

28-FEB-2025 14:45
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Stiff 4365 at 10:59:10 AM

T.I.P.: U-4758

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
GUILFORD COUNTY

LOCATION: SR 1818 (JOHNSON STREET) /SR 1850 (SANDY RIDGE ROAD) FROM
SR 1820 (SKEET CLUB ROAD) TO SOUTH OF I-40 IN HIGH POINT

INDEX

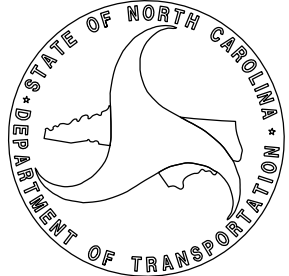
SHEET NO.	DESCRIPTION
PMP-01	PAVEMENT MARKING PLAN TITLE, GENERAL NOTES, ROADWAY STANDARD DRAWINGS, INDEX, AND PAVEMENT MARKING SCHEDULE
PMP-01A-01D	REVISED ROADWAY STANDARD DRAWINGS & SPECIAL DETAILS
PMP-02-26	PAVEMENT MARKING DETAILS

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION
THERMOPLASTIC (4", 90 MILS)	
T1	WHITE EDGE LINE
T2	WHITE SOLID LANE LINE
T3	10 FT. WHITE SKIP
T4	3 FT. - 9 FT./SP WHITE MINISKIP
T5	2 FT. - 6 FT./SP WHITE MINISKIP
T10	YELLOW EDGE LINE
T13	YELLOW DOUBLE CENTER
THERMOPLASTIC (8", 90 MILS)	
T40	WHITE GORE LINE
T41	WHITE DIAGONAL
T42	YELLOW DIAGONAL
T43	WHITE SOLID LANE LINE
T44	3 FT. - 9 FT./SP WHITE MINISKIP
T46	WHITE CROSSWALK LINE
THERMOPLASTIC (24", 90 MILS)	
T61	WHITE STOP BAR
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)	
T70	LEFT TURN ARROW
T71	RIGHT TURN ARROW
T72	STRAIGHT ARROW
T73	COMBO. LEFT/STRAIGHT ARROW
T74	COMBO. RIGHT/STRAIGHT ARROW
T75	COMBO. LEFT/RIGHT ARROW
T76	COMBO. LEFT/RIGHT/STRAIGHT ARROW
T77	U-TURN ARROW
T80	WRONG-WAY RAMP ARROW
T90	BICYCLE SYMBOL
T91	BICYCLE STRAIGHT ARROW
T100	ALPHANUMERIC CHAR.
POLYUREA (4")	
V2	WHITE SOLID LANE LINE
V3	10 FT. WHITE SKIP
V10	YELLOW EDGE LINE
V13	YELLOW DOUBLE CENTER

PLAN SUBMITTED TO: N.C.D.O.T. SIGNING AND DELINEATION UNIT

KELVIN L. JORDAN SIGNING & DELINEATION REGIONAL ENGINEER
WALTER JOHNSON SIGNING & DELINEATION PROJECT DESIGN ENGINEER



GENERAL NOTES

- THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.
- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:
- | ROAD NAME | MARKING | MARKER |
|-----------|---------------|--------|
| -L- | THERMOPLASTIC | RAISED |
| -Y- LINES | THERMOPLASTIC | RAISED |
| BRIDGES | POLYUREA | RAISED |
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.15	PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS
1205.16	BICYCLE FACILITIES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

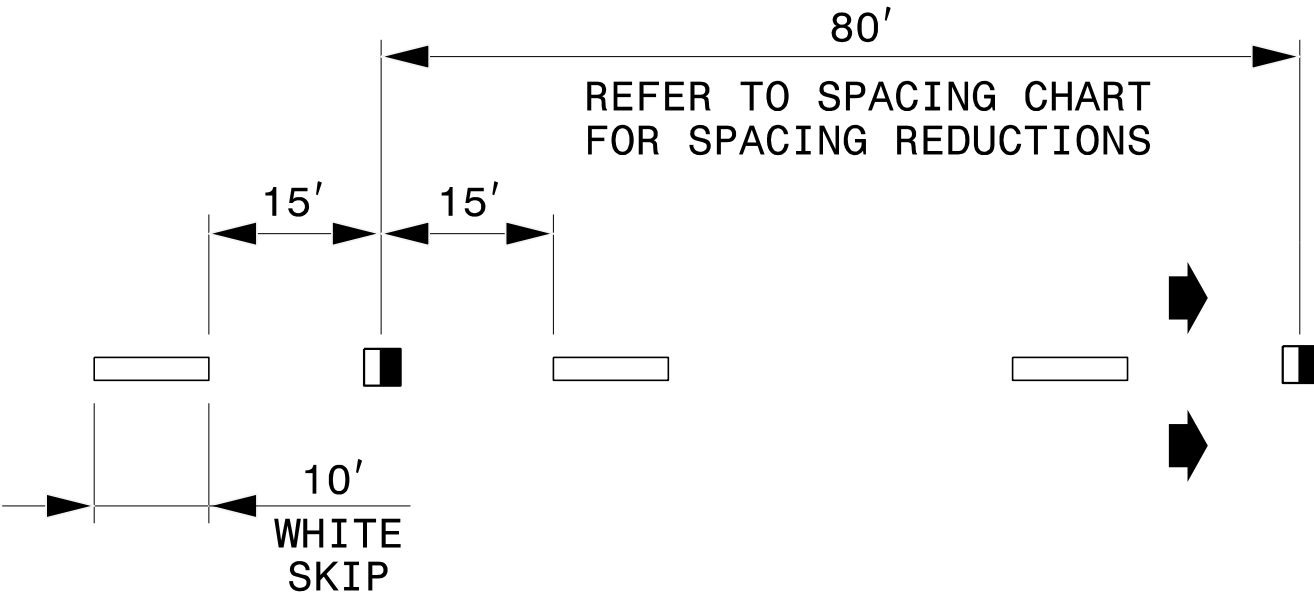
PLAN PREPARED BY: ATKINSREALIS

JAMES T. STIFF, PE TRAFFIC ENGINEER
MILTON R. ACEVEDO, PE TRAFFIC ENGINEER

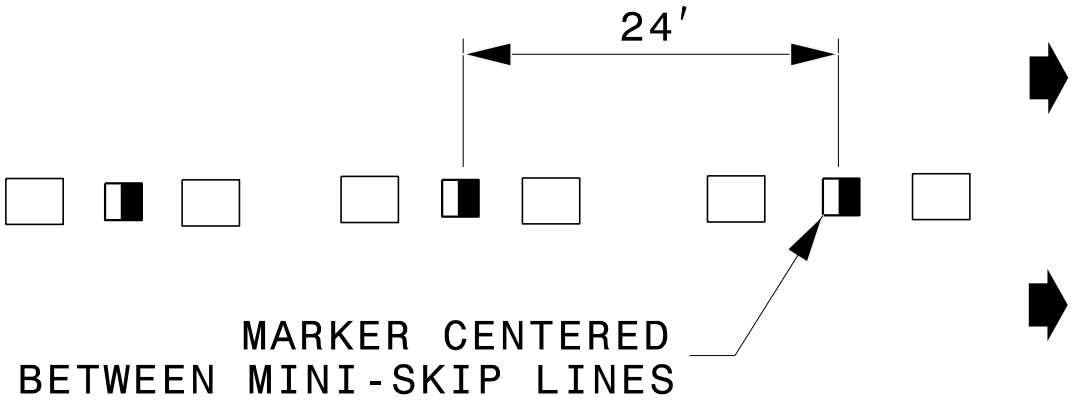
AtkinsRéalis
1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326

TIP NO.	SHEET NO.
U-4758	PMP-01
APPROVED: Signed by: James Stiff 054B0D037872A434	
DATE: 3/14/2025	
SEAL	
Seal of James T. Stiff, Professional Engineer, State of North Carolina, License No. 056276	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

