

**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**


**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
MECKLENBURG COUNTY

TIP NO. U-5008	SHEET NO. PMP-1
APPROVED: <i>Joseph B. Kopaskie</i> PC02EAEF80A4FA..	
DATE: 2/13/2015	
SEAL	



INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2A	CITY OF CHARLOTTE CROSSWALK PAVEMENT MARKING GUIDANCE DETAIL
PMP-2B	NCDOT CROSSWALK PAVEMENT MARKING GUIDANCE DETAIL
PMP-3-9	PAVEMENT MARKING DETAIL

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	PERMANENT RAISED
SUGAR CREEK RD (BRIDGE)	COLD APPLIED PLASTIC	PERMANENT 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) 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.

PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	
T2	WHITE STOPBAR	THERMOPLASTIC(24", 120 MILS)
CC CI	10 FT. WHITE SKIP YELLOW DOUBLE CENTER	COLD APPLIED PLASTIC(4")
T8 TC TD TE TI	2 FT. - 6 FT./SP WHITE MINISKIP 10 FT. WHITE SKIP 3 FT. - 9 FT./SP WHITE MINISKIP WHITE SOLID LANE LINE YELLOW DOUBLE CENTER	THERMOPLASTIC(4", 120 MILS)
TA TB	WHITE EDGELINE YELLOW EDGELINE	THERMOPLASTIC(4", 90 MILS)
CL	WHITE SOLID LANE LINE	COLD APPLIED PLASTIC(6")
T11 TL	2 FT. - 6 FT./SP WHITE MINISKIP WHITE SOLID LANE LINE	THERMOPLASTIC(6", 120 MILS)
TQ TR	WHITE CROSSWALK LINE WHITE SOLID LANE LINE	THERMOPLASTIC(8", 120 MILS)
TN TP	WHITE GORELINE YELLOW DIAGONAL	THERMOPLASTIC(8", 90 MILS)
DJ DK	BICYCLE SYMBOL BICYCLE STRAIGHT ARROW	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL
UA UB UC UE UJ UK UN	LEFT TURN ARROW RIGHT TURN ARROW STRAIGHT ARROW COMBO. STRAIGHT/RIGHT BICYCLE SYMBOL BICYCLE STRAIGHT ARROW 24" YIELD LINE TRIANGLE	THERMOPLASTIC PAVEMENT MARKING SYMBOLS (90 MILS)
MA MB	YELLOW & YELLOW CRYSTAL & RED	PERMANENT RAISED PAVEMENT MARKERS

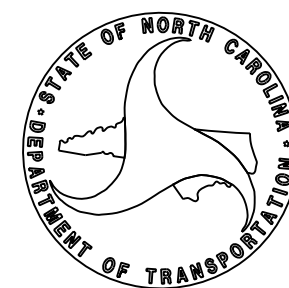
ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 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
1205.08	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
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 REVIEWED BY: N.C.D.O.T. SIGNING AND DELINEATION UNIT

KELVIN L. JORDAN SIGNING & DELINEATION STANDARDS ENGINEER
MATTHEW TRACEY, EI SIGNING & DELINEATION PROJECT DESIGN ENGINEER

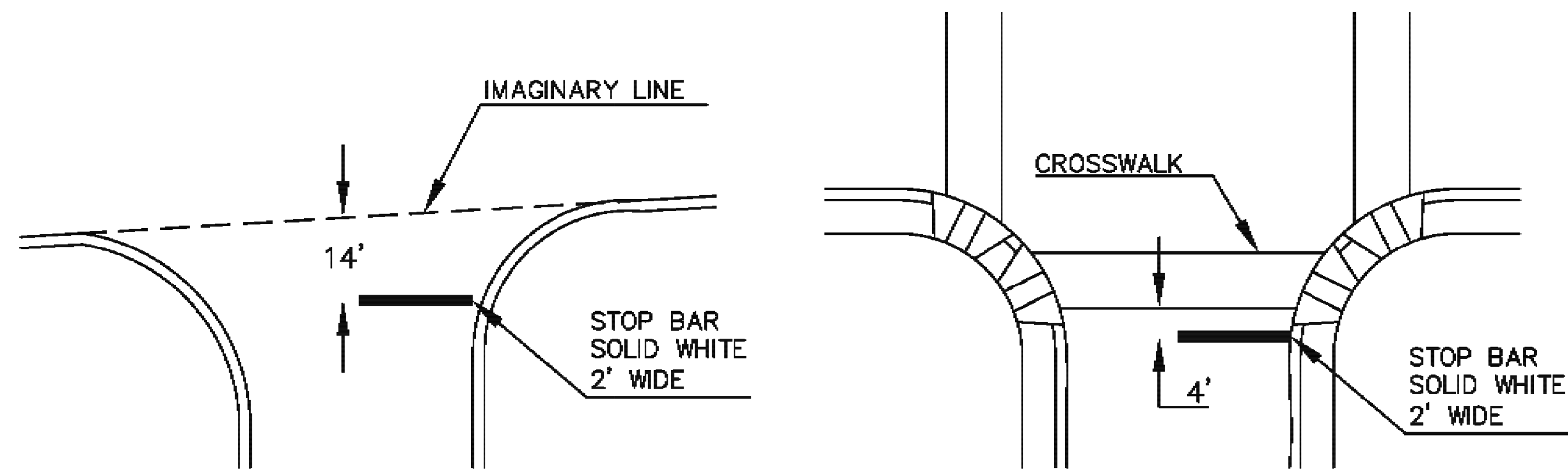


PLAN PREPARED BY: SEPI ENGINEERING & CONSTRUCTION

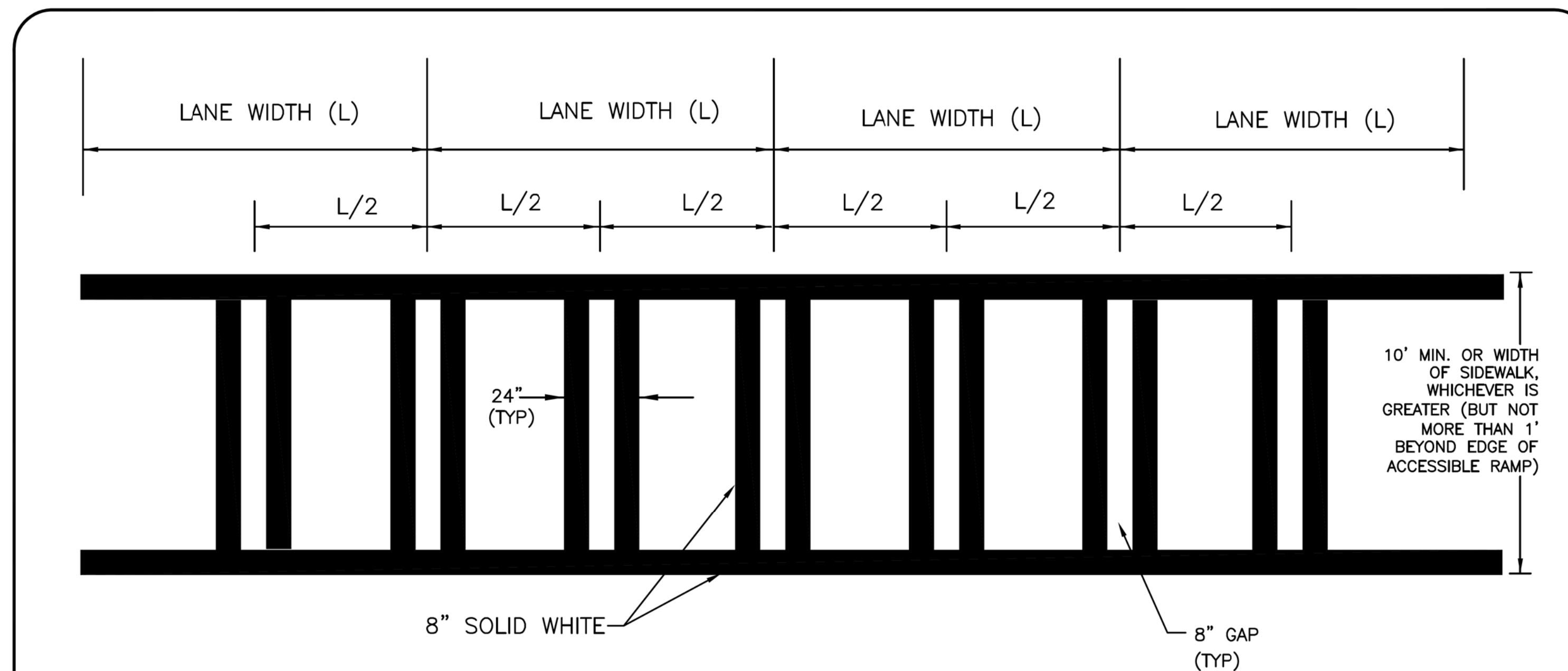
JOSEPH B. KOPASKIE, PE TRANSPORTATION ENGINEER
RICHARD DRAYTON TRANSPORTATION DESIGN ENGINEER



