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| PROJECT REFERENCE NO. | SHEET NO. |
| U-4910A | PMP-1 |
| APPROVED: _____ | |
| DATE: _____ | |
| SEAL | |
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| 1/5/2017 | |

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
CABARRUS COUNTY**

**LOCATION: DERITA ROAD (SR 1445) FROM NORTH OF CONCORD MILLS
BLVD (SR 2864) TO AVIATION BLVD**

T.I.P.: U-4910A

INDEX

| SHEET NO. | DESCRIPTION |
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| PMP-3 | CROSSWALK PAVEMENT MARKING GUIDANCE DETAIL |
| PMP-4 THRU PMP-7 | PAVEMENT MARKING PLAN SHEETS |
| PMP-8 | STOP BAR AND CROSSWALK LOCATIONS FOR SIGNALIZED INTERSECTION |

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 | RAISED |
| ALL BRIDGES | COLD APPLIED PLASTIC (TYPE II) | |
 - B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
 - C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
 - D) STOP BARS ARE TO BE LOCATED A MIN OF 10 ft FROM THE EDGE OF TRAVEL UNLESS INTERSECTION IS SIGNALIZED OR AS DIRECTED BY THE ENGINEER.
 - E) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING COLD APPLIED PLASTIC PAVEMENT MARKING MATERIAL.
 - F) TYPE 3 COLD APPLIED PLASTIC MAY BE USED IN LIEU OF TYPE 2 COLD APPLIED PLASTIC. IF TYPE 3 COLD APPLIED PLASTIC IS USED, IT SHALL BE PAID FOR USING THE TYPE 2 COLD APPLIED PLASTIC PAY ITEM.
 - G) MARKERS SHALL BE INSTALLED ACCORDING TO THE NCDOT ROADWAY STANDARD DRAWING 1250.01
 - H) 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

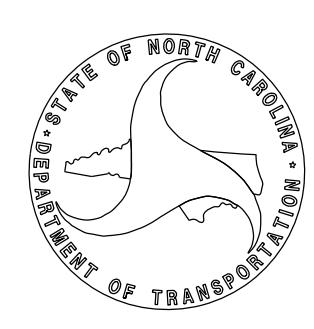
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| 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 |
| 1205.09 | PAVEMENT MARKINGS - PAINTED ISLANDS |
| 1205.12 | PAVEMENT MARKINGS - BRIDGES |
| 1250.01 | RAISED PAVEMENT MARKERS - INSTALLATION SPACING |
| 1251.01 | RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY |
| 1253.01 | RAISED PAVEMENT MARKERS - SNOWPLOWABLE |
| 1261.01 | GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING |
| 1261.02 | GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING |
| 1262.01 | GUARDRAIL END DELINEATION |

CONTRACT:

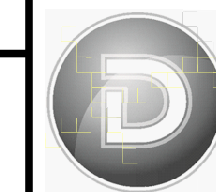
PLAN REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

Kelvin L. Jordan SIGNING & DELINEATION REGIONAL ENGINEER
Jon-Robert Navarrete SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PLAN PREPARED BY: DAVENPORT

M. Scott Clark, PE PROJECT DESIGN ENGINEER



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PAVEMENT MARKING SCHEDULE

PAVEMENT MARKING LINES

-----THERMOPLASTIC (4", 90 MIL)
TA - WHITE EDGELINE
TB - YELLOW EDGELINE

-----THERMOPLASTIC (4", 120 MIL)
T8 - 2' - 6' WHITE MINI -SKIP
T9 - 2' - 6' YELLOW MINI -SKIP
TC - 10FT. WHITE SKIP
TD - 3' - 9' WHITE MINI-SKIP
TE - WHITE SOLID LANE LINE
TI - YELLOW DOUBLE CENTER

-----THERMOPLASTIC (8", 90 MIL)
TN - WHITE GORELINE

----- THERMOPLASTIC (8", 120 MIL)
TQ - WHITE CROSSWALK LINE






----- THERMOPLASTIC (12", 90 MIL)
TU - WHITE DIAGONAL

-----THERMOPLASTIC (24", 120 MIL)
T2 - WHITE STOPBAR

----- COLD APPLIED PLASTIC (4")
CC - 10 FT. WHITE SKIP
CD - 3' - 9' WHITE MINI-SKIP
CE - WHITE SOLID LANE LINE
CI - YELLOW DOUBLE CENTER

PAVEMENT MARKING SYMBOLS


----- THERMOPLASTIC SYMBOLS (90 MIL)

-  UA - LEFT TURN ARROW
-  UB - RIGHT TURN ARROW
-  UC - STRIAGHT ARROW
-  UE - COMBINATION STRAIGHT & RIGHT TURN ARROW
-  UT - UTURN ARROW

