PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.11.11.10061	1	2
2020CPT.11.11.10951		
2020CPT.11.11.20061		
2020CPT.11.11.20951		

SUMMARY OF QUANTITIES

Project No.	County	Map No.	Route	Route Name	From Description	To Description	Milepost From	Milepost To	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	0106000000-E BORROW	1220000000-E INCIDENTAL STONE BASE	1245000000-E SHOULDER RECONSTRUCTION	1297000000-E 1.5" MILLING	1330000000-E INCIDENTAL MILLING	1519000000-E SURFACE COURSE, S9.5B	1520000000-E LEVELING COURSE	1575000000-E ASPHALT BINDER FOR PLANT MIX	1704000000-E PATCHING EXISTING PAVEMENT	2815000000-N ADJ. OF DROP INLET	2830000000-N ADJ. OF MANHOLES	2845000000-N ADJ. OF METER OR VALVE BOX	7288000000-E PAVED TRENCHING (**********) LF	7300000000-E UNPAVED TRENCHING (**********) LF	7324000000-N JUNCTION BOX (STANDARD SIZE) EA	7444000000-E INDUCTIVE LOOP	7456000000-E LEAD-IN CABLE	6084000000-E SEED & MULCHING
												MI	FT	CY	TONS	SMI	SY	SY	TONS	TONS	TONS	TONS	EA	EA	EA	LF	LF	EA	LF	LF	AC
2020CPT.11.11.10061	Avery	1A	NC 184	Tynecastle Hwy	NC 105	Banner Rd (NS)	0.00	3.90		2	2WU	3.90	25	780	78	7.80		700	5,191		348	519									2.84
2020CPT.11.11.10061	Avery	1B	NC 184	Shawneehaw Ave	Banner Rd (NS)	NC 194 (Main Str.)	3.90	4.25		2	2WU	0.35	32				6,600		596		40		2	10	19	100	100	1	500	100	
2020CPT.11.11.10061	Avery	1C	NC 184	NC 184/NC 194 (Main Str.)	NC 194 (Main Street)	NC 194 (Main Street)	4.25	4.61		2	2WU	0.36	25				5,300		479		32										
2020CPT.11.11.10061	Avery	1D	NC 184	NC 184 (Beech Mountain Pkwy)	NC 194	Sunset Strip (NS)	4.61	7.70		2	2WU	3.09	40					675	6,580		441			3	2						
2020CPT.11.11.10061	Avery	1E	NC 184	NC 184 (Beech Mountain Pkwy)	Sunset Strip (NS)	Watauga Co Line	7.70	8.39		2	2WU	0.69	40				16,200		1,469		98			3	2						
2020CPT.11.11.10061	Avery	2A	NC 194	NC 194 (Main Str.)	SCL Banner Elk	NC 184 (Beech Mountain Pkwy)	24.95	25.52		2	2WU	0.57	25				8,400		759		51										
2020CPT.11.11.10061	Avery	2B	NC 194	NC 194 (Main Str.)	NC 184 (Shawneehaw Ave.)	End of Side Walk/Gutter Section	25.88	26.08		2	2WU	0.20	22				2,600		234		16	23		5		100	100	2	700	100	
2020CPT.11.11.10061	Avery	2C	NC 194	NC 194 (Main Str./Balm Hwy)	End Sidewalk/Gutter Section	Watauga County Line	26.08	27.96		2	2WU	1.88	23	376	38	3.76		250	2,302												
