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T.I.P.: U-3422A

CONTRACT: C204875

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN  
CUMBERLAND COUNTY

LOCATION: SR 1003 (CAMDEN ROAD) FROM FUTURE I-295 (FAYETTEVILLE OUTER LOOP)  
TO NC 59 (HOPE MILLS ROAD)

|   |                    |
|---|--------------------|
| TIP NO.<br>U-3422A  | SHEET NO.<br>PMP-1 |
| APPROVED: <i>Michael T. Rzepka</i>  |                    |
| DATE: 10/3/2024   |                    |
| SEAL<br> |                    |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED                            |                    |

INDEX

| SHEET NO.          | DESCRIPTION  |
|--------------------|--|
| PMP-1              | PAVEMENT MARKING PLAN TITLE, GENERAL NOTES, ROADWAY STANDARD DRAWINGS, AND INDEX |
| PMP-1A             | PAVEMENT MARKING SCHEDULE  |
| PMP-1B THRU PMP-1D | SNOWPLOWABLE DELINEATION ALTERNATIVES  |
| PMP-2 THRU PMP-8   | PAVEMENT MARKING SHEETS  |

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- (CAMDEN RD) | THERMOPLASTIC | NON-CAST IRON SNOWPLOWABLE |
| ALL -Y- LINES   | THERMOPLASTIC | MATCH EXISTING             |
  - 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) 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.
  - G) SEE RSD 848.06, SHEETS 1 TO 13, FOR ALTERNATE CURB RAMP DESIGNS WHEN INDICATED ON PAVEMENT MARKING DETAIL SHEETS.

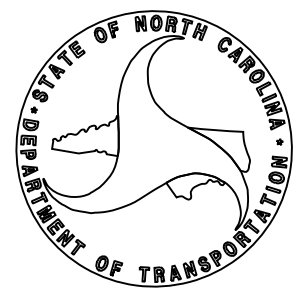
ROADWAY STANDARD DRAWING

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                           |
| 1205.07  | PAVEMENT MARKINGS - PEDESTRIAN CROSSWALKS                |
| 1205.08  | PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES            |
| 1205.09  | PAVEMENT MARKINGS - PAINTED ISLANDS                      |
| 1205.10  | PAVEMENT MARKINGS - SCHOOL AREAS                         |
| 1205.13  | PAVEMENT MARKINGS - LANE REDUCTIONS                      |
| 1205.15  | PAVEMENT MARKINGS - REDUCED CONFLICT INTERSECTIONS       |
| 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                                |

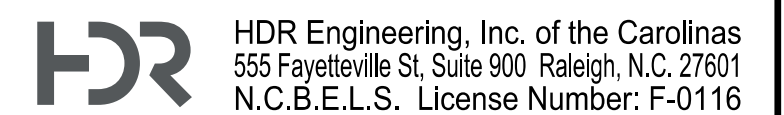
PLAN SUBMITTED TO: N.C.D.O.T. SIGNING AND DELINEATION UNIT

MITCH EATON, P.E. SIGNING & DELINEATION REGIONAL ENGINEER  
MATT TRACEY, P.E. SIGNING & DELINEATION PROJECT DESIGN ENGINEER

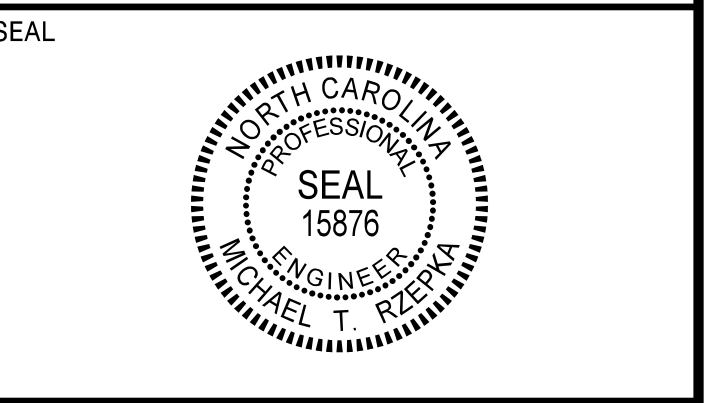


PLAN PREPARED BY: HDR ENGINEERING, INC. OF THE CAROLINAS

MIKE RZEPKA, P.E. SIGNING & DELINEATION PROJECT DESIGN ENGINEER  
CHRIS HARNDEN SIGNING & DELINEATION PROJECT DESIGN TECHNICIAN



APPROVED: Michael T. Rzepka  
 DATE: 10/3/2024



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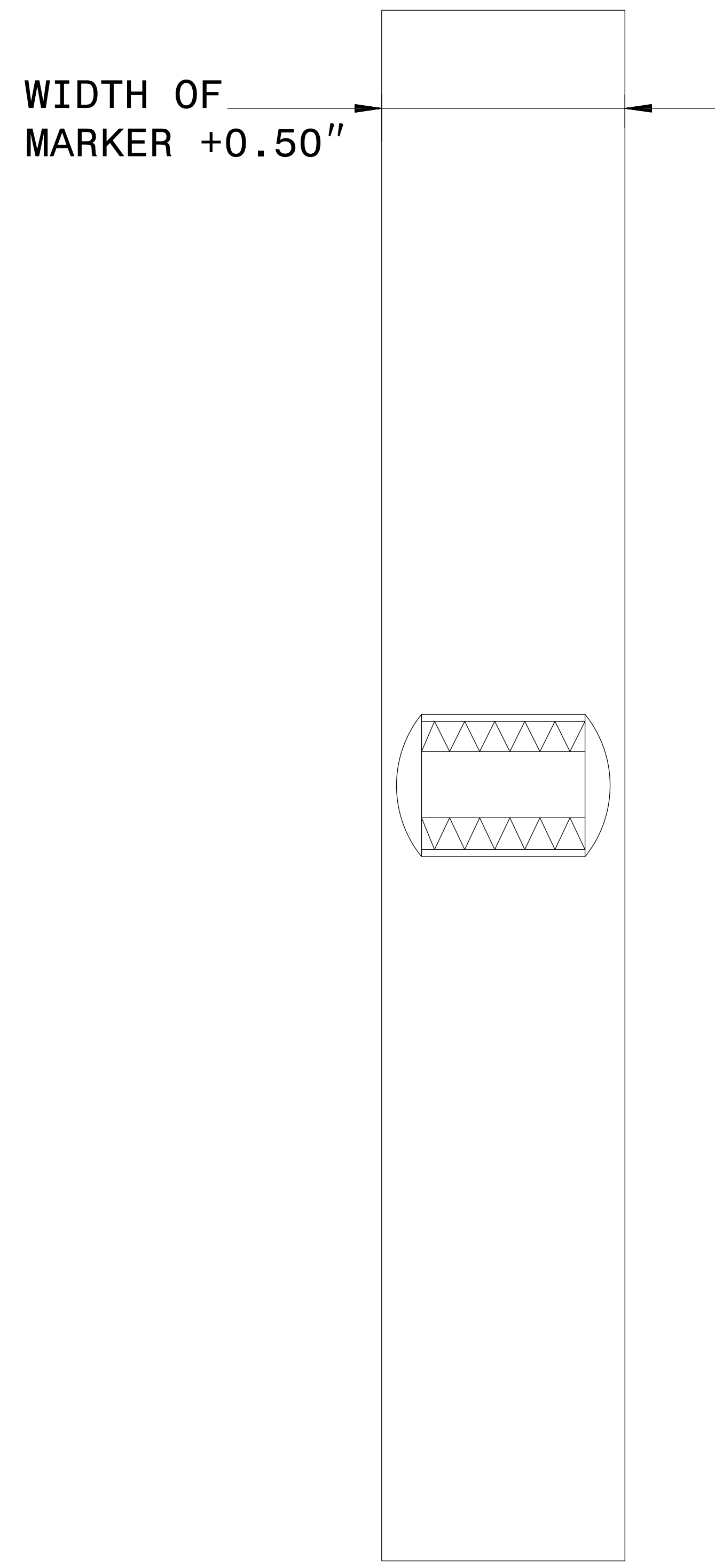
PAVEMENT MARKING SCHEDULE

