

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

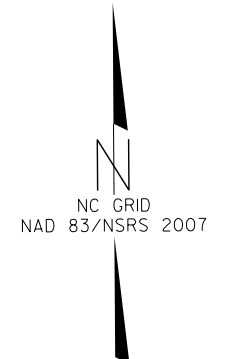
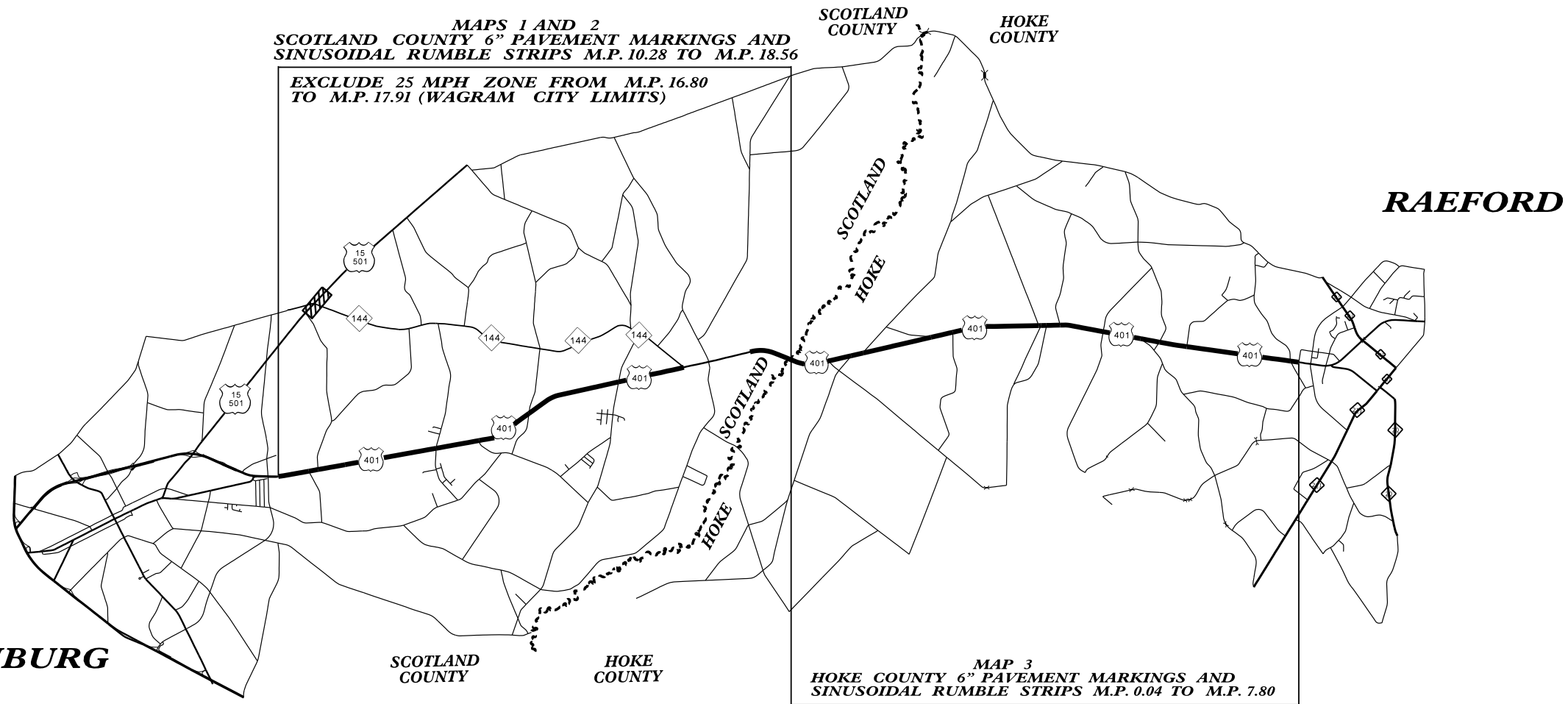
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SS-6208L	1	6
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
51114		CONST	

HOKE AND SCOTLAND COUNTY

**LOCATION: US 401 IN SCOTLAND COUNTY FROM LAURINBURG CITY LIMITS TO HOKE COUNTY LINE (EXCLUDING WAGRAM CITY LIMITS)
US 401 IN HOKE COUNTY FROM SCOTLAND COUNTY LINE TO RAEFORD CITY LIMITS**

