

WBS NO: 50973.3.18

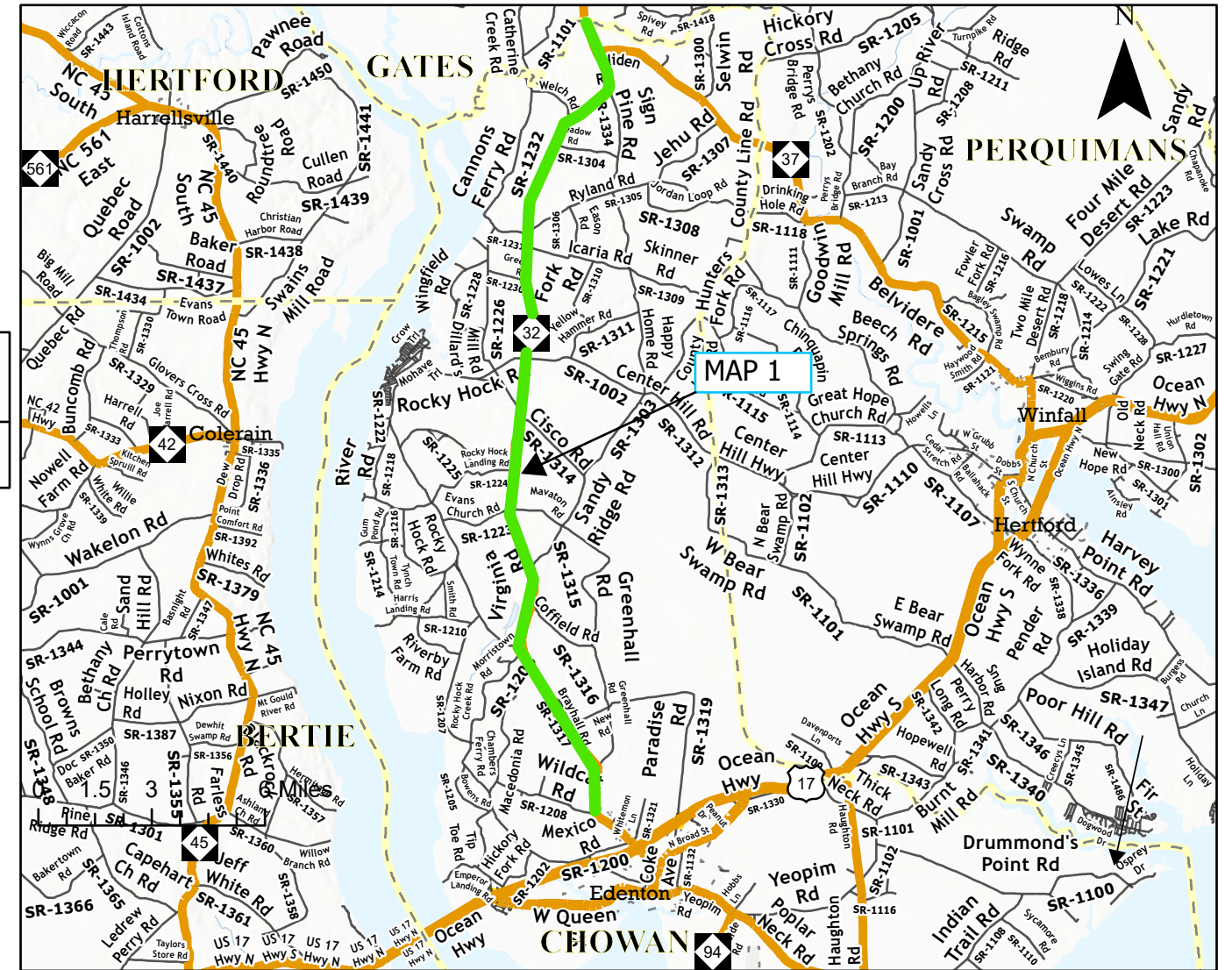
CONTRACT: DA00651

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**CHOWAN**

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	50973.3.18	1
STATE PROJECT NUMBER		DESCRIPTION
50973.3.18		CONST.
HS-2401Q		TIP

TYPE OF WORK: SINUSOIDAL RUMBLE STRIPS, PAVEMENT MARKINGS, & SNOWPLOWABLE PAVEMENT MARKERS

Map	Route	From	To
1	NC 32	SR 1208 WILDCAT RD	GATES CO



**PROJECT LENGTH**

Map	Length
1	18.40 MILES

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**  
 DIVISION PROJECT TEAM LEAD