TOTAL FOR PROJECT NO. 2020CPT.11.11.10061												**11.04**		**1,156**	**116**	**11.56**	**39,100**	**1,625**	**17,611**	**0**	**1,026**	**543**	**2**	**21**	**23**	**200**	**200**	**3**	**1,200**	**200**	**2.84**
2020CPT.11.11.10951	Watauga	3	NC 184	Beech Mountain Parkway	Avery Co Line	End State Maintenance	0.00	1.01		2	2WU	1.01	17	202	10	2.02		200	914	0	61	91									
TOTAL FOR PROJECT NO. 2020CPT.11.11.10951												**1.01**		**202**	**10**	**2.02**	**0**	**200**	**914**	**0**	**61**	**91**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.00**
2020CPT.11.11.20061	Avery	4	SR 1328	Edgar Tufts Rd	NC 194	End State Maintenance	0.00	1.30		2	2WU	1.30	18		10			100	1,246		83										
2020CPT.11.11.20061	Avery	5	SR 1358	Horney Creek Rd	SR 1328	End State Maintenance	0.00	0.61		2	2WU	0.61	19		10				617	187	54										
2020CPT.11.11.20061	Avery	6	SR 1510	Old Yonahlossee Rd	US 221	ECL Linville	0.00	0.71		2	2WU	0.71	18		10			100	680		46										
2020CPT.11.11.20061	Avery	7	SR 1511	Roseboro Ave	SR 1545	MP 0.84	0.00	0.84		2	2WU	0.84	18		10			100	805	244	70										
2020CPT.11.11.20061	Avery	8	SR 1374	Seven Devils Dr/Skyview Rd	Watauga Co Line	End State Maintenance	0.00	0.26		2	2WU	0.26	18		10				249	76	22										
2020CPT.11.11.20061	Avery	9	SR 1375	Old Farm Rd	Watauga Co Line	End State Maintenance	0.00	0.47		2	2WU	0.47	18		10				450		30										
TOTAL FOR PROJECT NO. 2020CPT.11.11.20061												**4.19**		**0**	**60**	**0.00**	**0**	**300**	**4,048**	**506**	**305**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.00**
2020CPT.11.11.20951	Watauga	10	SR 1169	Old Farm Rd	SR 1127	Avery Co Line	0.00	0.25		2	2WU	0.25	20		10			100	266		18										
2020CPT.11.11.20951	Watauga	11	SR 1151	Seven Devils Rd/Skyland Dr	SCL Seven Devils	Avery Co Line	0.73	2.83		2	2WU	2.10	18		10			100	2014		135										
TOTAL FOR PROJECT NO. 2020CPT.11.11.20951												**2.35**		**0**	**20**	**0.00**	**0**	**200**	**2,281**	**0**	**153**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.00**
GRAND TOTAL												**18.59**		**1,358**	**206**	**13.58**	**39,100**	**2,325**	**24,854**	**506**	**1,545**	**634**	**2**	**21**	**23**	**200**	**200**	**3**	**1,200**	**200**	**2.84**

