

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.11.08.10051	1	2
2020CPT.11.09.20051		

**SUMMARY OF QUANTITIES**

Project No.	County	Map No.	Route	Route Name	From Description	To Description	Mile Post From	Mile Post To	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	0106000000-E	1220000000-E	1245000000-E	1308000000-E	1330000000-E	1519000000-E	1520000000-E	1575000000-E	1704000000-E	6084000000-E										
														BORROW	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	0-1 1/2" MILLING	INCIDENTAL MILLING	SURFACE COURSE, SR.5B	LEVELING COURSE, SR.5B	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT	SEED & MULCHING										
														MI	FT	CY	TONS	SMI	SY	SY	TONS	TONS	TONS	TONS	AC								
2020CPT.11.08.10051	Ashe	1A	NC 16	NC 16	Bridge #30 Over SR 1573	Bridge #42 over Helton Creek	16.54	19.93		2	2WU	3.39	22	678	68	6.78	2,000	1,500	4,115		276	412	2.47										
2020CPT.11.08.10051	Ashe	1B	NC 16	NC 16	Bridge #42 over Helton Creek	VA State Line	19.97	23.53		2	2WU	3.56	22	712	72	7.12	2,880	500	4,321		290	432	2.59										
<b>TOTAL FOR PROJECT NO. 2020CPT.11.08.10051</b>																																	
														6.95		1,390	140	13.90	4,880	2,000	8,436	0	565	844	5.05								

2020CPT.11.09.20051	Ashe	2	SR 1573	Old Hwy 16	SR 1538	SR 1551	11.70	14.26		2	2WU	2.56	16					250	2,220	661	193											
2020CPT.11.09.20051	Ashe	3	SR 1545	Red Hill Rd	BEGIN PAVEMENT	VA State Line	0.00	0.78		2	2WU	0.78	18					250	761	227	66											
2020CPT.11.09.20051	Ashe	4	SR 1351	Campbell Rd	BEGIN PAVEMENT	NC 194	0.84	2.04		2	2WU	1.20	18					400	1,171	348	102											
2020CPT.11.09.20051	Ashe	5	SR 1121	Peak Rd	Bridge # 0187 on SR 1100	SR 1122	0.00	1.16		2	2WU	1.16	18					100	1,132	337	98											
2020CPT.11.09.20051	Ashe	6	SR 1122	Muddy Branch Rd	SR 1121	NC 88	0.00	1.24		2	2WU	1.24	18					100	1,210	360	105											
2020CPT.11.09.20051	Ashe	7	SR 1140	Golf Course Rd	SR 1138	SR 1248	0.00	1.54		2	2WU	1.54	18					100	1,503	447	131											
2020CPT.11.09.20051	Ashe	8	SR 1147	Nettle Knob Rd	NC 163	SR 1181	0.00	1.55		2	2WU	1.55	18			600	200	1,512	450	131												
2020CPT.11.09.20051	Ashe	9	SR 1177	Water Tank Rd	US 221 Project Limits	SR 1181	0.00	3.34		2	2WU	3.34	20					225	3,621	1,078	315											
2020CPT.11.09.20051	Ashe	10A	SR 1003	Idlewild Rd	SR 1183	SR 1166	2.07	3.39		2	2WU	1.32	20					110	1,431		96											
2020CPT.11.09.20051	Ashe	10B	SR 1003	Idlewild Rd	SR 1166	SR 1168	3.40	3.82		2	2WU	0.42	18					100	410		27											
2020CPT.11.09.20051	Ashe	10C	SR 1003	Idlewild Rd	SR 1168	SR 1172	3.82	5.49		2	2WU	1.67	20					100	1,811		121											
<b>TOTAL FOR PROJECT NO. 2020CPT.11.09.20051</b>																																
														16.78		0	110	0	600	1,935	16,782	3,908	1,386	0	0.00							

<b>GRAND TOTAL</b>																																
														23.73		1,390	250	13.90	5,480	3,935	25,218	3,908	1,951	844	5.05							

For 'Mile Post' information, visit [ncdot.maps.arcgis.com](http://ncdot.maps.arcgis.com), then select 'NCDOT Distance Hatches & Structures Map'

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.11.08.10051	2	2
2020CPT.11.09.20051		

### THERMOPLASTIC AND PAINT QUANTITIES

Project No.	County	Map No.	Route	Route Name	From Description	To Description	TYP NO	LANES	LANE TYPE	Mile Post From	Mile Post To	LENGTH	WIDTH	4413000000-E	4457000000-N	4810000000-E		4820000000-E	4845000000-N	4905000000-N
														WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL	4" WHITE PAINT	4" YELLOW PAINT	8" YELLOW PAINT	PAINT LT ARROW	SNOW PLOWABLE MARKERS
														SF	LS	LF	LF	LF	EA	EA
2020CPT.11.08.10051	Ashe	1A	NC 16	NC 16	Bridge #30 Over SR 1573	Bridge #42 over Helton Creek	1	5	2WU	16.54	19.93	3.39	22	424	1	71,597	71,597	1,000	12	225
2020CPT.11.08.10051	Ashe	1B	NC 16	NC 16	Bridge #42 over Helton Creek	VA State Line	1	3	2WU	19.97	23.53	3.56	22	445		75,187	75,187			235
<b>TOTAL FOR PROJECT NO. 2020CPT.11.08.10051</b>												<b>6.95</b>		<b>869</b>	<b>1</b>	<b>146,784</b>	<b>146,784</b>	<b>1,000</b>	<b>12</b>	<b>460</b>
													293,568							
2020CPT.11.09.20051	Ashe	2	SR 1573	Old Hwy 16	SR 1538	SR 1551	2	2	2WU	11.70	14.26	2.56	16	320						
2020CPT.11.09.20051	Ashe	3	SR 1545	Red Hill Rd	BEGIN PAVEMENT	VA State Line	2	2	2WU	0.00	0.78	0.78	18							
2020CPT.11.09.20051	Ashe	4	SR 1351	Campbell Rd	BEGIN PAVEMENT	NC 194	2	2	2WU	0.84	2.04	1.20	18							
2020CPT.11.09.20051	Ashe	5	SR 1121	Peak Rd	SR 1100	SR 1122	2	2	2WU	0.00	1.16	1.16	18	145						
2020CPT.11.09.20051	Ashe	6	SR 1122	Muddy Branch Rd	SR 1121	NC 88	2	2	2WU	0.00	1.24	1.24	18	155						
2020CPT.11.09.20051	Ashe	7	SR 1140	Golf Course Rd	SR 1138	SR 1248	2	2	2WU	0.00	1.54	1.54	18							
2020CPT.11.09.20051	Ashe	8	SR 1147	Nettle Knob Rd	NC 163	SR 1181	2	2	2WU	0.00	1.55	1.55	18							
2020CPT.11.09.20051	Ashe	9	SR 1177	Water Tank Rd	US 221 Project Limits	SR 1181	2	2	2WU	0.00	3.34	3.34	20	418						
2020CPT.11.09.20051	Ashe	10A	SR 1003	Idlewild Rd	SR 1183	SR 1166	2	2	2WU	2.07	3.39	1.32	20	165						87
2020CPT.11.09.20051	Ashe	10B	SR 1003	Idlewild Rd	SR 1166	SR 1168	2	2	2WU	3.39	3.81	0.42	18	53						28
2020CPT.11.09.20051	Ashe	10C	SR 1003	Idlewild Rd	SR 1168	SR 1172	2	2	2WU	3.81	5.48	1.67	20	209						110
<b>TOTAL FOR PROJECT NO. 2020CPT.11.09.20051</b>												<b>16.78</b>		<b>1,464</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>225</b>
													293,568							
<b>GRAND TOTAL</b>												<b>23.73</b>		<b>2,333</b>	<b>1</b>	<b>146,784</b>	<b>146,784</b>	<b>1,000</b>	<b>12</b>	<b>685</b>
													293,568							

