

CARTERET & CRAVEN COUNTY DB00512

WBS# 2022CPT.02.07.10161 WBS# 2022CPT.02.08.10251 WBS# 2022CPT.02.09.20161 NCDOT

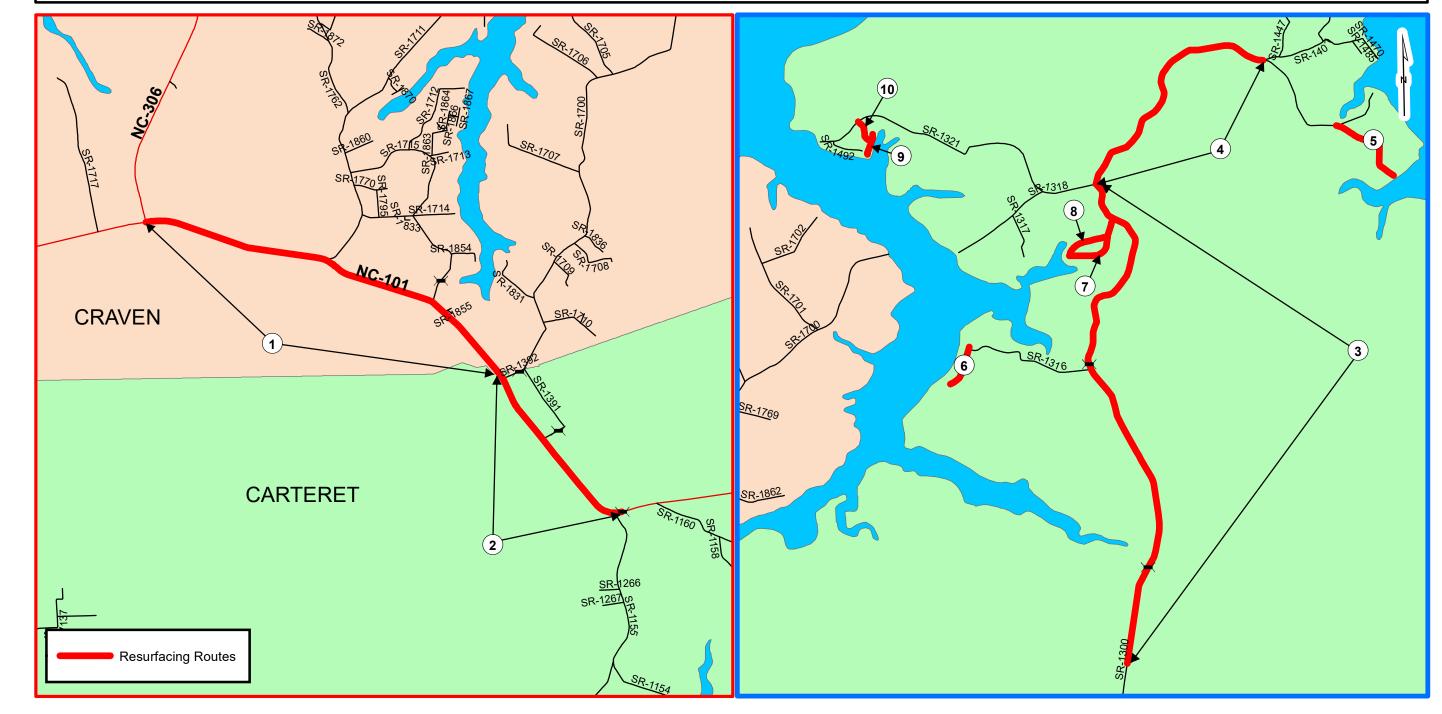
DIVISION 2

SHEET NO.

PROJECT REFERENCE NO.

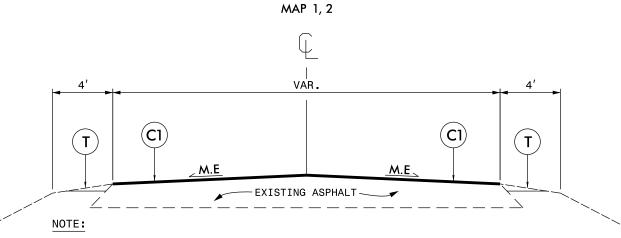
DB00512

TYPE OF WORK: STRENGTHENING, RESURFACING, SHOULDER RECONSTRUCTION



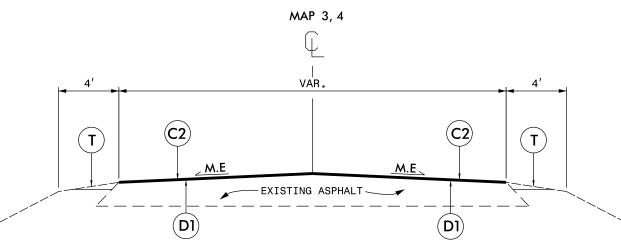
PROJECT REFERENCE NO.	SHEET NO.
DB005I2	2