----- COLD APPLIED PLASTIC

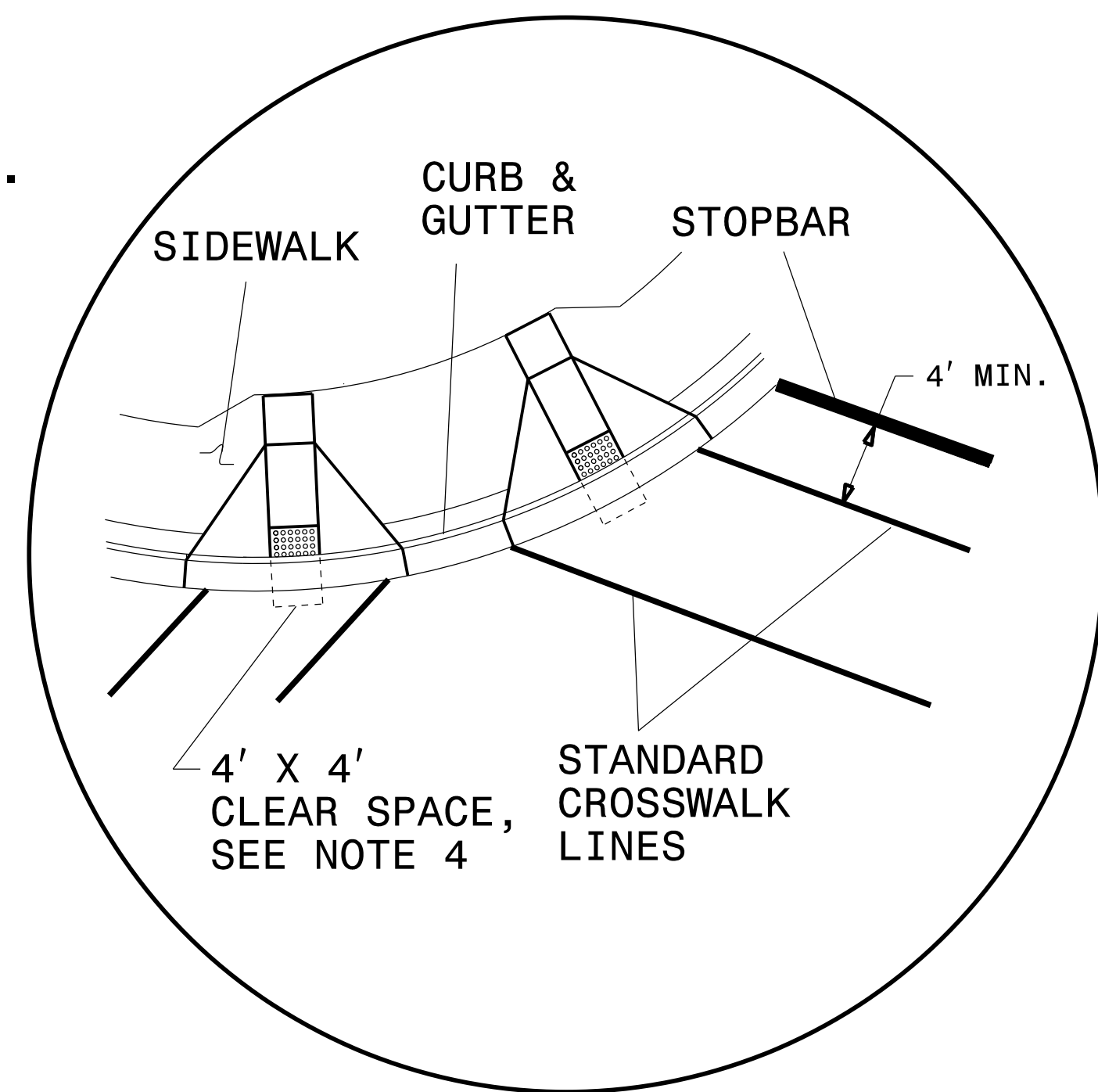
