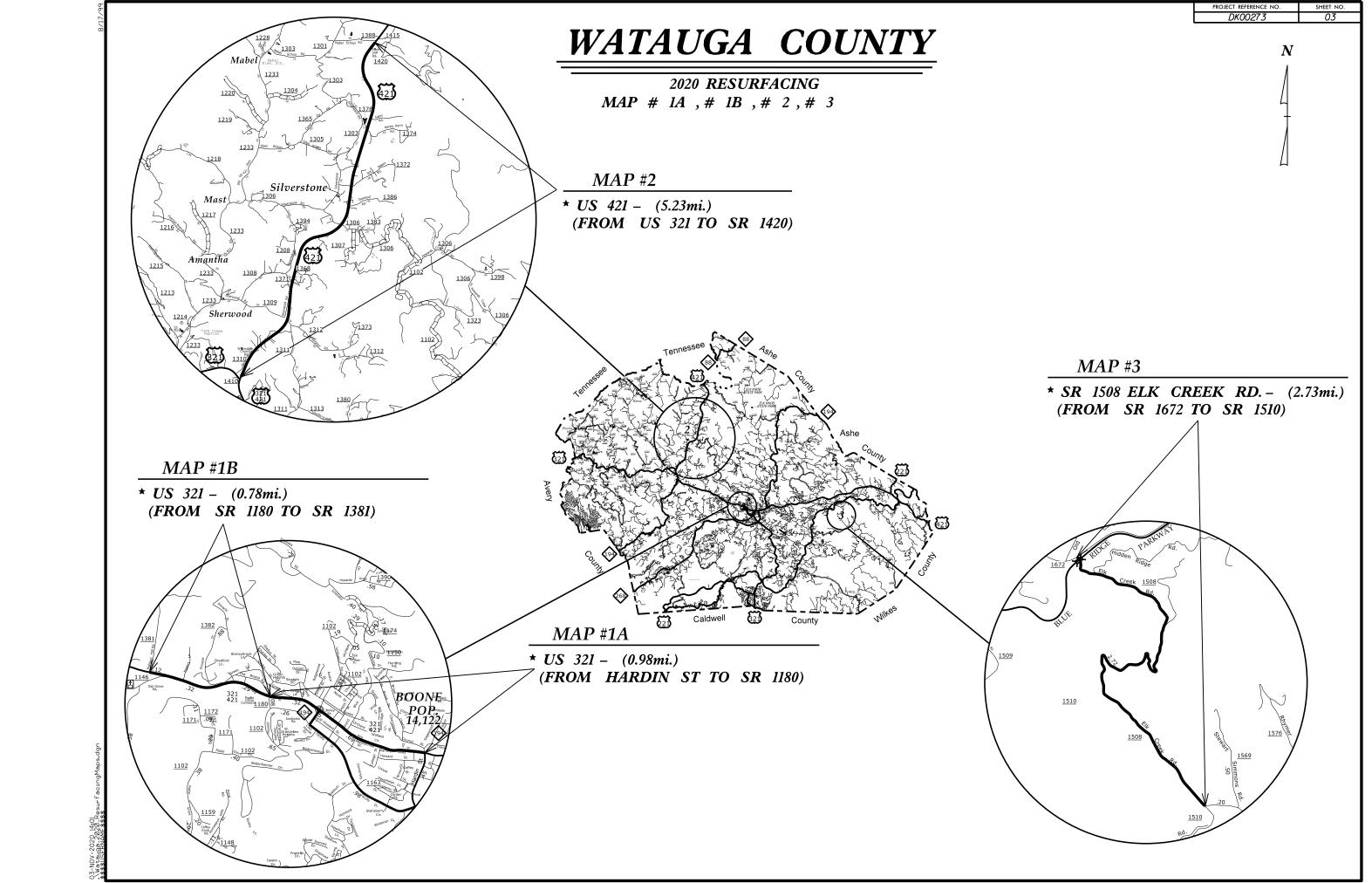




SR 1508 FROM SR 1672 TO SR 1510

MAP 3

03-N0V-2020 13:54 .\Watauga_2020_resurfacing_t



PROJ. REFERENCE NO.

