WBS NO: 2026CPT.01.10.10461, ETC.

CONTRACT: DA00661

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

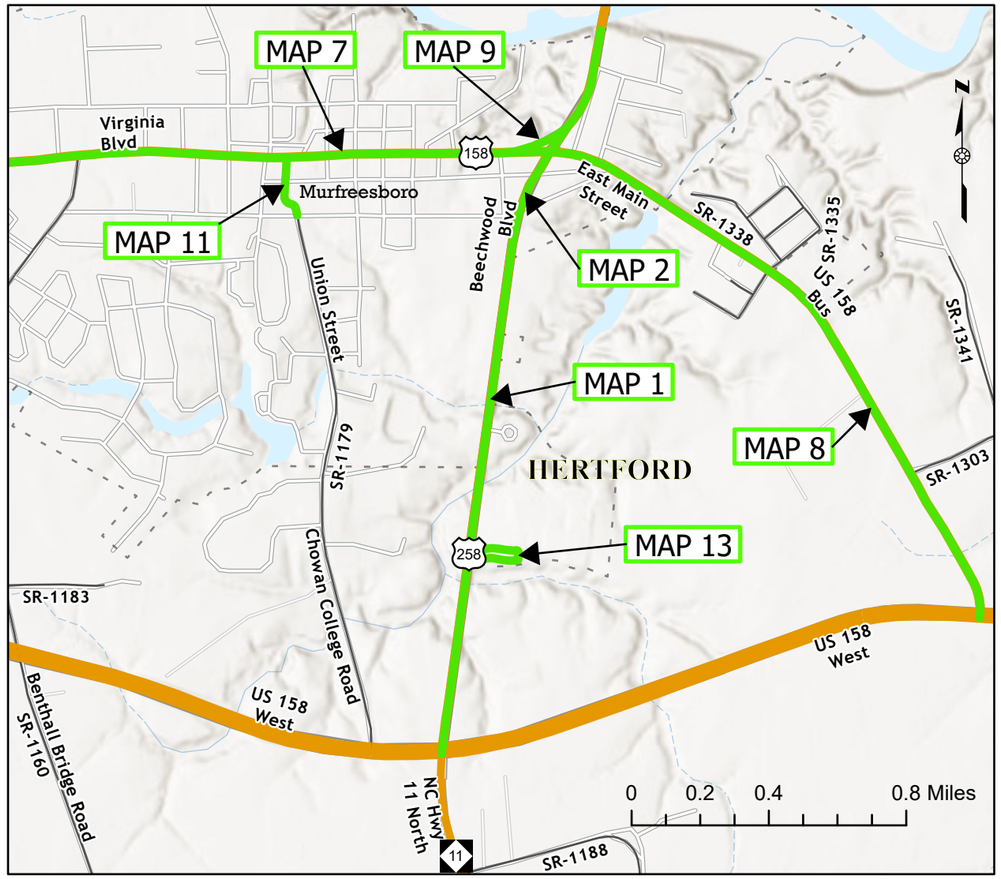
HERTFORD

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2026CPT.01.10.10461, ETC.	1

STATE PROJECT NUMBER	DESCRIPTION
2026CPT.01.10.10461	P.E., CONST.
2026CPT.01.10.20461	P.E., CONST.

TYPE OF WORK: MILLING, RESURFACING, SHOULDER RECONSTRUCTION, & PAVEMENT MARKINGS

MAP	ROUTE	FROM	TO
01	US 258	US 158	Begin C&G
02	US 258	Begin C&G	Bridge #9 (Meherrin River)
07	US 158 Bus. (Main St)	SR 1300 (Wises Store Rd)	End C&G
08	US 158 Bus. (Main St.)	End C&G	US 158
09	RMP-31	US 258	US 158 Bus. (Main St.)
11	SR 1179 (Union St)	Main St	High St
13	HCMS School Bus Parking Lot	US 258	US 258



PROJECT LENGTH

MAP	MILES
01	1.232
02	0.52
07	2.605
08	0.748

MAP	MILES
09	0.15
11	0.15
13	0.25

Prepared in the Office of:
DIVISION OF HIGHWAYS
113 AIRPORT DR., EDENTON, NC 27932

B. N. BRASWELL, PE
DIV. PROJ. DEVELOPMENT ENGINEER

D. J. CLODGO, PE, PMP
DIVISION PROJECT TEAM LEAD

M. S. WINSLOW
DIVISION CONTRACT ENGINEER

D. H. STALLINGS
DIVISION DESIGN ENGINEER

STATE OF NORTH CAROLINA * DEPARTMENT OF TRANSPORTATION *

WBS NO: 2026CPT.01.10.10461, ETC.

CONTRACT: DA00661

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

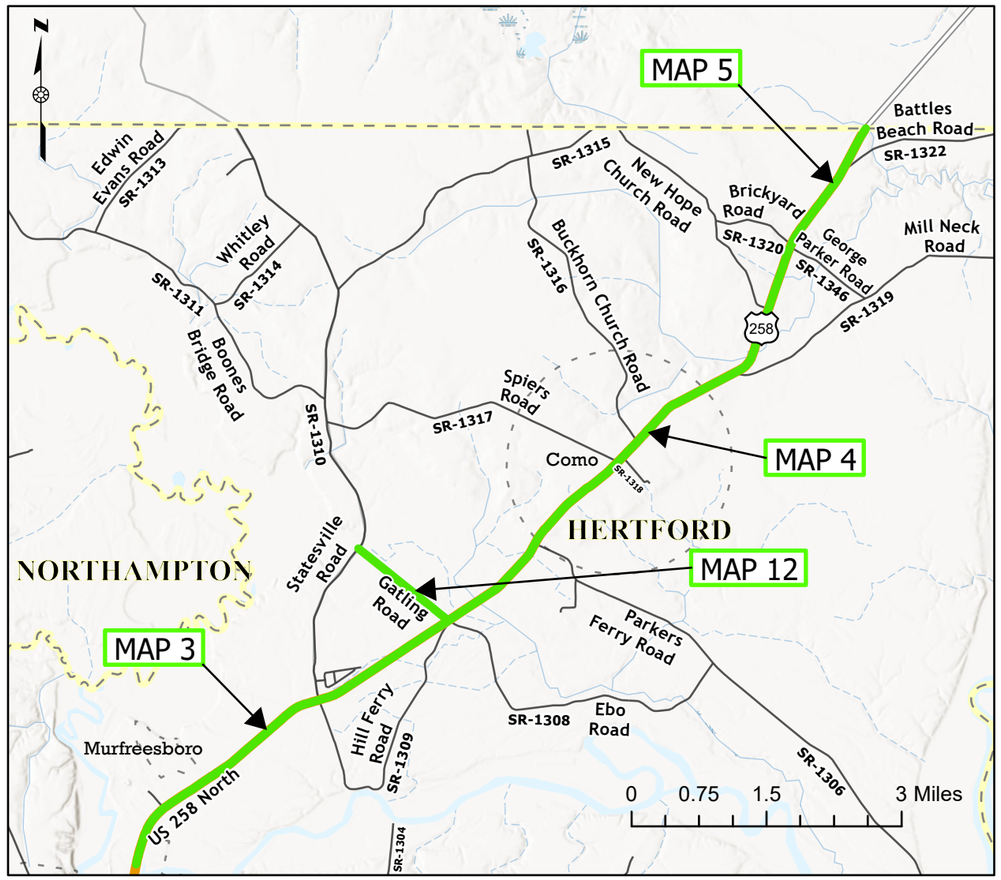
HERTFORD

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2026CPT.01.10.10461, ETC.	2

STATE PROJECT NUMBER	DESCRIPTION
2026CPT.01.10.10461	P.E., CONST.
2026CPT.01.10.20461	P.E., CONST.

TYPE OF WORK: MILLING, RESURFACING, SHOULDER RECONSTRUCTION, & PAVEMENT MARKINGS

MAP	ROUTE	FROM	TO
03	US 258	Bridge #9 (Meherrin River)	SR 1306 (Parkers Ferry Rd.)
04	US 258	SR 1306 (Parkers Ferry Rd.)	SR 1319 (Mill Neck Rd.)
05	US 258	SR 1319 (Mill Neck Rd.)	Virginia State Line
12	SR 1308 (Gatling Rd.)	SR 1310 (Statesville Rd.)	US 258



PROJECT LENGTH

MAP	MILES
03	4.691
04	2.39
05	2.499
12	1.03

Prepared in the Office of:
DIVISION OF HIGHWAYS
113 AIRPORT DR., EDENTON, NC 27932

B. N. BRASWELL, PE
DIV. PROJ. DEVELOPMENT ENGINEER

M. S. WINSLOW
DIVISION CONTRACT ENGINEER

D. J. CLODGO, PE, PMP
DIVISION PROJECT TEAM LEAD

D. H. STALLINGS
DIVISION DESIGN ENGINEER

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

WBS NO: 2026CPT.01.10.10461, ETC.

CONTRACT: DA00661

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

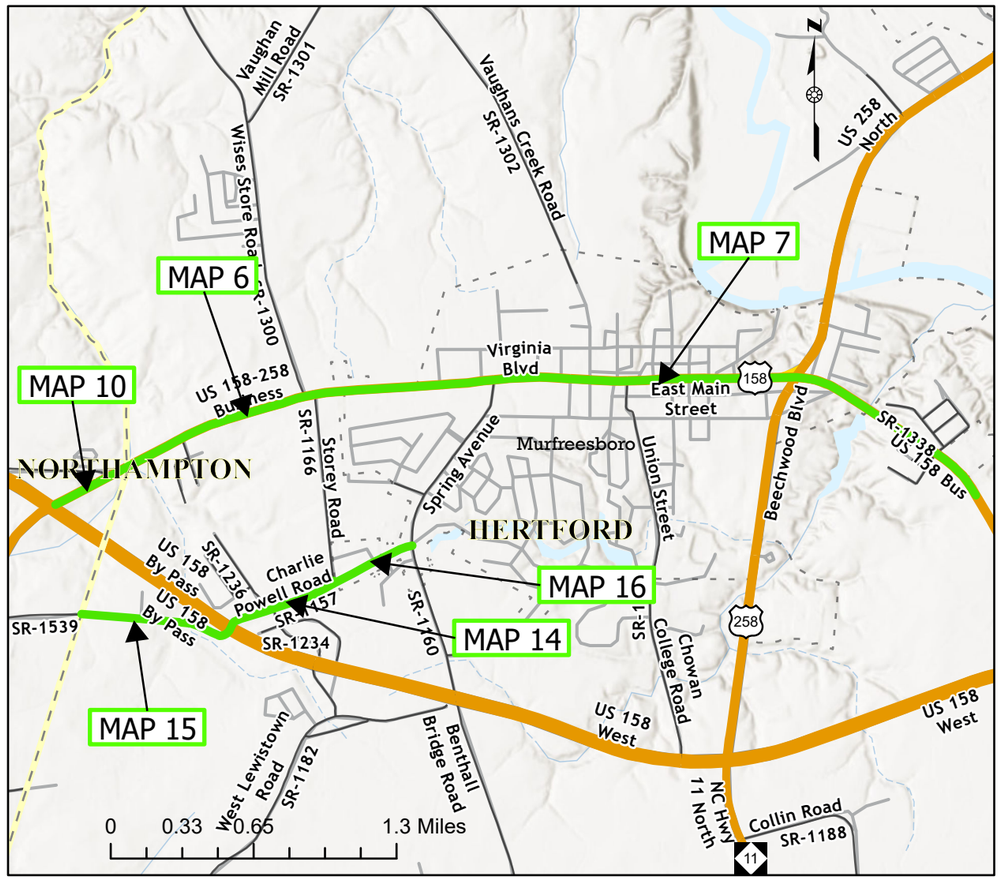
HERTFORD/ NORTHAMPTON

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2026CPT.01.10.10461, ETC.	3

STATE PROJECT NUMBER	DESCRIPTION
2026CPT.01.10.10461	P.E., CONST.
2026CPT.01.10.20461	P.E., CONST.
2026CPT.01.10.10661	P.E., CONST.
2026CPT.01.10.20462	P.E., CONST.

TYPE OF WORK: MILLING, RESURFACING, SHOULDER RECONSTRUCTION, & PAVEMENT MARKINGS

MAP	ROUTE	FROM	TO
06	US 158 Bus. (Main St.)	Northampton Co.	SR 1300 (Wises Store Rd.)
07	US 158 Bus. (Main St)	SR 1300 (Wises Store Rd)	End C&G
10	US 158 Bus.	US 158	Hertford Co
14	SR 1157 (Powell Rd.)	SR 1166 (Storey Rd.)	US 158
15	SR 1157 (Powell Rd.)	Northampton Co	US 158
16	SR 1166 (Storey Rd.)	SR 1160 (Spring Ave.)	SR 1157 (Powell Rd.)