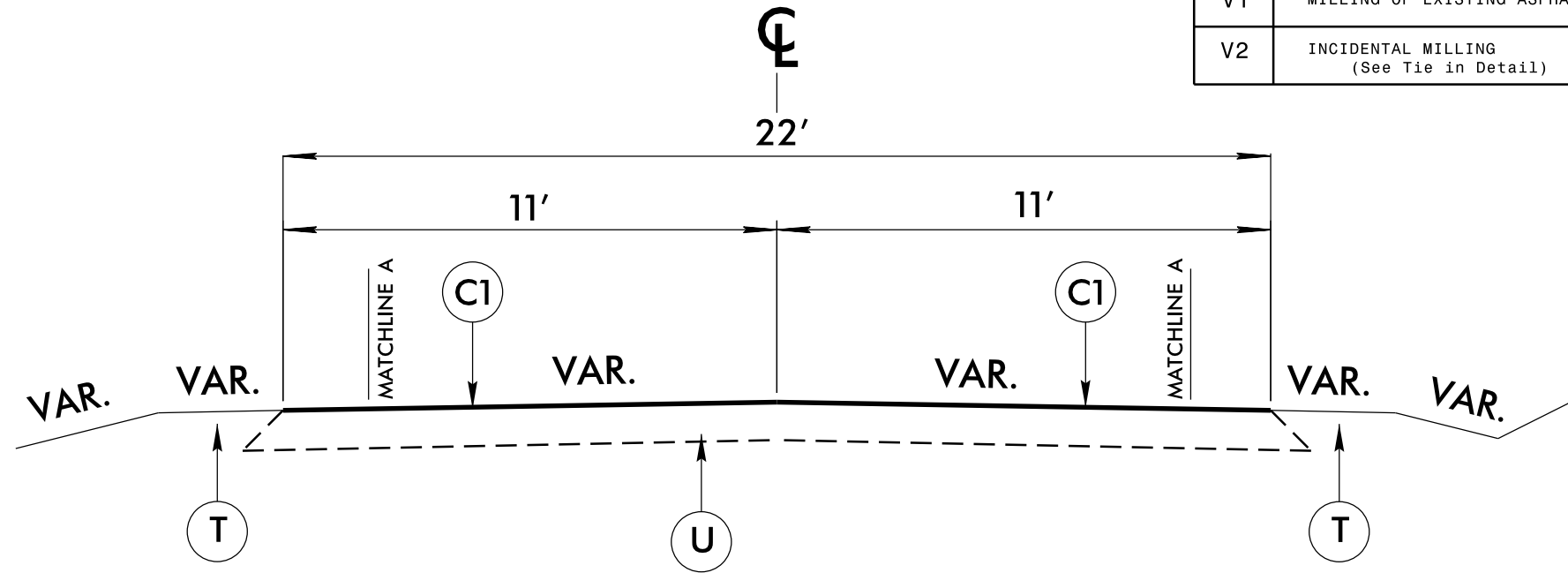
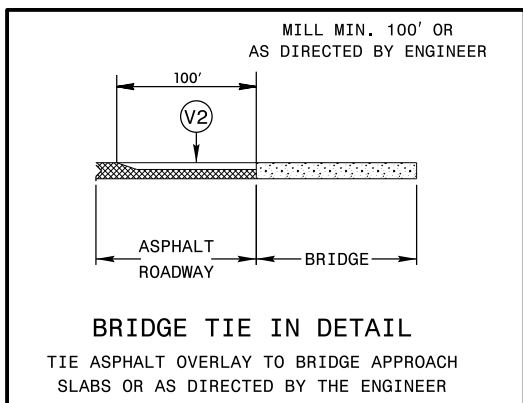
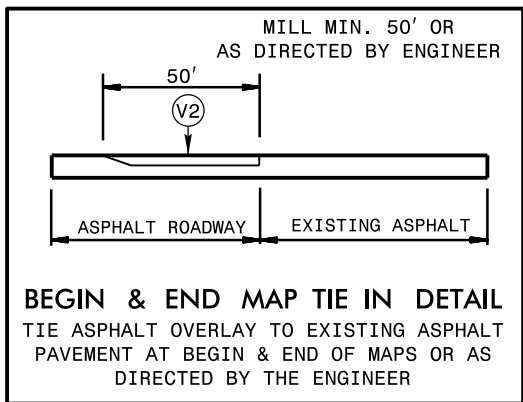
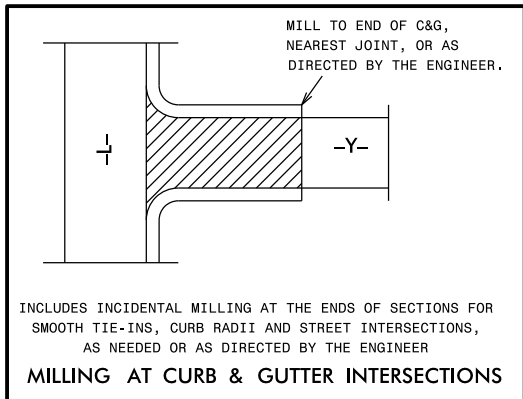
For 'Mile Post' information, visit [ncdot.maps.arcgis.com](http://ncdot.maps.arcgis.com), then select 'NCDOT Distance Hatches & Structures Map'

8/17/99

\* "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. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1½"
V2	INCIDENTAL MILLING (See Tie in Detail)



**TYPICAL SECTION NO. 1**

MAP 1A - NC 16 FROM BRIDGE #30 TO BRIDGE #42  
MAP 1B - NC 16 FROM BRIDGE #42 TO VA STATE LINE

**ASHE COUNTY  
PRIMARY ROADS  
ASPHALT RESURFACING**



REVISIONS	INT.	DATE

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

SCALE: N/A DATE: 11/19/2020  
PREPARED BY: GK  
REVIEWED BY:  
REVIEWED BY:

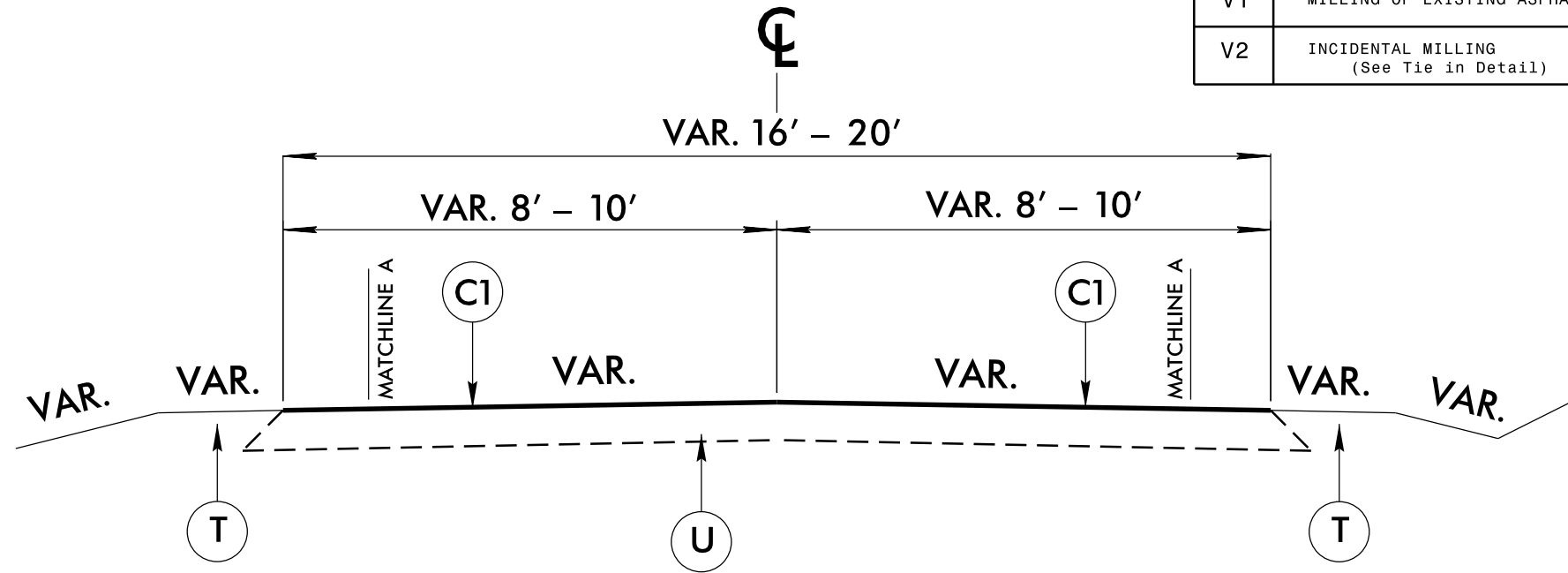
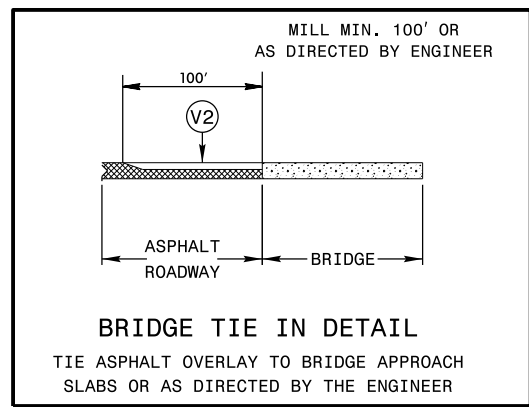
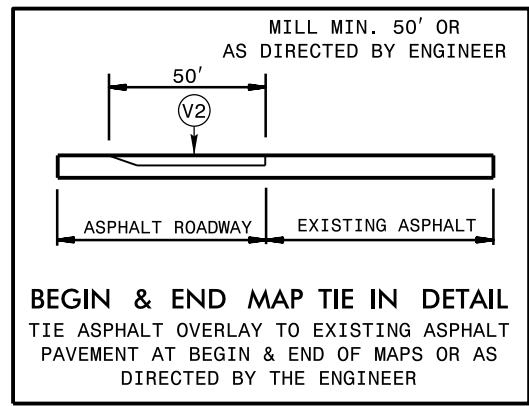
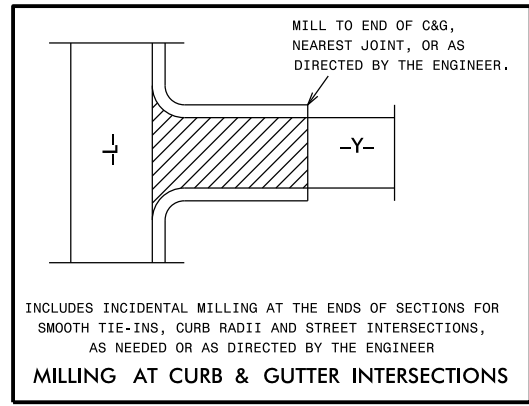
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8/17/99

\* "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. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
U	EXISTING PAVEMENT
V1	MILLING OF EXISTING ASPHALT PAVEMENT AT DEPTH OF 1 1/2"
V2	INCIDENTAL MILLING (See Tie in Detail)



### TYPICAL SECTION NO. 2

- MAP 2 - OLD HWY 16 FROM SR 1538 TO SR 1551
- MAP 3 - RED HILL RD FROM BEGIN OF PVMT TO VA STATE LINE
- MAP 4 - CABELL RD FROM BEGIN OF PVMT TO NC 194
- MAP 5 - PEAK RD FROM SR 1100 TO SR 1122
- MAP 6 - MUDDY BRANCH RD FROM SR 1121 TO NC 88
- MAP 7 - GOLF COURSE RD FROM SR 1138 TO SR 1248
- MAP 8 - NETTLE KNOB RD FROM NC 163 TO SR 1181
- MAP 9 - WATER TANK RD FROM US 221 PROJ LIMITS TO SR 1181
- MAP 10A- IDLEWILD RD FROM SR 1183 TO SR 1166
- MAP 10B- IDLEWILD RD FROM SR 1166 TO SR 1168
- MAP 10C- IDLEWILD RD FROM SR 1168 TO SR 1172

**ASHE COUNTY  
SECONDARY ROADS  
ASPHALT RESURFACING**

REVISIONS	INT.	DATE

SCALE: N/A
DATE: 11/19/2020

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

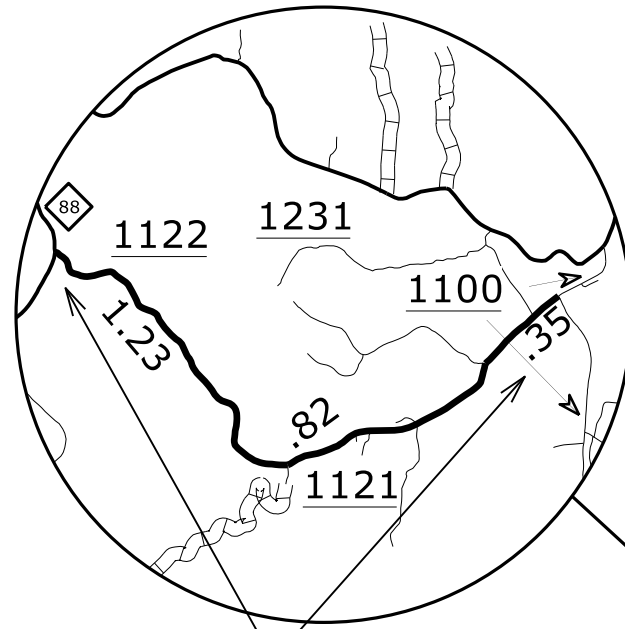
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REVIEWED BY:  
REVIEWED BY:

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# ASHE COUNTY

2020 RESURFACING  
MAP # 3 - #7 AND # 10A - # 10C

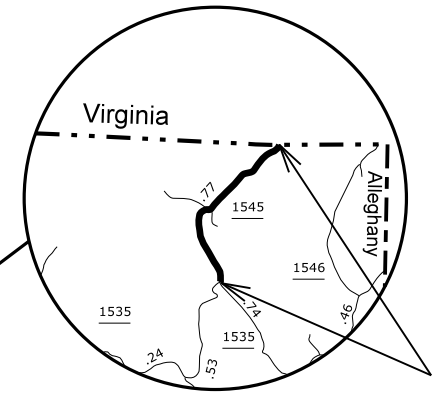
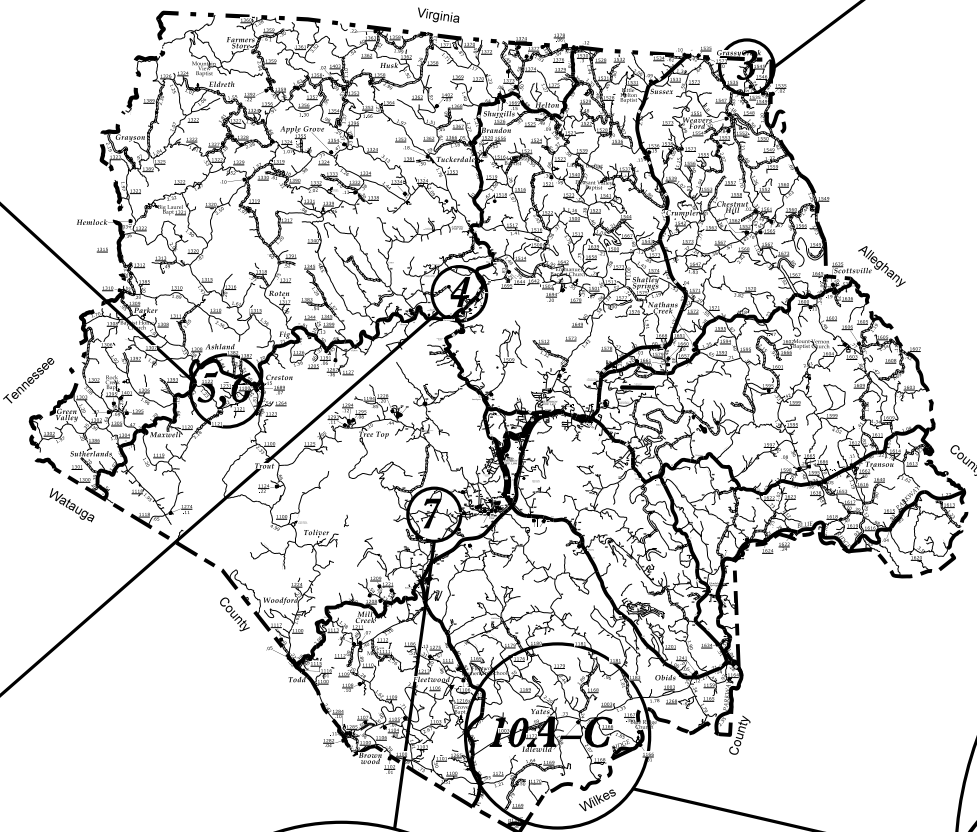
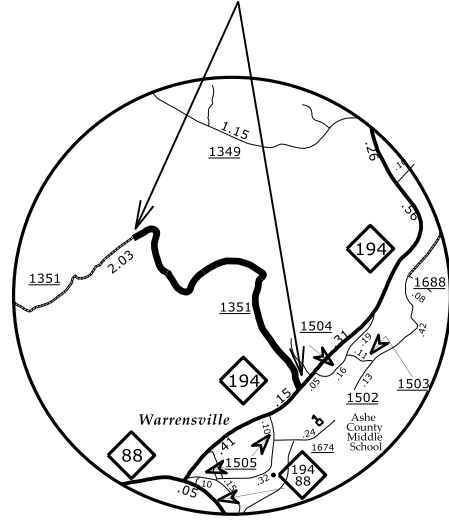


MAP #5 & #6

- ★ SR 1121 PEAK RD.-(1.16mi.)  
(FROM BRIDGE #0187 TO SR 1122)
- ★ SR 1122 MUDDY BRANCH RD.-(1.24mi.)  
(FROM SR 1121 TO NC 88)

MAP #4

- ★ SR 1351 CAMPBELL RD.-(1.20mi.)  
(FROM BEG PVT TO NC 194)



MAP #3

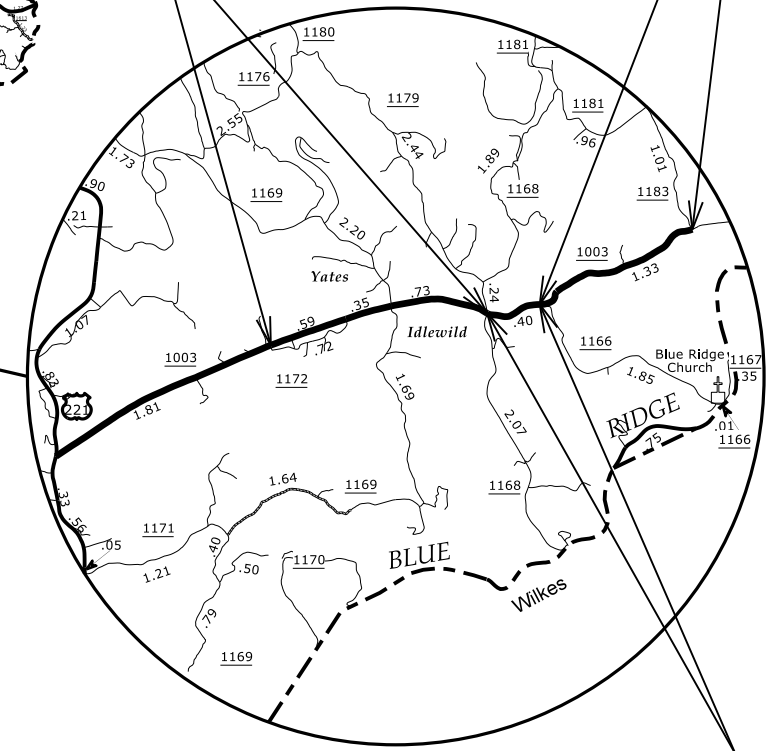
- ★ SR 1545 RED HILL RD.-(0.78mi.)  
(FROM BEGIN PVT TO VA SL)