- T1** THERMOPLASTIC 4" WHITE EDGELINE (90 MIL)
- T2** THERMOPLASTIC 4" WHITE SOLID LANE LINE (90 MIL)
- T3** THERMOPLASTIC 4" 10'-30'/SP. WHITE SKIP (90 MIL)
- T4** THERMOPLASTIC 4" 3'-9'/SP. WHITE MINI-SKIP (90 MIL)
- T5** THERMOPLASTIC 4" 2'-6'/SP. WHITE MINI-SKIP (90 MIL)
- T10** THERMOPLASTIC 4" YELLOW EDGELINE (90 MIL)
- T13** THERMOPLASTIC 4" YELLOW DOUBLE CENTER (90 MIL)
- T14** THERMOPLASTIC 4" 2'-6'/SP. YELLOW MINI-SKIP (90 MIL)
- T40** THERMOPLASTIC 8" WHITE GORELINE (90 MIL)
- T42** THERMOPLASTIC 8" YELLOW DIAGONAL (90 MIL)
- T43** THERMOPLASTIC 8" WHITE SOLID LANE LINE (90 MIL)
- T44** THERMOPLASTIC 8" 3'-9'/SP. WHITE MINI-SKIP (90 MIL)
- T51** THERMOPLASTIC 12" WHITE DIAGONAL (90 MIL)
- T52** THERMOPLASTIC 12" YELLOW DIAGONAL (90 MIL)
- T61** THERMOPLASTIC 24" WHITE STOPBAR (90 MIL)
- T62** THERMOPLASTIC 24" WHITE CROSSWALK LINE (90 MIL)
- T70** THERMOPLASTIC LEFT TURN ARROW (90 MIL)
- T71** THERMOPLASTIC RIGHT TURN ARROW (90 MIL)
- T72** THERMOPLASTIC STRAIGHT ARROW (90 MIL)
- T74** THERMOPLASTIC COMBO RIGHT-STRAIGHT ARROW (90 MIL)
- T77** THERMOPLASTIC U-TURN ARROW (90 MIL)
- T79** THERMOPLASTIC MERGE ARROW (90 MIL)
- T100** THERMOPLASTIC ALPHANUMERIC CHARACTER (90 MIL)
  
- ME** NON-CAST IRON SNOWPLOWABLE MARKER - YELLOW & YELLOW
- MF** NON-CAST IRON SNOWPLOWABLE MARKER - CRYSTAL & RED

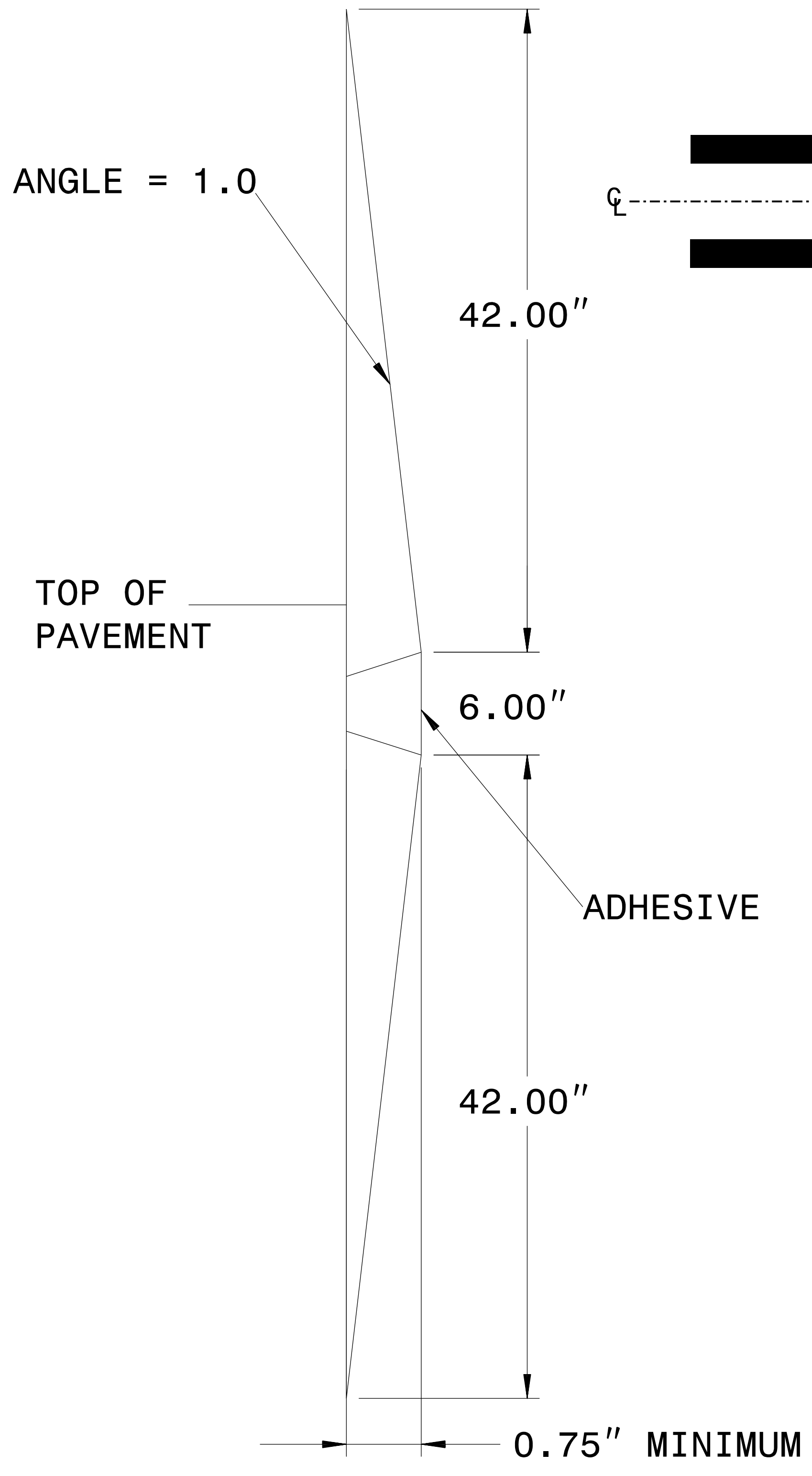
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**PAVEMENT MARKING SCHEDULE**