STOP BARS: A STOP BAR SHALL BE SOLID WHITE AND 24" IN WIDTH. WHEN INSTALLED, A STOP BAR SHOULD BE PLACED A MINIMUM OF 14' FROM THE EDGE OF THE CROSSING ROAD. IF CROSSWALKS ARE PRESENT, THE STOP BAR SHALL BE A MINIMUM OF 4' IN ADVANCE OF THE NEAREST CROSSWALK LINE. A STOP BAR SHOULD BE INSTALLED PERPENDICULAR TO THE LEG OF THE INTERSECTION IT IS BEING INSTALLED ON.

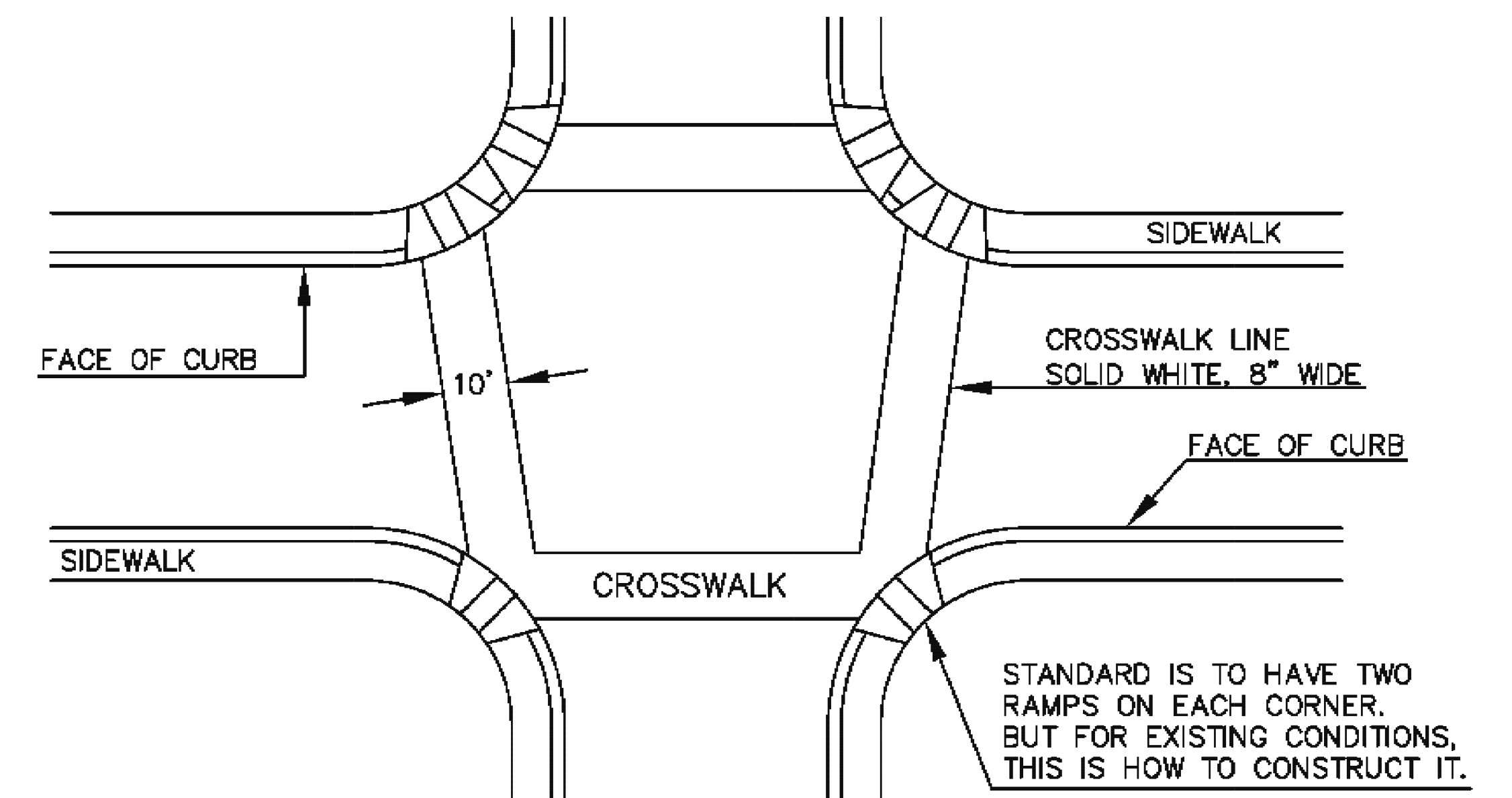


CROSS WALK: CROSSWALKS SHOULD PROVIDE DIRECT AND UNOBSTRUCTED CONNECTION BETWEEN ACCESSIBLE RAMPS. CROSSWALK LINES SHALL BE SOLID WHITE AND 8" IN WIDTH. THE CROSSWALK WIDTH SHOULD BE 10' WIDE UNLESS OTHERWISE SPECIFIED ON THE PLAN. THE CROSSWALK WIDTH SHALL NOT BE LESS THAN 6'. CROSSWALK LINES NEAREST TO THE CENTER OF THE INTERSECTION ALONG A SPECIFIC STREET SHOULD, WHENEVER POSSIBLE, EXTEND FROM FACE OF CURB TO FACE OF CURB ACROSS THE INTERSECTING ROAD.

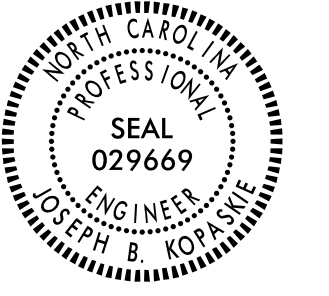


NOTES:

1. PER MUTCD STANDARDS, WHEN CROSSWALK LINES ARE USED THEY SHALL CONSIST OF SOLID WHITE LINES THAT MARK THE CROSSWALK. THEY SHALL BE NOT LESS THAN 150 MM (6 IN) NOR GREATER THAN 600 MM (24 IN) IN WIDTH.
2. IF TRANSVERSE LINES ARE USED TO MARK A CROSSWALK, THE GAP BETWEEN THE LINES SHOULD NOT BE LESS THAN 1.8 M (6 FT). IF DIAGONAL OR LONGITUDINAL LINES ARE USED WITHOUT TRANSVERSE LINES TO MARK A CROSSWALK, THE CROSSWALK SHOULD NOT BE LESS THAN 1.8 M (6 FT) WIDE.
3. IF USED, THE DIAGONAL OR LONGITUDINAL LINES SHOULD BE 300 TO 600 MM (12 TO 24 IN) WIDE AND SPACED 300 TO 1500 MM (12 TO 60 IN) APART. THE MARKING DESIGN SHOULD AVOID THE WHEEL PATHS, AND THE SPACING SHOULD NOT EXCEED 2.5 TIMES THE LINE WIDTH.

