

### STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

ROY COOPER
GOVERNOR

J. ERIC BOYETTE
SECRETARY

February 17, 2021

CONTRACT: DB00505

WBS ELEMENT: 2021CPT.02.34.20541

COUNTY: LENOIR

ROUTE: VARIOUS SECONDARY ROUTES

DESCRIPTION: MILLING, STRENGTHENING, RESURFACING, AND

SHOULDER RECONSTRUCTION OF DETOUR ROUTES OF

**B-5619 IN LENOIR COUNTY** 

### **ADDENDUM 1**

TO: PROSPECTIVE BIDDERS

Map 4 (SR 1389 – Hardy Bridge Road) resurfacing has been removed from this contract. Please note the following revisions to the proposal.

- Revised Notes to Contractors on Page 24 of the proposal removing references to Map 4.
- Clarification on the 4" Mill Patching Payment stating that this item includes the asphalt binder on Page 31 of the proposal.
- Revision to the project plans removing Map 4.
- Please see the attached page A1-A13
- A revised electronic file has been uploaded to bid express named DB00505.001.

Please make sure to sign the addendum page in the proposal to acknowledge this addendum.

Telephone: (252) 439-2828

Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:

1037 W.H. SMITH BLVD.

GREENVILLE, NC 27834

Due to COVID-19, I am working remotely. If you need to contact me, please email at mmoore@ncdot.gov.

Sincerely,

DocuSigned by:
Mary Voelker Moore
714C11DCCEBC4C6...

Mary Voelker Moore, PE Division Contract Engineer

cc: Mr. Jeremy Stroud, PE

Ms. Mary Beth Houston, PE

Mr. Cadmus Capehart, PE

Ms. Heather Lane, PE

Mr. Aaron Bullard, PE

Mr. Jeff Cabaniss, PE

#### **PROJECT SPECIAL PROVISIONS**

### **ROADWAY**

### **NOTE TO CONTRACTOR**

Map # 1 (SR 1300) includes the resurfacing of Bridge # 44 with 2.5" of ACIC, Type I19.0C and 1.5" of ACSC, Type S9.5C as shown on Typical Section #1.

Map # 2 (SR 1311) includes the resurfacing of Bridge # 49 with 1.5" of ACSC, Type S9.5C. Contractor shall taper the Intermediate Course to existing asphalt before and after bridge as determined by the Engineer.

### SHOULDER RECONSTRUCTION PER SHOULDER MILE:

(11-16-10) (Rev. 8-21-12) 560 SP1 R07AR (Rev)

### **Description**

This work consists of reconstructing each shoulder (including median shoulders as applicable) in accordance with Standard Drawing No. 560.01 and 560.02 of the 2018 Roadway Standard Drawings except that the rate of slope and width will be as shown on typical section, or to the existing shoulder point, whichever is nearer, as long as the desired typical is achieved, and when completed, seeding and mulching. This work shall be performed immediately after the resurfacing operations are complete as directed by the Engineer.

This project will require the removal of excess material from the existing pavement by mechanical means prior to paving routes. Excess material generated by clipping excessive shoulder material from the existing pavement will be required to be removed by the Contractor. The Contractor should take care in removing excessive material from the existing pavement to minimize the amount of disturbance to adjacent established vegetation. There will be no direct payment for the removal of any excess material generated from the existing pavement as this work shall be considered incidental to the asphalt pavement line items that correspond with that map.

Quantities for Shoulder Reconstruction are included to address drop off issues identified by the Engineer after paving is completed. Shoulder Reconstruction shall not be performed unless directed by the Engineer.

### **Materials**

The NCDOT will furnish all earth material necessary for the construction of the shoulders at the Lenoir County Jones Pitt located across from 2992 NC 903 in LaGrange.

**B.** 95 / 90 denotes that 95% of the coarse aggregate has one fractured face and 90% has 2 or more fractured faces.

### **4" MILL PATCHING:**

### **Description**

The Contractor's attention is directed to the fact that there are areas of existing pavement on this project that will require repair prior to resurfacing. 4" mill patch the areas that, in the opinion of the Engineer, need repairing. The areas for 4" mill patching will be delineated by the Engineer prior to the Contractor performing repairs.