10'-30'/SP SKIP LINE



3'-9'/SP MINI-SKIP LINE



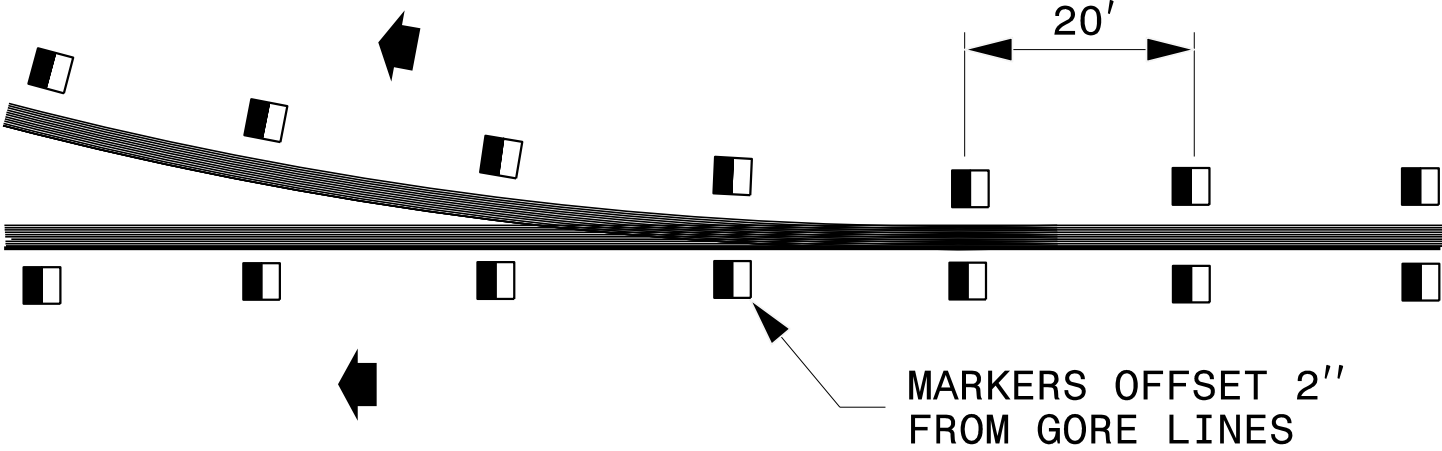
LEGEND

 CRYSTAL/RED PAVEMENT MARKER

 YELLOW/YELLOW PAVEMENT MARKER

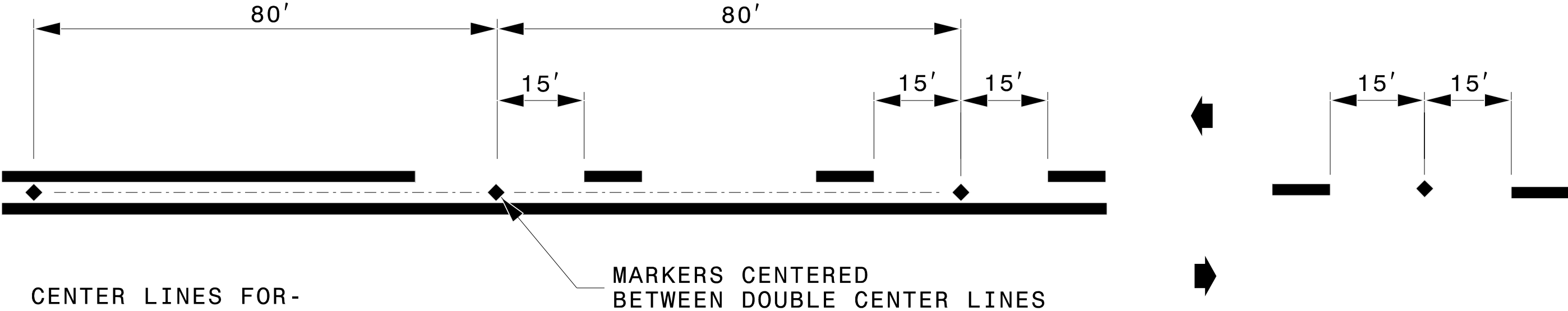
 DIRECTION OF TRAFFIC FLOW

GORE LINES



YELLOW CENTER LINES

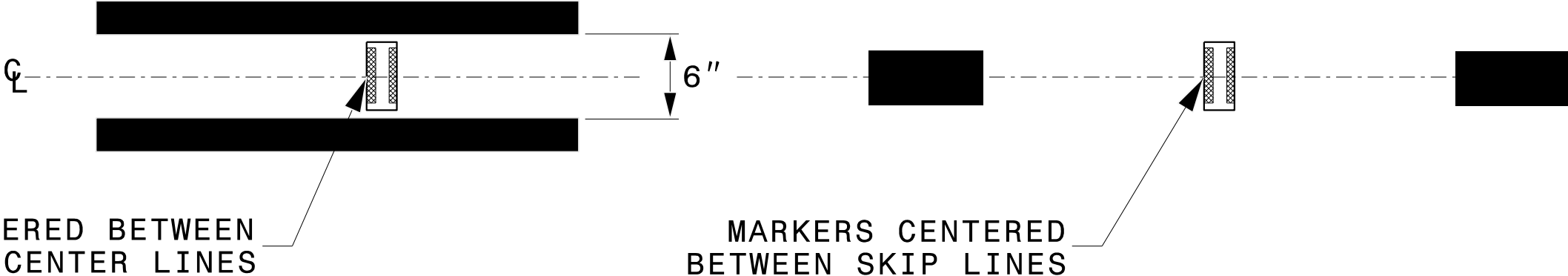
REFER TO SPACING CHART FOR SPACING REDUCTIONS



CENTER LINES FOR -
TWO-LANE, TWO-WAY ROADWAYS
UNDIVIDED ROADWAYS
TWO-WAY LEFT TURN LANES

DETAIL OF PAVEMENT MARKER PLACEMENT

RAISED REFLECTIVE PAVEMENT MARKERS



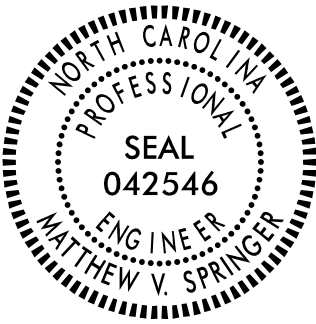
MARKERS CENTERED BETWEEN DOUBLE CENTER LINES

MARKERS CENTERED BETWEEN SKIP LINES

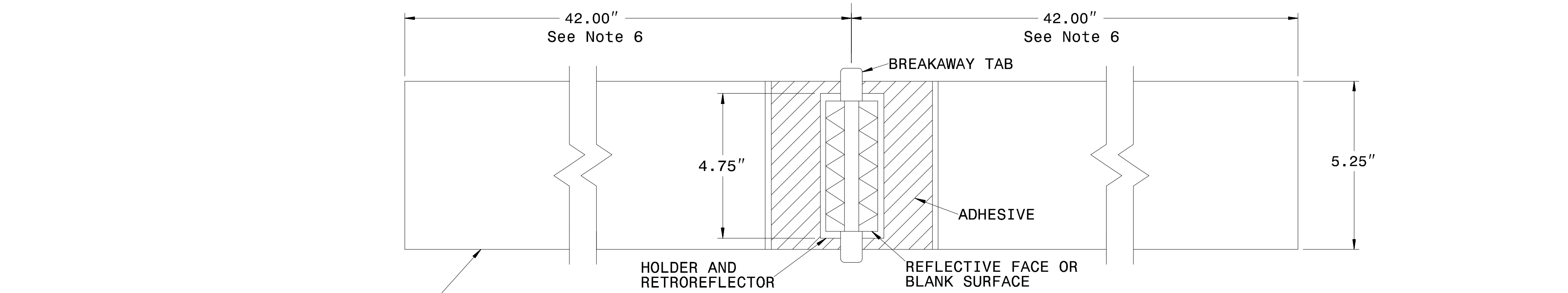
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ROADWAY DETAIL DRAWING FOR
RAISED PAVEMENT MARKERS
INSTALLATION SPACING

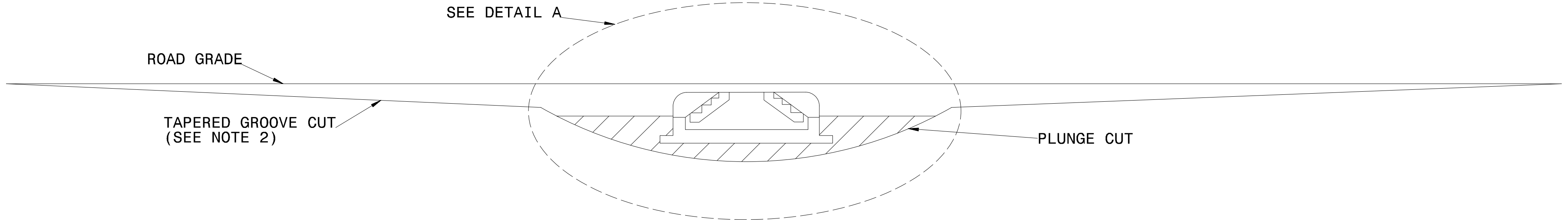
SHEET 2 OF 3
1250D01



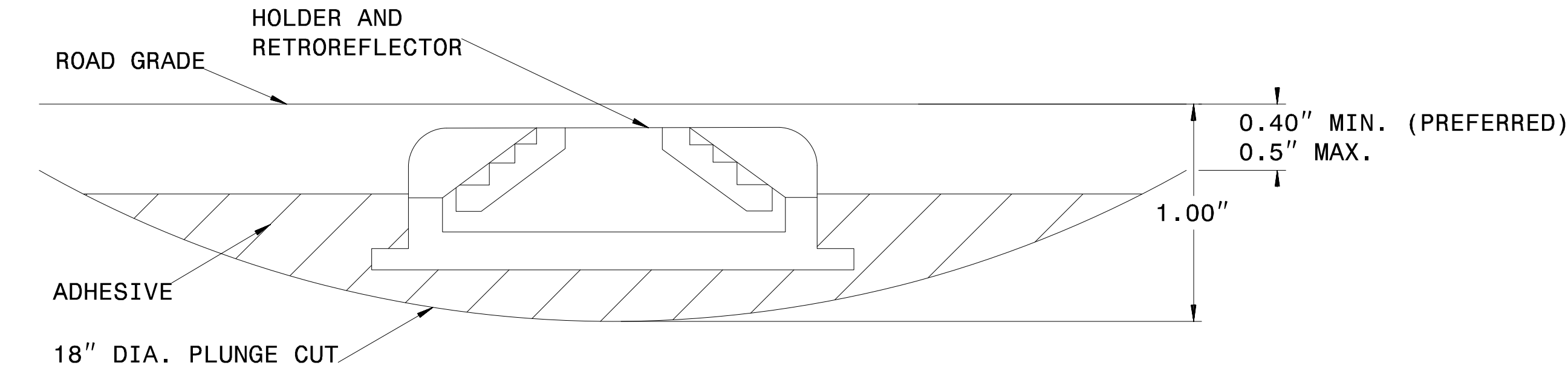
PROJECT REFERENCE NO.	SHEET NO.
U-4758	PMP-01B



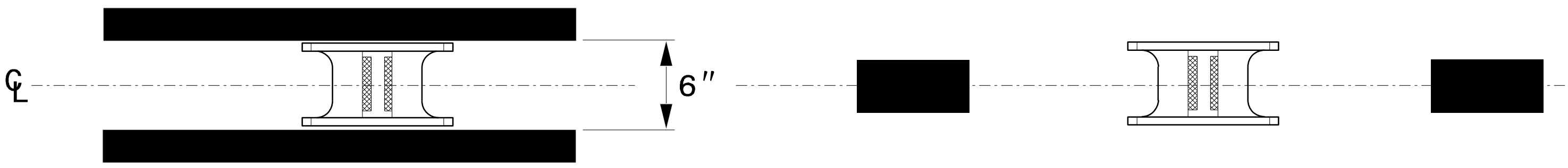
PLAN VIEW - TANGENT SECTIONS



PROFILE VIEW



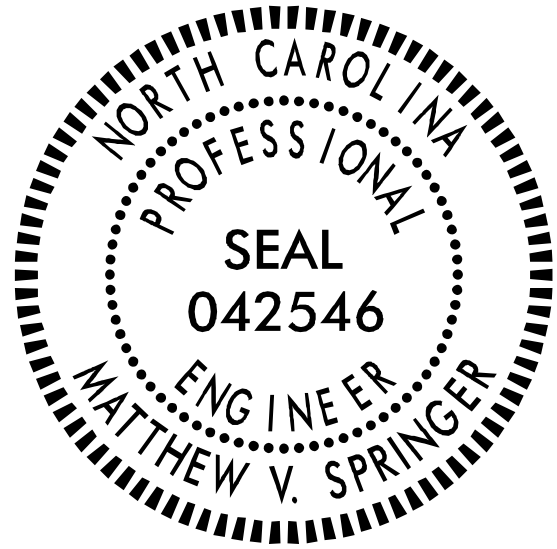
DETAIL A



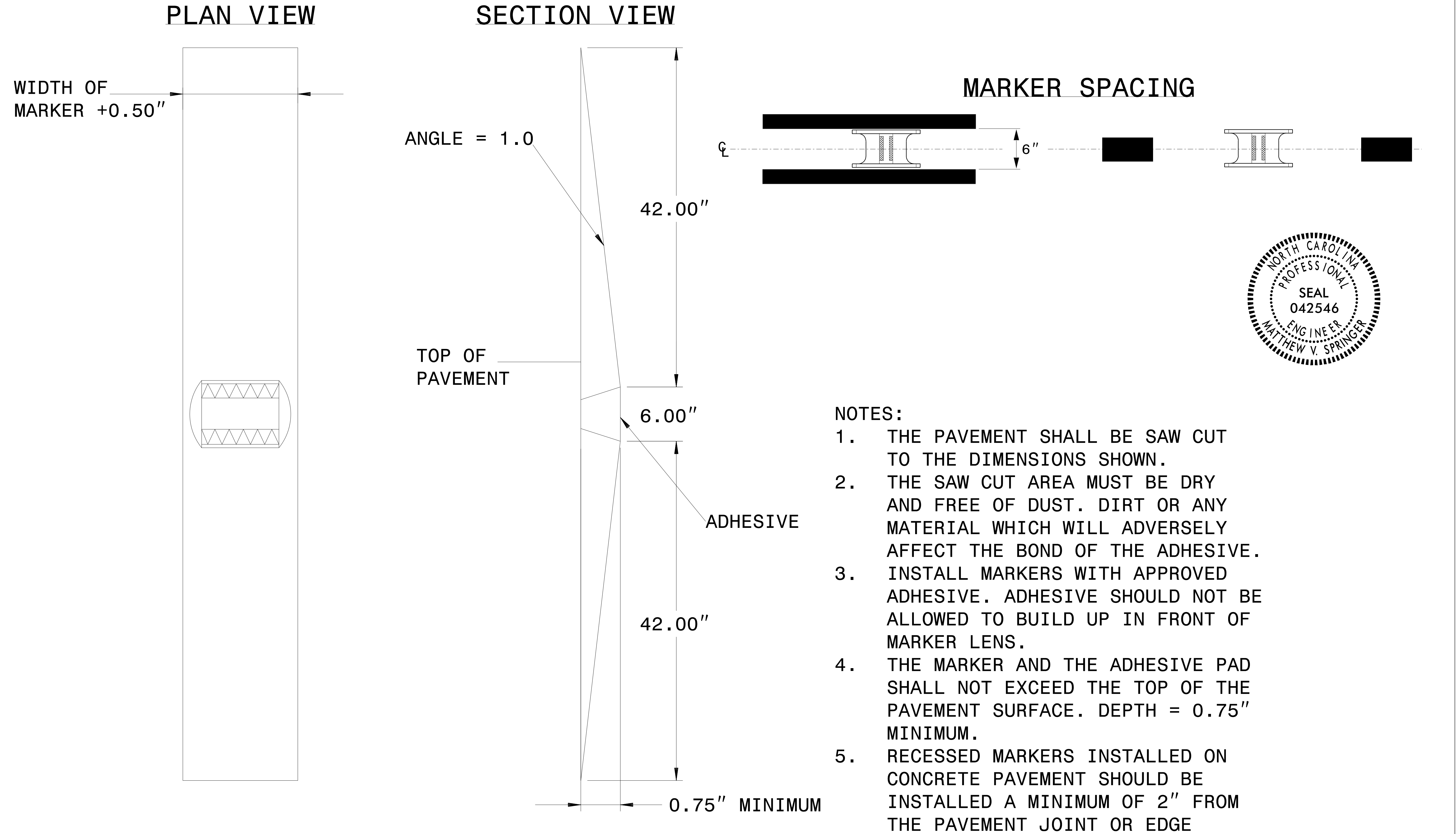
MARKER SPACING

NOTES:

- ALL GROOVE EDGES SHALL BE AT LEAST 2 INCHES FROM ANY SEAM OR PAVEMENT JOINT
- GROOVE CUTS MAY BE TAPERED OR BEVELED. TAPERED CUTS SHALL START AT ROAD LEVEL ON EACH END AND TAPER AT A FIXED RATE AS SHOWN ON THE PROFILE VIEW. BEVELED GROOVE CUTS SHALL BE 0.5" MAXIMUM DEPTH (0.4" PREFERRED), AND SHALL BE 0.4" MINIMUM DEPTH AT BOTH ENDS OF THE PLUNGE CUT.
- GROOVE AND PLUNGE CUT SHALL BE CLEAN AND DRY PRIOR TO PLACEMENT OF ADHESIVE.
- THE EPOXY ADHESIVE SHALL BE THOROUGHLY MIXED UNTIL IT IS UNIFORM IN COLOR, AND APPLIED IN COLOR, AND APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- MARKER SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH THE BREAKWAY TABS RESTING ON THE PAVEMENT SURFACE. THE EPOXY SHALL BE FILLED TO THE LEVEL OF THE TOP OF THE MARKER HOLDER. EPOXY SHALL NOT TOUCH THE RETROREFELCTOR.
- TOTAL GROOVE LENGTH MAY BE SHORTENED TO 54" ON SHARP CURVES IF APPROVED BY THE ENGINEER. GROOVES SHALL NOT OVERLAP WITH LOOP DETECTOR WIRES.



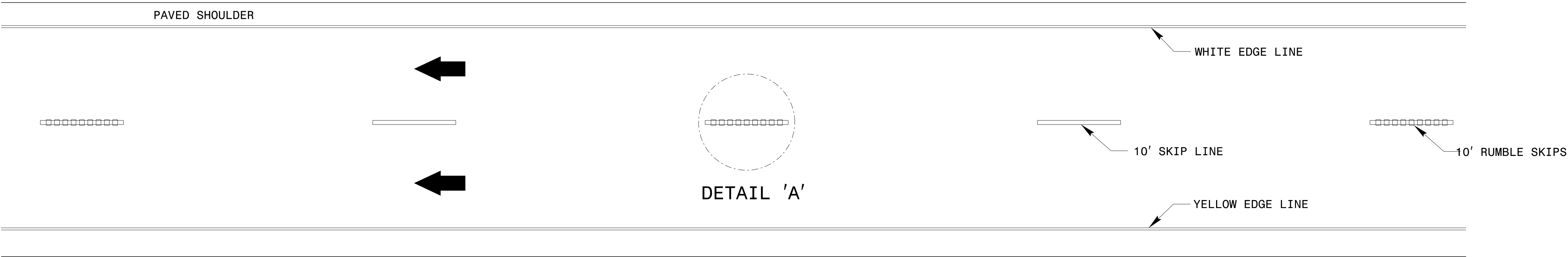
CONTRACTS STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-8950	FAX 919-250-4119
DETAIL OF INLAID CRADLE MARKER	
ORIGINAL BY: rgwatson	DATE: 02-06-2024
MODIFIED BY: _____	DATE: _____
CHECKED BY: _____	DATE: _____
FILE SPEC.: _____	_____



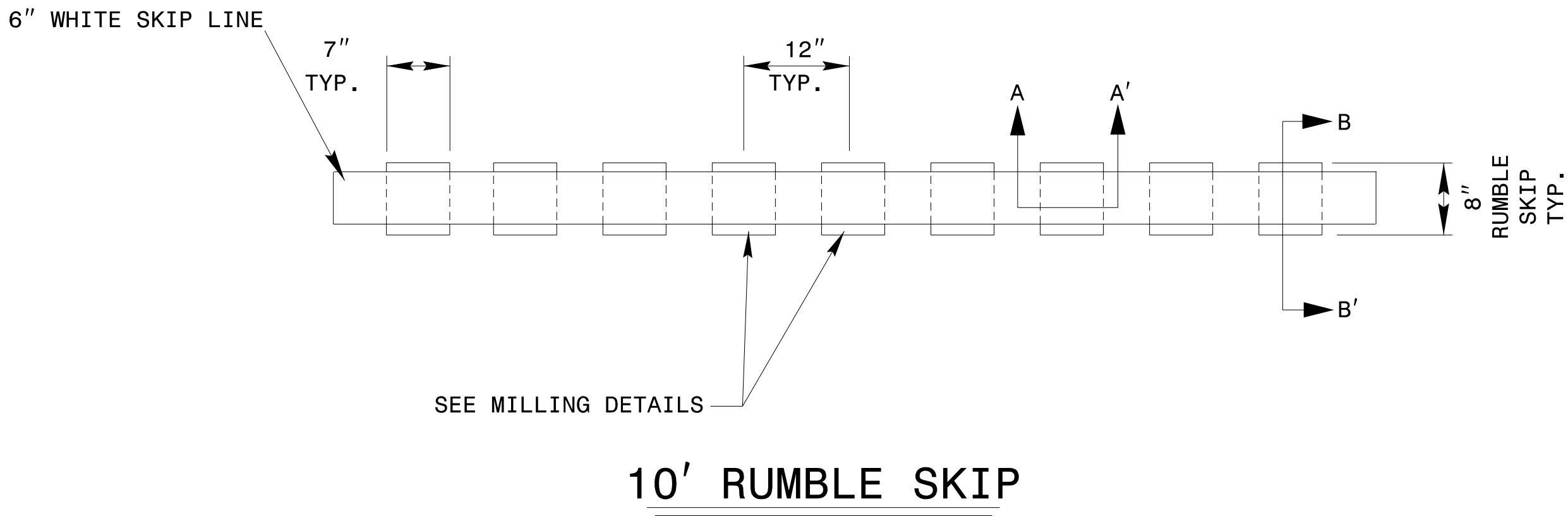
CONTRACTS STANDARDS AND DEVELOPMENT UNIT	
Office 919-707-8950 FAX 919-250-4119	
DETAIL OF INLAID RAISED PAVEMENT MARKER	
ORIGINAL BY: rgwatson	DATE: 02-06-2024
MODIFIED BY:	DATE:
CHECKED BY:	DATE:
FILE SPEC.:	

PROJECT REFERENCE NO.	SHEET NO.
U-4758	PMP-01D

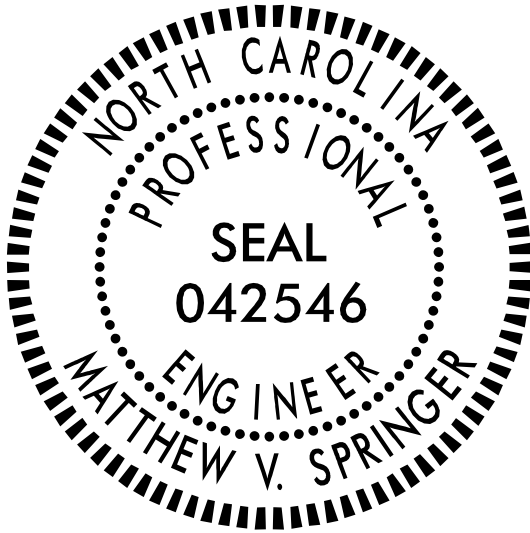
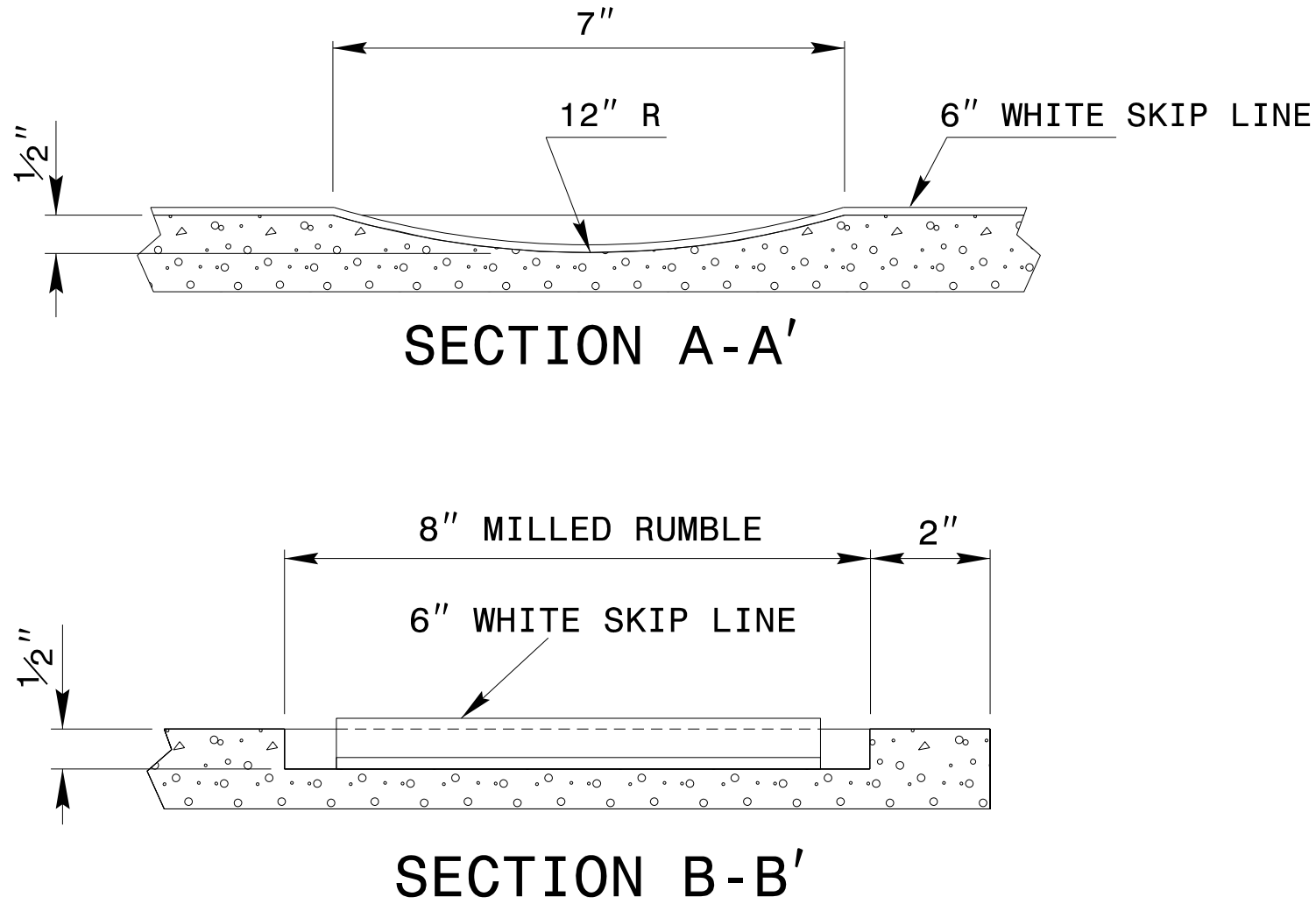
LANE TREATMENT



