

2/11/2025
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CONTRACT: C204764
T.I.P.: B-5985B

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
ROBESON COUNTY

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET
PMP-1A-1D	REVISED ROADWAY STANDARD DRAWINGS & SPECIAL DETAILS
PMP-2	PAVEMENT MARKING SCHEDULE & CURB RAMP LOCATIONS/TYPES
PMP-3	PAVEMENT MARKING DETAIL

ROADWAY STANDARD DRAWING

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 AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTILANE ROADWAYS
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.07	PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
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

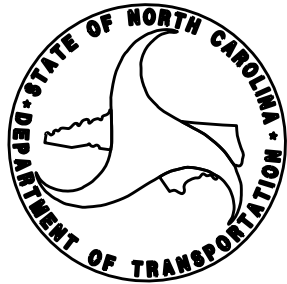
NOTE: SEE ROADWAY STANDARD DRAWING #848.06 FOR INFORMATION RELATED TO CURB RAMP TYPES AND DESIGN

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:
- | | | |
|------------------|----------------------|----------------------------|
| Roadway Surfaces | Thermoplastic | Non-Cast Iron Snowplowable |
| Bridge Surfaces | Cold Applied Plastic | NONE |
- 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) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- F) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING PAVEMENT MARKING MATERIAL.
- G) 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.
- H) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF COLD APPLIED PLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS ON ASPHALT OR CONCRETE ROADWAYS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE COLD APPLIED PAY ITEM.
- I) TYPE III COLD APPLIED PLASTIC MAY BE USED IN LIEU OF TYPE II COLD APPLIED PLASTIC. IF TYPE III COLD APPLIED PLASTIC IS USED, IT SHALL BE PAID FOR USING THE TYPE II COLD APPLIED PLASTIC PAY ITEM.
- J) SEE ROADWAY PLANS FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

PLAN SUBMITTED TO:

Mitch Eaton, P.E. Signing & Delineation Regional Engineer
Andrew Scott Signing & Delineation Design Engineer



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License No. F-0672

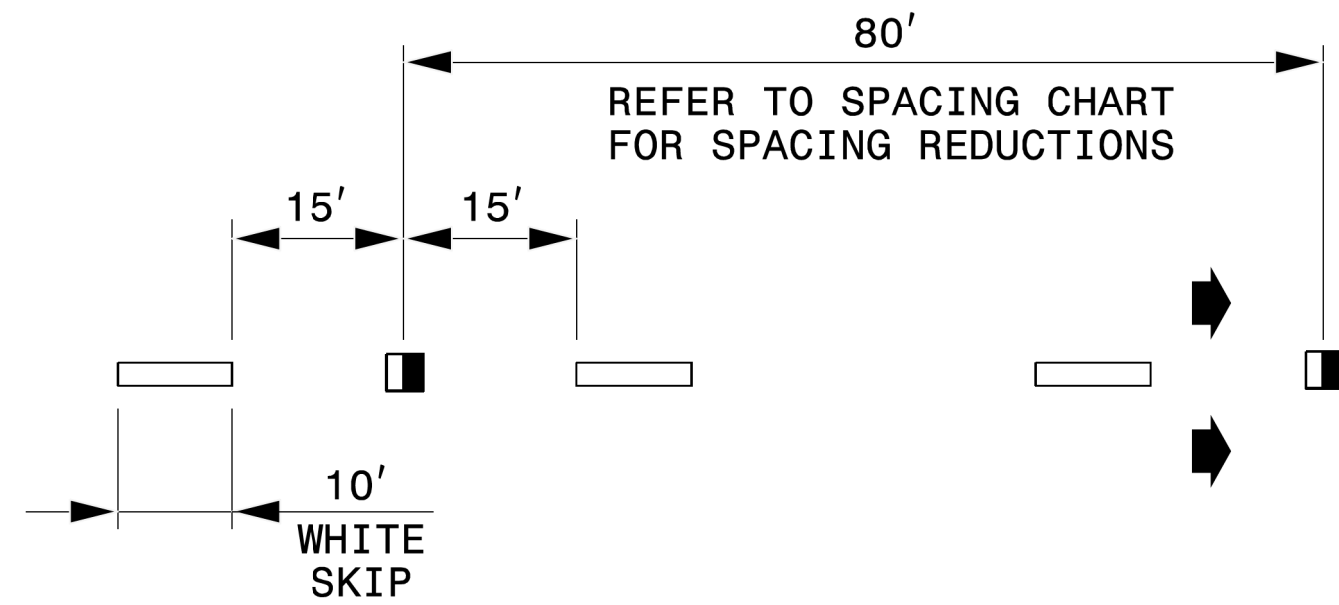
PLAN PREPARED BY: Stantec Consulting Services, Inc.

Jay Woolard, PE Senior Transportation Engineer
Regina Muncey, PE Senior Transportation Engineer
James Hambright Senior Transportation Technician

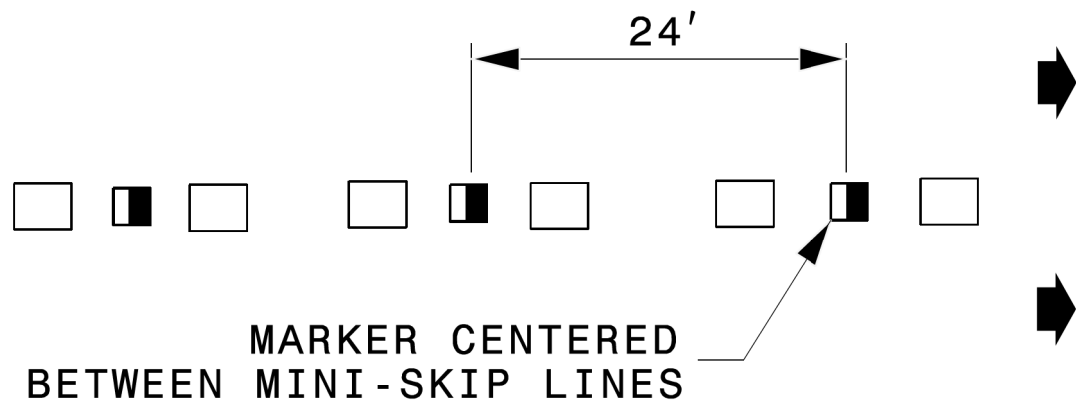


TIP NO. B-5985B	SHEET NO. PMP - 1
APPROVED: <u>Regina M. Muncey</u> C7FE518923454FA...	
DATE: <u>2/11/2025</u>	
SEAL 	
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10'-30'/SP SKIP LINE



