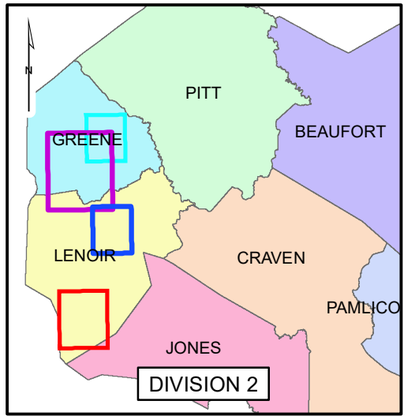


GREENE & LENOIR COUNTY

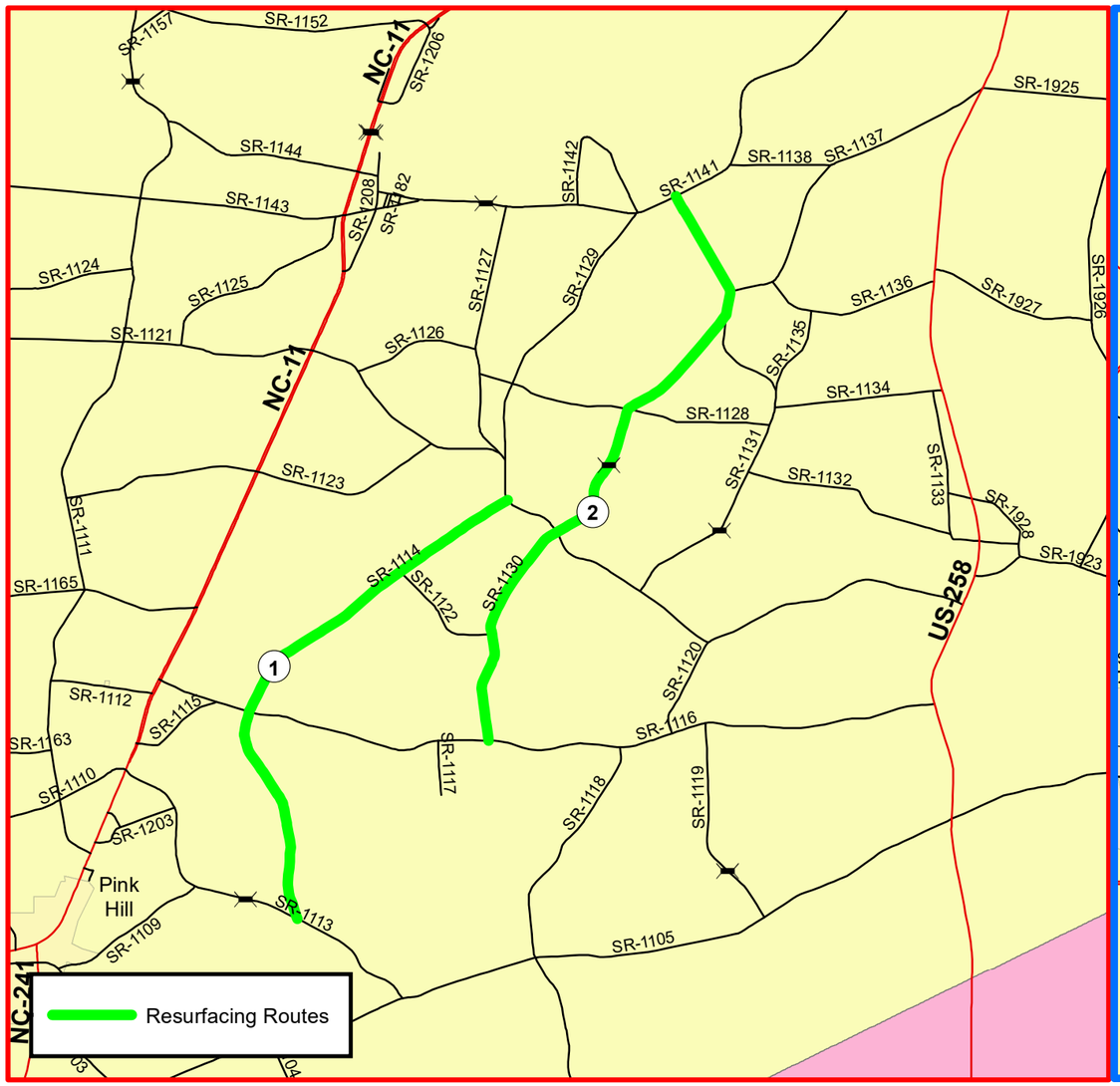
DB00502

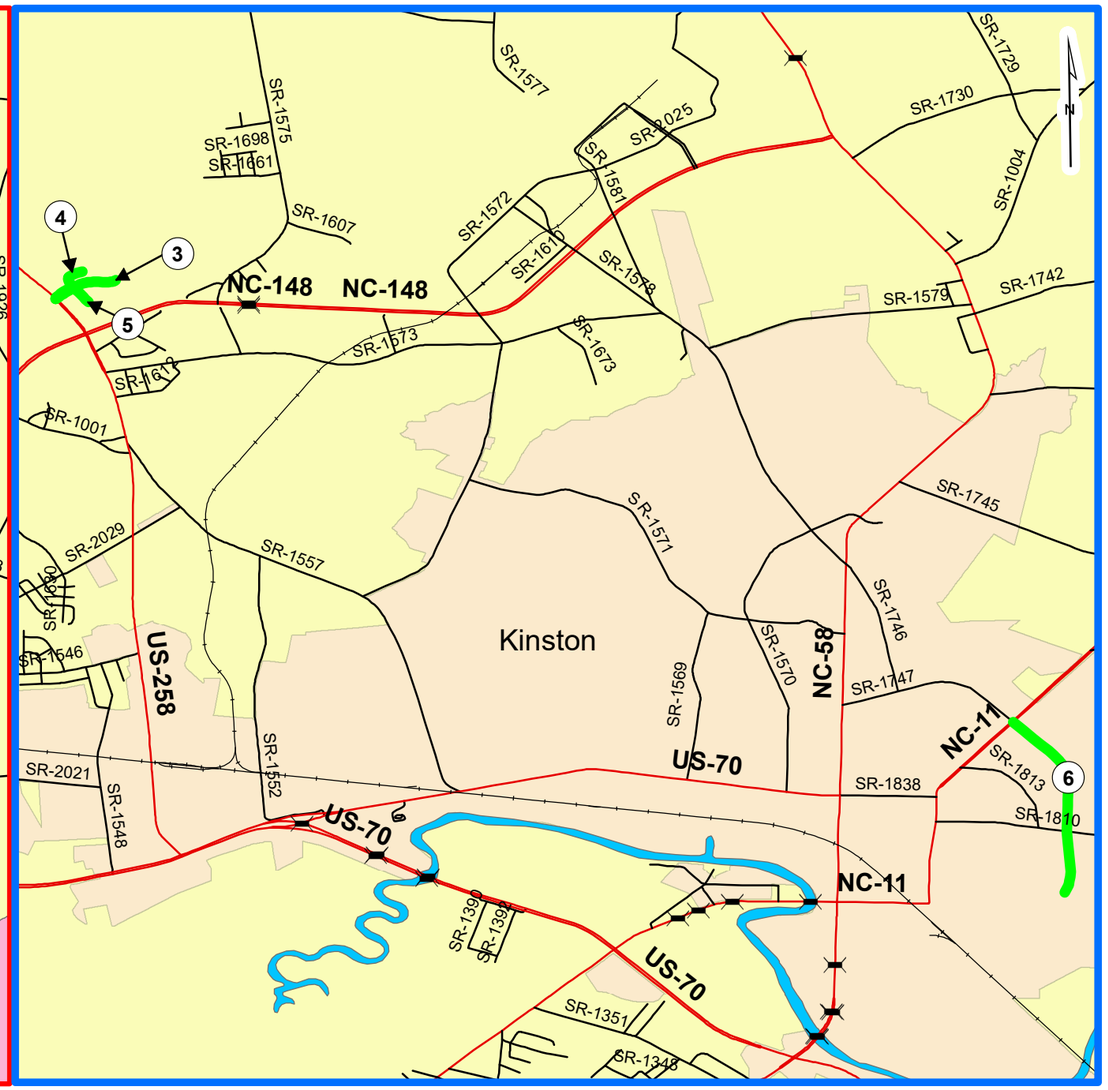
WBS# 2021CPT.02.30.20401
WBS# 2021CPT.02.31.20541

