

WBS NO: 2027CPT.01.01.10891, ETC.

CONTRACT: DA00682

STATE OF NORTH CAROLINA

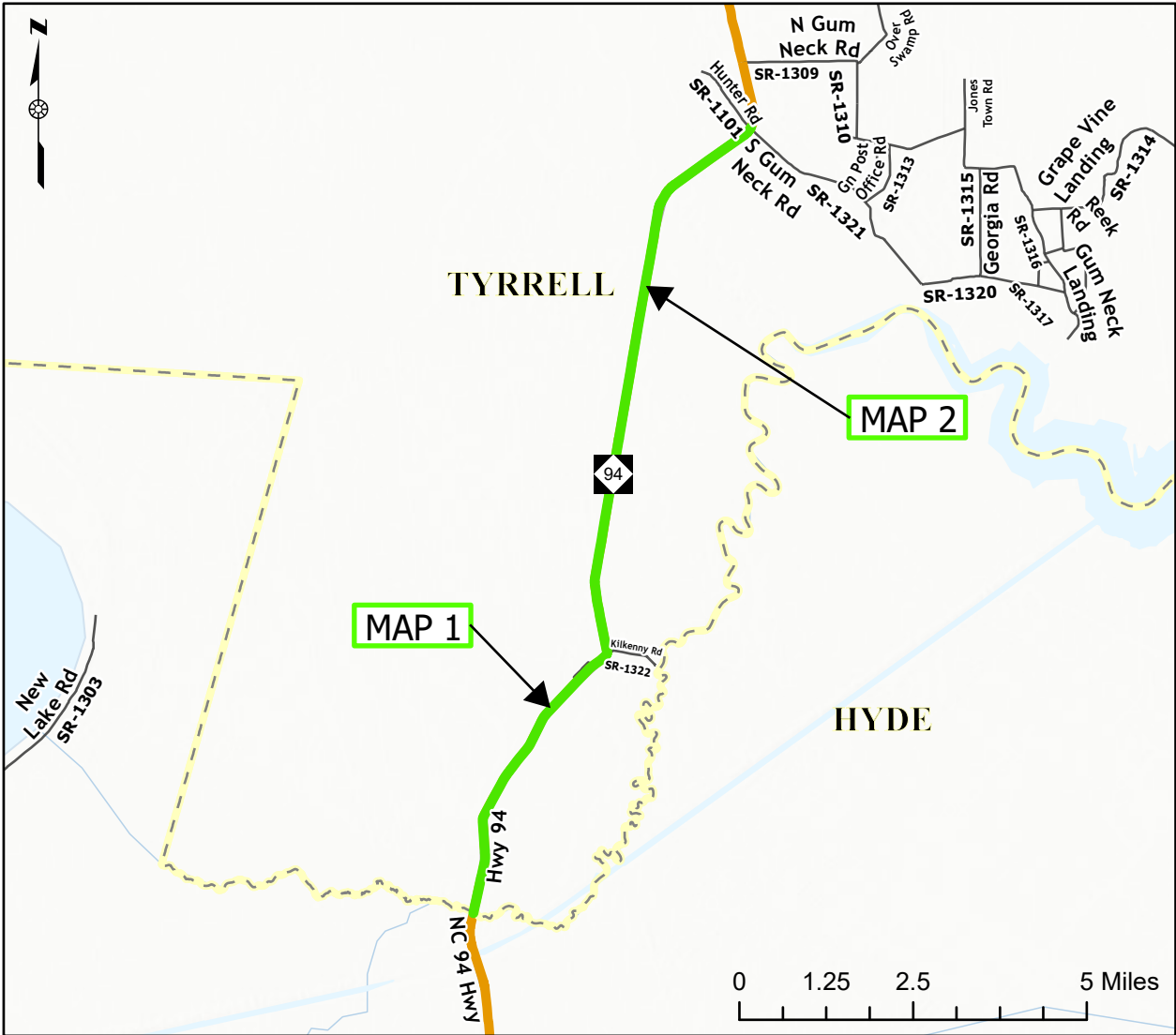
DIVISION OF HIGHWAYS

TYRRELL

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.01.01.10891, ETC.	1
STATE PROJECT NUMBER		DESCRIPTION
2027CPT.01.01.10891		P.E., CONST.

TYPE OF WORK: MILLING, RESURFACING, & SHOULDER RECONSTRUCTION

MAP	ROUTE	FROM	TO
01	NC 94	Hyde Co	MP 6.1
02	NC 94	MP 6.1	SR 1321 (S.GumneckRd.)



PROJECT LENGTH		Prepared in the Office of: DIVISION OF HIGHWAYS 113 AIRPORT DR., EDENTON, NC 27932								
<table border="1"><tr><td>MAP</td><td>MILES</td></tr><tr><td>01</td><td>6.1</td></tr><tr><td>02</td><td>4.19</td></tr></table>		MAP	MILES		01	6.1	02	4.19	<u>B. N. BRASWELL, PE</u> <i>DIV. PROJ. DEVELOPMENT ENGINEER</i> <u>M. S. WINSLOW</u> <i>DIVISION CONTRACT ENGINEER</i>	<u>D. J. CLODGO, PE, PMP</u> <i>DIVISION PROJECT TEAM LEAD</i> <u>D. H. STALLINGS</u> <i>DIVISION DESIGN ENGINEER</i>
MAP	MILES									
01	6.1									
02	4.19									

WBS NO: 2027CPT.01.01.10891, ETC.

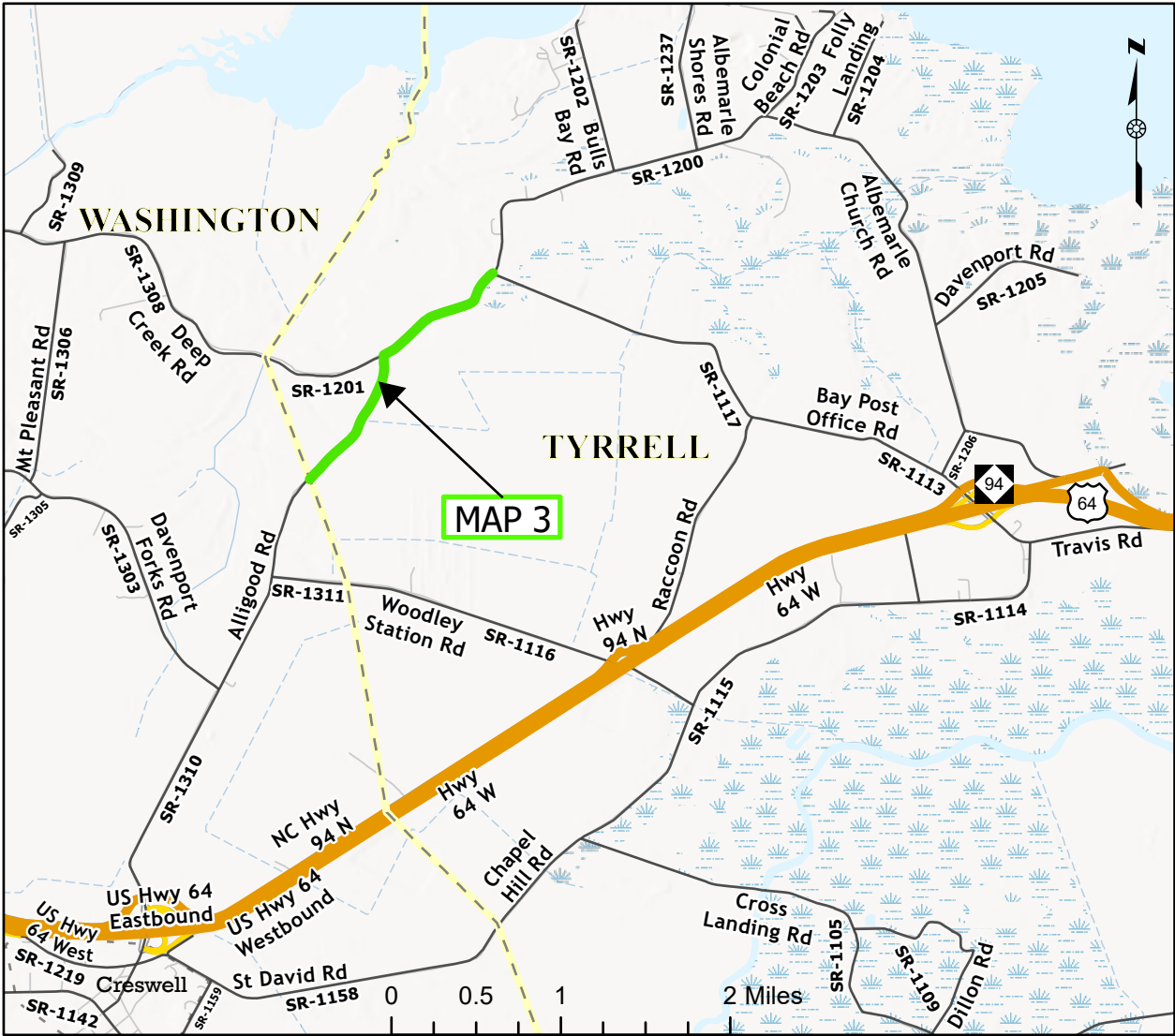
CONTRACT: DA00682

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
TYRRELL

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.01.01.10891, ETC.	2
STATE PROJECT NUMBER		DESCRIPTION
2027CPT.01.01.20891		P.E., CONST.

TYPE OF WORK: RESURFACING & SHOULDER RECONSTRUCTION

MAP	ROUTE	FROM	TO
03	SR 1200 (Albemarle Church Rd.)	Washington Co	SR 1117 (Bay Post Office Rd.)



PROJECT LENGTH

MAP	MILES
03	1.39

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



WBS NO: 2027CPT.01.01.10891, ETC.

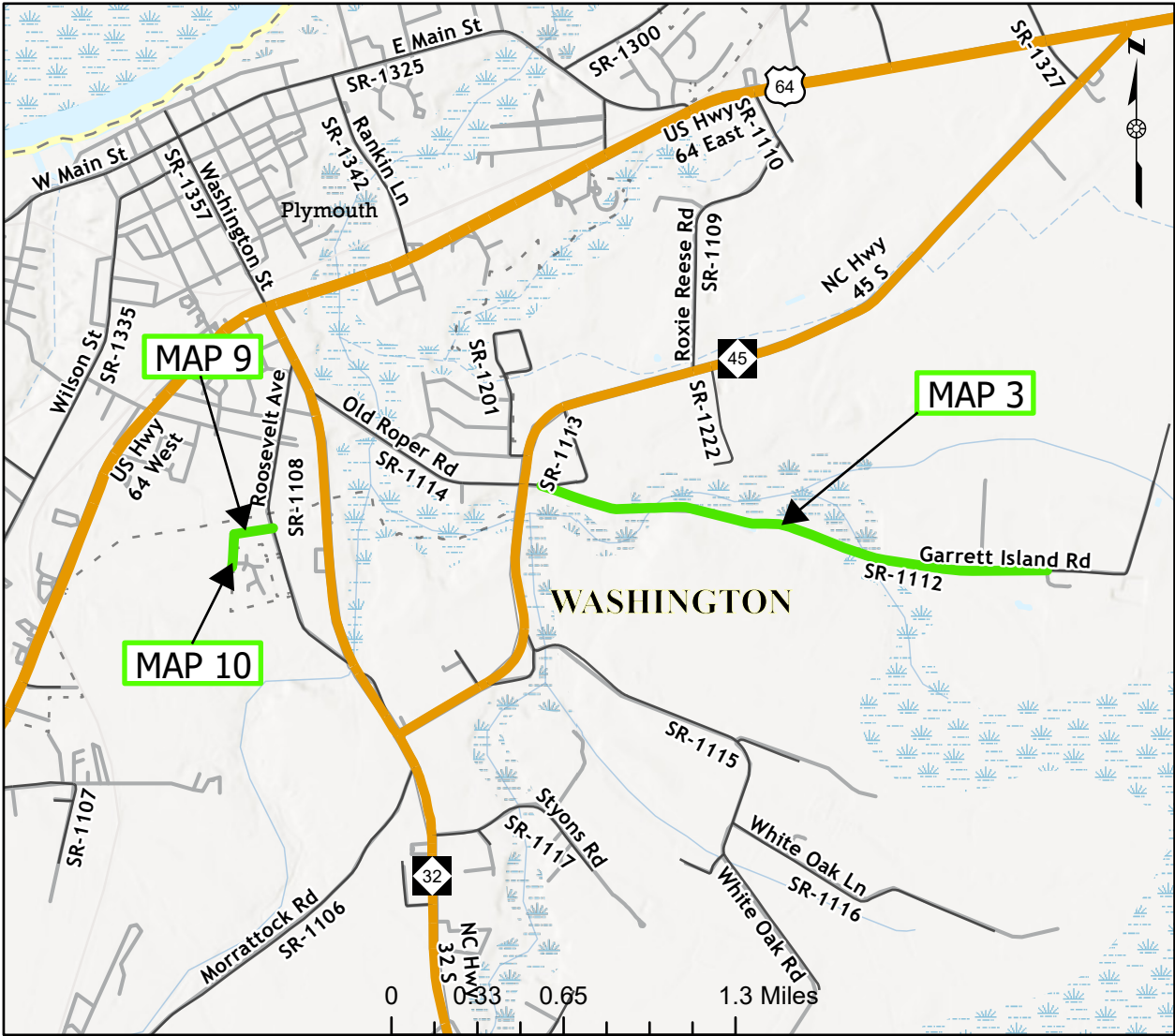
CONTRACT: DA00682

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
WASHINGTON

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.01.01.10891, ETC.	3
STATE PROJECT NUMBER		DESCRIPTION
2027CPT.01.01.20941		P.E., CONST.