TYPE OF WORK: THERMOPLASTIC MARKINGS & SINUSOIDAL RUMBLE STRIPS

PROJECT: SS-6208L



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CONTRACT:

SHEET INDEX	
2	TYPICAL SECTION, LEFT TURN LANE DETAIL
3,4	SINUSOIDAL MILLED RUMBLE STRIPS DETAIL
5,6	SOQ
GRAPHIC SCALES	
N/A	

DESIGN DATA
FUNC CLASS =

Prepared In the Office of:
DIVISION OF HIGHWAYS
DIVISION 8 DESIGN & CONSTRUCT UNIT
121 DOT DRIVE
CARTHAGE NC 28327
PLANS PREPARED BY: DDC

PROJECT LENGTH
ROADWAY LENGTH SCOTLAND COUNTY: 7.17 MILES
ROADWAY LENGTH HOKE COUNTY: 7.76 MILES
TOTAL: 14.93 MILES

DIVISION OF HIGHWAYS	
2024 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: N/A	
LETTING DATE: September 10, 2024	

DIVISION PROJECT ENGINEER
SIGNATURE: _____ P.E.

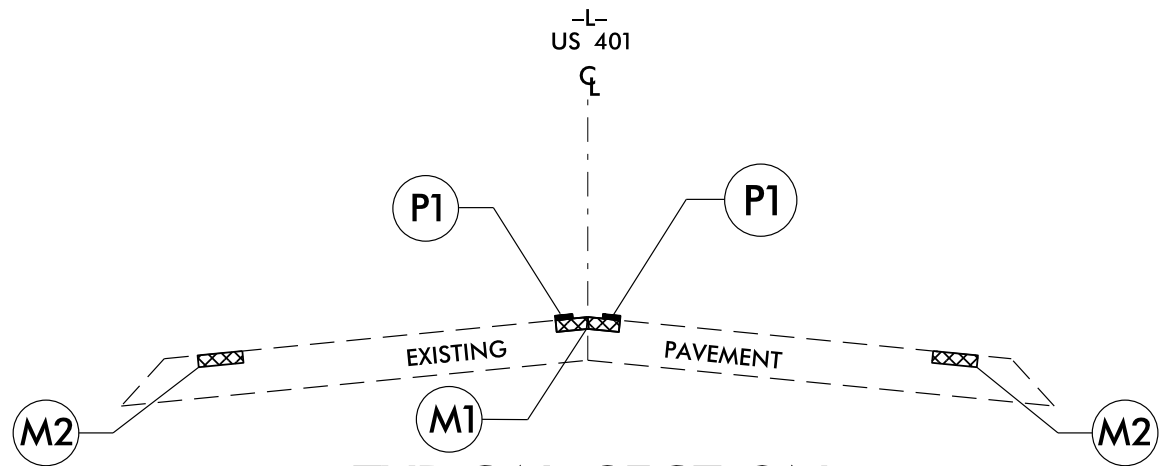
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PAVEMENT SCHEDULE	
M1	PROP. APPROX. 18" CENTERLINE SINUSOIDAL RUMBLE STRIPE (SEE DETAIL SHEET 3)
M2	PROP. APPROX. 8" EDGELINE SINUSOIDAL RUMBLE STRIP (SEE DETAIL SHEET 4)
P1	PROP. 6" 90 MIL YELLOW THERMOPLASTIC PAVEMENT MARKING LINES (CENTERLINES)

PROJECT REFERENCE NO. SS-6208L	SHEET NO. 2
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

NOTES:

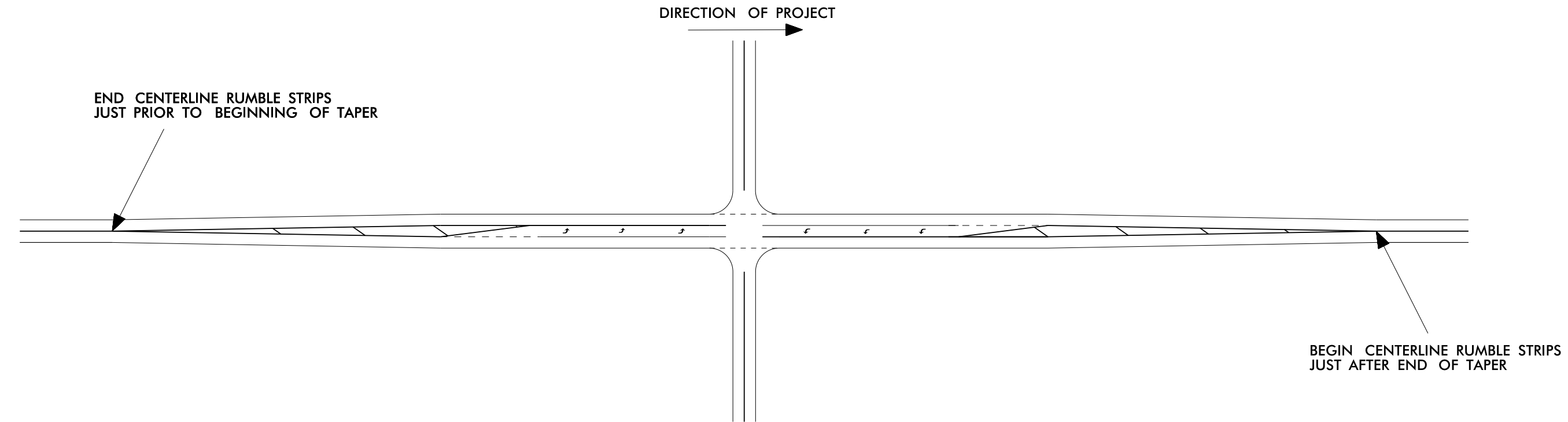
- DO NOT DISTURB EXISTING SNOWPLOWABLE MARKERS
- DO NOT PLACE EDGELINE RUMBLE STRIPS AT DRIVEWAYS
- USING A VACUUM, REMOVE ALL DEBRIS JUST PRIOR TO PLACING ANY PAVEMENT MARKINGS



TYPICAL SECTION

USE TYPICAL SECTION AS FOLLOWS:

- US 401 IN SCOTLAND COUNTY:
FROM M.P. 10.28 (1130 FT NORTH OF LAURINBURG CITY LIMITS AT END OF TAPER) TO M.P. 16.80 (WAGRAM CITY LIMITS, 130 FT SOUTH OF NC 144/OLD WIRE RD)
- US 401 IN SCOTLAND COUNTY:
FROM M.P. 17.91 (WAGRAM CITY LIMITS) TO M.P. 18.56 (SOUTH APPROACH TO BRIDGE #47 OVER LUMBER RIVER)
- US 401 IN HOKE COUNTY:
FROM M.P. 0.04 (NORTH APPROACH TO BRIDGE #47 OVER LUMBER RIVER) TO M.P. 7.80 (RAEFORD CITY LIMITS)