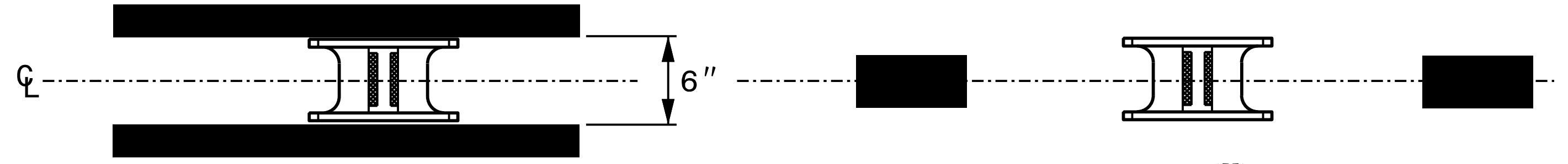
### PLAN VIEW



### SECTION VIEW



### MARKER SPACING



10/4/2024

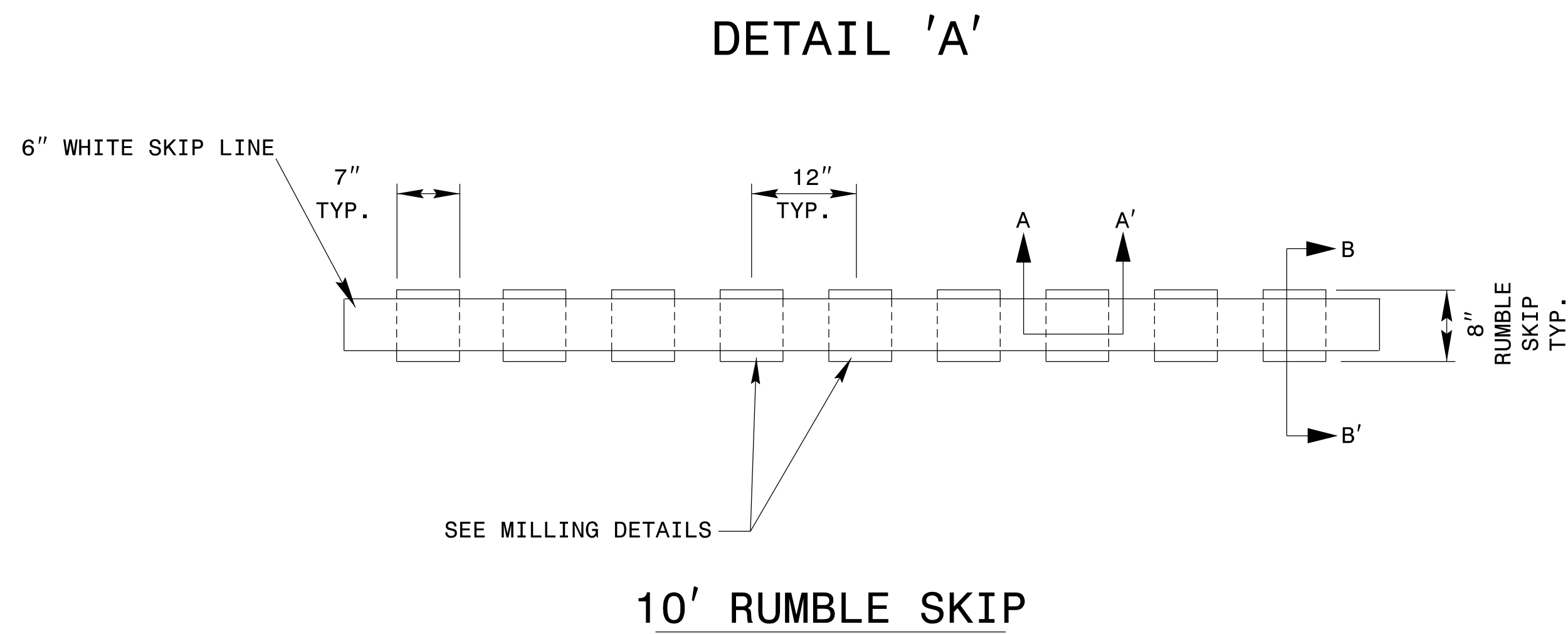
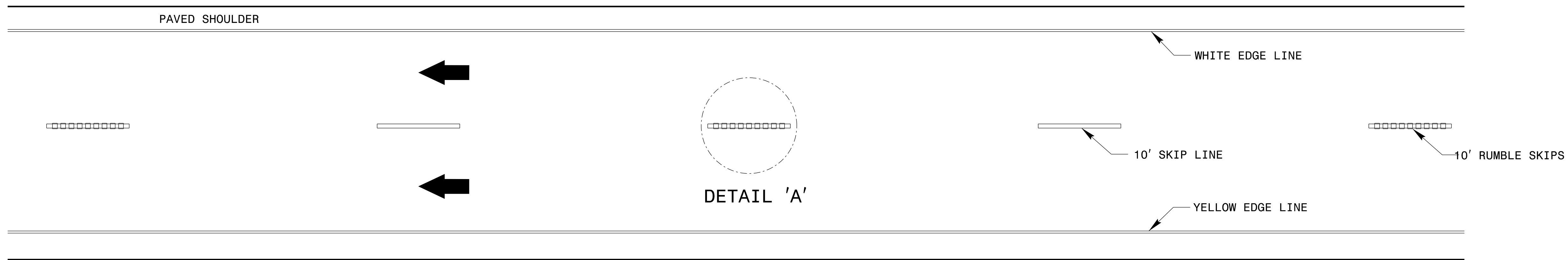
#### NOTES:

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

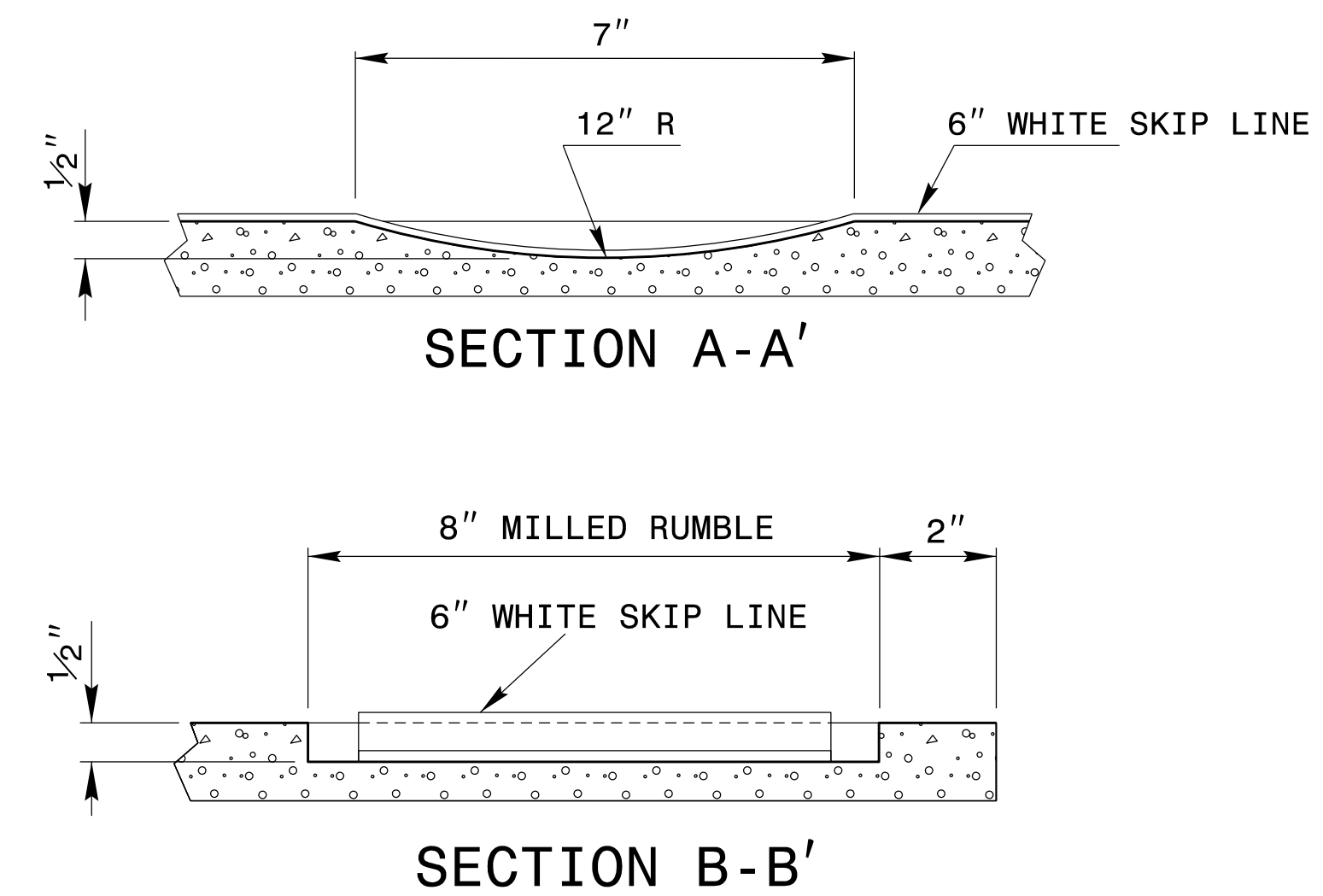
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|---|------------------|
| <b>CONTRACTS STANDARDS AND DEVELOPMENT UNIT</b> |                  |
| Office 919-707-8950 FAX 919-250-4119            |                  |
| <b>DETAIL OF INLAID RAISED PAVEMENT MARKER</b>  |                  |
| ORIGINAL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