TYPE OF WORK: RESURFACING & SHOULDER RECONSTRUCTION

MAP	ROUTE	FROM	TO
04	SR 1112 (Garrett Island Rd.)	SR 1113 (Old Roper Loop)	End Of Pavement
09	SR 1210 (Ausbon Dr.)	SR 1108 (Rosevelt Avenue)	SR 1211 (Buncombe Drive)
10	SR 1211 (Buncombe Dr.)	SR 1210 (Ausbon Dr.)	EOM



PROJECT LENGTH

MAP	MILES
04	1.59
09	0.12
10	0.1

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



CONTRACT: DA00682

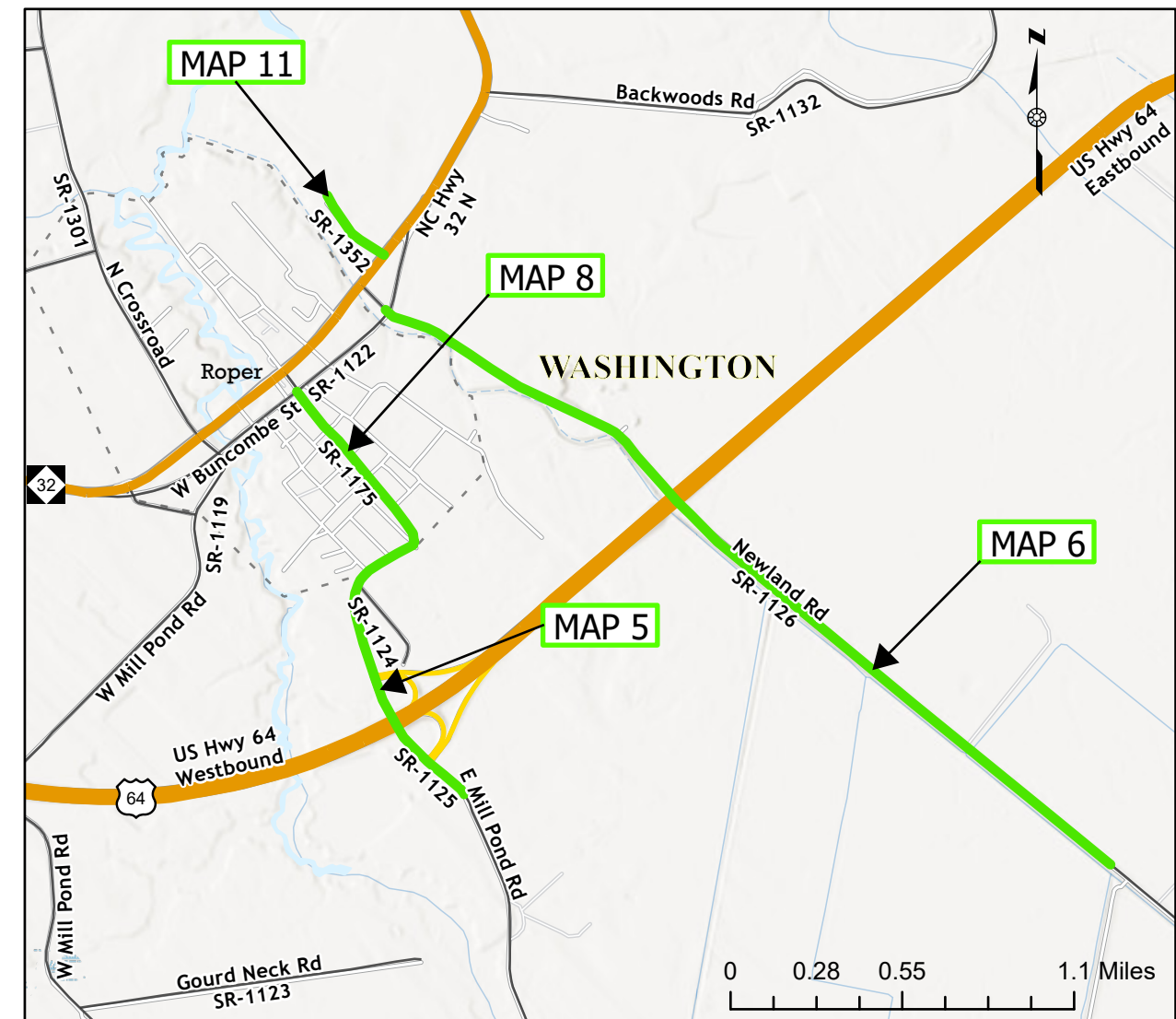
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

WASHINGTON

TYPE OF WORK: MILLING, RESURFACING & SHOULDER RECONSTRUCTION

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.01.01.10891, ETC.	4
STATE PROJECT NUMBER		DESCRIPTION
2027CPT.01.01.20941		P.E., CONST.

MAP	ROUTE	FROM	TO
05	SR 1125 (E Millpond Rd.)	SR 1175 (S Railroad St.)	1300' South of US 64
06	SR 1126 (Newland Rd.)	SR-1122 (E. Buncombe St.)	1.17MI West of SR 1180 (B Canal Rd.)
08	SR 1175 (S Railroad St.)	SR 1122 (E Buncombe St)	SR 1125 (E Millpond Rd.)
11	SR 1352 (Griffin Rd.)	NC 32	Cul-de-sac



<i>PROJECT LENGTH</i>		Prepared in the Office of: <i>DIVISION OF HIGHWAYS</i> 113 AIRPORT DR., EDENTON, NC 27932											
<table><tr><th>MAP</th><th>MILES</th></tr><tr><td>05</td><td>0.83</td></tr><tr><td>06</td><td>2.39</td></tr><tr><td>08</td><td>0.5</td></tr><tr><td>11</td><td>0.218</td></tr></table>		MAP	MILES		05	0.83	06	2.39	08	0.5	11	0.218	<u>B. N. BRASWELL, PE</u> <i>DIV. PROJ. DEVELOPMENT ENGINEER</i> <u>M. S. WINSLOW</u> <i>DIVISION CONTRACT ENGINEER</i> <u>D. J. CLODGO, PE, PMP</u> <i>DIVISION PROJECT TEAM LEAD</i> <u>D. H. STALLINGS</u> <i>DIVISION DESIGN ENGINEER</i>
MAP	MILES												
05	0.83												
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WBS NO: 2027CPT.01.01.10891, ETC.

CONTRACT: DA00682

STATE OF NORTH CAROLINA

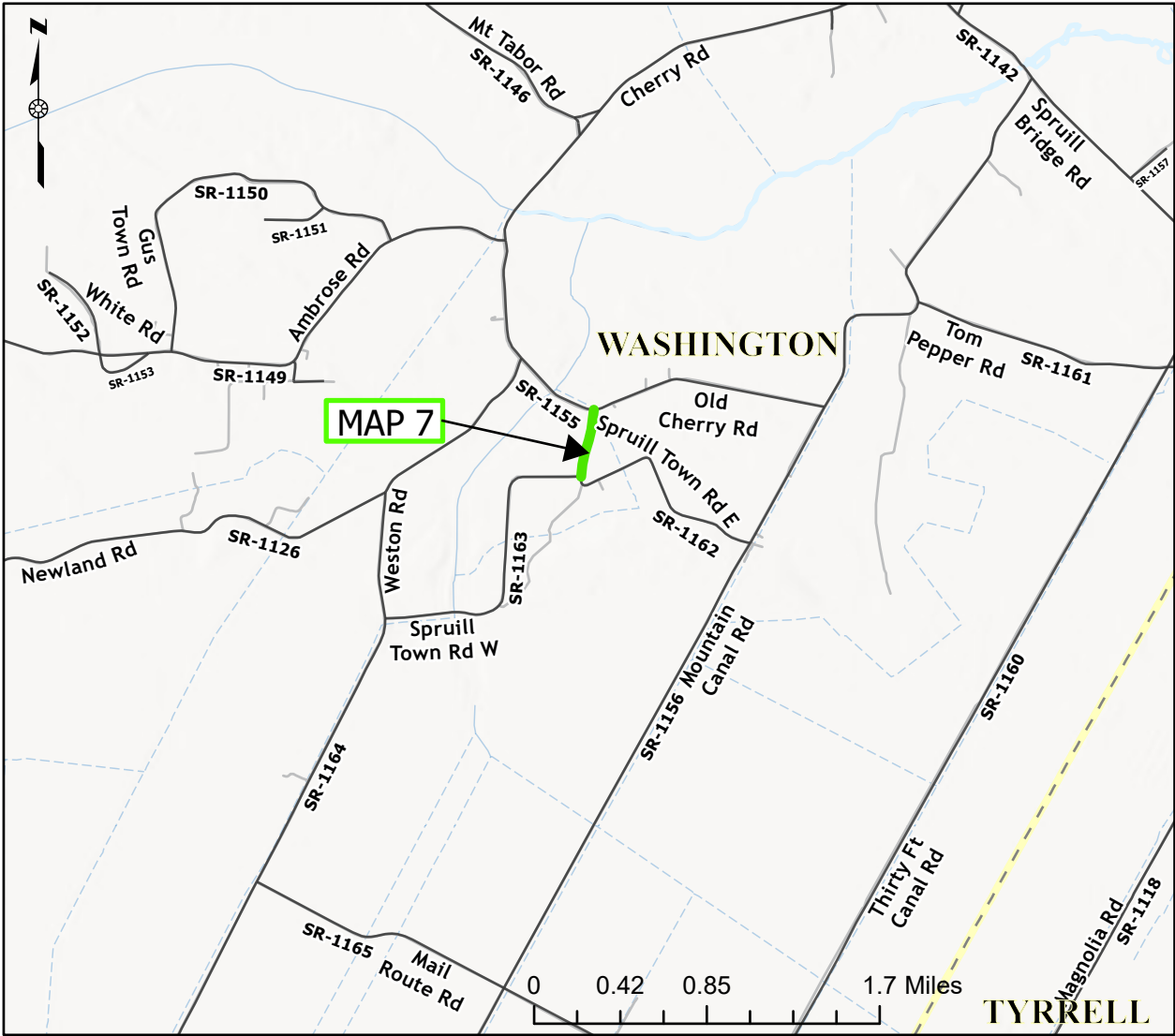
DIVISION OF HIGHWAYS

WASHINGTON

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	2027CPT.01.01.10891, ETC.	5
STATE PROJECT NUMBER		DESCRIPTION
2027CPT.01.01.20941		P.E., CONST.

TYPE OF WORK: RESURFACING & SHOULDER RECONSTRUCTION

MAP	ROUTE	FROM	TO
07	SR-1162 (Spruill Town E Rd.)	SR-1155 (Old Cherry Rd.)	End of Pavement



PROJECT LENGTH		Prepared in the Office of: DIVISION OF HIGHWAYS 113 AIRPORT DR., EDENTON, NC 27932					
		B. N. BRASWELL, PE <i>DIV. PROJ. DEVELOPMENT ENGINEER</i>	D. J. CLODGO, PE, PMP <i>DIVISION PROJECT TEAM LEAD</i>				
<table border="1"><tr><td>MAP</td><td>MILES</td></tr><tr><td>07</td><td>0.27</td></tr></table>		MAP	MILES		07	0.27	M. S. WINSLOW <i>DIVISION CONTRACT ENGINEER</i>
MAP	MILES						
07	0.27						

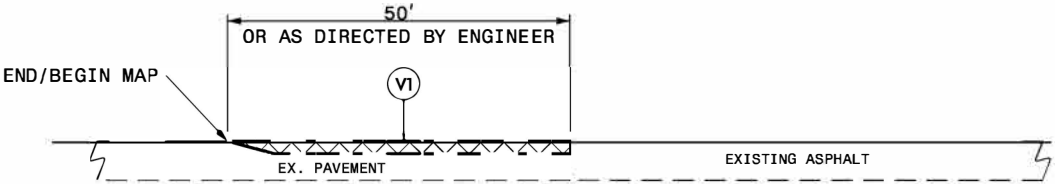
PAVEMENT SCHEDULE

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
T	SHOULDER RECONSTRUCTION
M1	PROP. APPROX. 18" SINUSOIDAL RUMBLE STRIPS (CENTERLINE)
M2	PROP. APPROX. 8" SINUSOIDAL RUMBLE STRIPS (EDGE LINES)

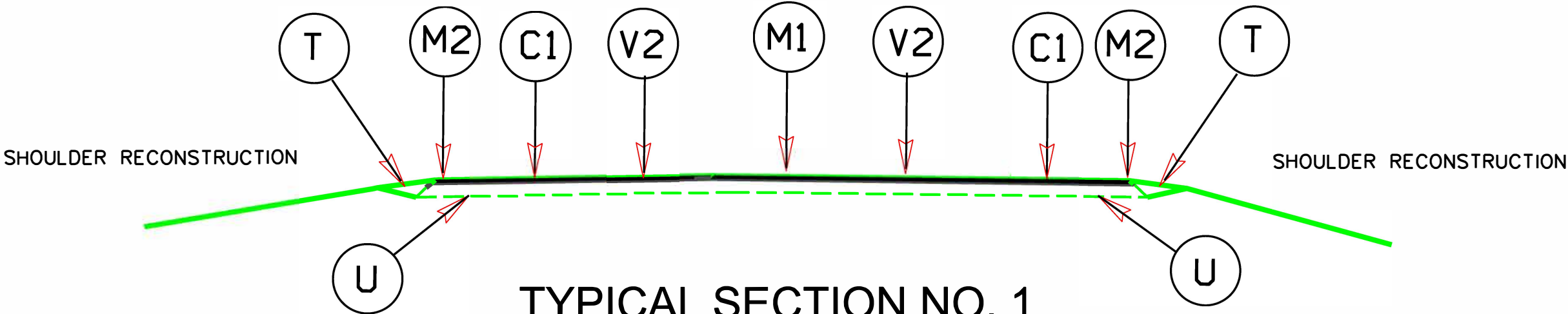
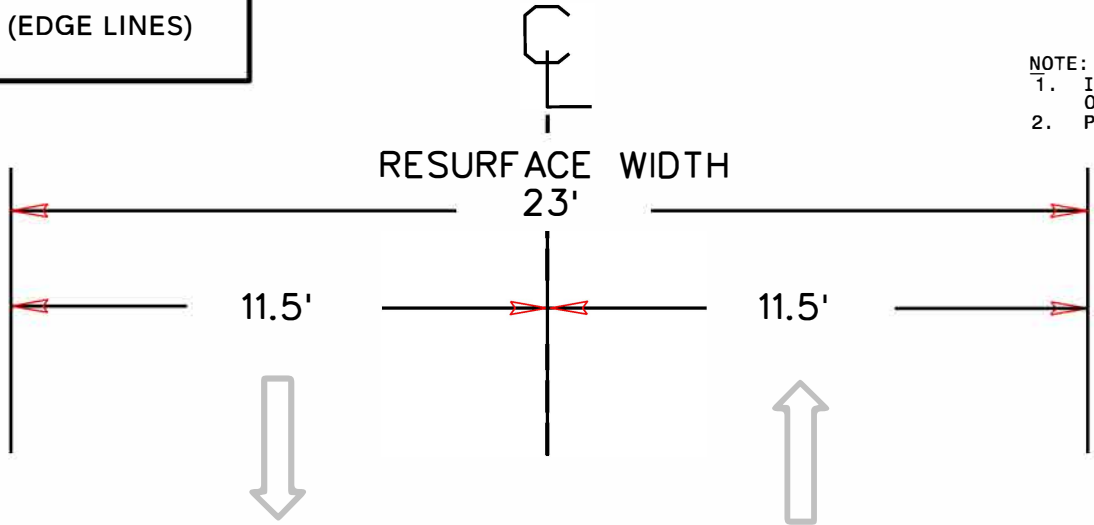
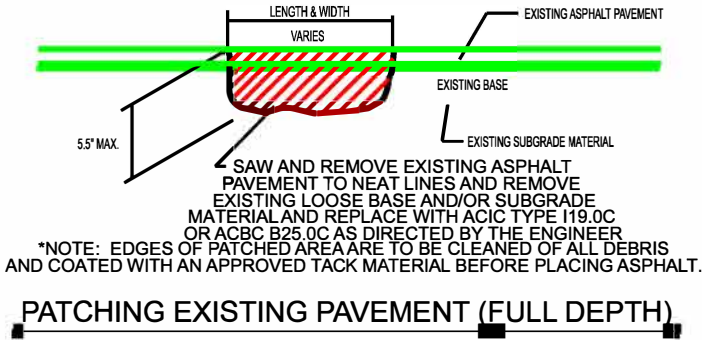
NOTES:

- * 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
- * MILLING 1.5" IS TO BE PERFORMED ON MAP #1
- * SHOULDER RECONSTRUCTION IS TO BE PERFORMED ON MAP #2.
- * SHOULDER WEDGE IS TO BE USED ON ALL ROADS 22' OR WIDER OR AS DIRECTED BY THE ENGINEER
- * CONTRACTOR IS TO USE A MATERIAL TRANSFER VEHICLE (MTV) ON MAPS 1 & 2.