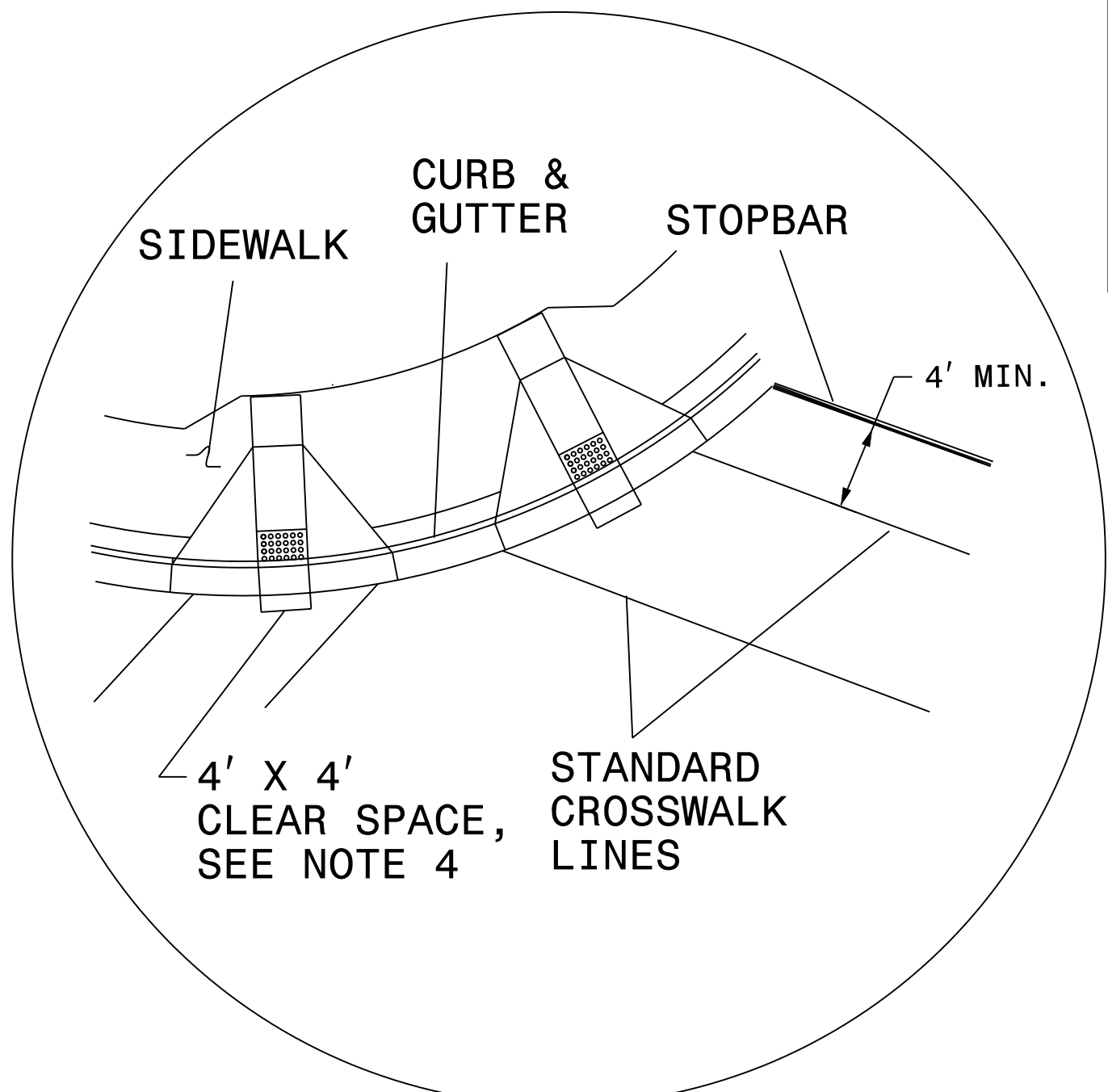
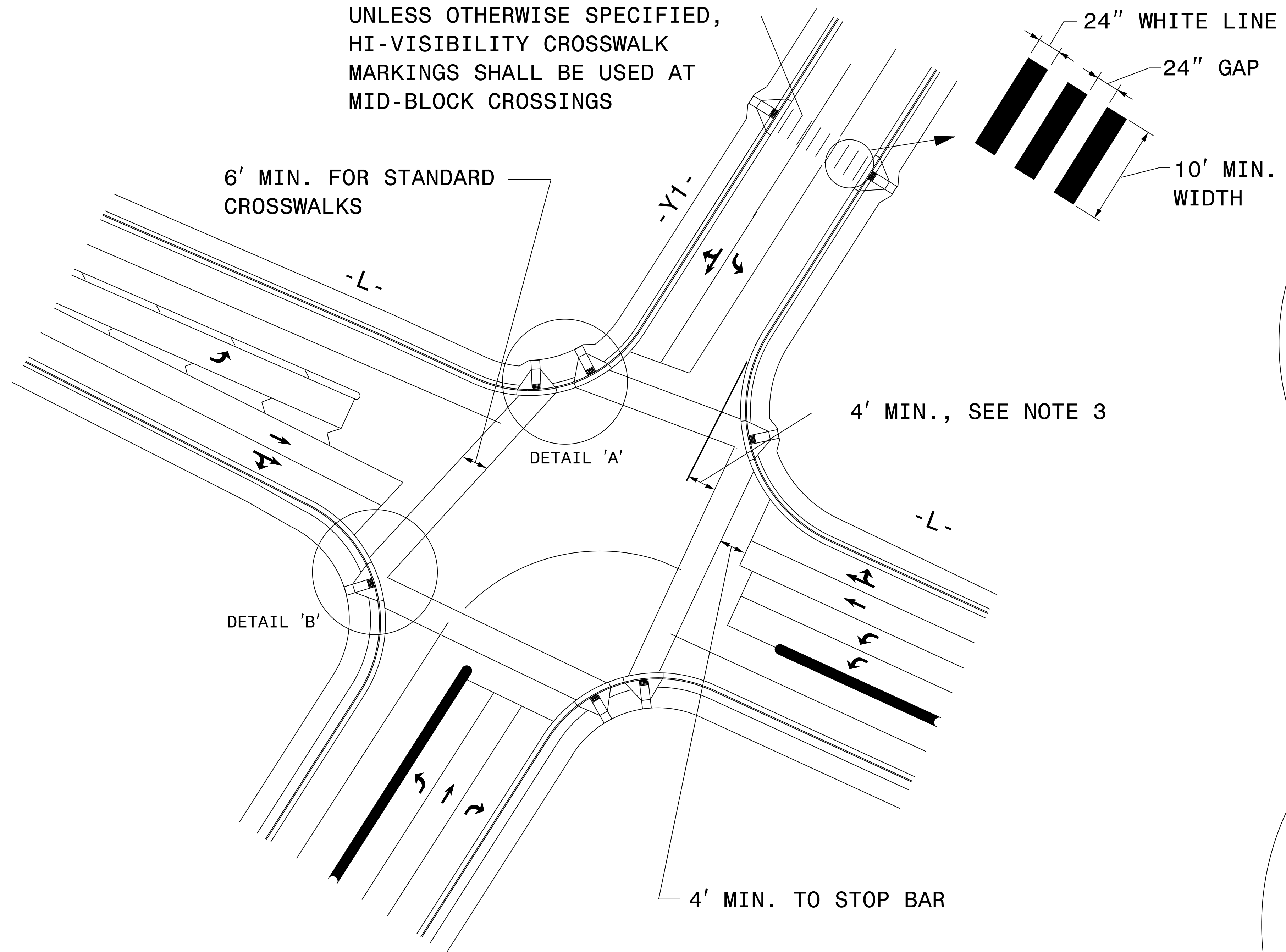


