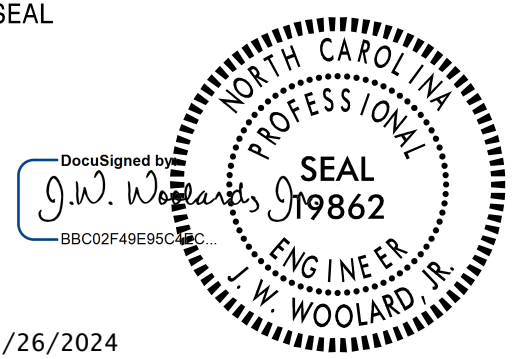



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING PLAN
WAKE COUNTY**

**LOCATION: NEW HOPE CHURCH ROAD GRADE SEPARATION OVER
CSX RAIL LINE(CROSSING NO. 630607N AT MILEPOST S 152.32)**

**TYPE OF WORK: GRADING, STRUCTURE, PAVING, WIDENING, DRAINAGE,
RETAINING WALLS, AND SIGNALS**

STATE PROJECT REFERENCE NO.	SHEET NO.
P-5715	PMP-1
APPROVED: _____	
DATE: _____	
SEAL	
	
7/26/2024	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - 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 & OFFSETS
1205.02	PAVEMENT MARKINGS - 2 LANE & MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS & WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.16	PAVEMENT MARKINGS - BICYCLE FACILITIES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING (SEE SHEET PMP-1A FOR SHEET 2 OF 3)
1251.01	RAISED PAVEMENT MARKERS - PERMANENT & TEMPORARY
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING
1262.01	GUARDRAIL END DELINEATION

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM
V2	WHITE SOLID LANE LINE	(4", 30 MIL) POLYUREA
V3	10 FT WHITE SKIP	(4", 30 MIL) POLYUREA
V13	YELLOW DOUBLE CENTER	(4", 30 MIL) POLYUREA
T1	WHITE EDGELINE	(4", 90 MIL) THERMOPLASTIC
T2	WHITE SOLID LANE LINE	(4", 90 MIL) THERMOPLASTIC
T3	10 FT WHITE SKIP	(4", 90 MIL) THERMOPLASTIC
T4	3 FT-9 FT/SP WHITE MINISKIP	(4", 90 MIL) THERMOPLASTIC
T5	2 FT-6 FT/SP WHITE MINISKIP	(4", 90 MIL) THERMOPLASTIC
T10	YELLOW EDGELINE	(4", 90 MIL) THERMOPLASTIC
T11	YELLOW SINGLE CENTER	(4", 90 MIL) THERMOPLASTIC
T12	10 FT YELLOW SKIP	(4", 90 MIL) THERMOPLASTIC
T13	YELLOW DOUBLE CENTER	(4", 90 MIL) THERMOPLASTIC
T40	WHITE GORELINE	(8", 90 MIL) THERMOPLASTIC
T42	YELLOW DIAGONAL	(8", 90 MIL) THERMOPLASTIC
T46	WHITE CROSSWALK LINE	(8", 90 MIL) THERMOPLASTIC
T61	WHITE STOPBAR	(24", 90 MIL) THERMOPLASTIC
T62	WHITE CROSSWALK LINE	(24", 90 MIL) THERMOPLASTIC
T70	LEFT TURN ARROW	(90 MIL) THERMOPLASTIC
T71	RIGHT TURN ARROW	(90 MIL) THERMOPLASTIC
T72	STRAIGHT ARROW	(90 MIL) THERMOPLASTIC
T74	COMBO STRAIGHT/RIGHT	(90 MIL) THERMOPLASTIC
T90	BICYCLE SYMBOL, HEATED-IN-PLACE	(90 MIL) THERMOPLASTIC
T91	BICYCLE STRAIGHT ARROW, HEATED-IN-PLACE	(90 MIL) THERMOPLASTIC
T93	BICYCLE CHARACTER, HEATED-IN-PLACE	(120 MIL) THERMOPLASTIC
T94	SHARROW, HEATED-IN-PLACE	(90 MIL) THERMOPLASTIC
T103	24" YEILD LINE TRIANGLE	(90 MIL) THERMOPLASTIC

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
ALL ROADS	THERMOPLASTIC	SNOWPLOWABLE
BRIDGE DECKS	POLYUREA	PERMANENT RAISED

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
 D) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED 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.
 F) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING POLYUREA PAVEMENT MARKING MATERIAL.
 G) ALL BICYCLE LANE SYMBOLS SHALL BE HEATED-IN-PLACE THERMOPLASTIC. SYMBOLS SHALL BE PAID FOR USING THE HEATED-IN-PLACE PAY ITEM.
 H) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

PLAN PREPARED BY:

JAY WOOLARD, P.E. SENIOR TRANSPORTATION ENGINEER
ANDREW N. GOOD TRANSPORTATION DESIGNER



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 License No. F-3672

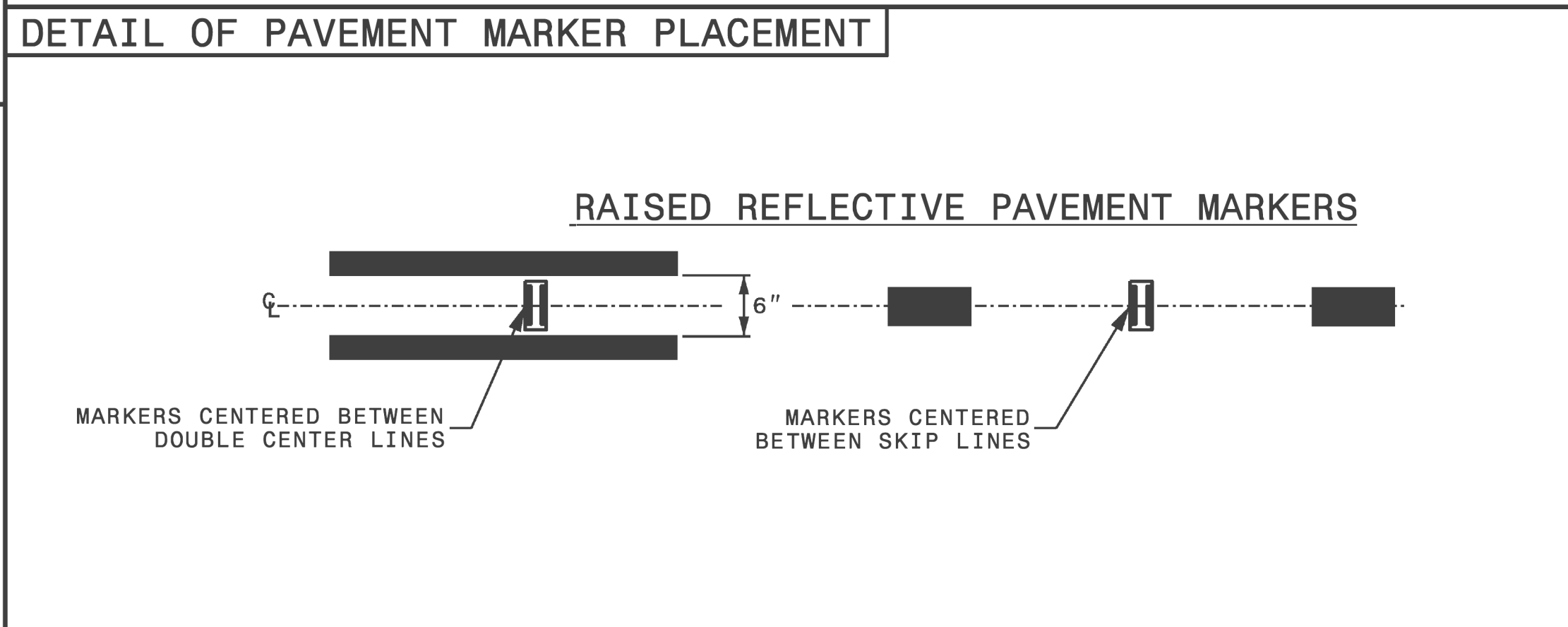
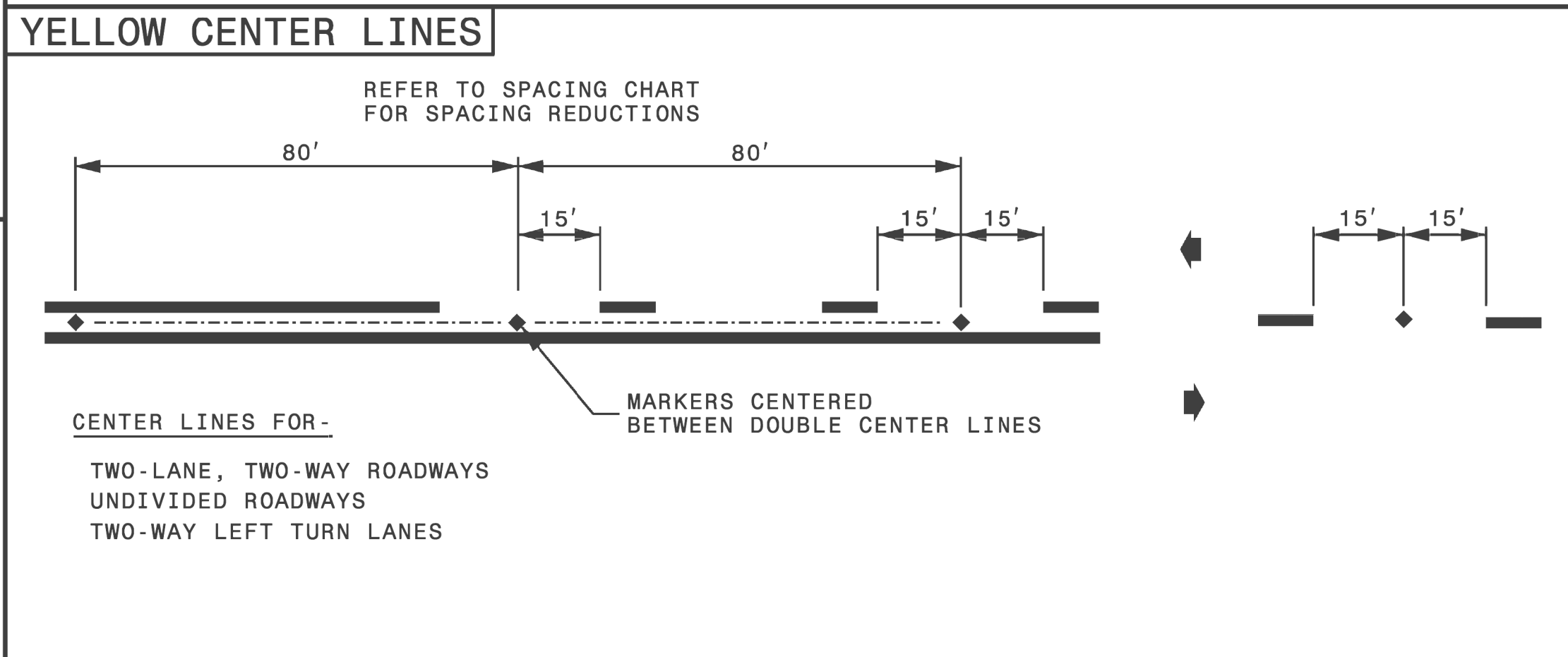
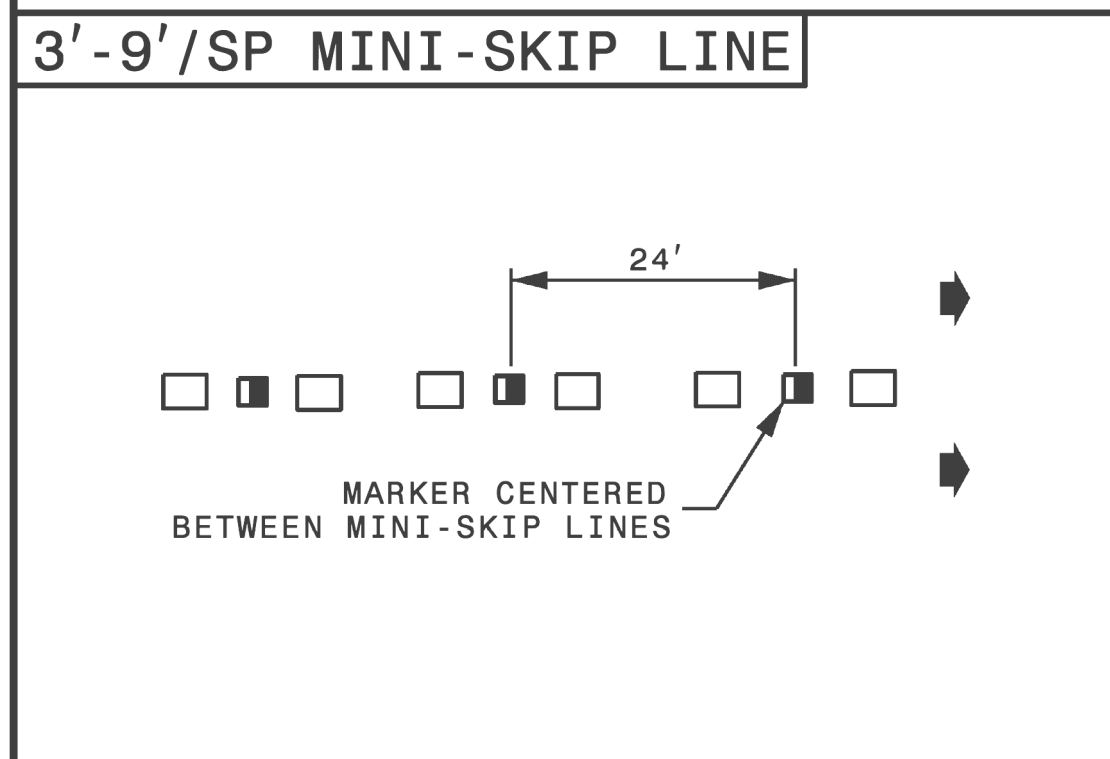