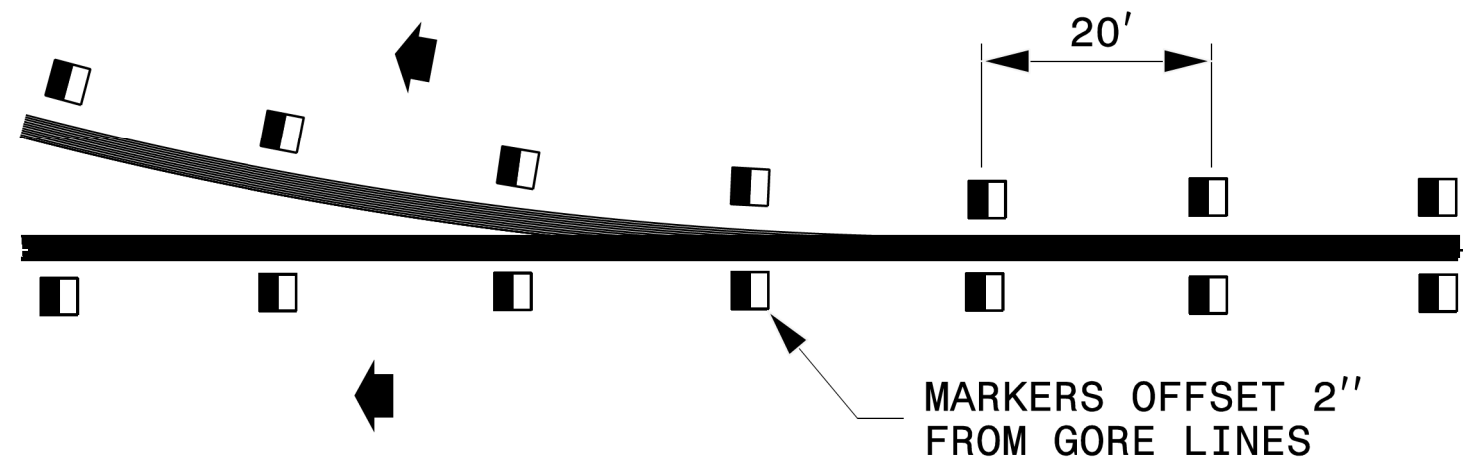
3'-9'/SP MINI-SKIP LINE



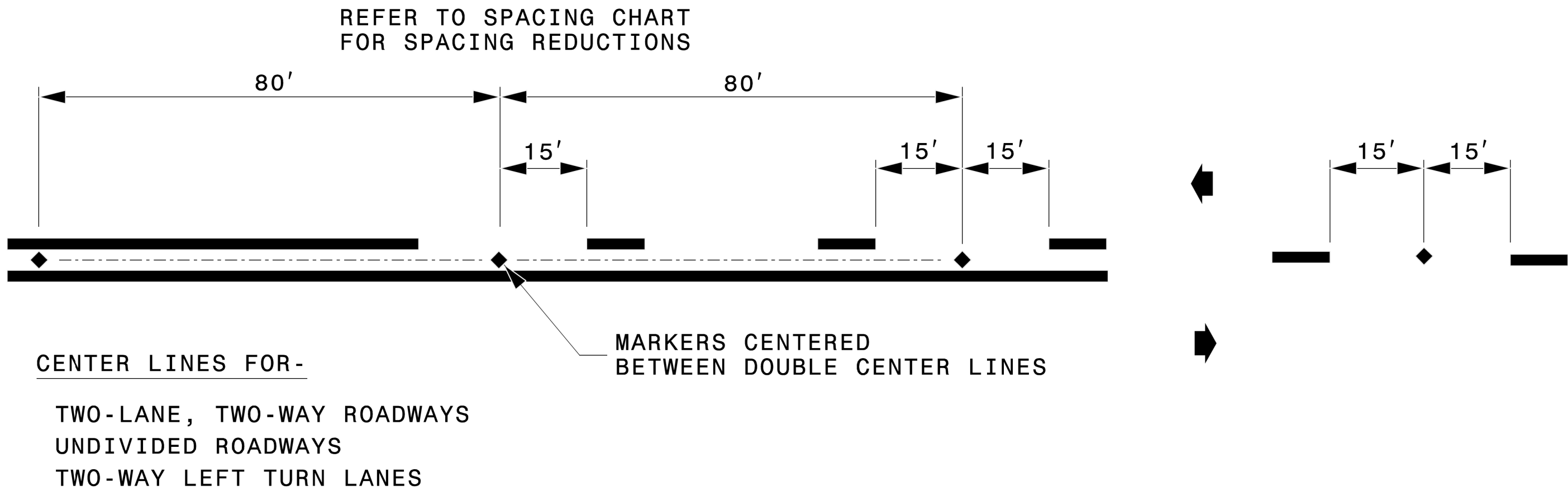
LEGEND

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

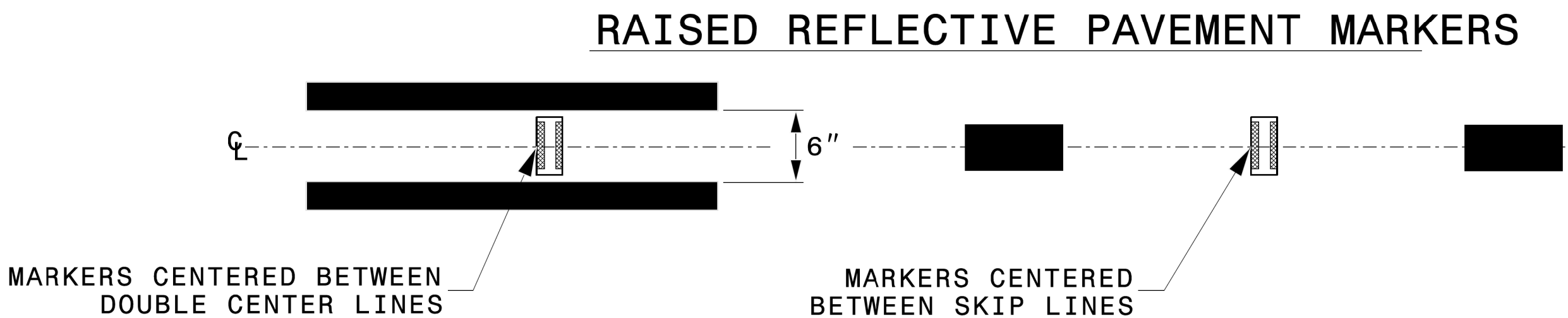
GORE LINES



YELLOW CENTER LINES



DETAIL OF PAVEMENT MARKER PLACEMENT