PROJECT LENGTH

MAP	MILES
06	0.71
07	2.605
10	0.31

MAP	MILES
14	0.43
15	0.559
16	0.33

Prepared in the Office of:
DIVISION OF HIGHWAYS
113 AIRPORT DR., EDENTON, NC 27932

B. N. BRASWELL, PE
DIV. PROJ. DEVELOPMENT ENGINEER

M. S. WINSLOW
DIVISION CONTRACT ENGINEER

D. J. CLODGO, PE, PMP
DIVISION PROJECT TEAM LEAD

D. H. STALLINGS
DIVISION DESIGN ENGINEER

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

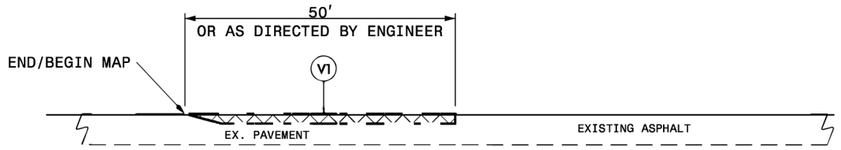
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	4

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING
V2	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
M1	PROP. APPROX. 18" SINUSOIDAL RUMBLE STRIPS (CENTERLINE)
M2	PROP. APPROX. 8" SINUSOIDAL RUMBLE STRIPS (EDGE LINES)

NOTES:

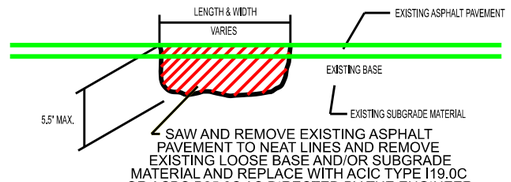
* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.5" OF S9.5C TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* CONTRACTOR SHALL PERFORM PATCHING ON ALL MAPS FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5C



DETAIL 1

MAIN LINE MILLING

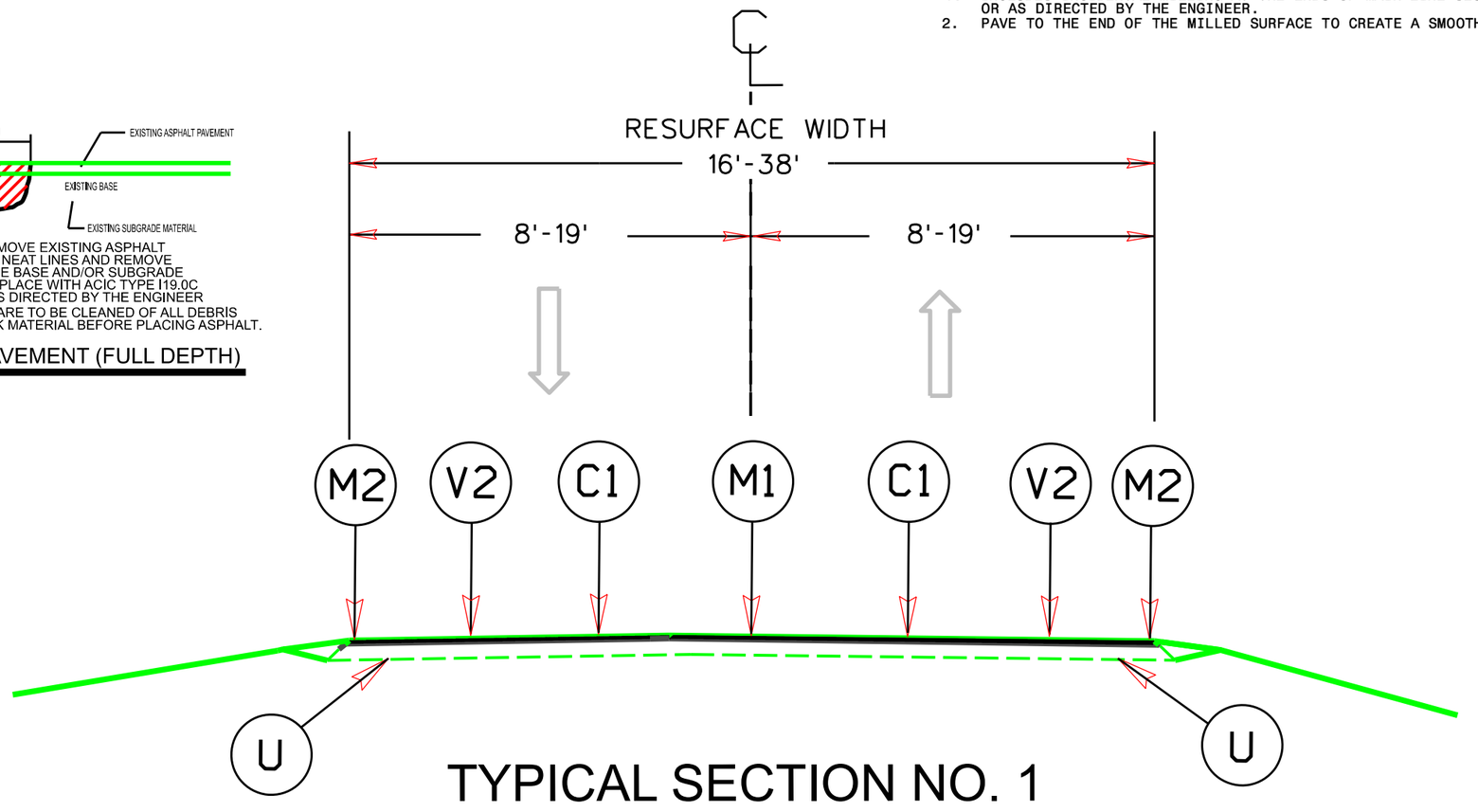
NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



SAW AND REMOVE EXISTING ASPHALT PAVEMENT TO NEAT LINES AND REMOVE EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACIC TYPE I 19.0C OR ACBC B25.0C AS DIRECTED BY THE ENGINEER

*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

PATCHING EXISTING PAVEMENT (FULL DEPTH)



TYPICAL SECTION NO. 1

USE WITH MAPS 3-5

NTS

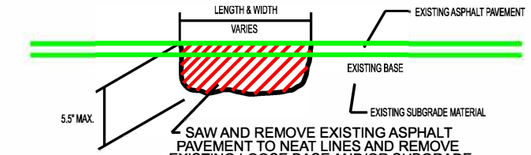
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	5

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING
V2	MILLING ASPHALT PAVEMENT, 1.5" DEPTH

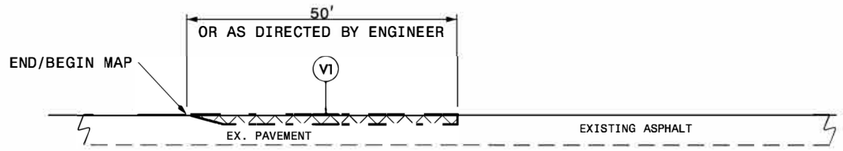
NOTES:

* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.5" OF S9.5C TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* CONTRACTOR SHALL PERFORM PATCHING ON MAPS 6 & 8 FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5C



*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

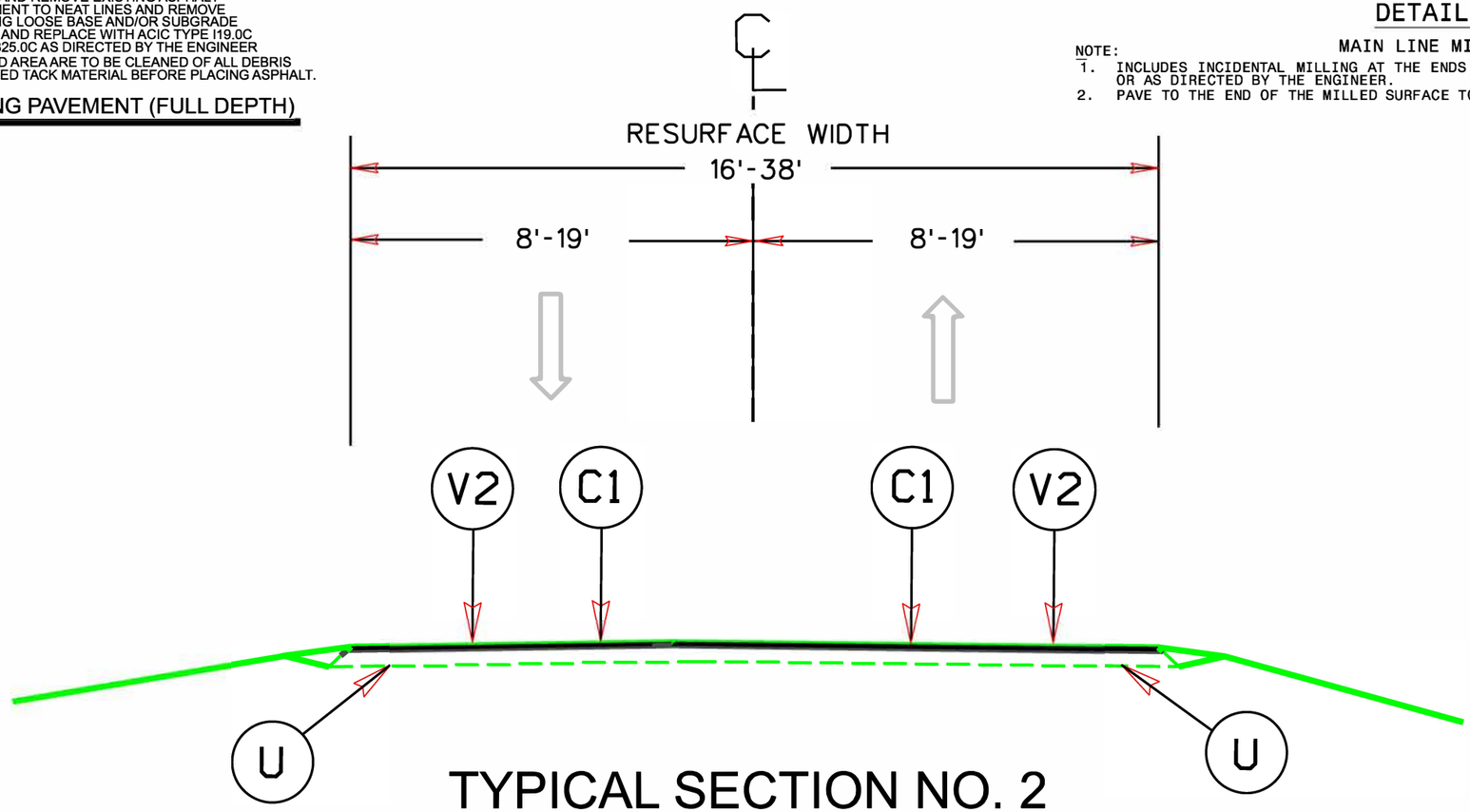
PATCHING EXISTING PAVEMENT (FULL DEPTH)



DETAIL 1

MAIN LINE MILLING

NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



TYPICAL SECTION NO. 2

USE WITH MAPS 1, 6 & 8-10

NTS

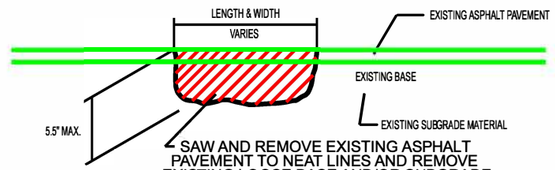
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	6

PAVEMENT SCHEDULE

C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
V2	MILLING ASPHALT PAVEMENT, 1.5" DEPTH
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING

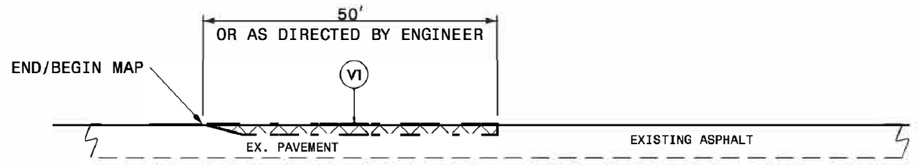
NOTES:

* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.5" OF S9.5C TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* CONTRACTOR SHALL PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5C
* INCIDENTAL MILLING WILL BE PREFORMED ON ALL MAPS
* FULL DEPTH PATCHING WILL BE PREFORMED ON ALL MAPS



*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

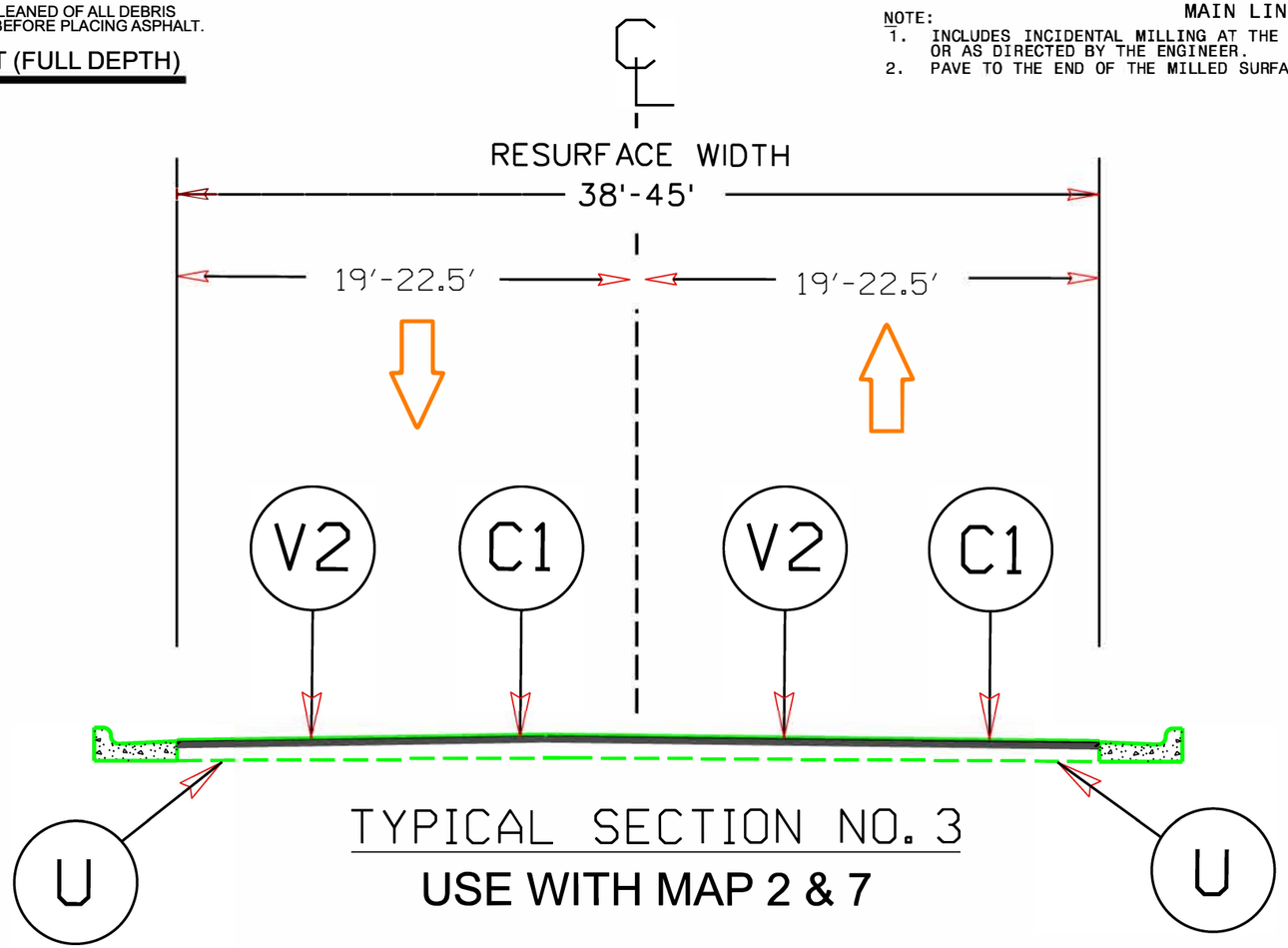
PATCHING EXISTING PAVEMENT (FULL DEPTH)