TIP NO.	SHEET NO.
U-5008	PMP-2A
APPROVED: <i>Joseph B. Kopaske</i>	
DATE: 2/13/2015	
SEAL	

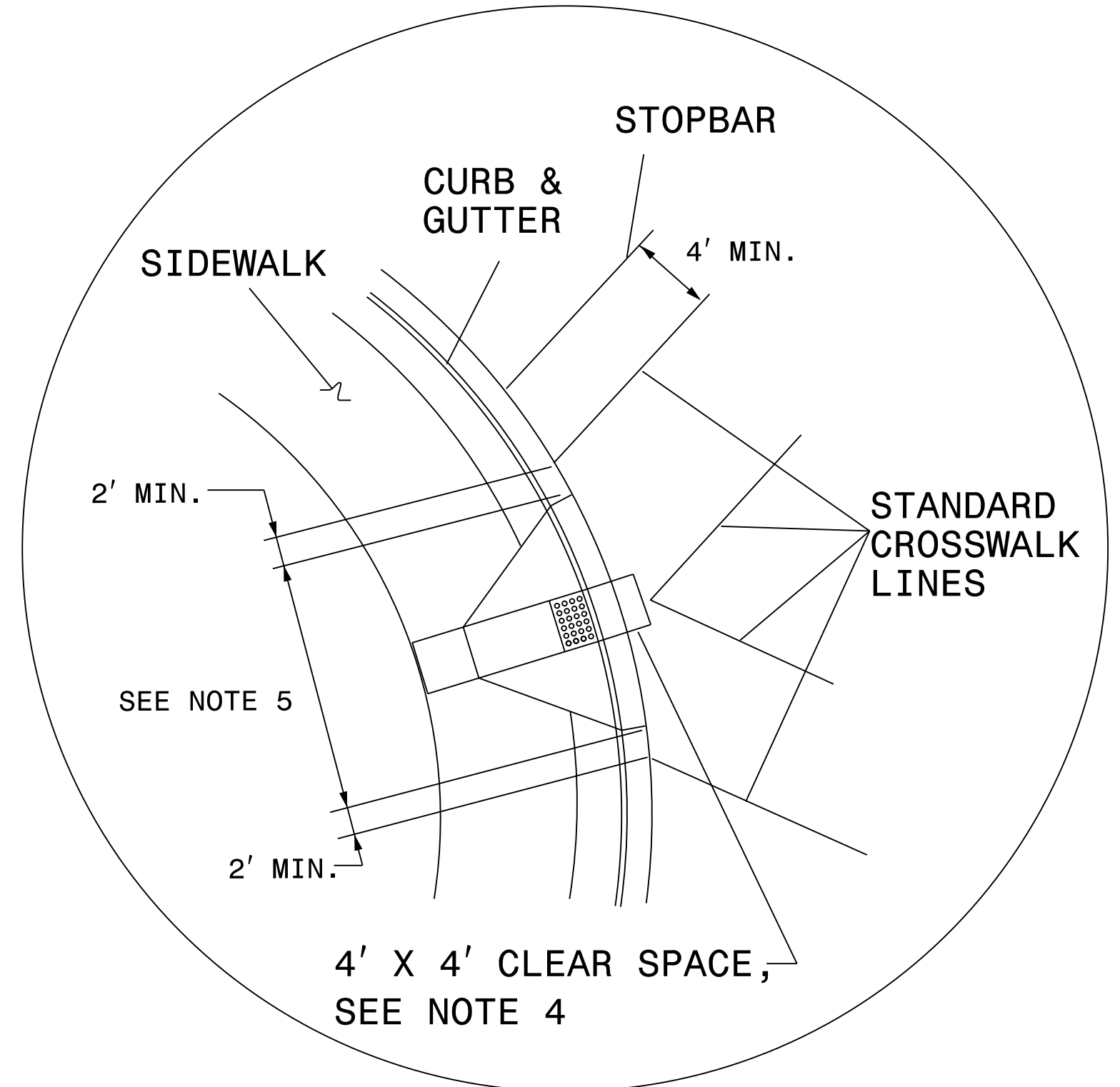




UNLESS OTHERWISE SPECIFIED,
HI-VISIBILITY CROSSWALK
MARKINGS SHALL BE USED AT
MID-BLOCK CROSSINGS



DETAIL 'A'- DUAL CURB RAMPS

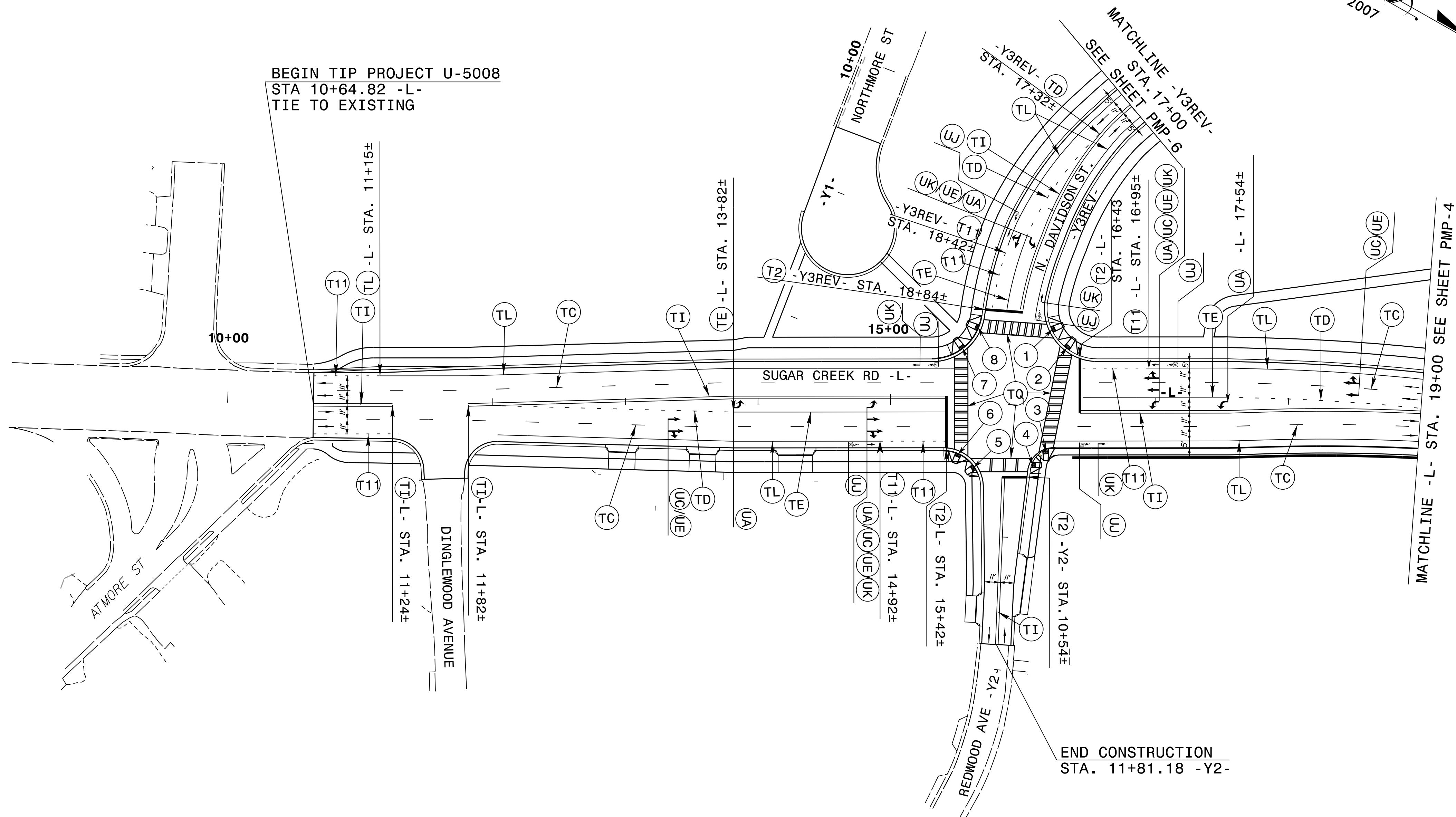
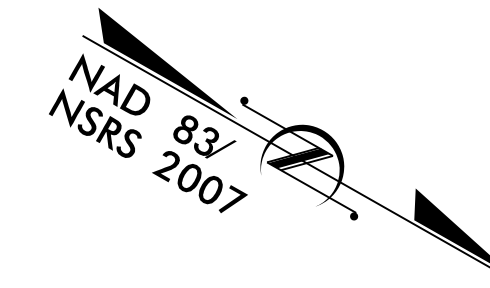