TYPICAL SECTION NO. 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. 2



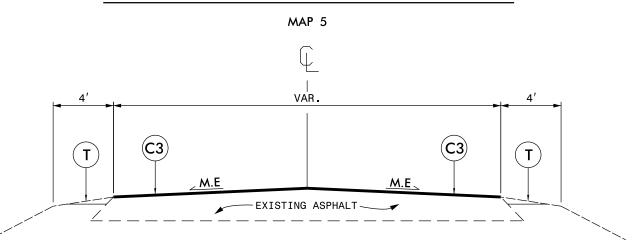
NOTE:

- 1. PERFORM 4" DEPTH MILL PATCHING AT LOCATIONS AND WIDTHS AS SHOWN ON SHEET 4.
- 2. PLACE ASPHALT LEVELING COURSE AT LOCATIONS AND WIDTHS AS SHOWN ON SHEET 4.
- PLACE ASPHALT INTERMEDIATE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
- 4. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT.
- INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
- 6. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

	PAVEMENT SCHEDULE					
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168.0 LBS. PER SQ. YD.					
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165.0 LBS. PER SQ. YD.					
С3	PROP. APPROX. 1.75" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.					
C4	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, IN TWO LIFTS AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER LIFT.					
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285.0 LBS. PER SQ. YD.					
Т	T SHOULDER RECONSTRUCTION					
V1 INCIDENTAL MILLING						
DRAWINGS NOT TO SCALE						

NOTE: PAVEMENT EDGE SLOPES ARE I: IUNLESS SHOWN OTHERWISE.

TYPICAL SECTION NO. 3

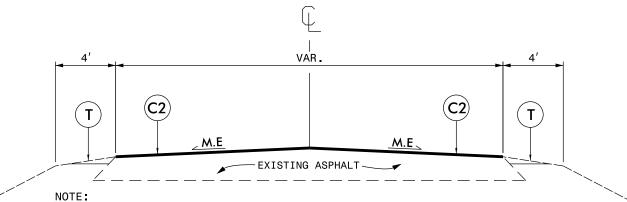


NOTE:

- 1. PERFORM 4" DEPTH MILL PATCHING AT LOCATIONS AND WIDTHS AS SHOWN ON SHEET 4.
- PLACE ASPHALT SURFACE COURSE AT FULL WIDTH OF EXISTING ASPHALT PAVEMENT, AS DIRECTED BY THE ENGINEER.
- 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.

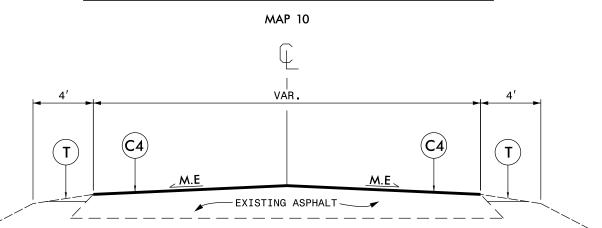
TYPICAL SECTION NO. 4

MAP 6, 7, 8, 9



- 1. PERFORM 4" DEPTH MILL PATCHING AT LOCATIONS AND WIDTHS AS SHOWN ON SHEET 4.
- 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.
- 4. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

TYPICAL SECTION NO. 5



- NOTE:
- 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.

PROJECT REFERENCE NO.	SHEET NO.
DB005I2	3

	PAVEMENT SCHEDULE						
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168.0 LBS. PER SQ. YD.						
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165.0 LBS. PER SQ. YD.						
С3	PROP. APPROX. 1.75" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 192.5 LBS. PER SQ. YD.						
C4	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, IN TWO LIFTS AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER LIFT.						
D1	PROP. APPROX. 2.5" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285.0 LBS. PER SQ. YD.						
Т	T SHOULDER RECONSTRUCTION						
V1 INCIDENTAL MILLING							
DRAWINGS NOT TO SCALE							

NOTE: PAVEMENT EDGE SLOPES ARE I: IUNLESS SHOWN OTHERWISE.