SIGNING FOR RESURFACING PROJECTS



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SH

NO ER

IGNIN

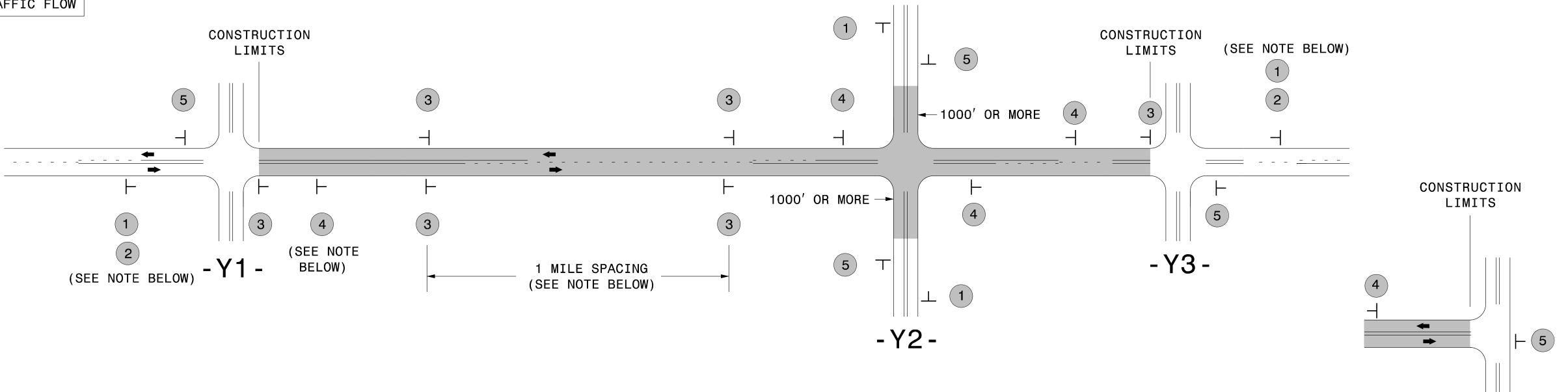
SO

5

 \Box

 \triangleleft

← DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION -Y- LINE SIGNING

MAINLINE (-L-) SIGNING

ROAD ` WORK NOI AHEAD W20-1 48" X 48" ZO

PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

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
- 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 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.

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

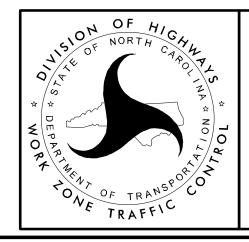
WHEN PAVING/CONSTRUCTION ACTIVITIES PROCEED ACROSS AN UNSIGNED -Y- LINE, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.



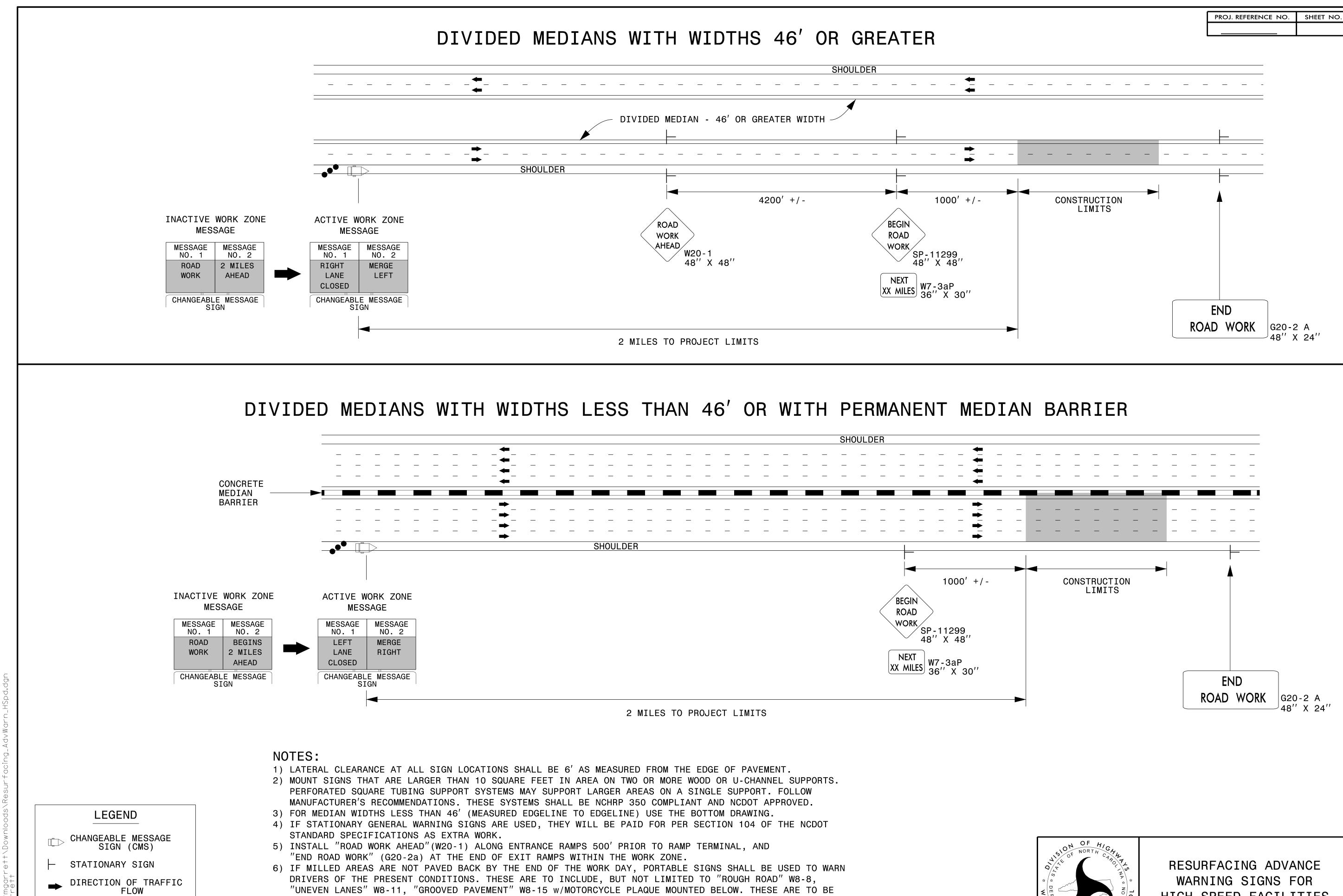
PLACED 500' IN ADVANCE OF FLAGGER.