MAP #10A

- ★ SR 1003 IDLEWILD RD.-(1.33mi.)  
(FROM SR 1183 TO SR 1166)

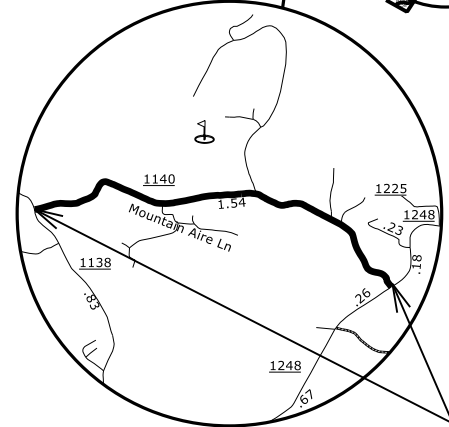
MAP #10C

- ★ SR 1003 IDLEWILD RD.-(1.67mi.)  
(FROM SR 1168 TO SR 1172)



MAP #10B

- ★ SR 1003 IDLEWILD RD.-(0.42mi.)  
(FROM SR 1166 TO SR 1168)



MAP #7

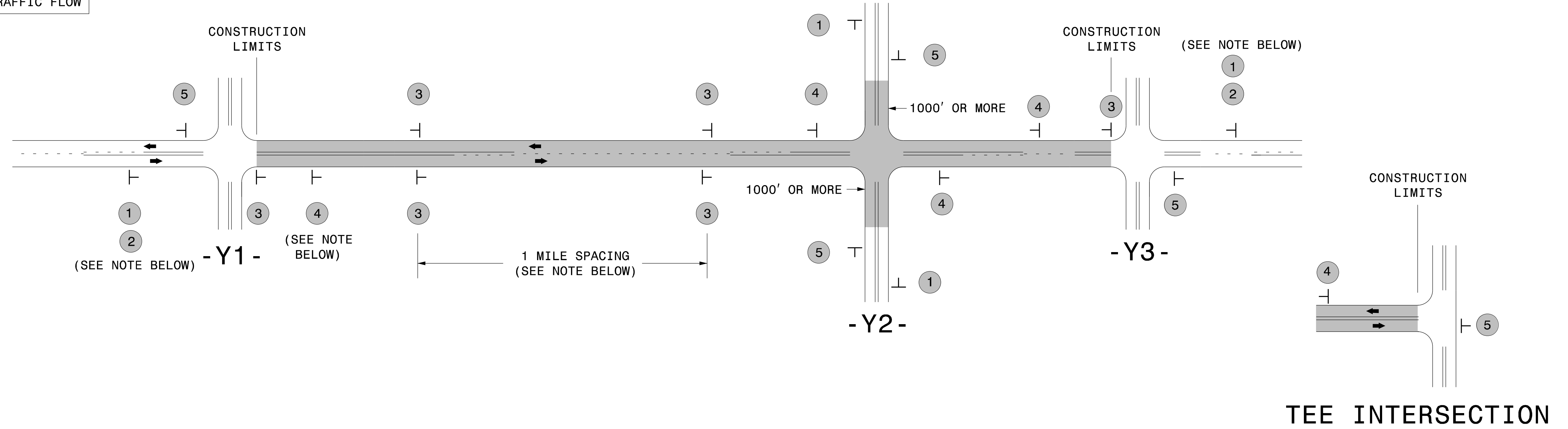
- ★ SR 1140 GOLF COURSE RD.-(1.54mi.)  
(FROM SR 1138 TO SR 1248)

# SIGNING FOR RESURFACING PROJECTS

**LEGEND**

┃ STATIONARY SIGN

← DIRECTION OF TRAFFIC FLOW



## MAINLINE (-L-) SIGNING

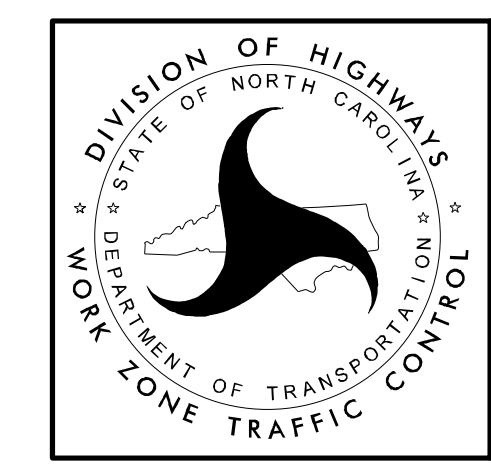
## -Y- LINE SIGNING

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><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></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;">                   W20-1                  48" X 48"             </div> <div style="text-align: center;">                   W20-7 A                  48" X 48"             </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER.      PLACED 250' IN ADVANCE OF FLAGGER.</p>
	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	 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	 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.

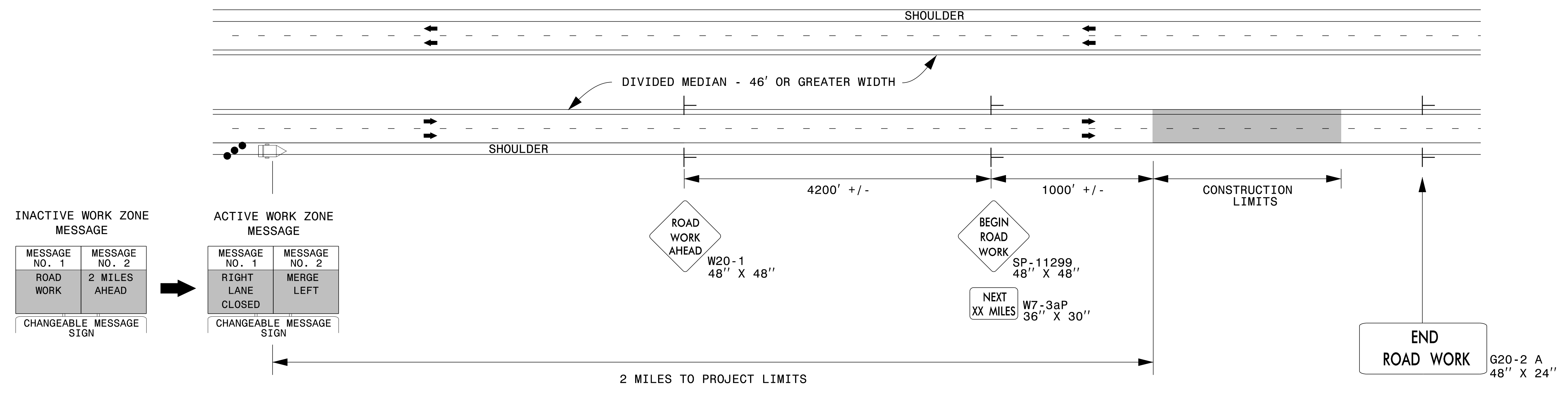
### MAPS LESS THAN 2 MILES

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.