DETAIL 'A'



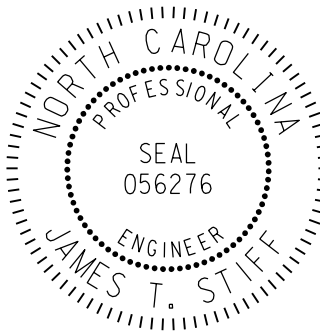
MILLING/MARKING DETAILS



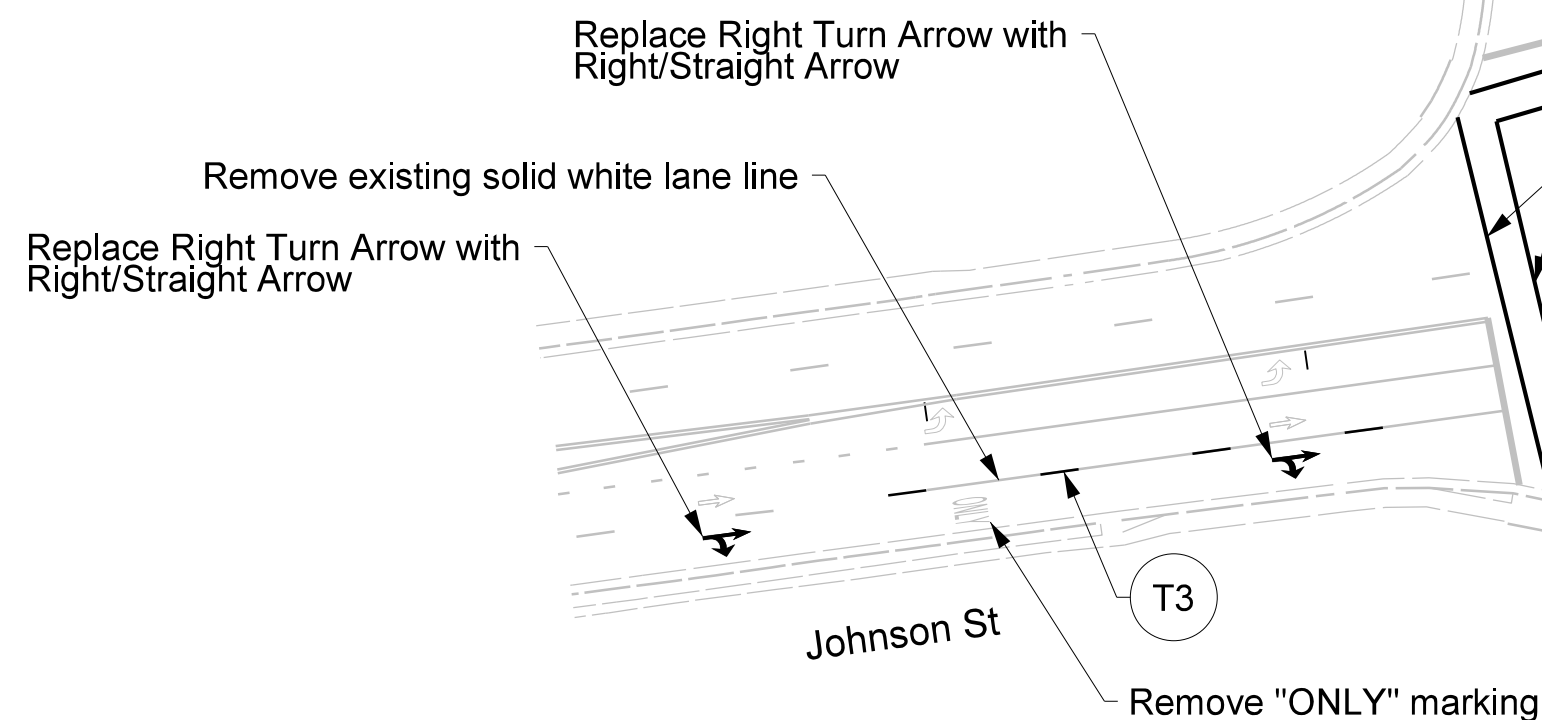
NOTES:

- 1) USING A VACUUM IN THE SAME OPERATION, 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 PAVEMENT MARKING.
- 3) MILL RUMBLES EVERY OTHER SKIP AS SHOWN.
- 4) SEE PLANS FOR MARKING THICKNESS

CONTRACTS STANDARDS AND DEVELOPMENT UNIT Office 919-707-8950 FAX 919-250-4119			
DETAIL OF MILLED RUMBLE SKIPS			
ORIGINAL BY:	rgwatson	DATE:	02-06-2024
MODIFIED BY:		DATE:	
CHECKED BY:		DATE:	
FILE SPEC.:			

TIP NO.	SHEET NO.
U-4758	PMP-02
Signed by:	
APPROVED: <u>James Stiff</u> 0548D0376734504	
DATE: <u>3/14/2025</u>	
SEAL	
	
DO NOT SIGN OR NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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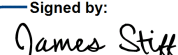
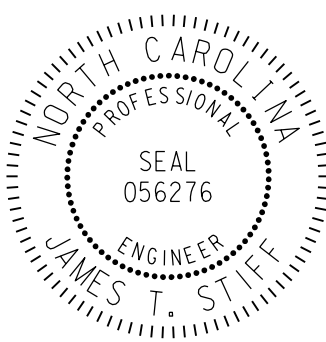
SYMBOL LEGEND		
	T70	LEFT TURN ARROW
	T71	RIGHT TURN ARROW
	T72	STRAIGHT ARROW
	T74	COMBO. RIGHT/STRAIGHT ARROW
	T90	BICYCLE SYMBOL
	T91	BICYCLE STRAIGHT ARROW

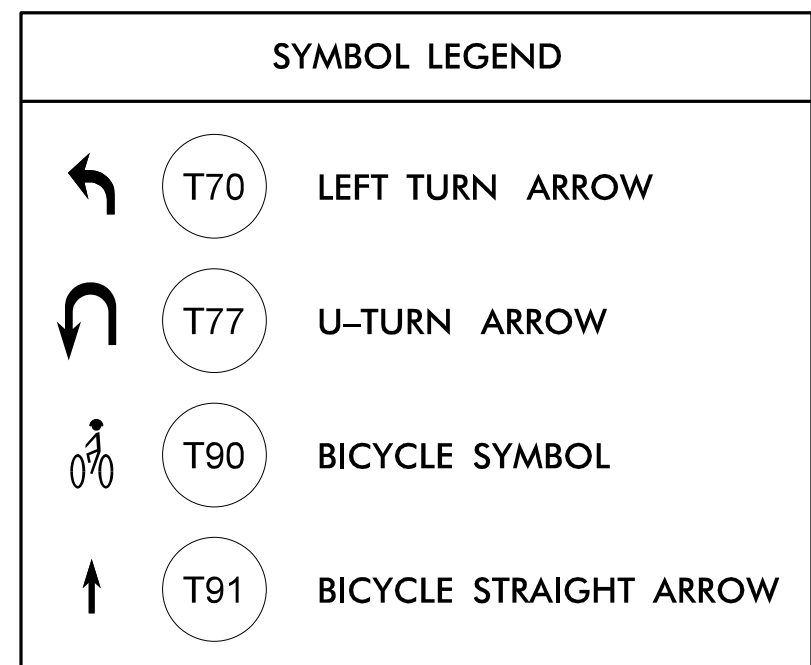
PAVEMENT MARKING DETAIL

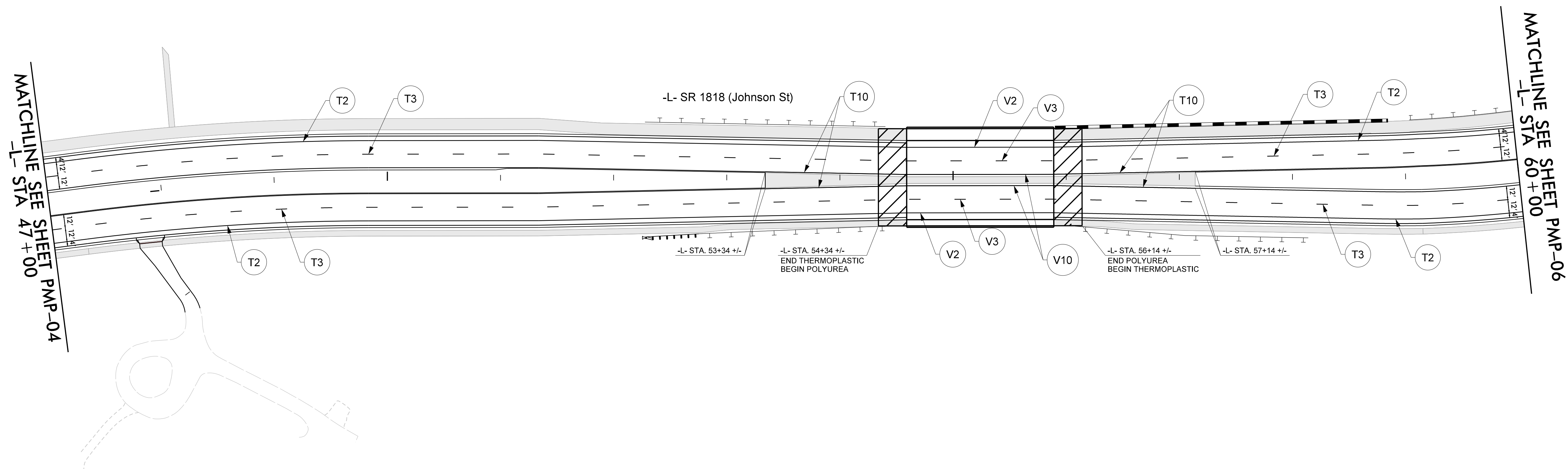
SYMBOL LEGEND		
	T70	LEFT TURN ARROW
	T71	RIGHT TURN ARROW
	T90	BICYCLE SYMBOL
	T91	BICYCLE STRAIGHT ARROW

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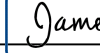
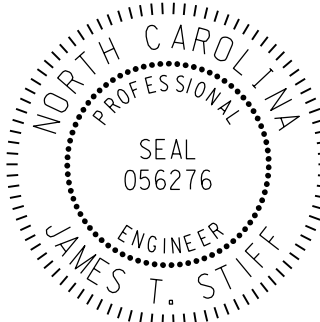


TIP NO.	SHEET NO.
U-4758	PMP-04
Signed by: 	
APPROVED: _____ 0548D0376734504	
DATE: <u>3/14/2025</u>	
SEAL	
	
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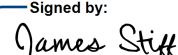
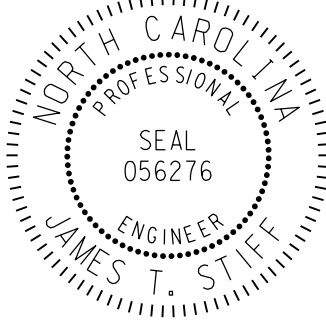