# LANE TREATMENT



### MILLING/MARKING DETAILS

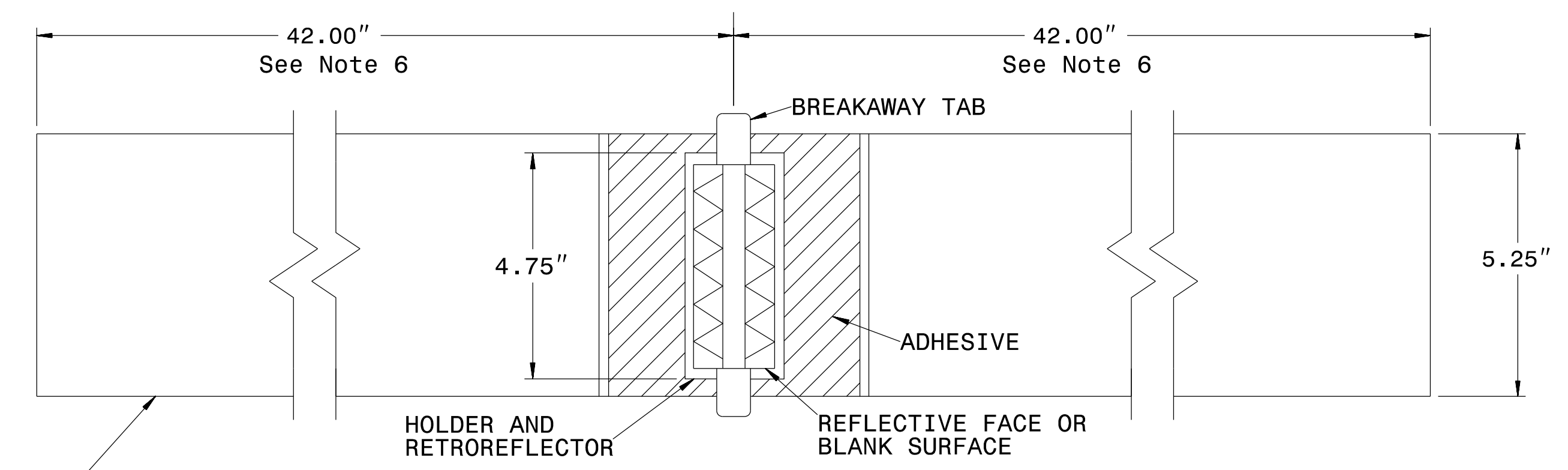


10/4/2024

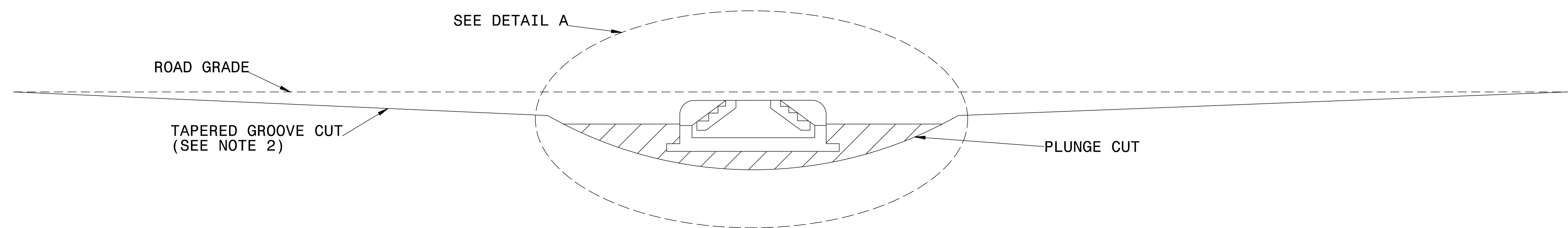
**NOTES:**

- 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

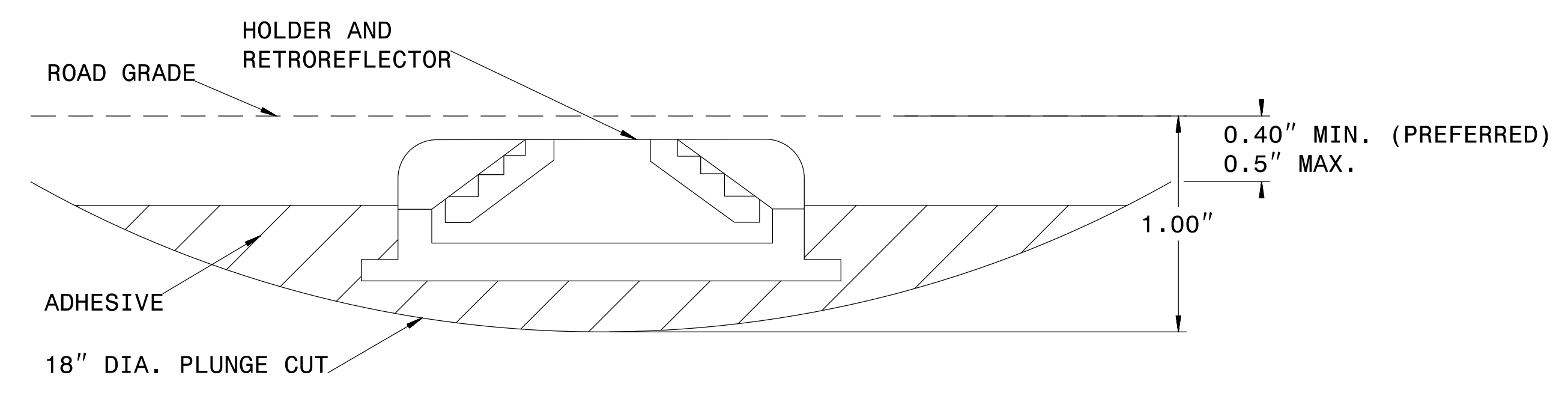
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|---|-------------------------|
| <b>CONTRACTS STANDARDS AND DEVELOPMENT UNIT</b> |                         |
| Office 919-707-8950 FAX 919-250-4119            |                         |
| <b>DETAIL OF MILLED RUMBLE SKIPS</b>            |        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



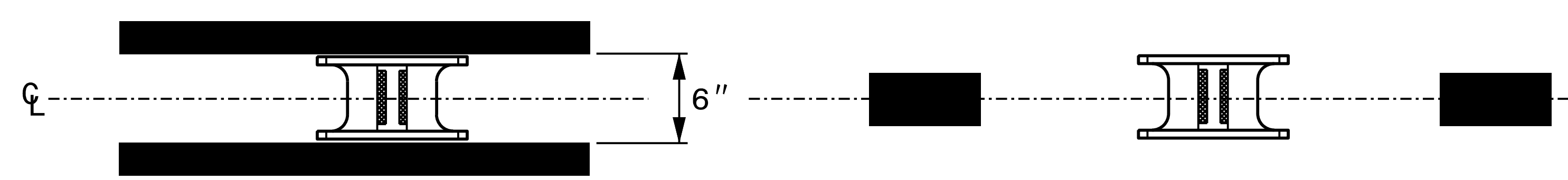
PLAN VIEW - TANGENT SECTIONS



PROFILE VIEW



DETAIL A



MARKER SPACING

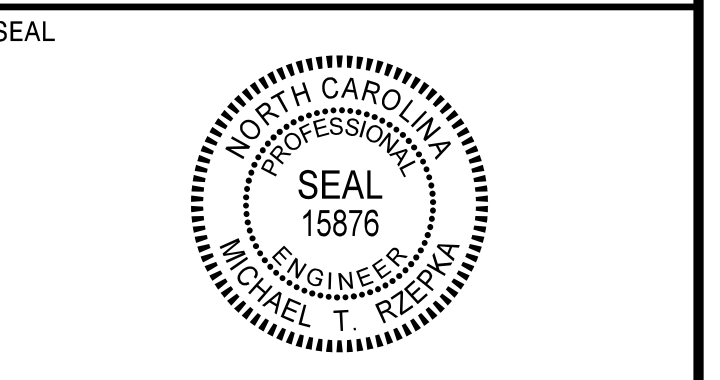
NOTES:

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 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.