**D. H. STALLINGS**  
 DIVISION DESIGN ENGINEER



WBS NO: 50973.3.18

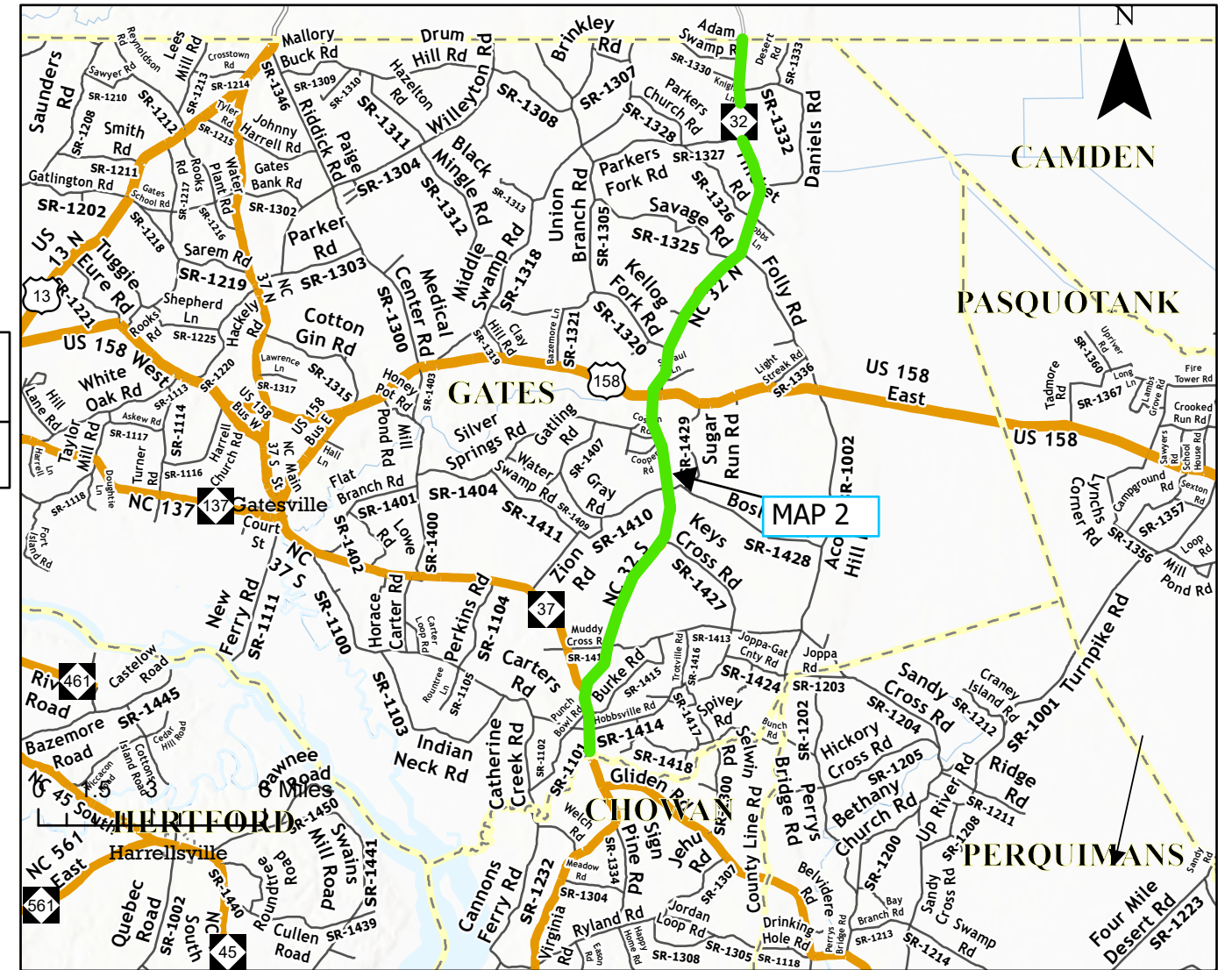
CONTRACT: DA00651

STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**GATES**

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	50973.3.18	2
STATE PROJECT NUMBER		DESCRIPTION
50973.3.18		CONST.
HS-2401Q		TIP

*TYPE OF WORK: SINUSOIDAL RUMBLE STRIPS, PAVEMENT MARKINGS, & SNOWPLOWABLE PAVEMENT MARKERS*

Map	Route	From	To
2	NC 32	CHOWAN CO LINE	VA STATE LINE



**PROJECT LENGTH**

Map	Length
2	16.70 MILES

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. CLOGDO, PE**  
 DIVISION PROJECT TEAM LEAD