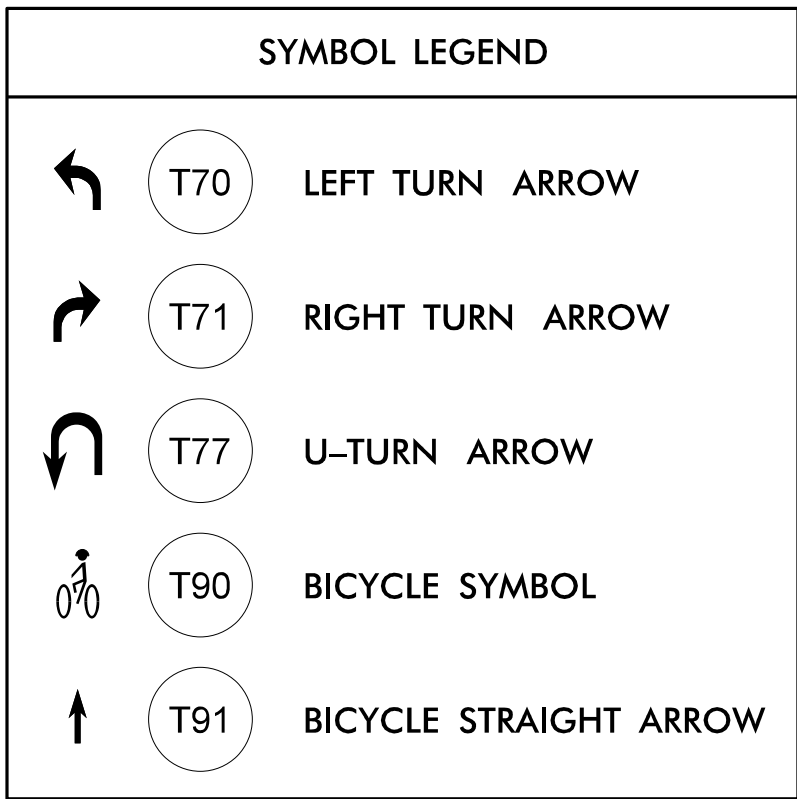


PAVEMENT MARKING DETAIL

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U-4758	PMP-05
Signed by: APPROVED: 	
DATE: 3/14/2025 DS48D0376724434	
SEAL 	
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TIP NO.	SHEET NO.
U-4758	PMP-06
Signed by: 	
APPROVED: _____ 0548D0376737404...	
DATE: <u>3/14/2025</u>	
SEAL	
	
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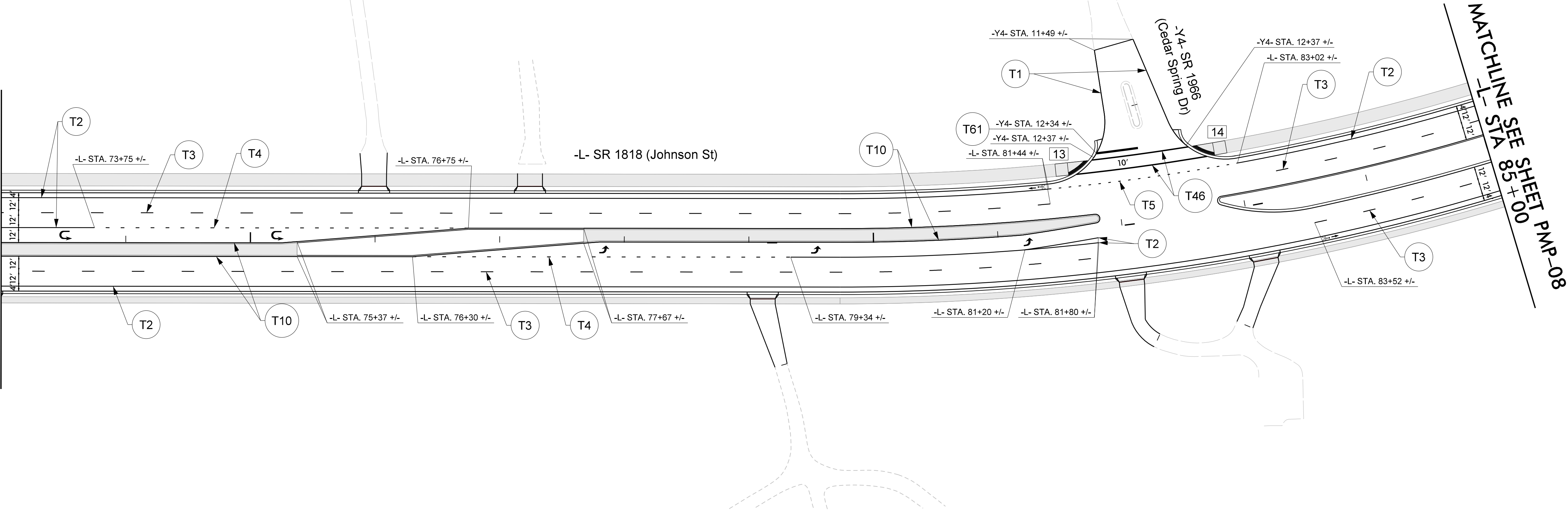


PAVEMENT MARKING DETAIL

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CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)	
13 -L- STA. 81+72, 50' LT (TYPE 1C)	14 -L- STA. 82+72, 50' LT (TYPE 1C)

MATCHLINE SEE SHEET PMP-06
-L- STA 73+00



SYMBOL LEGEND	
	T70 LEFT TURN ARROW
	T77 U-TURN ARROW
	T90 BICYCLE SYMBOL
	T91 BICYCLE STRAIGHT ARROW

PAVEMENT MARKING DETAIL

TIP NO.
U-4758

SHEET NO.
PMP-07

APPROVED:

Signed by: James Stiff
054B0037672A434

DATE: 3/14/2025

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
056276
ENGINEER
JAMES T. STIFF

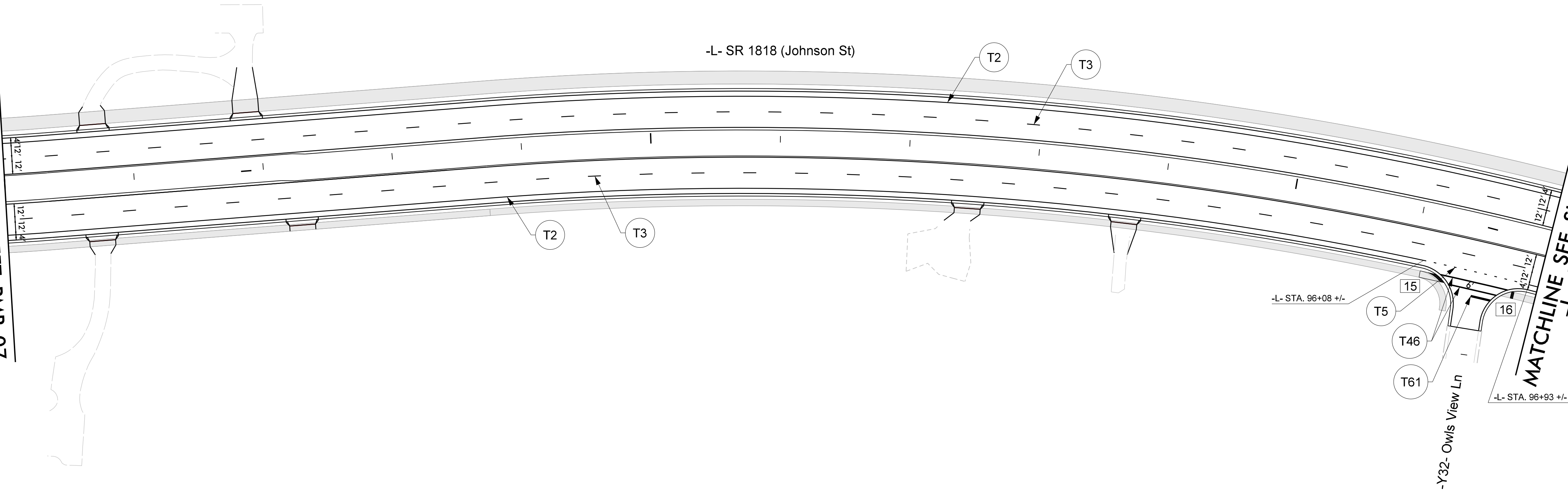
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UNLESS ALL SIGNATURES COMPLETED

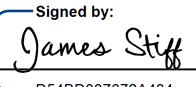
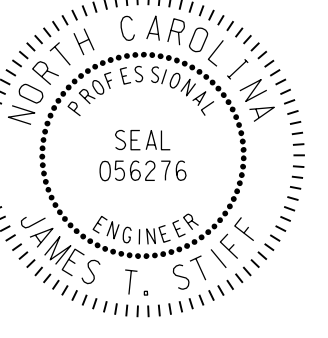
AtkinsRéalis
1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
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28-FEB-2025 14:47
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STW/4385
AT LUS51003

CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)	
15 -L- STA. 96+24, 46' RT (TYPE 1D)	16 -L- STA. 96+77, 46' RT (TYPE 1 MODIFIED)

MATCHLINE SEE SHEET PMP-07
-L- STA 85 + 00



TIP NO.	SHEET NO.
U-4758	PMP-08
APPROVED:  054B0037672A434	
DATE: 3/14/2025	
SEAL 	
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1616 EAST MILLBROOK ROAD, SUITE 160
RALEIGH, NORTH CAROLINA 27609
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PAVEMENT MARKING DETAIL

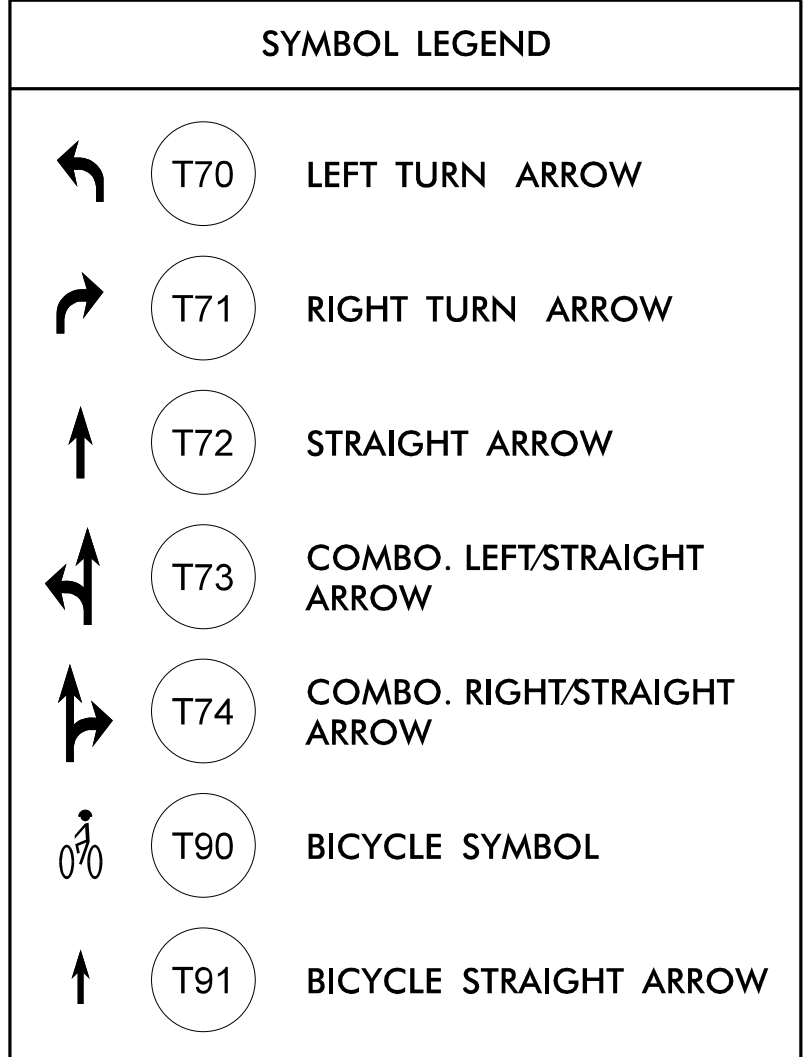
CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)	
[17] -L- STA. 103+61, 42' RT (TYPE 3)	[20] -L- STA. 104+60, 62' LT (TYPE 1C)
[18] -L- STA. 103+45, 44' LT (TYPE 3 MODIFIED)	[21] -L- STA. 103+84, 46' RT (TYPE 1 MODIFIED)
[19] -L- STA. 103+67, 62' LT (TYPE 1C)	[22] -L- STA. 104+90, 46' RT (TYPE 1 MODIFIED)



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PAVEMENT MARKING DETAIL

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RALEIGH, NORTH CAROLINA 27609
(919) 876-6888 NCBES #F-0326



PAVEMENT MARKING DETAIL

CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)	
32 -L- STA. 132+55, 47' LT (TYPE 1 MODIFIED)	33 -L- STA. 133+00, 47' LT (TYPE 1 MODIFIED)

130



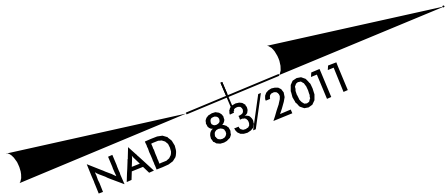
Technical drawing of a bridge deck cross-section. The deck is 12' wide with 2' overhangs on each side. The drawing includes labels for 'MATCHLINE SEE SHEET PMP-22' and 'STA 14+00'. The deck is supported by a central pier and two side piers. The drawing also shows the deck's profile and the pier's structure.