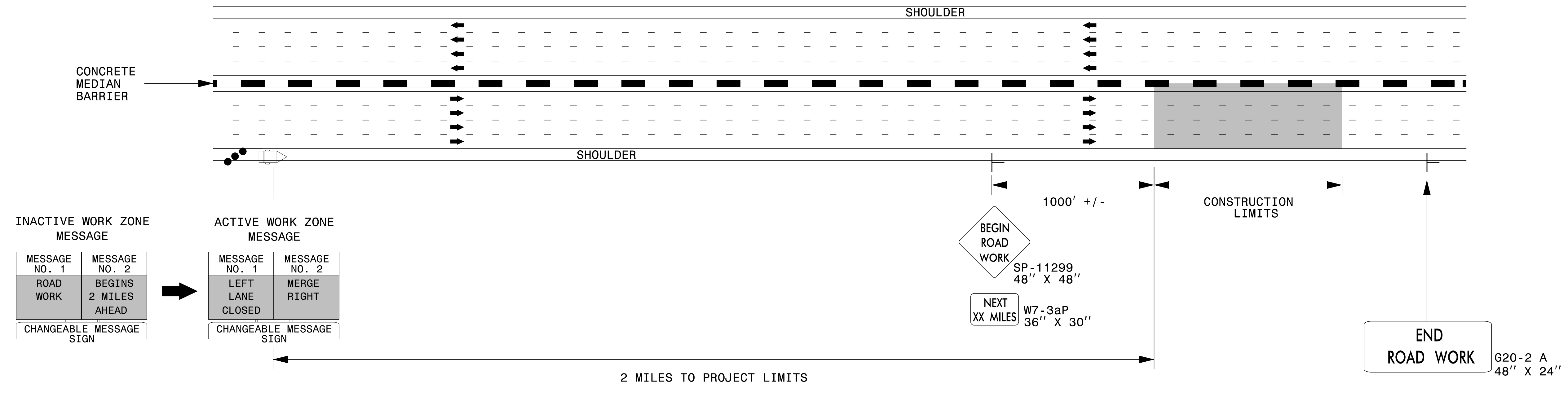


**ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2-LANE ROADWAY RESURFACING**

## DIVIDED MEDIANS WITH WIDTHS 46' OR GREATER



## DIVIDED MEDIANS WITH WIDTHS LESS THAN 46' OR WITH PERMANENT MEDIAN BARRIER

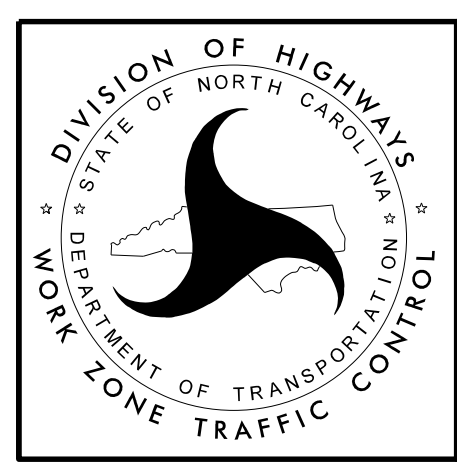


**NOTES:**

- 1) LATERAL CLEARANCE AT ALL SIGN LOCATIONS SHALL BE 6' AS MEASURED FROM THE EDGE OF PAVEMENT.
- 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) FOR MEDIAN WIDTHS LESS THAN 46' (MEASURED EDGELINE TO EDGELINE) USE THE BOTTOM DRAWING.
- 4) IF STATIONARY GENERAL WARNING SIGNS ARE USED, THEY WILL BE PAID FOR PER SECTION 104 OF THE NCDOT STANDARD SPECIFICATIONS AS EXTRA WORK.
- 5) INSTALL "ROAD WORK AHEAD" (W20-1) ALONG ENTRANCE RAMP 500' PRIOR TO RAMP TERMINAL, AND "END ROAD WORK" (G20-2a) AT THE END OF EXIT RAMP WITHIN THE WORK ZONE.
- 6) 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 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.

**LEGEND**

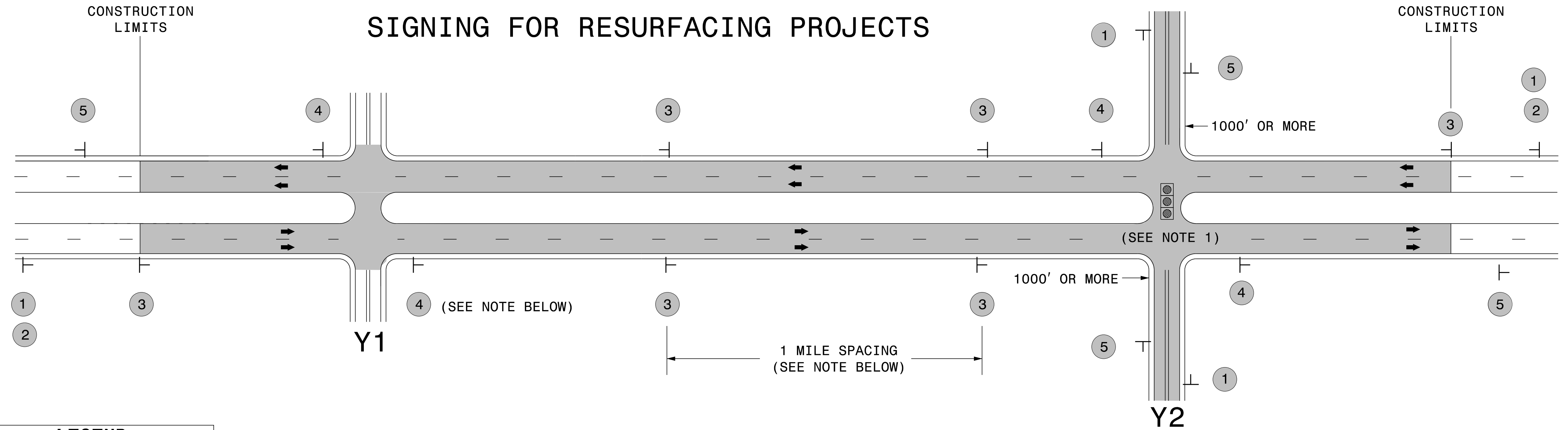
- CHANGEABLE MESSAGE SIGN (CMS)
- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW
- TRAFFIC DRUM



**RESURFACING ADVANCE WARNING SIGNS FOR HIGH SPEED FACILITIES ≥ 60 MPH**

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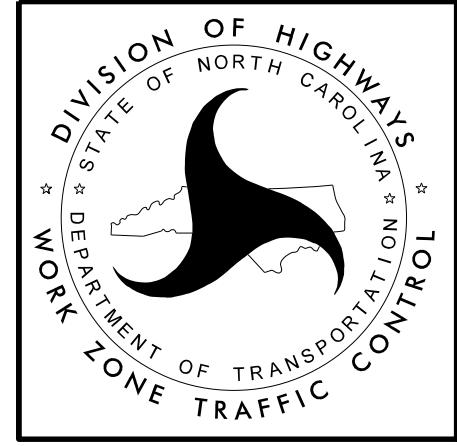
**LEGEND**  
 T STATIONARY SIGN  
 ← DIRECTION OF TRAFFIC FLOW