**D. H. STALLINGS**  
 DIVISION DESIGN ENGINEER



WBS NO: 50973.3.18

CONTRACT: DA00651

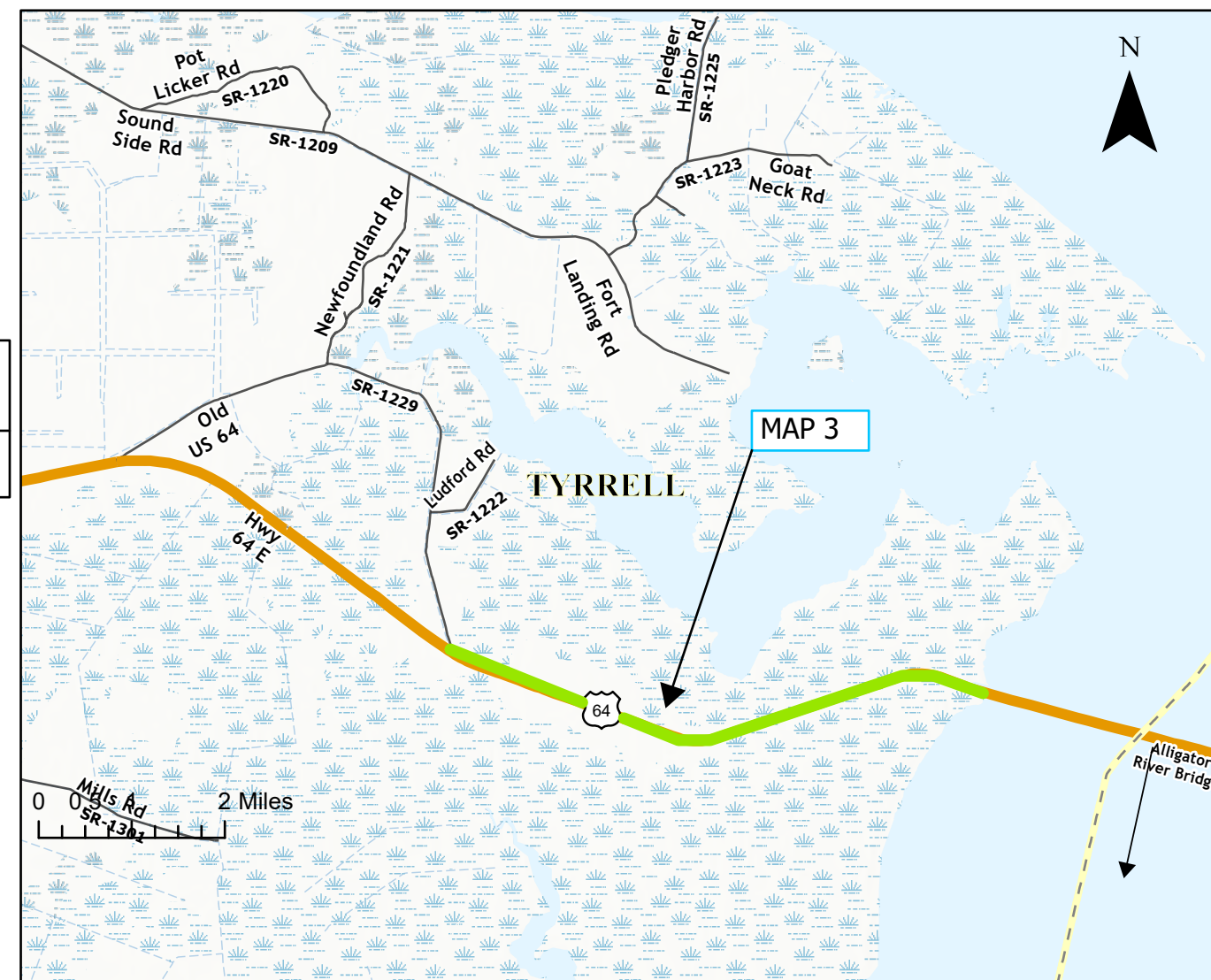
**STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS**

**TYRRELL**

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	50973.3.18	3
STATE PROJECT NUMBER		DESCRIPTION
50973.3.18		CONST.
HS-2401Q		TIP

*TYPE OF WORK: SINUSOIDAL RUMBLE STRIPS, PAVEMENT MARKINGS, & SNOWPLOWABLE PAVEMENT MARKERS*

Map	Route	From	To
3	US 64	SR 1229 OLD US 64	ALLIGATOR RIVER



**PROJECT LENGTH**

Map	Length
3	5 MILES

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

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DIV. PROJ. DEVELOPMENT ENGINEER