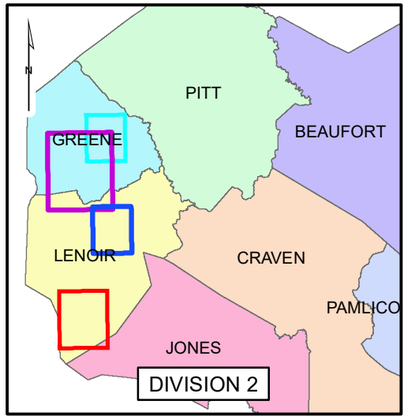
PROJECT REFERENCE NO.	SHEET NO.
DB00502	1

TYPE OF WORK: MILLING, STRENGTHENING, RESURFACING, SHOULDER RECONSTRUCTION

NCDOT
DIVISION 2







GREENE & LENOIR COUNTY

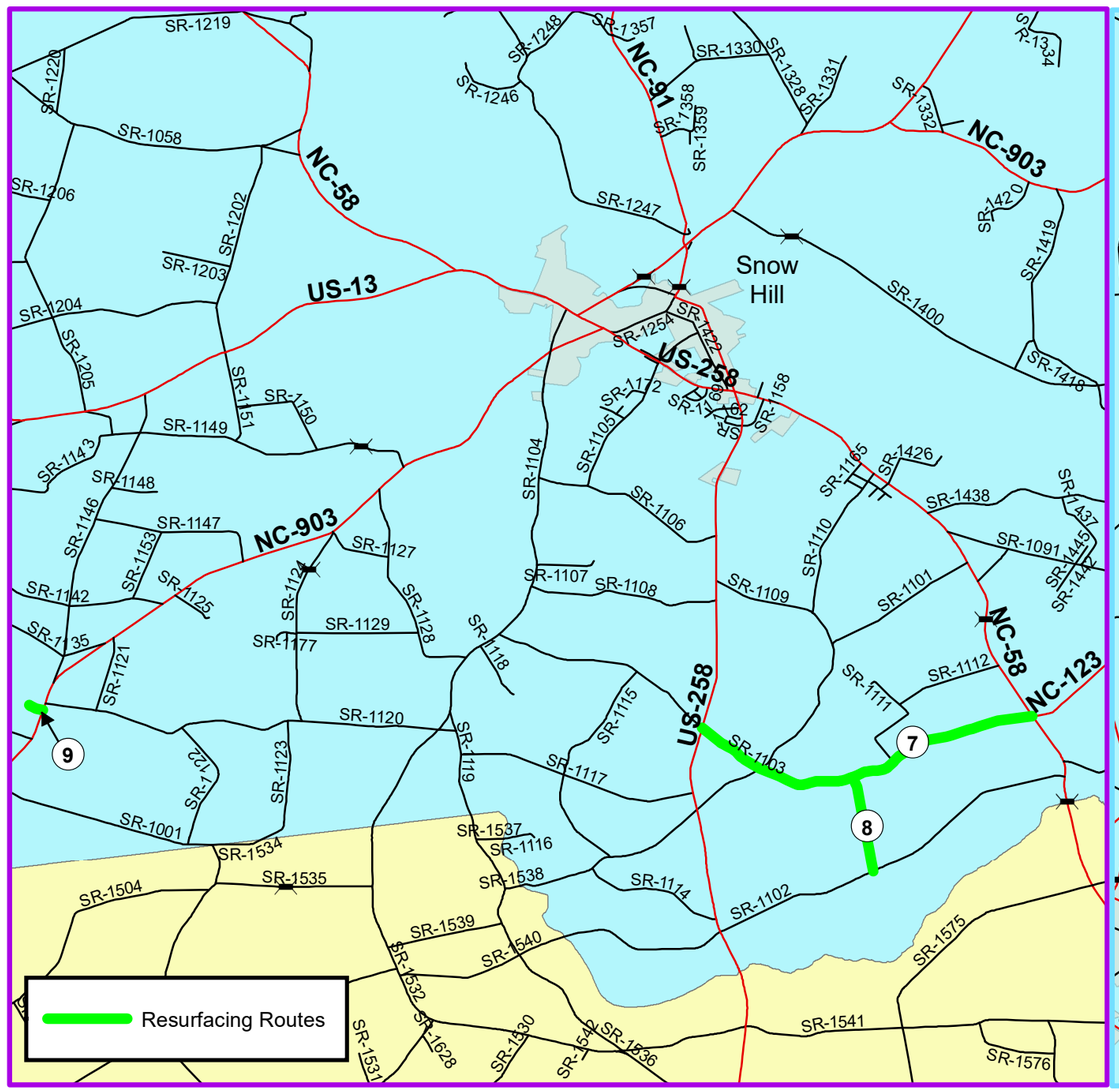
DB00502

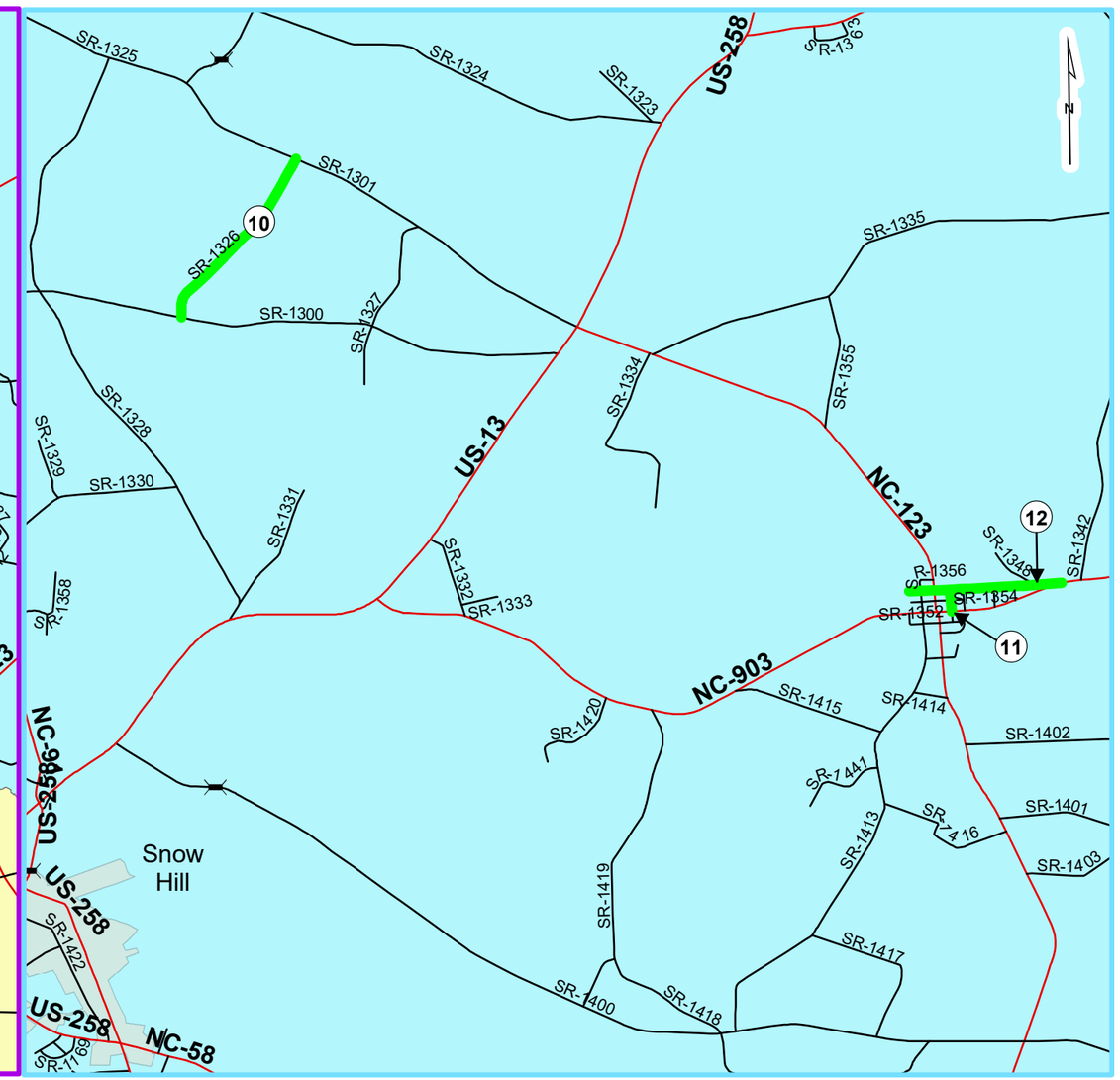
WBS# 2021CPT.02.30.20401
WBS# 2021CPT.02.31.20541