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

PROJECT NO.	SHEET NO.	TOTAL NO.
2020CPT.11.11.10061	2	2
2020CPT.11.11.10951		
2020CPT.11.11.20061		
2020CPT.11.11.20951		

THERMOPLASTIC AND PAINT QUANTITIES

														4413000000-E	4457000000-N	4810000000-E		4820000000-E	4835000000-E	4845000000-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	4" WHITE PAINT	4" YELLOW PAINT	8" YELLOW PAINT	24" WHITE PAINT	PAINT STR ARROW	PAINT LT ARROW	PAINT RT ARROW	SNOW PLOWABLE MARKERS
												MI	FT	SF	LS	LF	LF	LF	LF	EA	EA	EA	EA
2020CPT.11.11.10061	Avery	1A	NC 184	Tynecastle Hwy	NC 105	Banner Rd (NS)	0.00	3.90		2	2WU	3.90	26	470	1	82,368	82,368	1,200			20	10	257
2020CPT.11.11.10061	Avery	1B	NC 184	Shawneehaw Ave	Banner Rd (NS)	NC 194 (Main Str.)	3.90	4.25		2	2WU	0.35	26	40		4,000	7,392		280				23
2020CPT.11.11.10061	Avery	1C	NC 184	NC 184/NC 194 (Main Str.)	NC 194 (Main Street)	NC 194 (Main Street)	4.25	4.61		2	2WU	0.36	25	40		1,500	7,603		480	2		2	24
2020CPT.11.11.10061	Avery	1D	NC 184	NC 184 (Beech Mountain Pkwy)	NC 194	Sunset Strip (NS)	4.61	7.70		2	2WU	3.09	22	400		65,261	65,261						204
2020CPT.11.11.10061	Avery	1E	NC 184	NC 184 (Beech Mountain Pkwy)	Sunset Strip (NS)	Watauga Co Line	7.70	8.39		2	2WU	0.69	40	25		14,573	14,573						46
2020CPT.11.11.10061	Avery	2A	NC 194	NC 194 (Main Str.)	SCL Banner Elk/Elkview PL	NC 184 (Beech Mountain Pkwy)	24.95	25.52		2	2WU	0.57	20	60		12,038	12,038						38
2020CPT.11.11.10061	Avery	2B	NC 194	NC 194 (Main Str.)	NC 184 (Shawneehaw Ave.)	End of Side Walk/Gutter Section	25.88	26.08		2	2WU	0.20	18	25		1,500	4,224		20				13
2020CPT.11.11.10061	Avery	2C	NC 194	NC 194 (Main Str./Balm Hwy)	End Sidewalk/Gutter Section	Watauga County Line	26.08	27.96		2	2WU	1.88	18	225		39,706	39,706						124
TOTAL FOR PROJECT NO. 2020CPT.11.11.10061												**11.04**		**1,285**	**1**	**220,946**	**233,165**	**1,200**	**780**	**2**	**20**	**12**	**729**
																454,110				**34**			
2020CPT.11.11.10951	Watauga	3	NC 184	Beech Mountain Parkway	Avery Co Line	End State Maintenance	0.00	1.01		2	2WU	1.01	18	140		21,331	21,331						67
TOTAL FOR PROJECT NO. 2020CPT.11.11.10951												**1.01**		**140**	**0**	**21,331**	**21,331**	**0**	**0**	**0**	**0**	**0**	**67**
																42,662				**0**			
2020CPT.11.11.20061	Avery	4	SR 1328	Edgar Tufts Rd	NC 194	End State Maintenance	0.00	1.30		2	2WU	1.30	18										
2020CPT.11.11.20061	Avery	5	SR 1358	Horney Creek Rd	SR 1328	End State Maintenance	0.00	0.61		2	2WU	0.61	18										
2020CPT.11.11.20061	Avery	6	SR 1510	Old Yonahlossee Rd	US 221	ECL Linville	0.00	0.71		2	2WU	0.71	18										
2020CPT.11.11.20061	Avery	7	SR 1511	Roseboro Ave	SR 1545	MP 0.84	0.00	0.84		2	2WU	0.84	21										
2020CPT.11.11.20061	Avery	8	SR 1374	Seven Devils Dr/Skyview Rd	Watauga Co Line	End State Maintenance	0.00	0.26		2	2WU	0.26	19										
2020CPT.11.11.20061	Avery	9	SR 1375	Old Farm Rd	Watauga Co Line	End State Maintenance	0.00	0.47		2	2WU	0.47	18										
TOTAL FOR PROJECT NO. 2020CPT.11.11.20061												**4.19**		**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
2020CPT.11.11.20951	Watauga	10	SR 1169	Old Farm Rd	SR 1127	Avery Co Line	0.00	0.25		2	2WU	0.25	18										
2020CPT.11.11.20951	Watauga	11	SR 1151	Seven Devils Rd/Skyland Dr	SCL Seven Devils	Avery Co Line	0.73	2.83		2	2WU	2.10	20	225									
TOTAL FOR PROJECT NO. 2020CPT.11.11.20951												**2.35**		**225**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
GRAND TOTAL												**18.59**		**1,650**	**1**	**242,277**	**254,496**	**1,200**	**780**	**2**	**20**	**12**	**795**
																496,773				**34**			

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

PROJECT REFERENCE NO.	SHEET NO.
DK00276	01

* "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

INCLUDES INCIDENTAL MILLING AT THE ENDS OF SECTIONS FOR SMOOTH TIE-INS, CURB RADII AND STREET INTERSECTIONS, AS NEEDED OR AS DIRECTED BY THE ENGINEER