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00512	4	

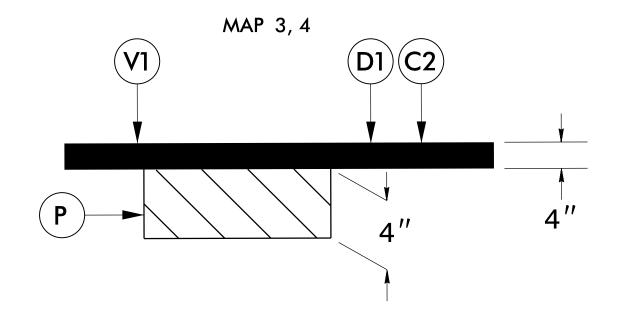
SUMMARY OF QUANTITIES

											0262000000-N	1220000000-E	1245000000-E	1330000000-E	1503000000-E	1519000000-E	1523000000-E	1575000000-E	1880	000000-E	600000000-E	6071010000-E	6084000000-E	6117000000-N	4413000000-E	4457000000-N
PROJECT NO	COUNTY MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL	WARM MIX	LENGTH	WIDTH	HAULING	INCIDENTAL	SHOULDER	INCIDENTAL	INTERMEDIATE	SURFACE	SURFACE	ASPHALT	ASPHALT	4" DEPTH MILL	TEMPORARY	WATTLE	SEED &	RESPONSE FOR	WORK ZONE	TEMPORARY
							SURFACE	ASPHALT			NCDOT	STONE BASE	RECONSTRUCTION	MILLING	COURSE, 119.0C	COURSE, S9.5B	COURSE, S9.5C	BINDER FOR	LEVELING	PATCHING	SILT FENCE		MULCHING	EROSION	ADVANCE/GENERAL	TRAFFIC
							TESTING	REQUIRED			SUPPLIED							PLANT MIX	COURSE,	EXISTING				CONTROL	WARNING SIGNING	CONTROL
							REQUIRED				SHOULDER								119.0C	PAVEMENT -						
											MATERIAL									B25.0 C						
									MI	FT	EA	TONS	SMI	SY	TONS	TONS	TONS	TONS	TON	TON	LF	LF	AC	EA	SF	LS
2022CPT.02.08.10251		NC 101	FROM NC 306 TO CARTERET COUNTY	1	2	2WU	NO	NO	4.20	28	168	210	8.40	1,250			6,400	384			200	120	5.25	1	475	0.25
	TOTAL FOR MAP	NO. 1							4.20		168	210	8.40	1,250			6,400	384			200	120	5.25	1	475	0.25
TOTAL	FOR PROJ NO. 20220	PT.02.08.10251							4.20		168	210	8.40	1,250			6,400	384			200	120	5.25	1	475	0.25
										l	<u> </u>					<u> </u>					<u> </u>	<u> </u>				1
			FROM CRAVEN COUNTY TO					ı		1				I						1					I	
2022CPT.02.07.10161	Carteret 2	NC 101	HARLOWE CREEK BRIDGE #10	1	2	2WU	NO	NO	2.25	29	90	113	4.50	1,250			3.500	210			100	60	2.81		260	0.13
2022CF1.02.07.10101	TOTAL FOR MAP		HARLOWE CREEK BRIDGE #10	1		2000	NO	NO	2.25	23	90	113	4.50	1,250			3,500	210	1		100	60	2.81		260	0.13
-		-		 	1				2.25		90	113	4.50	1,250		 	3,500	210	 	1	100	60	2.81	 	260	0.13
TOTAL	FOR PROJ NO. 20220	PT.02.07.10161							2.23	1	— 30	113	7.50	1,230			3,300		—	1	100		2.02		200	0.13
					1	1	1		1		1	1	1	ı	ı	1	1	1	1	1	1	1	1	1	ı	1
			FROM NELSON BAY RD TO SR 1318 S																							
2022CPT.02.09.20161	Carteret 3	SR 1300 MERRIMON RD	RIVER RD	2	2	2WU	NO	NO	5.36	22	322	268	10.72	1,500	8,600	5,300		771	60	725	300	160	6.70	1	600	0.30
	TOTAL FOR MAP	NO. 3							5.36		322	268	10.72	1,500	8,600	5,300		771	60	725	300	160	6.70	1	600	0.30
			FROM SR 1300 MERRIMON RD TO SR																							