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

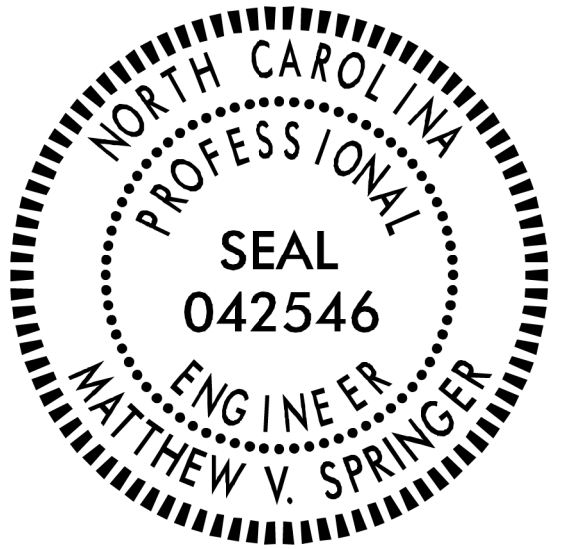
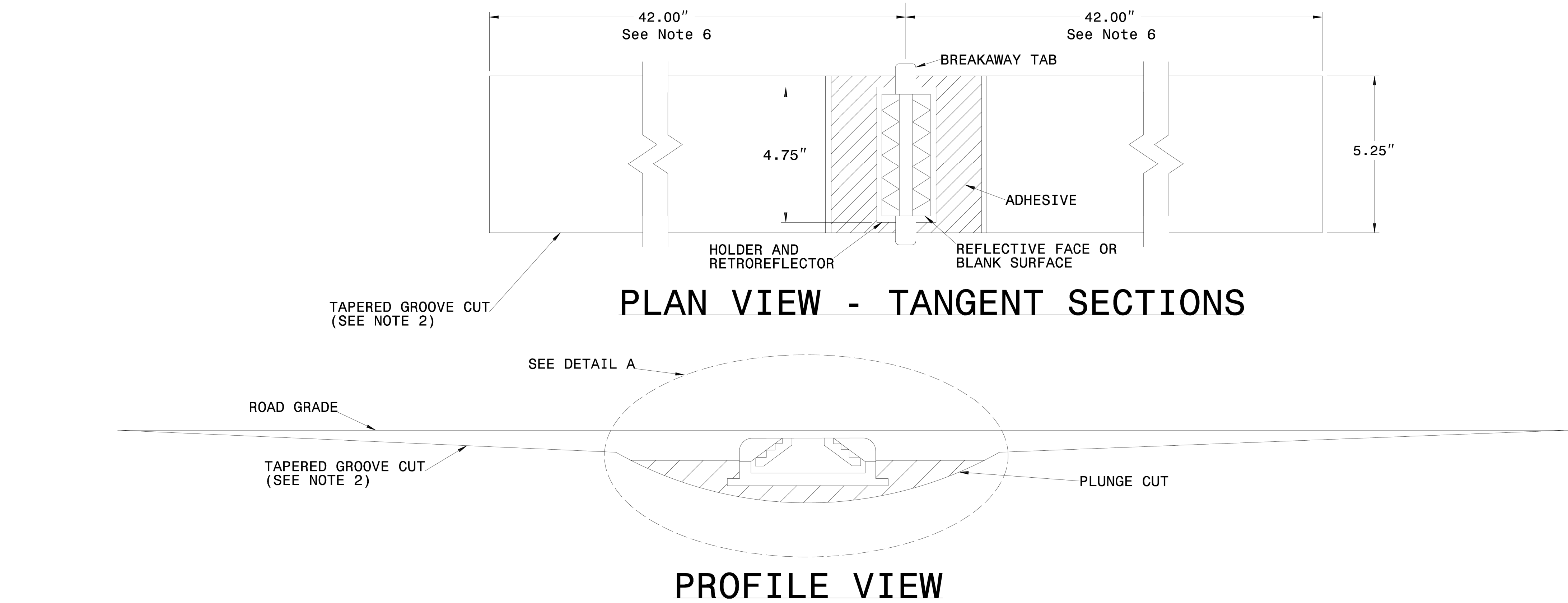


Signed by:
Matthew V. Springer
BC060F0EB8B84403
2/11/2025

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.:

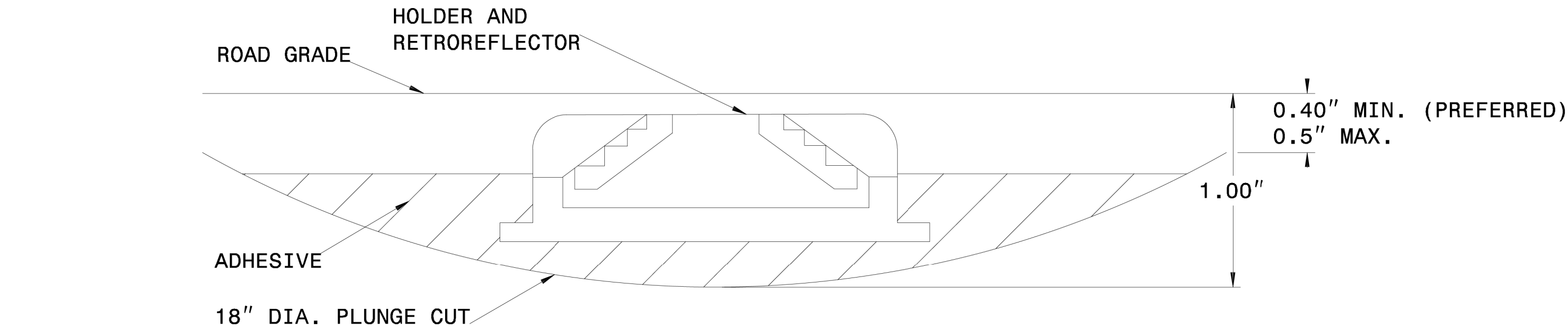


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Matthew V. Springer
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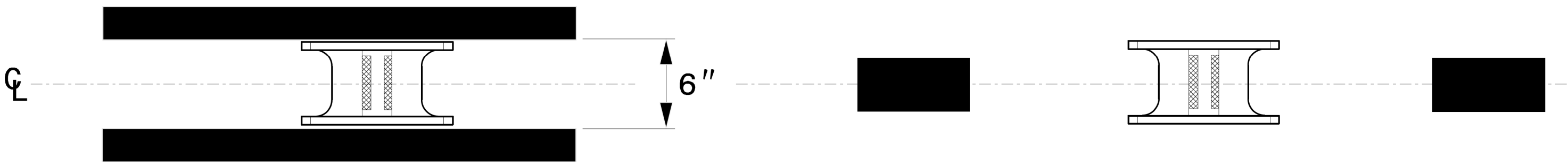
2/11/2025

NOTES:

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 RETROREFELCTOR.
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.