DETAIL 1

MAIN LINE MILLING

NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



TYPICAL SECTION NO. 3

USE WITH MAP 2 & 7

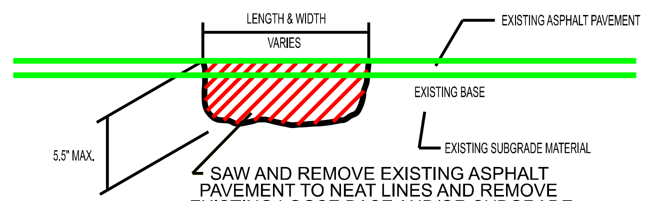
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	7

PAVEMENT SCHEDULE

C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
T	SHOULDER RECONSTRUCTION
V1	INCIDENTAL MILLING
V2	MILLING ASPHALT PAVEMENT, 1.5" DEPTH

NOTES:

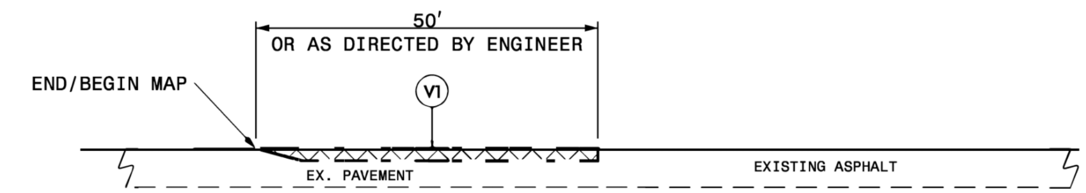
* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.5" OF S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* CONTRACTOR SHALL PERFORM PATCHING ON MAPS 11, 12, & 13 FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5B
* 1.5" MILLING SHALL BE PERFORMED ON MAPS 11 &13
* INCIDENTAL MILLING SHALL BE PERFORMED ON MAP 11 & 12
* SHOULDER RECONSTRUCTION SHALL BE PERFORMED ON MAP 12



SAW AND REMOVE EXISTING ASPHALT PAVEMENT TO NEAT LINES AND REMOVE EXISTING LOOSE BASE AND/OR SUBGRADE MATERIAL AND REPLACE WITH ACIC TYPE I19.0C OR ACBC B25.0C AS DIRECTED BY THE ENGINEER

*NOTE: EDGES OF PATCHED AREA ARE TO BE CLEANED OF ALL DEBRIS AND COATED WITH AN APPROVED TACK MATERIAL BEFORE PLACING ASPHALT.

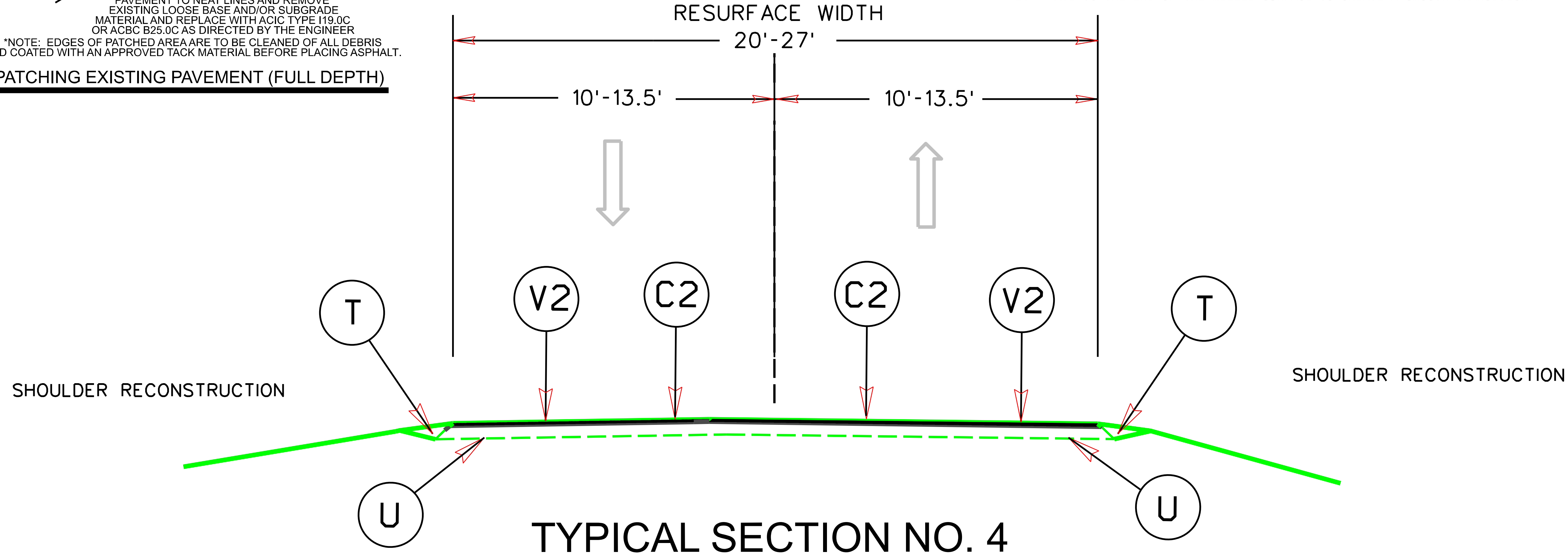
PATCHING EXISTING PAVEMENT (FULL DEPTH)



DETAIL 1

MAIN LINE MILLING

NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



TYPICAL SECTION NO. 4

USE WITH MAPS 11-13

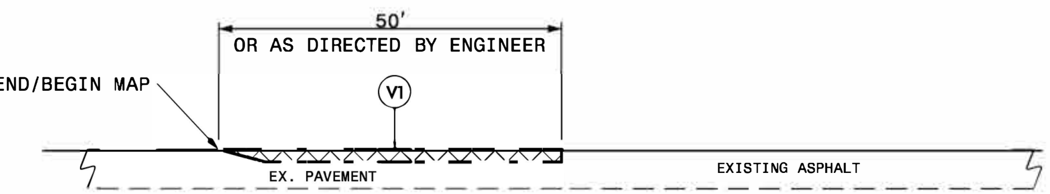
NTS

PAVEMENT SCHEDULE

C3	PROP. APPROX. 1.25" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B AT AN AVERAGE RATE OF 138 LBS. PER SQ. YD.
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING

NOTES:

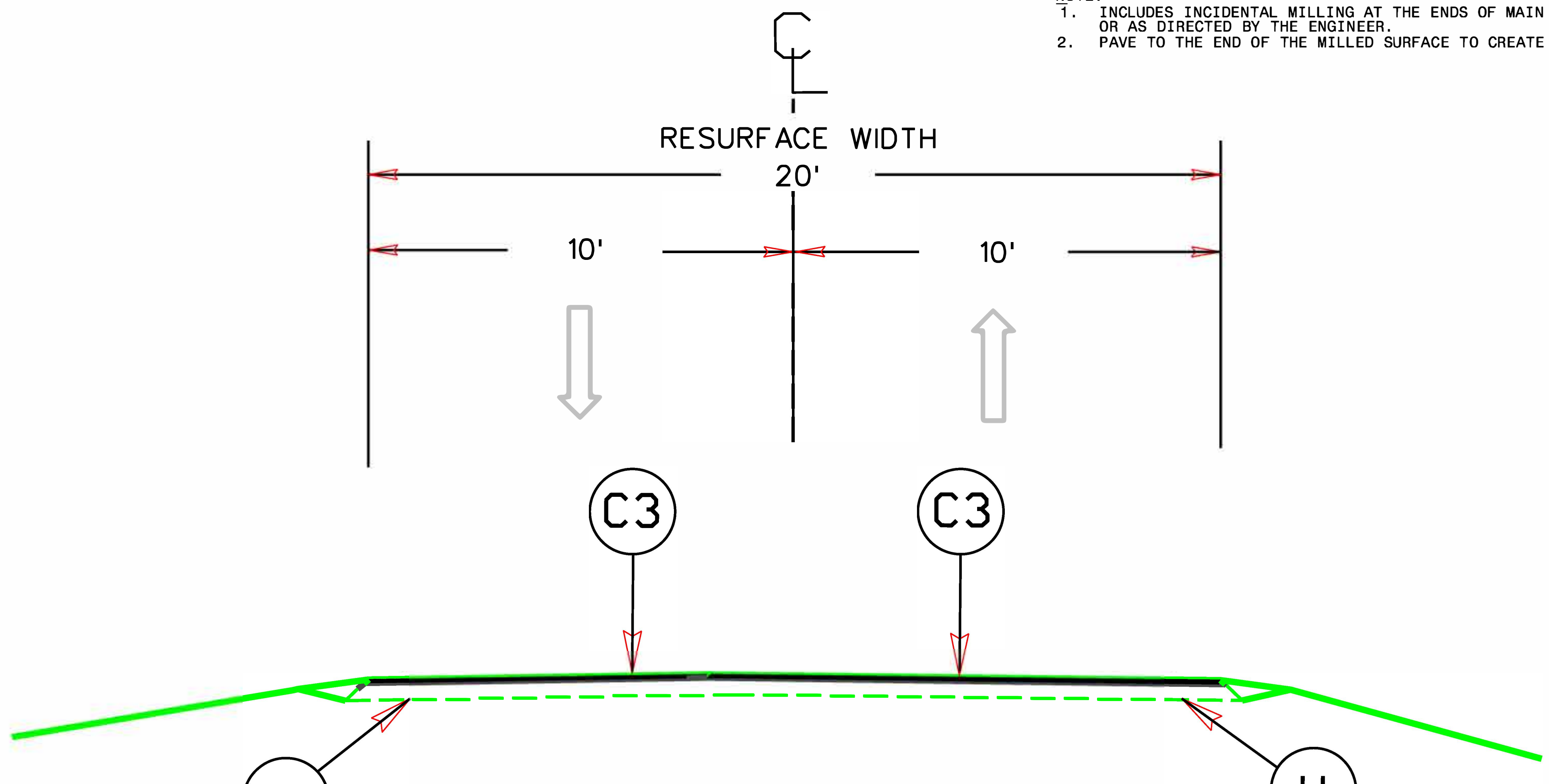
* ALL INTERSECTING ROADS ARE TO BE RESURFACED TO THE ENDS OF THEIR RADII, THE MAIN LINE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. THIS SHALL INCLUDE ANY TAPERS AND TURN LANES LOCATED BOTH ON THE MAIN LINE OR INTERSECTING PAVED ROADWAY.
* EDGES, PAVEMENT WIDENING, INTERSECTIONS AND BRIDGE FLARES ARE INCLUDED IN THE SUMMARY OF QUANTITIES.
* 1.25" OF S9.5B TO BE APPLIED THE FULL WIDTH OF THE ROADWAY
* INCIDENTAL MILLING SHALL BE PERFORMED ON MAP 16 MAP 16 WILL BE FULL WIDTH ON THE Y-LINE ALONG THE CURB & GUTTER