M. S. WINSLOW  
DIVISION CONTRACT ENGINEER

D. J. CLODGO, PE  
DIVISION PROJECT TEAM LEAD

D. H. STALLINGS  
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WBS NO: 50973.3.18

CONTRACT: DA00651

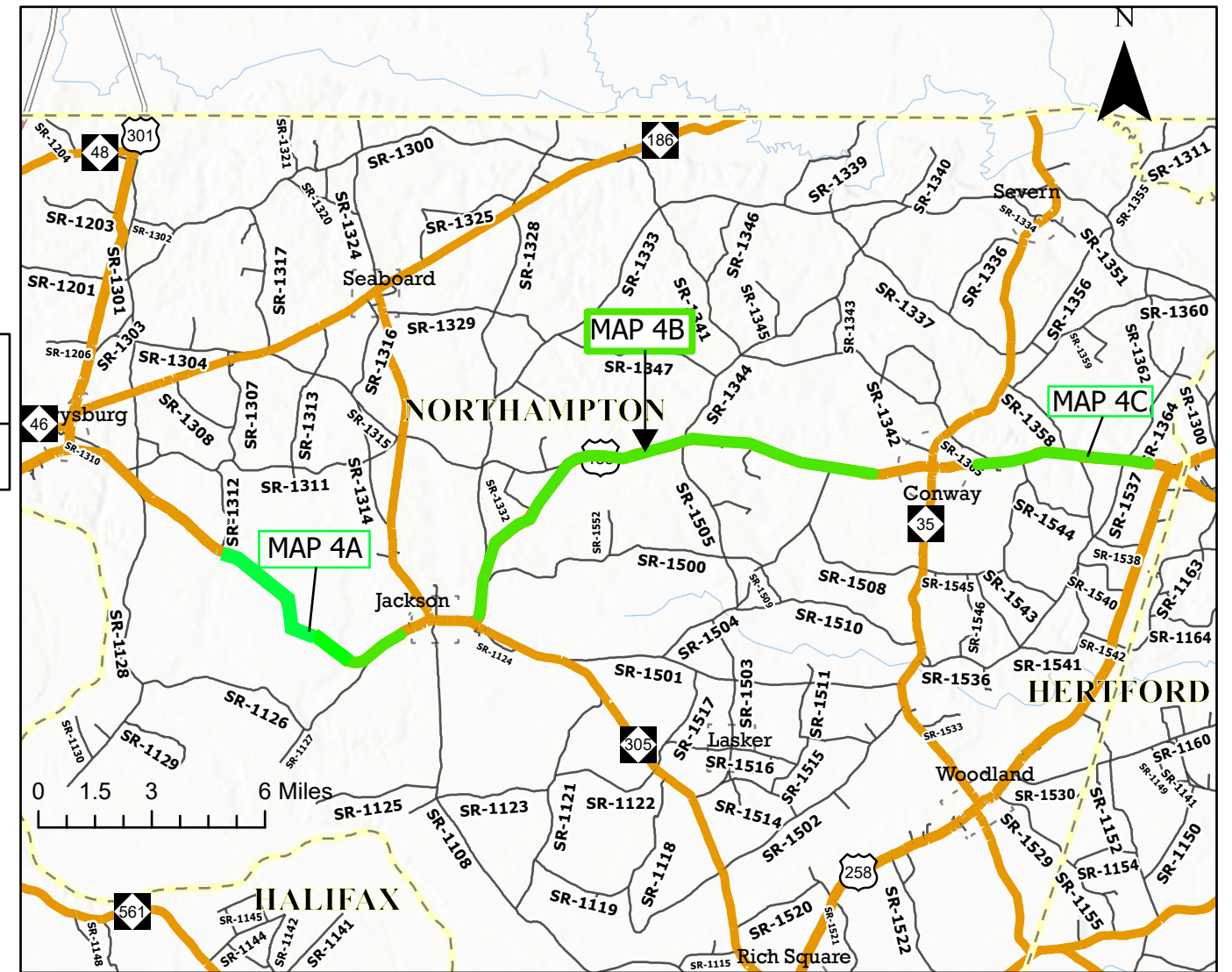
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
**NORTHAMPTON**

STATE	STATE PROJECT REFERENCE NUMBER	SHEET NO.
NC	50973.3.18	4
STATE PROJECT NUMBER		DESCRIPTION
50973.3.18		CONST.
HS-2401Q		TIP