2022CPT.02.09.20161	Carteret 4	SR 1318 S RIVER RD	1407 VILLAGE DR	2	2	2WU	NO	NO	2.34	22	140	117	4.68	500	4,500	2,700		397		1,550	150	80	2.93		265	0.14
	TOTAL FOR MAP	NO. 4							2.34		140	117	4.68	500	4,500	2,700		397		1,550	150	80	2.93		265	0.14
			FROM SR 1318 S RIVER RD TO DEAD																							
2022CPT.02.09.20161		SR 1319 BIG CREEK RD	END	3	2	2WU	NO	NO	0.78	18	31	39	1.56			825		55		60	100	40	0.98		90	0.05
	TOTAL FOR MAP	NO. 5							0.78		31	39	1.56			825		55		60	100	40	0.98		90	0.05
					_																					
2022CPT.02.09.20161		SR 1477 THURMAN RD	FROM CUL-DE-SAC TO DEAD END	4	2	2WU	NO	NO	0.43	20	17	22	0.86			450		30		90			0.54		50	0.03
	TOTAL FOR MAP	NO. 6	EDONA CD 4400 IONIA OLUNIC DD TO CD						0.43		17	22	0.86			450		30		90			0.54		50	0.03
2022CPT.02.09.20161	Cortoret 7	SR 1487 CUMMINS CREEK RD	FROM SR 1488 JONAQUINS DR TO SR 1300 MERRIMON RD	۱ ,	2	2WU	NO	NO	0.65	20	26	33	1.30	600		675		45			100	20	0.81		75	0.04
2022CP1.02.09.20161	TOTAL FOR MAP		1300 MERRIMON RD	4	2	ZWU	NU	NU	0.65	20	26 26	33	1.30	600		675		45 45			100	20 20	0.81		75 75	0.04
-	TOTAL FOR WAP	NO. 7	FROM CUL-DE-SAC TO SR 1487		 		-		0.05	-	20	33	1.30	800		0/3		43	+	1	100	20	0.01	-	/3	0.04
2022CPT.02.09.20161	Carteret 8	SR 1488 JONAQUINS DR	CUMMINS CREEK RD	4	2	2WU	NO	NO	0.43	20	17	22	0.86			475		32	1			ĺ	0.54		50	0.03
2022011.02.03.20101	TOTAL FOR MAP		COMMINS CREEKING	-		2000	INO	INO	0.43	20	17	22	0.86			475		32	 				0.54		50	0.03
									00			 	0.00					†	1		1	1		1		
2022CPT.02.09.20161	Carteret 9	SR 1490 SANDY HUSS DR	FROM CUL-DE-SAC TO CUL-DE-SAC	4	2	2WU	NO	NO	0.27	20	11	14	0.54	1,000		280		19	1				0.34		30	0.02
	TOTAL FOR MAP		, , , , , , , , , , , , , , , , , , , ,						0.27		11	14	0.54	1,000		280		19	1		1	1	0.34	1	30	0.02
			FROM SR 1490 SANDY HUSS DR TO																	1					-	
2022CPT.02.09.20161	Carteret 10	SR 1491 HIDDEN HARBOR LN	SR 1321 4-H RD	5	2	2WU	NO	NO	0.24	20	10	12	0.48	500		375		25	1				0.30		30	0.01
TOTAL FOR MAP NO. 10 0.24			10	12	0.48	500		375		25					0.30		30	0.01								
TOTAL FOR PROJ NO. 2022CPT.02.09.20161 10.50 574 527 21.00 4,100 13,100		13,100	11,080		1,374	60	2,425	650	300	13.13	1	1,190	0.62													
IUIAL	FOR PROJ NO. 2022C	F1.UZ.U3.ZU101																	2	2,485						
	<u> </u>																									
	GRAND TOTA								16.95		832	850	33.90	6,600	13,100	11,080	9,900	1,968	60	2,425	950	480	21.19	2	1,925	1
	GIAND IOIA	-		1	1			l		l	1		1						2	2,485		1		1		