DETAIL 1

MAIN LINE MILLING

NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



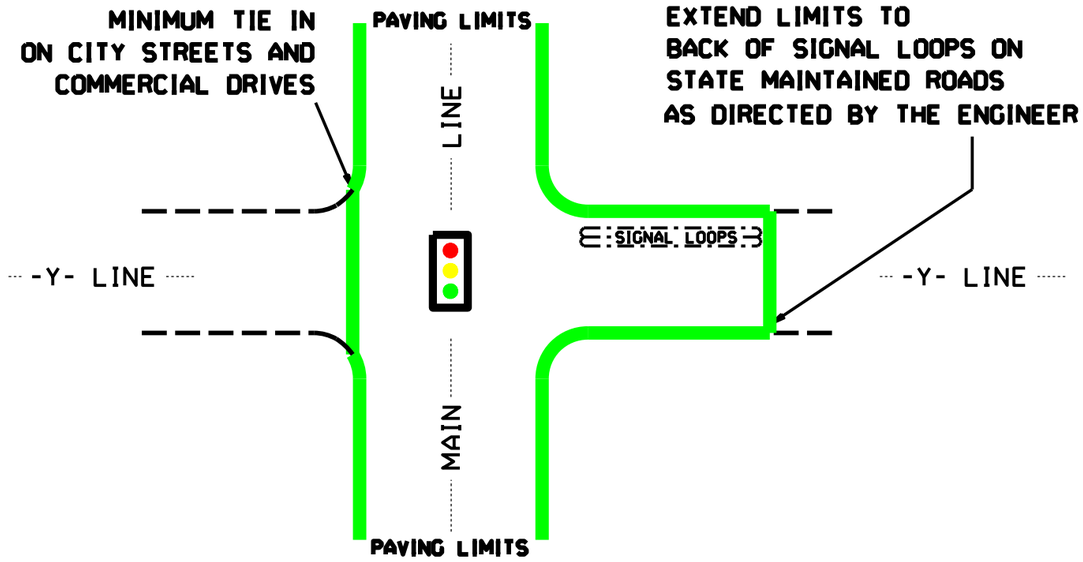
TYPICAL SECTION NO. 5

USE WITH MAPS 14-16

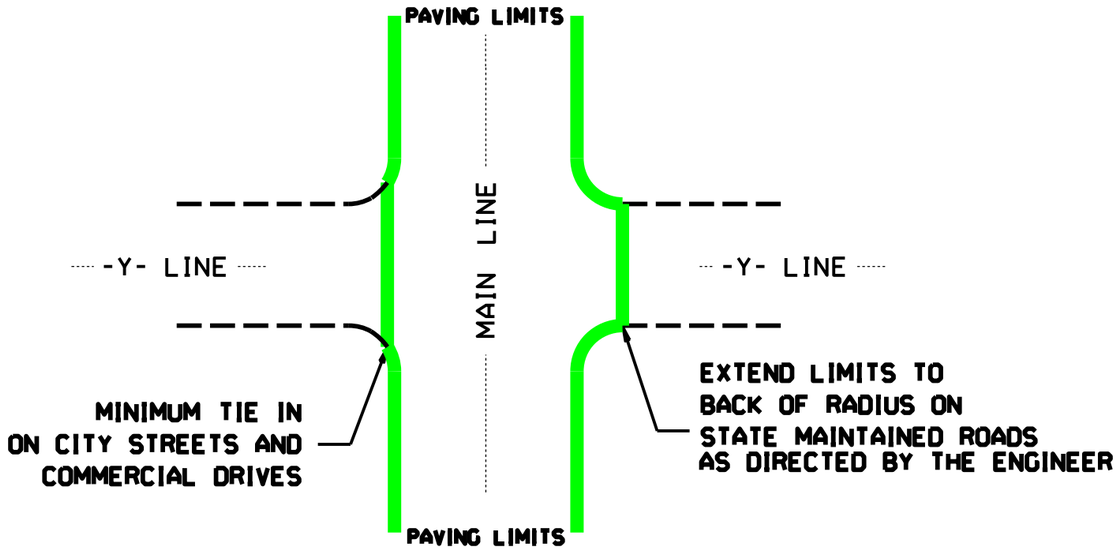
NTS

$$$$$$SYSTIME$$$$$
$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	8-A



TYPICAL DETAIL OF PROJECT LIMITS AT SIGNALIZED Y LINES



TYPICAL DETAIL OF PROJECT LIMITS AT UNSIGNALIZED Y LINES

ADDITIONAL INTERSECTIONS (NON-TYPICAL)		
Extend paving limits to back of radius or loop on the following intersections:		
MAP#	STREET NAME	COMMENTS
	PAVE ALL STATE OWNED & TOWN STREETS	
	TO BACK OF RADIUS FOR THIS PROJECT	

COMPUTED BY: TBW DATE: 02/12/26

CHECKED BY: SW DATE: 02/12/2026

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461	10

GUARDRAIL SUMMARY

G = GATING IMPACT ATTENUATOR TYPE 350
NG = NON-GATING IMPACT ATTENUATOR TYPE 350

MAP NO.	BEG. STA.	END STA.	LOCATION	EXIST. LENGTH	EXISTING ANCHORS				PROPOSED ANCHORS								IMPACT ATTENUATOR TYPE TL-3		BASE PLATE GUARDRAIL POSTS-BOX CULVERT (EA)	SHOP CURVE (LF)	STEEL BEAM GUARDRAIL (LF)	REMOVE EXISTING GUARDRAIL (LF)	REMOVE & RESET EXISTING GUARDRAIL (LF)	REMARKS
					GREU, TL-2 / TL-3	GREU, CAT-1 / AT-1	OTHER TYPE ANCHOR UINT	NO END UNIT	GREU, TL-2	GREU, TL-3	OTHER TYPE ANCHOR UNIT	GREU, TYPE CAT-1 / AT-1	GRAU, TYPE III	GRAU, TYPE III MOD	GRAU, TYPE B-77	GRAU, TYPE B-83	G	NG						
2	220+57	223+04	LT	262.5		1	1					1			1					50	187.50	263		
2	222+01	223+04	RT	106.25	1		1		1						1						38	106		
3	231+64	241+39	LT	975	1		1			1					1						900.00	975		
3	231+64	233+15	RT	150		1	1			1					1						87.50	150		
3	237+14	238+32	RT	118.75		2				1		1									62.5	119		
9	0+97	4+47	RT	350				2	1			1									300.00	350		
10	16+63	17+75	RT	112.5		2				1		1							5		62.5	113		
10	17+25	18+74	LT	150		2				1		1							5		100.00	150		
		SUBTOTAL		2225					2	5		5			4				10.00	50.00	1738	2225.00		
	LESS ANCHOR DEDUCTIONS																							
	GREU, TL-3	5 @ 50'	=	250																				
	GREU, TL-2	2 @ 50'	=	100																				
	GREU, AT-1	0 @ 6.25'	=	0																				
	GREU, CAT-1	5 @ 6.25'	=	31.25																				
	GRAU, TYPE III	0 @ 18.75'	=	0																				
	GRAU, TYPE III MOD	0 @ 22.875'	=	0																				
	GRAU, TYPE B-77	4 @ 22.875'	=	91.5																				
	GRAU, TYPE B-83	0 @ 25'	=	0																				
	TOTALS			**472.75**																				

ANCHOR DEDUCTIONS (ft)

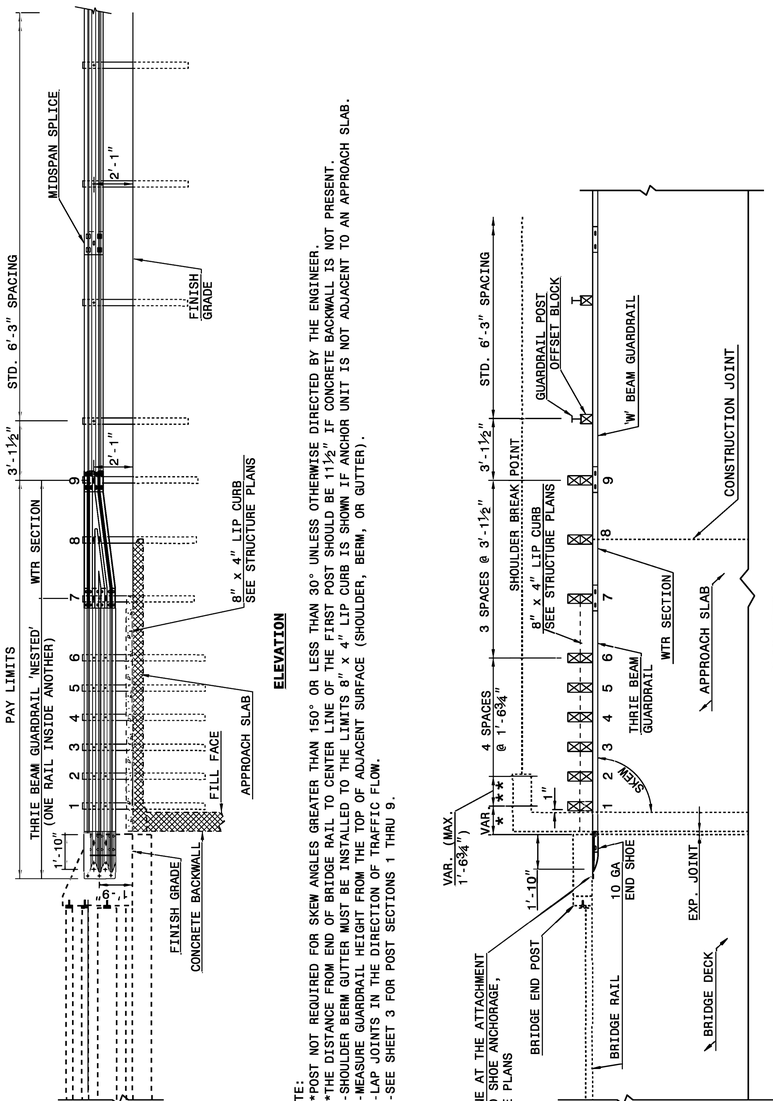
GREU, TL-3	50.0	GRAU, TYPE III	18.8
GREU, TL-2	50.0	GRAU, TYPE B-77	22.9
GREU, AT-1	6.25	GRAU, TYPE B-83	25.0
GREU, CAT-1	6.25		

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461	11

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
STRUCTURE ANCHOR UNITS
GUARDRAIL ANCHOR UNIT, TYPE III
FOR ATTACHMENT TO RAIL ON BRIDGE

SHEET 1 OF 7
862D03



ELEVATION

PLAN VIEW

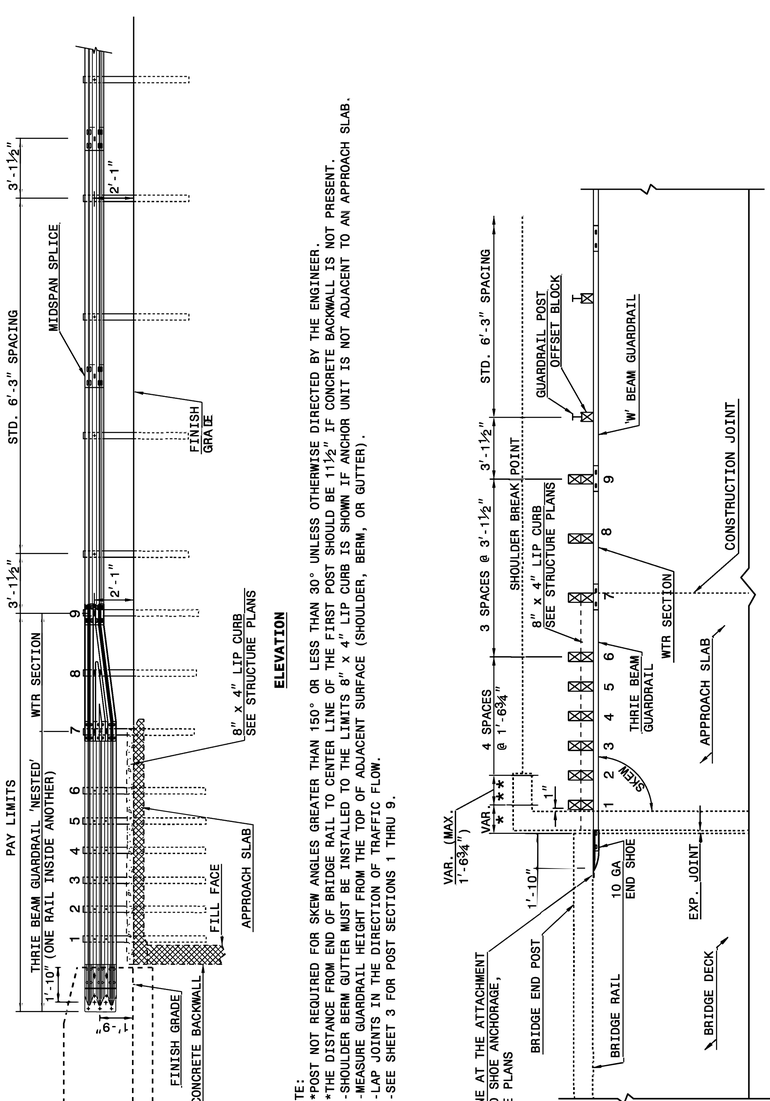
GUARDRAIL ANCHOR UNIT, TYPE III
FOR ATTACHMENT TO RAIL ON BRIDGE

NOTE:
**POST NOT REQUIRED FOR SKEW ANGLES GREATER THAN 150° OR LESS THAN 30° UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
*THE DISTANCE FROM END OF BRIDGE RAIL TO CENTER LINE OF THE FIRST POST SHOULD BE 11½" IF CONCRETE BACKWALL IS NOT PRESENT.
-SHOULDER BERM GUTTER MUST BE INSTALLED TO THE LIMITS 8" x 4" LIP CURB IS SHOWN IF ANCHOR UNIT IS NOT ADJACENT TO AN APPROACH SLAB.
-MEASURE GUARDRAIL HEIGHT FROM THE TOP OF ADJACENT SURFACE (SHOULDER, BERM, OR GUTTER).
-LAP JOINTS IN THE DIRECTION OF TRAFFIC FLOW.
-SEE SHEET 3 FOR POST SECTIONS 1 THRU 9.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
STRUCTURE ANCHOR UNITS
GUARDRAIL ANCHOR UNIT, TYPE III FOR ATTACHMENT TO
RAIL ON BRIDGE - SUB REGIONAL TIER

SHEET 2 OF 7
862D03



ELEVATION

PLAN VIEW

GUARDRAIL ANCHOR UNIT, TYPE III FOR ATTACHMENT TO
RAIL ON BRIDGE - SUB REGIONAL TIER

NOTE:
**POST NOT REQUIRED FOR SKEW ANGLES GREATER THAN 150° OR LESS THAN 30° UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
*THE DISTANCE FROM END OF BRIDGE RAIL TO CENTER LINE OF THE FIRST POST SHOULD BE 11½" IF CONCRETE BACKWALL IS NOT PRESENT.
-SHOULDER BERM GUTTER MUST BE INSTALLED TO THE LIMITS 8" x 4" LIP CURB IS SHOWN IF ANCHOR UNIT IS NOT ADJACENT TO AN APPROACH SLAB.
-MEASURE GUARDRAIL HEIGHT FROM THE TOP OF ADJACENT SURFACE (SHOULDER, BERM, OR GUTTER).
-LAP JOINTS IN THE DIRECTION OF TRAFFIC FLOW.
-SEE SHEET 3 FOR POST SECTIONS 1 THRU 9.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
STRUCTURE ANCHOR UNITS
GUARDRAIL ANCHOR UNIT, TYPE III
FOR ATTACHMENT TO RAIL ON BRIDGE