PROJECT REFERENCE NO.	SHEET NO.
2027CPT.01.01.10891, ETC.	6



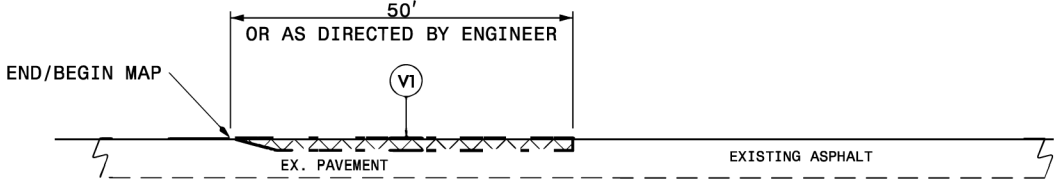
- NOTE:
1. INCLUDES INCIDENTAL MILLING AT THE ENDS OF MAIN LINE SECTIONS, OR AS DIRECTED BY THE ENGINEER.
 2. PAVE TO THE END OF THE MILLED SURFACE TO CREATE A SMOOTH TRANSITION.



TYPICAL SECTION NO. 1
USE WITH MAPS #1 & #2

PAVEMENT SCHEDULE

C2	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 165 LBS. PER SQ. YD.
V2	MILLING ASPHALT PAVEMENT, 1.5" - 3" DEPTH
U	EXISTING PAVEMENT
V1	INCIDENTAL MILLING



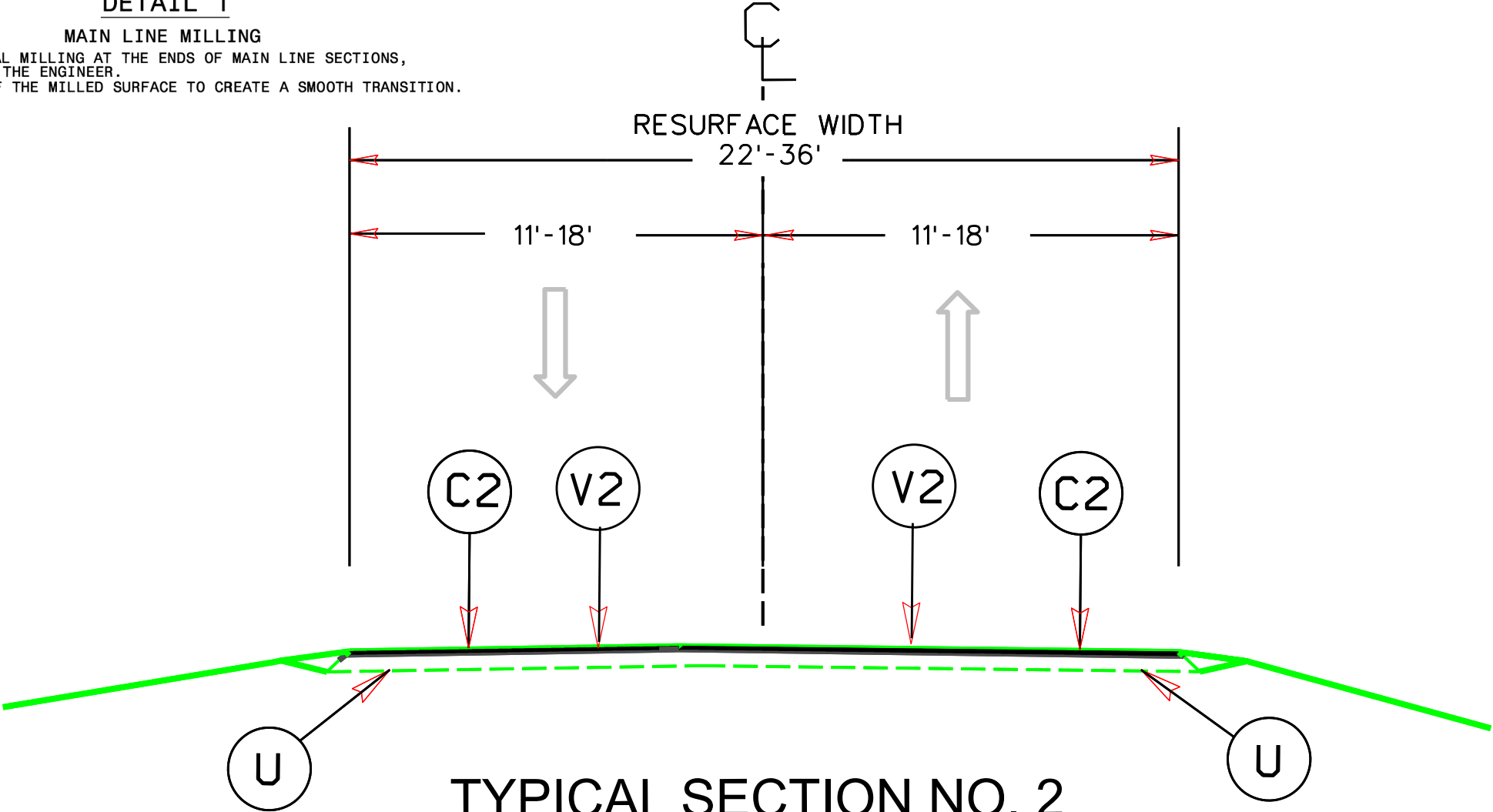
DETAIL 1

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.

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
- * SHOULDER WEDGE SHALL BE USED ON ALL ROADS 22' OR WIDER OR AS DIRECTED BY THE ENGINEER
- * MILLING 1.5" - 3" SHALL BE PERFORMED AT THE UNDERPASS SHOULDERS OF BOTH MAPS



TYPICAL SECTION NO. 2

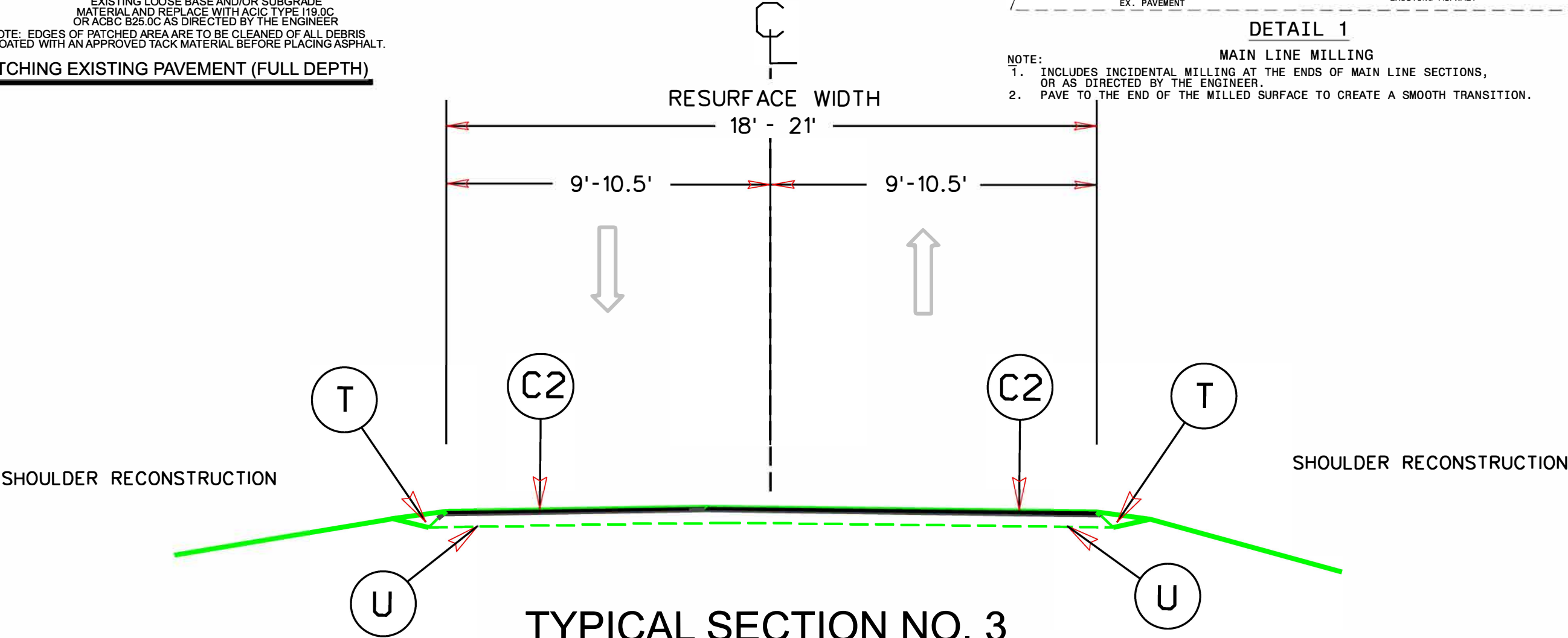
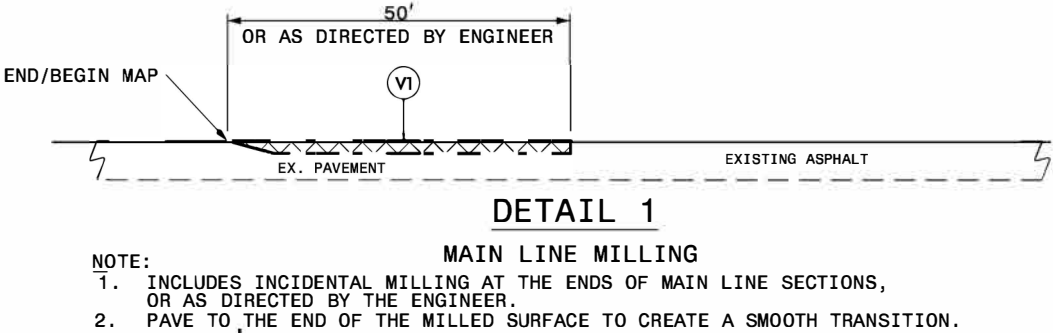
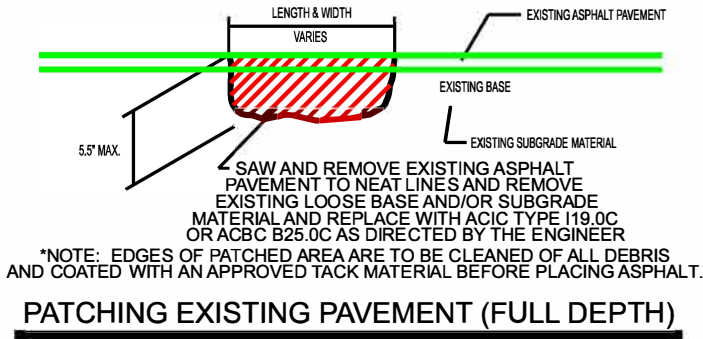
USE WITH MAPS 5 & 6

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

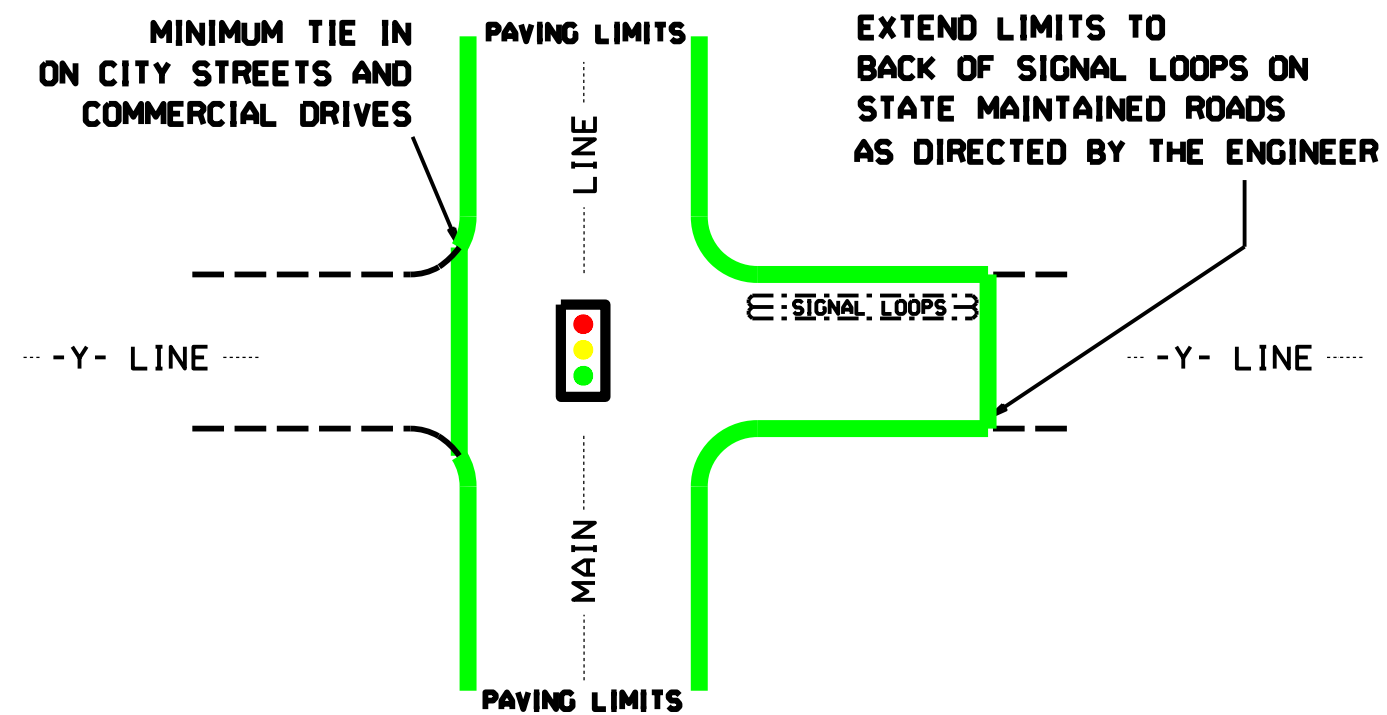
NOTES:

- * 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 IS TO PERFORM PATCHING EXISTING PAVEMENT, FULL DEPTH BEFORE APPLICATION OF 1.5" OF S9.5B
- * NO PATCHING IS REQUIRED ON MAP 7
- * INCIDENTAL MILLING IS TO BE PERFORMED ON MAP 4