MILLING AT CURB & GUTTER INTERSECTIONS

TYPICAL SECTION NO. 1

MAP 1A – NC 184 FROM NC 105 TO BANNER RD
MAP 1B – NC 184 FROM BANNER RD TO NC 194
MAP 1C – NC 194 FROM NC 194 TO NC 194
MAP 1D – NC 184 FROM NC 194 TO SUNSET STRIP
MAP 1E – NC 184 FROM SUNSET STRIP TO WATAUGA CO
MAP 2A – NC 194 FROM SCL BANNER ELK TO NC 184
MAP 2B – NC 194 FROM NC 184 TO END OF SIDEWALK/GUTTER
MAP 2C – NC 194 FROM END SIDEWALK/GUTTER TO WATAUGA CO
MAP 3 – NC 184 FROM AVERY CO LINE TO EOM (WATAUGA)
MAP 4 – EDGAR TUFFS RD FROM NC 194 TO EOM
MAP 5 – HORNEY CREEK RD FROM SR 1328 TO EOM
MAP 6 – OLD YONAHALOSSEE RD FROM US 221 TO ECL LINVILLE
MAP 7 – ROSEBORO AVE. FROM SR 1545 TO MP 0.84
MAP 8 – SEVEN DEVILS/SKYVIEW RD FROM WATAUGA CO TO EOM
MAP 9 – OLD FARM RD FROM WATAUGA CO TO EOM
MAP 10 – OLD FARM RD FROM SR 1127 TO AVERY CO LINE (WATAUGA)
MAP 11 – SEVEN DEVILS/SKYLAND DR FROM SCL SEVEN DEVILS TO AVERY CO. (WATAUGA)

BEGIN & END MAP TIE IN DETAIL

TIE ASPHALT OVERLAY TO EXISTING ASPHALT PAVEMENT AT BEGIN & END OF MAPS OR AS DIRECTED BY THE ENGINEER

BRIDGE TIE IN DETAIL

TIE ASPHALT OVERLAY TO BRIDGE APPROACH SLABS OR 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″

AVERY COUNTY
PRIMARY AND SECONDARY ROADS
ASPHALT RESURFACING

REVISIONS	INIT.	DATE

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

DIVISION OF HIGHWAYS · DIVISION 11 · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION

SCALE: N/A	DATE: 02/2020
PREPARED BY:	D. NANCE
REVIEWED BY:	
REVIEWED BY:	

8/17/99
15-OCT-2020 14:10
$$$$USERNAME$$$$
$$$$

PROJECT REFERENCE NO.	SHEET NO.
DK00276	02

AVERY COUNTY

2020 RESURFACING
MAP # 1A, # 1B, # 1C, # 1D, # 1E, #3

N

MAP #3

★ NC 184 – (1.01mi.)
(FROM AVERY TO EOM)

MAP #1E

★ NC 184 – (0.69mi.)
(FROM SUNSET STRIP TO WATAUGA)

MAP #1D

★ NC 184 – (3.09mi.)
(FROM NC 194 TO SUNSET STRIP)

MAP #1C

★ NC 184 – (0.36mi.)
(FROM NC 194 TO NC 194)

MAP #1B

★ NC 184 – (0.35mi.)
(FROM BANNER RD. TO NC 194)

MAP #1A

★ NC 184 – (3.90mi.)
(FROM NC 105 TO BANNER RD.)

PROJECT REFERENCE NO.	SHEET NO.
DK00276	03

AVERY COUNTY

2020 RESURFACING
MAP # 2A, # 4, # 5, # 8, # 11

N

MAP #5

* SR 1358 HORNEY CREEK RD. – (0.61mi.)
(FROM SR 1328 TO EOM)

MAP #2A

* NC 194 – (0.57mi.)
(FROM SCL BANNER ELK TO NC 184)

MAP #4

* SR 1328 EDGAR TUFFS RD. – (1.30mi.)
(FROM NC 194 TO EOM)