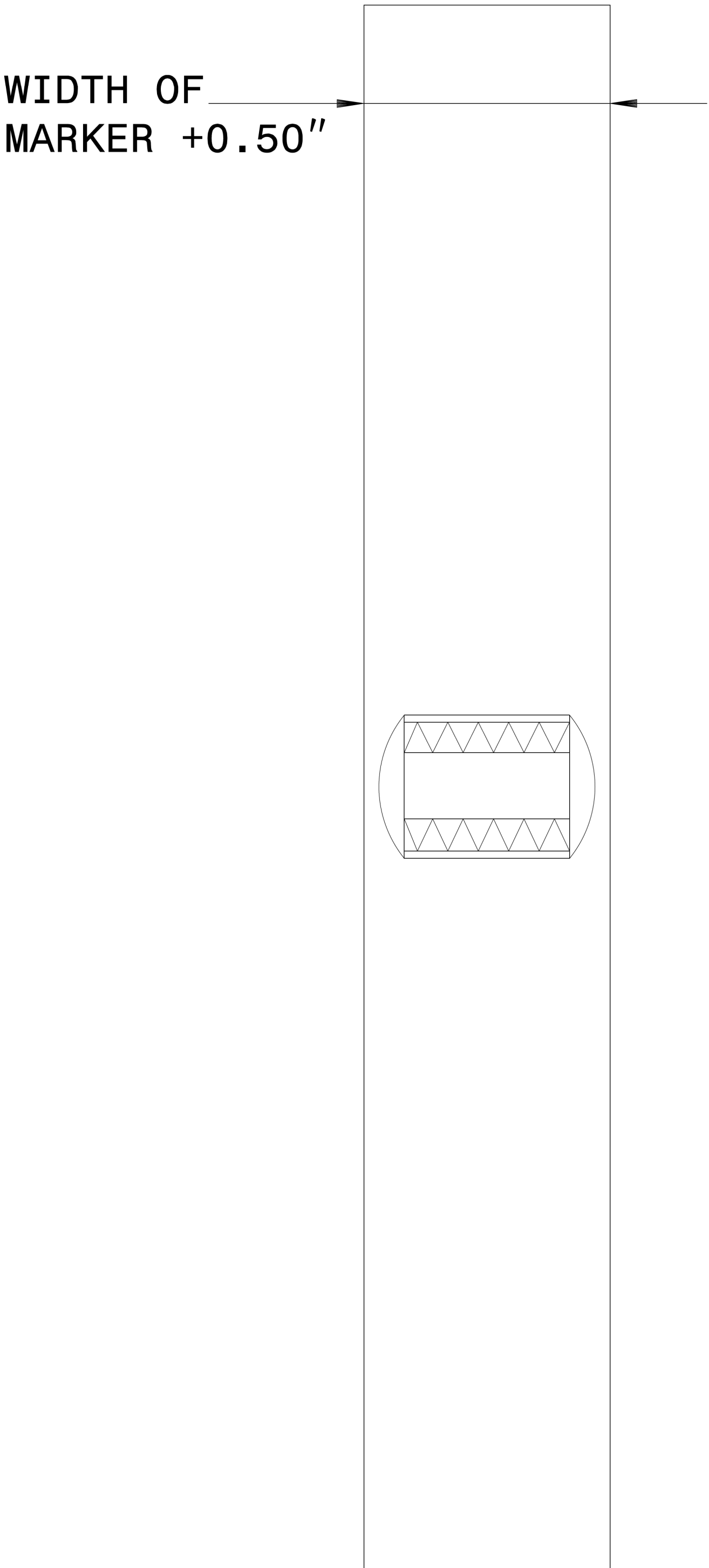
DETAIL A



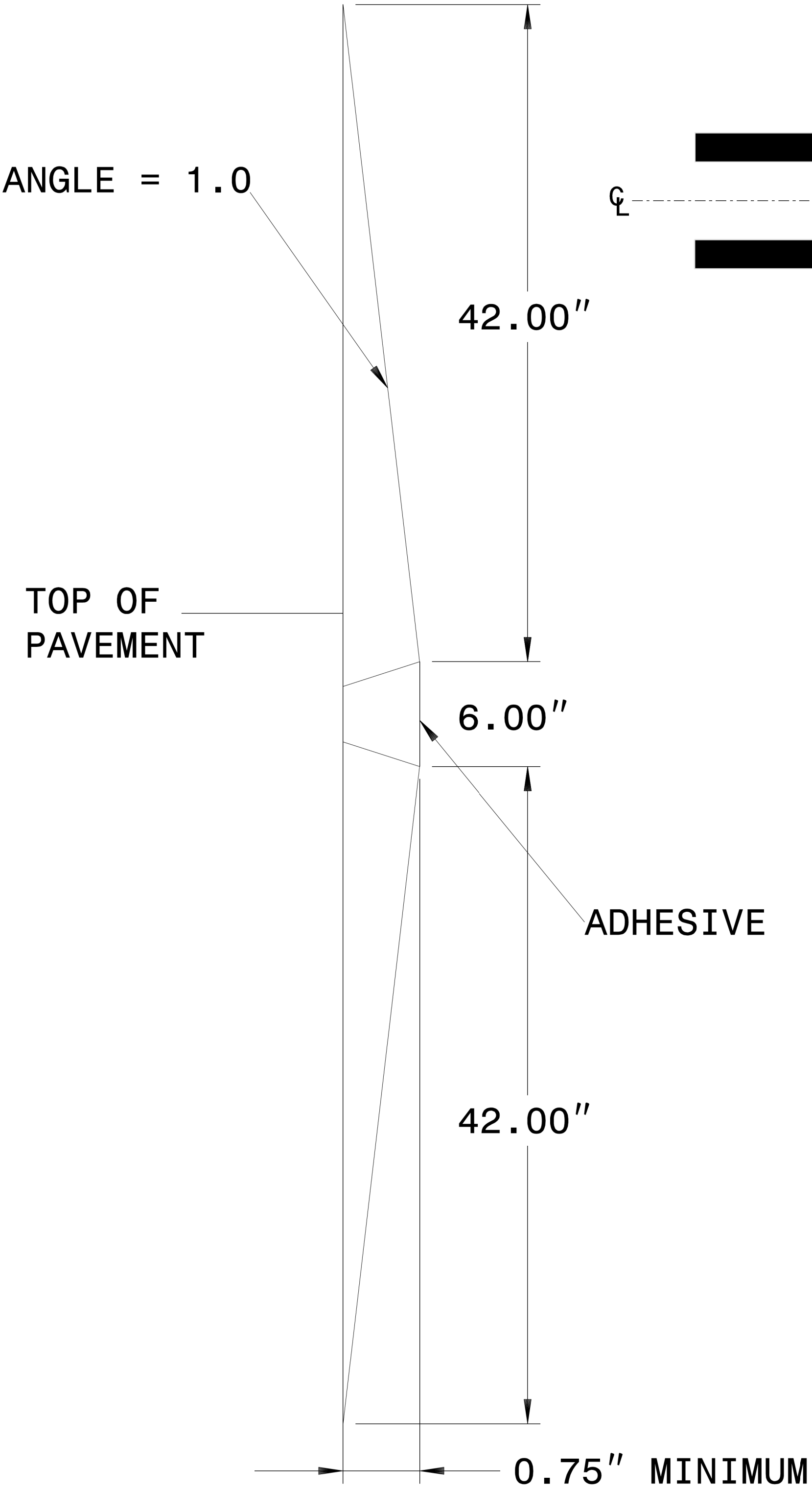
MARKER SPACING

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.:			

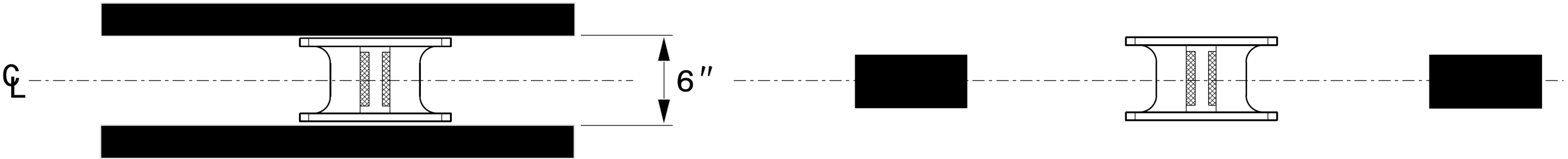
PLAN VIEW



SECTION VIEW



MARKER SPACING



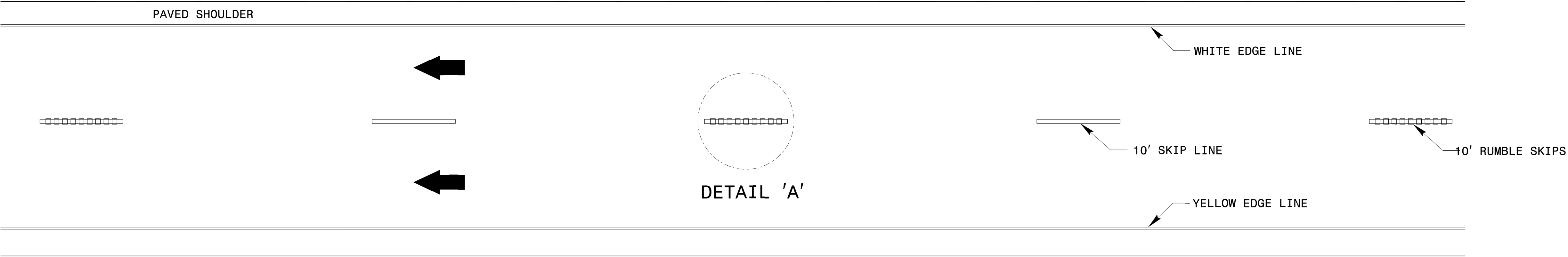
Signed by:
Matthew V. Springer
2/11/2025

NOTES:

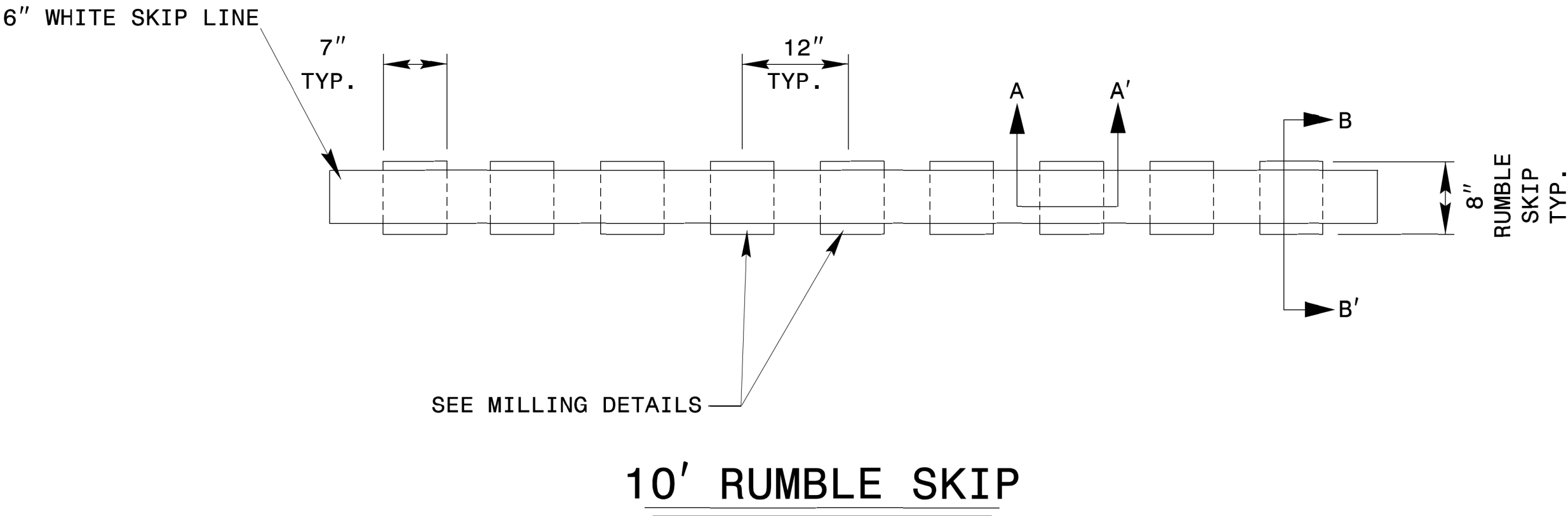
1. THE PAVEMENT SHALL BE SAW CUT TO THE DIMENSIONS SHOWN.
2. THE SAW CUT AREA MUST BE DRY AND FREE OF DUST. DIRT OR ANY MATERIAL WHICH WILL ADVERSELY AFFECT THE BOND OF THE ADHESIVE.
3. INSTALL MARKERS WITH APPROVED ADHESIVE. ADHESIVE SHOULD NOT BE ALLOWED TO BUILD UP IN FRONT OF MARKER LENS.
4. THE MARKER AND THE ADHESIVE PAD SHALL NOT EXCEED THE TOP OF THE PAVEMENT SURFACE. DEPTH = 0.75" MINIMUM.
5. RECESSED MARKERS INSTALLED ON CONCRETE PAVEMENT SHOULD BE INSTALLED A MINIMUM OF 2" FROM THE PAVEMENT JOINT OR EDGE

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

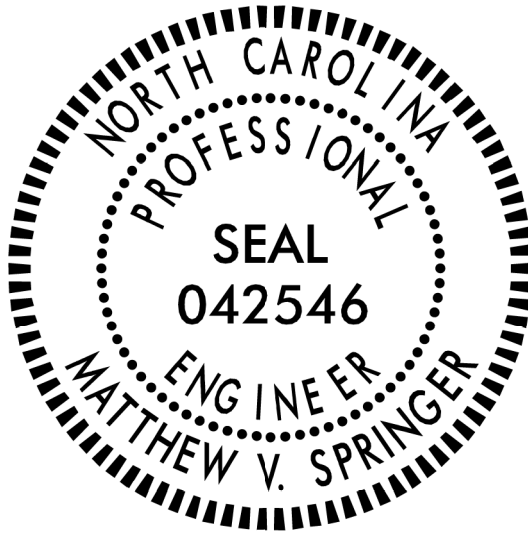
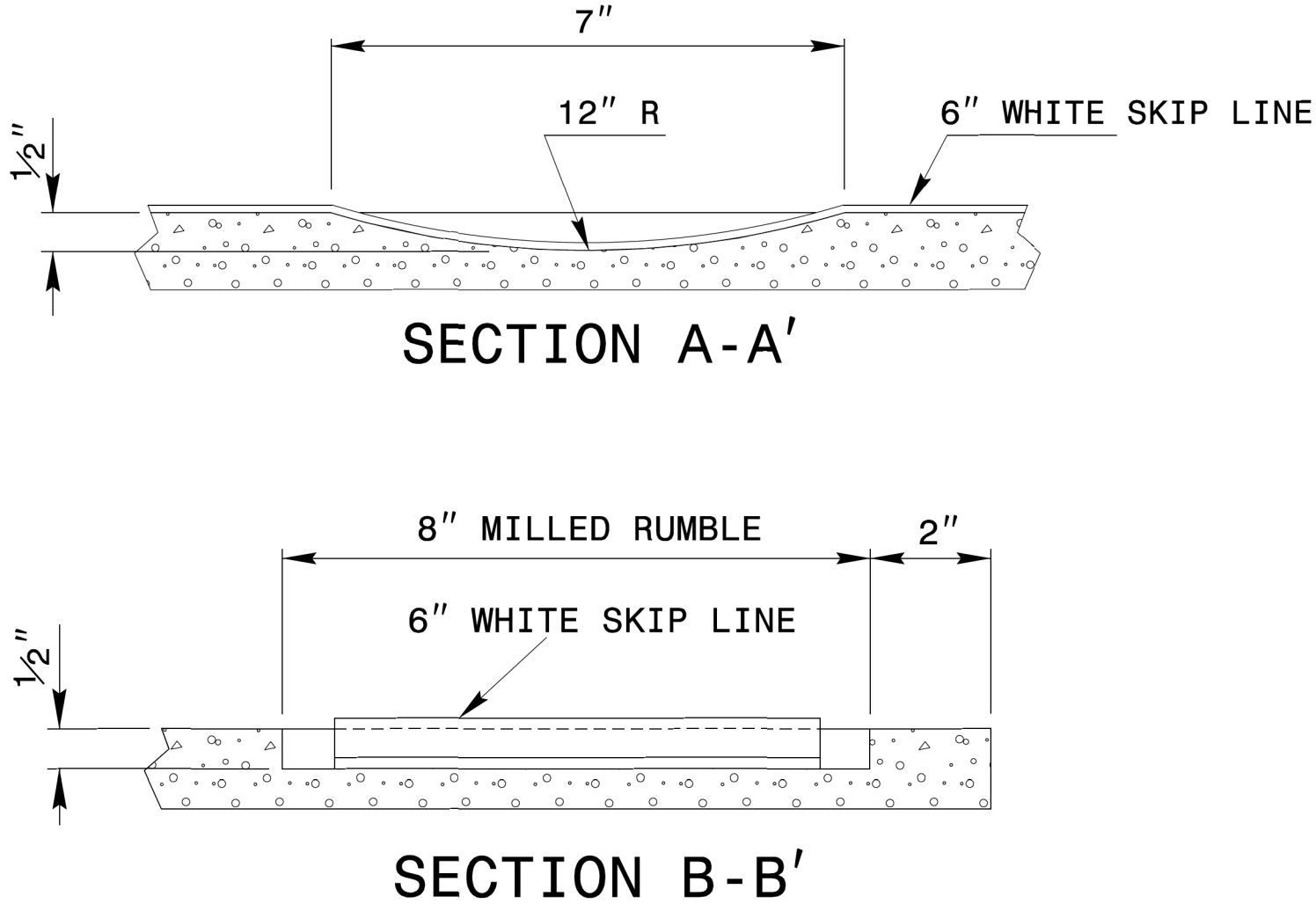
LANE TREATMENT