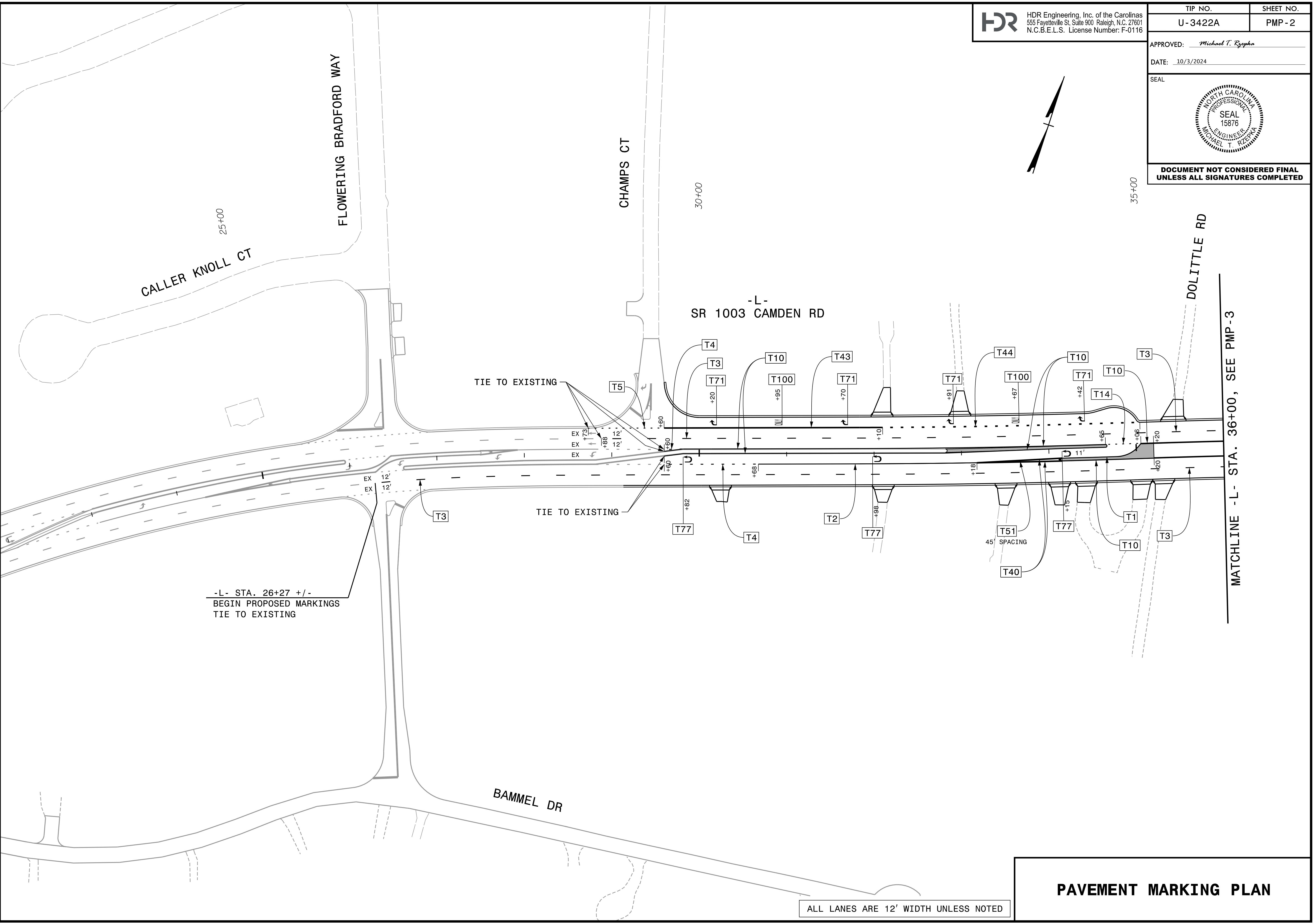
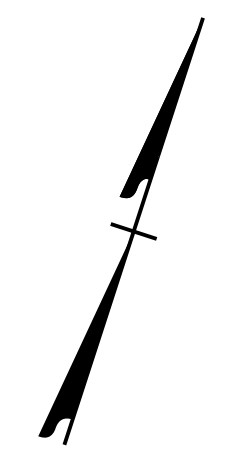


10/4/2024

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



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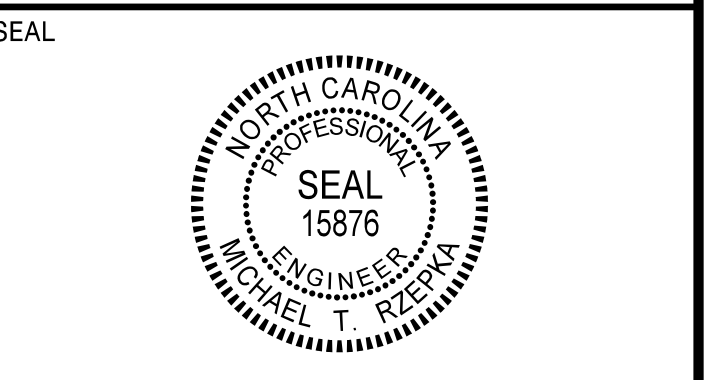
-L- STA. 26+27 +/-  
BEGIN PROPOSED MARKINGS  
TIE TO EXISTING