MAP #11

* SR 1374 SEVEN DEVILS RD./SKYLAND DR. – (2.10mi.)
(FROM SCL SEVEN DEVILS TO AVERY)

MAP #8

* SR 1374 SEVEN DEVILS RD./SKYVIEW RD. – (0.26mi.)
(FROM WATAUGA TO EOM)

8/17/99

15-OCT-2020 14:06
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
DK00276	04

AVERY COUNTY

2020 RESURFACING
MAP # 2B, # 2C, # 6, # 7, # 9, # 10

N

MAP #9

★ SR 1375 OLD FARM RD. – (0.47mi.)
(FROM WATAUGA TO EOM)

MAP #10

★ SR 1169 OLD FARM RD. – (0.25mi.)
(FROM SR 1127 TO AVERY)

MAP #2B

★ NC 194 – (0.20mi.)
(FROM NC 184 TO PT.)

MAP #2C

★ NC 194 – (1.88mi.)
(FROM PT. TO WATAUGA)

MAP #6

★ SR 1510 OLD YONAHLOOSEE RD. – (0.71mi.)
(FROM US 221 TO LINVILLE ECL)

MAP #7

★ SR 1511 ROSEBORO RD. – (0.84mi.)
(FROM SR 1545 TO PT.)

8/17/99

15-OCT-2020 14:08
$$$$IFNAME$$$$

PROJ. REFERENCE NO.	SHEET NO.

SIGNING FOR RESURFACING PROJECTS

LEGEND
- ⊢ STATIONARY SIGN
- ← DIRECTION OF TRAFFIC FLOW

TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1	ROAD WORK AHEAD — 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.
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	LOW/SOFT SHOULDER — SP 13107 48″ X 48″	- 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.
4	ROAD UNDER CONST — 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. - FOR TEE INTERSECTIONS, INSTALL WITHIN 500′ +/- OF THE INTERSECTION ALONG -L- LINE.
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.

-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, PORTABLE ADVANCE WARNING SIGNS SHALL BE USED ALONG THE -Y- LINE AS SHOWN BELOW. REMOVE UPON COMPLETION OF WORK.

ROAD WORK AHEAD — W20-1 48″ X 48″
PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A 48″ X 48″
PLACED 250′ IN ADVANCE OF FLAGGER.

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.

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

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

5/15/2017
S:\TMU\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:kedals

PROJ. REFERENCE NO.	SHEET NO.

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 RAMPS 500′ PRIOR TO RAMP TERMINAL, AND "END ROAD WORK" (G20-2a) AT THE END OF EXIT RAMPS 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

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING ADVANCE WARNING SIGNS FOR HIGH SPEED FACILITIES ≥ 60 MPH

3/23/2015
C:\Users\rmgarrett\Downloads\Resurfacing_AdvWarn_HSpd.dgn
User:rmgarrett

PROJ. REFERENCE NO.	SHEET NO.

SIGNING FOR RESURFACING PROJECTS

LEGEND

- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1	ROAD WORK AHEAD 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.
2	NEXT XX MILES 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	LOW/SOFT SHOULDER 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.
4	ROAD UNDER CONST 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	END ROAD WORK G20-2 A 48″ X 24″	PLACE 500′ FOLLOWING THE END OF CONSTRUCTION LIMITS.

-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.

ROAD WORK AHEAD
W20-1
48″ X 48″

PLACED 500′ IN ADVANCE OF FLAGGER.

W20-7 A
48″ X 48″

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.

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

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

3/23/2015
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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.

LEGEND

- STATIONARY SIGN
- DIRECTION OF TRAFFIC FLOW

DIVISION OF HIGHWAYS · STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION · WORK ZONE TRAFFIC CONTROL

RESURFACING ADVANCE WARNING SIGNS FOR URBAN / SUBURBAN FACILITIES

4/8/2015
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PROJECT REFERENCE NO.	SHEET NO.

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 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°

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:	10/16/12
CHECKED BY:		DATE:	
FILE SPEC.:	$:usr/details/stand/shoulderwedgedetail.dgn		

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