**MAINLINE (-L-) SIGNING**

**-Y- LINE SIGNING**

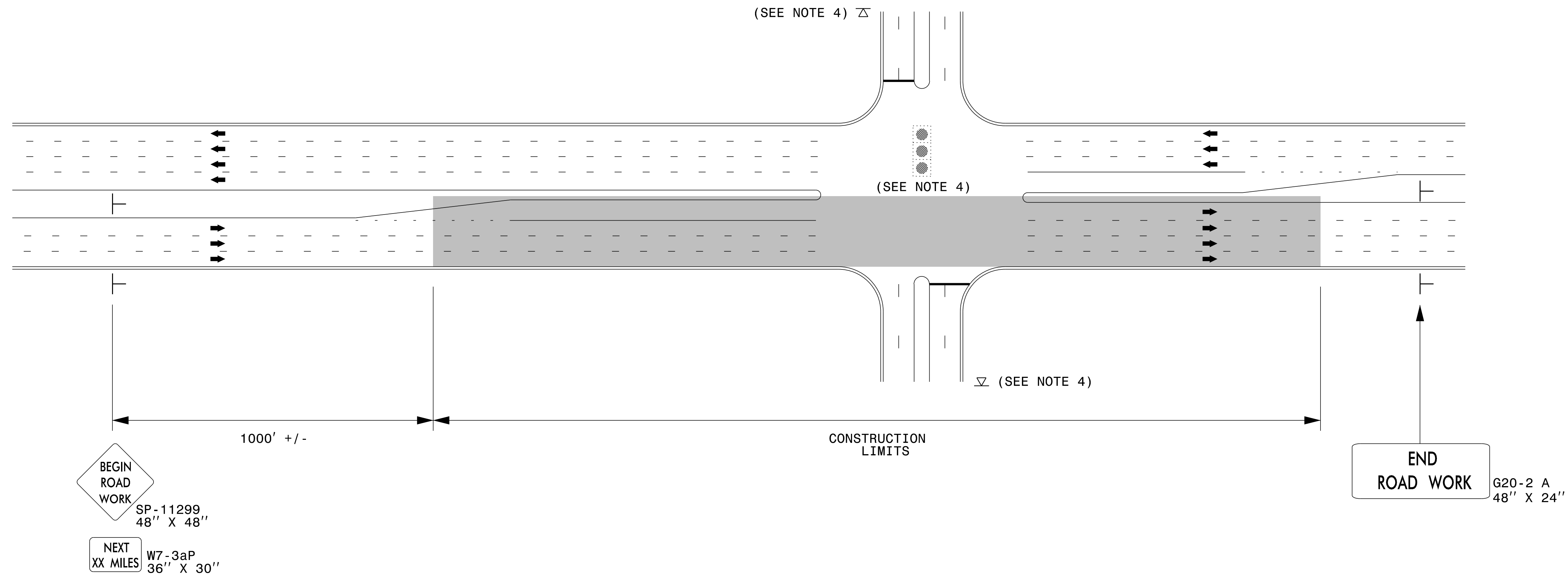
SIGNING NOTES AND PLACEMENT PER DIRECTION	1	 W20-1 48" X 48"	PLACE 1000' PRIOR TO BEGINNING OF CONSTRUCTION LIMITS. ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000' ALONG -Y- LINE.	<p><b>NO REQUIRED STATIONARY SIGNING FOR THE FOLLOWING -Y- LINE CONDITIONS:</b></p> <ol style="list-style-type: 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, ADVANCE WARNING PORTABLE 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; align-items: center;"> <div style="text-align: center;">           W20-1          48" X 48"       </div> <div style="text-align: center;">           W20-7 A          48" X 48"       </div> </div> <p>PLACED 500' IN ADVANCE OF FLAGGER. PLACED 250' IN ADVANCE OF FLAGGER.</p> <p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>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.</li> </ol>
	2	 W7-3aP 24" X 18"	#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)	
	3	 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 1/2 MILE FROM THE CONSTRUCTION LIMITS AND THEN SPACE 1 MILE THEREAFTER.	
	4	 SP 13106 48" X 48"	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.	
5	 G20-2 A 48" X 24"	PLACE 500' FOLLOWING THE END OF CONSTRUCTION LIMITS.		

3/23/2015  
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 User:rmgarrrett



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

## URBAN / SUBURBAN WORKZONES

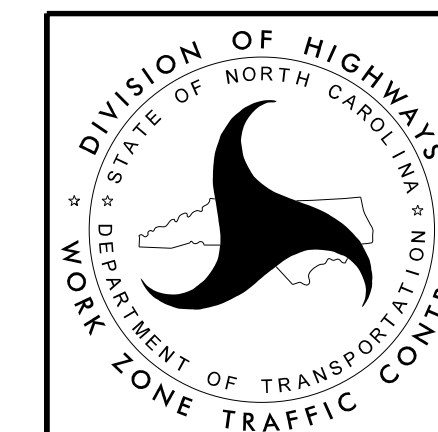


### NOTES:

- 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.