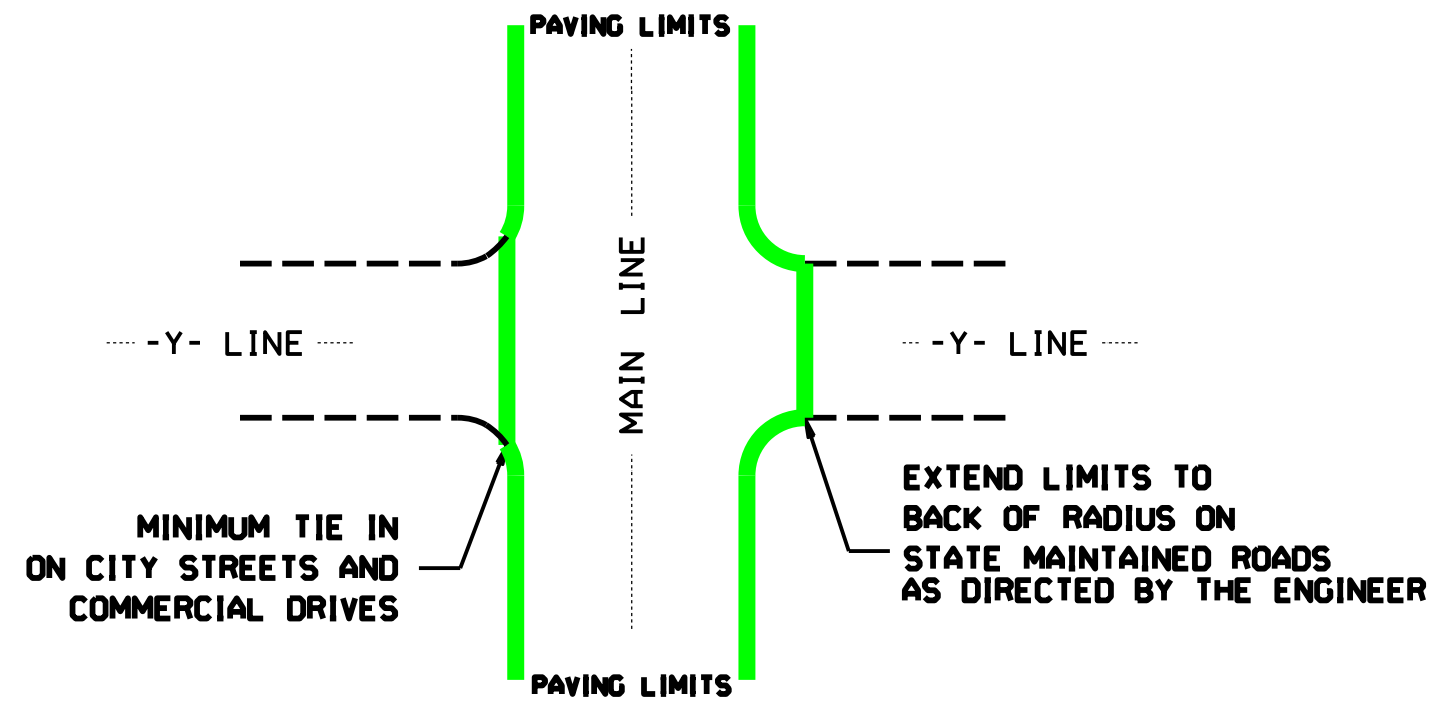


TYPICAL SECTION NO. 3
USE WITH MAPS 3,4, & 7-11

SYTIME 2023.01.10 10:00:00



TYPICAL DETAIL OF PROJECT LIMITS AT
SIGNALIZED Y LINES



TYPICAL DETAIL OF PROJECT LIMITS AT
UNSIGNALIZED Y LINES

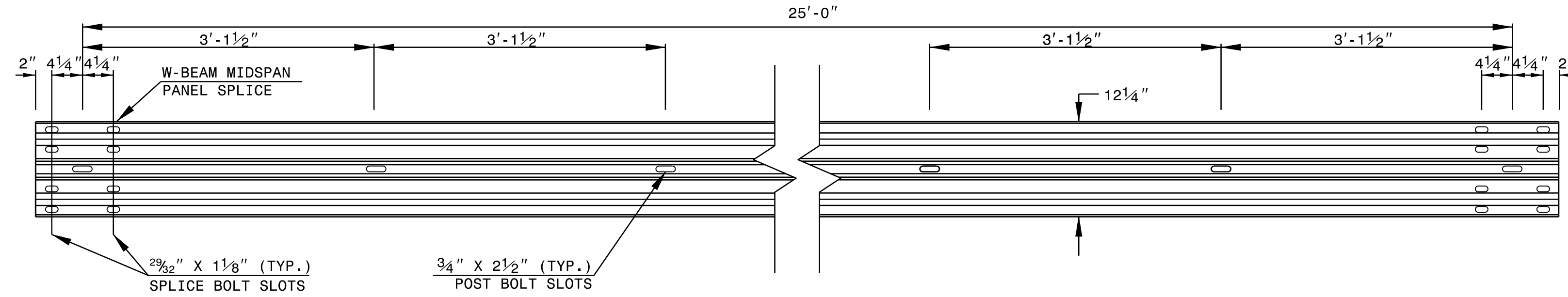
ADDITIONAL INTERSECTIONS (NON-TYPICAL)		
Extend paving limits to back of radius or loop on the following intersections:		
MAP#	STREET NAME	COMMENTS
	PAVE ALL STATE OWNED & TOWN STREETS TO BACK OF RADIUS FOR THIS PROJECT	

[illegible]

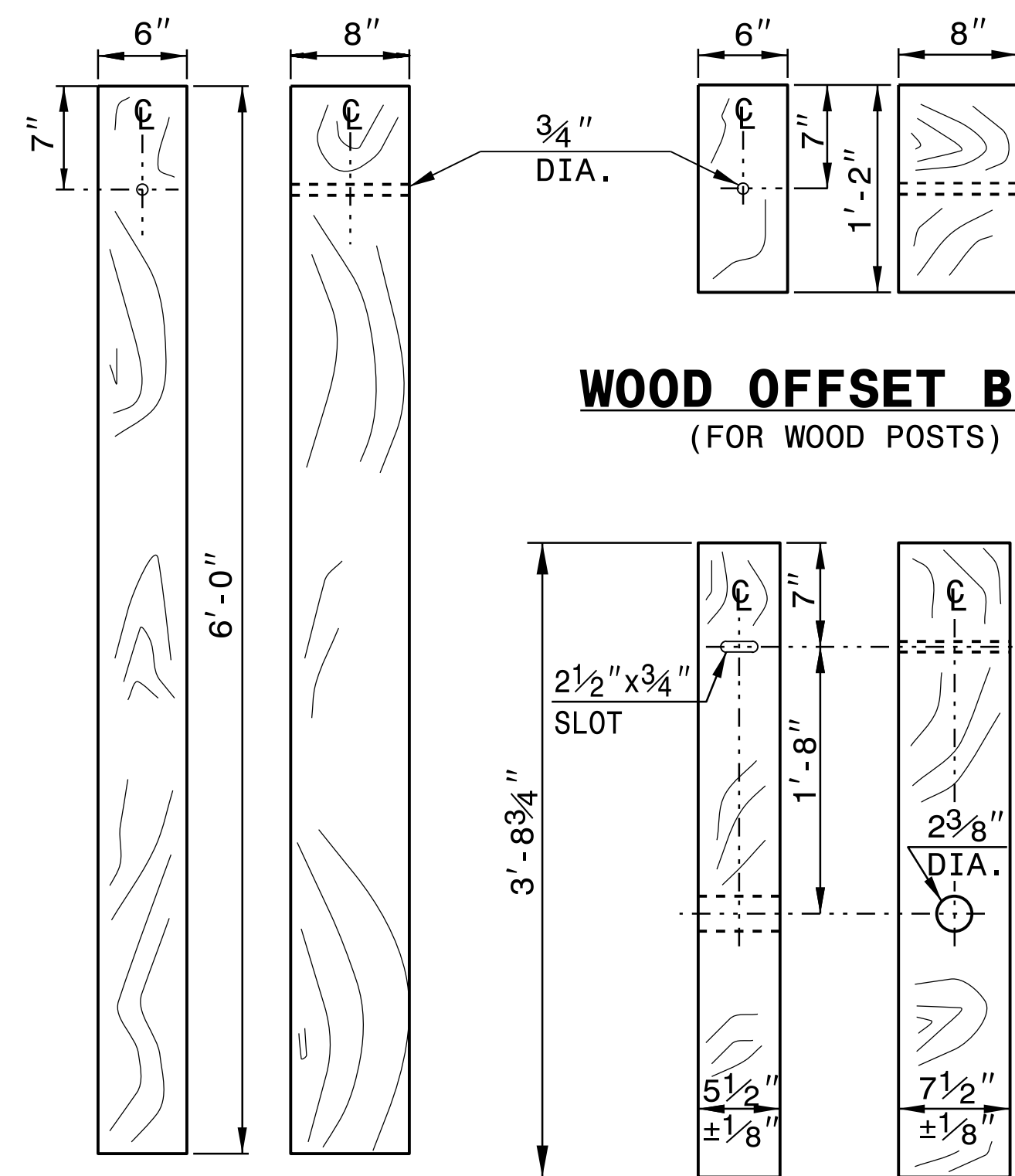
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02



STANDARD W-BEAM GUARDRAIL

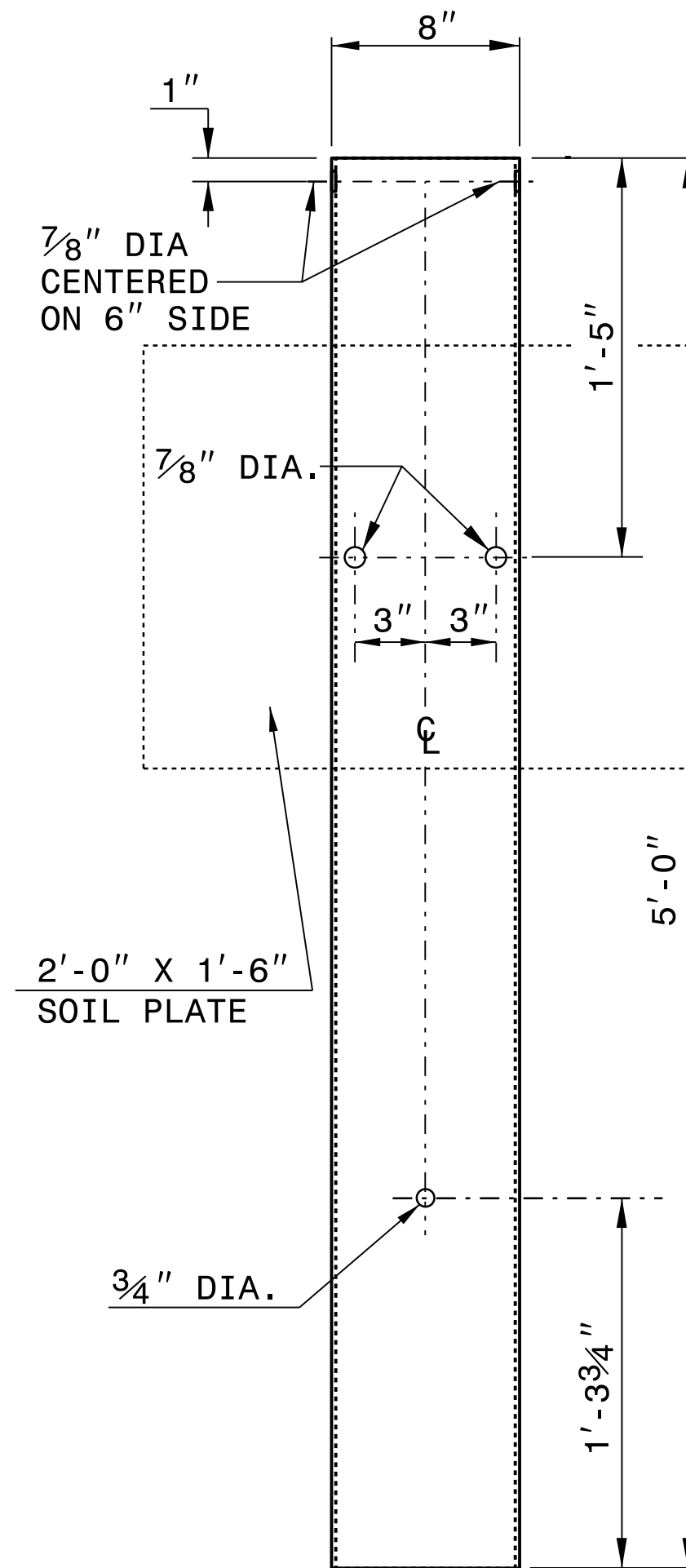


WOOD OFFSET BLOCK

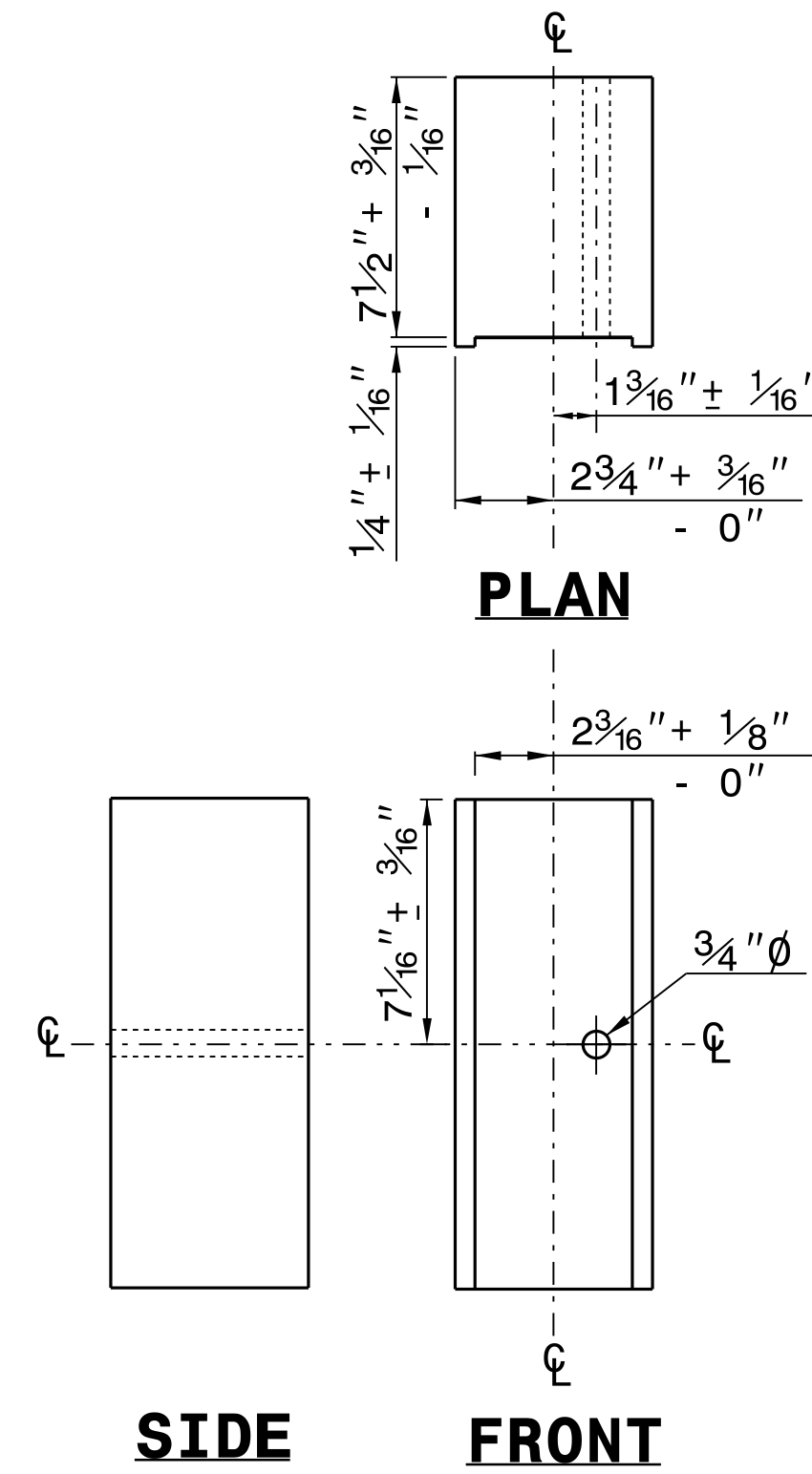
(FOR WOOD POSTS)