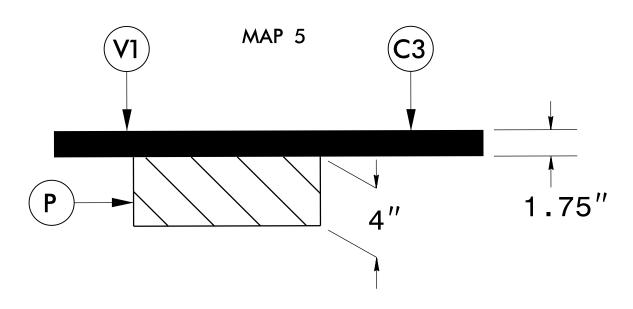
MAP NO	4" DEPTH MILL PATCH - B25.0C	STATION	STATION	LT	RT
3		14+85	17+27	7'	
3		140+04	146+26	7'	
3		222+15	231+17	7'	
3		243+40	247+52	7'	
3		264+20	274+77		7'
3		273+39	277+15	7'	
3		280+31	283+00		7'
4		0+00	35+20		7'
4		19+34	38+61	7'	
4		39+69	50+60		7'
4		44+97	50+60	7'	
4		53+82	60+90	7'	
4		58+00	59+50		7'
4		111+63	113+33		7'
4		107+31	108+98		7'
5		1+58	3+97		7'
5		38+85	39+11	1	8'
6		12+67	13+88		7'
6		13+64	14+16	10'	
6		16+52	17+01	2	0'
6	_	19+10	19+54	2	0'
	4" LEVELING COURSE - I19.0C				
3	_	50+47	51+36	11.5'	
3	-	53+60	54+62	11.5'	

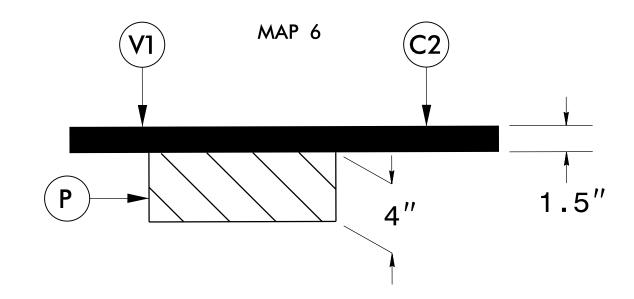
DB00512 SHEET NO.

4" DEPTH MILL PATCHING DETAIL



	PAVEMENT SCHEDULE									
C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 165.0 LBS. PER SQ. YD.									
С3	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 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.									
V1	INCIDENTAL MILLING									
Р	4" DEPTH MILL PATCHING W/ B 25.0C									
	DRAWINGS NOT TO SCALE									



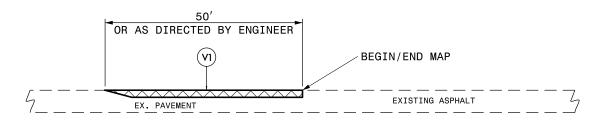


NOTE:

- 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 4, AND AS DIRECTED BY THE ENGINEER.

PROJECT REFERENCE NO.	SHEET NO.
DB00512	DIV2-I

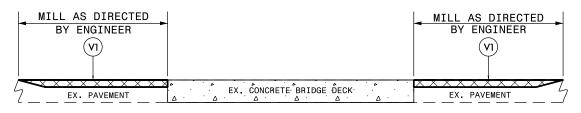
MILLING TYPICALS



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.

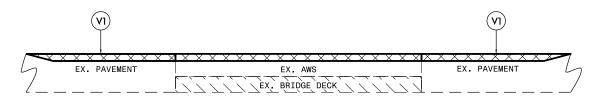


DETAIL 2

BRIDGE MILLING

NOTE:

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

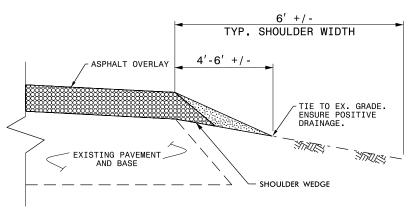


DETAIL 3 BRIDGE MILLING

NOTE:

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

SHOULDER RECONSTRUCTION TYPICAL



SHOULDER RECONSTRUCTION DETAIL

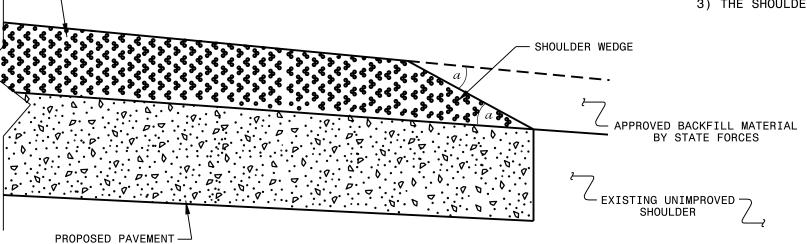
NOTE:

- 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.
 A VEGETATIVE BUFFER SHALL BE MAINTAINED BETWEEN THE DISTURBED
- 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.