### Materials

The 4" mill patching consists of Asphalt Concrete Base Course, Type B25.0C

#### **Construction Methods**

Work shall be performed by a milling machine for 4" mill patching operations at the depth, width and locations as shown in the plan sheets in accordance with Section 607-3 and 610-9 of the 2018 Standard Specifications.

Schedule operations so that all areas where 4" mill patching has been performed will be repaired on the same day and all lanes of traffic restored.

#### **Measurement and Payment**

4" Mill Patching will be measured and paid as the actual number of tons of Asphalt Concrete Base Course, Type B25.0C in place that has been used to make completed and accepted repairs. The asphalt plant mixed material will be measured by being weighed in trucks on certified platform scales or other certified weighing devices. The unit price will be full compensation for all work covered by this provision, including but not limited to removal and disposal of all types of pavement; removal and disposal of all types of sub grade material; furnishing and applying tack coat; furnishing, placing, and compacting of asphalt plant mix. This item includes the asphalt binder.

Payment will be made under:

Pay Item
Generic Paving Item (4" Mill Patching
With Asphalt Conc Base Course, Type B25.0C)

Pay Unit
Ton

#### PORTLAND CEMENT CONCRETE PRODUCTION AND DELIVERY:

(9-15-20) 1000, 1014, 1024

SP10 R01

Revise the 2018 Standard Specifications as follows:

**Page 10-6, Table 1000-1, REQUIREMENTS FOR CONCRETE**, replace with the following:

### TABLE 1000-1 REQUIREMENTS FOR CONCRETE

Feb 17, 2021<u>D1343</u>03505

ITEMIZED PROPOSALAFOR CONTRACT NO. DB00505

LENOIR Page 1 of 1

County: Lenoir

Line #	Item Number	Sec #	Description	Quantity	Unit Cost	Amount
		R	COADWAY ITEMS			
0001	0000100000-N	800	MOBILIZATION	Lump Sum	L.S.	
0002	0262000000-N	SP	GENERIC GRADING ITEM HAULING NCDOT SUPPLIED SHOULDE R MATERIAL	421 EA		
0003	1220000000-E	545	INCIDENTAL STONE BASE	350 TON		
0004	1245000000-E	 SP	SHOULDER RECONSTRUCTION	14.02		
				SMI		
0005	133000000-Е	607	INCIDENTAL MILLING	2,150		
				SY		
0006	1491000000-E	610	ASPHALT CONC BASE COURSE, TYPE B25.0C	6,550 TON		
0007	1503000000-E	610	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	14,300 TON		
0008	1523000000-E	610	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	8,000 TON		
0009	1575000000-E	620	ASPHALT BINDER FOR PLANT MIX	1,460 TON		
0010	1880000000-E	SP	GENERIC PAVING ITEM 4" DEPTH MILL PATCHING EXISTIN G PAVEMENT B 25.0 C	575 TON		
0011	4413000000-E	SP	WORK ZONE ADVANCE/GENERAL WARNING SIGNING	825 SF		
0012	4457000000-N	SP	TEMPORARY TRAFFIC CONTROL	Lump Sum	L.S.	
0013	6000000000-E	1605	TEMPORARY SILT FENCE	900 LF		
0014	6071010000-E	SP	WATTLE	400 LF		
0015	6084000000-E	1660	SEEDING & MULCHING	8.77 ACR		
0016	6117000000-N	SP	RESPONSE FOR EROSION CONTROL	1 EA		