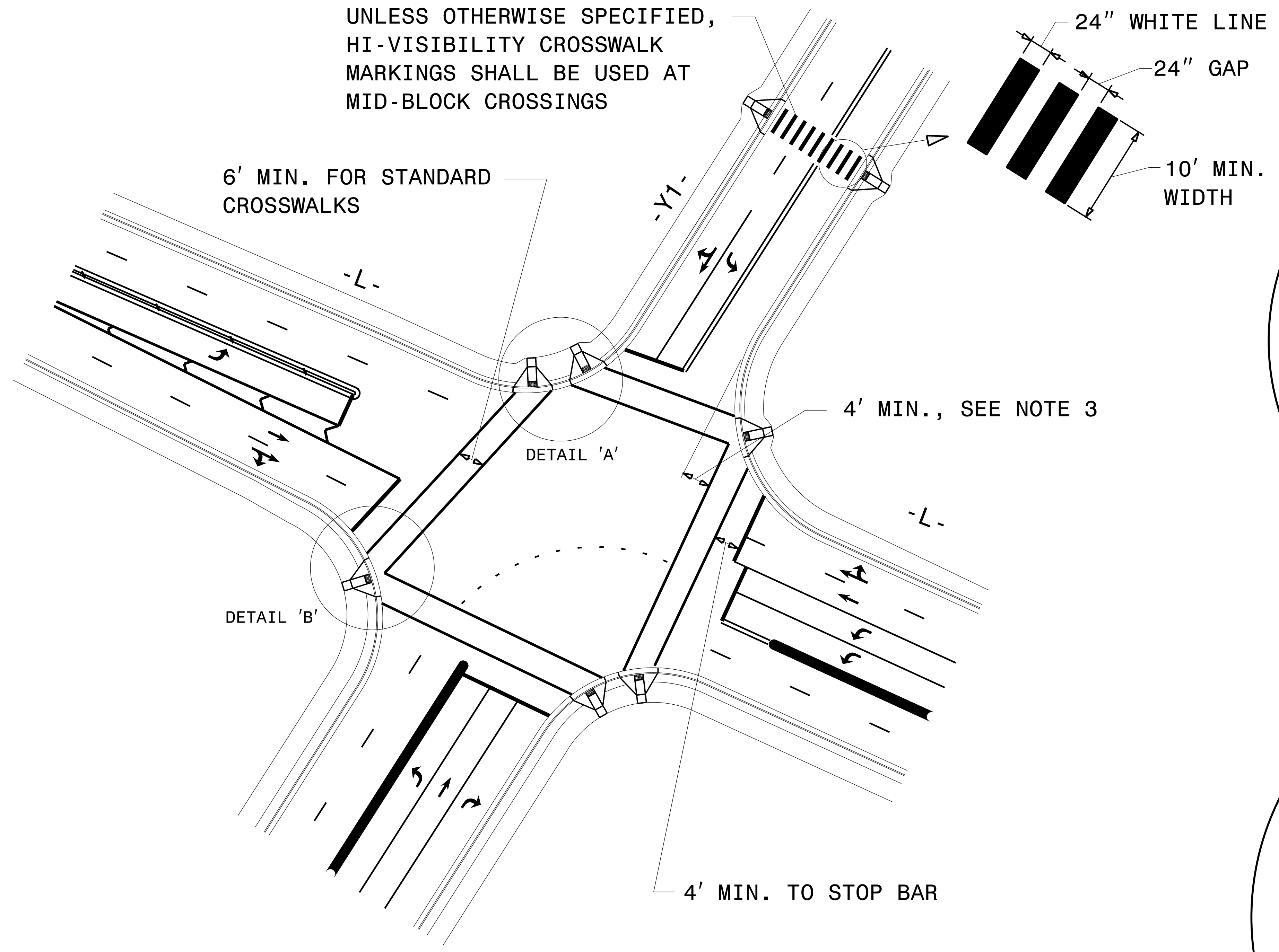
-  DB - RIGHT TURN ARROW