PROJECT REFERENCE NO.	SHEET NO.
DB00502	2

TYPE OF WORK: MILLING, STRENGTHENING, RESURFACING, SHOULDER RECONSTRUCTION

NCDOT
DIVISION 2

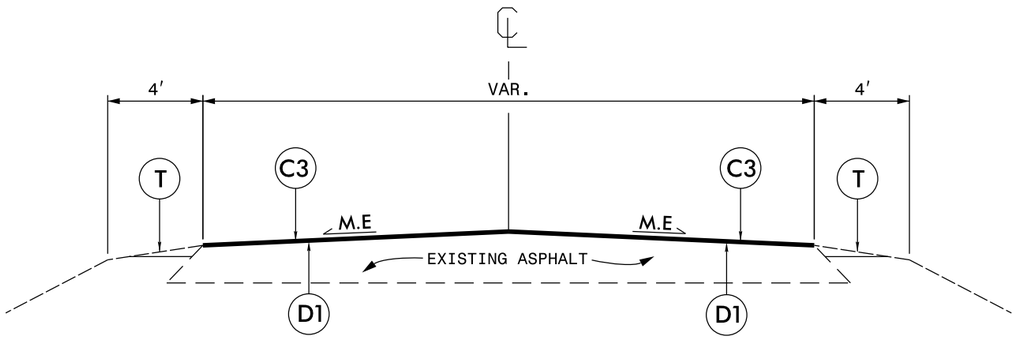




PROJECT REFERENCE NO.	SHEET NO.
DB00502	3

TYPICAL SECTION NO. 1

MAP 1, 10, 12



NOTE:

1. PLACE ASPHALT INTERMEDIATE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
4. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.
5. MAP 12: STRENGTHENING - I19.0C, PLACE ONLY IN SECTION BETWEEN NC 123 AND NC 903. STA. 6+49 - STA. 39+04

PAVEMENT SCHEDULE

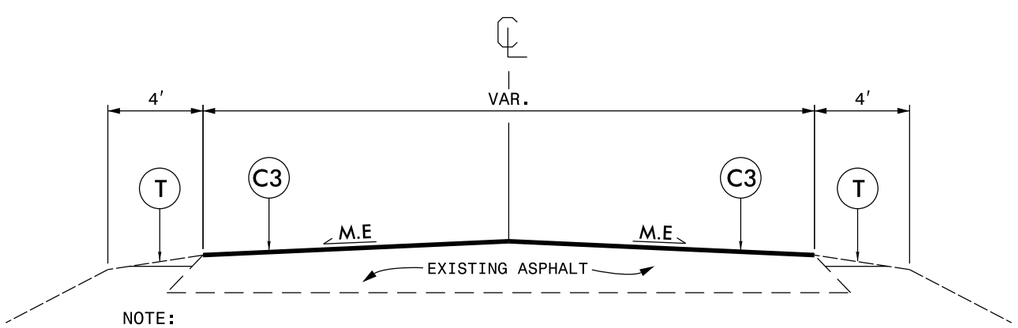
C1	PROP. APPROX. 1" ASPHALT CONCRETE LEVELING COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.75" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING.
V2	MILLING DEPTH 1.5" FOR THE ENTIRE WIDTH OF ROADWAY.
V3	MILLING DEPTH 1.75" FOR THE ENTIRE WIDTH OF ROADWAY.

DRAWINGS NOT TO SCALE

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

TYPICAL SECTION NO. 2

MAP 3, 4, 11, 12

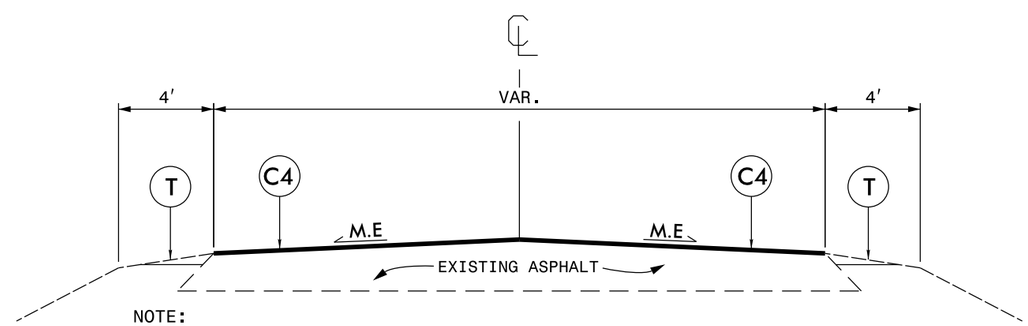


NOTE:

1. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.
2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
3. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

TYPICAL SECTION NO. 3

MAP 2, 7, 8



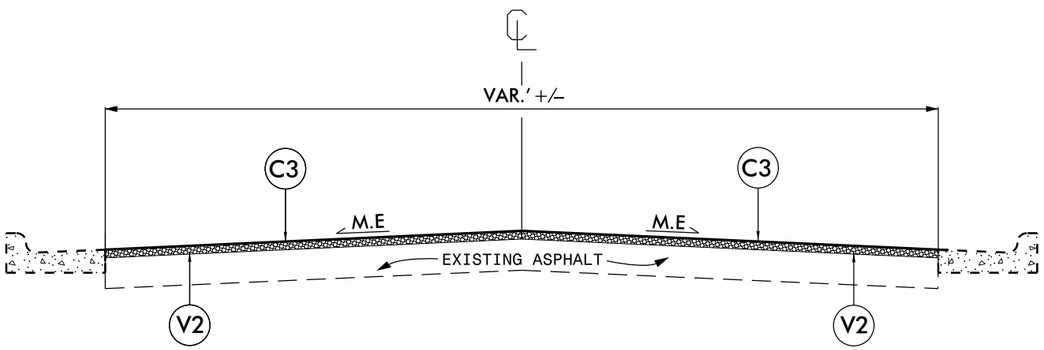
NOTE:

1. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.
2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
3. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.
4. MAP 2, 7, 8: REFER TO SHEET 5 FOR 4" MILL PATCHING LOCATIONS.

PROJECT REFERENCE NO.	SHEET NO.
DB00502	4

TYPICAL SECTION NO. 4

MAP 3 – ENTRANCE /EXIT

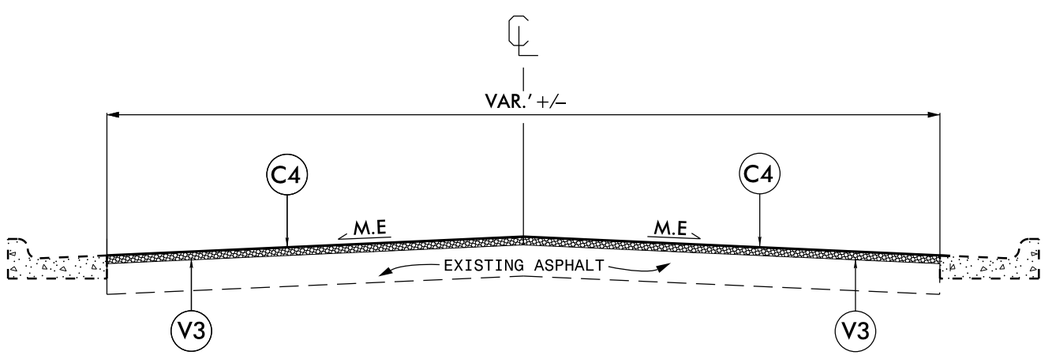


NOTE:

1. INCLUDED MILLING 1.5″ FOR THE ENTIRE WIDTH OF THE ROADWAY, AS DIRECTED BY THE ENGINEER. MILLING TO BE PERFORMED IN CURB AND GUTTER SECTION ONLY STA. 0+00 - STA. 5+82.
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER. SEE DETAIL 1 & 2.