DETAIL 'B'- SINGLE DIAGONAL CURB RAMP

GUIDANCE DETAIL FOR CROSSWALK MARKINGS

NOTES:

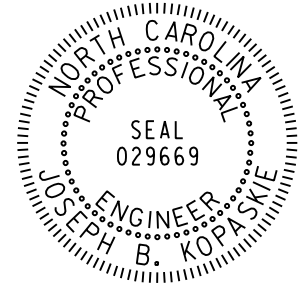
1. USE THE DETAILS ABOVE AND THE FOLLOWING NOTES FOR GUIDANCE IN PLACING CROSSWALK MARKINGS NOT STATIONED ON THE DETAIL SHEETS OR WHEN FIELD ADJUSTMENTS REQUIRED MOVING STATIONED MARKINGS AS DIRECTED BY THE ENGINEER. REFER TO NCDOT ROADWAY STANDARD DRAWINGS, MUTCD AND ADA STANDARDS FOR ADDITIONAL GUIDANCE.
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.

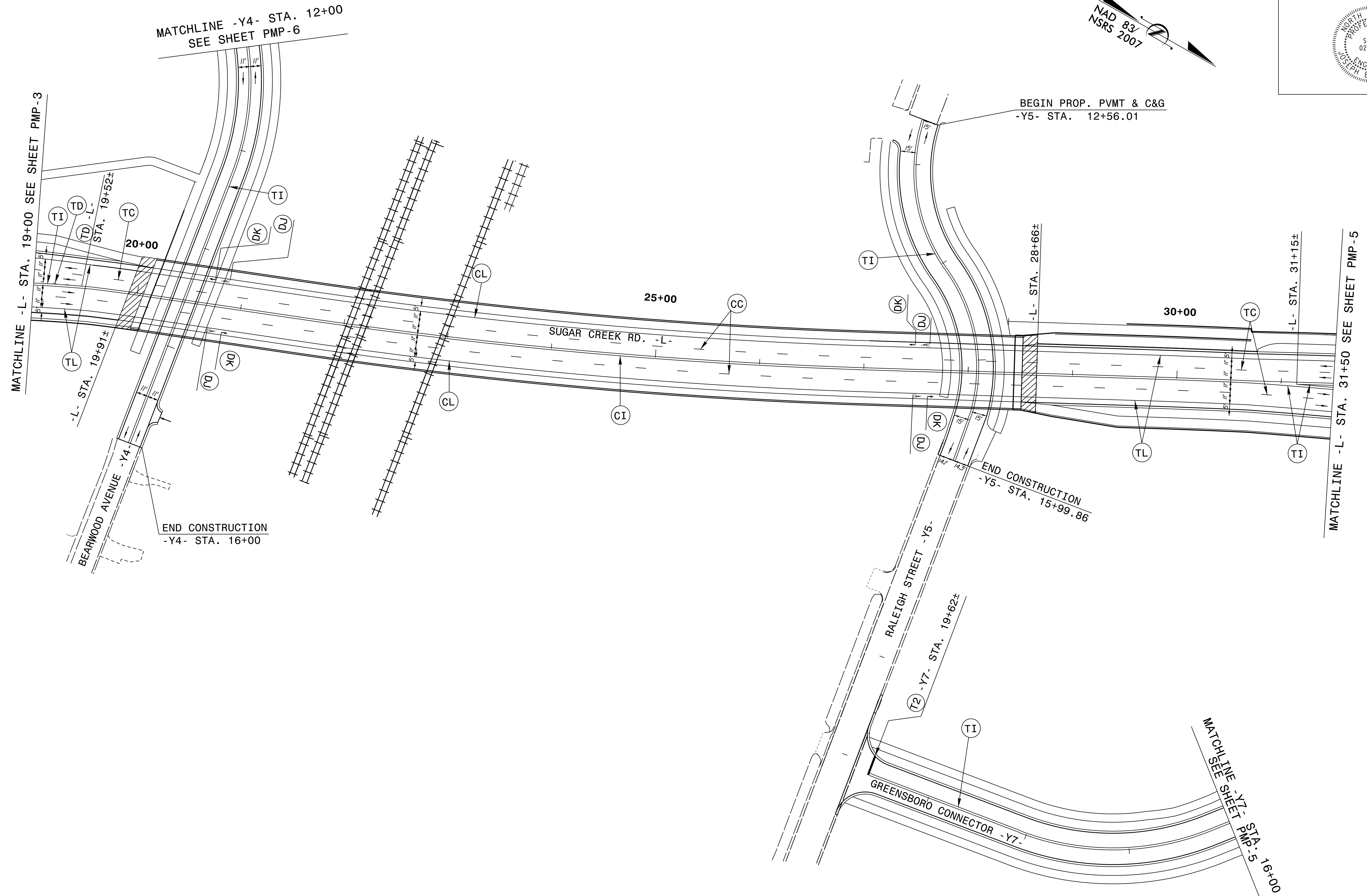
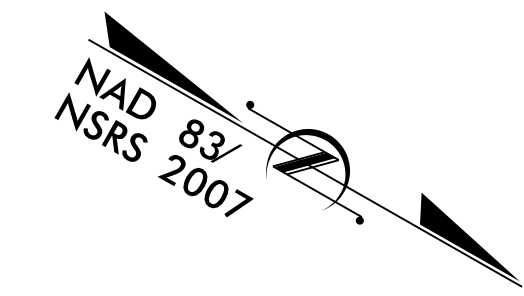