----- COLD APPLIED PLASTIC (12")
CU - WHITE DIAGONAL

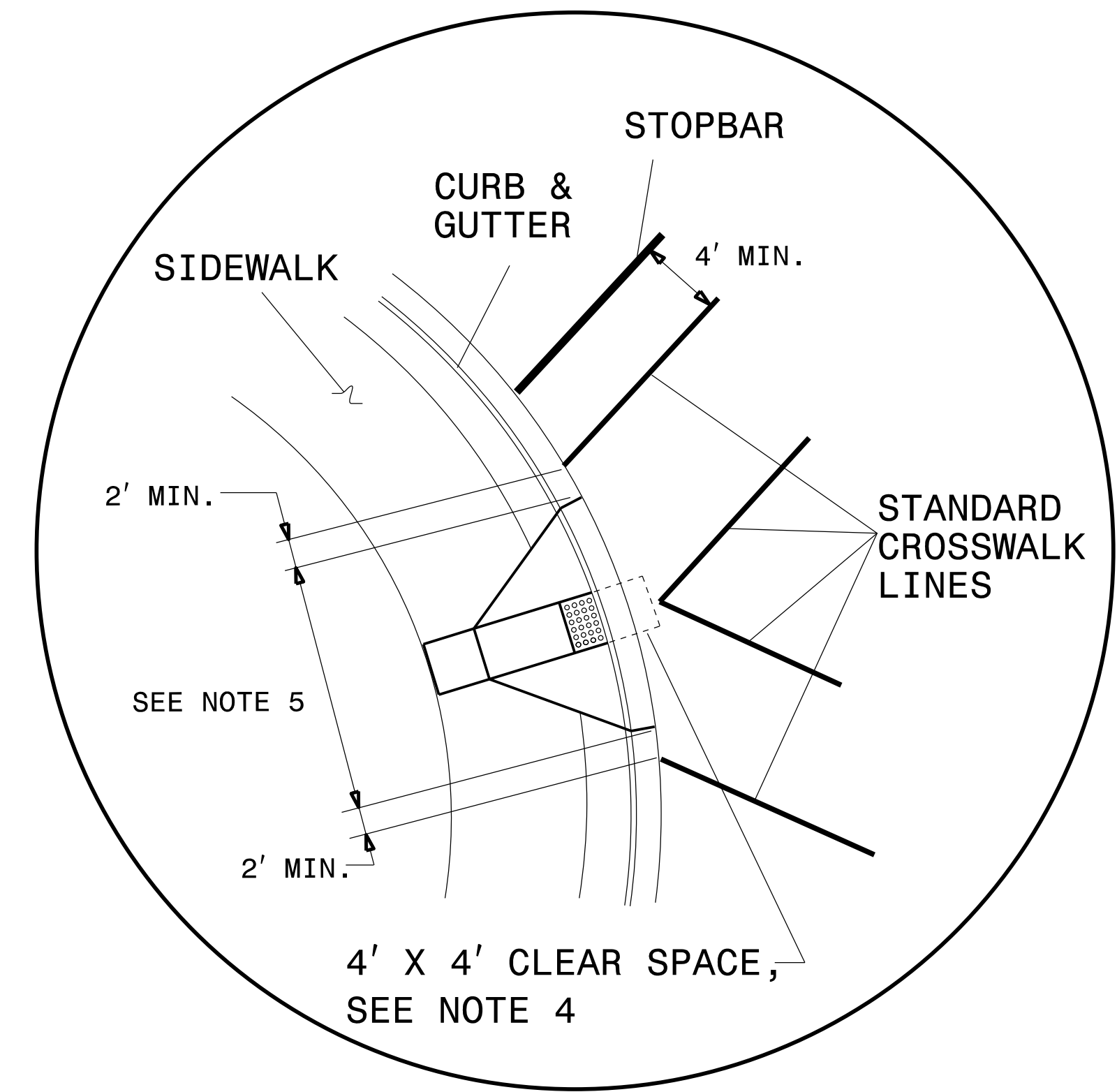
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| PROJECT REFERENCE NO. | SHEET NO. |
| U-4910A | PMP-2 |
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UNLESS OTHERWISE SPECIFIED,
HI-VISIBILITY CROSSWALK
MARKINGS SHALL BE USED AT
MID-BLOCK CROSSINGS