MATCHLINE -L- STA. 36+00, SEE PMP-3

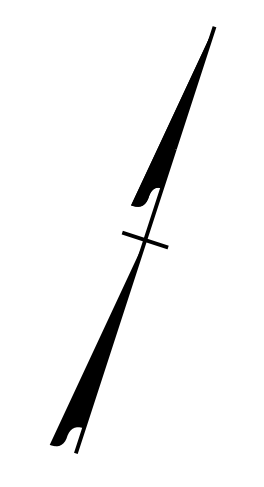
ALL LANES ARE 12' WIDTH UNLESS NOTED

# PAVEMENT MARKING PLAN

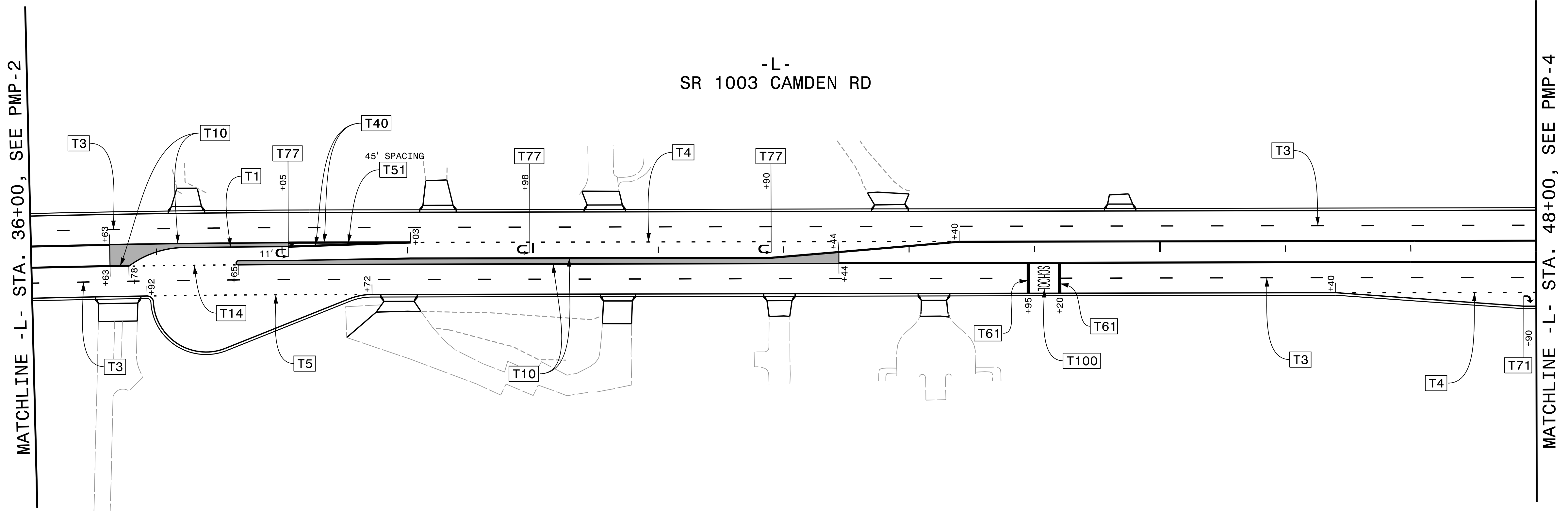
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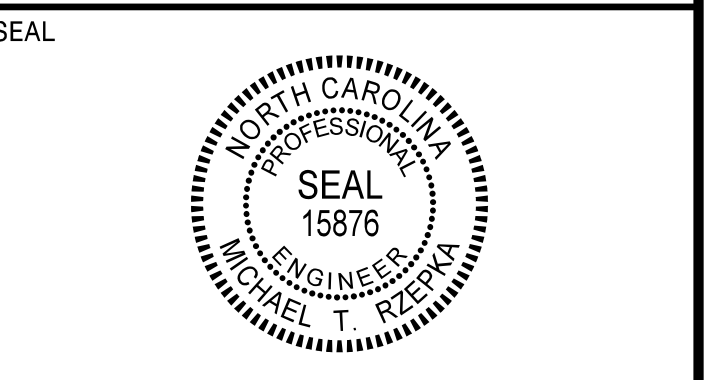
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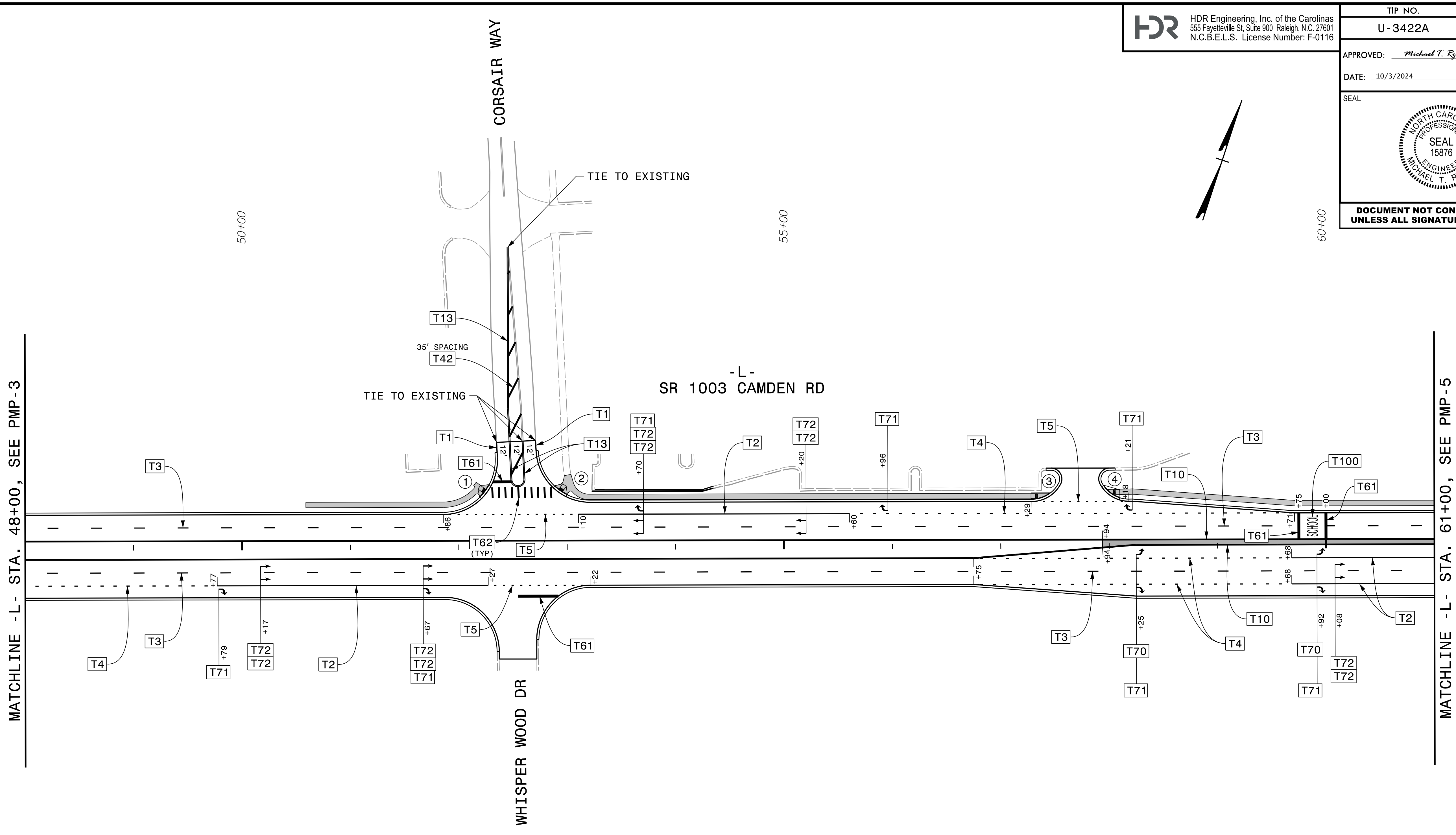
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# PAVEMENT MARKING PLAN





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MATCHLINE -L- STA. 48+00, SEE PMP-3

MATCHLINE -L- STA. 61+00, SEE PMP-5

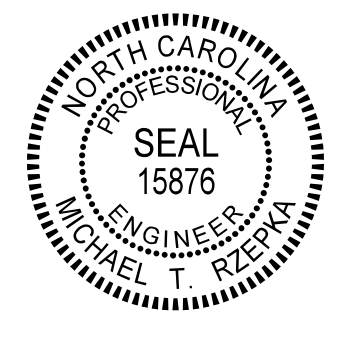
| CURB RAMP LOCATIONS,<br>CENTER OF RAMP AT FACE OF CURB.<br>ALL RAMPS ARE STANDARD UNLESS NOTED<br>(SEE GENERAL NOTE "G"). |                                       |
|---|---------------------------------------|
| ①   | -L- STA. 52+24.16, 53.95' LT          |
| ②   | -L- STA. 52+93.92, 54.39' LT          |
| ③   | -L- STA. 57+41.37, 48.75' LT (TYPE 1) |
| ④   | -L- STA. 58+00.30, 52.14' LT          |