PLACED 250' IN ADVANCE OF FLAGGER.



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



DOUBLE INDICATED ON MULTI-LANE ROADWAYS WITH SPEED LIMITS 45 MPH AND GREATER AND WITH DIVIDED MEDIANS

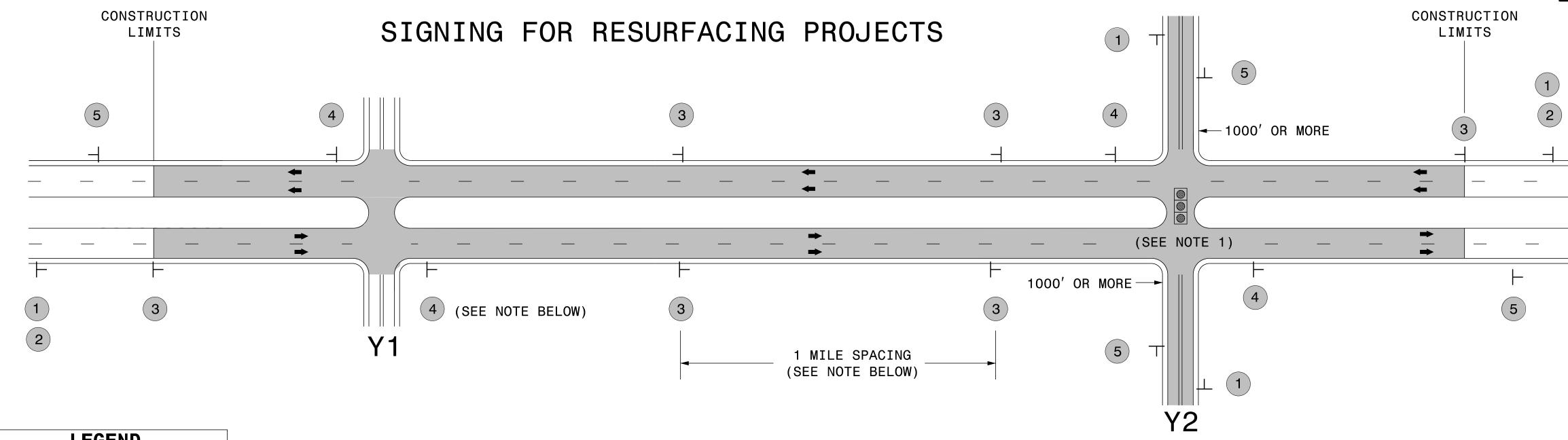
OF 46' OR GREATER. THESE PORTABLE SIGNS ARE INCIDENTAL TO THE OTHER ITEMS OF WORK INCLUDED IN THE

TEMPORARY TRAFFIC CONTROL (LUMP SUM) PAY ITEM.

TRAFFIC DRUM

HIGH SPEED FACILITIES ≥ 60 MPH

PROJ. REFERENCE NO. SHEET NO.



<u>LEGEND</u> ├ STATIONARY SIGN

NO ER

IGNING

SO

← DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

ROAD WORK AHEAD W20-1 48" X 48 2 NEXT W7-3aP 24" X 18"

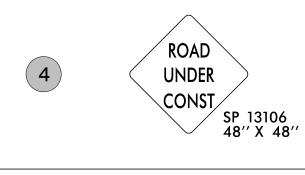
PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.

W7-3aP #2 SIGN ONLY USED WHEN RESURFACING LIMITS ARE 2 OR MORE MILES IN LENGTH.