CURB RAMPS

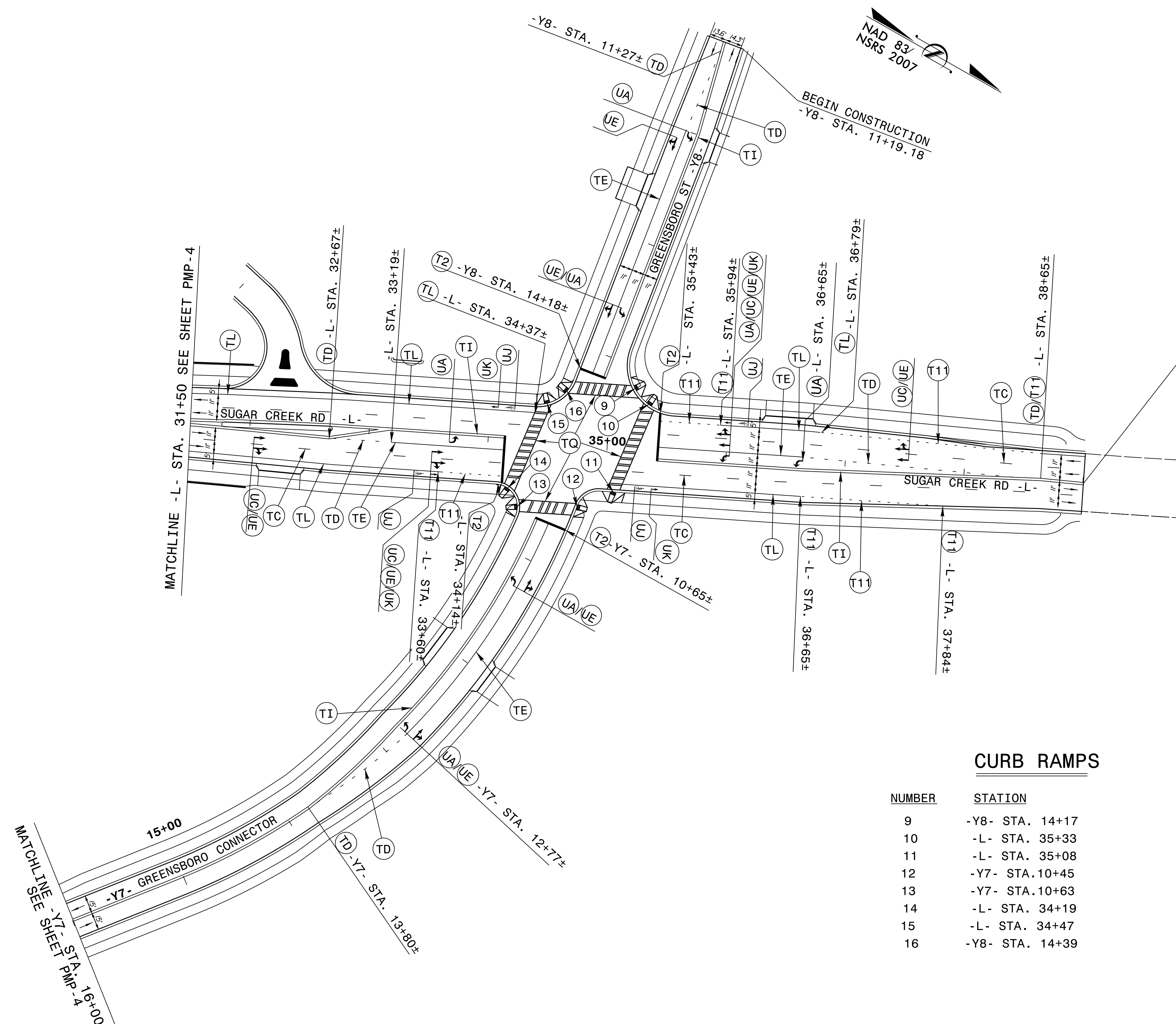
NUMBER	STATION	CR TYPE
1	-Y3REV- 18+93	4A
2	-L- STA. 16+33	4A
3	-L- STA. 16+17	4A
4	-Y2- STA. 10+45	4A
5	-Y2- STA. 10+49	4A
6	-L- STA. 15+51	4A
7	-L- STA. 15+54	4A
8	-Y3REV- STA. 18+97	4A

PROPOSED PAVEMENT MARKING DETAIL

TIP NO. U-5008	SHEET NO. PMP-4
APPROVED: <i>Joseph B. Kopasick</i> <small>DocuSigned by: Joseph B. Kopasick 8C0DEAE6F80A54FA</small>	
DATE: 2/13/2015	
SEAL	
	



**PROPOSED PAVEMENT
 MARKING DETAIL**

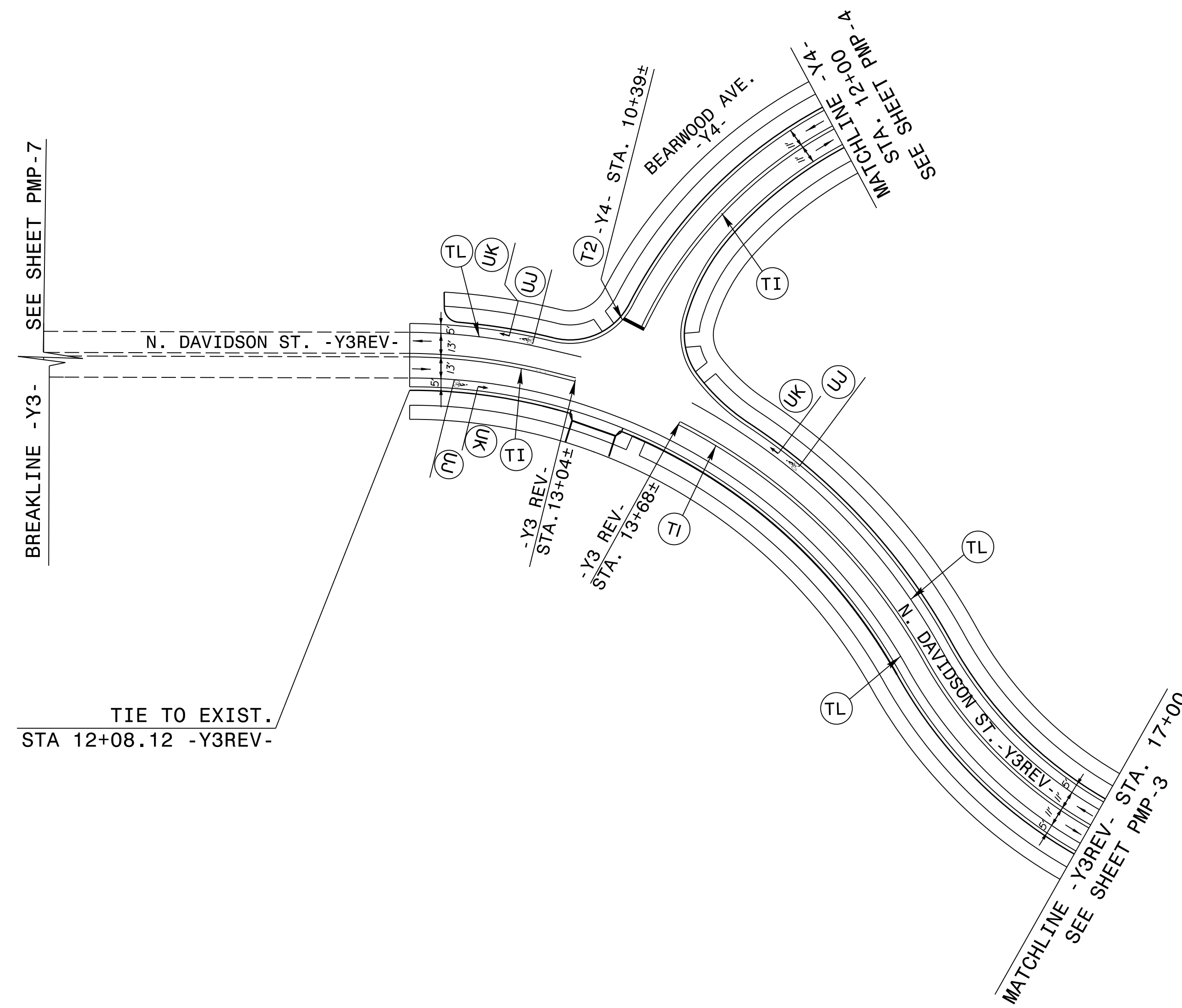
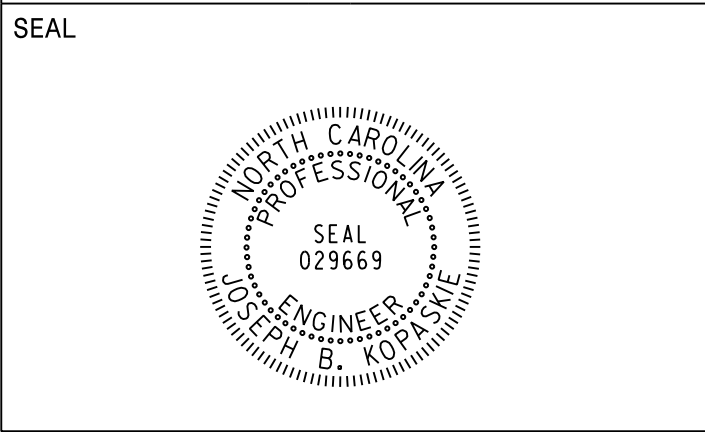