ALL LANES ARE 12' WIDTH UNLESS NOTED

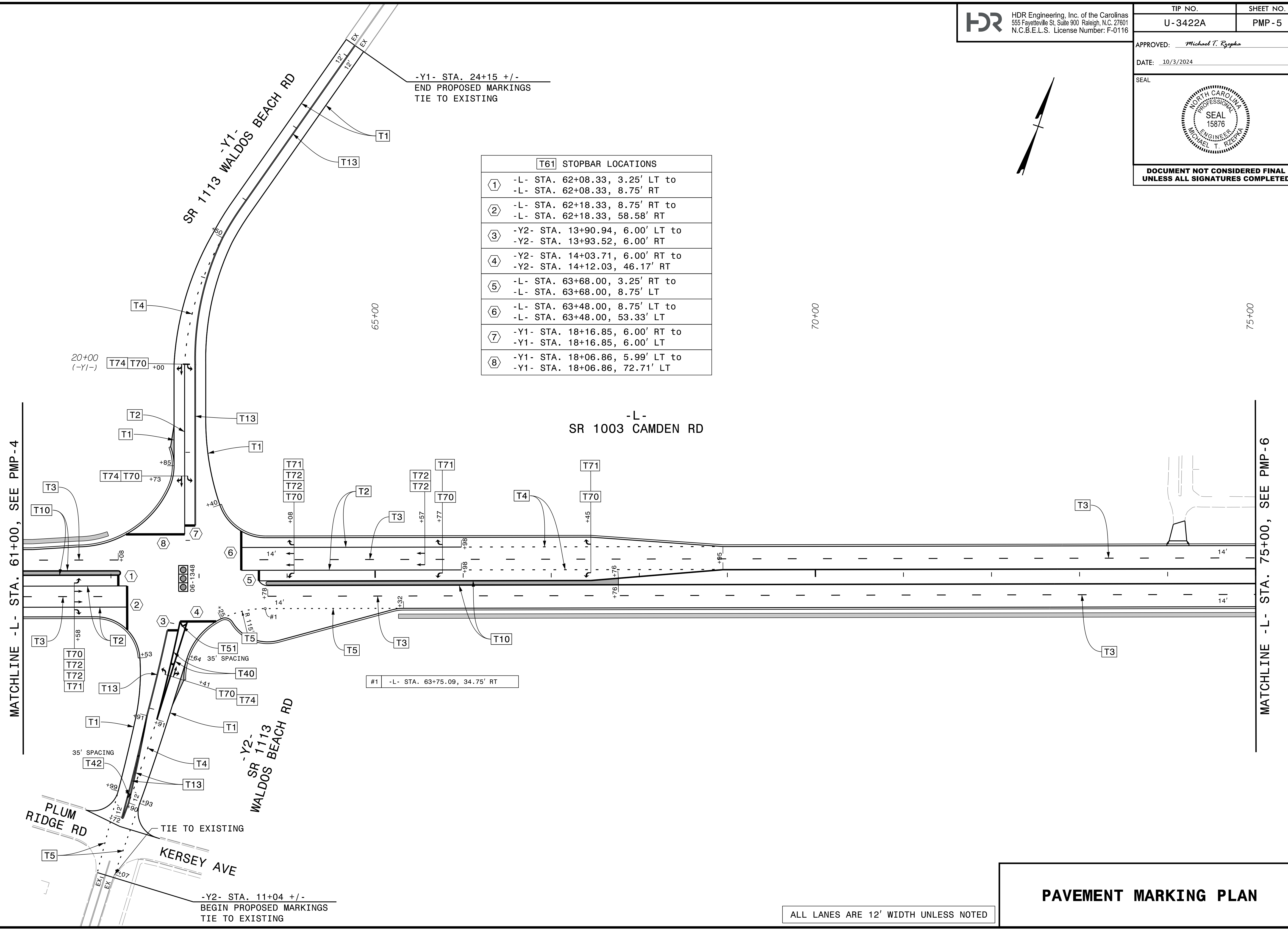
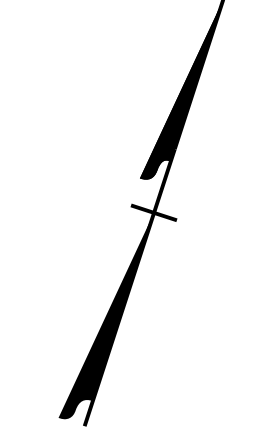
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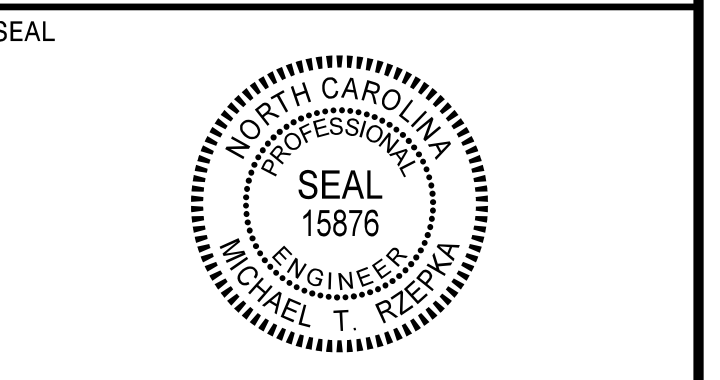
| T61 STOPBAR LOCATIONS |  |
|-----------------------|--|
| ①                     | -L- STA. 62+08.33, 3.25' LT to<br>-L- STA. 62+08.33, 8.75' RT    |
| ②                     | -L- STA. 62+18.33, 8.75' RT to<br>-L- STA. 62+18.33, 58.58' RT   |
| ③                     | -Y2- STA. 13+90.94, 6.00' LT to<br>-Y2- STA. 13+93.52, 6.00' RT  |
| ④                     | -Y2- STA. 14+03.71, 6.00' RT to<br>-Y2- STA. 14+12.03, 46.17' RT |
| ⑤                     | -L- STA. 63+68.00, 3.25' RT to<br>-L- STA. 63+68.00, 8.75' LT    |
| ⑥                     | -L- STA. 63+48.00, 8.75' LT to<br>-L- STA. 63+48.00, 53.33' LT   |
| ⑦                     | -Y1- STA. 18+16.85, 6.00' RT to<br>-Y1- STA. 18+16.85, 6.00' LT  |
| ⑧                     | -Y1- STA. 18+06.86, 5.99' LT to<br>-Y1- STA. 18+06.86, 72.71' LT |

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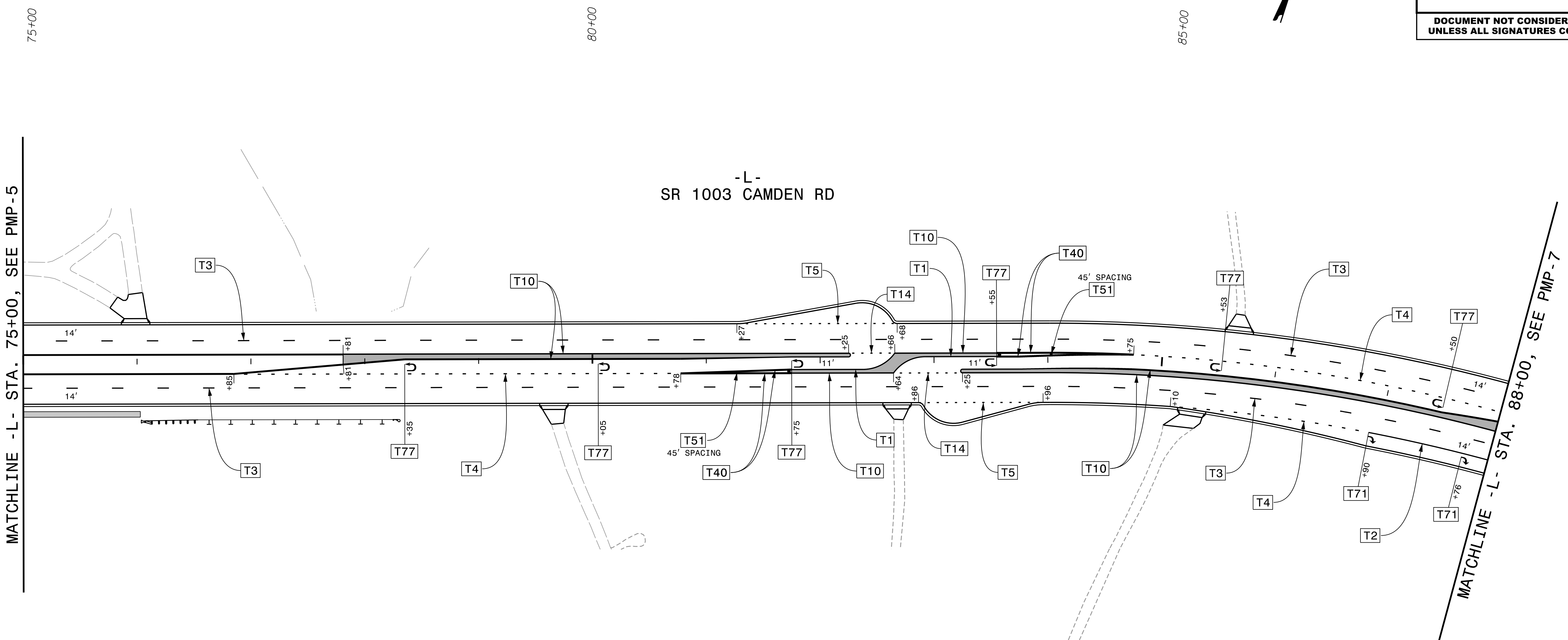
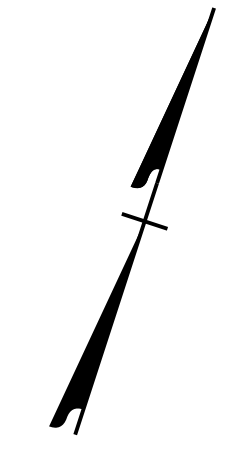
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ALL LANES ARE 12' WIDTH UNLESS NOTED