DETAIL 'A'



MILLING/MARKING DETAILS



Signed by:
Matthew V. Springer
BC060FBE8B584403
2/11/2025

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.:	

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jhambricht

Pavement Marking Schedule

COLD APPLIED PLASTIC (4")		
C2	WHITE SOLID LANE LINE (4")	4770000000-E
C4	3 FT. - 9 FT./SP WHITE MINISKIP (4")	4770000000-E
C13	YELLOW DOUBLE CENTER (4")	4770000000-E
COLD APPLIED PLASTIC (8")		
C46	WHITE CROSSWALK LINE (8")	4780000000-E
COLD APPLIED PLASTIC (24")		
C61	WHITE STOPBAR (24")	4795000000-E
COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOLS		
C70	LEFT TURN ARROW	4805000000-E
C74	COMBO. RIGHT/STRAIGHT ARROW	4805000000-E
THERMOPLASTIC (4", 90 MILS)		
T2	WHITE SOLID LANE LINE (4", 90 MIL)	4685000000-E
T3	10 FT. WHITE SKIP (4", 90 MIL)	4685000000-E
T4	3 FT. - 9 FT./SP WHITE MINISKIP (4", 90 MIL)	4685000000-E
T13	YELLOW DOUBLE CENTER (4", 90 MIL)	4685000000-E
THERMOPLASTIC (8", 90 MILS)		
T46	WHITE CROSSWALK LINE (8", 90 MIL)	4695000000-E
THERMOPLASTIC (24", 90 MILS)		
T61	WHITE STOPBAR (24", 90 MIL)	4709000000-E
T62	WHITE CROSSWALK LINE (24", 90 MIL)	4709000000-E
THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)		
T70	LEFT TURN ARROW (90 MIL)	4725000000-E
T72	STRAIGHT ARROW (90 MIL)	4725000000-E
T73	COMBO. LEFT/STRAIGHT ARROW (90 MIL)	4725000000-E
T76	COMBO. LEFT/RIGHT/STRAIGHT ARROW (90 MIL)	4725000000-E
YIELD LINE THERMOPLASTIC PAVEMENT MARKINGS (24", 90 MILS)		
T103	24" YIELD LINE TRIANGLE	SP
NON-CAST IRON SNOWPLOWABLE PAVEMENT MARKERS		
AA1	10' INLAID PAVEMENT MARKINGS	4894900000-E
AA2	10' RUMBLE STRIPS	4894900000-E
AA3	INLAID CRADLE MARKERS	4895000000-E
AA4	INLAID RAISED PAVEMENT MARKERS	4895000000-E
AA5	POLYCARBONATE H-SHAPED MARKERS	4895000000-E

TIP NO.
B-5985B

SHEET NO.
PMP -2

APPROVED:

Located by:
Regina M. Muncy
C7F551B522484FA...

DATE:

2/11/2025

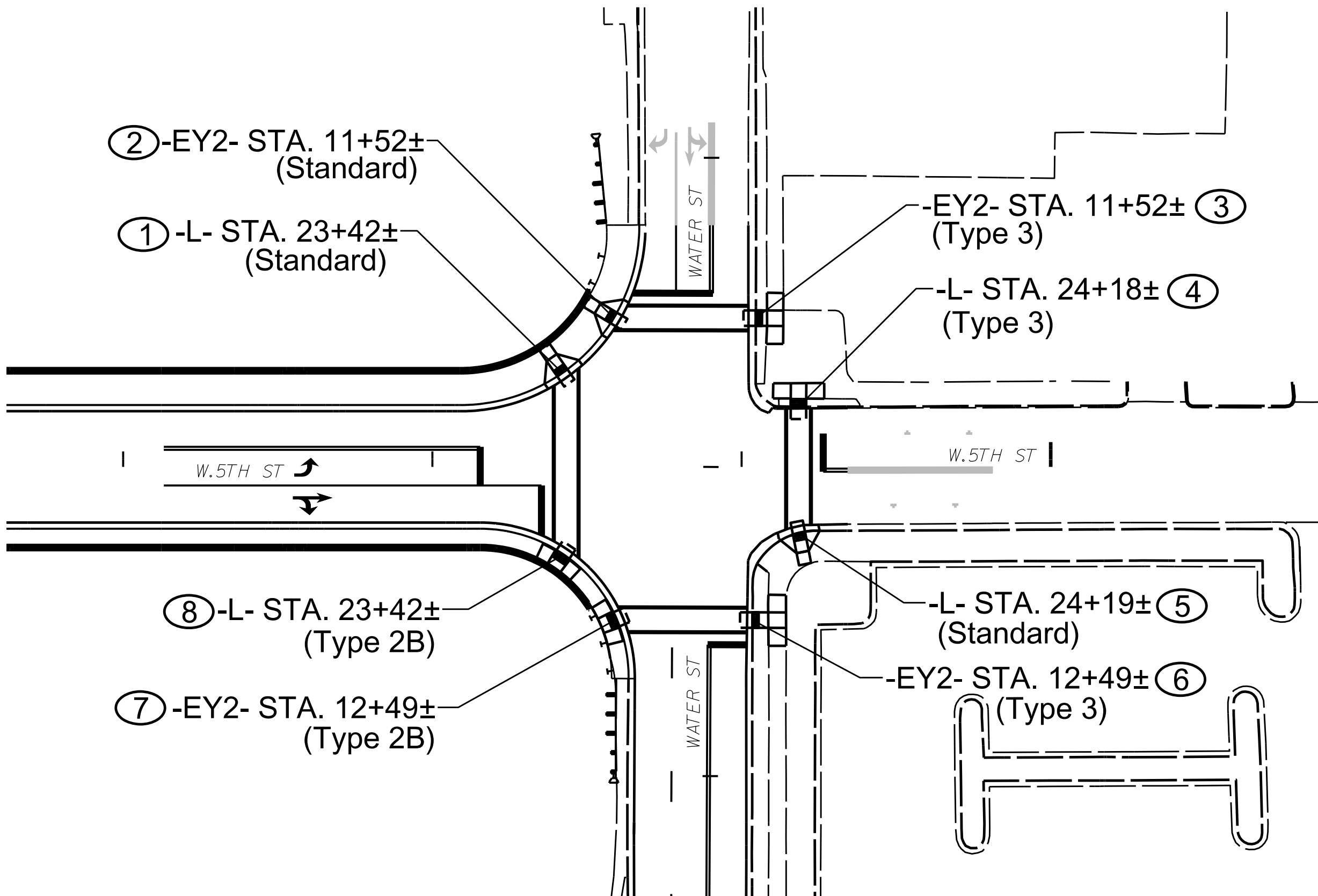
SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
43239
ENGINEER
REGINA M. MUNCY