STANDARD
LINE POST

SHORT WOOD BREAKAWAY POST



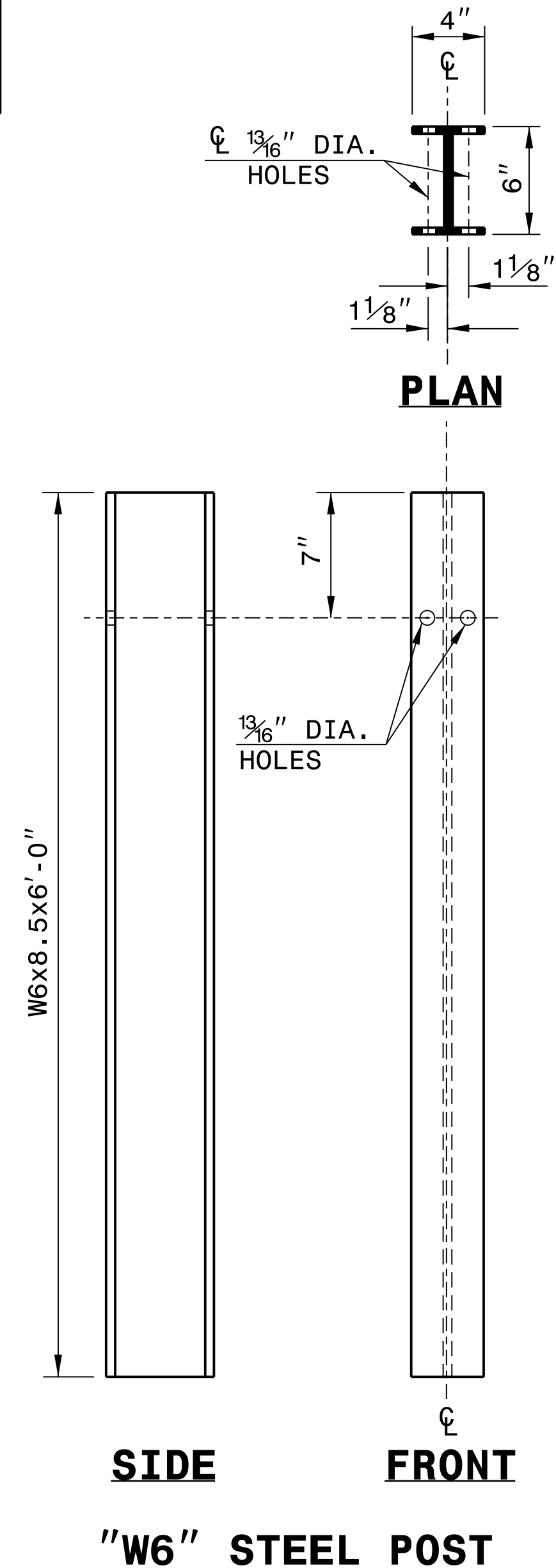
STEEL TUBE
TS 6"x8"x0.1875"



SIDE **FRONT**

ROUTED

OFFSET BLOCK



PLAN

SIDE **FRONT**

"W6" STEEL POST

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

ROADWAY DETAIL DRAWING FOR GUARDRAIL INSTALLATION

SHEET 6 OF 8
862D02



**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.: _____

I4-DEC-2017 10:36
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Howerton AT CSU-252595

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

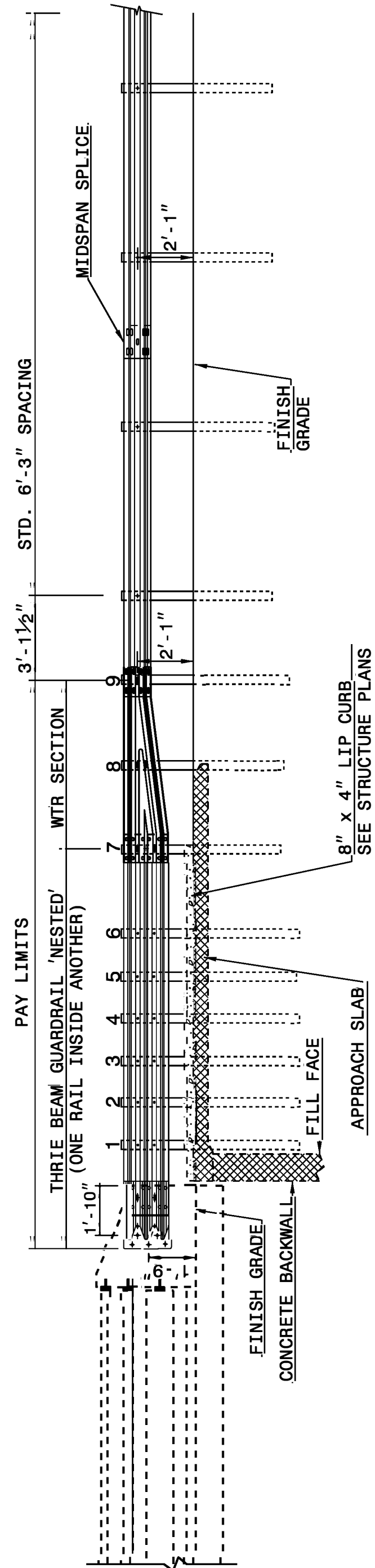
ROADWAY DETAIL DRAWING FOR
STRUCTURE ANCHOR UNITS
GUARDRAIL ANCHOR UNIT, TYPE III
FOR ATTACHMENT TO RAIL ON BRIDGE

SHEET 1 OF 7
862D03

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

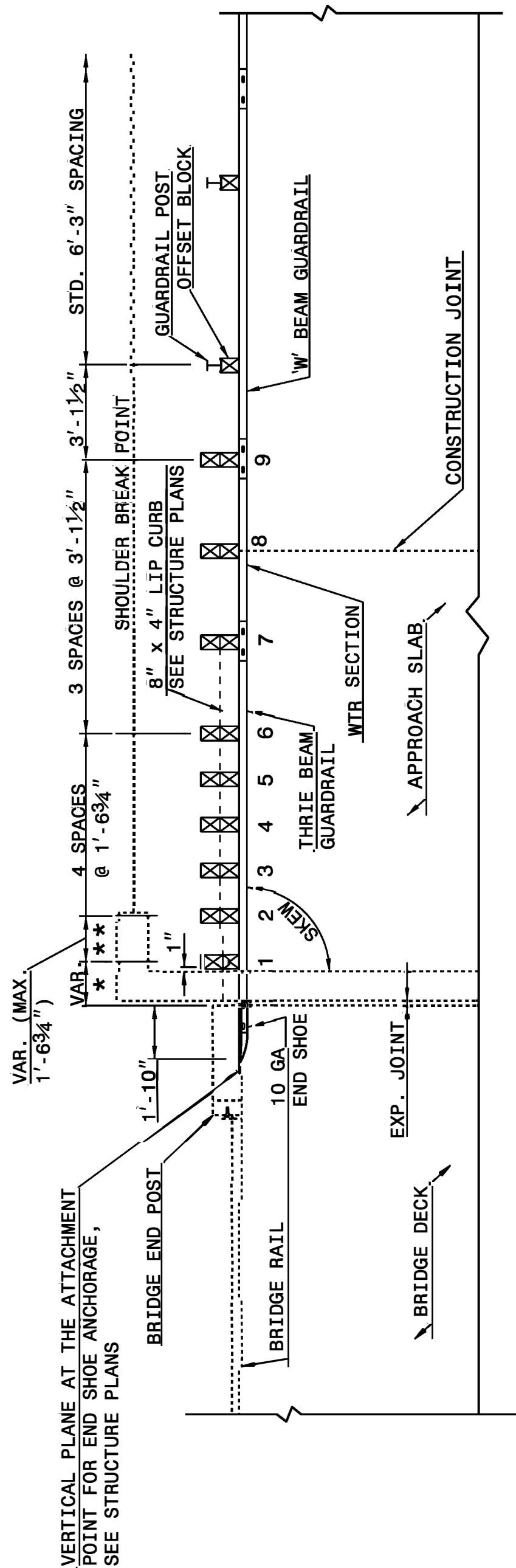
ROADWAY DETAIL DRAWING FOR
STRUCTURE ANCHOR UNITS
GUARDRAIL ANCHOR UNIT, TYPE III
FOR ATTACHMENT TO RAIL ON BRIDGE

SHEET 1 OF 7
862D03



ELEVATION

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 11 1/2" 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.



PLAN VIEW

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

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

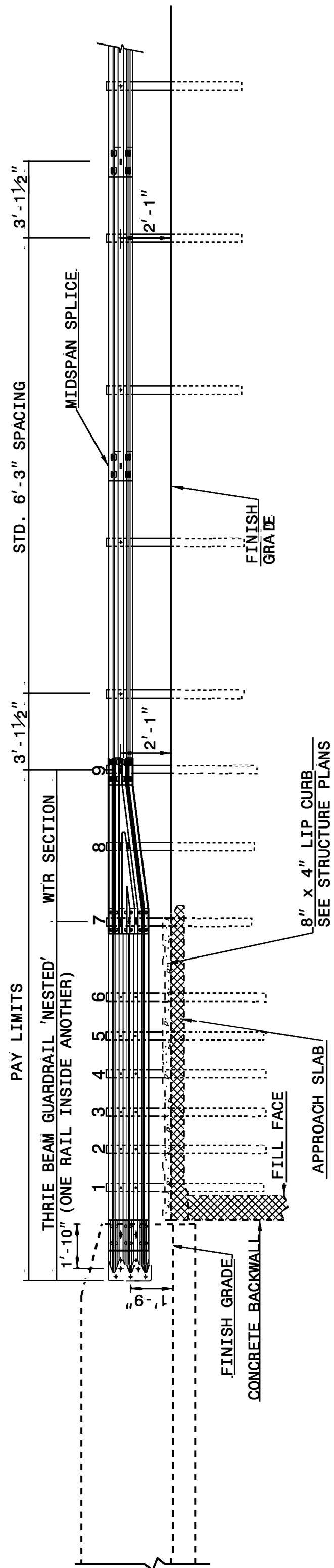
ROADWAY DETAIL DRAWING FOR
STRUCTURE ANCHOR UNITS
GUARDRAIL ANCHOR UNIT, TYPE III FOR ATTACHMENT TO
RAIL ON BRIDGE - SUB REGIONAL TIER

SHEET 2 OF 7
862D03

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

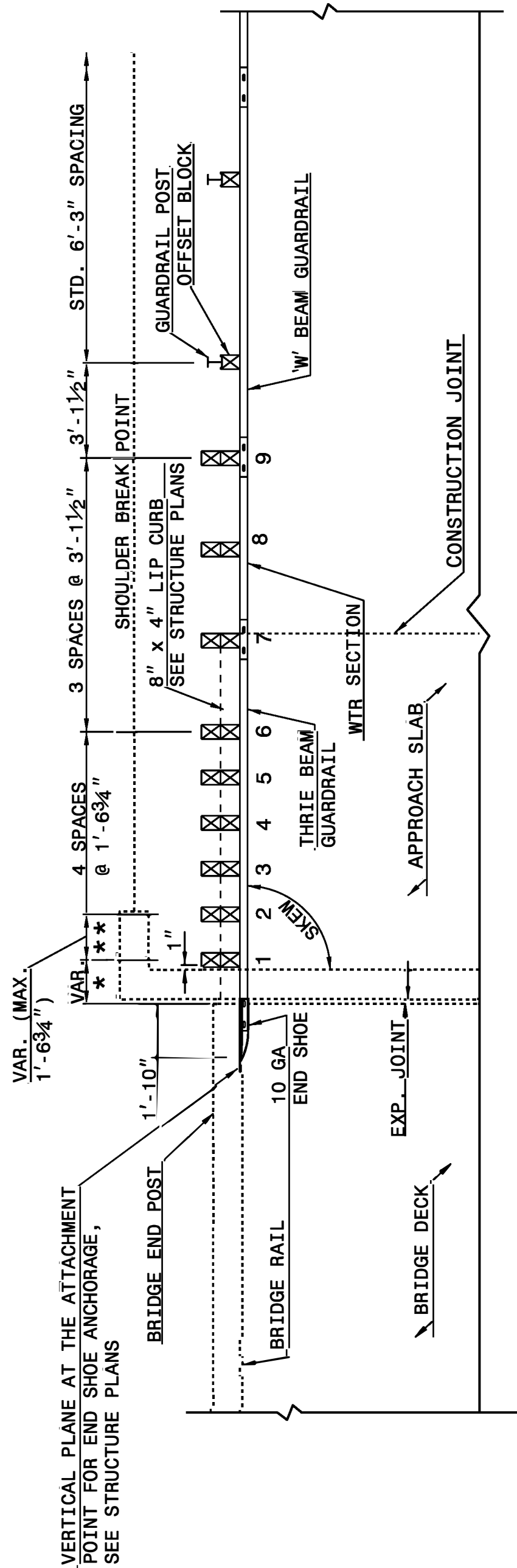
ROADWAY DETAIL DRAWING FOR
STRUCTURE ANCHOR UNITS
GUARDRAIL ANCHOR UNIT, TYPE III FOR ATTACHMENT TO
RAIL ON BRIDGE - SUB REGIONAL TIER

SHEET 2 OF 7
862D03



ELEVATION

NOTE:
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*THE DISTANCE FROM END OF BRIDGE RAIL TO CENTER LINE OF THE FIRST POST SHOULD BE 11 1/2" 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.