*TYPE OF WORK: SINUSOIDAL RUMBLE STRIPS, PAVEMENT MARKINGS, & SNOWPLOWABLE PAVEMENT MARKERS*

Map	Route	From	To
4	US 158	SR 1312 (St John Ch Rd)	DECHARMARNEL DR

\*EXCLUDES CITY LIMITS (C&G SECTIONS) OF JACKSON AND CONWAY



**PROJECT LENGTH**

Map	Length
4	20.03 MILES

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

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 DIV. PROJ. DEVELOPMENT ENGINEER

**M. S. WINSLOW**  
 DIVISION CONTRACT ENGINEER

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

**D. H. STALLINGS**  
 DIVISION DESIGN ENGINEER



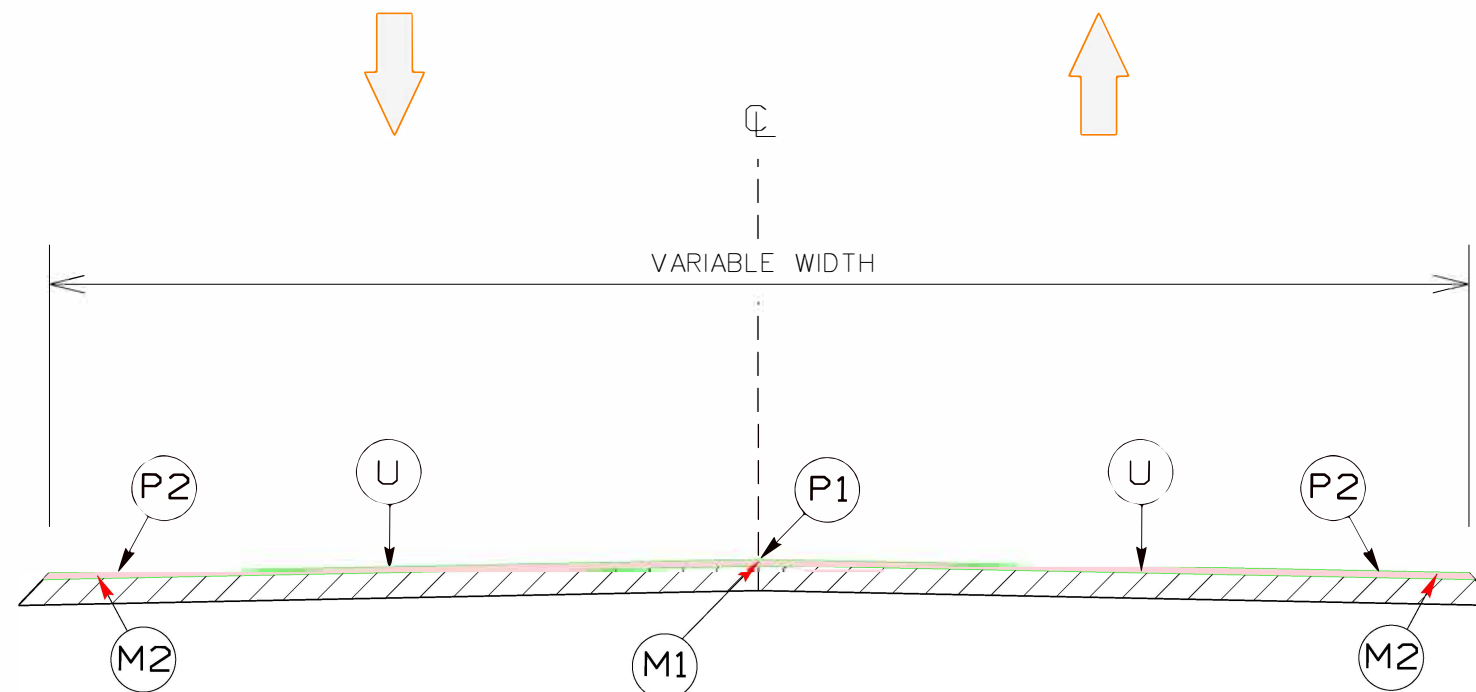
## PAVEMENT SCHEDULE

P1	PROP. APPROX. 6" , 65 MIL YELLOW HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES PLACED ON CENTERLINE
P2	PROP. APPROX. 6" , 65 MIL WHITE HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINES PLACED ON EDGE LINES
M1	PROP. APPROX. 18" SINUSOIDAL RUMBLE STRIPS
M2	PROP. APPROX. 8" SINUSOIDAL RUMBLE STRIPS
U	EXISTING PAVEMENT.