SHEET 1 OF 7
862D03

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
STRUCTURE ANCHOR UNITS
GUARDRAIL ANCHOR UNIT, TYPE III FOR ATTACHMENT TO
RAIL ON BRIDGE - SUB REGIONAL TIER

SHEET 2 OF 7
862D03

14-DEC-2017 10:36
S:\Contracts\Contracts\Special Details\jhowerton\Standard Drawings\2018 Standard Drawings\Details in Lieu of Standards\Division 8\0862d0301.dgn
jhowerton AT CSD-2925595

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 33144 NICOLE M HACKLER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

SEE TITLE BLOCK

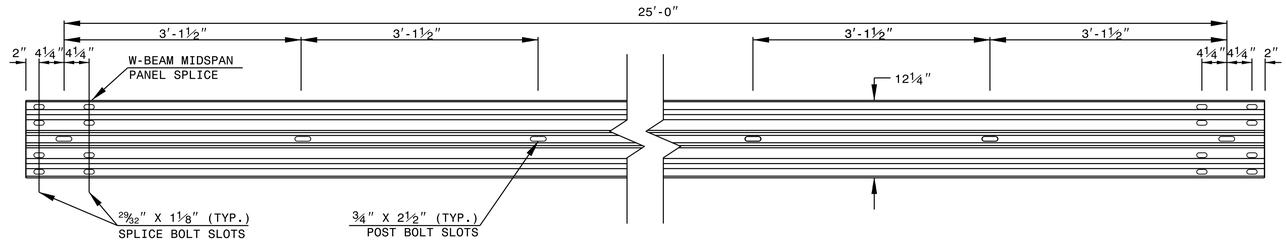
ORIGINAL BY: J HOWERTON DATE: 06-22-12
MODIFIED BY: DATE:
CHECKED BY: DATE:
FILE SPEC.:

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461	12
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

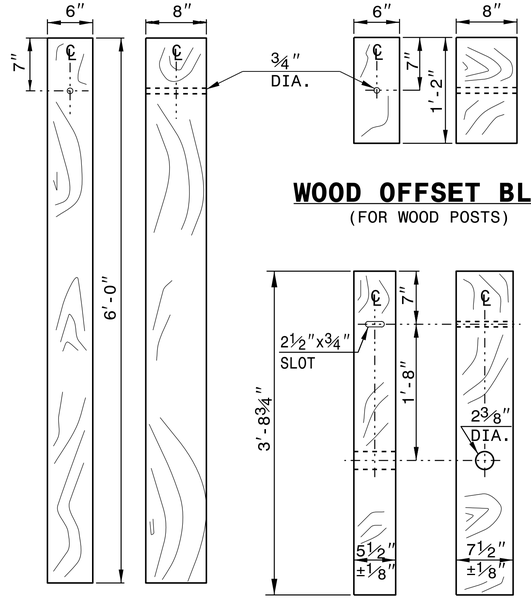
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02



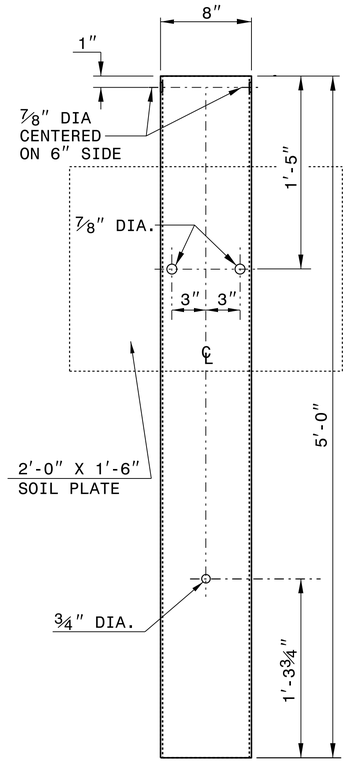
STANDARD W-BEAM GUARDRAIL



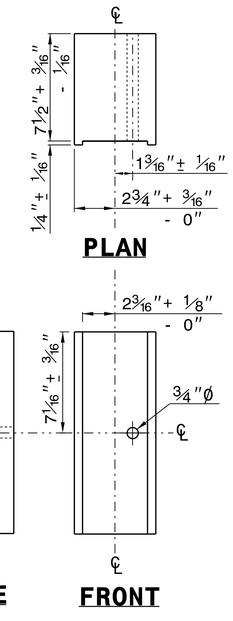
WOOD OFFSET BLOCK
(FOR WOOD POSTS)

STANDARD LINE POST

SHORT WOOD BREAKAWAY POST



STEEL TUBE
TS 6"x8"x0.1875"

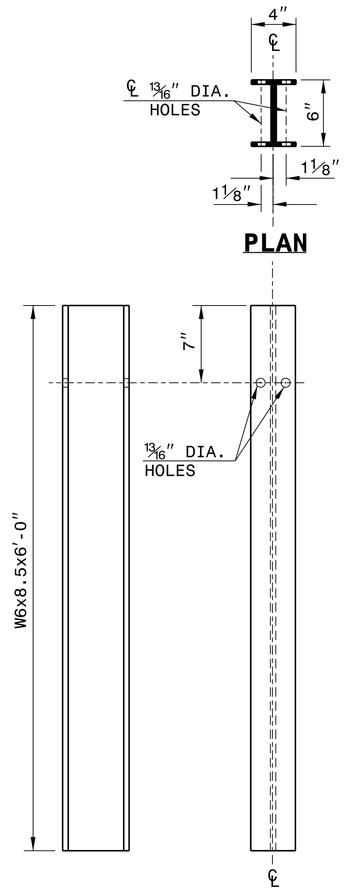


PLAN

SIDE

FRONT

ROUTED OFFSET BLOCK



PLAN

SIDE

FRONT

"W6" STEEL POST

SYSTEM PARTS

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02

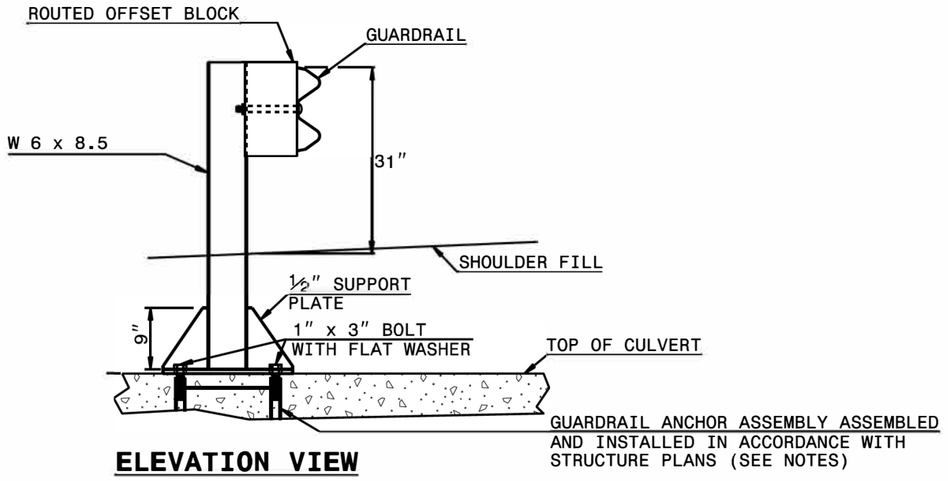
NORTH CAROLINA PROFESSIONAL SEAL 33144 ENGINEER NICOLE M WALKER

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

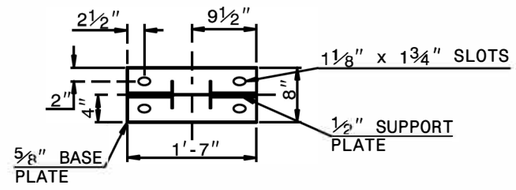
SEE TITLE BLOCK

ORIGINAL BY: J.HOWERTON DATE: 3-7-2018
MODIFIED BY: _____ DATE: _____
CHECKED BY: _____ DATE: _____
FILE SPEC.: _____

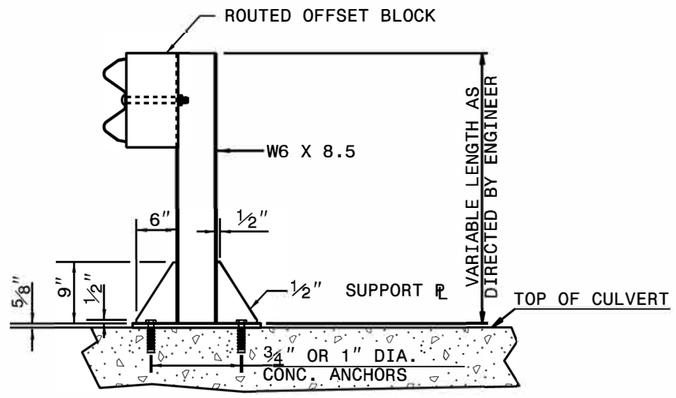
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	13



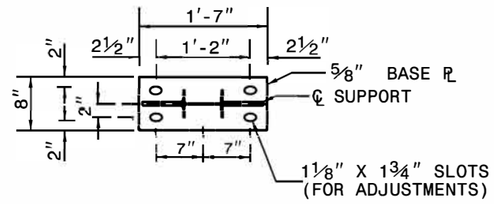
ELEVATION VIEW



PLAN VIEW



ELEVATION VIEW



PLAN VIEW

NOTES FOR:
GUARDRAIL POST ANCHORED TO STRUCTURE:
- -USE FULL LENGTH ¼" BUTT WELDS AT ALL LOCATIONS OF CONTACT BETWEEN THE BASE PLATE, SUPPORT PLATES AND STEEL POST.
- -USE POST AND POST BASE PLATES CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-36 AND GALVANIZED AFTER FABRICATION TO CONFORM TO A.S.T.M. A-123.

NEW STRUCTURES:
- -ATTACH POST TO INSERT ASSEMBLY UNITS (USING ANCHOR BOLTS SUPPLIED WITH INSERTS) WHICH HAVE BEEN CAST INTO THE STRUCTURE DURING CONSTRUCTION.

EXISTING STRUCTURES:
- -USE CONCRETE ANCHORS CONSISTING OF A STUD BOLT WITH NUT AND WASHER. USE STUDS THREADED ON ONE END AND HAVING AN EXPANDED WEDGE ASSEMBLY POSITIONED AROUND A TAPERED AREA AT THE OTHER END. USE ANCHORS WHICH PROVIDE A MINIMUM SAFE HOLDING POWER OF 2875 LBS. FOR A ¾" OR 1" DIAMETER BOLT. CALCULATE HOLDING POWER BASED ON ¼ THE ACTUAL HOLDING POWER OF THE ANCHOR IN 3500 PSI CONCRETE AS DETERMINED BY AN APPROVED COMMERCIAL TESTING LABORATORY.

- -USE ANCHORS GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-153. SIZE HOLES FOR THE CONCRETE ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURER'S RECOMMENDATIONS. DRILL HOLES WITH A CARBIDE OR DIAMOND TIPPED MASONRY BIT POWERED BY A ROTARY OR ROTARY IMPACT DRILL. NO OTHER IMPACT TOOLS WILL BE PERMITTED. DRILL HOLES VERTICALLY. FURNISH DOCUMENTATION OF HOLE SIZE RECOMMENDED FOR THE SPECIFIED ANCHOR TO THE ENGINEER BEFORE DRILLING HOLES. THOROUGHLY CLEAN HOLES FOR ANCHORS OF ALL CONCRETE CHIPS, DUST, GREASE, OIL, ETC. BEFORE ANCHORS ARE INSTALLED. REPAIR ALL DAMAGE CAUSED BY THIS WORK TO THE SATISFACTION OF THE ENGINEER.