DETAIL 'A'- DUAL CURB RAMPS




DETAIL 'B'- SINGLE DIAGONAL CURB RAMP

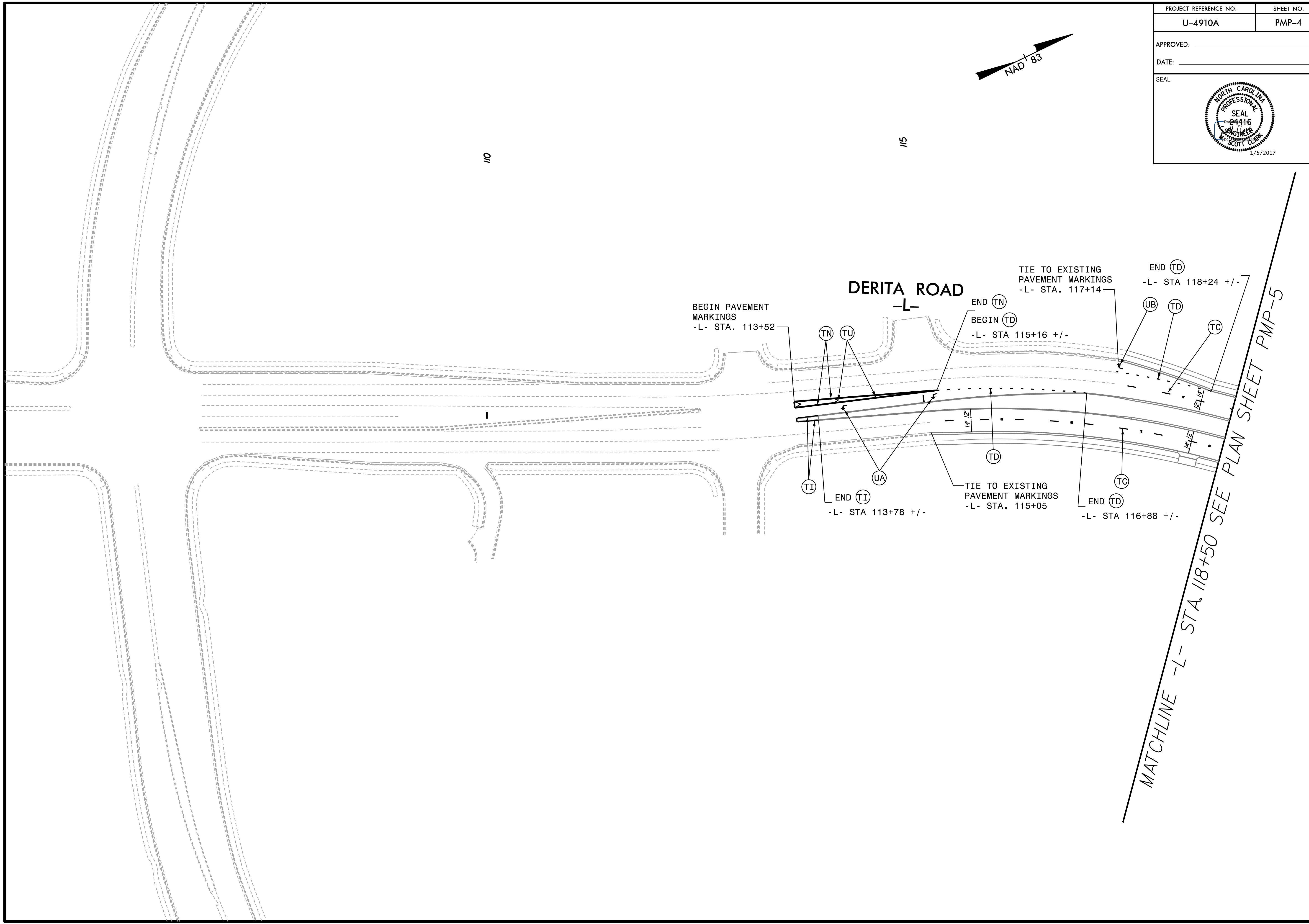
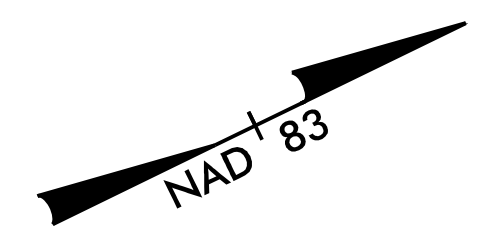
GUIDANCE DETAIL FOR CROSSWALK MARKINGS

NOTES:

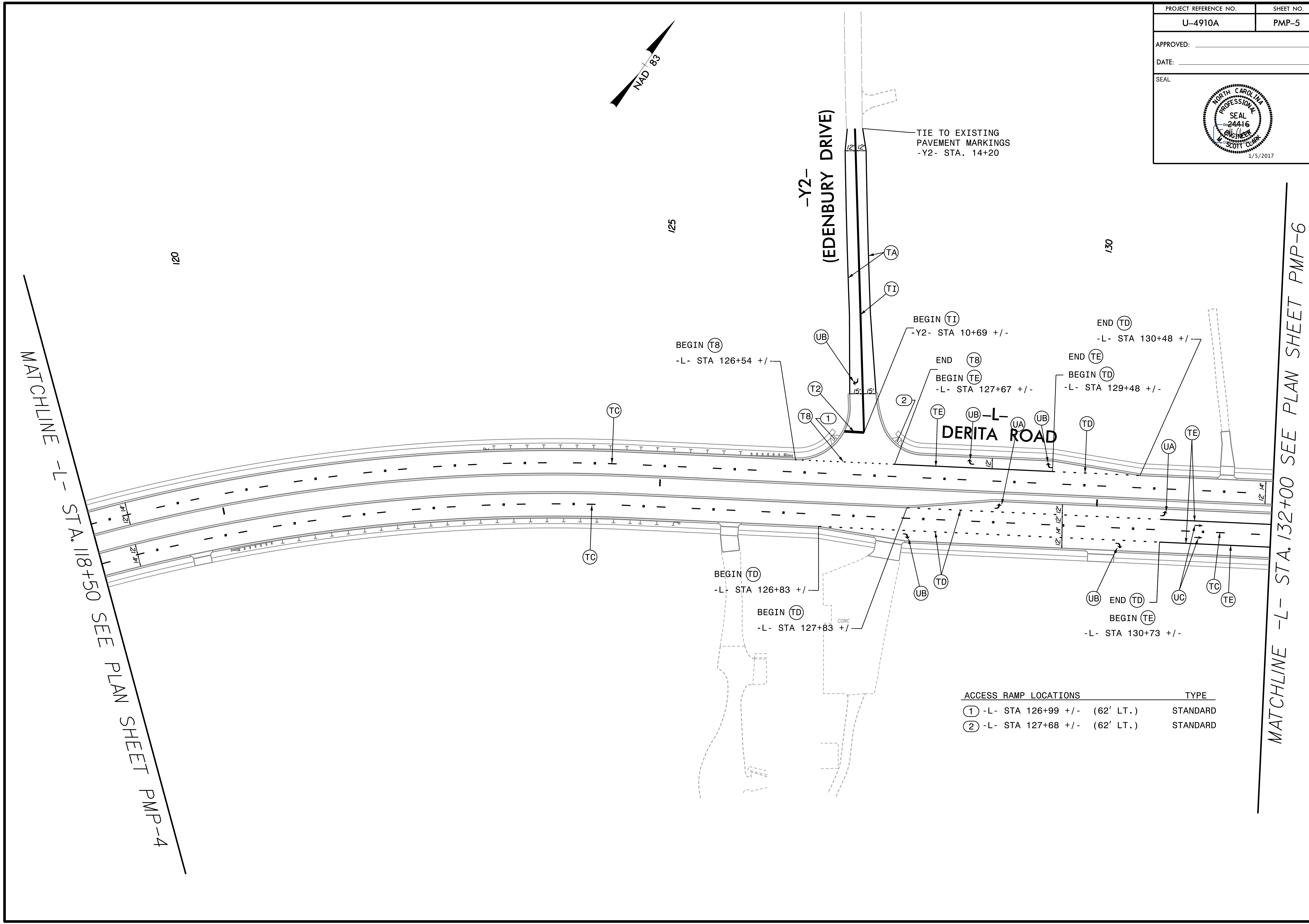
1. USE THE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALK MARKINGS NOT STATIONED ON THE DETAIL SHEETS OR WHEN FIELD ADJUSTMENTS REQUIRED MOVING STATIONED MARKINGS AS DIRECTED BY THE ENGINEER. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ADA STANDARDS FOR ADDITIONAL GUIDANCE.
2. THE CROSSWALK MARKINGS SHOWN ON THE ABOVE DETAILS ARE FOR REFERENCE ONLY. ONLY INSTALL CROSSWALK MARKINGS WHERE SHOWN ON THE DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER. THE CROSSWALK MARKING TYPE, STANDARD OR HI-VISIBILITY, SHALL BE INSTALL AS SPECIFIED ON THE DETAIL SHEETS OR AS DIRECTED BY THE ENGINEER.
3. SET BACK DISTANCE FROM INSIDE CROSSWALK MARKING TO NEAREST EDGE OF TRAVEL IS 4' MIN.
4. BEYOND THE BOTTOM GRADE BRAKE, A CLEAR SPACE OF 4' X 4' MINIMUM SHALL BE PROVIDED WITHIN THE MARKINGS.
5. SINGLE DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 2 FEET LONG MINIMUM LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING, SEE DETAIL 'B'.
6. CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE LATEST NCDOT ROADWAY STANDARD DRAWINGS.

**CROSSWALK PAVEMENT MARKING
GUIDANCE DETAIL**

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MATCHLINE -L- STA. 118+50 SEE PLAN SHEET PMP-4

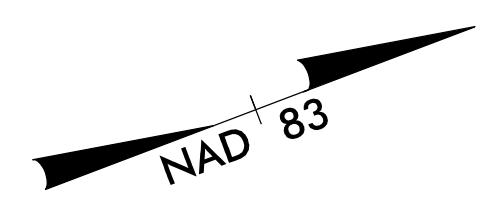
MATCHLINE -L- STA. 132+00 SEE PLAN SHEET PMP-6

| ACCESS RAMP LOCATIONS | TYPE |
|--------------------------------|----------|
| ① -L- STA 126+99 +/- (62' LT.) | STANDARD |
| ② -L- STA 127+68 +/- (62' LT.) | STANDARD |