PLAN VIEW

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



**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.
2027CPT.01.01.10891, ETC. 12

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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

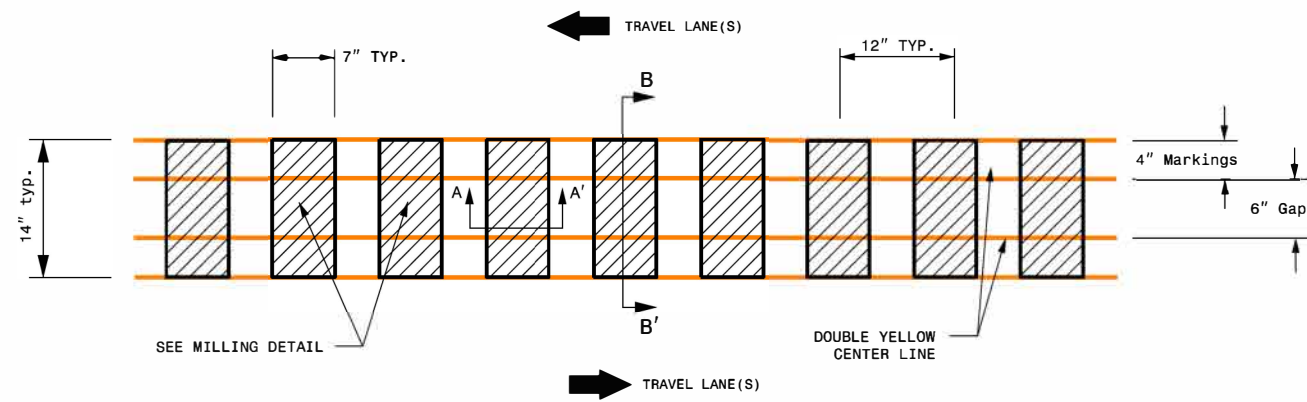
2-23
ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
TRADITIONAL CENTERLINE RUMBLE STRIPE

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

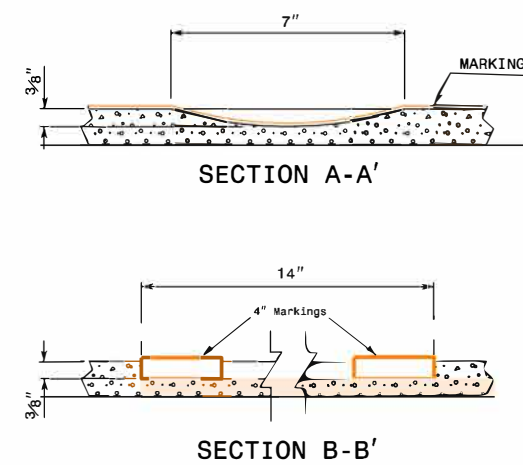
2-23
ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
TRADITIONAL CENTERLINE RUMBLE STRIPE

See Table 2 within Rumble Strip Policy for Design Guidance

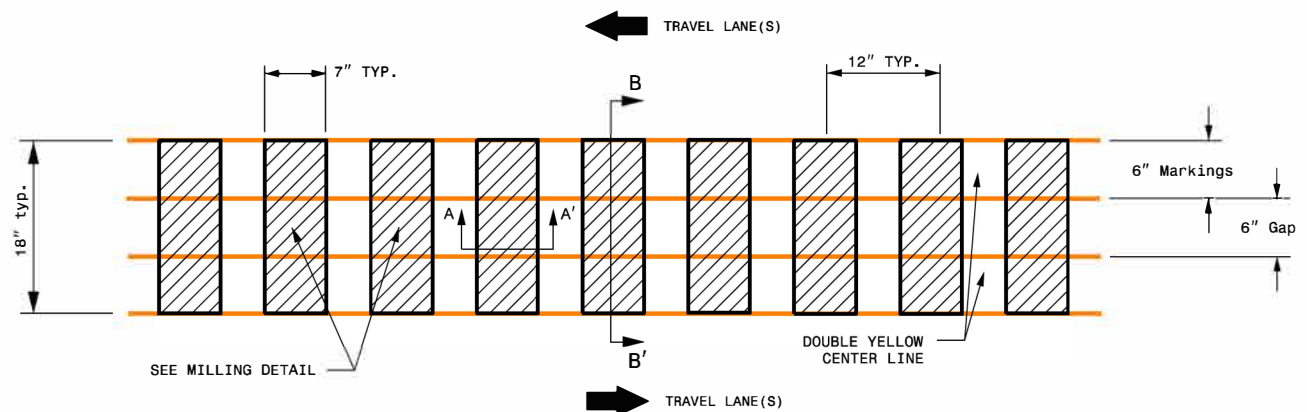
If 4" Markings will be used:



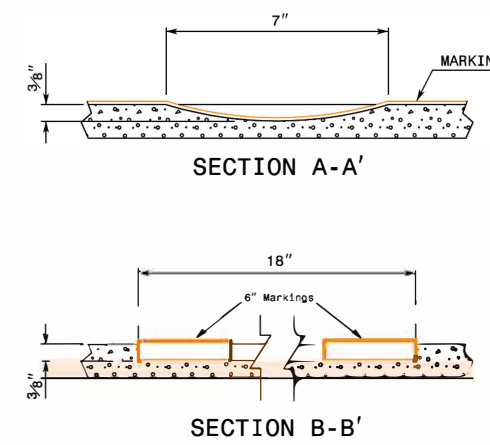
MILLING DETAIL - 4" Markings



If 6" Markings will be used:



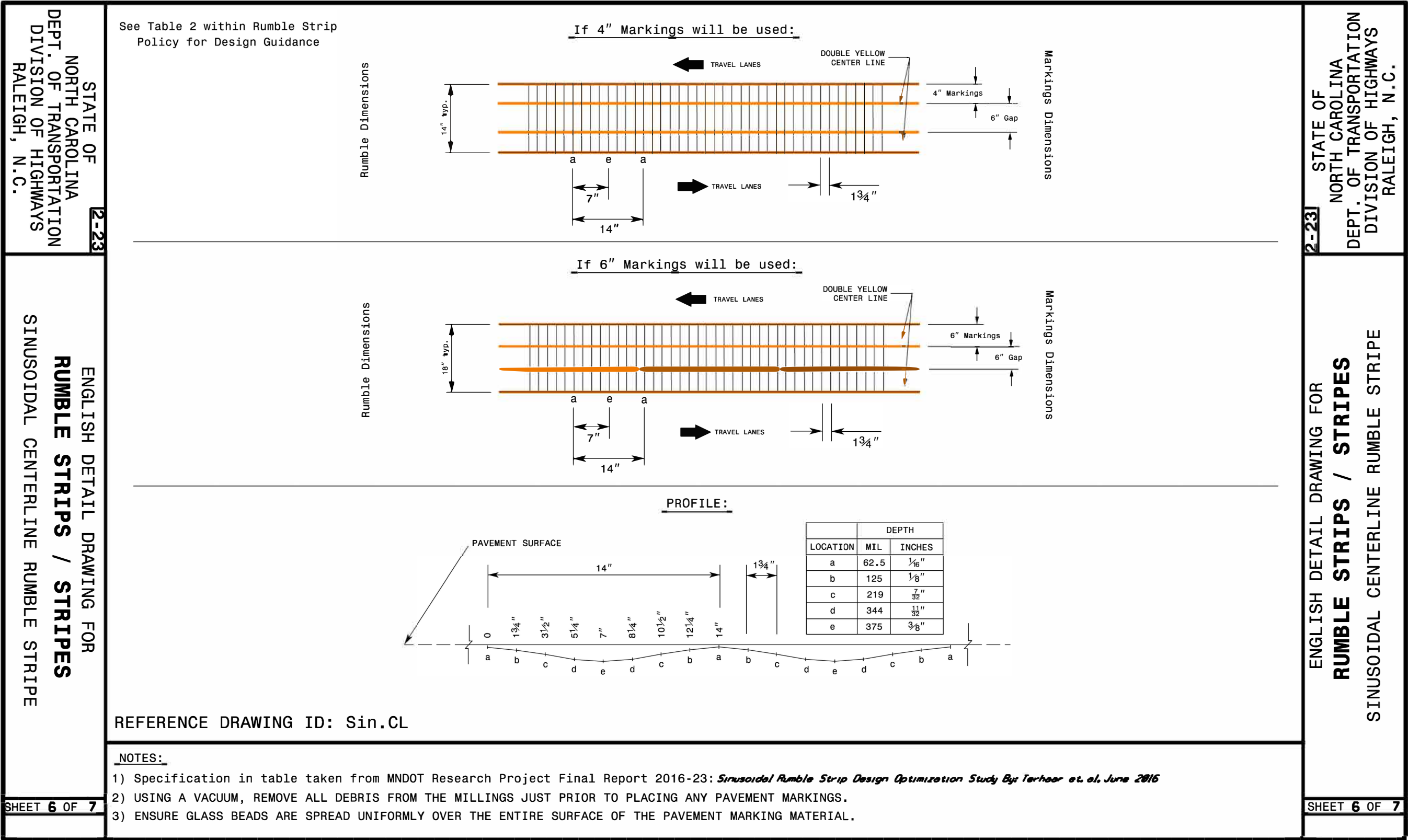
MILLING DETAIL - 6" Markings



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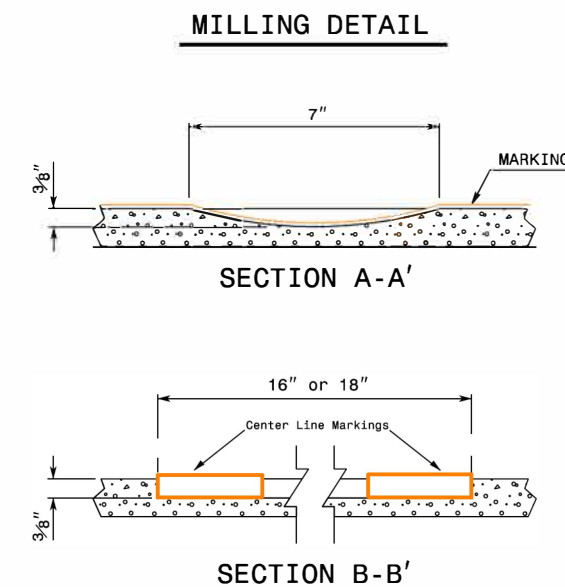
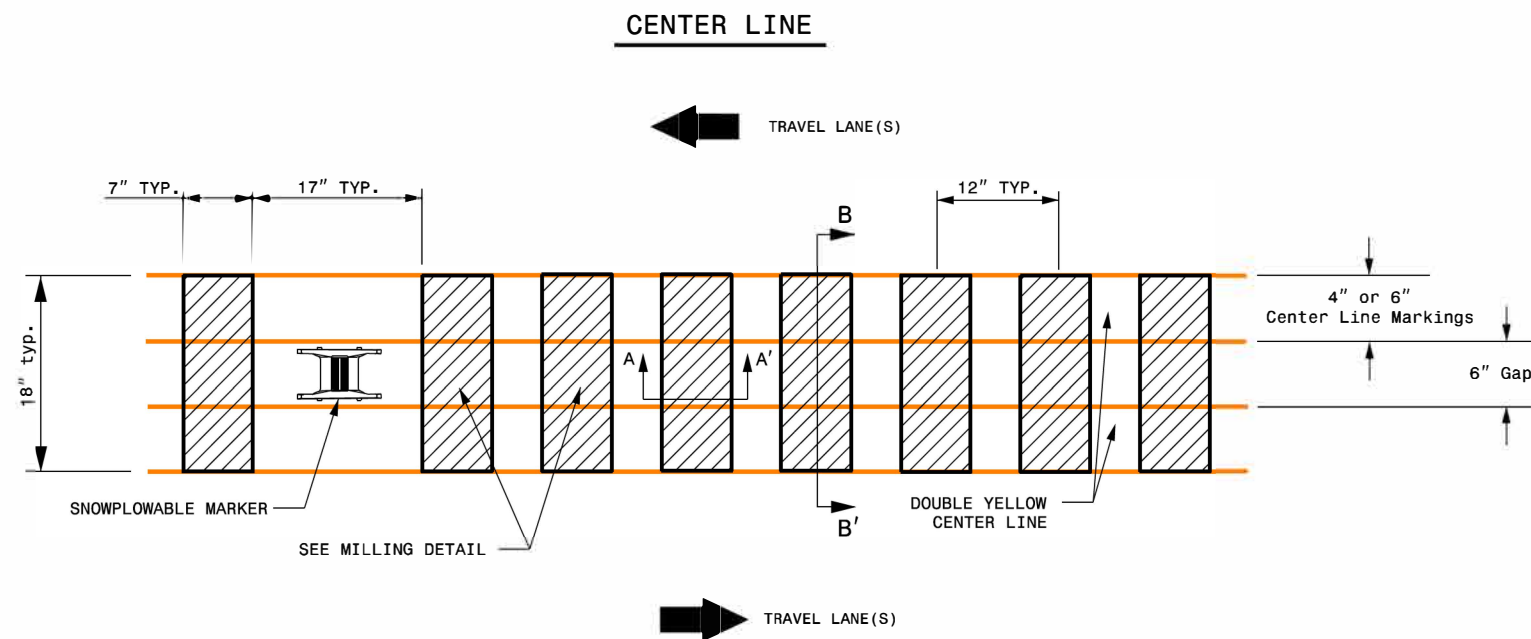
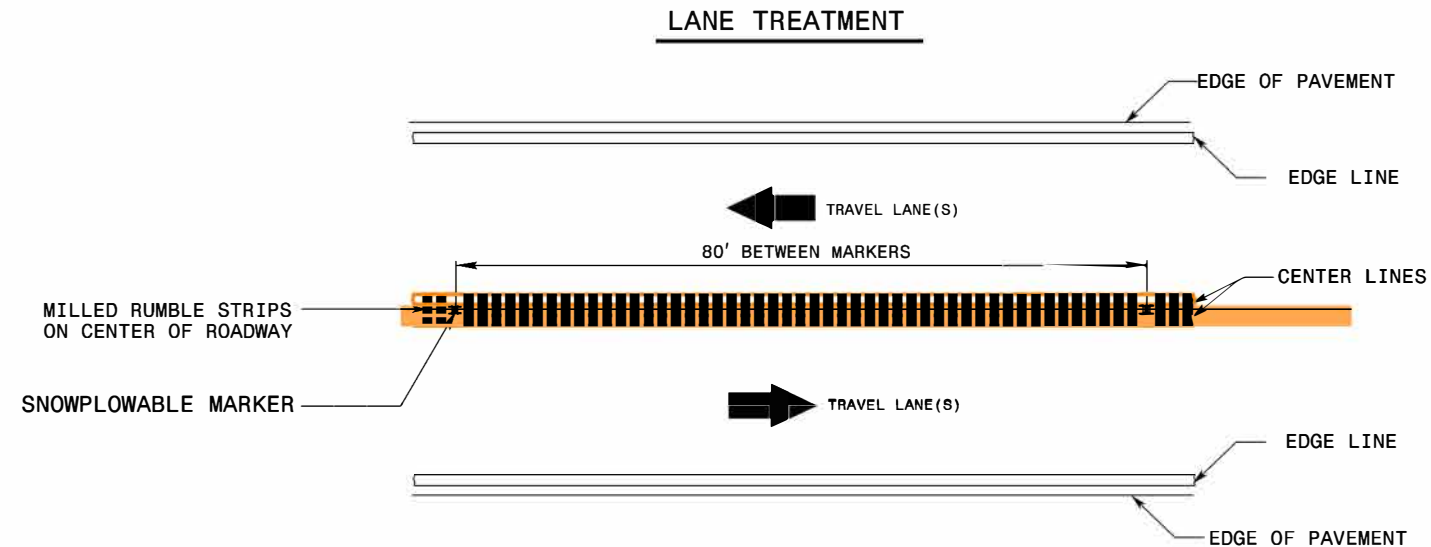
NOTES:

- 1) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.



STATE OF
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RALEIGH, N.C.

See Table 2 within Rumble Strip
Policy for Design Guidance



REFERENCE DRAWING ID: Trad.CL with Snowplowable Markers

NOTES:

- 1) USING A VACUUM, REMOVE ALL DEBRIS FROM THE MILLINGS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS.
- 2) ENSURE GLASS BEADS ARE SPREAD UNIFORMLY OVER THE ENTIRE SURFACE OF THE PAVEMENT MARKING MATERIAL.
- 3) INSTALL SNOWPLOWABLE MARKERS AT APPROXIMATELY 80' INCREMENTS. DO NOT MILL RUMBLE STRIPS IN SECTION WHERE SNOWPLOWABLE MARKERS ARE INSTALLED.