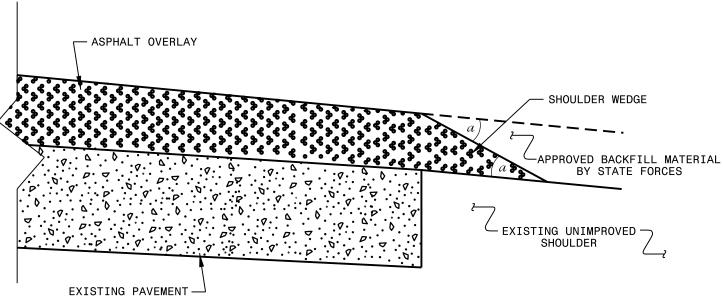


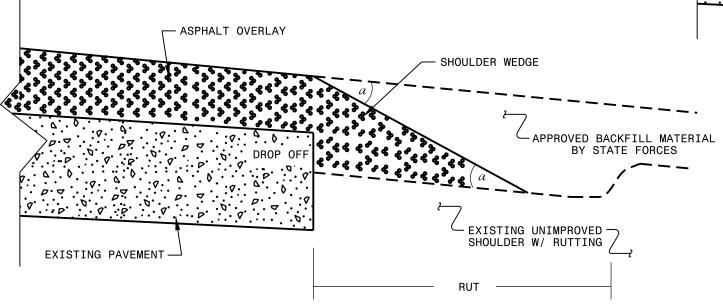
- 1) DETAIL DOES NOT APPLY TO OGAFC AND ULTRA-THIN BONDED WEARING COURSE.
- 2) BACKFILL SHOULDER WITH APPROVED MATERIAL.
- 3) THE SHOULDER WEDGE DEVICE MAY BE DISENGAGED AT PAVED DRIVEWAYS AND SIDE STREETS.