LEFT TURN LANE RUMBLE STRIP DETAIL

USE DETAIL FOR ALL LEFT TURN LANE TAPERS

NOTE: TYPICAL SECTIONS AND DETAILS ARE NOT DRAWN TO SCALE

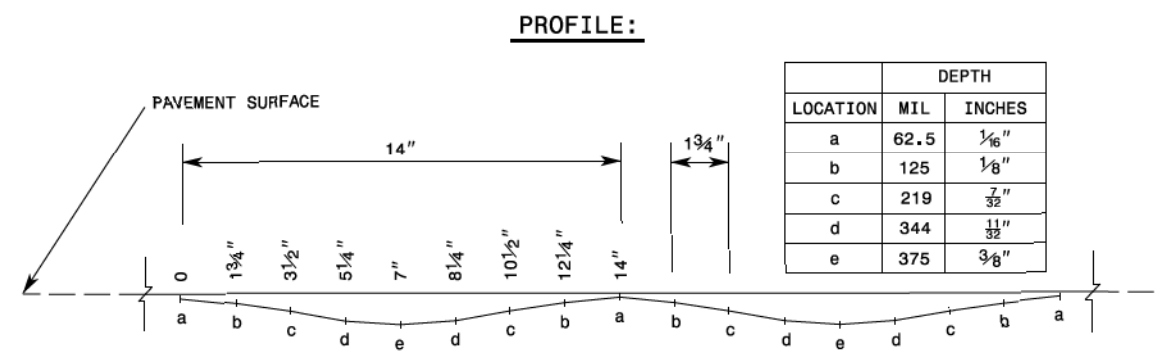
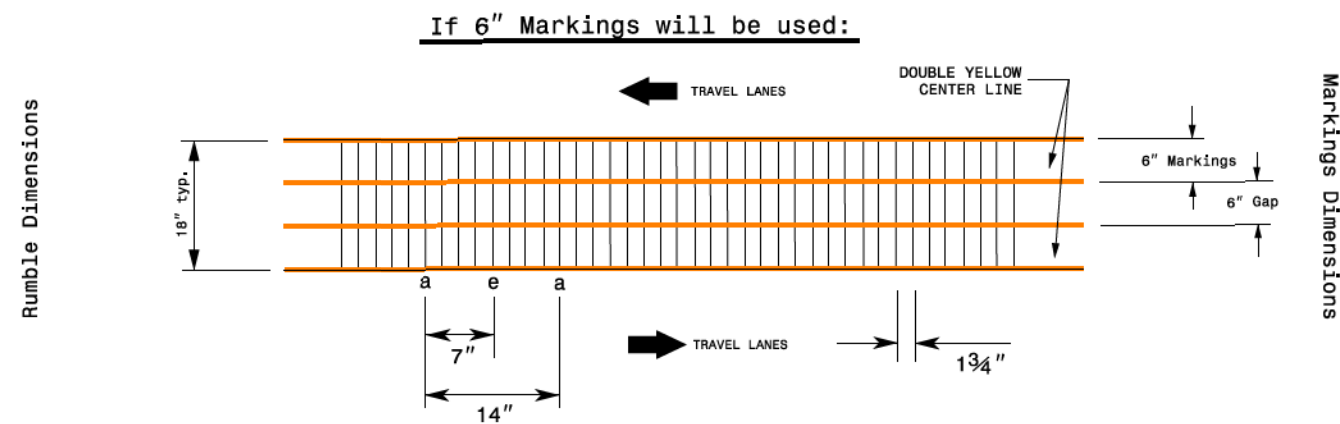
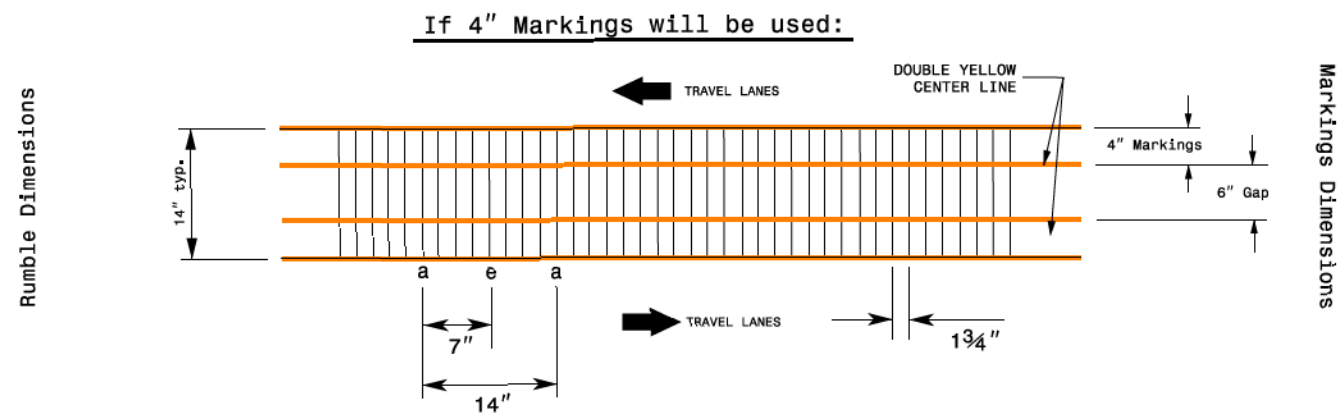
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