ANCHORAGE FOR GUARDRAIL POST ON BOX CULVERT

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-24

ROADWAY STANDARD DRAWING FOR
STRUCTURE ANCHOR UNITS
ANCHORAGE FOR GUARDRAIL POST ON BOX CULVERT

SHEET 7 OF 9

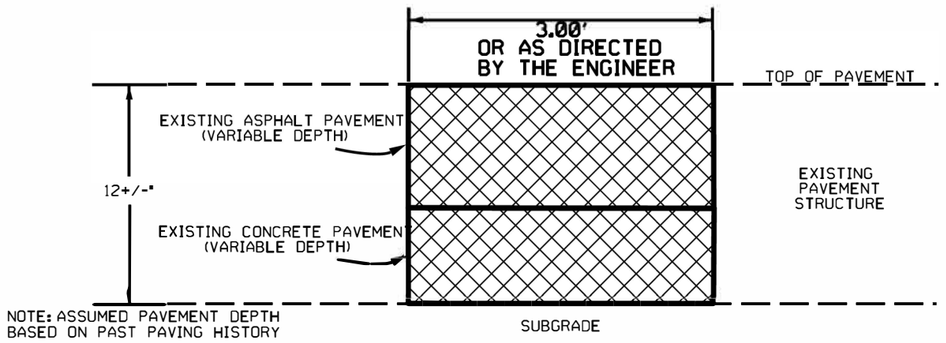
862.03

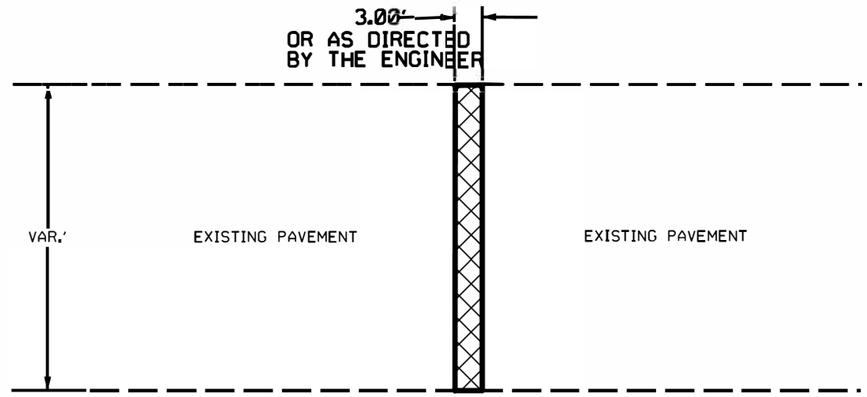
$$$$$$$SYSTIME$$$$$$
$$$$$$$SYSTIME$$$$$$DGN$$$$$$$$$$$$$$$$$$$$
$$$$$$$USERNAME$$$$$$

PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	14

JOINT REPAIR DETAIL

CROSS-SECTION





NOTE:

REMOVE ASPHALT AND CONCRETE AT JOINT LOCATIONS AS DIRECTED BY THE ENGINEER(BY SAWING CLEAN JOINTS).
REMOVE A TOTAL WIDTH OF 3' (APPROX. 1.5' EACH SIDE OF JOINT).
REMOVE AND REPLACE WITH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C.
THERE WILL BE NO DIRECT PAY FOR THIS WORK AS IT WILL BE CONSIDERED INCIDENTAL TO THE LINE ITEM, JOINT REPAIR (TONS)

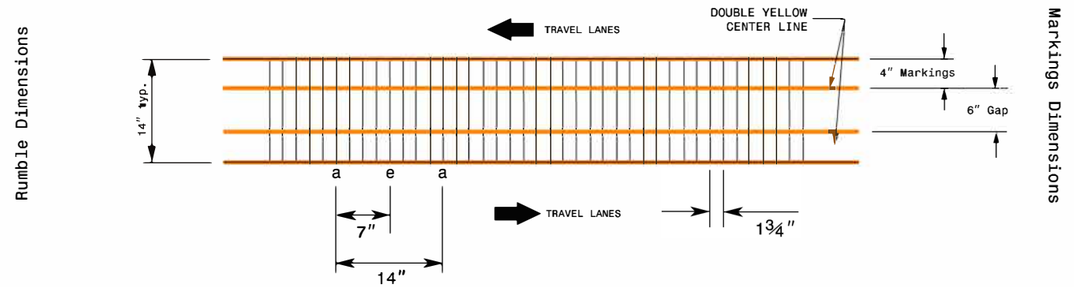
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

2-23

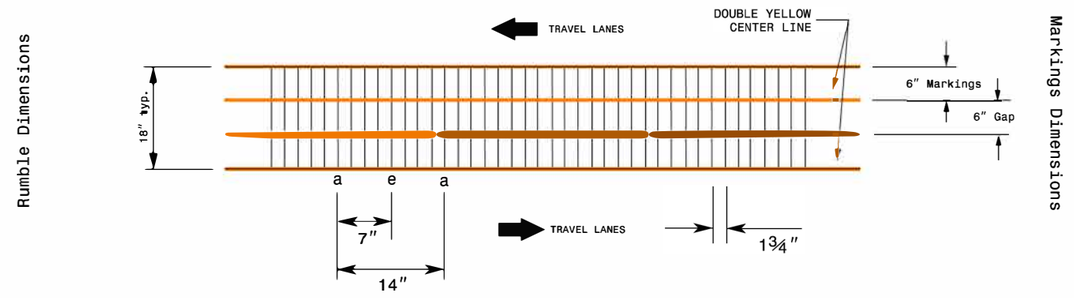
ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
SINUSOIDAL CENTERLINE RUMBLE STRIPE

See Table 2 within Rumble Strip Policy for Design Guidance

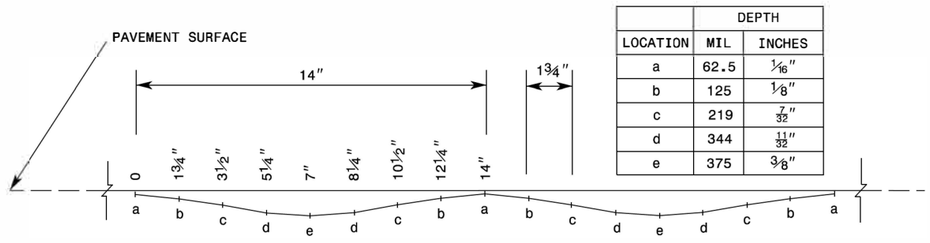
If 4″ Markings will be used:



If 6″ Markings will be used:



PROFILE:



	DEPTH	
LOCATION	MIL	INCHES
a	62.5	1/16″
b	125	1/8″
c	219	7/32″
d	344	11/32″
e	375	3/8″

REFERENCE DRAWING ID: Sin.CL

NOTES:

1) Specification in table taken from MNDOT Research Project Final Report 2016-23: *Sinusoidal Rumble Strip Design Optimization Study By: Terhaar et. al, June 2016*
2) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
3) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

2-23

ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
SINUSOIDAL CENTERLINE RUMBLE STRIPE

SHEET 6 OF 7

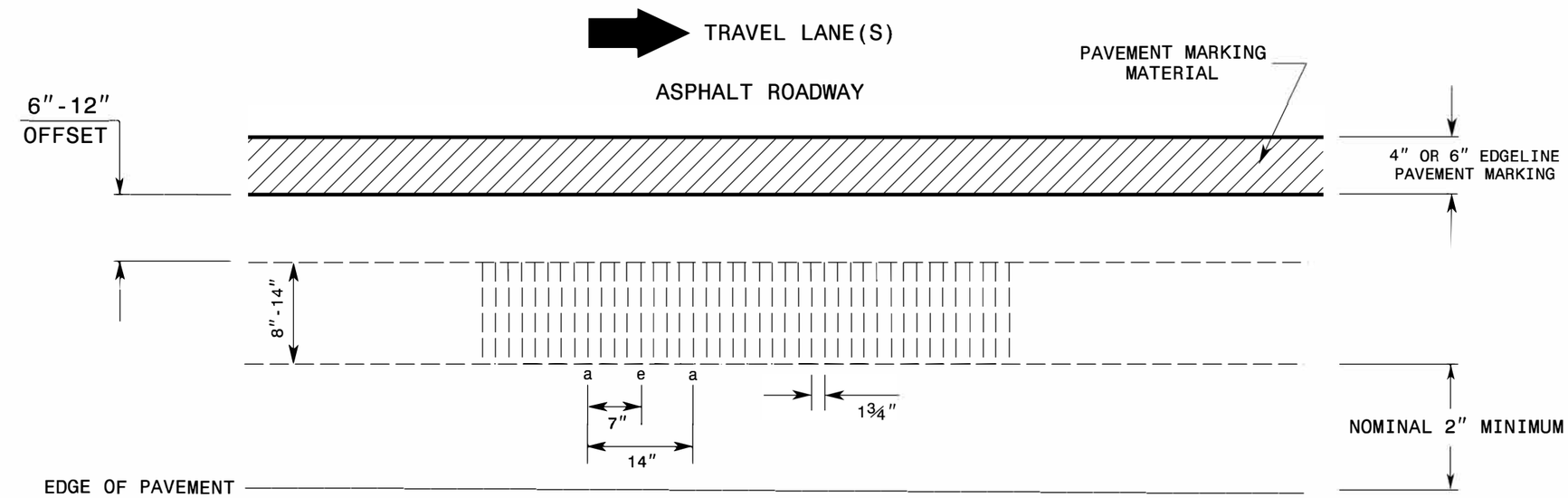
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	**16**

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
2-23

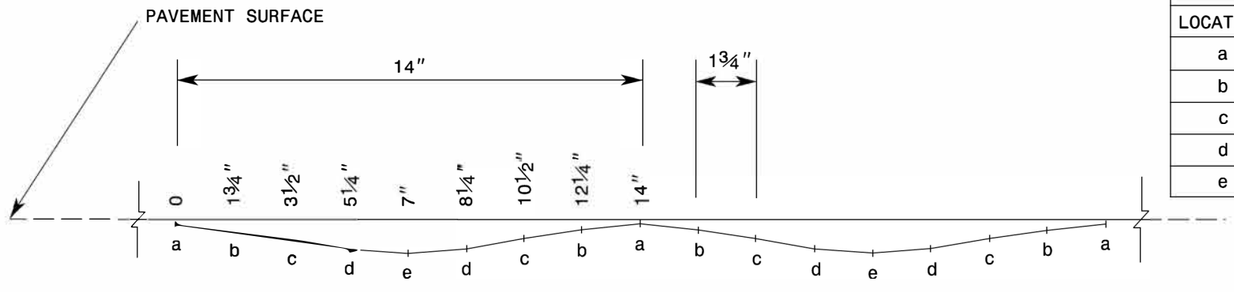
ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
SINUSOIDAL SHOULDER RUMBLE STRIP

See Table 1 within Rumble Strip Policy for Design Guidance

PLAN VIEW



PROFILE VIEW



	DEPTH	
LOCATION	MIL	INCHES
a	62.5	1/16″
b	125	1/8″
c	219	7/32″
d	344	11/32″
e	375	3/8″

REFERENCE DRAWING ID: Sin.Strip

NOTES:

1) Specification in table taken from MNDOT Research Project Final Report 2016-23: *Sinusoidal Rumble Strip Design Optimization Study By Terhoor et. al, June 2016*

SHEET 2 OF 7

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.
2-23

ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
SINUSOIDAL SHOULDER RUMBLE STRIP

SHEET 2 OF 7

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.01.10.10461, ETC.	17	

SUMMARY OF QUANTITIES

												0000100000-N	0106000000-E	1220000000-E	1245000000-E	1297000000-E	1330000000-E	1519000000-E	1523000000-E	1575000000-E	1705000000-E	1880000000-E	1881000000-E		2549000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	MOBILIZATION	BORROW EXCAVATION	INCIDENTAL STONE BASE	SHOULDER RECONSTRUCTION	MILLING ASPHALT PAVEMENT (1 1/2")	INCIDENTAL MILLING	ASPHALT CONC SURFACE COURSE, S9.5B	ASPHALT CONC SURFACE COURSE, S9.5C	ASPHALT BINDER FOR PLANT MIX	PATCHING EXISTING PAVEMENT (FULL DEPTH)	GENERIC PAVING ITEM (JOINT REPAIR)	GENERIC PAVING ITEM (SINUSOIDAL MILLED RUMBLE STRIPS, 18")	GENERIC PAVING ITEM (SINUSOIDAL MILLED RUMBLE STRIPS, 8")	2'-6" CONCRETE CURB & GUTTER
								MI	FT			LS	CY	TONS	SMI	SY	SY	TONS	TONS	TONS	TON	TON	LF	LF	LF
2026CPT.01.10.10461	Hertford	1	US-258 E / NC HWY 11 NORTH/BEECHWOOD BLVD	FROM US 158 TO BEGIN C&G		2	2WU	1.232	24	2.580	3.700	1				20,917	578		1,582	93					
2026CPT.01.10.10461	Hertford	2	US-258 E / BEECHWOOD BLVD/VIRGINIA BLVD	FROM BEGIN C&G TO BRIDGE #9 (MEHERRIN RIVER)		2	2WU	0.520	45	3.700	4.220	*				11,493	1,548		1,151	68					32
2026CPT.01.10.10461	Hertford	3	US-258 E / US 258 NORTH	FROM BRIDGE #9 (MEHERRIN RIVER) TO SR 1306 (PARKERS FERRY RD.)		2	2WU	4.691	25	4.390	9.081	*		50		68,801	1,311		6,236	368	10	106.00	24,763	49,526	
2026CPT.01.10.10461	Hertford	4	US-258 E / US 258 NORTH	FROM SR 1306 (PARKERS FERRY RD.) TO SR 1319 (MILL NECK RD.)		2	2WU	2.390	25	9.081	11.471	*		27		35,053	1,100		3,191	188		90.00	12,619	25,238	
2026CPT.01.10.10461	Hertford	5	US-258 E / US 258 NORTH	FROM SR 1319 (MILL NECK RD.) TO VIRGINIA STATE LINE		2	2WU	2.499	25	11.471	13.970	*		31		36,652	2,127		3,421	203	32	160.00	13,195	26,389	
2026CPT.01.10.10461	Hertford	6	US-158 BUS E / US 158-258 BUSINESS	FROM US 158 TO SR 1300 (WISES STORE RD.)		2	2WD	0.710	38	0.000	0.710	*				15,828	246		1,458	89	62	14.00			20
2026CPT.01.10.10461	Hertford	7	US-158 BUS E / US 158-258 BUSINESS/VIRGINIA BLVD/EAST MAIN STREET/US 158 BUS	FROM SR 1300 (WISES STORE RD) TO END C&G		2	2WD	2.605	42	0.710	3.315	*				64,187	4,643		6,124	362	21	52.00			20
2026CPT.01.10.10461	Hertford	8	US-158 BUS E / US 158 BUS	FROM END C&G TO US 158		2	2WD	0.748	29	3.315	4.063	*				12,726	1,954		1,292	76	2				
2026CPT.01.10.10461	Hertford	9	RMP-31 / VIRGINIA BLVD	FROM US 258 TO US 158 BUS. (MAIN ST.)		2	1WU	0.150	16	0.000	0.150	*				1,306	275		125	7					
TOTAL FOR PROJ NO. 2026CPT.01.10.10461								**15.545**				*		**108**		**266,963**	**13,782**		**24,580**	**1,454**	**127**	**422.00**	**50,577**	**101,153**	**72**
2026CPT.01.10.10661	Northampton	10	US-158 BUS E / US 258 HWY	FROM US 158 TO HERTFORD CO		2	2WU	0.310	38	0.100	0.340	*				5,350	3,421		773	46		5.00			
TOTAL FOR PROJ NO. 2026CPT.01.10.10661								**0.310**				*				**5,350**	**3,421**		**773**	**46**		**5.00**			
												*													
2026CPT.01.10.20461	Hertford	11	SR-1179 / UNION STREET	FROM MAIN ST TO HIGH ST		2	2WU	0.150	27	0.000	0.150	*				2,376	861	282		18	2				
2026CPT.01.10.20461	Hertford	12	SR-1308 / GATLING ROAD	FROM SR 1310 (STATESVILLE RD.) TO US 258		2	2WU	1.030	20	0.000	1.030	*	185	20	2.06		184	1,053		70	23				
2026CPT.01.10.20461	Hertford	13	HERTFORD COUNTY MIDDLE SCHOOL	HERTFORD COUNTY MIDDLE SCHOOL BUS PARKING LOT		2	PL	0.250	52	0.000	0.250	*				7,290		632		42	9				
TOTAL FOR PROJ NO. 2026CPT.01.10.20461								**1.430**				*	**185**	**20**	**2.06**	**9,666**	**1,045**	**1,967**		**130**	**34**				
2026CPT.01.10.20462	Hertford	14	SR-1157 / CHARLIE POWELL ROAD	FROM SR 1166 (STOREY RD.) TO US 158		2	2WU	0.430	20	0.000	0.380	*		13				340		22					
2026CPT.01.10.20462	Hertford	15	SR-1157 / CHARLIE POWELL ROAD	FROM NORTHAMPTON CO TO US 158		2	2WU	0.559	20	0.430	0.989	*		11				476		31					
2026CPT.01.10.20462	Hertford	16	SR-1166 / POWELL ROAD/STOREY ROAD	FROM SR 1160 (SPRING AVE.) TO SR 1157 (POWELL RD.)		2	2WU	0.330	20	0.000	0.330	*		12			912	312		20					
TOTAL FOR PROJ NO. 2026CPT.01.10.20462								**1.319**				*		**36**			**912**	**1,128**		**73**					
GRAND TOTAL								**18.604**				**1**	**185**	**164**	**2.06**	**281,979**	**19,160**	**3,095**	**25,353**	**1,703**	**161**	**427.00**	**50,577**	**101,153**	**72**