2-23

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

ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
TRADITIONAL CENTERLINE RUMBLE STRIPE WITH SNOWPLOWABLE MARKERS

SHEET 7 OF 7

ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES
TRADITIONAL CENTERLINE RUMBLE STRIPE WITH SNOWPLOWABLE MARKERS

SHEET 7 OF 7

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

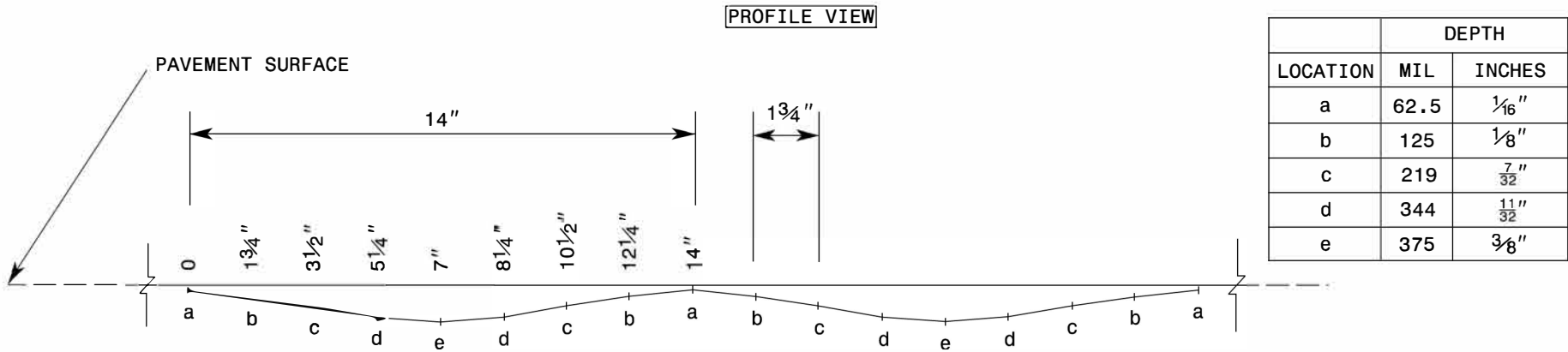
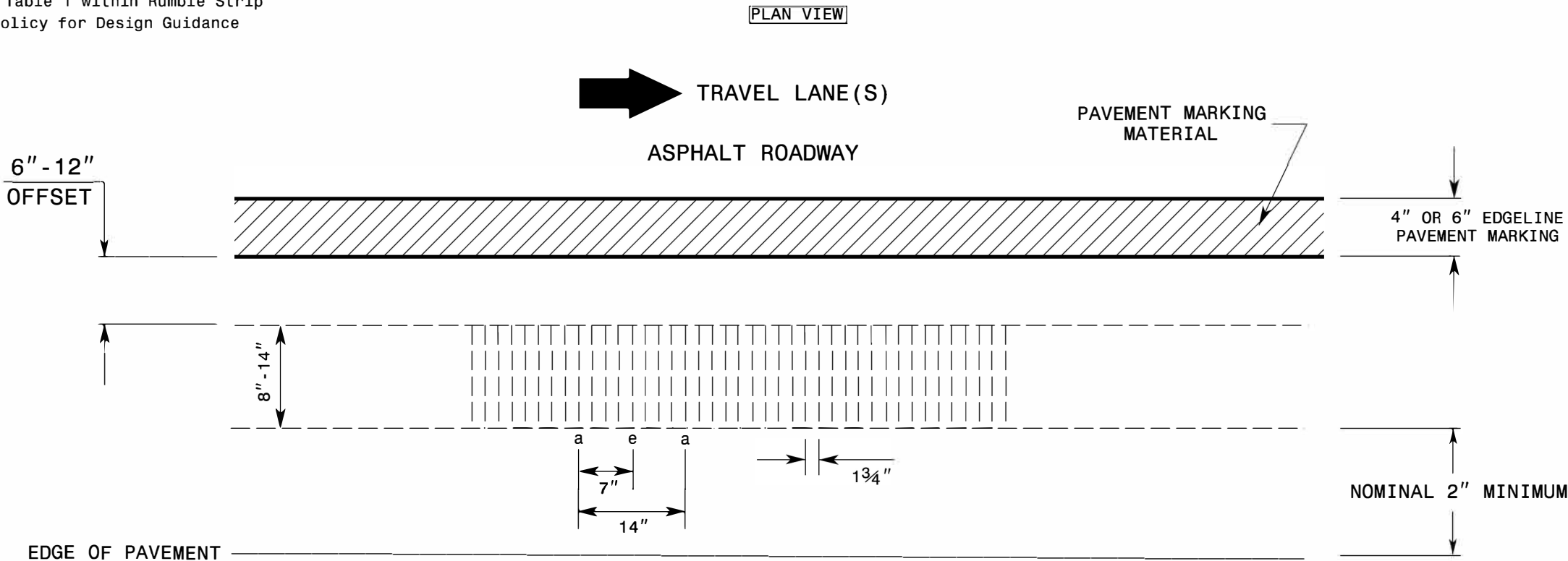
2-23

ENGLISH DETAIL DRAWING FOR
RUMBLE STRIPS / STRIPES

SINUSOIDAL SHOULDER RUMBLE STRIP

SHEET 2 OF 7

See Table 1 within Rumble Strip
Policy for Design Guidance



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 Terhaar et. al, June 2016*

STATE OF NORTH CAROLINA
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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.
2027CPT.01.01.10891, ETC.	17	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGI N MP	END MP	0000100000-N MOBILIZATION	0106000000-E BORROW EXCAVATION	1220000000-E INCIDENTAL STONE BASE	1245000000-E SHOULDER RECONSTRUCTION	1260000000-E AGGREGATE SHOULDER BORROW	1297000000-E MILLING ASPHALT PAVEMENT (1 1/2")	1308000000-E MILLING ASPHALT PAVEMENT, 1-1/2"TO 3"	1330000000-E INCIDENTAL MILLING	1519000000-E ASP CONC SURF CRS S9.5B	1523000000-E ASP CONC SURF CRS S9.5C	1524000000-E ASP CONC SURF CRS S9.5C LEVEL	1575000000-E ASP FOR PLANT MIX	1705000000-E PATCHING EXISTING PAVEMENT (FULL DEPTH)
								MI	FT			LS	CY	TONS	SMI	TONS	SY	SY	SY	TONS	TONS	TONS	TONS	TONS
2027CPT.01.01.10891	Tyrrell	1	NC-94 E / HWY 94	FROM HYDE CO TO MP 6.1	1	2	2WU	6.100	23	0.000	6.100	1		12			82,309		533		7,346		439	109
2027CPT.01.01.10891	Tyrrell	2	NC-94 E / HWY 94	FROM MP 6.1 TO SR 1321 (S.GUMNECKRD.)	1	2	2WU	4.190	23	6.100	10.290	*		5	8.38	1,550			2,767		5,014	594	335	92
TOTAL FOR PROJ NO. 2027CPT.01.01.10891								10.290				*		17	8.38	1,550	82,309		3,300		12,360	594	774	201
2027CPT.01.01.20891	Tyrrell	3	SR-1200 / ALBEMARLE CHURCH RD	FROM WASHINGTON CO TO SR 1117 (BAY POST OFFICE RD.)	3	2	2WU	1.390	19	0.000	1.390	*	250	19	2.78	30				1,351			88	6
TOTAL FOR PROJ NO. 2027CPT.01.01.20891								1.390				*	250	19	2.78	30				1,351			88	6
2027CPT.01.01.20941	Washington	4	SR-1112 / GARRETT ISLAND RD	FROM SR 1113 (OLD ROPER LOOP) TO END OF PAVEMENT	3	2	2WU	1.590	20	0.000	1.590	*	286	33	3.18				206	1,626			110	98
2027CPT.01.01.20941	Washington	5	SR-1125 / MILL POND RD/E MILL POND RD	FROM SR 1175 (S RAILROAD ST.) TO 1300' SOUTH OF US 64	2	2	2WU	0.830	22	0.000	0.830	*					15,295	760	1,941	1,516			99	
2027CPT.01.01.20941	Washington	6	SR-1126 / NEWLAND RD	FROM NC 32 TO 1.17MI WEST OF SR-1180 (B CANAL RD)	2	2	2WU	2.390	23	0.090	2.480	*					32,249	215	536	2,809			183	
2027CPT.01.01.20941	Washington	7	SR-1162 / SPRUILL TOWN RD E	FROM SR-1155 (OLD CHERRY RD.) TO END OF PAVEMENT	3	2	2WU	0.270	20	0.000	0.270	*	49	5	0.54					307			20	
2027CPT.01.01.20941	Washington	8	SR-1175 / S RAILROAD ST	FROM SR 1122 (E BUNCOMBE ST.) TO SR 1125 (E MILLPOND RD.)	3	2	2WU	0.500	22	0.000	0.500	*	90		1.00					572			39	44
2027CPT.01.01.20941	Washington	9	SR-1210 / AUSBON DR	FROM SR 1108 (ROSEVELT AVENUE) TO SR 1211 (BUNCOMBE DRIVE)	3	2	2WU	0.120	20	0.000	0.120	*	22	8	0.24					123			12	85
2027CPT.01.01.20941	Washington	10	SR-1211 / BUNCOMBE DR	FROM SR 1210 (AUSBON DR.) TO EOM	3	2	2WU	0.100	20	0.000	0.100	*	18		0.20					102			9	55
2027CPT.01.01.20941	Washington	11	SR-1352 / GRIFFIN RD	FROM NC 32 TO CUL-DE-SAC	3	2	2WU	0.218	18	0.000	0.218	*	39	8	0.44					225			16	32
TOTAL FOR PROJ NO. 2027CPT.01.01.20941								6.018				*	504	54	5.60		47,544	975	2,683	7,280			488	314
51985	Tyrrell	1	NC-94 E / HWY 94	FROM HYDE CO TO MP 6.1	1	2	2WU	6.100	23	0.000	6.100	*												
51985	Tyrrell	2	NC-94 E / HWY 94	FROM MP 6.1 TO SR 1321 (S.GUMNECKRD.)	1	2	2WU	4.190	23	6.100	10.290	*												
TOTAL FOR PROJ NO. 51985								10.290				*												
GRAND TOTAL								27.988				1	754	90	16.76	1,580	129,853	975	5,983	8,631	12,360	594	1,350	521

* MTV Required on Maps 1 & 2

PROJECT NO.	SHEET NO.	TOTAL NO.
2027CPT.01.01.10891, ETC.	18	

SUMMARY OF QUANTITIES CONTINUED

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEG N MP	END MP	1881000000-E	1891000000-E	2845000000-N	3030000000-E	3317000000-N	3215000000-N	3287000000-N		3360000000-E	4895000000-N	6084000000-E	6117000000-N	
								MI	FT			GENERIC PAVING ITEM SINUSOIDAL MILLED RUMBLE STRIPS, (18")	GENERIC PAVING ITEM SINUSOIDAL MILLED RUMBLE STRIPS, (8")	GENERIC PAVING ITEM (ASPHALT PAVEMENT JOINT REJUVENATOR)	ADJ METER OR VALVE BOXES	STEEL BEAM GUARDRAIL	GUARDRAIL ANCHOR UNITS, TYPE B-77	GR ANCH III	GUARDRAIL END UNITS, TYPE TL-3	GUARDRAIL END UNITS, TYPE TL-3	REMOVE EXISTING GUARDRAIL	GENERIC PAVEMENT MARKING ITEM (POLYCARBONATE H-SHAPED MARKERS)	SEEDING & MULCHING	RESPONSE FOR EROSION CONTROL
												LF	SY	EA	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA
2027CPT.01.01.10891	Tyrrell	1	NC-94 E / HWY 94	FROM HYDE CO TO MP 6.1	1	2	2WU	6.100	23	0.000	6.100			7,157.00							403.00			
2027CPT.01.01.10891	Tyrrell	2	NC-94 E / HWY 94	FROM MP 6.1 TO SR 1321 (S.GUMNECKRD.)	1	2	2WU	4.190	23	6.100	10.290			4,916.00	1	375		3.00	3.00		582	277.00	4.1	1
TOTAL FOR PROJ NO. 2027CPT.01.01.10891								10.290						12,073.00	1	375		3.00	3.00		582	680.00	4.1	1
																		3.00						
2027CPT.01.01.20891	Tyrrell	3	SR-1200 / ALBEMARLE CHURCH RD	FROM WASHINGTON CO TO SR 1117 (BAY POST OFFICE RD.)	3	2	2WU	1.390	19	0.000	1.390											1.3	1	
TOTAL FOR PROJ NO. 2027CPT.01.01.20891								1.390														1.3	1	
2027CPT.01.01.20941	Washington	4	SR-1112 / GARRETT ISLAND RD	FROM SR 1113 (OLD ROPER LOOP) TO END OF PAVEMENT	3	2	2WU	1.590	20	0.000	1.590											1.5	1	
2027CPT.01.01.20941	Washington	5	SR-1125 / MILL POND RD/E MILL POND RD	FROM SR 1175 (S RAILROAD ST.) TO 1300' SOUTH OF US 64	2	2	2WU	0.830	22	0.000	0.830				75	4.00		4	366	110				
2027CPT.01.01.20941	Washington	6	SR-1126 / NEWLAND RD	FROM NC 32 TO 1.17MI WEST OF SR-1180 (B CANAL RD)	2	2	2WU	2.390	23	0.090	2.480				138	4.00		4	400					
2027CPT.01.01.20941	Washington	7	SR-1162 / SPRUILL TOWN RD E	FROM SR-1155 (OLD CHERRY RD.) TO END OF PAVEMENT	3	2	2WU	0.270	20	0.000	0.270											0.3		
2027CPT.01.01.20941	Washington	8	SR-1175 / S RAILROAD ST	FROM SR 1122 (E BUNCOMBE ST.) TO SR 1125 (E MILLPOND RD.)	3	2	2WU	0.500	22	0.000	0.500											0.5		
2027CPT.01.01.20941	Washington	9	SR-1210 / AUSBON DR	FROM SR 1108 (ROSEVELT AVENUE) TO SR 1211 (BUNCOMBE DRIVE)	3	2	2WU	0.120	20	0.000	0.120											0.1		
2027CPT.01.01.20941	Washington	10	SR-1211 / BUNCOMBE DR	FROM SR 1210 (AUSBON DR.) TO EOM	3	2	2WU	0.100	20	0.000	0.100											0.1		
2027CPT.01.01.20941	Washington	11	SR-1352 / GRIFFIN RD	FROM NC 32 TO CUL-DE-SAC	3	2	2WU	0.218	18	0.000	0.218											0.2		
TOTAL FOR PROJ NO. 2027CPT.01.01.20941								6.018							213	8.00		8	766		2.7	1		
																		8.00						
51985	Tyrrell	1	NC-94 E / HWY 94	FROM HYDE CO TO MP 6.1	1	2	2WU	6.100	23	0.000	6.100	32,208	64,416											
51985	Tyrrell	2	NC-94 E / HWY 94	FROM MP 6.1 TO SR 1321 (S.GUMNECKRD.)	1	2	2WU	4.190	23	6.100	10.290	22,123	44,246											
TOTAL FOR PROJ NO. 51985								10.290				54,331	108,662											
GRAND TOTAL								27.988				54,331	108,662	12,073.00	1	588	8.00	3.00	8	1,348	790.00	8.1	3	
																		11.00						