### PAVEMENT MARKING NOTES:

PLACE SINUSOIDAL RUMBLE STRIPS AND HOT SPRAY THERMOPLASTIC MARKING LINES ON CENTERLINE AND EDGE LINES

PLACE SINUSOIDAL SHOULDER RUMBLE STRIPS OUTSIDE OF PAVEMENT MARKINGS IN PAVED SHOULDER AREA WHEN POSSIBLE

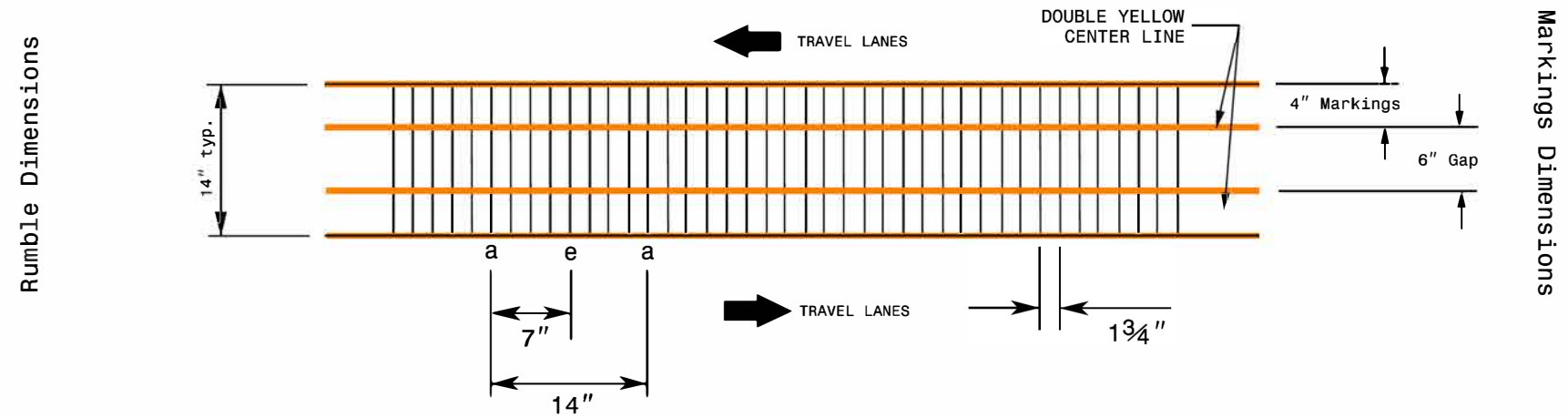