2-23

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

See Table 2 within Rumble Strip Policy for Design Guidance



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

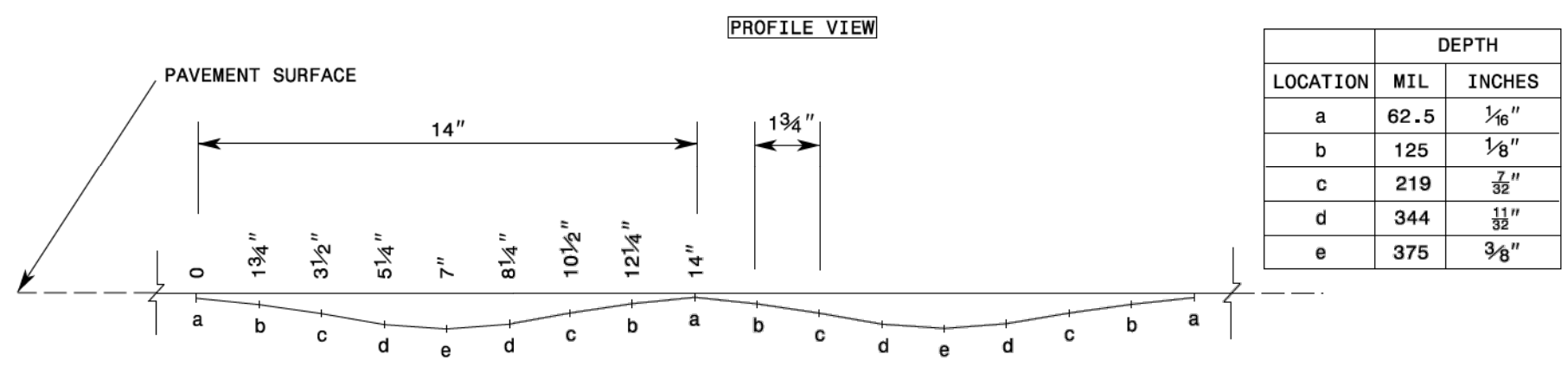
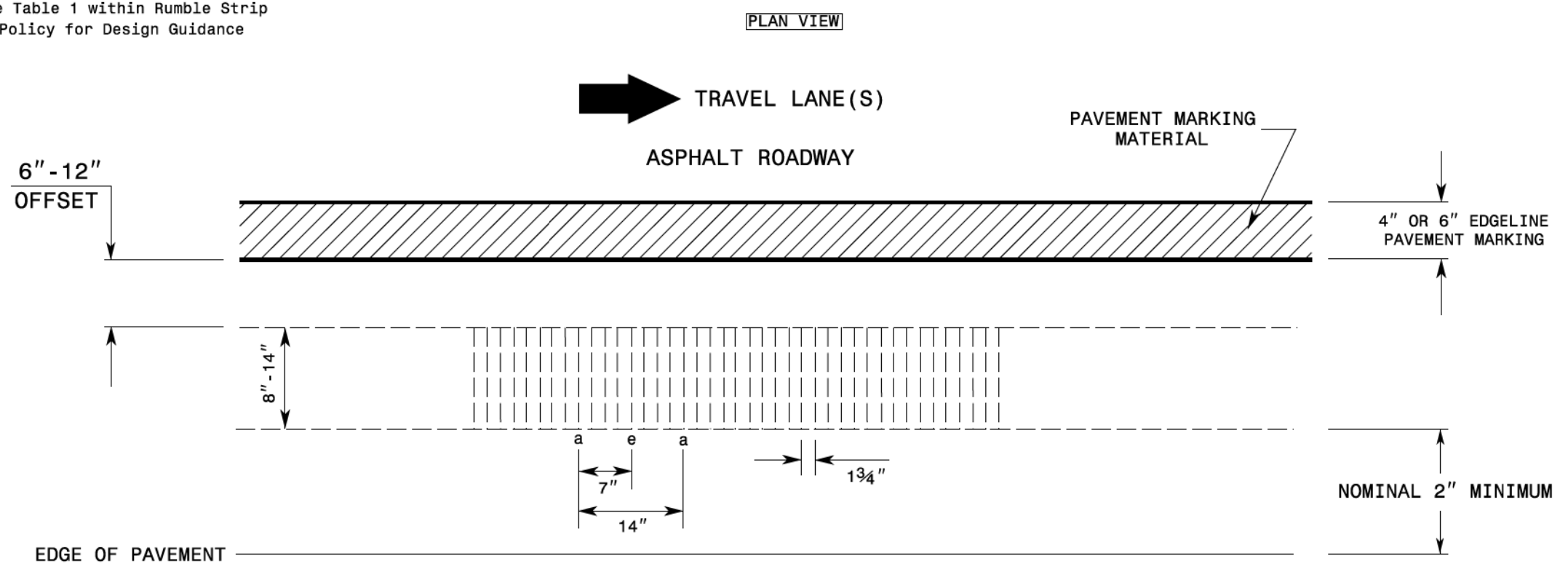
SHEET 6 OF 7