SUMMARY OF QUANTITIES

												2830000000-N	2845000000-N	3030000000-E	3045000000-E	3180000000-N	3195000000-N	3210000000-N	3436000000-N	3287000000-N	3288000000-N	3360000000-E	4898000000-N	6084000000-E	6117000000-N
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	ADJUSTMENT OF MANHOLES	ADJUSTMENT OF METER OR VALVE BOXES	STEEL BEAM GUARDRAIL	SBGR, SHOP CURVED	GUARDRAIL ANCHOR UNITS, TYPE B-77	GR ANCH AT-1	GR ANCH CAT-1	GENERIC GUARDRAIL ITEM (BASE PLATE GUARDRAIL POSTS-BOX CULVERT)	GUARDRAIL END UNITS, TYPE TL-3 (SP)	GUARDRAIL END UNITS, TYPE TL-2 (SP)	REMOVE EXISTING GUARDRAIL	GENERIC PAVEMENT MARKING ITEM (POLYCARBONATE H-SHAPED MARKERS)	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL
								MI	FT			EA	EA	LF	LF	EA	EA	EA	EA	EA	EA	LF	EA	ACR	EA
2026CPT.01.10.10461	Hertford	1	US-258 E / NC HWY 11 NORTH/BEECHWOOD BLVD	FROM US 158 TO BEGIN C&G		2	2WU	1.232	24	2.580	3.700												74		
2026CPT.01.10.10461	Hertford	2	US-258 E / BEECHWOOD BLVD/VIRGINIA BLVD	FROM BEGIN C&G TO BRIDGE #9 (MEHERRIN RIVER)		2	2WU	0.520	45	3.700	4.220		1	225.00	50.00	2.00	1.00				1	368.00	35		
2026CPT.01.10.10461	Hertford	3	US-258 E / US 258 NORTH	FROM BRIDGE #9 (MEHERRIN RIVER) TO SR 1306 (PARKERS FERRY RD.)		2	2WU	4.691	25	4.390	9.081			1,050.00		2.00		1.00		3		1,244.00	310		
2026CPT.01.10.10461	Hertford	4	US-258 E / US 258 NORTH	FROM SR 1306 (PARKERS FERRY RD.) TO SR 1319 (MILL NECK RD.)		2	2WU	2.390	25	9.081	11.471												158		
2026CPT.01.10.10461	Hertford	5	US-258 E / US 258 NORTH	FROM SR 1319 (MILL NECK RD.) TO VIRGINIA STATE LINE		2	2WU	2.499	25	11.471	13.970												165		
2026CPT.01.10.10461	Hertford	6	US-158 BUS E / US 158-258 BUSINESS	FROM US 158 TO SR 1300 (WISES STORE RD.)		2	2WD	0.710	38	0.000	0.710												94		
2026CPT.01.10.10461	Hertford	7	US-158 BUS E / US 158-258 BUSINESS/VIRGINIA BLVD/EAST MAIN STREET/US 158 BUS	FROM SR 1300 (WISES STORE RD) TO END C&G		2	2WD	2.605	42	0.710	3.315	5	5										345		
2026CPT.01.10.10461	Hertford	8	US-158 BUS E / US 158 BUS	FROM END C&G TO US 158		2	2WD	0.748	29	3.315	4.063												50		
2026CPT.01.10.10461	Hertford	9	RMP-31 / VIRGINIA BLVD	FROM US 258 TO US 158 BUS. (MAIN ST.)		2	1WU	0.150	16	0.000	0.150			300.00				1.00			1	350.00			
TOTAL FOR PROJ NO. 2026CPT.01.10.10461								**15.545**				**5**	**6**	**1,575.00**	**50.00**	**4.00**	**1.00**	**2.00**		**3**	**2**	**1,962.00**	**1,231**		
2026CPT.01.10.10661	Northampton	10	US-158 BUS E / US 258 HWY	FROM US 158 TO HERTFORD CO		2	2WU	0.310	38	0.100	0.340			163.00				2.00	10	2		263.00	32		
TOTAL FOR PROJ NO. 2026CPT.01.10.10661								**0.310**						**163.00**				**2.00**	**10**	**2**		**263.00**	**32**		
2026CPT.01.10.20461	Hertford	11	SR-1179 / UNION STREET	FROM MAIN ST TO HIGH ST		2	2WU	0.150	27	0.000	0.150	1	1												
2026CPT.01.10.20461	Hertford	12	SR-1308 / GATLING ROAD	FROM SR 1310 (STATESVILLE RD.) TO US 258		2	2WU	1.030	20	0.000	1.030													1.0	1
2026CPT.01.10.20461	Hertford	13	HERTFORD COUNTY MIDDLE SCHOOL	HERTFORD COUNTY MIDDLE SCHOOL BUS PARKING LOT		2	PL	0.250	52	0.000	0.250														
TOTAL FOR PROJ NO. 2026CPT.01.10.20461								**1.430**				**1**	**1**											**1.0**	**1**
2026CPT.01.10.20462	Hertford	14	SR-1157 / CHARLIE POWELL ROAD	FROM SR 1166 (STOREY RD.) TO US 158		2	2WU	0.380	20	0.000	0.380														
2026CPT.01.10.20462	Hertford	15	SR-1157 / CHARLIE POWELL ROAD	FROM NORTHAMPTON CO TO US 158		2	2WU	0.559	20	0.430	0.989														
2026CPT.01.10.20462	Hertford	16	SR-1166 / POWELL ROAD/STOREY ROAD	FROM SR 1160 (SPRING AVE.) TO SR 1157 (POWELL RD.)		2	2WU	0.330	20	0.000	0.330	3	1												
TOTAL FOR PROJ NO. 2026CPT.01.10.20462								**1.319**				**3**	**1**												
GRAND TOTAL								**18.604**				**9**	**8**	**1,738.00**	**50.00**	**4.00**	**1.00**	**4.00**	**10**	**5**	**2**	**2,225.00**	**1,263**	**1.0**	**1**

PROJECT NO.	SHEET NO.	TOTAL NO.
2026CPT.01.10.10461, ETC.	18	

THERMOPLASTIC AND PAINT QUANTITIES

													4413000000-E	4457000000-N	4685000000-E		4688000000-E		4700000000-E	4709000000-E	4720000000-E		4725000000-E					
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP		WORK ZONE ADVANCE/GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL (SP)	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (12", 90 MILS)	THERMOPLASTIC PAVEMENT MARKING LINES (24" 90 MILS)	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS), SCHOOL	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS), STOP AHEAD	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), LT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), STR ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), RT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), MERGE ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), STR & RT ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), LT STR & RT ARROW
								MI	FT				SF	LS	LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA
2026CPT.01.10.10461	Hertford	1	US-258 E / NC HWY 11 NORTH/BEECHWOOD BLVD	FROM US 158 TO BEGIN C&G		2	2WU	1.12	24	2.58	3.7		59	1			11,827	7,392		88	12		6					
2026CPT.01.10.10461	Hertford	2	US-258 E / BEECHWOOD BLVD/VIRGINIA BLVD	FROM BEGIN C&G TO BRIDGE #9 (MEHERRIN RIVER)		2	2WU	0.52	45	3.7	4.22		32	*			1,500	6,046		140			11	9	7	3		
2026CPT.01.10.10461	Hertford	3	US-258 E / US 258 NORTH	FROM BRIDGE #9 (MEHERRIN RIVER) TO SR 1306 (PARKERS FERRY RD.)		2	2WU	4.691	25	4.39	9.081		128	*			50,464	30,960		44								
2026CPT.01.10.10461	Hertford	4	US-258 E / US 258 NORTH	FROM SR 1306 (PARKERS FERRY RD.) TO SR 1319 (MILL NECK RD.)		2	2WU	2.39	25	9.081	11.471		64	*			25,238	15,774		100								
2026CPT.01.10.10461	Hertford	5	US-258 E / US 258 NORTH	FROM SR 1319 (MILL NECK RD.) TO VIRGINIA STATE LINE		2	2WU	2.499	25	11.471	13.97		91	*			26,389	16,493		140								
2026CPT.01.10.10461	Hertford	6	US-158 BUS E / US 158-258 BUSINESS	FROM US 158 TO SR 1300 (WISES STORE RD.)		2	2WD	0.71	38	0	0.71		32	*			7,498	9,372		25			25					
2026CPT.01.10.10461	Hertford	7	US-158 BUS E / US 158-258 BUSINESS/VIRGINIA BLVD/EAST MAIN STREET/US 158 BUS	FROM SR 1300 (WISES STORE RD) TO END C&G		2	2WD	2.605	42	0.71	3.315		96	*			3,605	34,386	227	1,352	6		94		4		1	
2026CPT.01.10.10461	Hertford	8	US-158 BUS E / US 158 BUS	FROM END C&G TO US 158		2	2WD	0.748	29	3.315	4.063		27	*			7,899	7,899	46	76	6	9	2		2			
2026CPT.01.10.10461	Hertford	9	RMP-31 / VIRGINIA BLVD	FROM US 258 TO US 158 BUS. (MAIN ST.)		2		0.15	16	0	0.15			*			792		296								
TOTAL FOR PROJ NO. 2026CPT.01.10.10461								**15.433**					**529**	*			**135,212**	**128,322**	**569**	**1,965**	**24**	**9**	**138**	**9**	**13**	**3**	**1**	
																	263,534				**33**		**164**					
2026CPT.01.10.10661	Northampton	10	US-158 BUS E / US 258 HWY	FROM US 158 TO HERTFORD CO		2	2WU	0.24	38	0.1	0.34		27	*			2,534	3,168					7					
TOTAL FOR PROJ NO. 2026CPT.01.10.10661								**0.24**					**27**	*			**2,534**	**3,168**					**7**					
																	5,702						**7**					
2026CPT.01.10.20461	Hertford	11	SR-1179 / UNION STREET	FROM MAIN ST TO HIGH ST		2	2WU	0.15	27	0	0.15		48	*	1,584					132			1					2
2026CPT.01.10.20461	Hertford	12	SR-1308 / GATLING ROAD	FROM SR 1310 (STATESVILLE RD.) TO US 258		2	2WU	1.03	20	0	1.03		48	*	6,798	10,877				14								
2026CPT.01.10.20461	Hertford	13	HERTFORD COUNTY MIDDLE SCHOOL	HERTFORD COUNTY MIDDLE SCHOOL BUS PARKING LOT		2		0.25	52	0	0.25			*		2,005											
TOTAL FOR PROJ NO. 2026CPT.01.10.20461								**1.43**					**96**	*	**8,382**	**12,882**				**146**			**1**					**2**
															21,264								**3**					
2026CPT.01.10.20462	Hertford	14	SR-1157 / CHARLIE POWELL ROAD	FROM SR 1166 (STOREY RD.) TO US 158		2	2WU	0.38	20	0	0.38			*	4,013	4,013												
2026CPT.01.10.20462	Hertford	15	SR-1157 / CHARLIE POWELL ROAD	FROM NORTHAMPTON CO TO US 158		2	2WU	0.559	20	0.43	0.989			*	5,903	5,903												
2026CPT.01.10.20462	Hertford	16	SR-1166 / POWELL ROAD/STOREY ROAD	FROM SR 1160 (SPRING AVE.) TO SR 1157 (POWELL RD.)		2	2WU	0.33	20	0	0.33			*	3,485	3,051												
TOTAL FOR PROJ NO. 2026CPT.01.10.20462								**1.269**						*	**13,401**	**12,967**												
															26,368													
GRAND TOTAL								**18.372**					**652**	**1**	**21,783**	**25,849**	**137,746**	**131,490**	**569**	**2,111**	**24**	**9**	**146**	**9**	**13**	**3**	**1**	**2**
															47,632		**269,236**				**33**		**174**					