END TIP PROJECT U-5008
STA 39+00.43 -L-
TIE TO EXISTING

CURB RAMPS

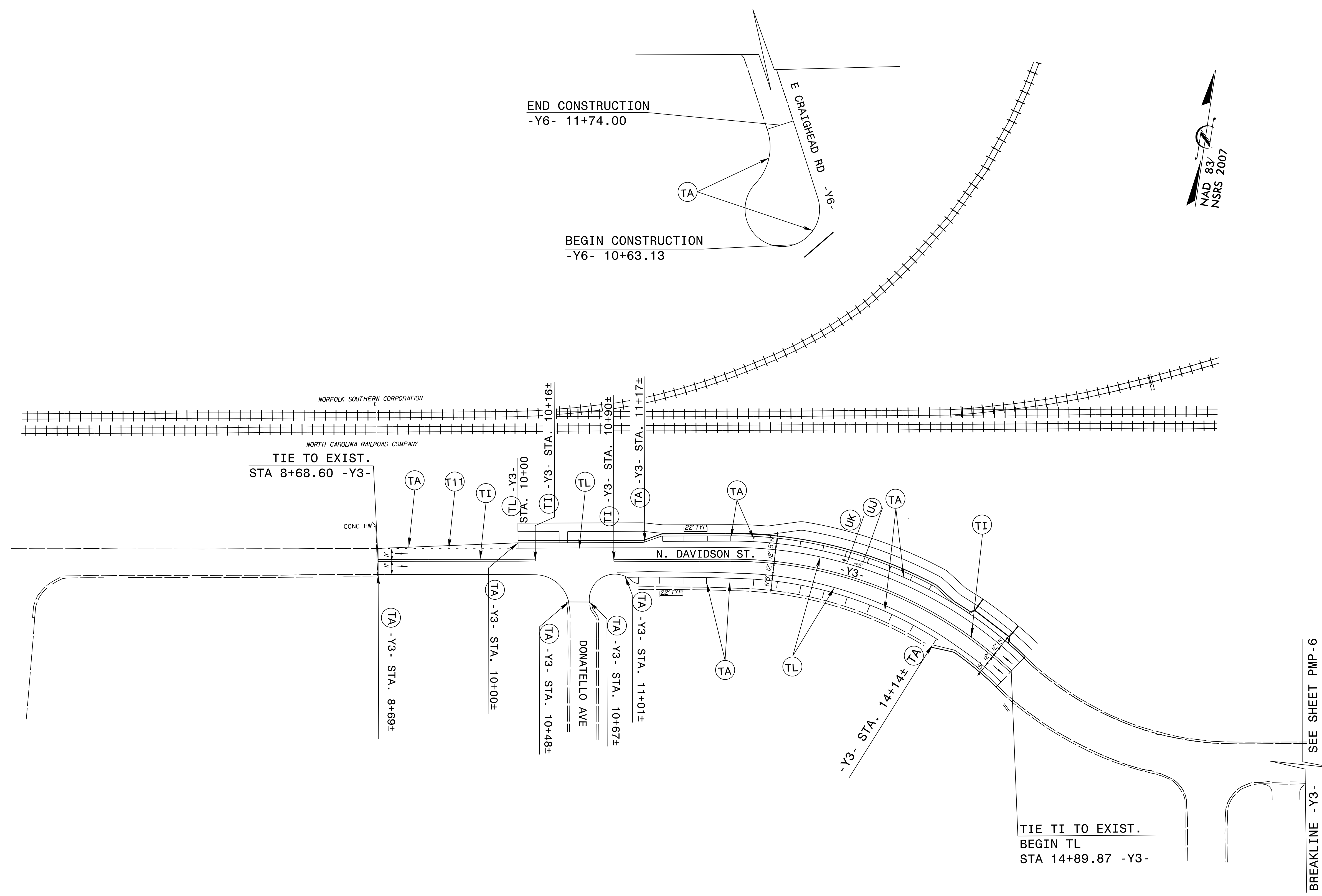
NUMBER	STATION	TYPE
9	-Y8- STA. 14+17	4A
10	-L- STA. 35+33	4A
11	-L- STA. 35+08	3
12	-Y7- STA. 10+45	3
13	-Y7- STA. 10+63	4A
14	-L- STA. 34+19	4A
15	-L- STA. 34+47	4A
16	-Y8- STA. 14+39	4A

PROPOSED PAVEMENT MARKING DETAIL



PROPOSED PAVEMENT MARKING DETAIL

TIP NO. U-5008	SHEET NO. PMP-7
APPROVED: <i>Joseph B. Kopaskie</i> RCDREAER0454FA	
DATE: 2/13/2015	
SEAL	