DB00505

GREENE

JONES

BEAUFORT

CRAVEN PAMLICO

DIVISION 2

CARTERET

A4

**LENOIR COUNTY** 

**DB00505** 

WBS# 2021CPT.02.34.20541

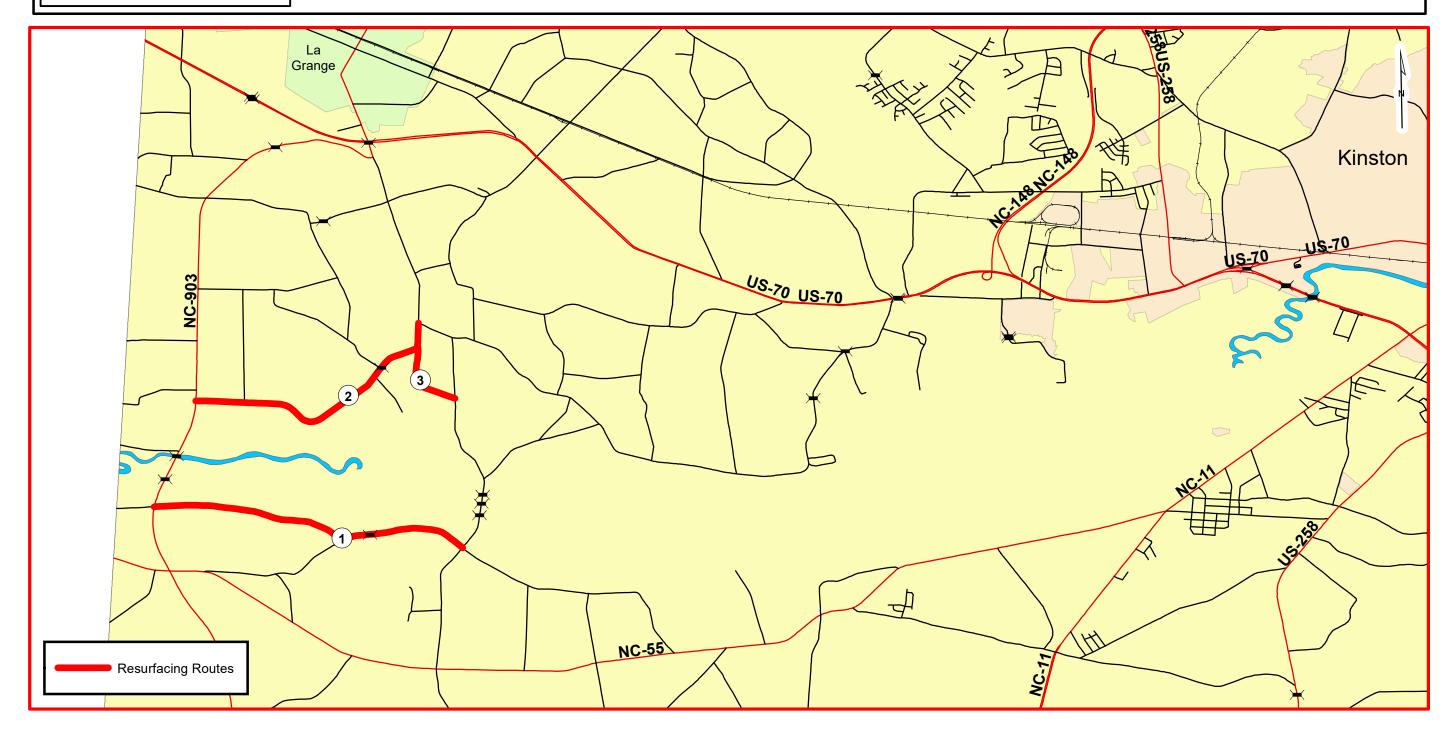
PROJECT REFERENCE NO. SHEET NO. DB00505 1