## TYPICAL SECTION NO. 1

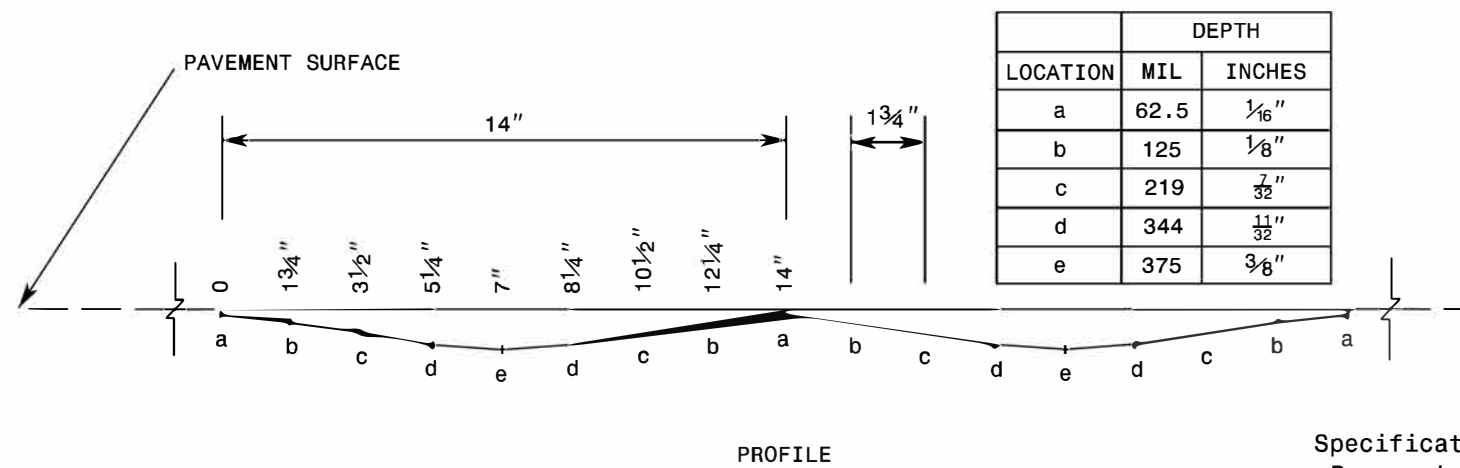
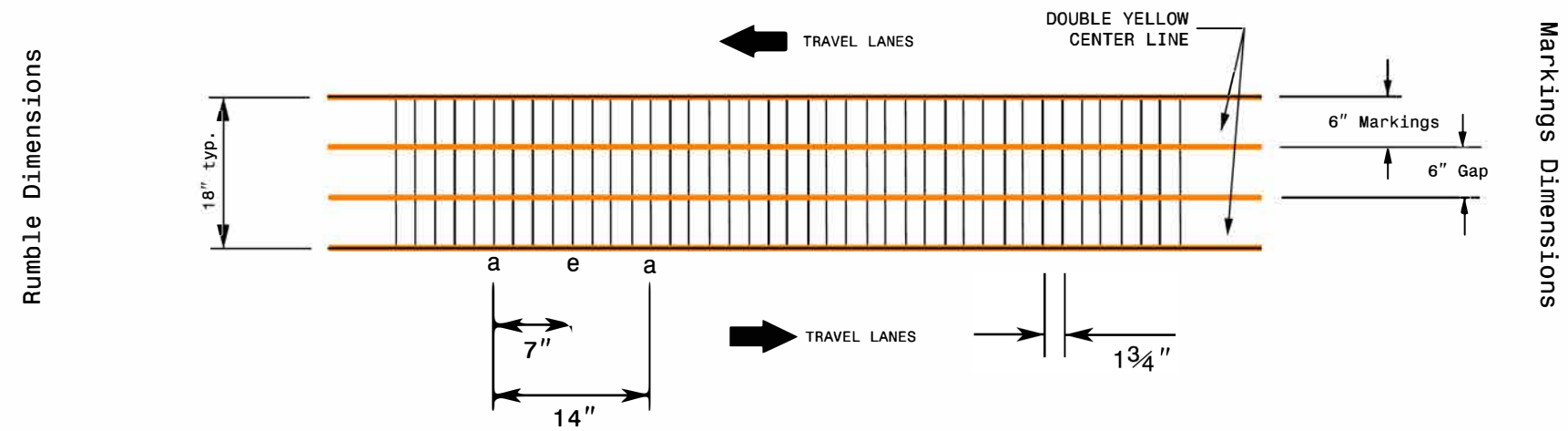
USE WITH MAPS 1 - 4

# Sinusoidal Centerline Rumble Stripe

If 4" Markings will be used:

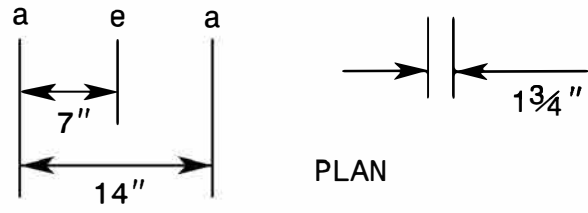
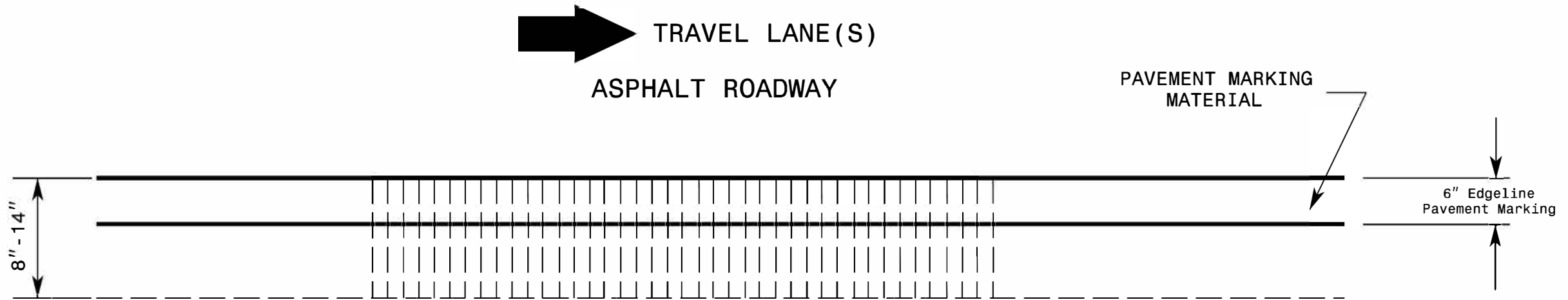