TYPICAL SECTION NO. 5

MAP 6



NOTE:

1. INCLUDED MILLING 1.75″ FOR THE ENTIRE WIDTH OF THE ROADWAY, AS DIRECTED BY THE ENGINEER.
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER. SEE DETAIL 1 & 2.
4. MAP 6 FROM SR 1810 TOWER HILL RD TO NC 11 IS SHOULDER SECTION

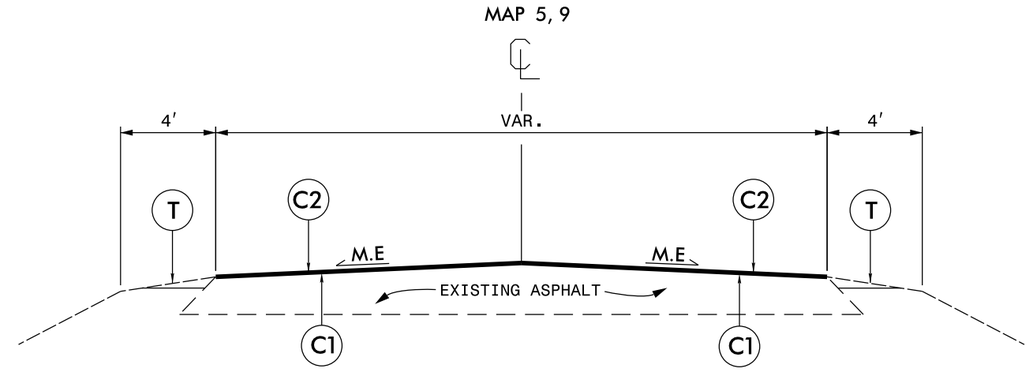
PAVEMENT SCHEDULE

C1	PROP. APPROX. 1″ ASPHALT CONCRETE LEVELING COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C2	PROP. APPROX. 1″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD.
C3	PROP. APPROX. 1.5″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
C4	PROP. APPROX. 1.75″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
D1	PROP. APPROX. 2.5″ ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
T	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING.
V2	MILLING DEPTH 1.5″ FOR THE ENTIRE WIDTH OF ROADWAY.
V3	MILLING DEPTH 1.75″ FOR THE ENTIRE WIDTH OF ROADWAY.
DRAWINGS NOT TO SCALE	

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.

TYPICAL SECTION NO. 6

MAP 5, 9



NOTE:

1. PLACE ASPHALT LEVELING COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
2. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
3. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
4. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00502	5	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0262000000-N HAULING NCDOT SUPPLIED SHOULDER MATERIAL	1220000000-E INCIDENTAL STONE BASE	1245000000-E SHOULDER RECONSTRUCTION	1297000000-E 1½" MILLING	1297000000-E 1.75" MILLING	1330000000-E INCIDENTAL MILLING	1503000000-E INTERMEDIATE COURSE, I19.0C	1519000000-E SURFACE COURSE, S9.5B	1520000000-E LEVELING COURSE, S9.5B	1575000000-E ASPHALT BINDER FOR PLANT MIX	1880000000-E 4" DEPTH MILL PATCHING EXISTING PAVEMENT - B 25.0 C	2800000000-N ADJ. OF CATCH BASIN	2815000000-N ADJ. OF DROP INLET	2830000000-N ADJ. OF MANHOLES	2845000000-N ADJ. OF METER OR VALVE BOX	6000000000-E TEMPORARY SILT FENCE	6071010000-E WATTLE	6084000000-E SEED & MULCHING	6117000000-N RESPONSE FOR EROSION CONTROL
										MI	FT	EA	TONS	SMI	SY	SY	SY	TONS	TONS	TONS	TONS	TON	EA	EA	EA	EA	LF	LF	AC	EA
2021CPT.02.31.20541	Lenoir	1	SR 1114	FROM SR 1113 TO SR 1121	1	2	2WU	NO	NO	3.95	20	237	198	7.90				6,950	4,100		608						100	80	4.94	1
TOTAL FOR MAP NO. 1										**3.95**		**237**	**198**	**7.90**				**6,950**	**4,100**		**608**						**100**	**80**	**4.94**	**1**
2021CPT.02.31.20541	Lenoir	2	SR 1130	FROM SR 1116 TO SR 1141	3	2	2WU	NO	NO	4.81	20	192	240	9.62			500		6,000		402	1,850				2	200	80	6.01	
TOTAL FOR MAP NO. 2										**4.81**		**192**	**240**	**9.62**			**500**		**6,000**		**402**	**1,850**				**2**	**200**	**80**	**6.01**	
2021CPT.02.31.20541	Lenoir	3	SR 1645	FROM US 258 TO CUL-DE-SAC	4,2	2	2WU	NO	NO	0.37	22	25	19	0.58	1,500				525		35					5	40	40	0.46	
TOTAL FOR MAP NO. 3										**0.37**		**25**	**19**	**0.58**	**1,500**				**525**		**35**					**5**	**40**	**40**	**0.46**	
2021CPT.02.31.20541	Lenoir	4	SR 1646	FROM 1645 TO CUL-DE-SAC	2	2	2WU	NO	NO	0.15	22	6	8	0.30					300		20								0.19	
TOTAL FOR MAP NO. 4										**0.15**		**6**	**8**	**0.30**					**300**		**20**								**0.19**	
2021CPT.02.31.20541	Lenoir	5	SR 2004	FROM END MAINTENANCE TO SR 1645	6	2	2WU	NO	NO	0.12	22	5	6	0.24					90	90	12					3			0.15	
TOTAL FOR MAP NO. 5										**0.12**		**5**	**6**	**0.24**					**90**	**90**	**12**					**3**			**0.15**	
2021CPT.02.31.20541	Lenoir	6	SR 1845	FROM CEDAR ST TO NC 11	5	2	2WU	NO	NO	1.13	32					23,000	2,700		2,600		174		1	1	1	1				
TOTAL FOR MAP NO. 6										**1.13**						**23,000**	**2,700**		**2,600**		**174**		**1**	**1**	**1**	**1**				
TOTAL FOR PROJ NO. 2021CPT.02.31.20541										**10.53**		**465**	**471**	**18.64**	**1,500**	**23,000**	**3,200**	**6,950**	**13,615**	**90**	**1,251**	**1,850**	**1**	**1**	**1**	**11**	**340**	**200**	**11.75**	**1**
															24,500															
2021CPT.02.30.20401	Greene	7	SR 1103	FROM US 258 TO NC 58	3	2	2WU	NO	NO	3.07	20	123	154	6.14			500		3,700		248	200					150	120	3.84	1
TOTAL FOR MAP NO. 7										**3.07**		**123**	**154**	**6.14**			**500**		**3,700**		**248**	**200**					**150**	**120**	**3.84**	**1**
2021CPT.02.30.20401	Greene	8	SR 1113	FROM SR 1102 TO SR 1103	3	2	2WU	NO	NO	0.99	20	40	50	1.98					1,200		80	90					100	40	1.24	
TOTAL FOR MAP NO. 8										**0.99**		**40**	**50**	**1.98**					**1,200**		**80**	**90**					**100**	**40**	**1.24**	
2021CPT.02.30.20401	Greene	9	SR 1168	FROM NC 903 TO END MAINTENANCE	6	2	2WU	NO	NO	0.11	20	4	6	0.22					75	75	10								0.14	
TOTAL FOR MAP NO. 9										**0.11**		**4**	**6**	**0.22**					**75**	**75**	**10**								**0.14**	
2021CPT.02.30.20401	Greene	10	SR 1326	FROM SR 1300 TO SR 1301	1	2	2WU	NO	NO	1.16	20	70	58	2.32				2,050	1,200		179						100	40	1.45	
TOTAL FOR MAP NO. 10										**1.16**		**70**	**58**	**2.32**				**2,050**	**1,200**		**179**						**100**	**40**	**1.45**	
2021CPT.02.30.20401	Greene	11	SR 1351	FROM NC 903 TO SR 1354	2	2	2WU	NO	NO	0.12	18	5	6	0.24					150		10								0.15	
TOTAL FOR MAP NO. 11										**0.12**		**5**	**6**	**0.24**					**150**		**10**								**0.15**	
2021CPT.02.30.20401	Greene	12	SR 1354	FROM END MAINTENANCE TO NC 903	1,2	2	2WU	NO	NO	0.75	18	45	38	1.50				1,050	725		99				1	1	50	40	0.94	
TOTAL FOR MAP NO. 12										**0.75**		**45**	**38**	**1.50**				**1,050**	**725**		**99**				**1**	**1**	**50**	**40**	**0.94**	
TOTAL FOR PROJ NO. 2021CPT.02.30.20401										**6.20**		**287**	**312**	**12.40**			**500**	**3,100**	**7,050**	**75**	**626**	**290**			**1**	**1**	**400**	**240**	**7.76**	**1**
GRAND TOTAL										**16.73**		**752**	**783**	**31.04**	**1,500**	**23,000**	**3,700**	**10,050**	**20,665**	**165**	**1,877**	**2,140**	**1**	**1**	**2**	**12**	**740**	**440**	**19.51**	**2**
															24,500															