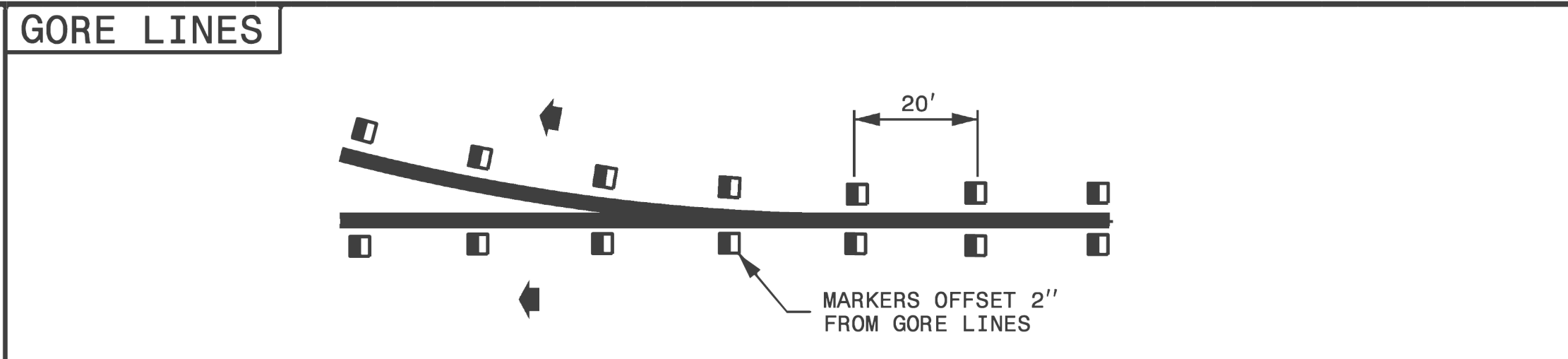
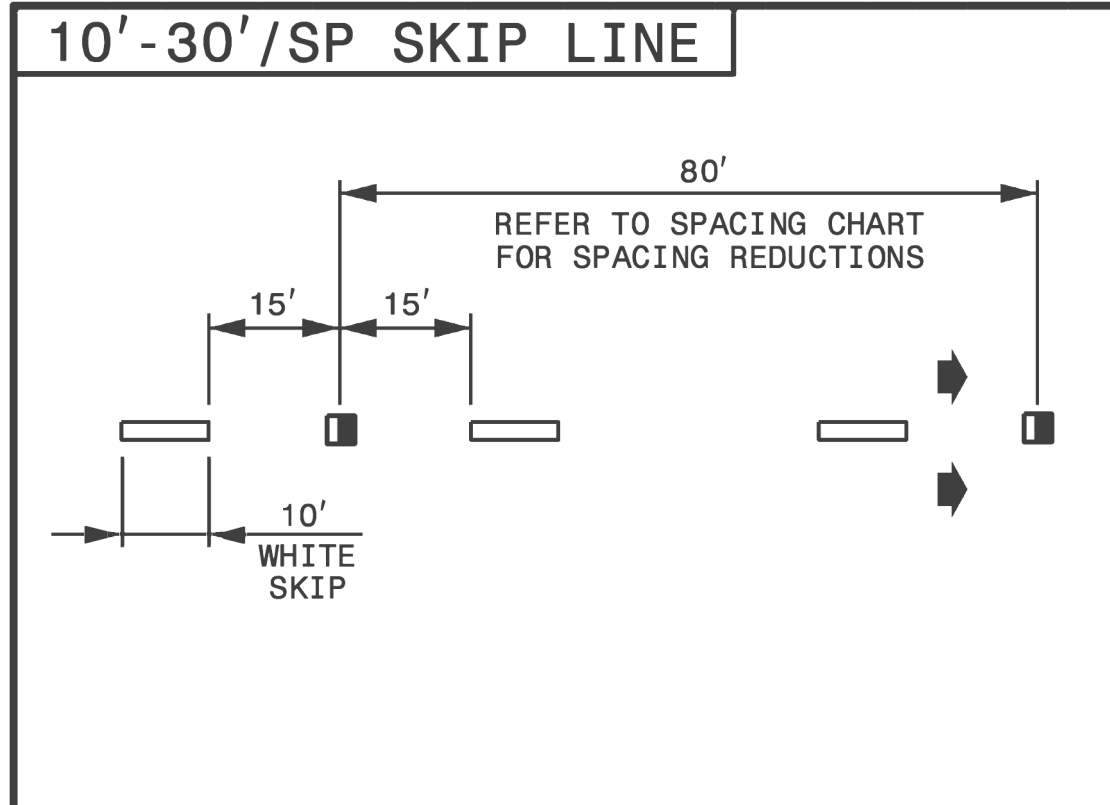
INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-1A	REVISED ROADWAY STANDARD DRAWING
PMP-1B-1D	SNOWPLOWABLE DELINEATION DETAILS
PMP-2-4	PAVEMENT MARKING DETAIL