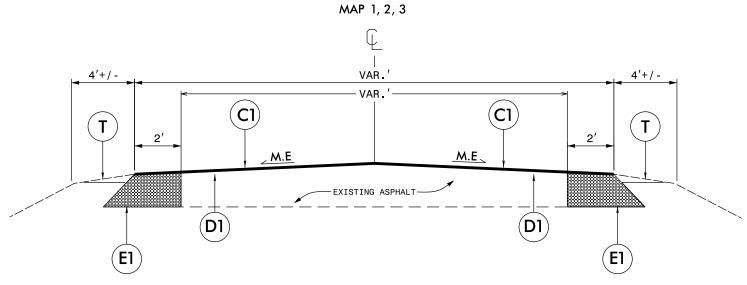
LENOIR

NCDOT DIVISION 2





### TYPICAL SECTION NO. 1



### NOTE:

- 1. PLACE ASYMMETRICAL WIDENING, AS DIRECTED BY THE ENGINEER. MAKE FLUSH WITH THE EXISTING ASPHALT.
- 2. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE AND Y-LINE SECTIONS, AS DIRECTED BY THE ENGINEER.
- 3. PLACE ASPHALT INTERMEDIATE COURSE AT FULL WIDTH, INCLUDING NEW WIDENING
- 4. PLACE ASPHALT SURFACE COURSE AT FULL WIDTH, INCLUDING NEW WIDENING.
- 5. PERFORM SHOULDER RECONSTRUCTION AFTER PAVING IS COMPLETED.

	PAVEMENT SCHEDULE					
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 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.					
E1	PROP. APPROX. 6" ASPHALT CONCRETE BASE COURSE, TYPE B25.OC AT AN AVERAGE RATE OF 684 LBS. PER SQ. YD.					
Т	SHOULDER RECONSTRUCTION					
V1	INCIDENTAL MILLING.					
	DRAWINGS NOT TO SCALE					

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

DB00505 A6

	LENOIR	
PROJECT NO.	SHEET NO.	TOTAL NO.
DB00505	3	

### SUMMARY OF QUANTITIES

												0262000000-N	122000000-E	1245000000-E	133000000-E	1491000000-E	1503000000-E	1523000000-E	1575000000-E	188000000-E	600000000-E	6071010000-E	6084000000-E	6117000000-N
PROJECT NO	COUNTY	Y MAP	NO ROUTE	DESCRIPTION	TYP NO	LANES	LANE	FINAL	WARM MIX	LENGTH	WIDTH	HAULING	INCIDENTAL	SHOULDER	INCIDENTAL	BASE COURSE,	INTERMEDIATE	SURFACE	ASPHALT	4" DEPTH MILL	TEMPORARY	WATTLE	SEED &	RESPONSE FOR
							TYPE	SURFACE	ASPHALT			NCDOT	STONE BASE	RECONSTRUCTION	MILLING	B25.0C	COURSE, I19.0C	COURSE, S9.5C	BINDER FOR	PATCHING EXISTING	SILT FENCE		MULCHING	EROSION
								TESTING	REQUIRED			SUPPLIED							PLANT MIX	PAVEMENT - B 25.0 C				CONTROL
								REQUIRED	)			SHOULDER												
												MATERIAL												
										MI	FT	EA	TONS	SMI	SY	TONS	TONS	TONS	TONS	TON	LF	LF	AC	EA
2021CPT.02.34.20	541 Lenoir	1	SR 1300 DAVIS HARDY RD	FROM NC 903 TO SR 1389	1	2	2WU	NO	NO	3.30	18	198	165	6.60	1,250	3,400	6,800	3,800	707		500	200	4.13	1
	TOTAL	FOR MA	P NO. 1							3.30		198	165	6.60	1,250	3,400	6,800	3,800	707		500	200	4.13	1
2021CPT.02.34.20	541 Lenoir	2	SR 1311 BEAR CREEK RD	FROM NC 903 TO SR 1309	1	2	2WU	NO	NO	2.58	18	155	129	5.16	400	2,850	5,400	3,000	567	575	300	160	3.23	
	TOTAL	FOR MA	P NO. 2							2.58		155	129	5.16	400	2,850	5,400	3,000	567	575	300	160	3.23	
2021CPT.02.34.20	541 Lenoir	3	SR 1309 JENNY LIND RD	FROM SR 1389 TO SR 1324	1	2	2WU	NO	NO	1.13	17	68	56	2.26	500	300	2,100	1,200	186		100	40	1.41	
	TOTAL	FOR MA	P NO. 3							1.13		68	56	2.26	500	300	2,100	1,200	186		100	40	1.41	
TO1	AL FOR PROJ	NO. 202	1CPT.02.34.20541							7.01		421	350	14.02	2,150	6,550	14,300	8,000	1,460	575	900	400	8.77	1
	GR	RAND TO	ΓAL							7.01		421	350	14.02	2,150	6,550	14,300	8,000	1,460	575	900	400	8.77	1