If 6" Markings will be used:

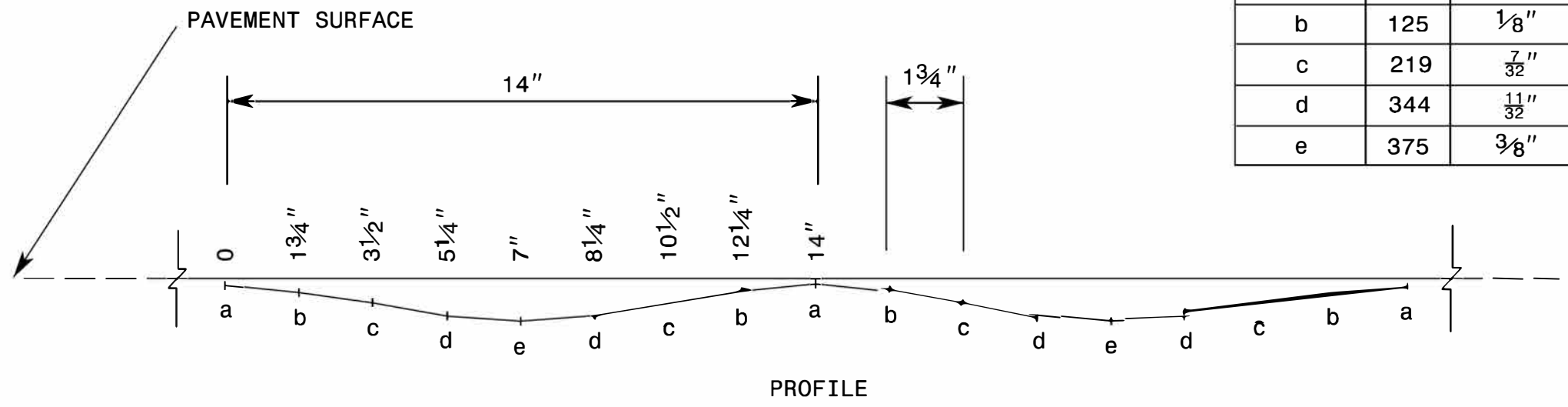


Specifications in table taken from MNDOT  
 Research Project Final Report 2016-23:  
*Sinusoidal Rumble Strip Design Optimization Study*  
 BY: Terhaar et. al, June 2016

# Sinusoidal Edgeline Rumble Stripe



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



Specifications in table taken from MNDOT  
 Research Project Final Report 2016-23:  
*Sinusoidal Rumble Strip Design Optimization Study*  
 BY: Terhaar et. al, June 2016

PROJECT NO.	SHEET NO.	TOTAL NO.
50973.3.18	8	

**SUMMARY OF QUANTITIES**

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	LENGTH	WIDTH	BEGIN MP	END MP	0000100000-N	1881000000-E	1881000000-E	4413000000-E	4457000000-N	4810000000-E		4890000000-E		4895000000-N
								MI	FT			LS	LF	LF	SF	LS	LF	LF	LF	LFT	EA
50973.3.18	Chowan	1	NC-32	FROM SR 1208 WILDCAT RD TO GATES COUNTY LINE		2	2WU	18.4	24	0	18.4	1	104,152	194,304	1,840	1	194,304	128,800	194,304	128,800	1,315
50973.3.18	Gates	2	NC-32	FROM CHOWAN COUNTY LINE TO VIRGINIA STATE LINE		2	2WU	16.7	24	0	16.7	*	88,176	176,352	1,670	*	176,352	110,220	176,352	110,220	1,119
50973.3.18	Tyrrell	3	US-64	FROM SR 1229 OLD US 64 TO ALLIGATOR RIVER		2	2WU	5	28	0	5	*	26,400	52,800	500	*	52,800	33,000	52,800	33,000	330
50973.3.18	Northampton	4	US-158	FROM SR 1351 TO SR 1562 DECHARMANEL DR, EXCLUDING CL JACKSON & CONWAY		2	2WU	20.03	24	0	20.03	*	105,600	211,200	2,000	*	211,200	132,000	211,200	132,000	1,320
<b>TOTAL FOR PROJ NO. 50973.3.18</b>								<b>60.13</b>				<b>1</b>	<b>324,328</b>	<b>634,656</b>	<b>6,010</b>	<b>1</b>	<b>634,656</b>	<b>404,020</b>	<b>634,656</b>	<b>404,020</b>	<b>4,084</b>
																	<b>1,038,676</b>		<b>1,038,676</b>		