PROJECT NO.	SHEET NO.	TOTAL NO.
2027CPT.01.01.10891, ETC.	19	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4413000000-E	4457000000-N	4688000000-E		4695000000-E		4709000000-E	4725000000-E		
												WORK ZONE ADVANCE / GENERAL WARNING SIGNING	TEMPORARY TRAFFIC CONTROL (SP)	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (6", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS) YELLOW	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS) WHITE	THERMOPLASTIC PAVEMENT MARKING LINES (24" 90 MILS)	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), STR ARROW	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS), LT ARROW	
								MI	FT			SF	LS	LF	LF	LF	LF	LF	EA	EA	
2027CPT.01.01.10891	Tyrrell	1	NC-94 E / HWY 94	FROM HYDE CO TO MP 6.1	1	2	2WU	6.1	23	0	6.1	270	1	64,416	40,260						
2027CPT.01.01.10891	Tyrrell	2	NC-94 E / HWY 94	FROM MP 6.1 TO SR 1321 (S.GUMNECKRD.)	1	2	2WU	4.19	23	6.1	10.29	156	*	44,246	27,654						
TOTAL FOR PROJ NO. 2027CPT.01.01.10891								10.29				426	*	108,662	67,914						
														176,576							
2027CPT.01.01.20891	Tyrrell	3	SR-1200 / ALBEMARLE CHURCH RD	FROM WASHINGTON CO TO SR 1117 (BAY POST OFFICE RD.)	3	2	2WU	1.39	19	0	1.39		*								
TOTAL FOR PROJ NO. 2027CPT.01.01.20891								1.39					*								
2027CPT.01.01.20941	Washington	4	SR-1112 / GARRETT ISLAND RD	FROM SR 1113 (OLD ROPER LOOP) TO END OF PAVEMENT	3	2	2WU	1.59	20	0	1.59		*								
2027CPT.01.01.20941	Washington	5	SR-1125 / MILL POND RD/E MILL POND RD	FROM SR 1175 (S RAILROAD ST.) TO 1300' SOUTH OF US 64	2	2	2WU	0.83	22	0	0.83		*	251	502	489	240	56	4	4	
2027CPT.01.01.20941	Washington	6	SR-1126 / NEWLAND RD	FROM NC 32 TO 1.17MI WEST OF SR- 1180 (B CANAL RD)	2	2	2WU	2.39	23	0.09	2.48	177	*								
2027CPT.01.01.20941	Washington	7	SR-1162 / SPRUILL TOWN RD E	FROM SR-1155 (OLD CHERRY RD.) TO END OF PAVEMENT	3	2	2WU	0.27	20	0	0.27		*								
2027CPT.01.01.20941	Washington	8	SR-1175 / S RAILROAD ST	FROM SR 1122 (E BUNCOMBE ST.) TO SR 1125 (E MILLPOND RD.)	3	2	2WU	0.5	22	0	0.5		*								
2027CPT.01.01.20941	Washington	9	SR-1210 / AUSBON DR	FROM SR 1108 (ROSEVELT AVENUE) TO SR 1211 (BUNCOMBE DRIVE)	3	2	2WU	0.12	20	0	0.12		*								
2027CPT.01.01.20941	Washington	10	SR-1211 / BUNCOMBE DR	FROM SR 1210 (AUSBON DR.) TO EOM	3	2	2WU	0.1	20	0	0.1		*								
2027CPT.01.01.20941	Washington	11	SR-1352 / GRIFFIN RD	FROM NC 32 TO CUL-DE-SAC	3	2	2WU	0.218	18	0	0.218		*								
TOTAL FOR PROJ NO. 2027CPT.01.01.20941								6.018				177	*	251	502	489	240	56	4	4	
														753		729				8	
51985	Tyrrell	1	NC-94 E / HWY 94	FROM HYDE CO TO MP 6.1	1	2	2WU	6.1	23	0	6.1		*								
51985	Tyrrell	2	NC-94 E / HWY 94	FROM MP 6.1 TO SR 1321 (S.GUMNECKRD.)	1	2	2WU	4.19	23	6.1	10.29		*								
TOTAL FOR PROJ NO. 51985								10.29					*								
GRAND TOTAL								27.988				603	1	108,913	68,416	489	240	56	4	4	
														177,329		729				8	

PROJECT NO.	SHEET NO.	TOTAL NO.
2027CPT.01.01.10891, ETC.	20	

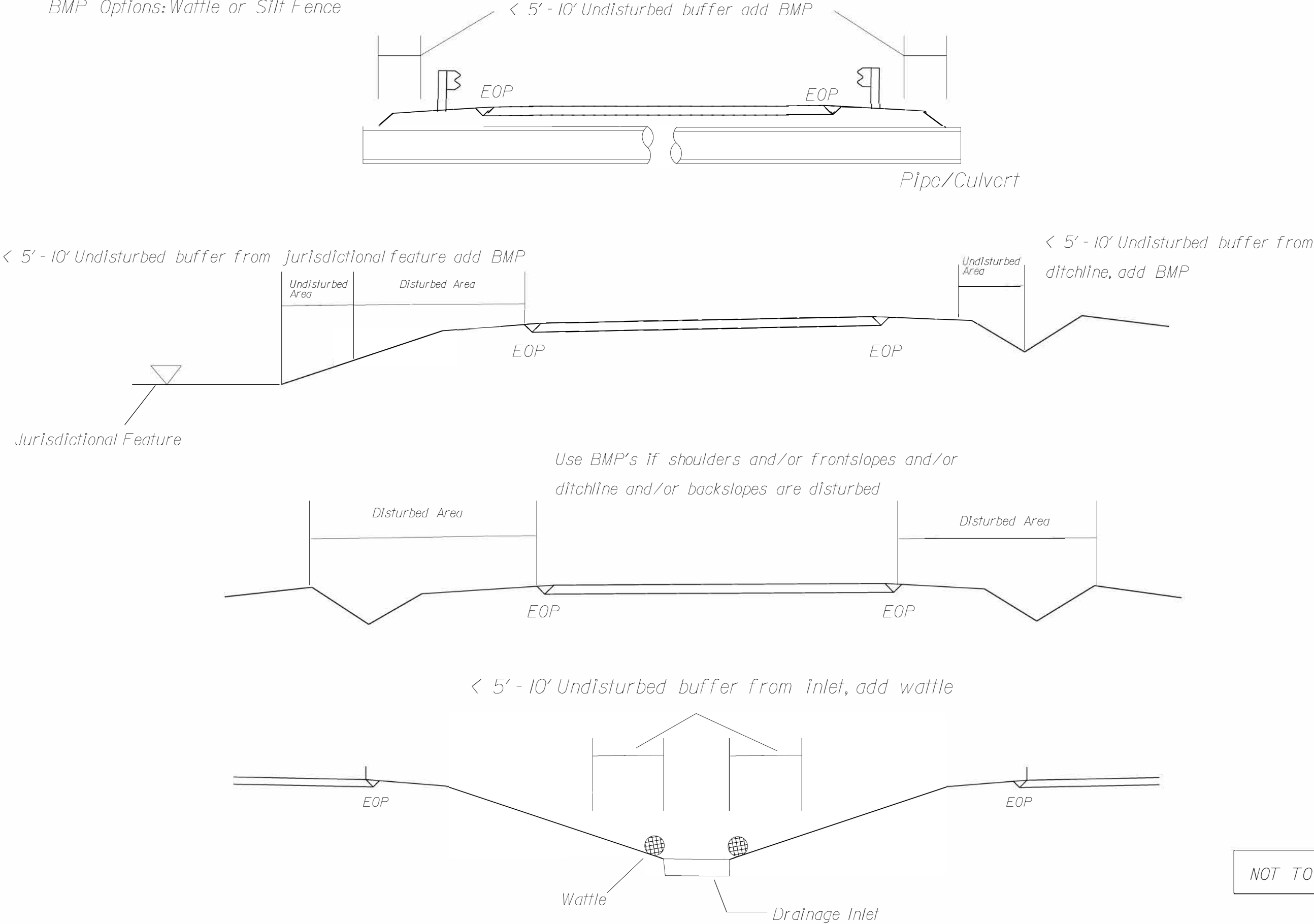
THERMOPLASTIC AND PAINT QUANTITIES

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 (8") YELLOW	PAINT PAVEMENT MARKING LINES (8") WHITE	PAINT PAVEMENT MARKING LINES (24")	PAINT PAVEMENT MARKING SYMBOL (STR ARROW)	PAINT PAVEMENT MARKING SYMBOL (LT ARROW)	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, (4", 65 MILS) WHITE	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES, (4", 65 MILS) YELLOW
								MI	FT			LF	LF	LF	LF	LF	EA	EA	LF	LF
2027CPT.01.01.10891	Tyrrell	1	NC-94 E / HWY 94	FROM HYDE CO TO MP 6.1	1	2	2WU	6.1	23	0	6.1	64,416	40,260							
2027CPT.01.01.10891	Tyrrell	2	NC-94 E / HWY 94	FROM MP 6.1 TO SR 1321 (S.GUMNECKRD.)	1	2	2WU	4.19	23	6.1	10.29	44,246	27,654							
TOTAL FOR PROJ NO. 2027CPT.01.01.10891								10.29				108,662	67,914							
												176,576								
2027CPT.01.01.20891	Tyrrell	3	SR-1200 / ALBEMARLE CHURCH RD	FROM WASHINGTON CO TO SR 1117 (BAY POST OFFICE RD.)	3	2	2WU	1.39	19	0	1.39	14,678	9,174						14,678	9,174
TOTAL FOR PROJ NO. 2027CPT.01.01.20891								1.39				14,678	9,174						14,678	9,174
												23,852							23,852	
2027CPT.01.01.20941	Washington	4	SR-1112 / GARRETT ISLAND RD	FROM SR 1113 (OLD ROPER LOOP) TO END OF PAVEMENT	3	2	2WU	1.59	20	0	1.59	16,790	10,494						16,790	10,494
2027CPT.01.01.20941	Washington	5	SR-1125 / MILL POND RD/E MILL POND RD	FROM SR 1175 (S RAILROAD ST.) TO 1300' SOUTH OF US 64	2	2	2WU	0.83	22	0	0.83	8,765	12,770	489	240	56	4	4	8,765	12,770
2027CPT.01.01.20941	Washington	6	SR-1126 / NEWLAND RD	FROM NC 32 TO 1.17MI WEST OF SR-1180 (B CANAL RD)	2	2	2WU	2.39	23	0.09	2.48	25,238	15,774						25,238	15,774
2027CPT.01.01.20941	Washington	7	SR-1162 / SPRUILL TOWN RD E	FROM SR-1155 (OLD CHERRY RD.) TO END OF PAVEMENT	3	2	2WU	0.27	20	0	0.27	2,851	2,851						2,851	2,851
2027CPT.01.01.20941	Washington	8	SR-1175 / S RAILROAD ST	FROM SR 1122 (E BUNCOMBE ST.) TO SR 1125 (E MILLPOND RD.)	3	2	2WU	0.5	22	0	0.5	5,280	5,280						5,280	5,280
2027CPT.01.01.20941	Washington	9	SR-1210 / AUSBON DR	FROM SR 1108 (ROSEVELT AVENUE) TO SR 1211 (BUNCOMBE DRIVE)	3	2	2WU	0.12	20	0	0.12									
2027CPT.01.01.20941	Washington	10	SR-1211 / BUNCOMBE DR	FROM SR 1210 (AUSBON DR.) TO EOM	3	2	2WU	0.1	20	0	0.1									
2027CPT.01.01.20941	Washington	11	SR-1352 / GRIFFIN RD	FROM NC 32 TO CUL-DE-SAC	3	2	2WU	0.218	18	0	0.218									
TOTAL FOR PROJ NO. 2027CPT.01.01.20941								6.018				58,924	47,169	489	240	56	4	4	58,924	47,169
												106,093		729			8		106,093	
51985	Tyrrell	1	NC-94 E / HWY 94	FROM HYDE CO TO MP 6.1	1	2	2WU	6.1	23	0	6.1									
51985	Tyrrell	2	NC-94 E / HWY 94	FROM MP 6.1 TO SR 1321 (S.GUMNECKRD.)	1	2	2WU	4.19	23	6.1	10.29									
TOTAL FOR PROJ NO. 51985								10.29												
GRAND TOTAL								27.988				182,264	124,257	489	240	56	4	4	73,602	56,343
												306,521		729			8		129,945	

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

BMP Options: Wattle or Silt Fence

EROSION CONTROL DETAIL



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

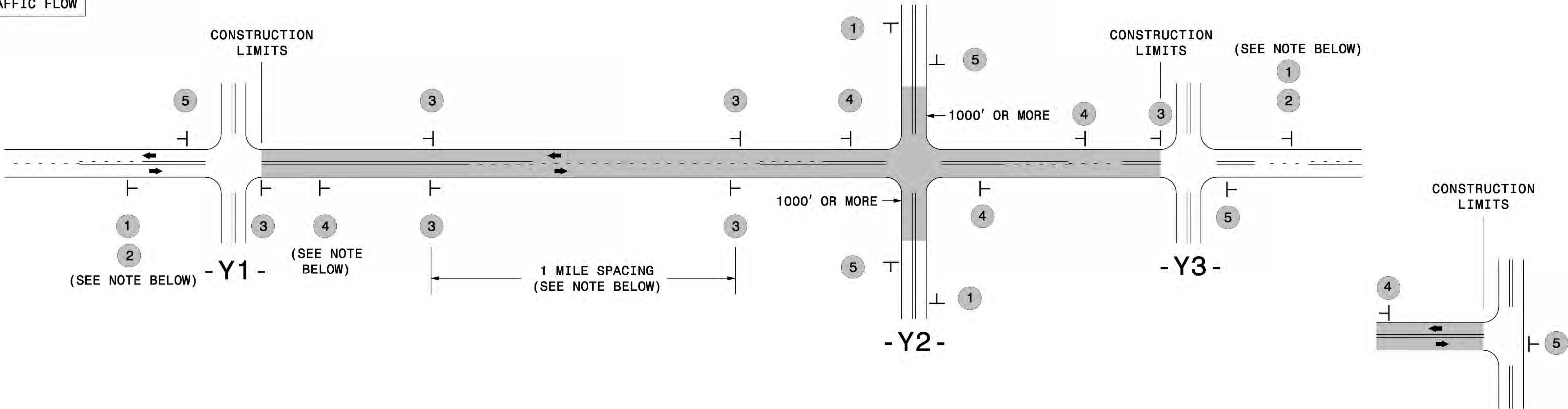
SITE DESCRIPTION	STABILIZATION TIME	TIMEFRAME EXCEPTIONS
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS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

SIGNING FOR RESURFACING PROJECTS

LEGEND

STATIONARY SIGN

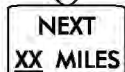
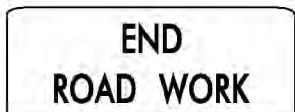
DIRECTION OF TRAFFIC FLOW



TEE INTERSECTION

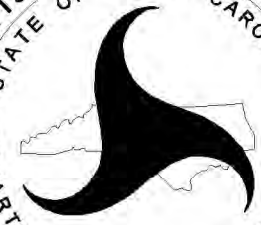
MAINLINE (-L-) SIGNING

-Y- LINE SIGNING

SIGNING NOTES AND PLACEMENT PER DIRECTION	1  W20-1 48" X 48" 2  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)	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.	
	3  SP 13107 48" X 48" - PLACE INITIALLY AT THE CONSTRUCTION LIMITS AND SPACE 1 MILE APART THEREAFTER. - AT TEE INTERSECTIONS INSTALL INITIALLY 1/2 MILE FROM INTERSECTION AND SPACE 1 MILE APART THEREAFTER.		 W20-1 48" X 48" PLACED 500' IN ADVANCE OF FLAGGER.  W20-7 A 48" X 48" PLACED 250' IN ADVANCE OF FLAGGER.
	4  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  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.		

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



AD



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