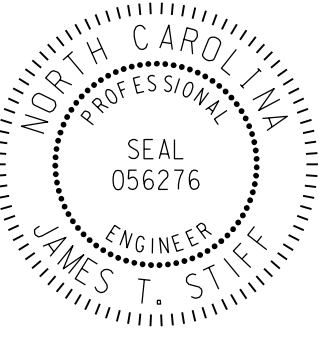
-Y26- Old Kendale Rd

PAVEMENT MARKING DETAIL

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(919) 876-6888 NCBEES #F-0326

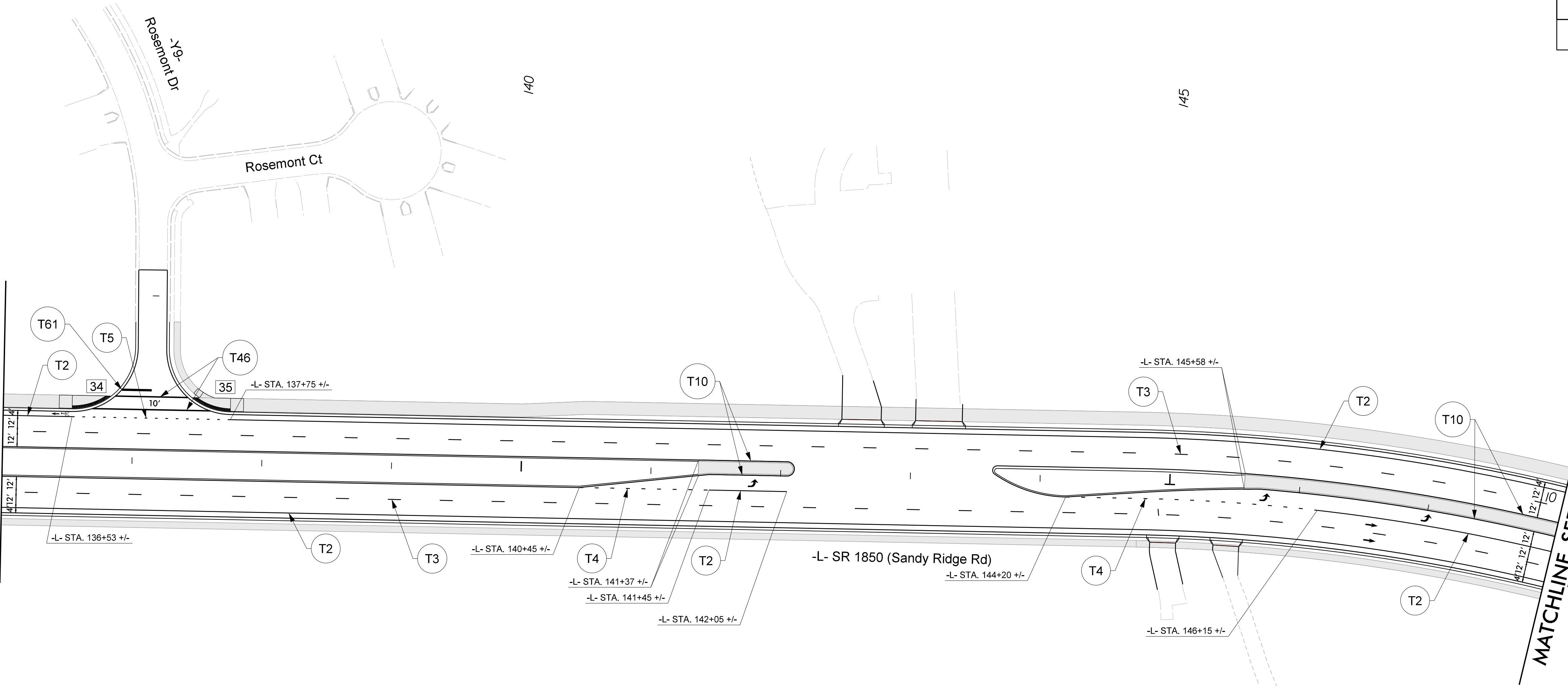
CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)	
34 -L- STA. 136+75, 47' LT (TYPE 1C)	35 -L- STA. 137+55, 47' LT (TYPE 1D)



TIP NO.	SHEET NO.
U-4758	PMP-12
APPROVED:  0548D0037672A434	
DATE: 3/14/2025	
SEAL	
	
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MATCHLINE SEE SHEET PMP-11
-L- STA 136+00

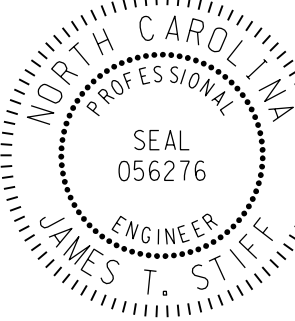


MATCHLINE SEE SHEET PMP-13
-L- STA 148+00

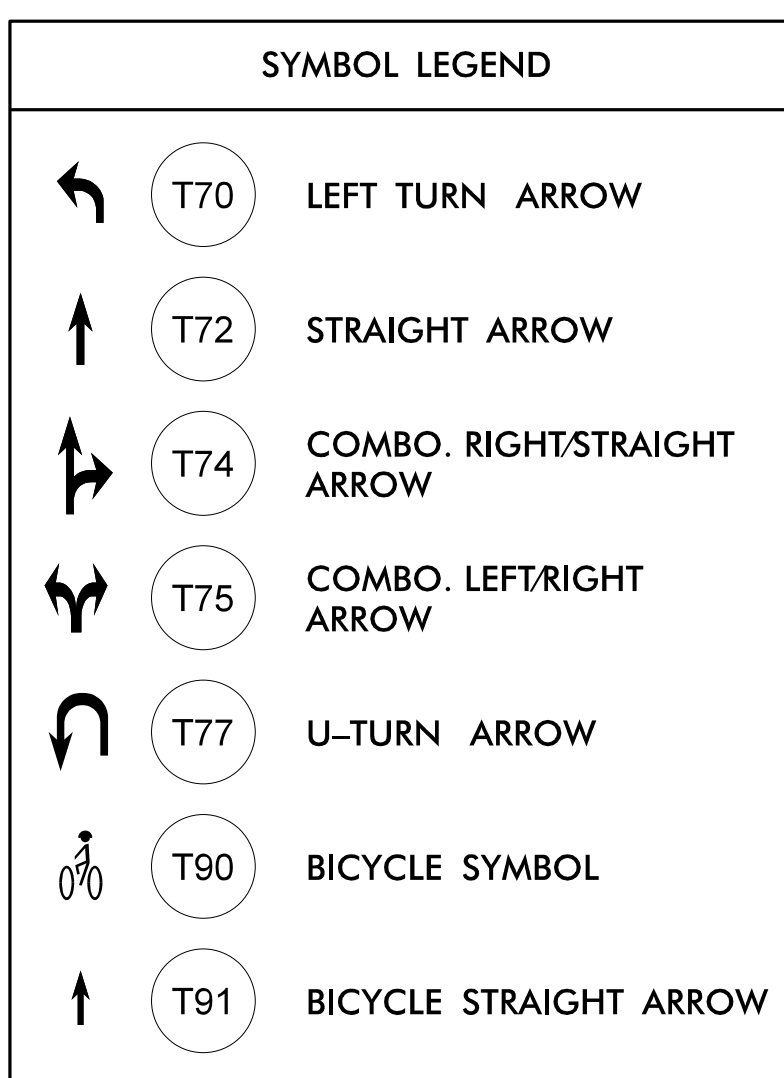
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	T70 LEFT TURN ARROW
	T72 STRAIGHT ARROW
	T90 BICYCLE SYMBOL
	T91 BICYCLE STRAIGHT ARROW

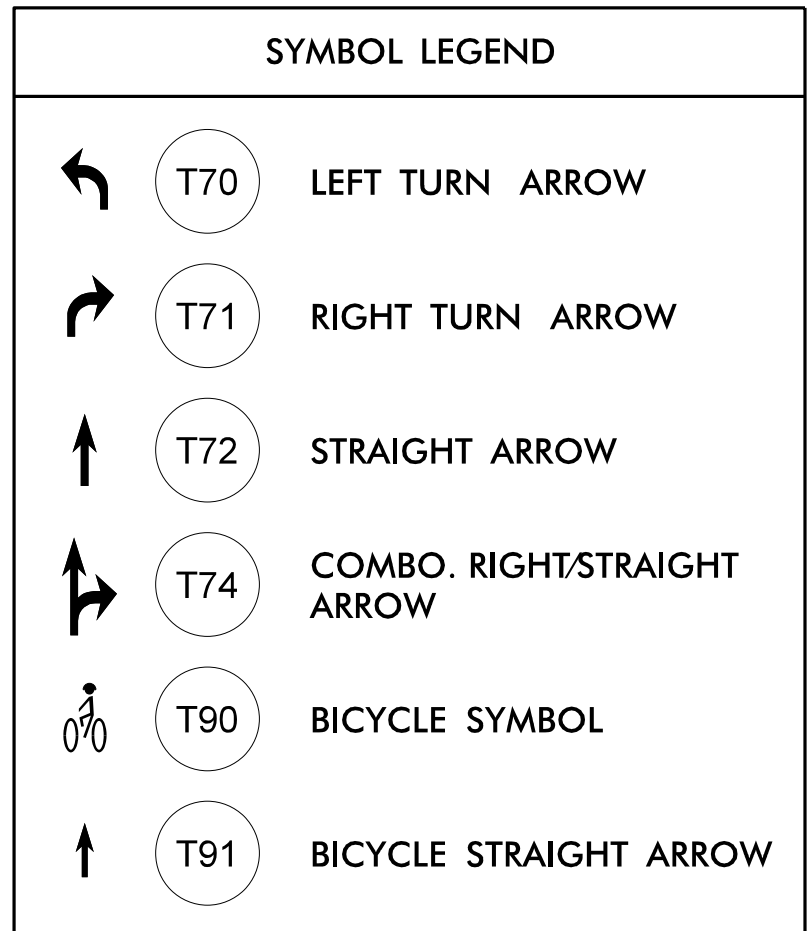
PAVEMENT MARKING DETAIL

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Staff 4365 n1 LUS11063

	TIP NO. U-4758	SHEET NO. PMP-13
Signed by: APPROVED: <u>James Stiff</u> D54BDD037672A43A...		
DATE: <u>3/14/2025</u>		
SEAL 		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

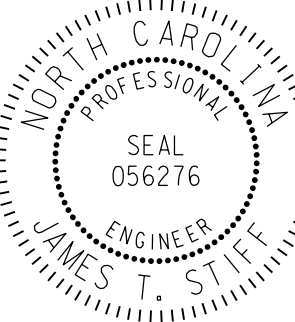
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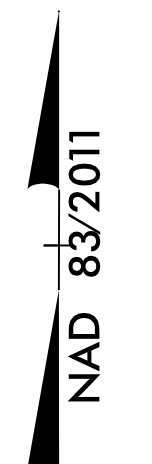


CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)	
<u>39</u> -L- STA. 160+36, 42' RT (TYPE 3)	<u>43</u> -L- STA. 164+30, 50' LT (TYPE 1C)
<u>40</u> -L- STA. 160+36, 48' LT (TYPE 2A MODIFIED)	<u>44</u> -L- STA. 167+42, 46' RT (TYPE 1 MODIFIED)
<u>41</u> -L- STA. 161+41, 50' LT (TYPE 1C)	<u>45</u> -L- STA. 168+50, 46' RT (TYPE 1 MODIFIED)
<u>42</u> -L- STA. 163+92, 50' LT (TYPE 1C)	