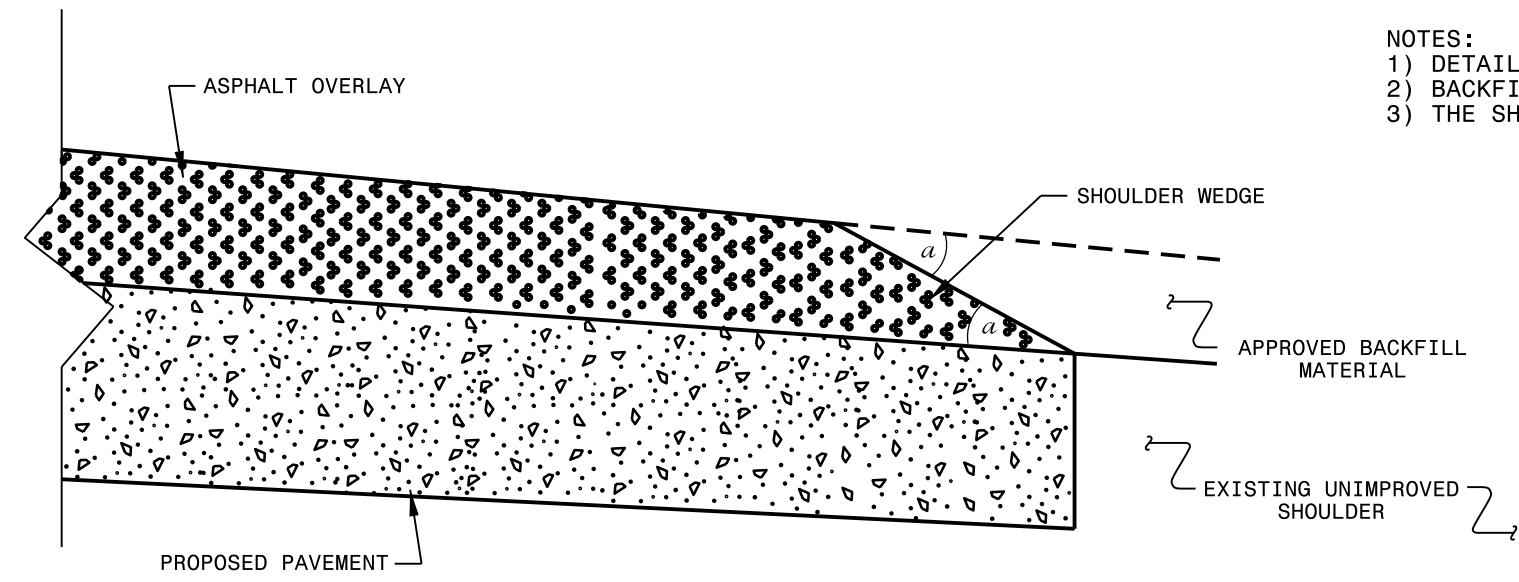
### LEGEND

- ├ STATIONARY SIGN
- ➔ DIRECTION OF TRAFFIC FLOW

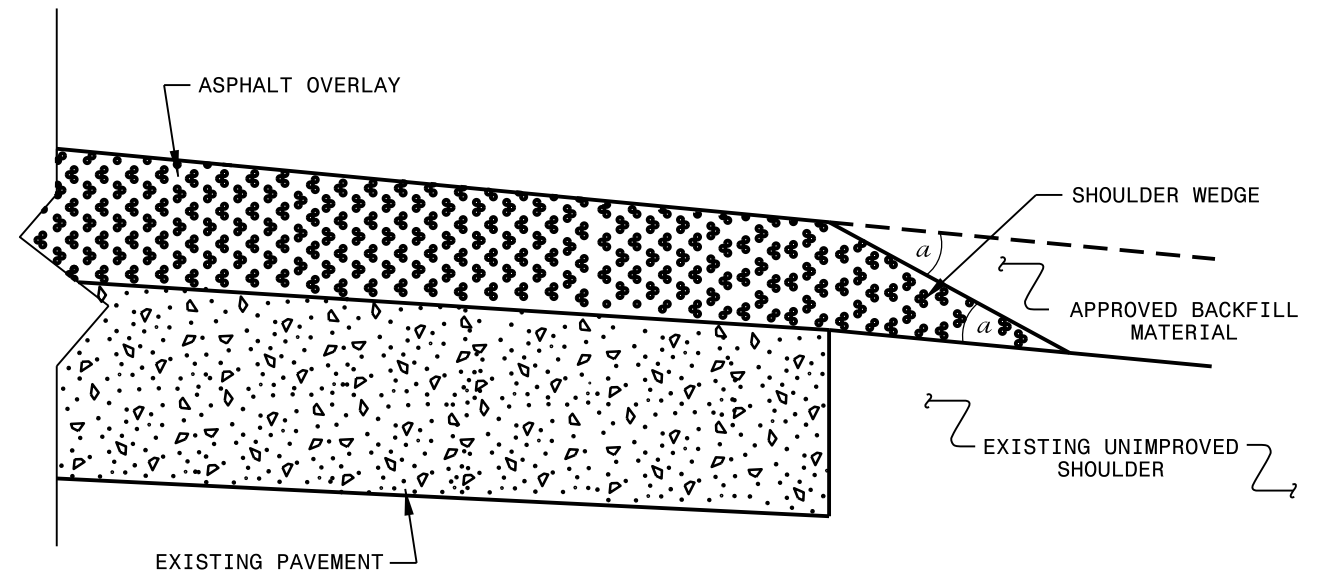


**RESURFACING ADVANCE  
WARNING SIGNS FOR  
URBAN / SUBURBAN  
FACILITIES**

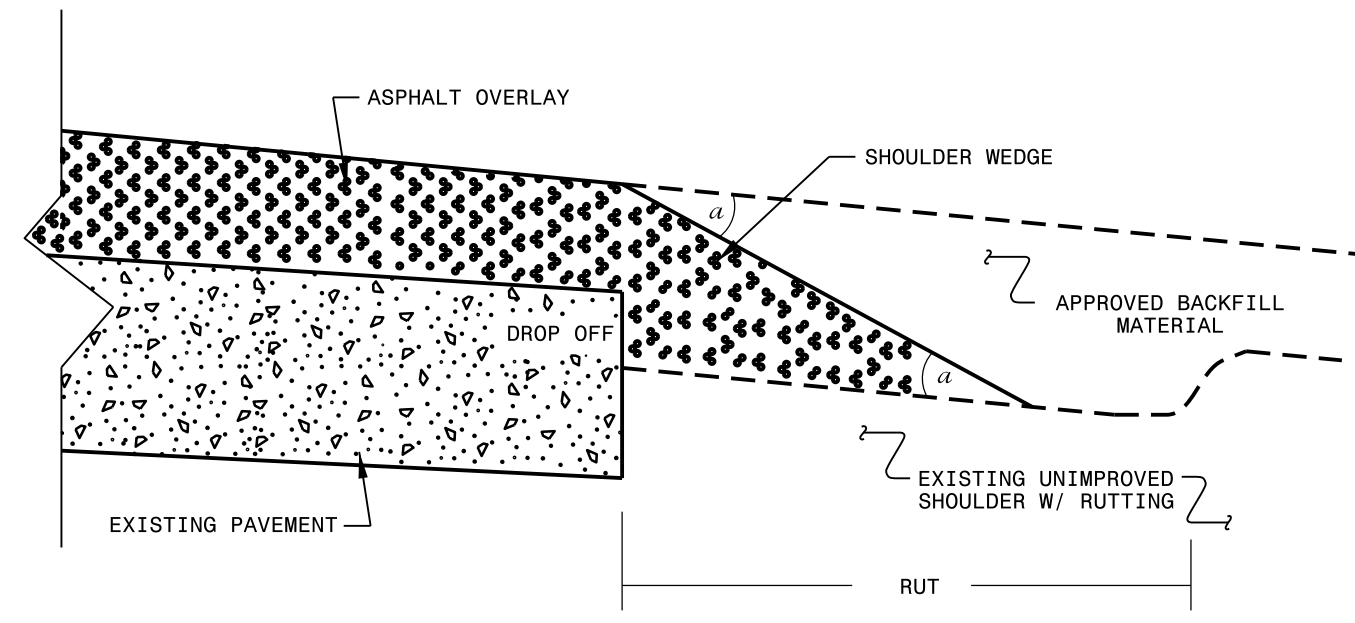
- NOTES:
- 1) DETAIL DOES NOT APPLY TO OGAFD AND ULTRA-THIN BONDED WEARING COURSE.
  - 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
  - 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



**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°

<b>CONTRACT STANDARDS AND DEVELOPMENT UNIT</b>			
Office 919-707-6950		FAX 919-250-4119	
<b>SHOULDER WEDGE DETAILS</b>			
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