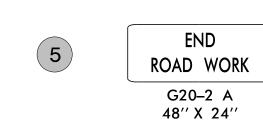
EXX MILES 24" X 18" ROUND UP TO NEXT WHOLE NUMBER. (NO FRACTIONAL OR DECIMAL NUMBERS)

SP 13107 48" X 48"

PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACED 1 MILE APART THEREAFTER. IF NO -Y- LINES EXIST, PLACE 2ND SET ½ MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE 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 SP 13106 48" X 48" INSTALL WHEN -Y- LINES ARE WITHIN 0.5 MILES FROM "END ROAD WORK" SIGN.



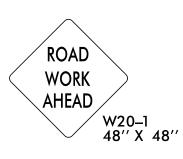
PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.

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.

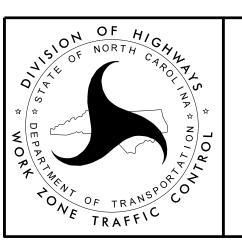




PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.

NOTES:

1) 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.

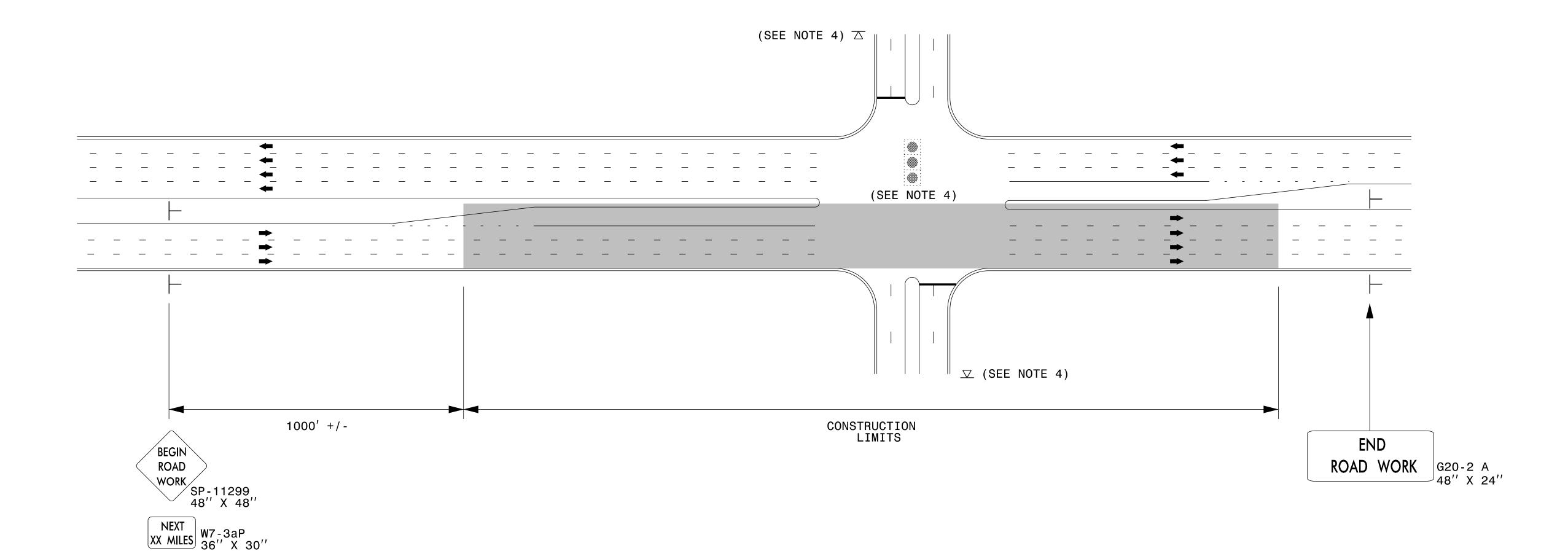


RESURFACING
ADVANCE WARNING SIGNS
FOR RURAL AND SUBURBAN
MULTI-LANE ROADWAYS
W/ SHOULDER SECTIONS

Jarrett/Vownloads/Kesurtacing_AdvWarn_Ursu_snidr。dgn stt

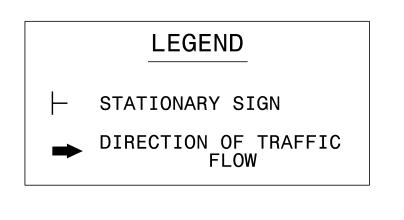
PROJ. REFERENCE NO. SHEET NO.

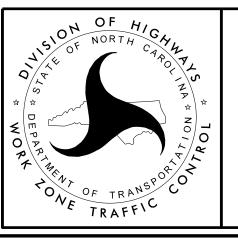
URBAN / SUBURBAN WORKZONES



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

SALIMBATT GITADOMINOAGSANGATTACHIGIBAAYWALITOTSA (Z).AGIT ngarrett