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

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
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

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

SHEET 2 OF 7

PROJECT NO.	SHEET NO.	TOTAL NO.
51114 (SS-6208L)	5	

SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	BEGIN MP	END MP	1881000000-E	1881000000-E
										MI	FT			GENERIC PAVING ITEM - SINUSOIDAL RUMBLE STRIPS (18" CENTERLINE)	GENERIC PAVING ITEM - SINUSOIDAL RUMBLE STRIPS (8" EDGELINE)
51114 (SS-6208L)	Scotland	1	US-401 LAURINBURG CL TO WAGRAM CL	SINUSOIDAL RUMBLE STRIPS FROM LAURINBURG CITY LIMITS TO WAGRAM CITY LIMITS		2	2WU	NO	NO	6.52	26	10.28	16.8	28,700.00	67,090.00
TOTAL FOR MAP NO. 1										6.52				28,700.00	67,090.00
51114 (SS-6208L)	Scotland	2	US-401 WAGRAM CL TO HOKE CO	SINUSOIDAL RUMBLE STRIPS FROM WAGRAM CITY LIMITS TO SCOTLAND COUNTY LINE		2	2WU	NO	NO	0.65	26	17.91	18.56	3,430.00	6,860.00
TOTAL FOR MAP NO. 2										0.65				3,430.00	6,860.00
51114 (SS-6208L)	Hoke	3	US-401 SCOTLAND CO TO RAEFORD CL	SINUSOIDAL RUMBLE STRIPS FROM SCOTLAND COUNTY LINE TO RAEFORD CITY LIMITS		2	2WU	NO	NO	7.76	26	0.04	7.8	32,890.00	79,170.00
TOTAL FOR MAP NO. 3										7.76				32,890.00	79,170.00
TOTAL FOR PROJ NO. 51114 (SS-6208L)										14.93				65,020.00	153,120.00
GRAND TOTAL										14.93				65,020.00	153,120.00

PROJECT NO.	SHEET NO.	TOTAL NO.
51114 (SS-6208L)	6	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4457000000-N	4688000000-E	4850000000-E
								MI	FT			TEMPORARY TRAFFIC CONTROL	6" X 90 M YELLOW THERMO	4" LINE REMOVAL
												LS	LF	LF
51114 (SS-6208L)	Scotland	1	US-401 LAURINBURG CL TO WAGRAM CL	SINUSOIDAL RUMBLE STRIPS FROM LAURINBURG CITY LIMITS TO WAGRAM CITY LIMITS		2	2WU	6.52	26	10.28	16.8	*	25,590	25,590
TOTAL FOR MAP NO. 1								6.52					25,590	25,590
51114 (SS-6208L)	Scotland	2	US-401 WAGRAM CL TO HOKE CO	SINUSOIDAL RUMBLE STRIPS FROM WAGRAM CITY LIMITS TO SCOTLAND COUNTY LINE		2	2WU	0.65	26	17.91	18.56		6,370	6,370
TOTAL FOR MAP NO. 2								0.65					6,370	6,370
51114 (SS-6208L)	Hoke	3	US-401 SCOTLAND CO TO RAEFORD CL	SINUSOIDAL RUMBLE STRIPS FROM SCOTLAND COUNTY LINE TO RAEFORD CITY LIMITS		2	2WU	7.76	26	0.04	7.8		31,900	31,900
TOTAL FOR MAP NO. 3								7.76					31,900	31,900
TOTAL FOR PROJ NO. 51114 (SS-6208L)								14.93				1.000	63,860	63,860
GRAND TOTAL								14.93				1.000	63,860	63,860