MAP NO				STATION	STATION	LT	RT
		FULL DEPTH PATCH - B25.0C - 4"					
2				6+43	9+47	7'	
2				9+47	11+03	20'	
2				11+03	11+84		7'
2				11+03	14+02	7'	
2				37+06	39+42	20'	
2				49+77	53+14	7'	
2				71+73	73+91		10'
2				80+53	82+78		10'
2				85+71	90+00	20'	
2				98+22	102+55	20'	
2				112+02	115+15	20'	
2				146+31	148+46		7'
2				148+96	152+07	20'	
2				152+07	154+47		7'
2				160+52	162+83		7'
2				166+50	168+54	20'	
2				183+83	185+80		7'
2				189+47	191+71		10'
2				193+70	198+41	20'	
7				0+68	1+31	10'	
7				19+29	19+66	10'	
7				30+51	32+81	11'	
7				82+39	85+31		10'
7				90+74	91+74	10'	
8				0+00	0+97	21.5'	
8				1+45	1+83	7'	
8				10+85	11+57	7'	

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00502	6	

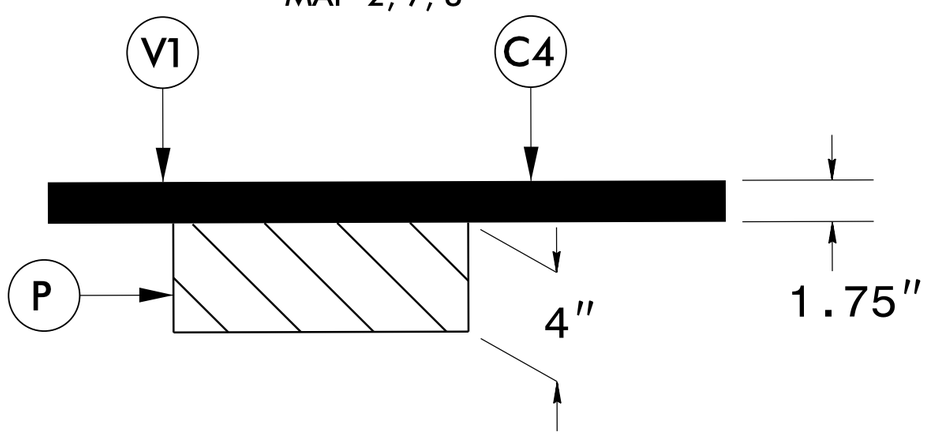
TRAFFIC CONTROL

										4413000000-E	4457000000-N
PROJECT NO	**COUNTY**	**MAP NO**	**ROUTE**	**DESCRIPTION**	**TYP NO**	**LANES**	**LANE TYPE**	**LENGTH**	**WIDTH**	**WORK ZONE ADVANCE/GENERAL WARNING SIGNING**	**TEMPORARY TRAFFIC CONTROL**
								MI	**FT**	**SF**	**LS**
2021CPT.02.31.20541	Lenoir	1	SR 1114	FROM SR 1113 TO SR 1121	1	2	2WU	3.95	20	450	0.23
TOTAL FOR MAP NO. 1								**3.95**		**450**	**0.23**
2021CPT.02.31.20541	Lenoir	2	SR 1130	FROM SR 1116 TO SR 1141	3	2	2WU	4.81	20	540	0.28
TOTAL FOR MAP NO. 2								**4.81**		**540**	**0.28**
2021CPT.02.31.20541	Lenoir	3	SR 1645	FROM US 258 TO CUL-DE-SAC	4,2	2	2WU	0.37	22	50	0.02
TOTAL FOR MAP NO. 3								**0.37**		**50**	**0.02**
2021CPT.02.31.20541	Lenoir	4	SR 1646	FROM 1645 TO CUL-DE-SAC	2	2	2WU	0.15	22	20	0.01
TOTAL FOR MAP NO. 4								**0.15**		**20**	**0.01**
2021CPT.02.31.20541	Lenoir	5	SR 2004	FROM END MAINTENANCE TO SR 1645	6	2	2WU	0.12	22	20	0.01
TOTAL FOR MAP NO. 5								**0.12**		**20**	**0.01**
2021CPT.02.31.20541	Lenoir	6	SR 1845	FROM CEDAR ST TO NC 11	5	2	2WU	1.13	32	130	0.07
TOTAL FOR MAP NO. 6								**1.13**		**130**	**0.07**
TOTAL FOR PROJ NO. 2021CPT.02.31.20541								**10.53**		**1,210**	**0.62**
2021CPT.02.30.20401	Greene	7	SR 1103	FROM US 258 TO NC 58	3	2	2WU	3.07	20	350	0.18
TOTAL FOR MAP NO. 7								**3.07**		**350**	**0.18**
2021CPT.02.30.20401	Greene	8	SR 1113	FROM SR 1102 TO SR 1103	3	2	2WU	0.99	20	110	0.06
TOTAL FOR MAP NO. 8								**0.99**		**110**	**0.06**
2021CPT.02.30.20401	Greene	9	SR 1168	FROM NC 903 TO END MAINTENANCE	6	2	2WU	0.11	20	20	0.01
TOTAL FOR MAP NO. 9								**0.11**		**20**	**0.01**
2021CPT.02.30.20401	Greene	10	SR 1326	FROM SR 1300 TO SR 1301	1	2	2WU	1.16	20	130	0.07
TOTAL FOR MAP NO. 10								**1.16**		**130**	**0.07**
2021CPT.02.30.20401	Greene	11	SR 1351	FROM NC 903 TO SR 1354	2	2	2WU	0.12	18	20	0.01
TOTAL FOR MAP NO. 11								**0.12**		**20**	**0.01**
2021CPT.02.30.20401	Greene	12	SR 1354	FROM END MAINTENANCE TO NC 903	1,2	2	2WU	0.75	18	125	0.05
TOTAL FOR MAP NO. 12								**0.75**		**125**	**0.05**
TOTAL FOR PROJ NO. 2021CPT.02.30.20401								**6.20**		**755**	**0.38**
GRAND TOTAL								**16.73**		**1,965**	**1**

PAVEMENT SCHEDULE	
C4	PROP. APPROX. 1.75″ ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.
V1	INCIDENTAL MILLING
P	4″ DEPTH MILL PATCHING W/ B 25.0C
DRAWINGS NOT TO SCALE	

4″ DEPTH MILL PATCHING DETAIL

MAP 2, 7, 8



NOTE:

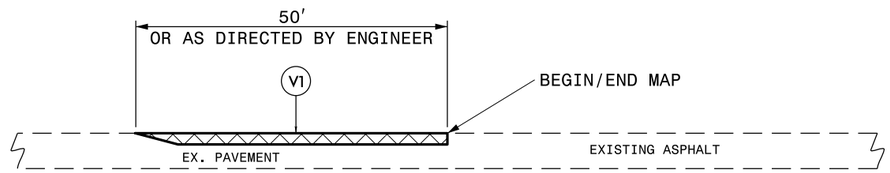
1. THE CONTRACTOR SHALL PERFORM ANY UNIFORM OR INCIDENTAL MILLING AT TIE-INS BEFORE PERFORMING THE 4″ DEPTH MILL PATCHING.