PAVEMENT MARKING DETAIL

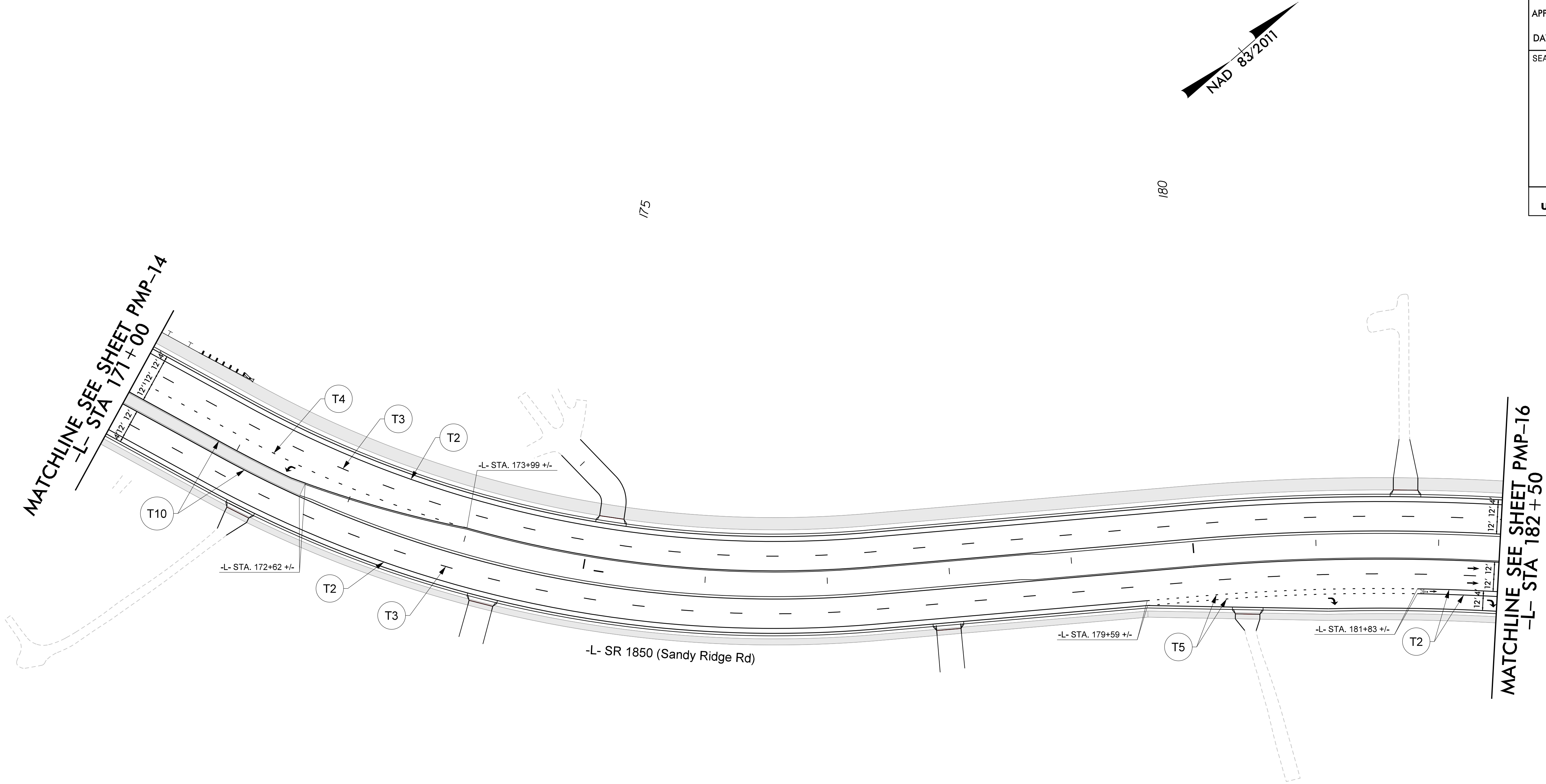
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DATE: <u>3/14/2025</u>		
SEAL		
		
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		

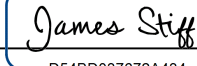
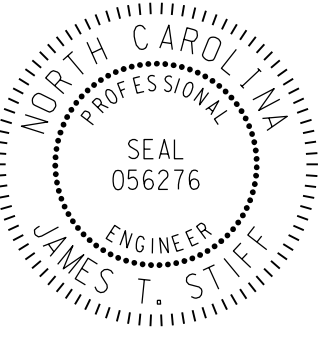
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(919) 876-6888 NCBES #F-0326



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STW/4365 NT LUS/1063

SYMBOL LEGEND		
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	T71	RIGHT TURN ARROW
	T72	STRAIGHT ARROW
	T90	BICYCLE SYMBOL
	T91	BICYCLE STRAIGHT ARROW



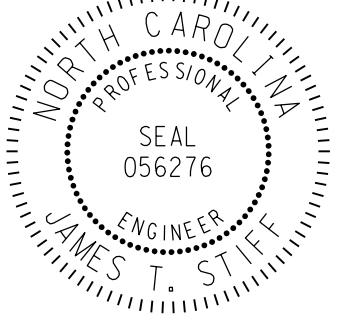
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U-4758	PMP-15
APPROVED:  Signed by: 0548D0037672A434	
DATE: 3/14/2025	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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PAVEMENT MARKING DETAIL

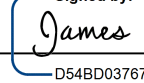
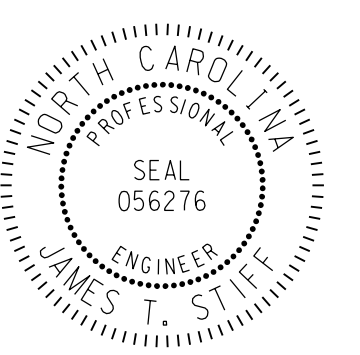
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U-4758	PMP-16
Signed by:	
APPROVED: <u>James Stiff</u> 0548D0376737404...	
DATE: <u>3/14/2025</u>	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



TIP NO.	SHEET NO.
U-4758	PMP-17
Signed by:	
APPROVED: <u>James Stiff</u> 0548D0376737404...	
DATE: <u>3/14/2025</u>	
SEAL	
	
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PAVEMENT MARKING DETAIL

TIP NO. U-4758	SHEET NO. PMP-18
Signed by: 	
APPROVED: _____ D048D03376724434...	
DATE: 3/14/2025	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

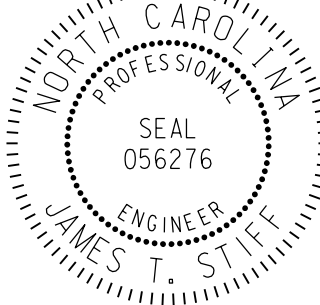
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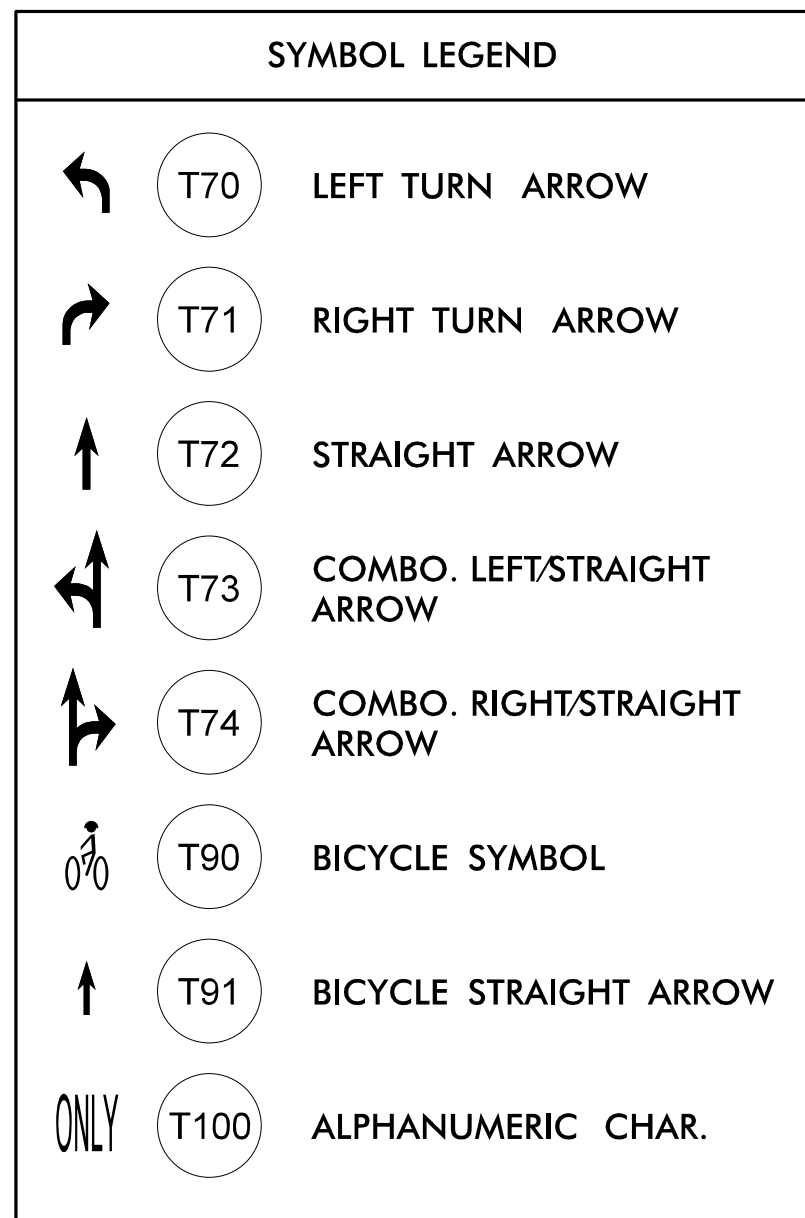


CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB)	
<u>62</u> -L- STA. 216+41, 50' RT (TYPE 1 MODIFIED)	<u>66</u> -L- STA. 224+23, 73' RT (TYPE 3 MODIFIED)
<u>63</u> -L- STA. 217+15, 50' RT (TYPE 1 MODIFIED)	<u>67</u> -L- STA. 224+43, 46' LT (TYPE 2A MODIFIED)
<u>64</u> -L- STA. 223+18, 73' RT (TYPE 2A MODIFIED)	<u>68</u> -L- STA. 226+63, 46' LT (TYPE 1 MODIFIED)
<u>65</u> -L- STA. 223+61, 46' LT (TYPE 2A MODIFIED)	<u>69</u> -L- STA. 227+51, 46' LT (TYPE 1 MODIFIED)