### PAVEMENT MARKING PLAN



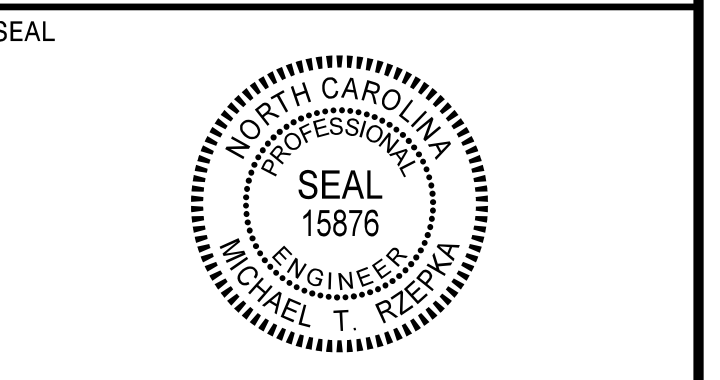
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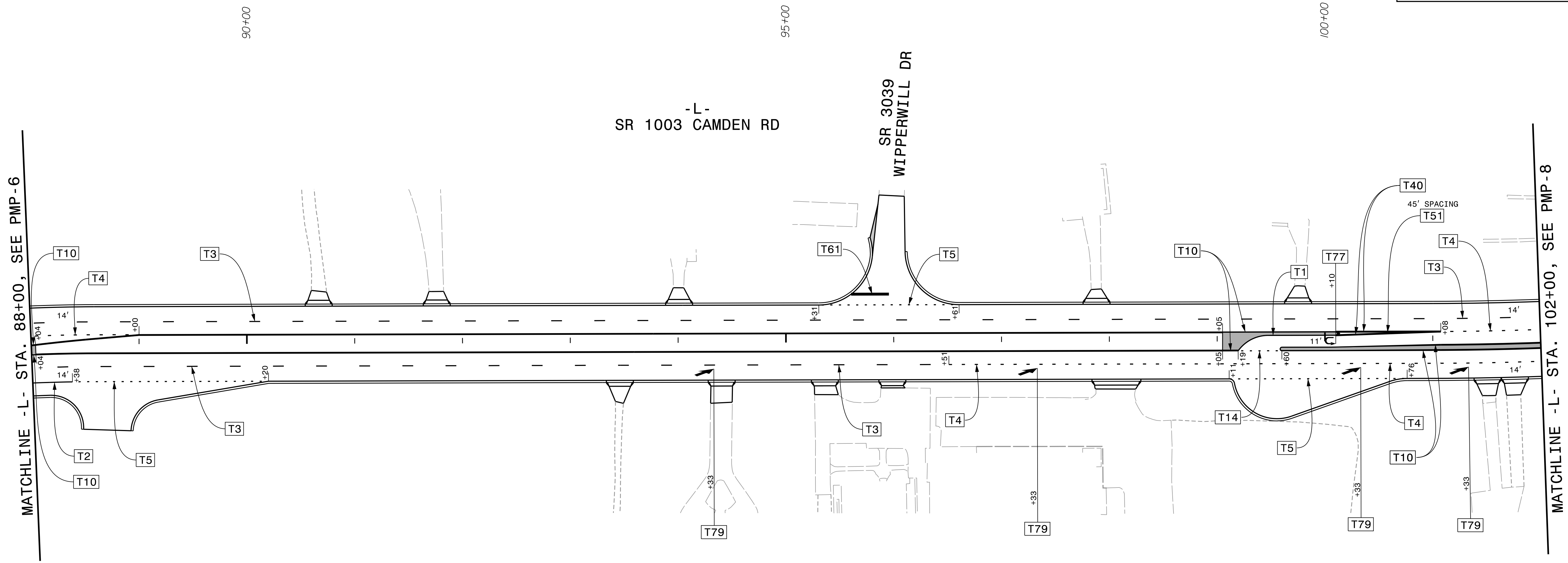
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ALL LANES ARE 12' WIDTH UNLESS NOTED

**PAVEMENT MARKING PLAN**



**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



MATCHLINE - L- STA. 88+00, SEE PMP-6

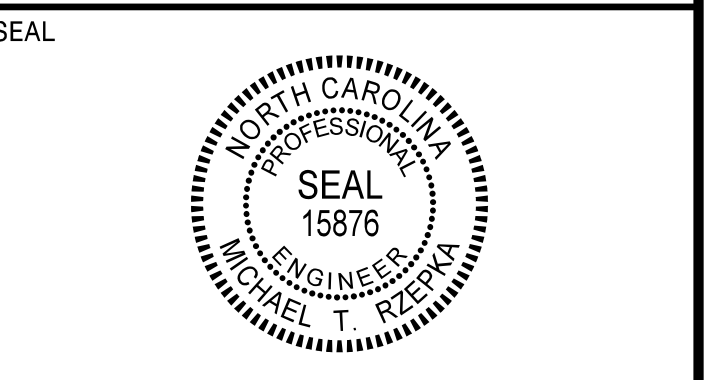
MATCHLINE - L- STA. 102+00, SEE PMP-8

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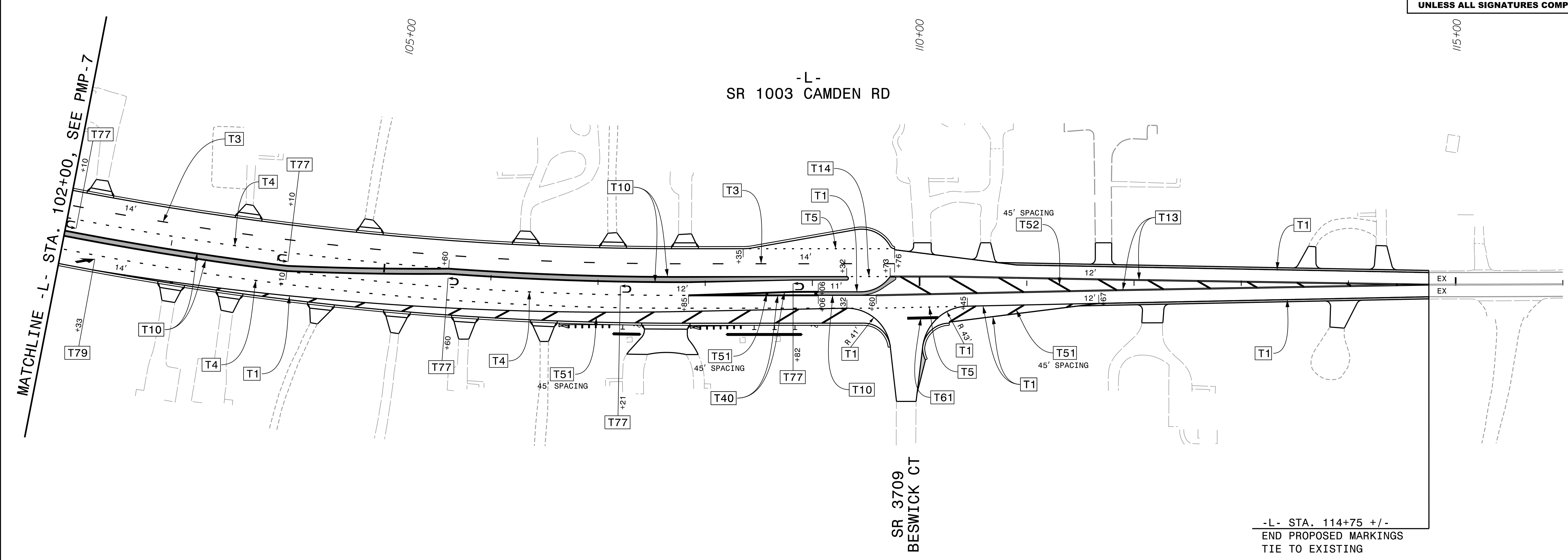
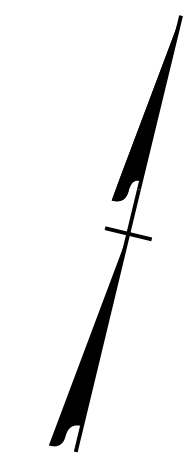
ALL LANES ARE 12' WIDTH UNLESS NOTED

# PAVEMENT MARKING PLAN





**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



PLOT DRIVER: NCDOT\_color\_eng\_50.pit  
 USER: CHARNDEN  
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PENTABLE: NCDOT\_PMP.tbl  
 TIME: 11:07:01 AM

DATE: 10/3/2024  
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ALL LANES ARE 12' WIDTH UNLESS NOTED

**PAVEMENT MARKING PLAN**