7/26/2024
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PROJECT: P-5715

PROJECT REFERENCE NO.	SHEET NO.



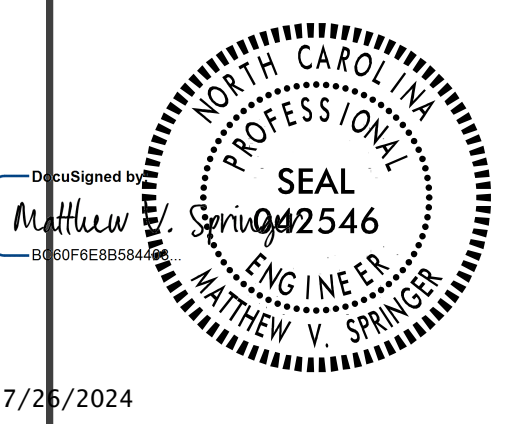
LEGEND

	CRYSTAL/RED PAVEMENT MARKER
	YELLOW/YELLOW PAVEMENT MARKER
	DIRECTION OF TRAFFIC FLOW

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



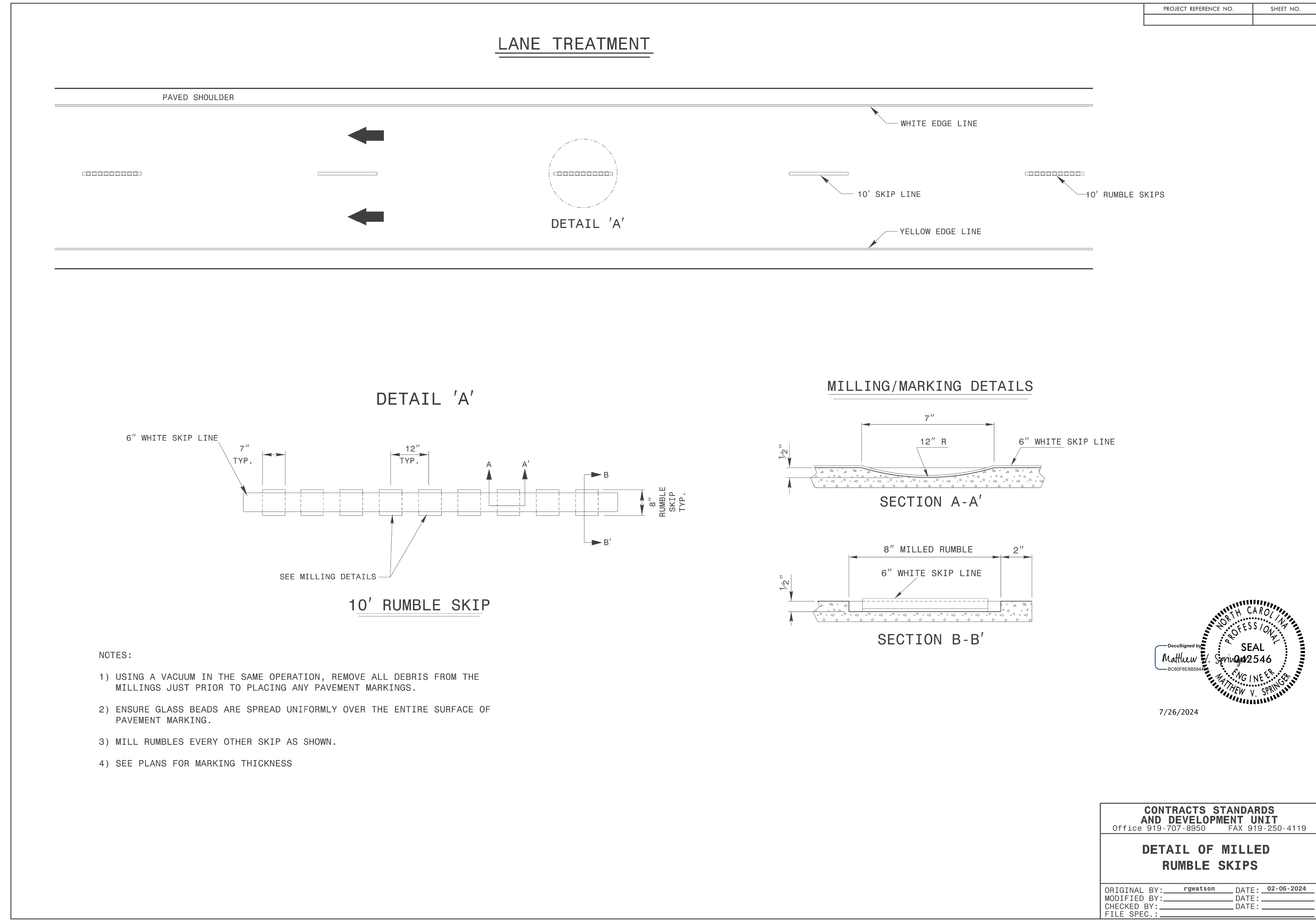
**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-8950 FAX 919-250-4119