THERMOPLASTIC AND PAINT QUANTITIES

												4810000000-E		4825000000-E	4835000000-E	4840000000-N		4845000000-N							4891000000-E
PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	PAINT PAVEMENT MARKING LINES (4") WHITE	PAINT PAVEMENT MARKING LINES (4") YELLOW	PAINT PAVEMENT MARKING LINES (12")	PAINT PAVEMENT MARKING LINES (24")	PAINT PAVEMENT MARKING CHARACTER (MSG SCHOOL)	PAINT PAVEMENT MARKING CHARACTER (MSG STOP AHEAD)	PAINT PAVEMENT MARKING SYMBOL (LT ARROW)	PAINT PAVEMENT MARKING SYMBOL (STR ARROW)	PAINT PAVEMENT MARKING SYMBOL (RT ARROW)	PAINT PAVEMENT MARKING SYMBOL (MERGE ARROW)	PAINT PAVEMENT MARKING SYMBOL (STR & RT ARROW)	PAINT PAVEMENT MARKING SYMBOL (LT STR RT ARROW)	GENERIC PAVEMENT MARKING ITEM, YIELD LINE THERMOPLASTIC PAVEMENT MARKINGS , 24", 90 MILS
								MI	FT			LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	LF
2026CPT.01.10.10461	Hertford	1	US-258 E / NC HWY 11 NORTH/BEECHWOOD BLVD	FROM US 158 TO BEGIN C&G		2	2WU	1.12	24	2.58	3.7	11,827	7,392		88	12		6							
2026CPT.01.10.10461	Hertford	2	US-258 E / BEECHWOOD BLVD/VIRGINIA BLVD	FROM BEGIN C&G TO BRIDGE #9 (MEHERRIN RIVER)		2	2WU	0.52	45	3.7	4.22	1,500	6,046		140			11	9	7	3				28.00
2026CPT.01.10.10461	Hertford	3	US-258 E / US 258 NORTH	FROM BRIDGE #9 (MEHERRIN RIVER) TO SR 1306 (PARKERS FERRY RD.)		2	2WU	4.691	25	4.39	9.081	50,464	30,960		44										
2026CPT.01.10.10461	Hertford	4	US-258 E / US 258 NORTH	FROM SR 1306 (PARKERS FERRY RD.) TO SR 1319 (MILL NECK RD.)		2	2WU	2.39	25	9.081	11.471	25,238	15,774		100										
2026CPT.01.10.10461	Hertford	5	US-258 E / US 258 NORTH	FROM SR 1319 (MILL NECK RD.) TO VIRGINIA STATE LINE		2	2WU	2.499	25	11.471	13.97	26,389	16,493		140										
2026CPT.01.10.10461	Hertford	6	US-158 BUS E / US 158-258 BUSINESS	FROM US 158 TO SR 1300 (WISES STORE RD.)		2	2WD	0.71	38	0	0.71	7,498	9,372		25			25							
2026CPT.01.10.10461	Hertford	7	US-158 BUS E / US 158-258 BUSINESS/VIRGINIA BLVD/EAST MAIN STREET/US 158 BUS	FROM SR 1300 (WISES STORE RD) TO END C&G		2	2WD	2.605	42	0.71	3.315	3,605	34,386	227	1,352	6		94		4		1			
2026CPT.01.10.10461	Hertford	8	US-158 BUS E / US 158 BUS	FROM END C&G TO US 158		2	2WD	0.748	29	3.315	4.063	7,899	7,899	46	76	6	9	2		2					
2026CPT.01.10.10461	Hertford	9	RMP-31 / VIRGINIA BLVD	FROM US 258 TO US 158 BUS. (MAIN ST.)		2		0.15	16	0	0.15	792		296											14.00
TOTAL FOR PROJ NO. 2026CPT.01.10.10461								**15.433**				**135,212**	**128,322**	**569**	**1,965**	**24**	**9.00**	**138**	**9**	**13**	**3**	**1**			**42.00**
												263,534				**33**		**164**							
2026CPT.01.10.10661	Northampton	10	US-158 BUS E / US 258 HWY	FROM US 158 TO HERTFORD CO		2	2WU	0.24	38	0.1	0.34	2,534	3,168					7							
TOTAL FOR PROJ NO. 2026CPT.01.10.10661								**0.24**				**2,534**	**3,168**					**7**							
												5,702						**7**							
2026CPT.01.10.20461	Hertford	11	SR-1179 / UNION STREET	FROM MAIN ST TO HIGH ST		2	2WU	0.15	27	0	0.15		1,584		132			1				2		
2026CPT.01.10.20461	Hertford	12	SR-1308 / GATLING ROAD	FROM SR 1310 (STATESVILLE RD.) TO US 258		2	2WU	1.03	20	0	1.03	10,877	6,798		14									
2026CPT.01.10.20461	Hertford	13	HERTFORD COUNTY MIDDLE SCHOOL	HERTFORD COUNTY MIDDLE SCHOOL BUS PARKING LOT		2		0.25	52	0	0.25	2,005												
TOTAL FOR PROJ NO. 2026CPT.01.10.20461								**1.43**				**12,882**	**8,382**		**146**			**1**				**2**		
												21,264						**3**						
2026CPT.01.10.20462	Hertford	14	SR-1157 / CHARLIE POWELL ROAD	FROM SR 1166 (STOREY RD.) TO US 158		2	2WU	0.38	20	0	0.38	4,013	4,013											
2026CPT.01.10.20462	Hertford	15	SR-1157 / CHARLIE POWELL ROAD	FROM NORTHAMPTON CO TO US 158		2	2WU	0.559	20	0.43	0.989	5,903	5,903											
2026CPT.01.10.20462	Hertford	16	SR-1166 / POWELL ROAD/STOREY ROAD	FROM SR 1160 (SPRING AVE.) TO SR 1157 (POWELL RD.)		2	2WU	0.33	20	0	0.33	3,051	3,485											
TOTAL FOR PROJ NO. 2026CPT.01.10.20462								**1.269**				**12,967**	**13,401**											
												26,368												
GRAND TOTAL								**18.372**				**163,595**	**153,273**	**569**	**2,111**	**24**	**9**	**146**	**9**	**13.00**	**3**	**1**	**2**	**42**
												316,868				**33**		**174**						

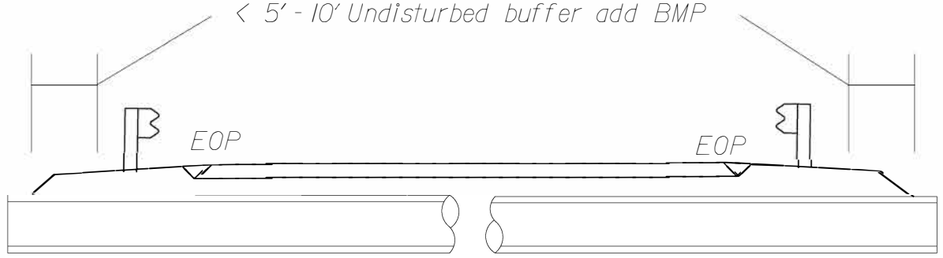
PROJECT REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	EC-1

EROSION CONTROL DETAIL

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

BMP Options: Wattle or Silt Fence

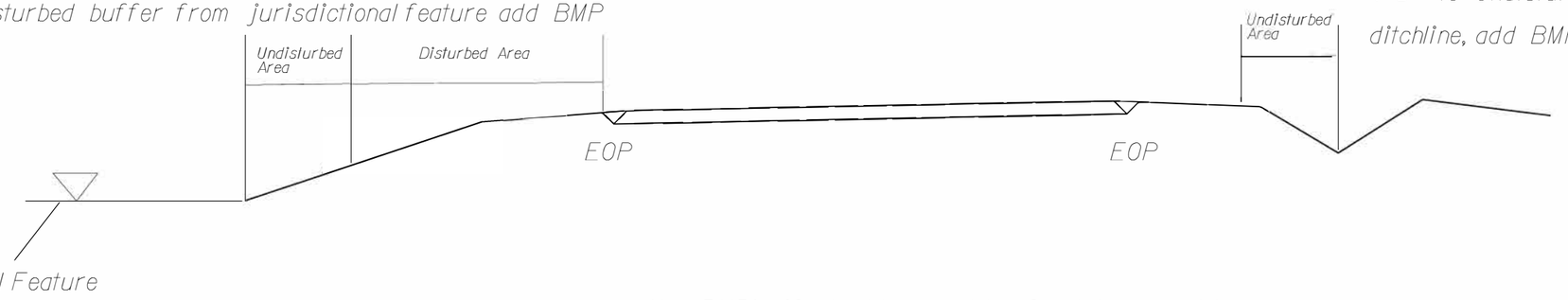
< 5' - 10' Undisturbed buffer add BMP



Pipe/Culvert

< 5' - 10' Undisturbed buffer from jurisdictional feature add BMP

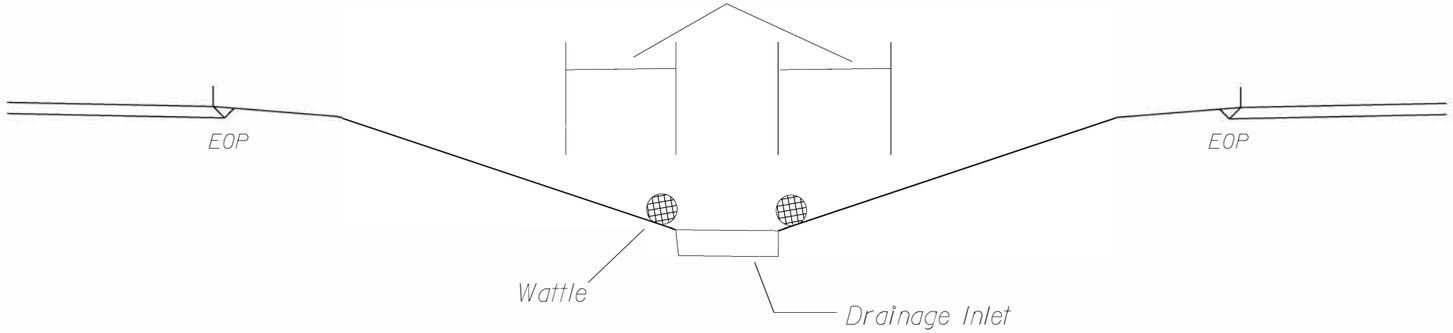
< 5' - 10' Undisturbed buffer from ditchline, add BMP



Jurisdictional Feature

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.
2026CPT.01.10.10461, ETC.	EC-2

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

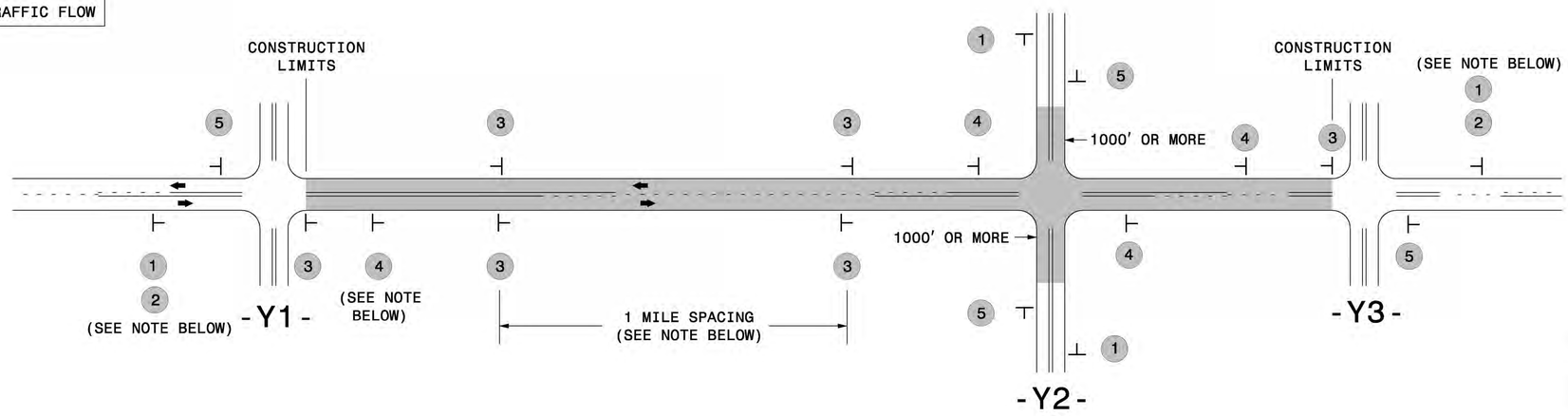
SOIL STABILIZATION TIMEFRAMES

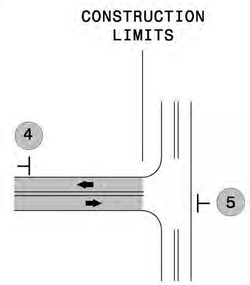
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

PROJ. REFERENCE NO.	SHEET NO.
2026CPT.01.10.10461, ETC.	TMP-1

SIGNING FOR RESURFACING PROJECTS

LEGEND
- ⊢ STATIONARY SIGN
- ⬅ DIRECTION OF TRAFFIC FLOW





TEE INTERSECTION

MAINLINE (-L-) SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION

1 & 2 — ROAD WORK AHEAD W20-1 48″ X 48″ / NEXT XX MILES W7-3aP 24″ X 18″

PLACE 1000′ PRIOR TO BEGINNING OF CONSTRUCTION LIMITS.
ONLY USED ON -Y- LINES IF RESURFACING LIMITS EXTEND 1000′ ALONG -Y- LINE.

#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.

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.

-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.

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:\TMD\WZTC\Resurfacing\2L2W & AST Resurfacing Details\Resurfacing_AdvWarn_2Ln.dgn
User:keddis