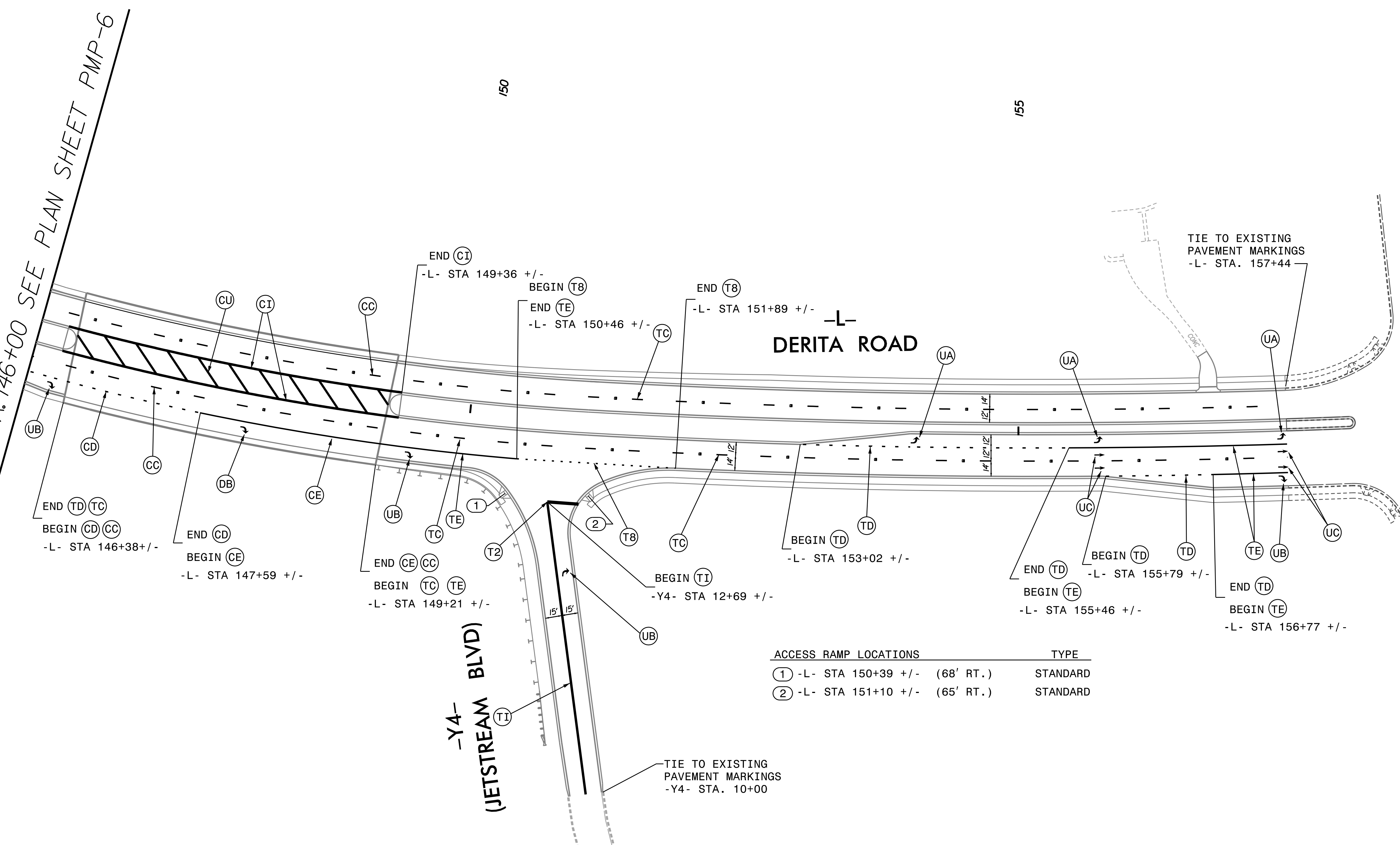
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1/5/2017