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 ANGLE = 30°

CONTRACT STANDARDS AND DEVELOPMENT UNIT Office 919-707-6950 FAX 919-250-4119

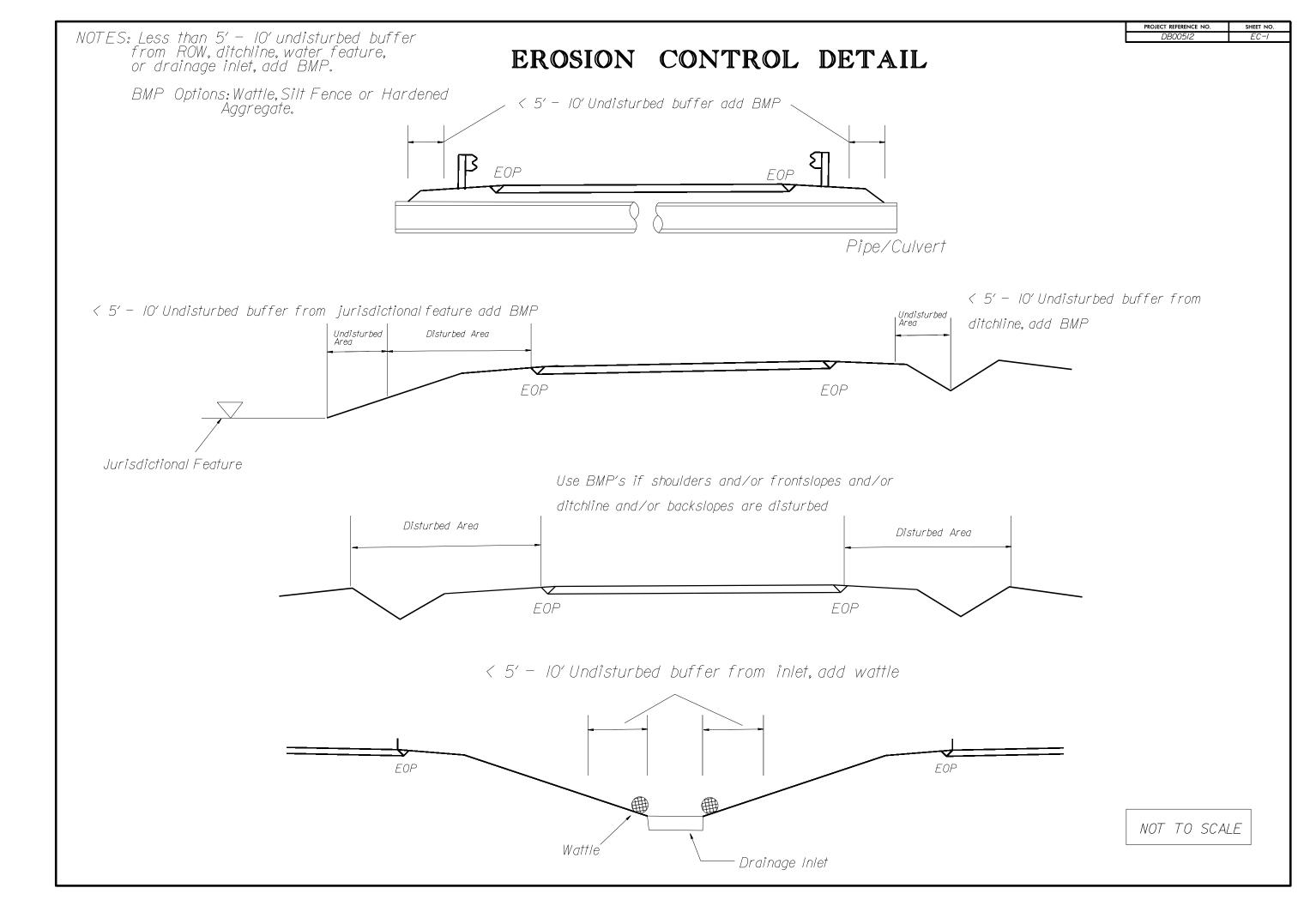
SHOULDER WEDGE **DETAILS**

ORIGINAL BY:	T. SPELL	DATE: _	7-19-11
MODIFIED BY:		DATE:	10/16/12
CHECKED BY:_		DATE:	
FILE SPEC s	usr/details/stand/shou	lderwedged	detail don

- ASPHALT OVERLAY

(Resurfacing Adjacent to Rutted Shoulder)

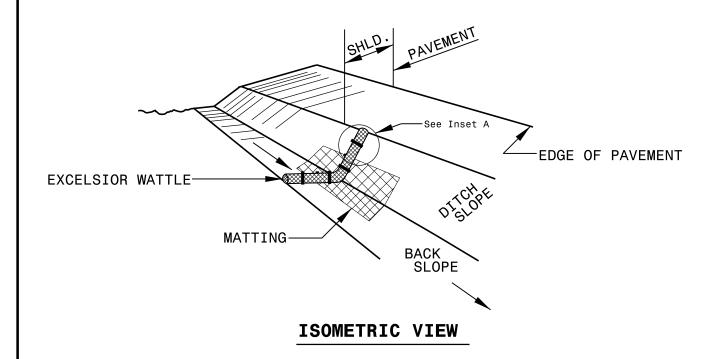
SHOULDER WEDGE DETAIL

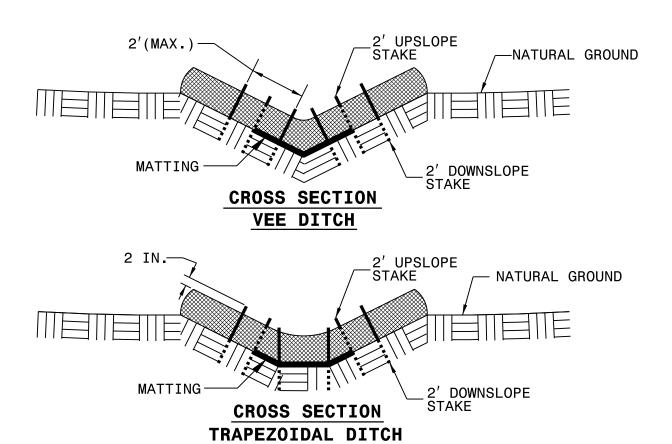


PROJECT REFERENCE NO. SHEET NO.

DB00512 FC-2

WATTLE DETAIL





NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.