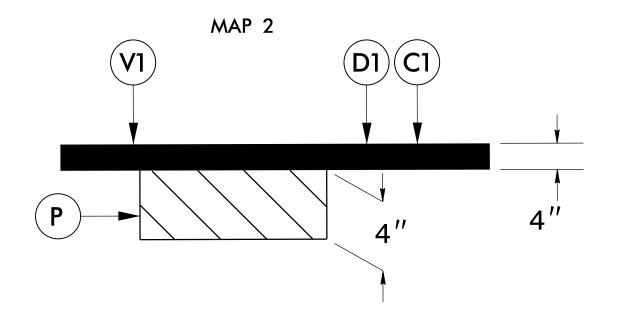
MAP	7' FULL DEPTH PATCH - B25.0C - 4"	STATION	STATION	LT	RT
2		37+96	40+20		224'
2		54+36	55+02		66'
2		60+62	62+01	139'	
2		67+98	68+84	86' FUL	L WIDTH
2		71+08	74+79		371'
2		81+62	86+35		473'
2		86+35	87+59	124' FU	LL WIDTH
2		90+19	91+25	106'	
2		92+05	92+74	69'	
2		95+02	100+02		500'
2	_	95+16	97+32	216'	
2	_	127+03	131+04		441'
2	_	130+13	131+04	91'	

PROJECT NO.	SHEET NO.	TOTAL NO.
DB00505	4	

### TRAFFIC CONTROL

										4413000000-E	4457000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE	LENGTH	WIDTH	WORK ZONE	TEMPORARY
							TYPE			ADVANCE/GENERAL	TRAFFIC
										WARNING SIGNING	CONTROL
								MI	FT	SF	LS
2021CPT.02.34.20541	Lenoir	1	SR 1300 DAVIS HARDY RD	FROM NC 903 TO SR 1389	1	2	2WU	3.30	18	375	0.47
	TOTAL F	OR MAP NO	0. 1					3.30		375	0.47
2021CPT.02.34.20541	Lenoir	2	SR 1311 BEAR CREEK RD	FROM NC 903 TO SR 1309	1	2	2WU	2.58	18	300	0.37
	TOTAL F	OR MAP NO	0. 2					2.58		300	0.37
2021CPT.02.34.20541	Lenoir	3	SR 1309 JENNY LIND RD	FROM SR 1389 TO SR 1324	1	2	2WU	1.13	17	150	0.16
	TOTAL F	OR MAP NO	0. 3					1.13		150	0.16
TOTAL F	OR PROJ N	IO. 2021CP	T.02.34.20541					7.01		825	1.00
	GRA	ND TOTAL						7.01		825	1

### 4" DEPTH MILL PATCHING DETAIL

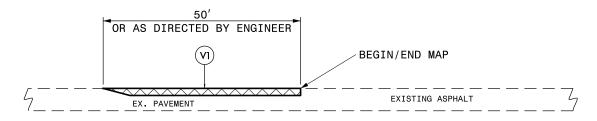


	PAVEMENT SCHEDULE					
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.					
D1	PROP. APPROX. 2 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.					
V1	INCIDENTAL MILLING					
Р	4" DEPTH MILL 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 3, AND AS DIRECTED BY THE ENGINEER.

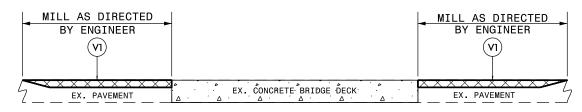
## MILLING TYPICALS



### DETAIL 1 BEGIN/END MAP TIE-IN

#### NOTE:

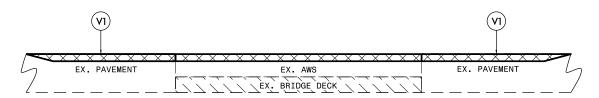
1. MILLING SHALL BE PERFORMED AT MAIN LINE TIE-INS AND Y-LINE TIE-INS AS DIRECTED BY THE ENGINEER, IN ACCORDANCE WITH THIS DETAIL.