TIE TI TO EXIST.
BEGIN TL
STA 14+89.87 -Y3-

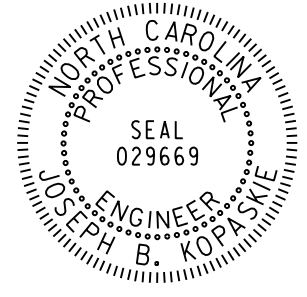
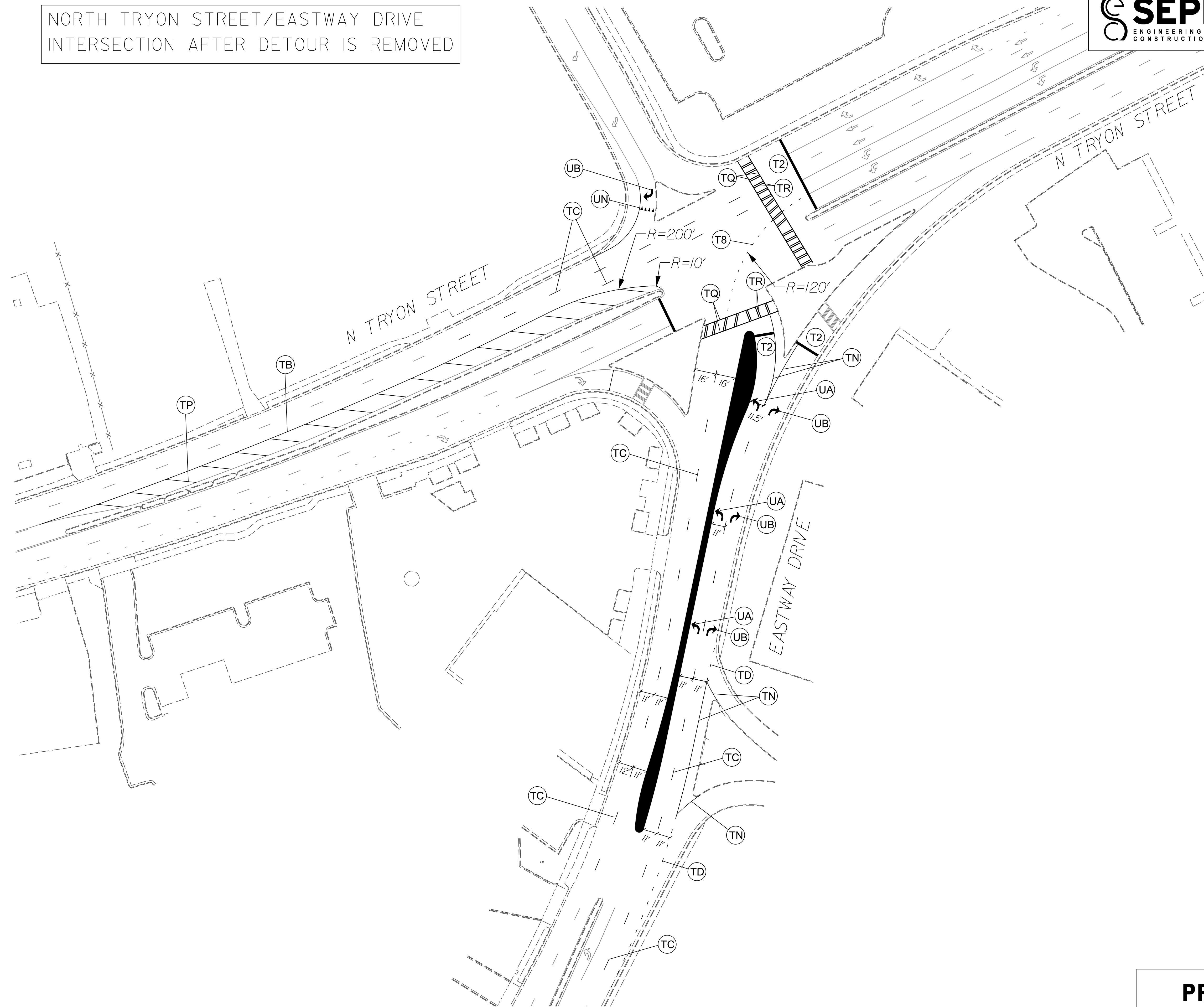
SEE SHEET PMP-6
BREAKLINE -Y3-

PROPOSED PAVEMENT MARKING DETAIL

NORTH TRYON STREET/EASTWAY DRIVE INTERSECTION AFTER DETOUR IS REMOVED

SEPI
ENGINEERING & CONSTRUCTION
1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

TIP NO. U-5008	SHEET NO. PMP-8
APPROVED: <i>Joseph Kapaskie</i> -ICDREAF80454FA-	
DATE: 3/12/2015	
SEAL	

PROPOSED PAVEMENT MARKING DETAIL

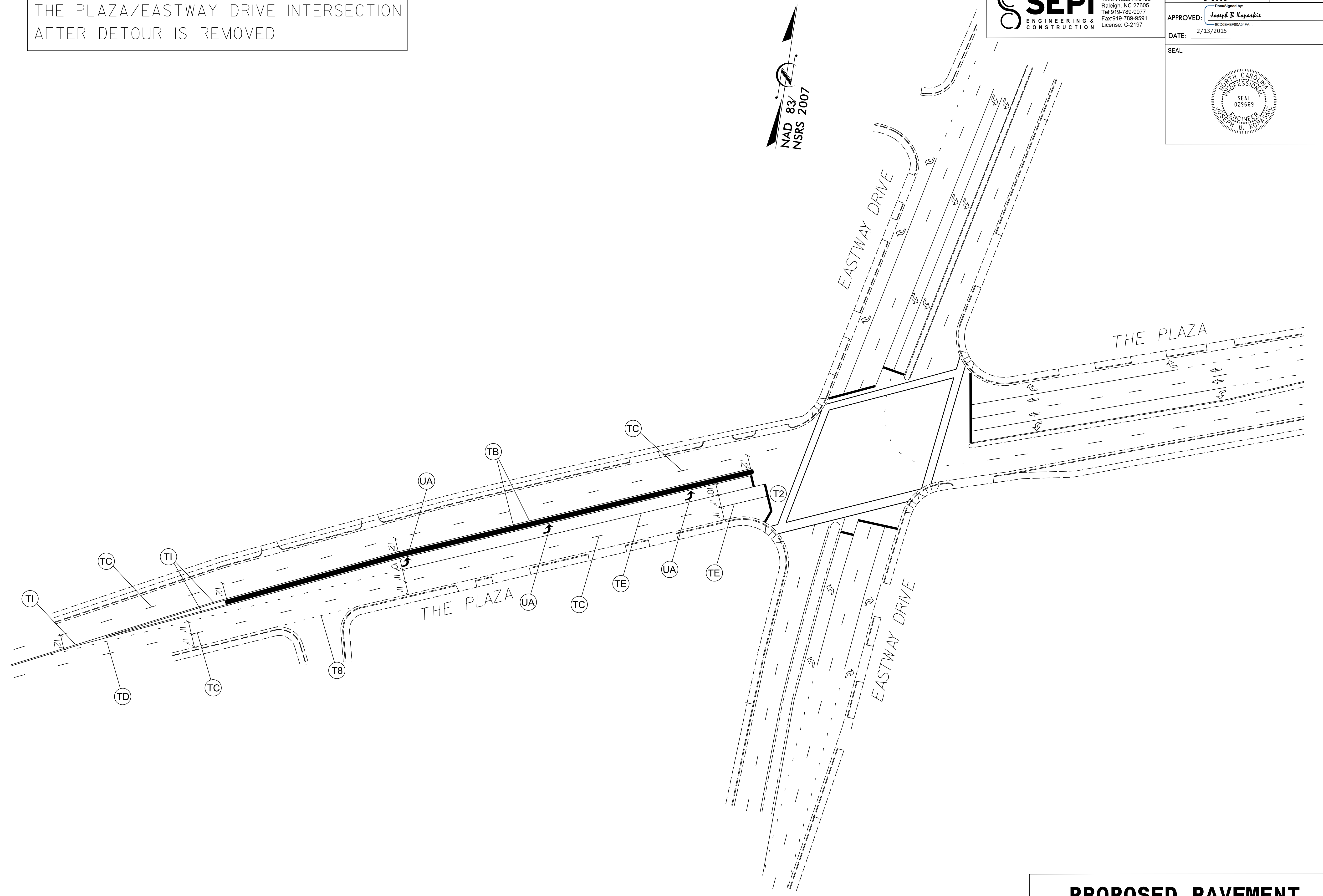
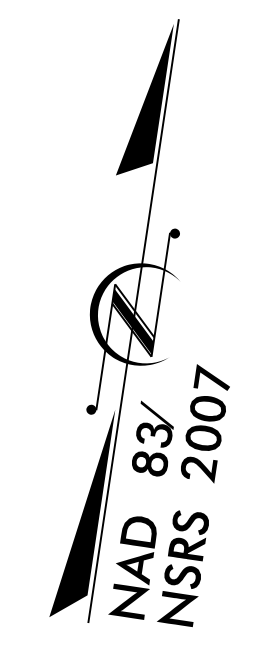
0400DEL_P30

THE PLAZA/EASTWAY DRIVE INTERSECTION
AFTER DETOUR IS REMOVED

SEPI
ENGINEERING &
CONSTRUCTION

1025 Wade Avenue
Raleigh, NC 27605
Tel: 919-789-9977
Fax: 919-789-9591
License: C-2197

TIP NO.	SHEET NO.
U-5008	PMP-9
APPROVED: <i>Joseph B. Kopaschie</i>	
DATE: 2/13/2015	
SEAL	



**PROPOSED PAVEMENT
MARKING DETAIL**

\$\$\$\$\$
 SYSTEMS
 DESIGN
 USER NAME
 \$\$\$\$\$