2. THE CONTRACTOR SHALL PERFORM THE MILL PATCHING REMOVAL AND REPLACEMENT IN THE SAME DAY.

3. 4″ DEPTH MILL PATCHING SHALL BE PERFORMED AT LOCATIONS AS SHOWN ON SHEET 5, AND AS DIRECTED BY THE ENGINEER.

PROJECT REFERENCE NO.	SHEET NO.
DB00502	DIV2-1

MILLING TYPICALS

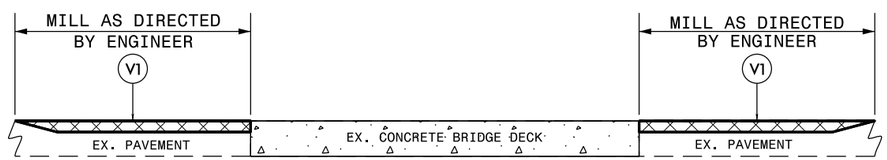


DETAIL 1

BEGIN/END MAP TIE-IN

NOTE:

1. MILLING SHALL BE PERFORMED AT MAIN LINE TIE-INS AND Y-LINE TIE-INS AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.

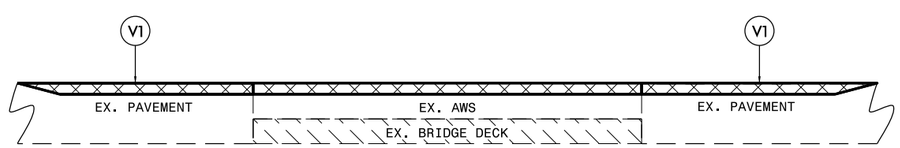


DETAIL 2

BRIDGE MILLING

NOTE:

1. MILLING SHALL BE PERFORMED AT THE BRIDGE APPROACHES AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



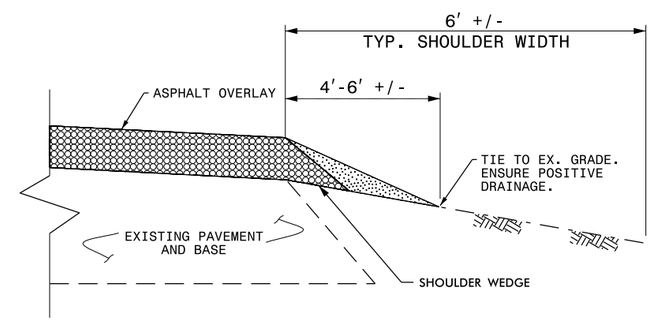
DETAIL 3

BRIDGE MILLING

NOTE:

1. INCLUDES MILLING FOR THE ENTIRE WIDTH OF THE BRIDGE WEARING SURFACE, AS DIRECTED BY THE ENGINEER.

SHOULDER RECONSTRUCTION TYPICAL



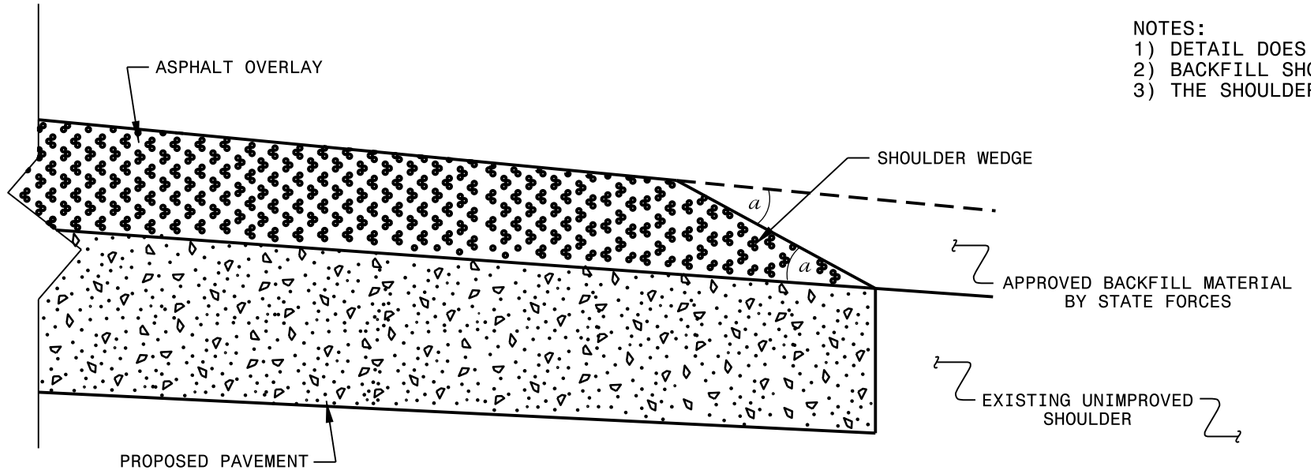
SHOULDER RECONSTRUCTION DETAIL

NOTE:

1. SHOULDERS SHALL BE RECONSTRUCTED AS SHOWN IN STD. DWG. NO. 560.01 & 560.02, WITH A MINIMUM SLOPE OF 1" PER FOOT TO ENSURE POSITIVE DRAINAGE AWAY FROM THE ROADWAY.
2. A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED AREA ALONG THE EDGE OF PAVEMENT AND THE DITCH SHOULDER POINT TO MINIMIZE EROSION. PULLING DITCHES OR CUTTING SHOULDERS TO GENERATE BORROW MATERIAL WILL NOT BE ALLOWED.
3. REQUIRED BORROW MATERIAL MAY BE OBTAINED FROM NCDOT STOCKPILES. ANY EXCESS MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN APPROVED DISPOSAL SITE.

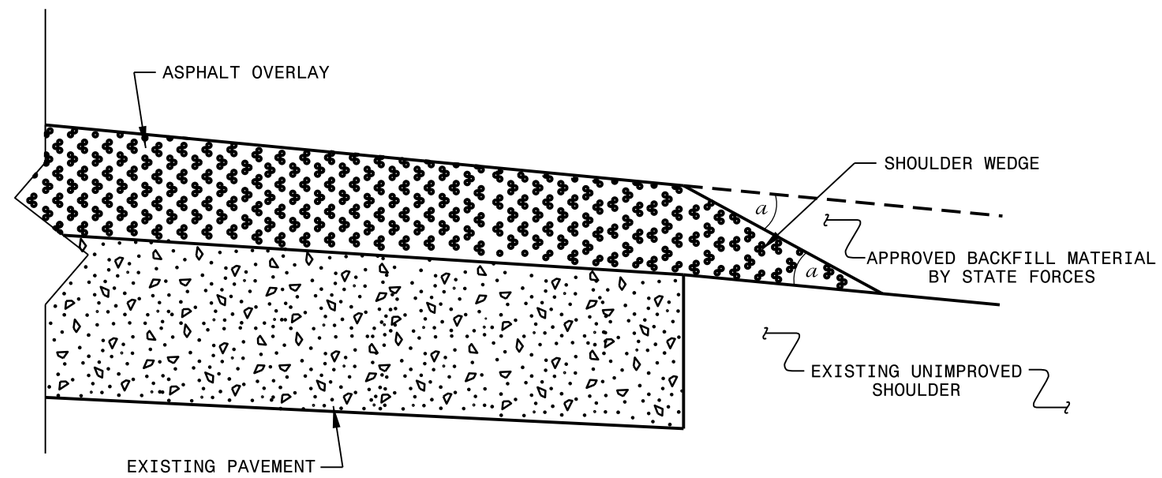
PROJECT REFERENCE NO.	SHEET NO.
DB00502	DIV2-2

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.