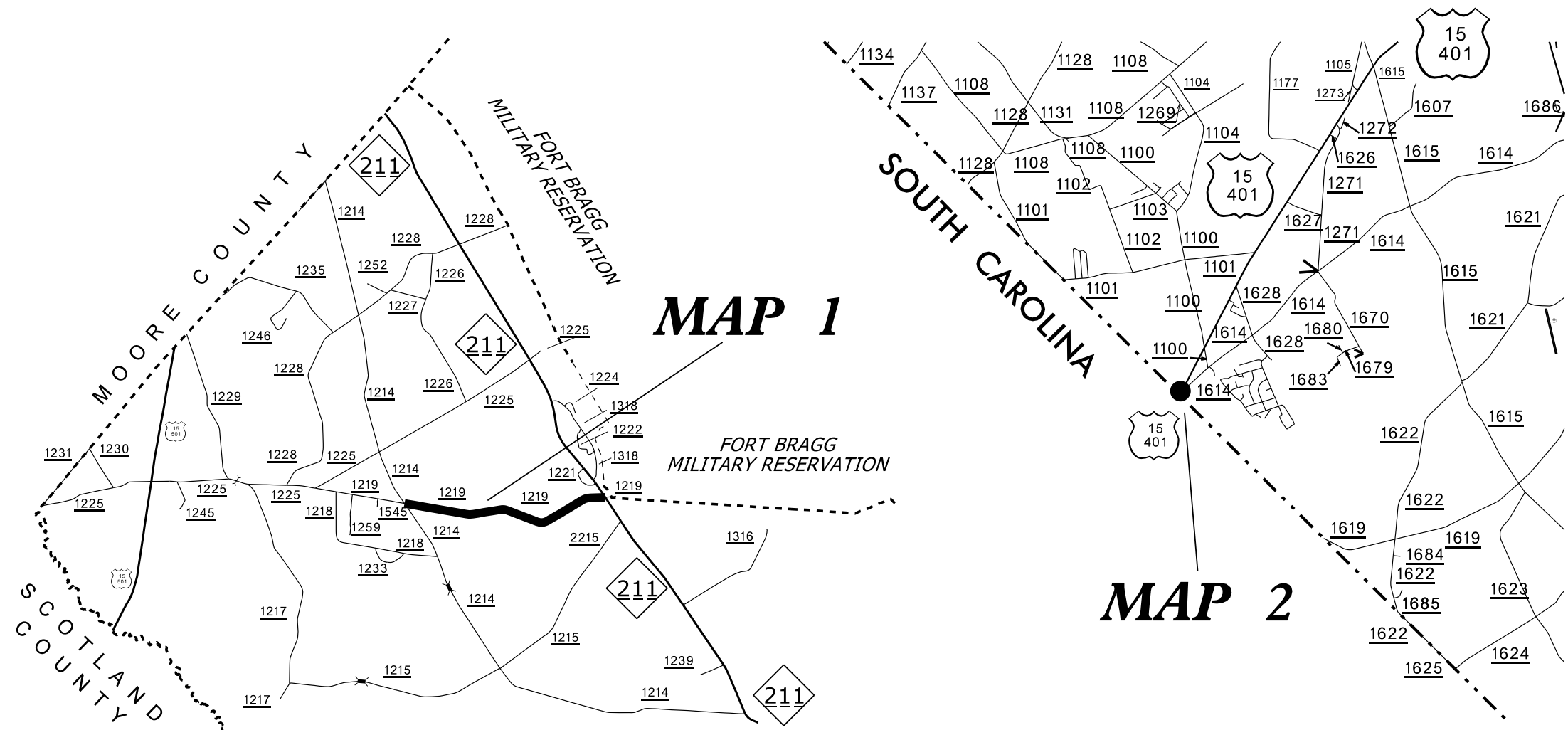
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SS-6208M	1	4
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
5115		CONST	

HOKE AND SCOTLAND COUNTY

LOCATIONS: SR 1219 (ARMY RD) IN HOKE COUNTY FROM SR 1214 (CALLOWAY RD) TO NC 211,
& US 15-401 AT SR 1614 (BARNES BRIDGE RD) IN SCOTLAND COUNTY
TYPE OF WORK: LINE REMOVAL & THERMOPLASTIC MARKINGS

PROJECT: SS-6208M



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CONTRACT:

<p>SHEET INDEX</p> <p>2 TYPICAL SECTION 3 INTERSECTION DETAIL 4 SOQ</p>	<p>DESIGN DATA</p> <p>FUNC CLASS =</p>	<p>Prepared In the Office of:</p> <p>DIVISION OF HIGHWAYS DIVISION 8 DESIGN & CONSTRUCT UNIT 121 DOT DRIVE CARTHAGE NC 28327 PLANS PREPARED BY: DDC</p>		<p>DIVISION OF HIGHWAYS</p> <p>2024 STANDARD SPECIFICATIONS</p>			<p>DIVISION PROJECT ENGINEER</p>
		<p>GRAPHIC SCALES</p> <p>N/A</p>	<p>PROJECT LENGTH</p> <p>TOTAL LENGTH: 2.53 MILES</p>	<p>RIGHT OF WAY DATE:</p> <p>N/A</p>	<p>LETTING DATE:</p> <p>September 10, 2024</p>		