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

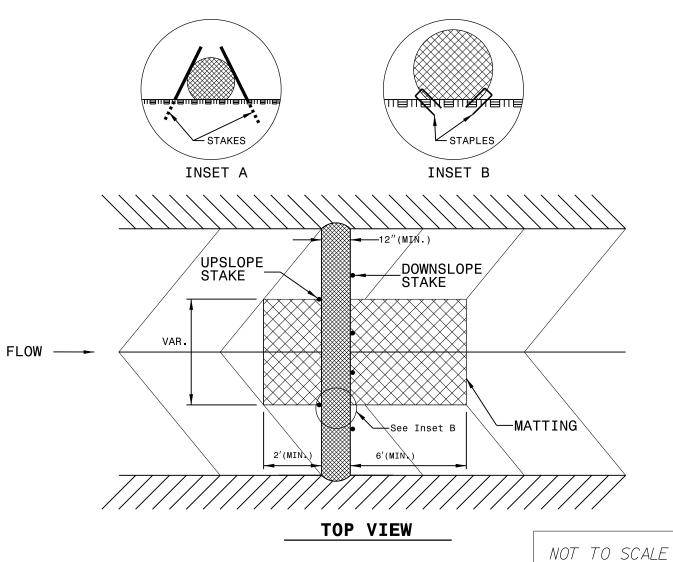
 $\underline{\text{ONLY}}$ INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

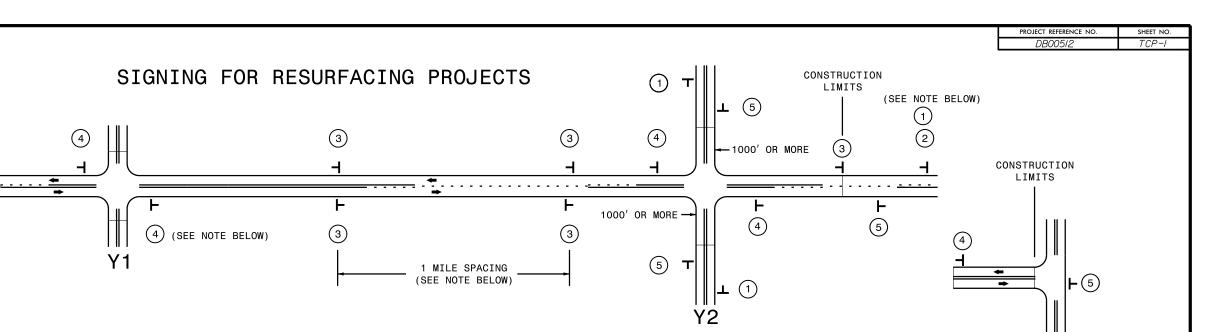
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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.





LEGEND

├ STATIONARY SIGN

◆ DIRECTION OF TRAFFIC FLOW

CONSTRUCTION

LIMITS

(3)

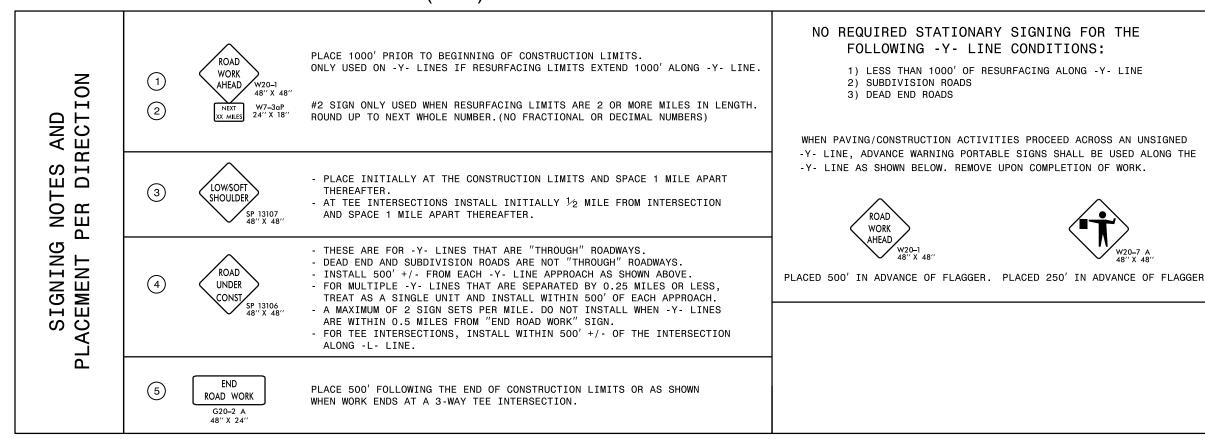
(5)

(2)

(SEE NOTE BELOW)

MAINLINE (-L-) SIGNING

-Y- LINE SIGNING





RESURFACING
ADVANCE WARNING SIGNS
FOR
RURAL AND SUBURBAN
2 LANE ROADWAYS

TEE INTERSECTION