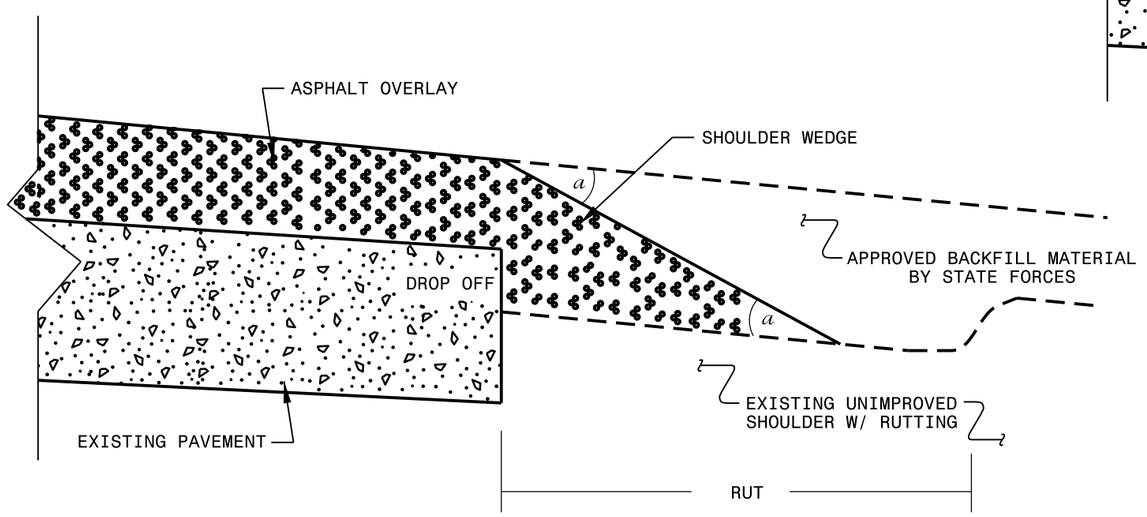
SHOULDER WEDGE DETAIL

(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

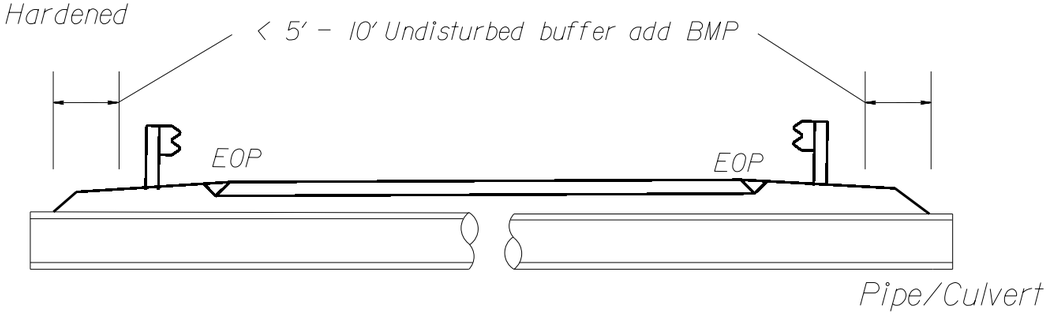
ORIGINAL BY: T.SPELL DATE: 7-19-11
MODIFIED BY: DATE: 10/16/12
CHECKED BY: DATE:
FILE SPEC.: s:\usr/detafls/stand/shoulderwedgedetail.dgn

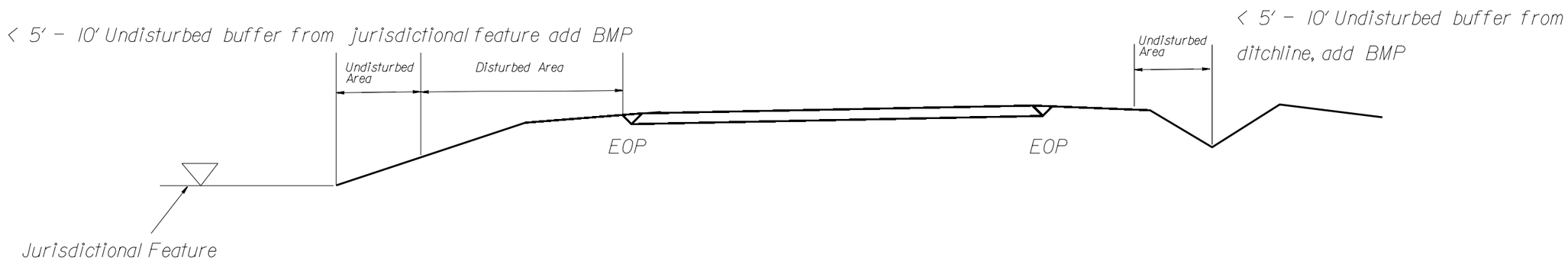
PROJECT REFERENCE NO.	SHEET NO.
DB00502	EC-1

NOTES: Less than 5' - 10' undisturbed buffer from ROW, ditchline, water feature, or drainage inlet, add BMP.

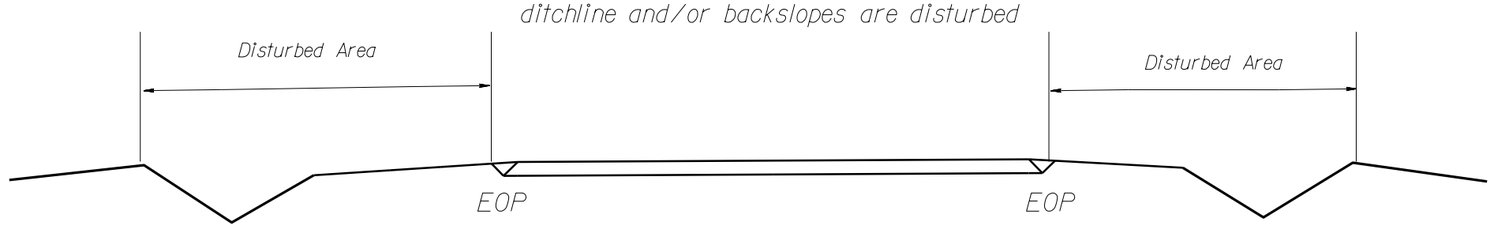
BMP Options: Wattle, Silt Fence or Hardened Aggregate.

EROSION CONTROL DETAIL

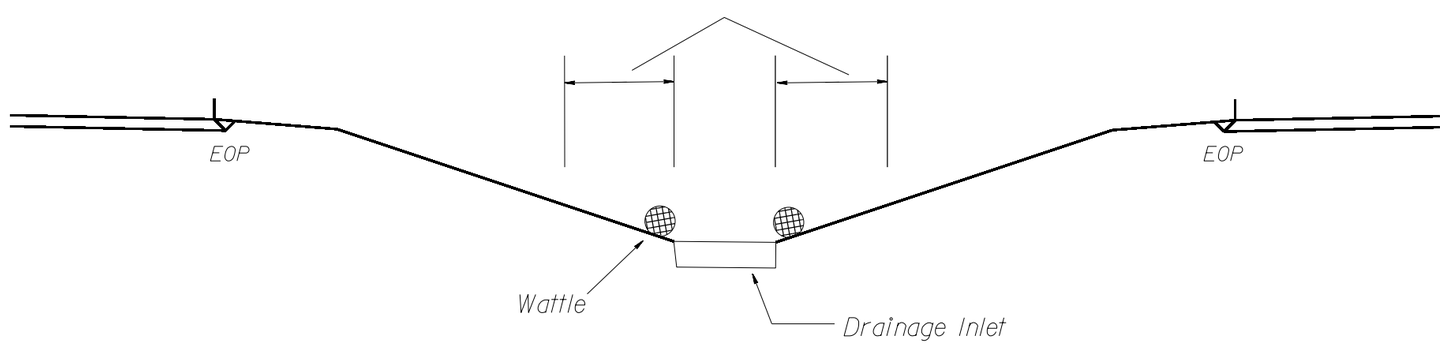




Use BMP's if shoulders and/or frontslopes and/or ditchline and/or backslopes are disturbed