### DETAIL 2 BRIDGE MILLING

### NOTE:

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

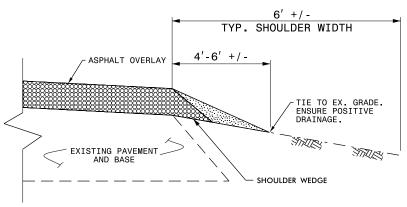


### DETAIL 3 BRIDGE MILLING

#### NOTE:

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

# SHOULDER RECONSTRUCTION TYPICAL



### SHOULDER RECONSTRUCTION DETAIL

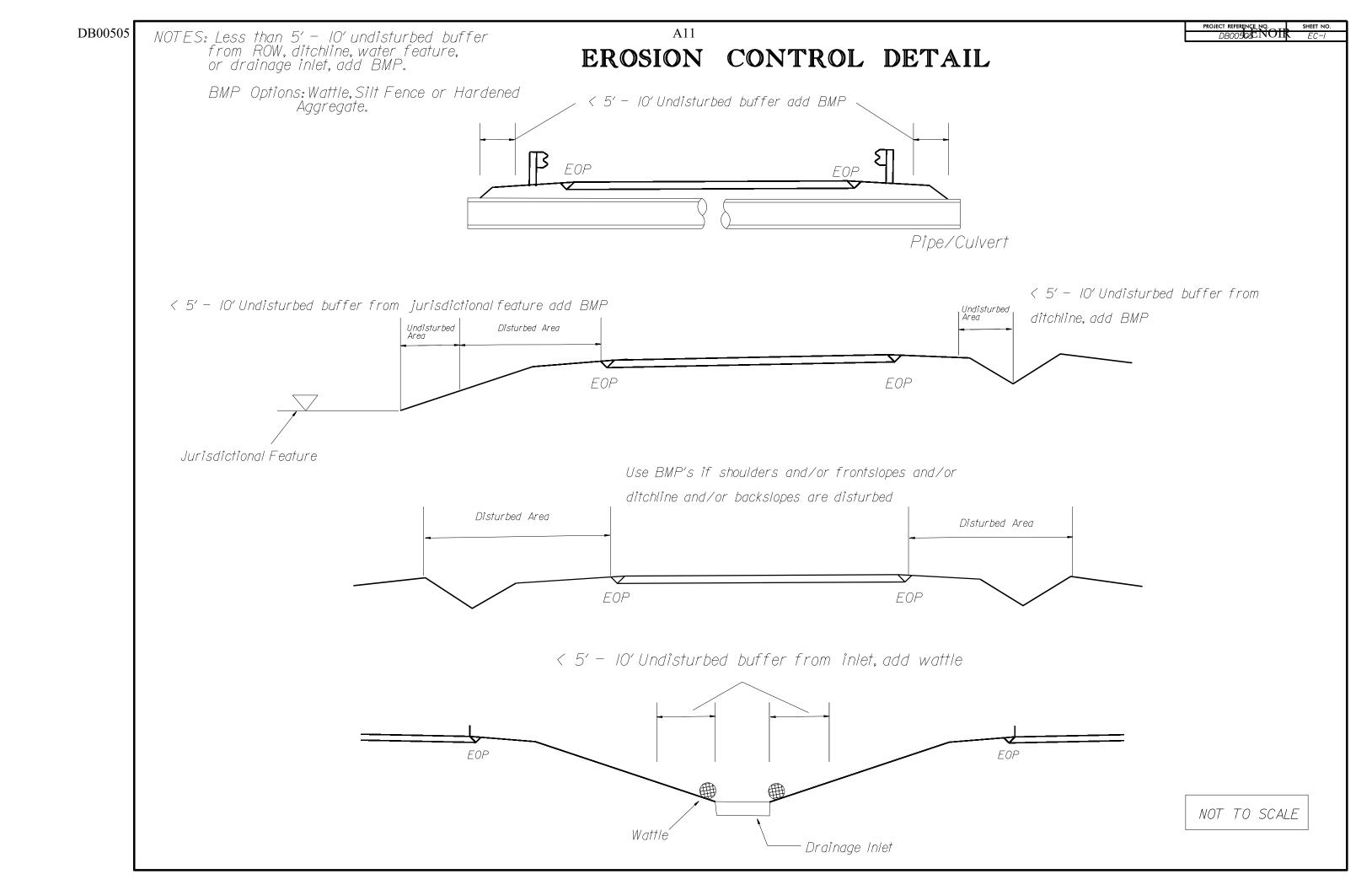
#### NOTE:

- 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.

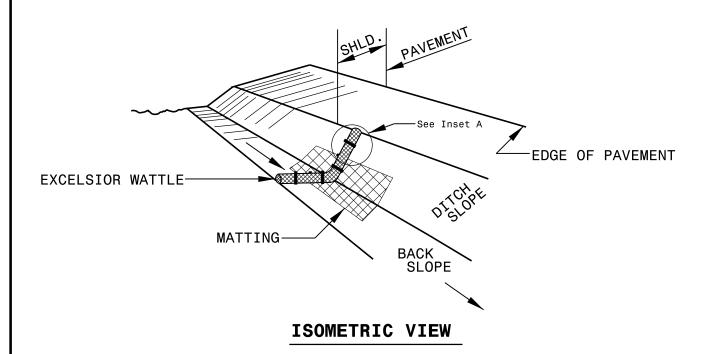
(Resurfacing Adjacent to Rutted Shoulder)

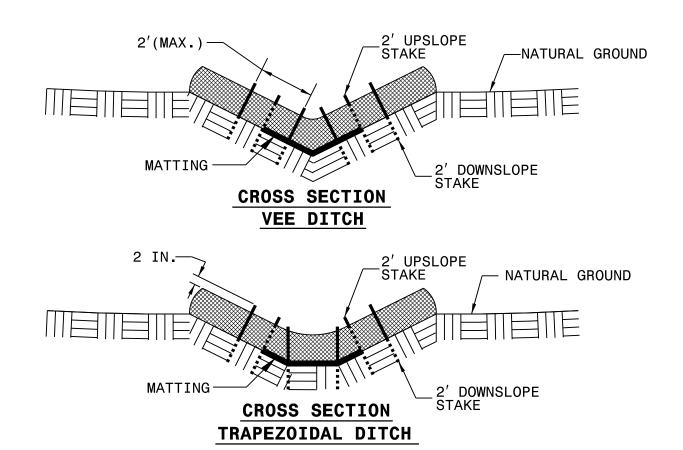
### **DETAILS**

DATE: 7-19-11 DATE: 10/16/12 DATE: MODIFIED BY CHECKED BY: FILE SPEC::



### 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.

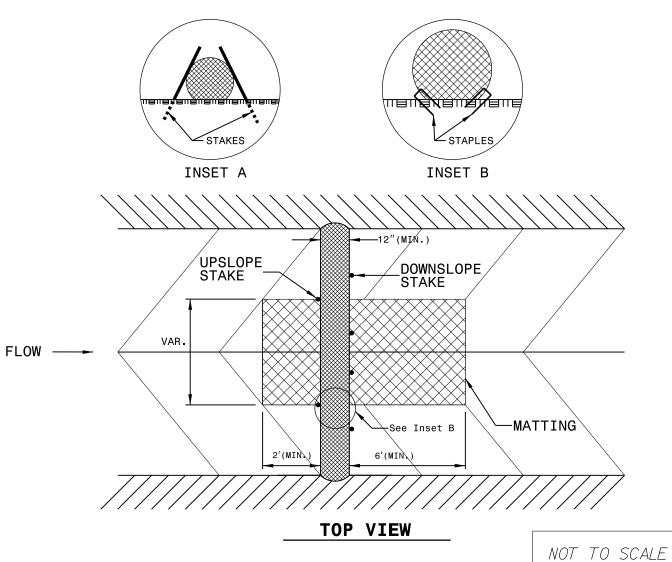
 $\underline{\text{ONLY}}$  INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.