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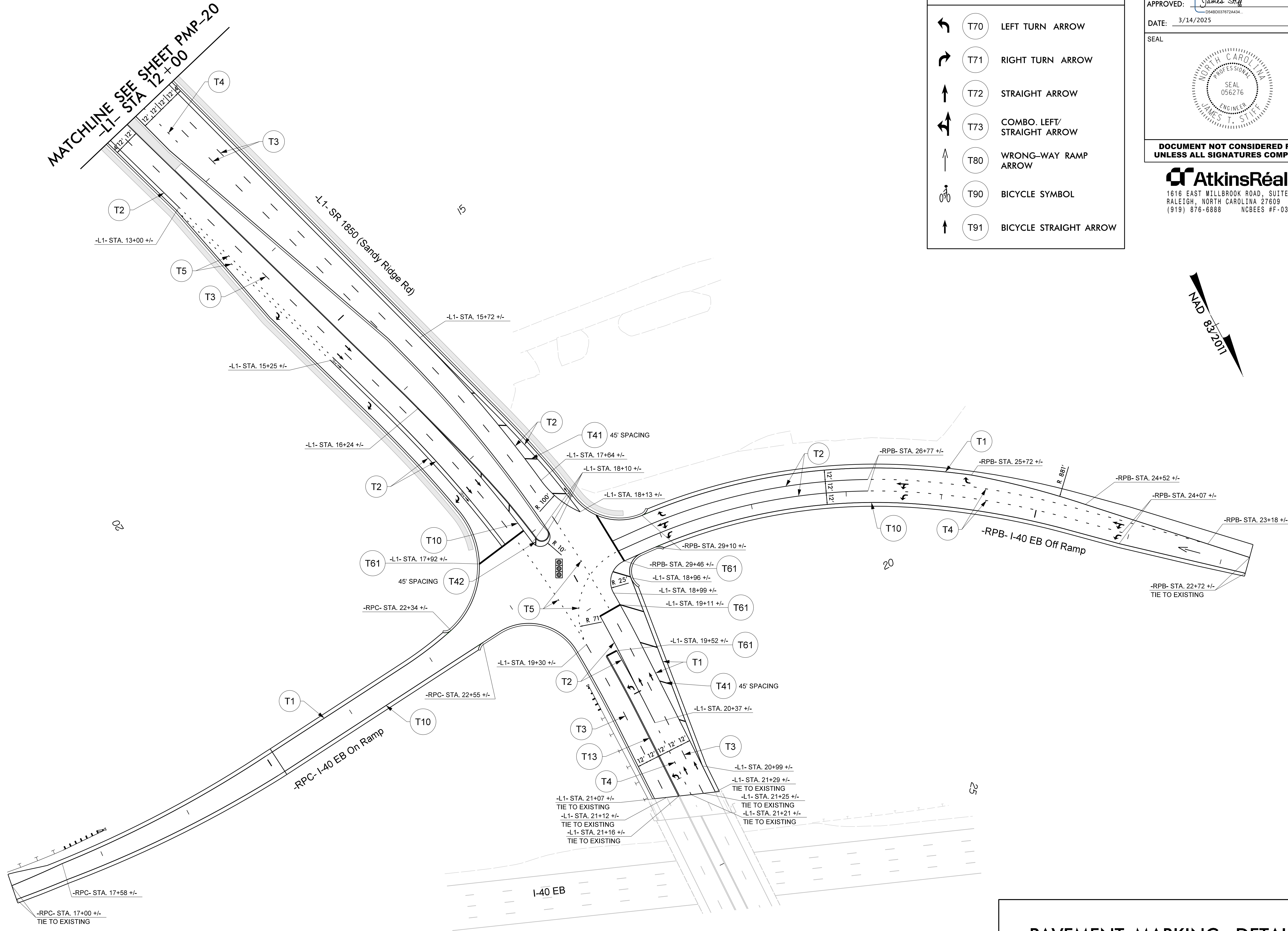


TIP NO.	SHEET NO.
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APPROVED: <u>James Stiff</u> 0548D037673404...	
DATE: <u>3/14/2025</u>	
SEAL	
	
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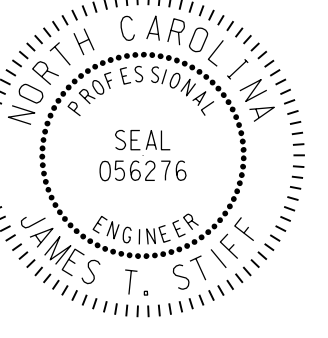


PAVEMENT MARKING DETAIL

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SYMBOL LEGEND		
	T70	LEFT TURN ARROW
	T71	RIGHT TURN ARROW
	T72	STRAIGHT ARROW
	T73	COMBO. LEFT/STRAIGHT ARROW
	T80	WRONG-WAY RAMP ARROW
	T90	BICYCLE SYMBOL
	T91	BICYCLE STRAIGHT ARROW

TIP NO.	SHEET NO.
U-4758	PMP-21
APPROVED:  0548D037672A434	
DATE: 3/14/2025	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

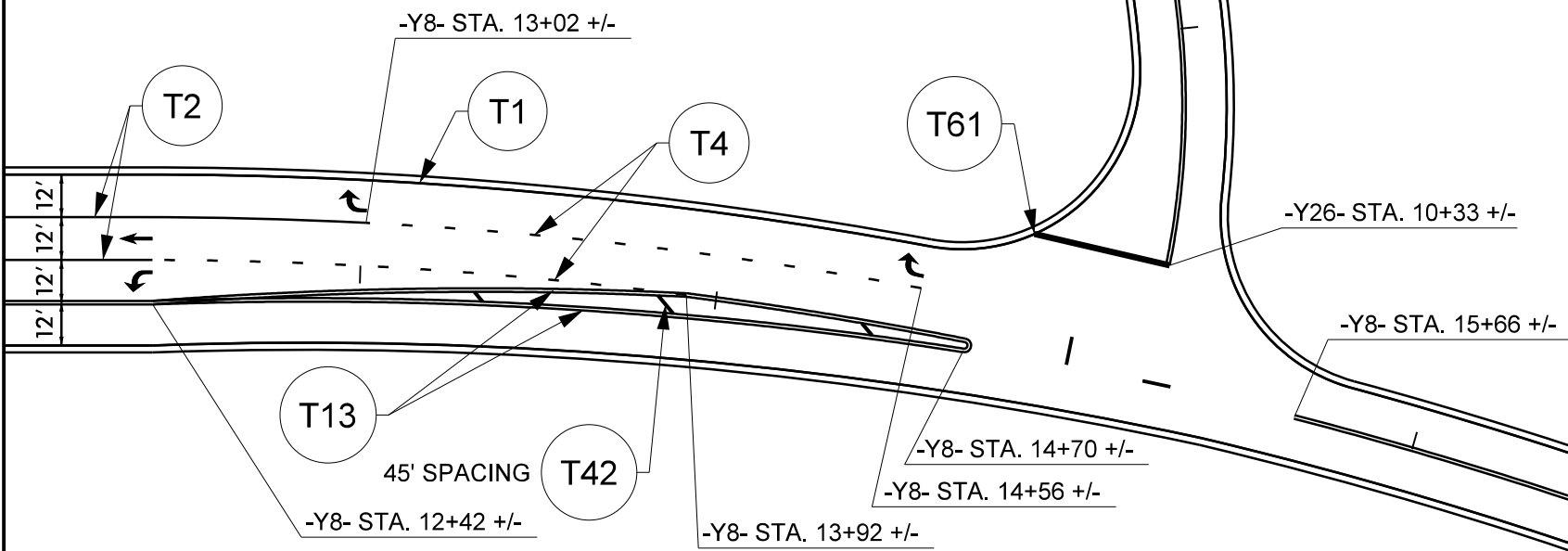
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PAVEMENT MARKING DETAIL

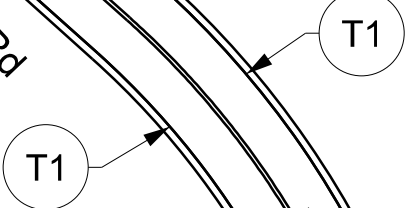
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STIFF 4365

SYMBOL LEGEND		
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	T71	RIGHT TURN ARROW
	T72	STRAIGHT ARROW

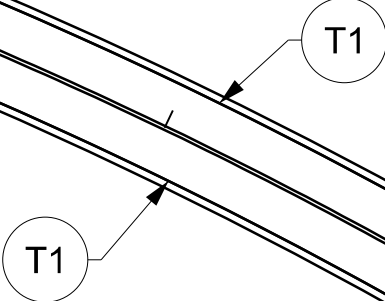
MATCHLINE SEE SHEET PMP-10
-Y8- STA 12+00



MATCHLINE SEE SHEET PMP-11
-Y26- STA 14+00



15

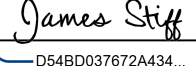
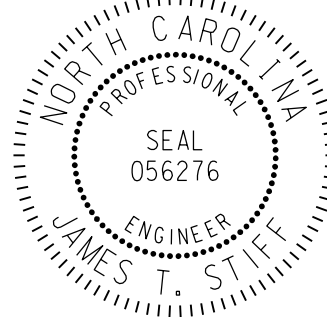


20

-Y8- STA. 14+56 +/-
TIE TO EXISTING

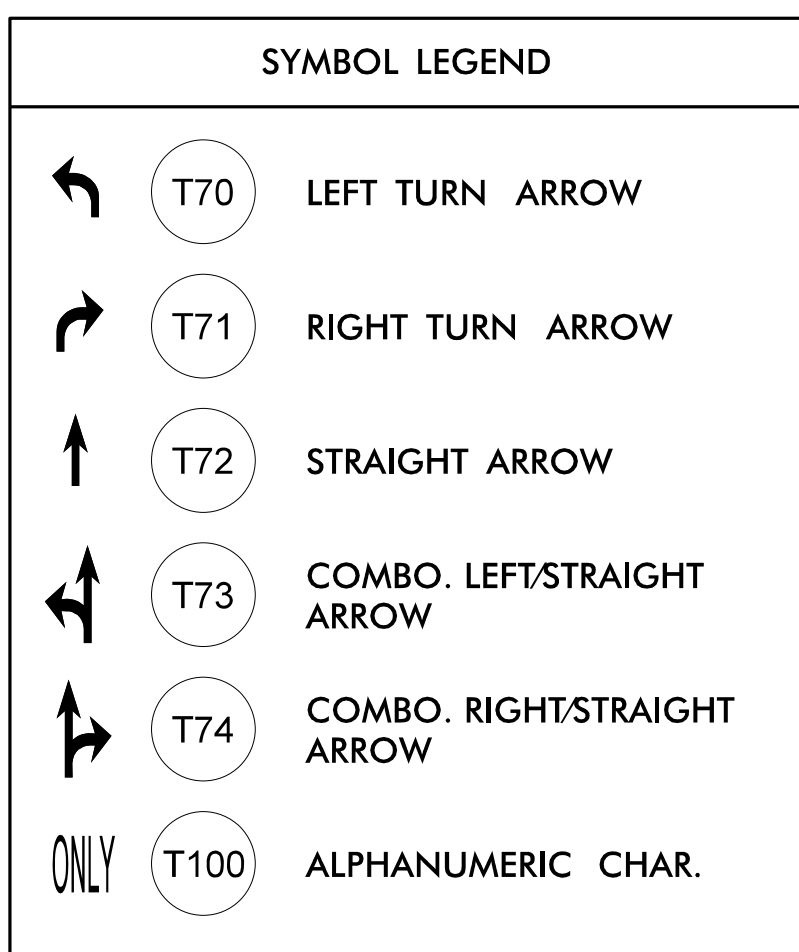
-Y8- SR 1834 (Kendale Rd)



TIP NO.	SHEET NO.
U-4758	PMP-22
APPROVED:  054B0037672A434	
DATE: 3/14/2025	
SEAL	
	
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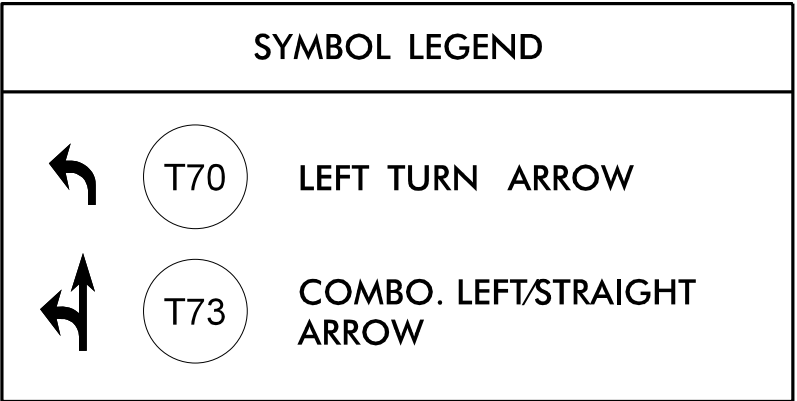
PAVEMENT MARKING DETAIL



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