PAVEMENT SCHEDULE

P1

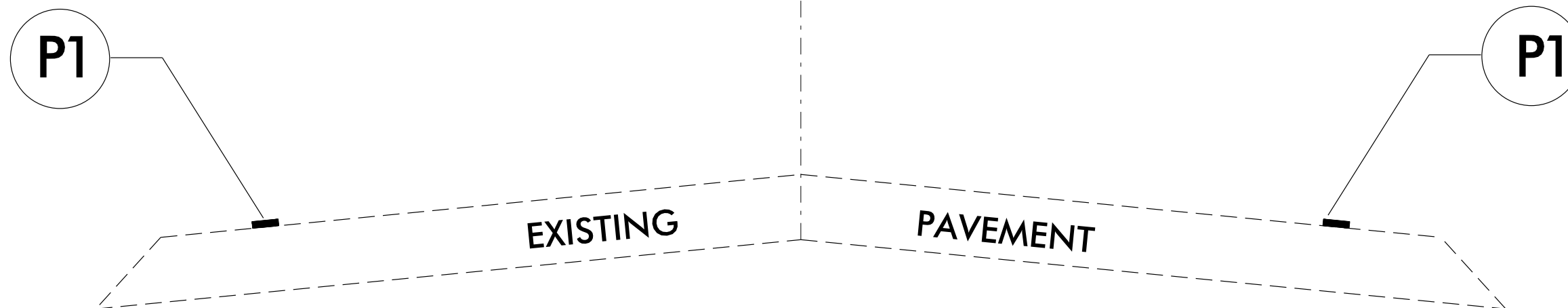
PROP. 6" 90 MIL WHITE THERMOPLASTIC
PAVEMENT MARKING LINES (EDGELINES)

NOTES:

1. REMOVE ALL DEBRIS FROM LINE REMOVAL JUST PRIOR TO PLACING ANY NEW PAVEMENT MARKINGS

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

SR 1219 (ARMY RD)

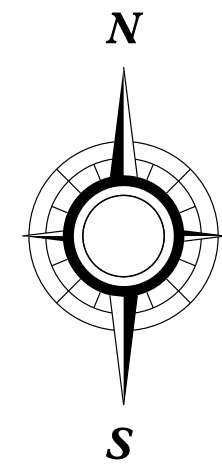


TYPICAL SECTION

USE TYPICAL SECTION AS FOLLOWS:
 SR 1219 (ARMY RD) IN HOKE COUNTY:
 FROM MP 1.08 (SR 1214 CALLOWAY RD)
 TO MP 3.61 (NC 211)

PROJECT REFERENCE NO.	SHEET NO.
SS-6208M	3
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

***US 15-401 AT SR 1614 (BARNES BRIDGE RD)
INSTALL CENTERLINE MINI SKIP MARKINGS
(4", 90 MILS)***



SCOTLAND COUNTY

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PROJECT NO.	SHEET NO.	TOTAL NO.
51115 (SS-6208M)	4	

THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	4457000000-N	4685000000-E	4688000000-E	4850000000-E
												TEMPORARY TRAFFIC CONTROL	4" X 90 M YELLOW THERMO	6" X 90 M WHITE THERMO	4" LINE REMOVAL
												LS	LF	LF	LF
51115 (SS-6208M)	Hoke	1	SR-1219 (ARMY RD)	RESTRIPING FROM SR 1214 (CALLOWAY RD) TO NC 211		2	2WU	2.526	24	1.084	3.61	1.0000		26,720	26,720
TOTAL FOR MAP NO. 1								2.526				1		26,720	26,720
51115 (SS-6208M)	Scotland	2	US-15	INTERSECTION OF US 15-401 AND SR 1614 (BARNES BRIDGE RD)		2	2WU	0.01	24	0.05	0.06		50		
TOTAL FOR MAP NO. 2								0.01					50		
TOTAL FOR PROJ NO. 51115 (SS-6208M)								2.536				1.000	50	26,720	26,720
GRAND TOTAL								2.536				1.000	50	26,720	26,720