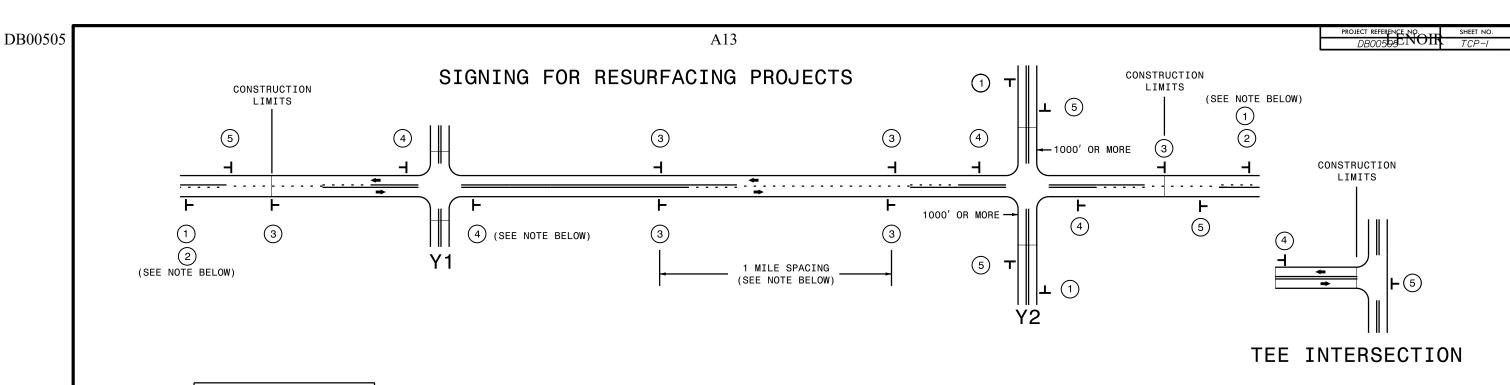
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.

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.

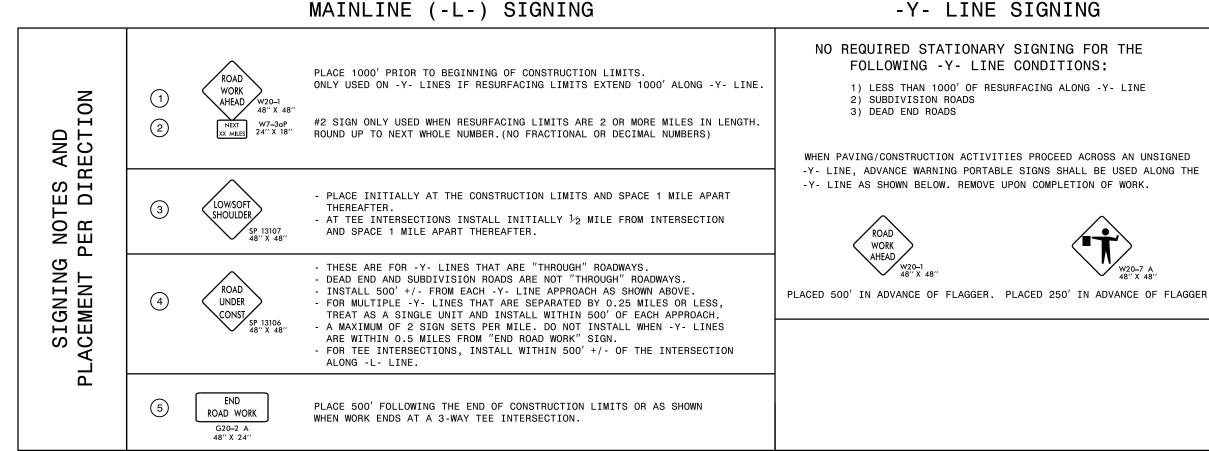
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.





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

### MAINLINE (-L-) SIGNING





RESURFACING ADVANCE WARNING SIGNS FOR RURAL AND SUBURBAN 2 LANE ROADWAYS