SEE TITLE BLOCK

ORIGINAL BY: M.V. SPRINGER DATE: 2-15-24
 MODIFIED BY: DATE: _____
 CHECKED BY: DATE: _____
 FILE SPEC: _____

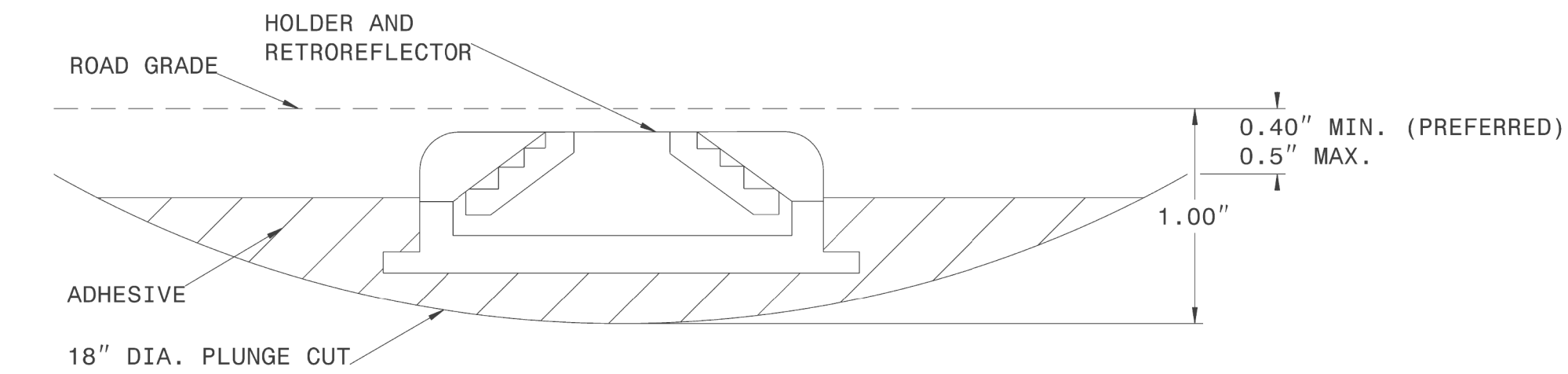
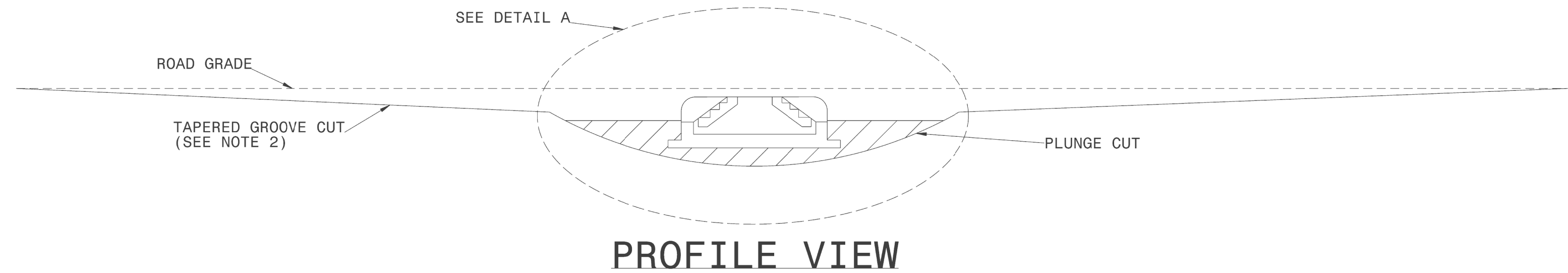
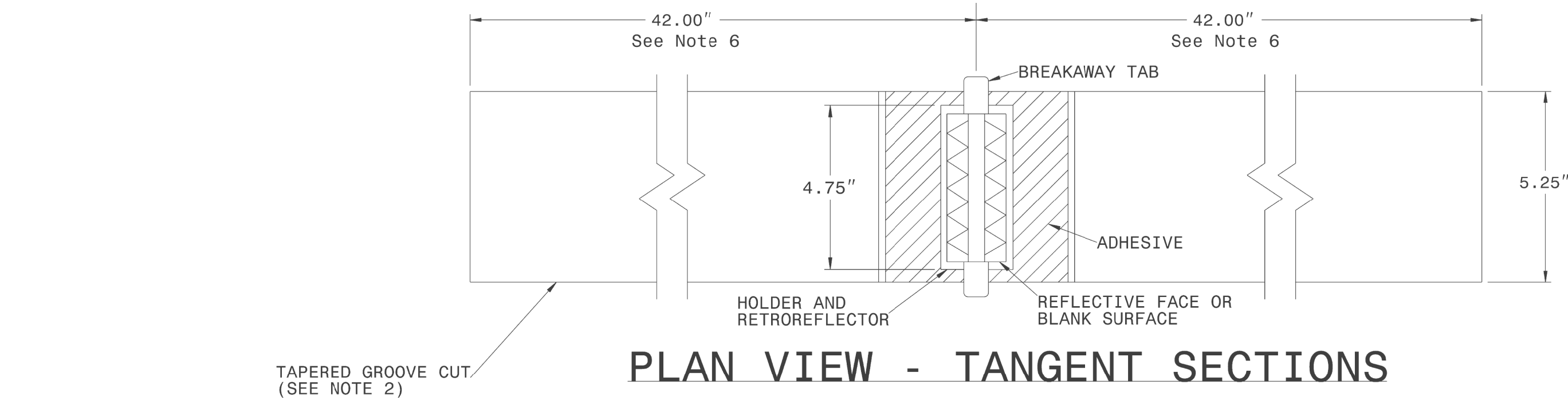
REVISED ROADWAY
STANDARD DRAWING

PROJECT REFERENCE NO.	SHEET NO.

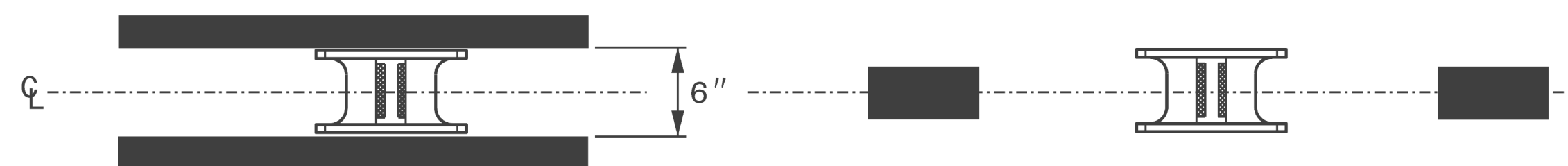


DETAIL OF MILLED RUMBLE SKIPS

PROJECT REFERENCE NO.	SHEET NO.



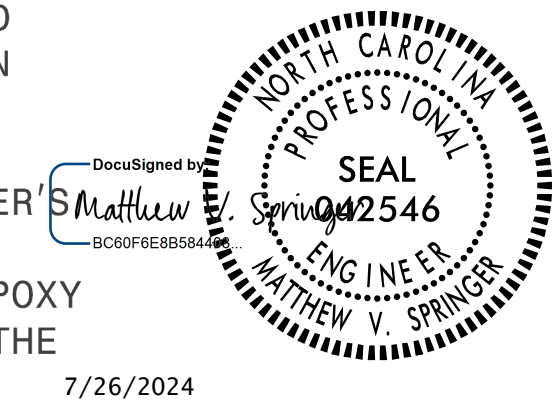
DETAIL A



MARKER SPACING

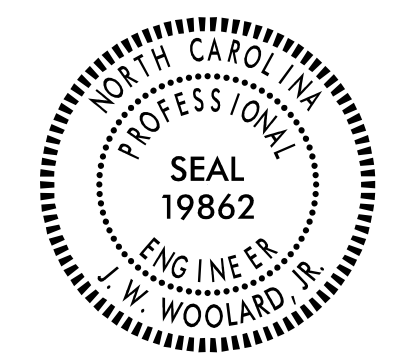

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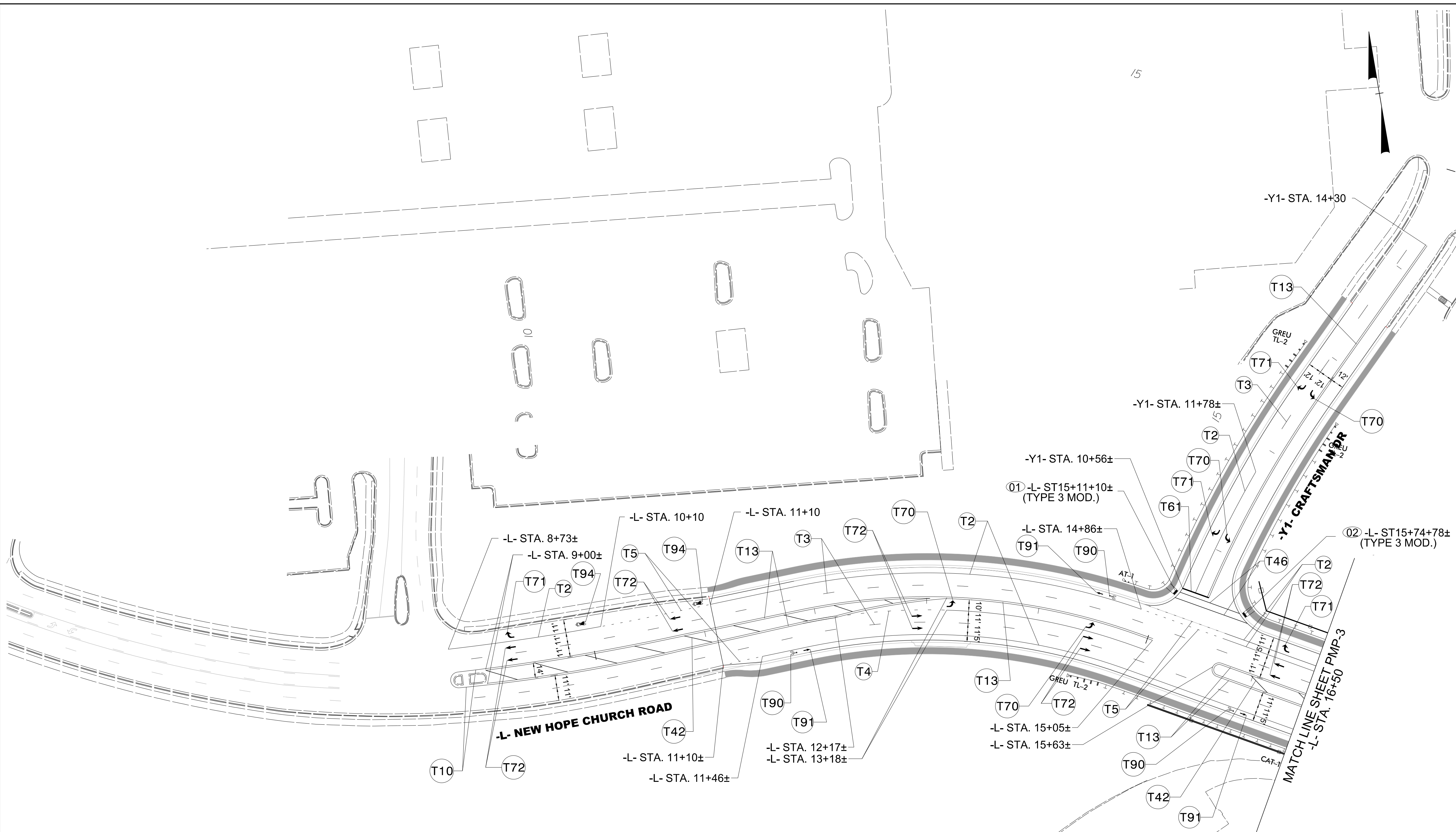
1. ALL GROOVE EDGES SHALL BE AT LEAST 2 INCHES FROM ANY SEAM OR PAVEMENT JOINT
2. GROOVE CUTS MAY BE TAPERED OR BEVELED. TAPERED CUTS SHALL START AT ROAD LEVEL ON EACH END AND TAPER AT A FIXED RATE AS SHOWN ON THE PROFILE VIEW. BEVELED GROOVE CUTS SHALL BE 0.5" MAXIMUM DEPTH (0.4" PREFERRED), AND SHALL BE 0.4" MINIMUM DEPTH AT BOTH ENDS OF THE PLUNGE CUT.
3. GROOVE AND PLUNGE CUT SHALL BE CLEAN AND DRY PRIOR TO PLACEMENT OF ADHESIVE.
4. 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.
5. 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 RETROREFLECTOR.
6. 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.: _____	

DETAIL OF INLAID CRADLE MARKER

STATE PROJECT REFERENCE NO. P-5715	SHEET NO. PMP-2
APPROVED: <i>J. W. Woolard, Jr.</i> DATE: 7/25/2024	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	

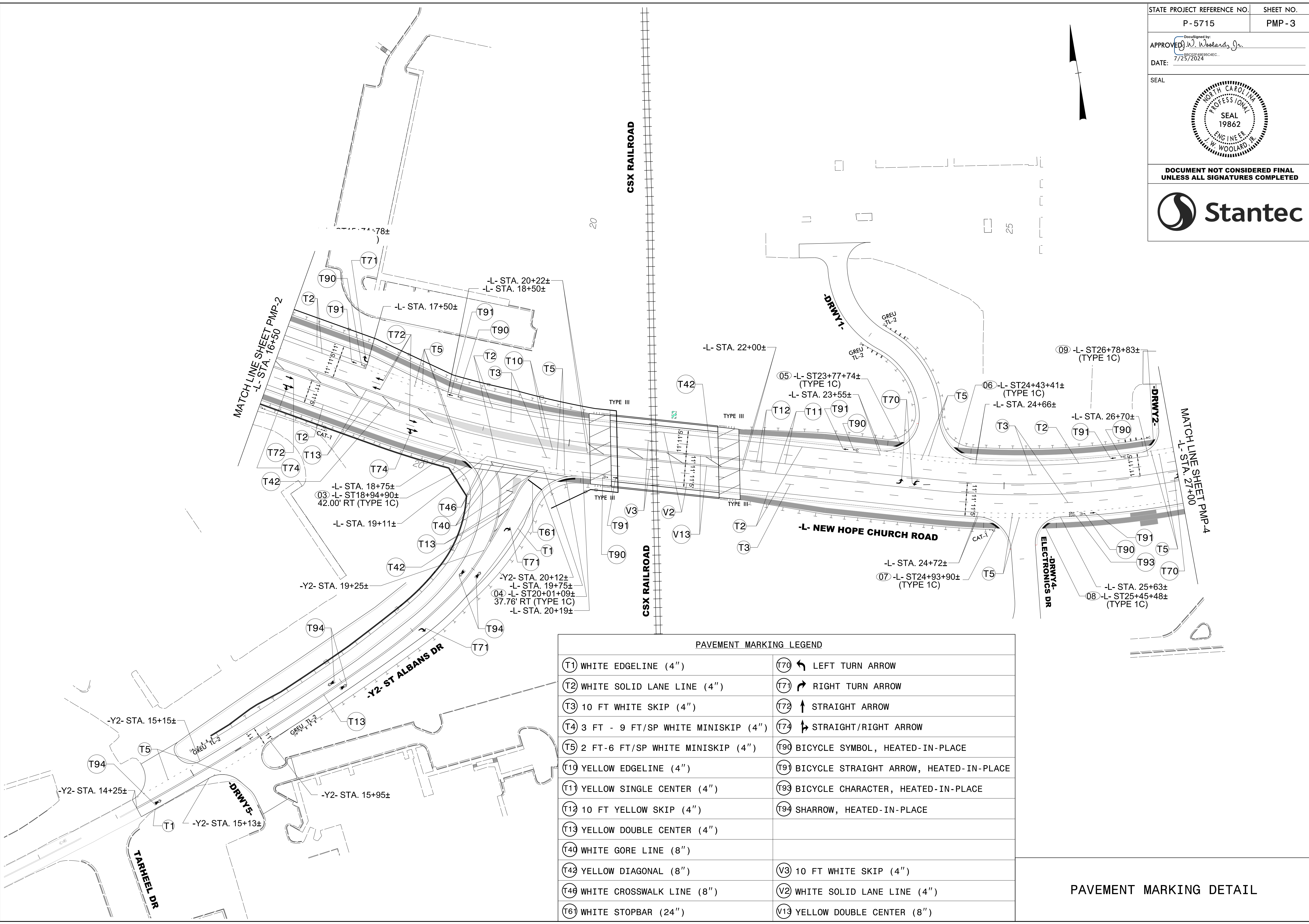
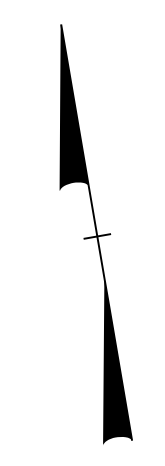


PAVEMENT MARKING LEGEND	
(T2) WHITE SOLID LANE LINE (4")	(T70) LEFT TURN ARROW
(T3) 10 FT WHITE SKIP (4")	(T71) RIGHT TURN ARROW
(T4) 3 FT - 9 FT/SP WHITE MINISKIP (4")	(T72) STRAIGHT ARROW
(T5) 2 FT-6 FT/SP WHITE MINISKIP (4")	(T90) BICYCLE SYMBOL, HEATED-IN-PLACE
(T10) YELLOW EDGELINE (4")	(T91) BICYCLE STRAIGHT ARROW, HEATED-IN-PLACE
(T13) YELLOW DOUBLE CENTER (4")	(T94) SHARROW, HEATED-IN-PLACE
(T42) YELLOW DIAGONAL (8")	
(T46) WHITE CROSSWALK LINE (8")	
(T61) WHITE STOPBAR (24")	

PAVEMENT MARKING DETAIL

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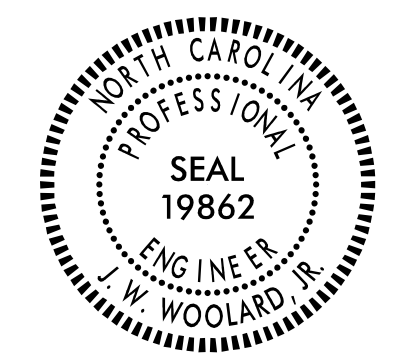

STATE PROJECT REFERENCE NO. P-5715	SHEET NO. PMP-3
APPROVED: <i>J.W. Woolard, Jr.</i> DATE: 7/25/2024	
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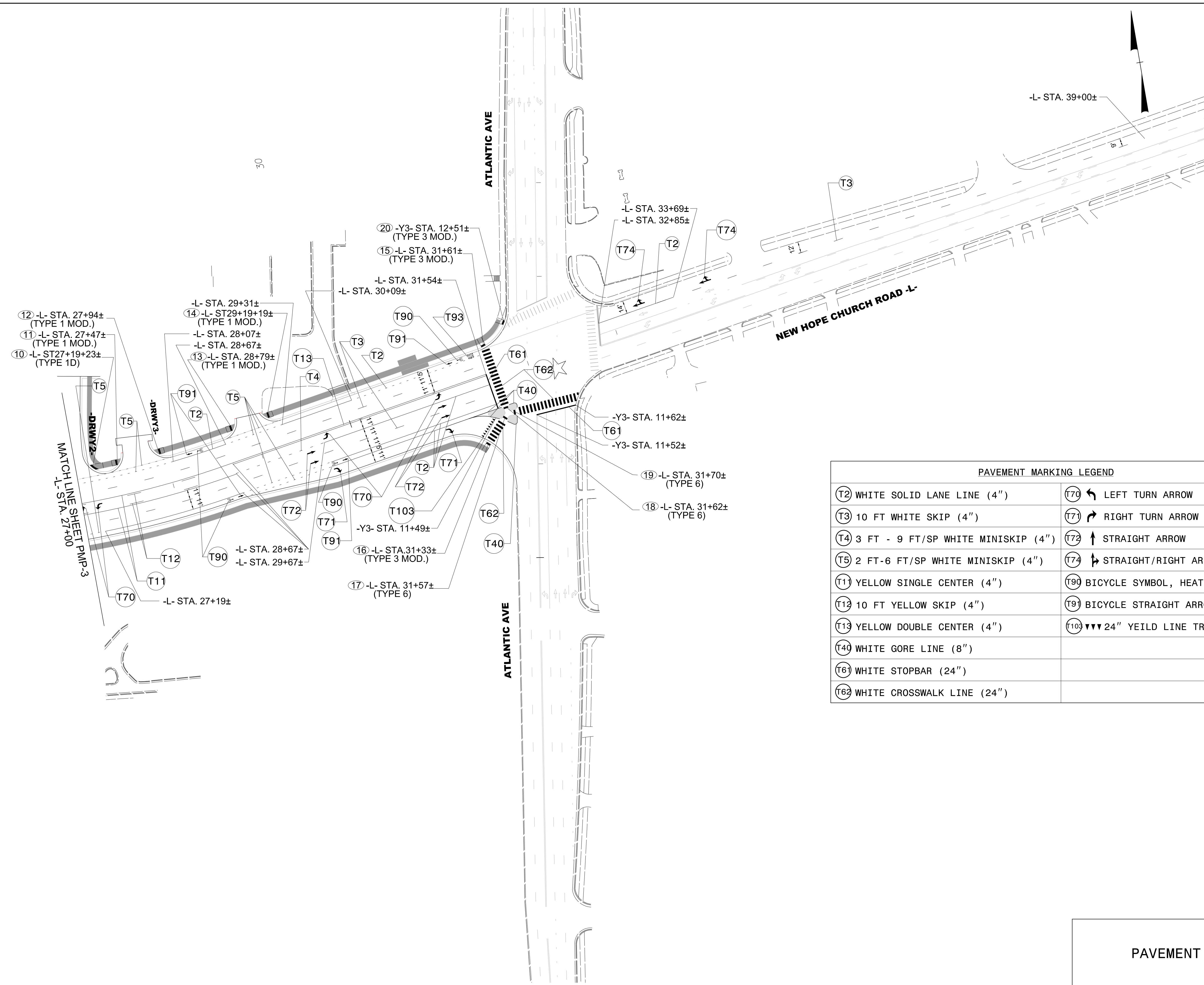


PAVEMENT MARKING LEGEND	
(T1) WHITE EDGELINE (4")	(T70) LEFT TURN ARROW
(T2) WHITE SOLID LANE LINE (4")	(T71) RIGHT TURN ARROW
(T3) 10 FT WHITE SKIP (4")	(T72) STRAIGHT ARROW
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(T10) YELLOW EDGELINE (4")	(T91) BICYCLE STRAIGHT ARROW, HEATED-IN-PLACE
(T11) YELLOW SINGLE CENTER (4")	(T93) BICYCLE CHARACTER, HEATED-IN-PLACE
(T12) 10 FT YELLOW SKIP (4")	(T94) SHARROW, HEATED-IN-PLACE
(T13) YELLOW DOUBLE CENTER (4")	
(T40) WHITE GORE LINE (8")	
(T42) YELLOW DIAGONAL (8")	(V3) 10 FT WHITE SKIP (4")
(T46) WHITE CROSSWALK LINE (8")	(V2) WHITE SOLID LANE LINE (4")
(T61) WHITE STOPBAR (24")	(V13) YELLOW DOUBLE CENTER (8")

7/25/2024
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PAVEMENT MARKING DETAIL

STATE PROJECT REFERENCE NO.	SHEET NO.
P-5715	PMP-4
APPROVED: <i>J.W. Woolard, Jr.</i> DATE: 7/25/2024	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	



PAVEMENT MARKING LEGEND	
(T2) WHITE SOLID LANE LINE (4")	(T70) LEFT TURN ARROW
(T3) 10 FT WHITE SKIP (4")	(T71) RIGHT TURN ARROW
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(T11) YELLOW SINGLE CENTER (4")	(T90) BICYCLE SYMBOL, HEATED-IN-PLACE
(T12) 10 FT YELLOW SKIP (4")	(T91) BICYCLE STRAIGHT ARROW, HEATED-IN-PLACE
(T13) YELLOW DOUBLE CENTER (4")	(T103) 24" YEILD LINE TRIANGLE
(T40) WHITE GORE LINE (8")	
(T61) WHITE STOPBAR (24")	
(T62) WHITE CROSSWALK LINE (24")	

PAVEMENT MARKING DETAIL

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