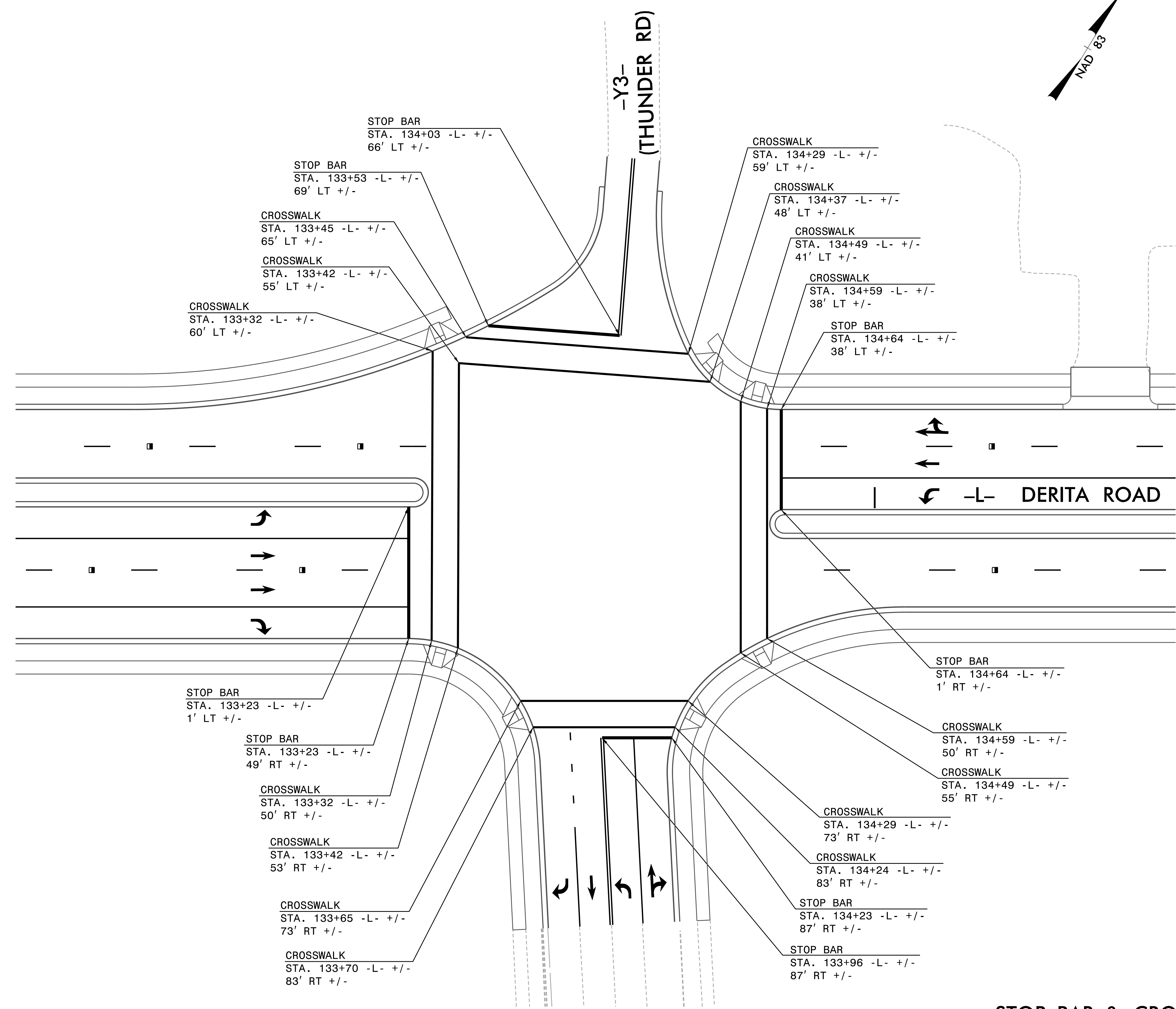
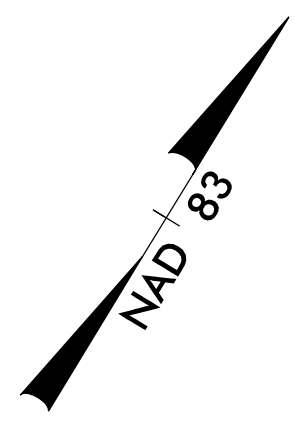
MATCHLINE -L- STA. 146+00 SEE PLAN SHEET PMP-6



| ACCESS RAMP LOCATIONS | TYPE |
|--------------------------------|----------|
| ① -L- STA 150+39 +/- (68' RT.) | STANDARD |
| ② -L- STA 151+10 +/- (65' RT.) | STANDARD |

TIE TO EXISTING PAVEMENT MARKINGS
-Y4- STA. 10+00

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STOP BAR
STA. 134+03 -L- +/-
66' LT +/-

STOP BAR
STA. 133+53 -L- +/-
69' LT +/-

CROSSWALK
STA. 133+45 -L- +/-
65' LT +/-

CROSSWALK
STA. 133+42 -L- +/-
55' LT +/-

CROSSWALK
STA. 133+32 -L- +/-
60' LT +/-

CROSSWALK
STA. 134+29 -L- +/-
59' LT +/-

CROSSWALK
STA. 134+37 -L- +/-
48' LT +/-

CROSSWALK
STA. 134+49 -L- +/-
41' LT +/-

CROSSWALK
STA. 134+59 -L- +/-
38' LT +/-

STOP BAR
STA. 134+64 -L- +/-
38' LT +/-

STOP BAR
STA. 133+23 -L- +/-
1' LT +/-

STOP BAR
STA. 133+23 -L- +/-
49' RT +/-

CROSSWALK
STA. 133+32 -L- +/-
50' RT +/-

CROSSWALK
STA. 133+42 -L- +/-
53' RT +/-

CROSSWALK
STA. 133+65 -L- +/-
73' RT +/-

CROSSWALK
STA. 133+70 -L- +/-
83' RT +/-

STOP BAR
STA. 134+64 -L- +/-
1' RT +/-

CROSSWALK
STA. 134+59 -L- +/-
50' RT +/-

CROSSWALK
STA. 134+49 -L- +/-
55' RT +/-

CROSSWALK
STA. 134+29 -L- +/-
73' RT +/-

CROSSWALK
STA. 134+24 -L- +/-
83' RT +/-

STOP BAR
STA. 134+23 -L- +/-
87' RT +/-

STOP BAR
STA. 133+96 -L- +/-
87' RT +/-

**STOP BAR & CROSSWALK LOCATIONS
FOR SIGNALIZED INTERSECTIONS**