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Stantec

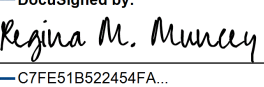
CURB RAMPS - 5th St. @ Water St.



CURB RAMP LOCATIONS & TYPES
and
PAVEMENT MARKING SCHEDULE

TIP NO.
B - 5985B

SHEET NO.
PM - 3

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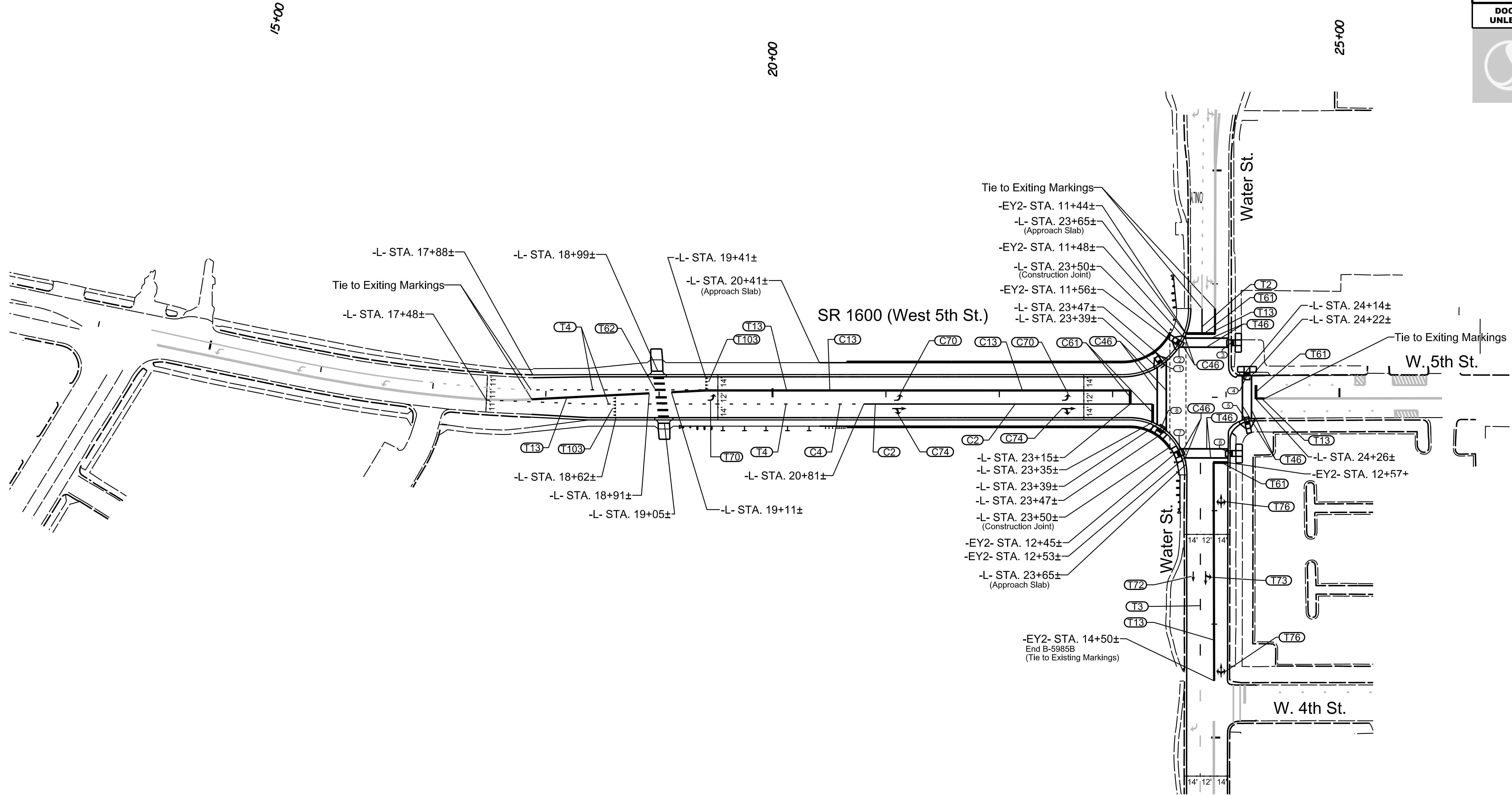
DATE: 2/11/2025

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PAVEMENT MARKING DETAIL

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