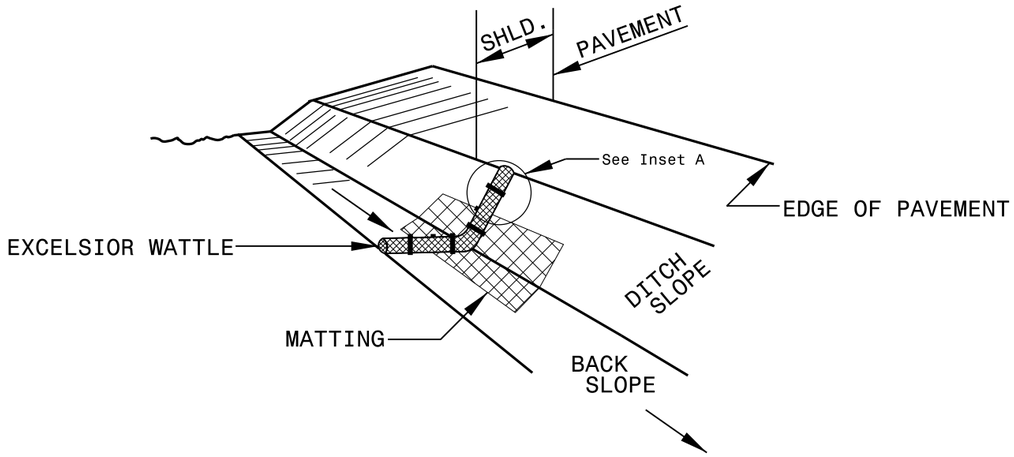
< 5' - 10' Undisturbed buffer from inlet, add wattle



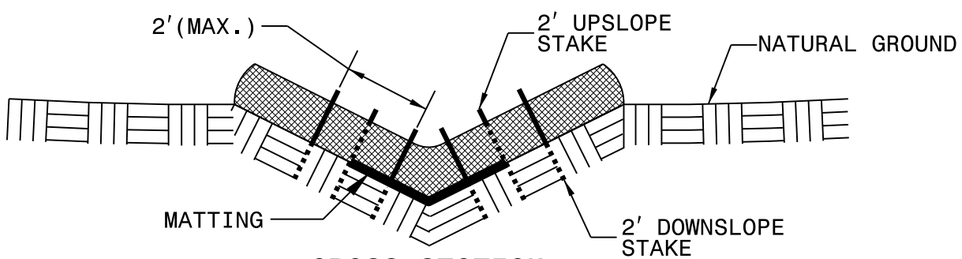
NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
DB00502	EC-2

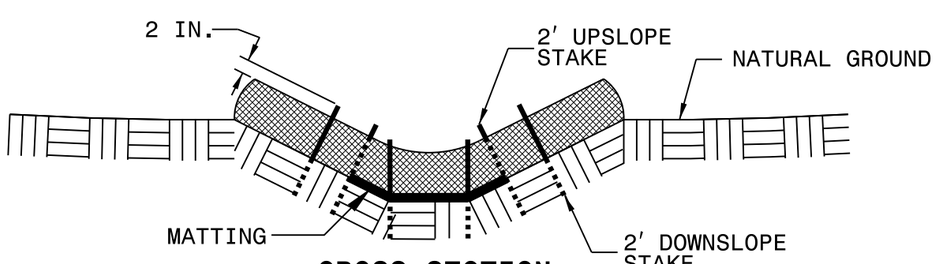
WATTLE DETAIL



ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

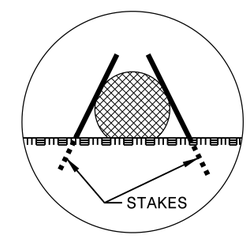
ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

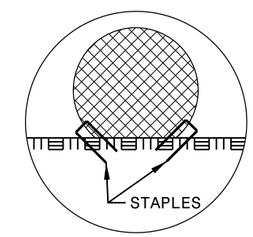
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12″ IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

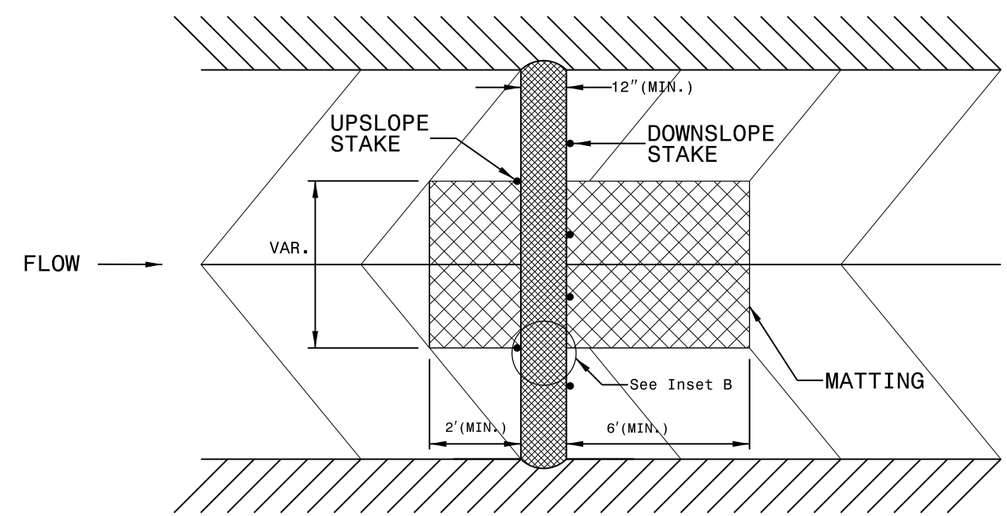
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.



INSET A



INSET B

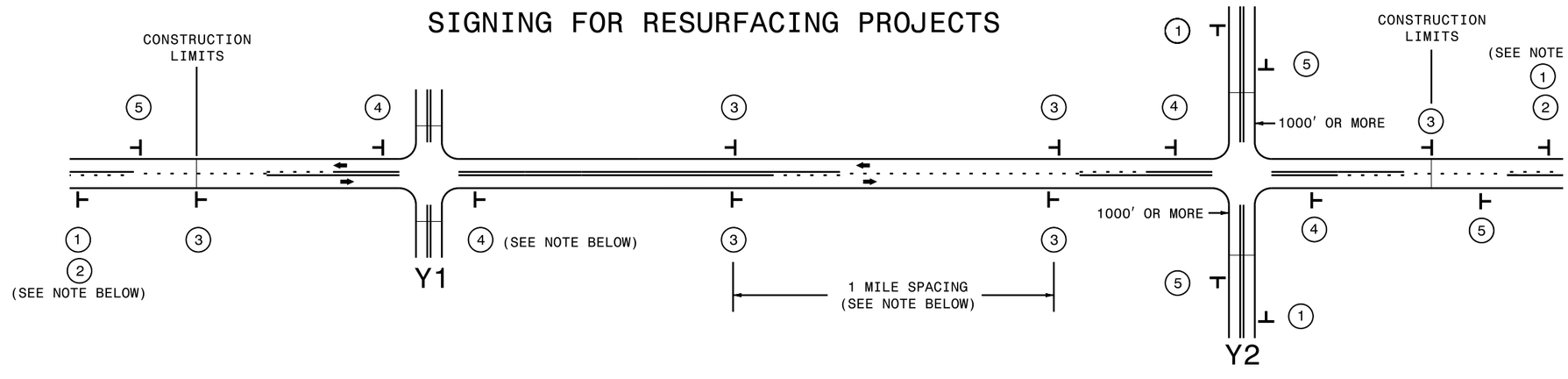


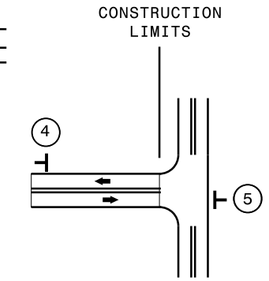
TOP VIEW

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
DB00502	TCP-1

SIGNING FOR RESURFACING PROJECTS





TEE INTERSECTION

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 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.

-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.

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

RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS