


PROJECT NO. 17BP.14.R.212	SHEET NO. PMP-1
APPROVED: <i>Ron King</i>	
DATE: 3/7/2022	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
JACKSON COUNTY**

**LOCATION: SR 1336 (MONTEITH GAP ROAD) FROM NORTH OF
SR 1002 (OLD CULLOWHEE ROAD) TO NORTH OF
SR 1337 (LEDBETTER ROAD)**

STATE PROJECT: 17BP.14.R.212

CONTRACT: C204715

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 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 (SHEET 1 OF 2 ONLY. SEE PMP-1A FOR REVISED SHEET 2 OF 2)
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 (SEE PMP-1B FOR REVISED RSD 1205.12)
1205.14	PAVEMENT MARKINGS - ROUNDABOUTS
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
1264.01	OBJECT MARKERS - TYPES
1264.02	OBJECT MARKERS - INSTALLATION

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE, GENERAL NOTES, ROADWAY STANDARD DRAWINGS, INDEX, AND PAVEMENT MARKING SCHEDULE
PMP-1A	REVISED RSD 1205.04, SHEET 2 OF 2
PMP-1B	REVISED RSD 1205.12
PMP-1C	HI-VISIBILITY CROSS WALK, NO-TRACK GUIDANCE
PMP-2 AND PMP-3	PAVEMENT MARKING DETAILS

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	NON-CAST IRON SNOWPLOWABLE (PERMANENT RAISED ON BRIDGE DECKS)

- 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) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING THERMOPLASTIC PAVEMENT MARKING MATERIAL.
- 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) ALL BICYCLE LANE SYMBOLS SHALL BE HEATED-IN-PLACE THERMOPLASTIC. SYMBOLS SHALL BE PAID FOR USING THE HEATED-IN-PLACE PAY ITEM.

PAVEMENT MARKING SCHEDULE

T1	THERMOPLASTIC 4" WHITE EDGELINE (90 MIL)	T90	HEATED-IN-PLACE THERMOPLASTIC BICYCLE SYMBOL (90 MIL)
T5	THERMOPLASTIC 4" 2'-6"/SP. WHITE MINI-SKIP (90 MIL)	T91	HEATED-IN-PLACE THERMOPLASTIC BICYCLE STRAIGHT ARROW (90 MIL)
T10	THERMOPLASTIC 4" YELLOW EDGELINE (90 MIL)	T103	THERMOPLASTIC 24" YIELD LINE TRIANGLE (90 MIL)
T13	THERMOPLASTIC 4" YELLOW DOUBLE CENTER (90 MIL)	MA	PERMANENT RAISED MARKER - YELLOW & YELLOW
T21	THERMOPLASTIC 6" WHITE SOLID LANE LINE (90 MIL)	ME	SNOWPLOWABLE MARKER - YELLOW & YELLOW
T40	THERMOPLASTIC 8" WHITE GORELINE (90 MIL)	MF	SNOWPLOWABLE MARKER - CRYSTAL & RED
T45	THERMOPLASTIC 8" 3'-3"/SP. WHITE MINISKIP (90 MIL)		
T46	THERMOPLASTIC 8" WHITE CROSSWALK LINE (90 MIL)		
T61	THERMOPLASTIC 24" WHITE STOPBAR (90 MIL)		
T62	THERMOPLASTIC 24" WHITE CROSSWALK LINE (90 MIL)		

PLAN REVIEWED BY:

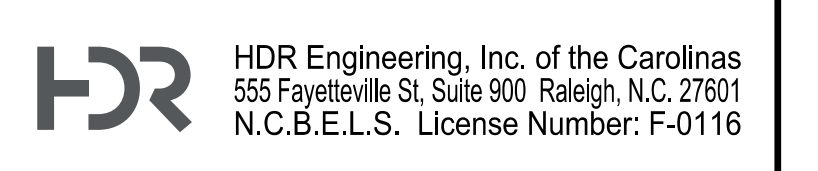
RACHEL MARSHAUS _____ SIGNING & DELINEATION STANDARDS ENGINEER

_____ SIGNING & DELINEATION PROJECT DESIGN ENGINEER


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

RON KING, P.E. _____ SIGNING & DELINEATION PROJECT DESIGN ENGINEER

CHRIS HARNDEN _____ SIGNING & DELINEATION PROJECT DESIGN TECHNICIAN



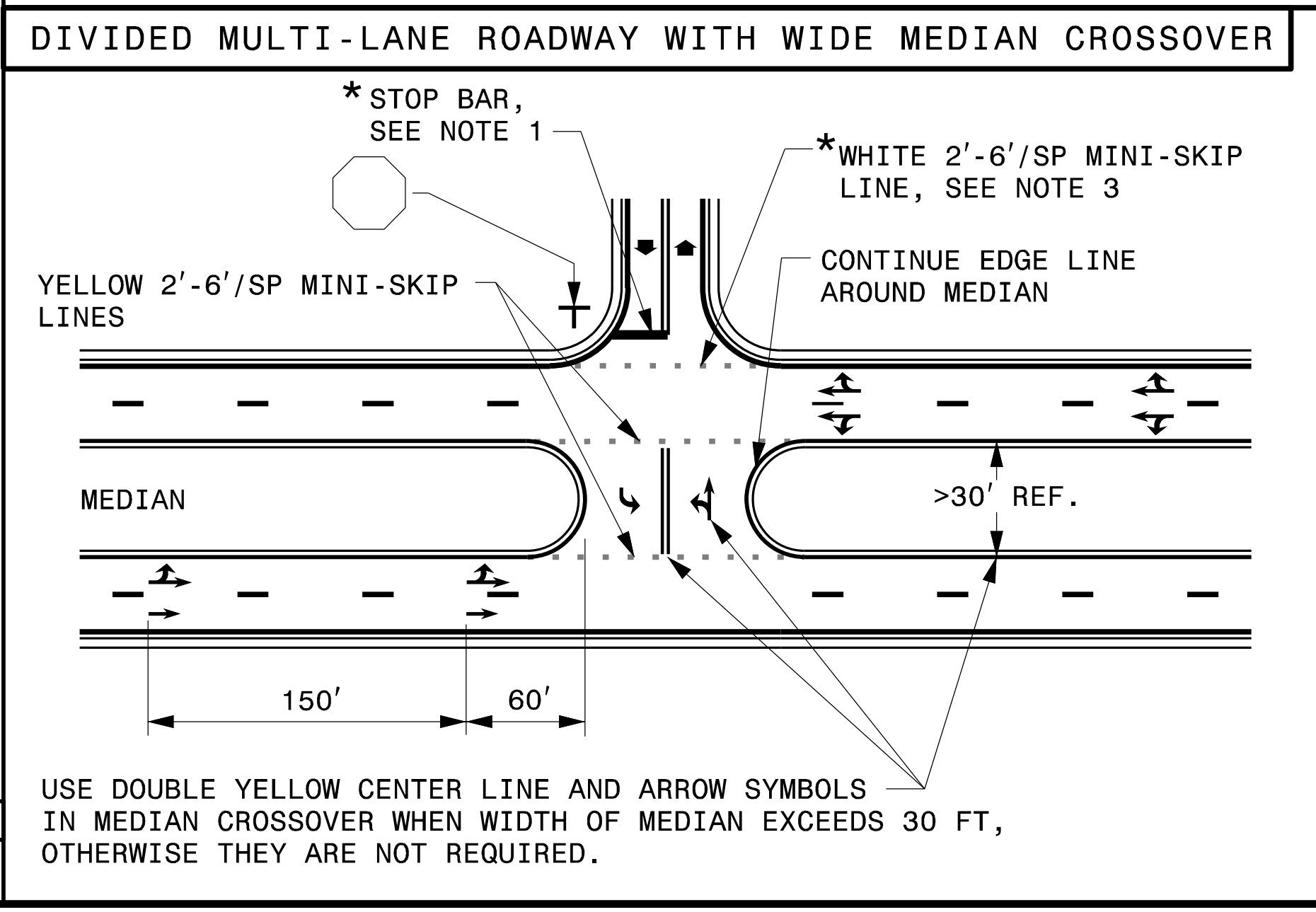
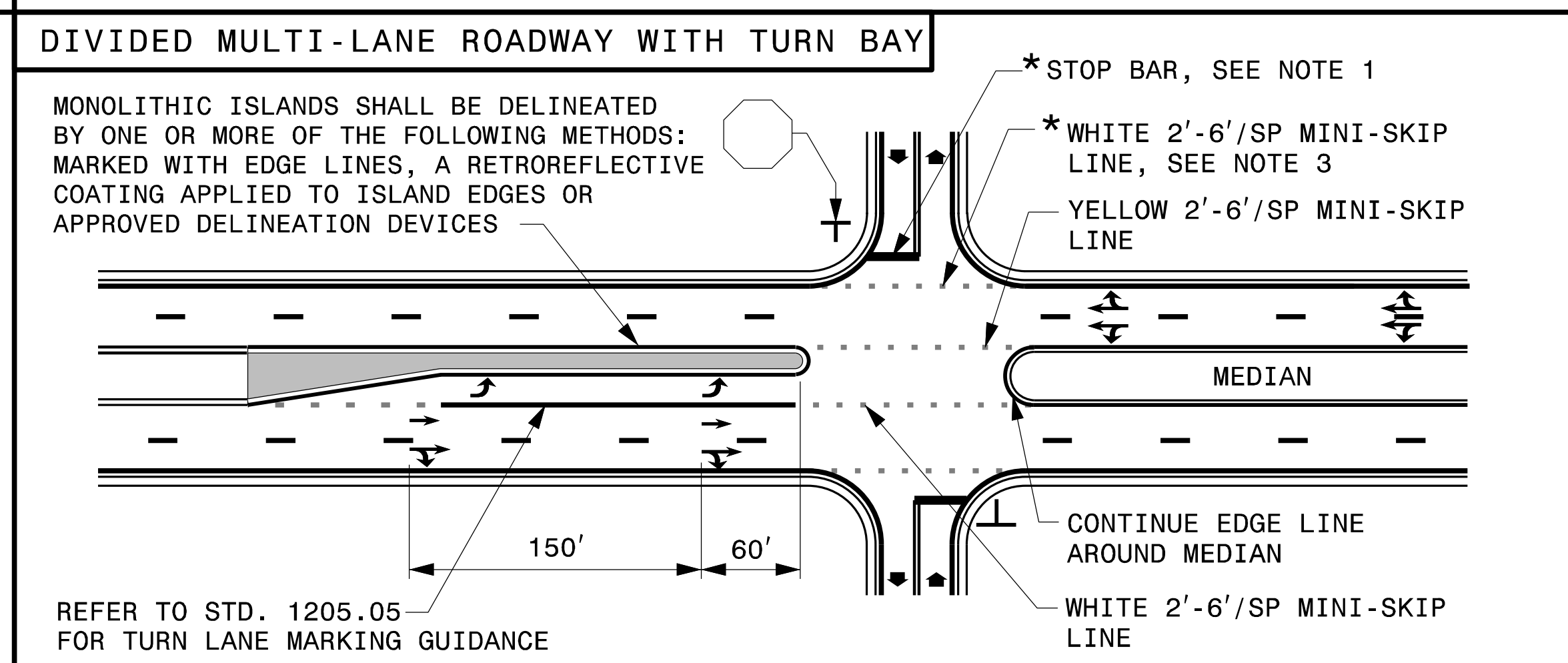
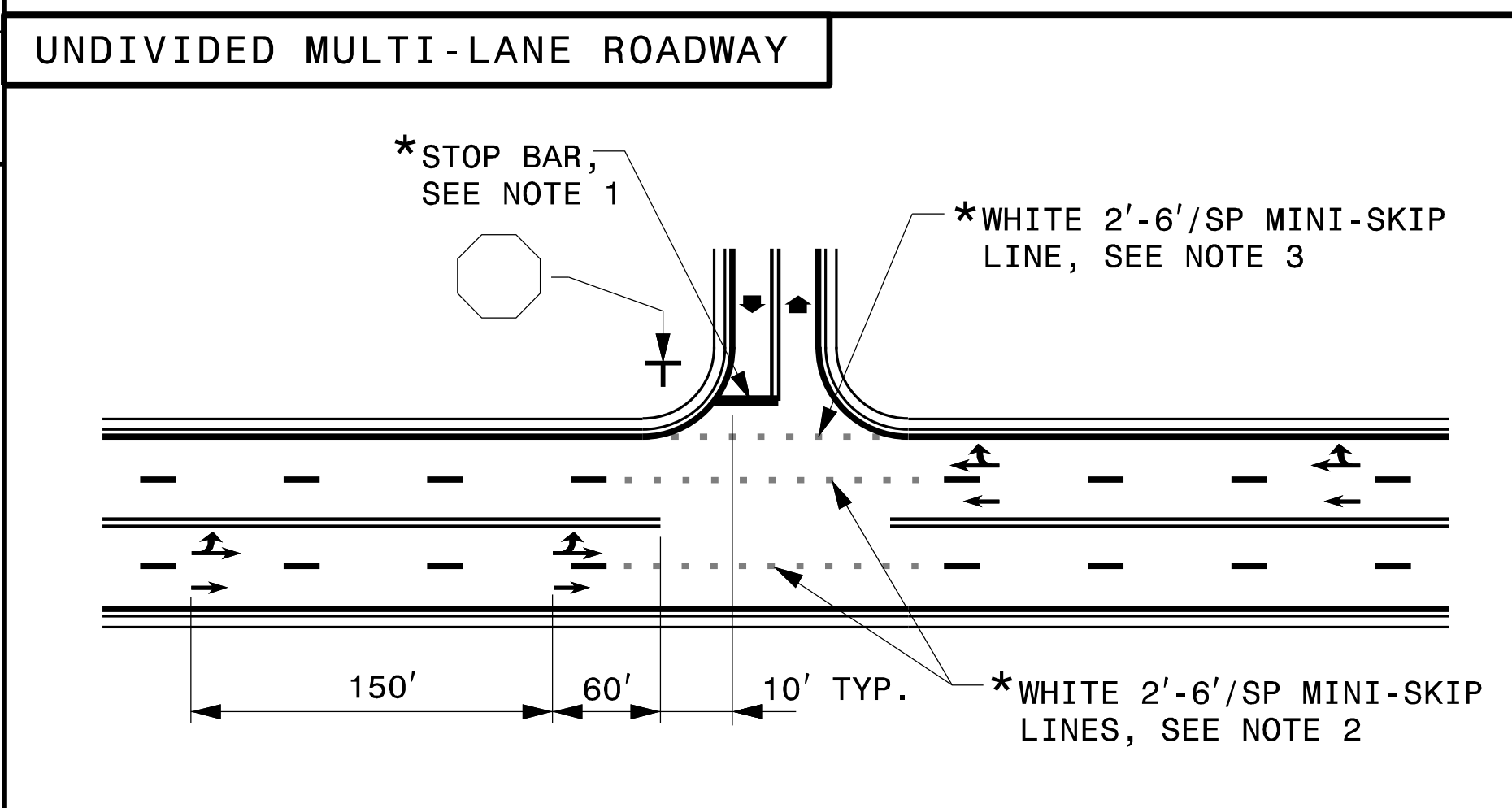
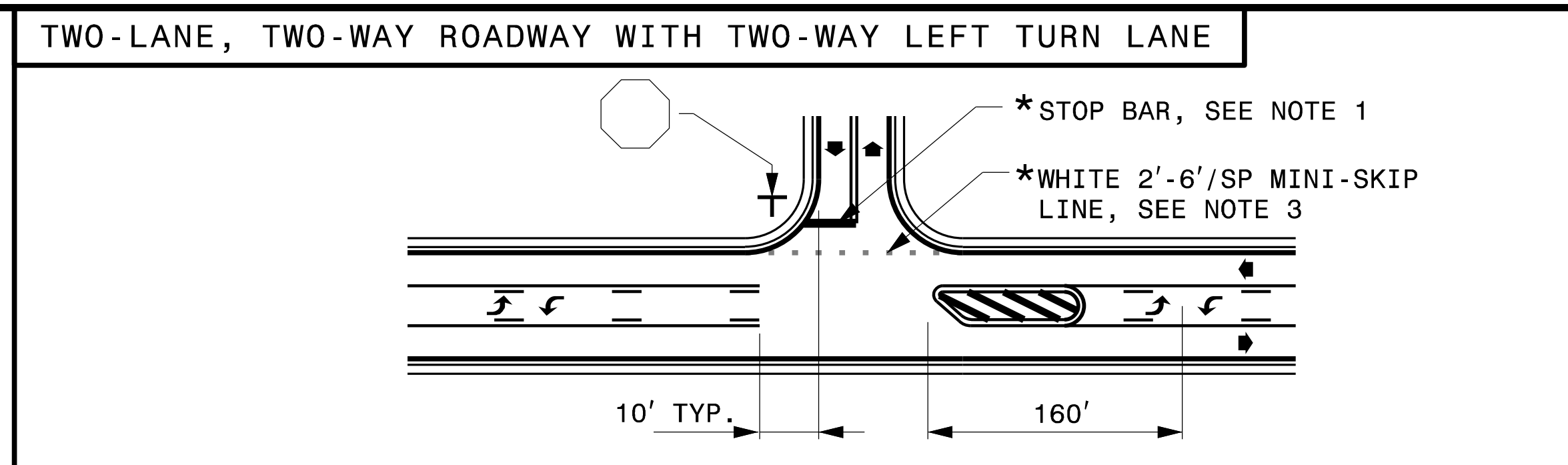
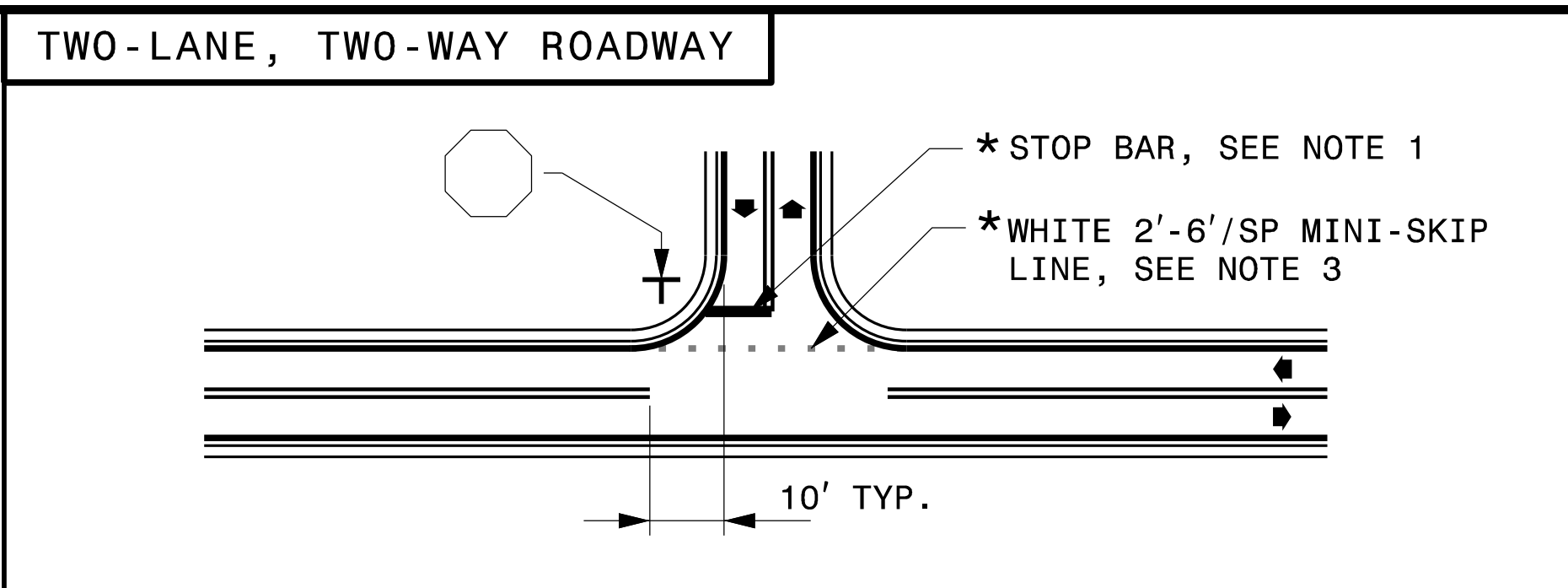
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TIP NO.	SHEET NO.
17BP.14.R.212.cusigned	1205D04
APPROVED:	<i>Matthew V. Springer</i>
DATE:	8/13/2019
SEAL	

STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

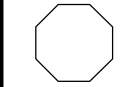

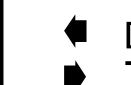

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 INTERSECTIONS

SHEET 2 OF 2
1205D04



GENERAL NOTES:

- 1- PLACEMENT OF STOP BARS AT NON-SIGNALIZED INTERSECTIONS IS OPTIONAL AND USED WHERE IT IS IMPORTANT TO INDICATE THE POINT WHICH VEHICLES ARE REQUIRED TO STOP. PLACE STOP BARS NO LESS THAN 4 FEET AND NO MORE THAN 30 FEET FROM THE NEAREST EDGE OF THE INTERSECTING ROADWAY. USE 10 FEET AS THE TYPICAL SETBACK DISTANCE OR AS DIRECTED BY THE ENGINEER.
- 2- MINI-SKIP LANE LINE EXTENSIONS SHOULD BE USED AT INTERSECTIONS THAT HAVE REDUCED VISIBILITY CONDITIONS SUCH AS OFFSET, SKEWED, OR CURVED ROADWAYS.
- 3- MINI-SKIP EDGE LINE EXTENSIONS MAY BE PLACED THROUGH INTERSECTIONS AND MAJOR DRIVEWAYS.
- 4- REFER TO ROADWAY STANDARD DRAWINGS 1205.01, 1205.02, 1205.05, 1205.08 AND 1205.09 FOR ADDITIONAL PAVEMENT MARKING GUIDANCE.

LEGEND	
	STOP SIGN
	STATIONARY SIGN
	DIRECTION OF TRAFFIC FLOW
	PAVEMENT MARKING SYMBOLS
*	OPTIONAL


SHEET 2 OF 2
1205D04

STATE OF NORTH CAROLINA
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 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

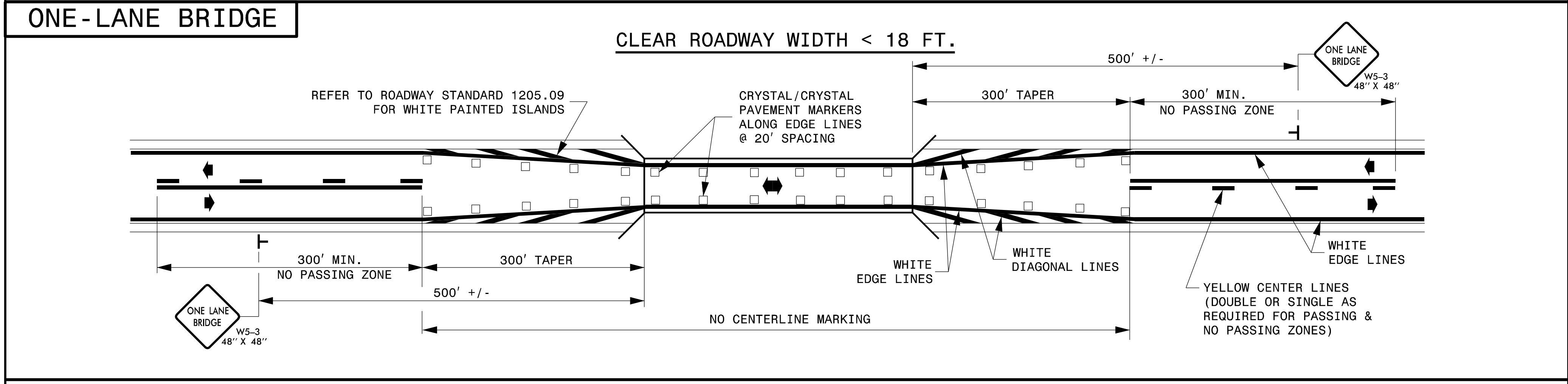
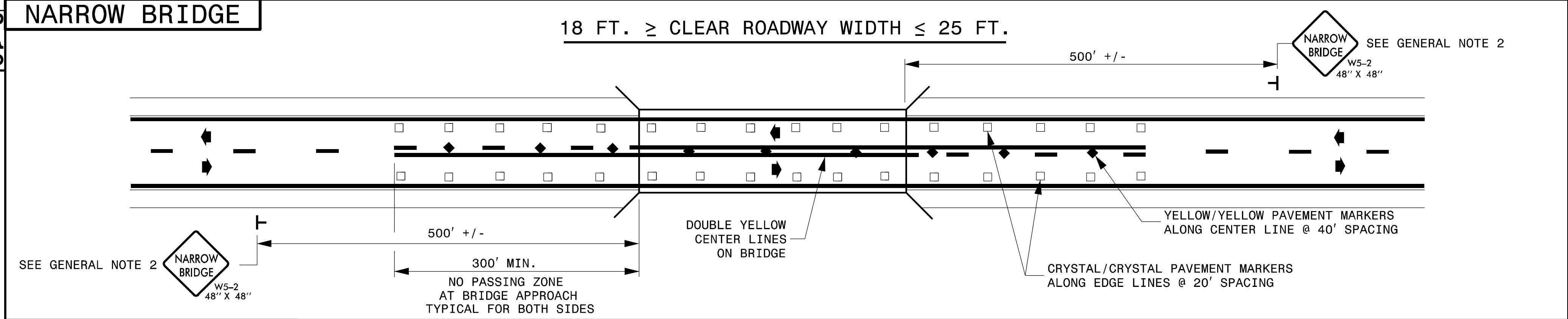
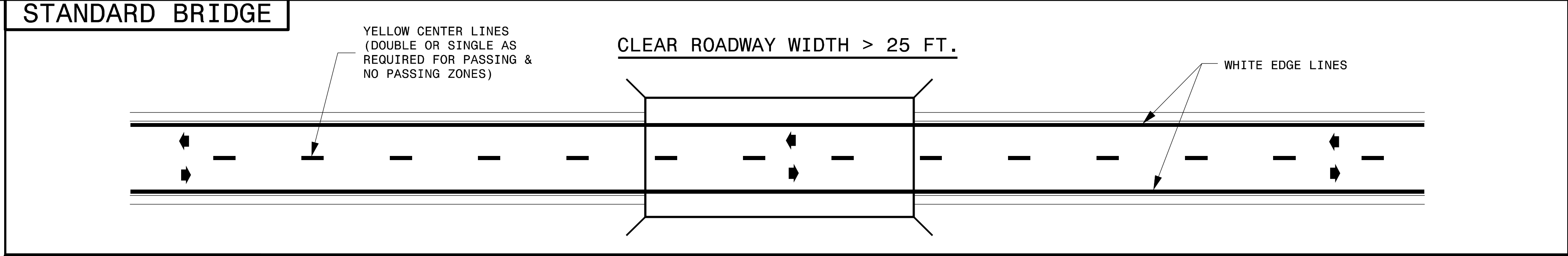
ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
 INTERSECTIONS

SHEET 2 OF 2
1205D04

**REVISED PAVEMENT MARKING
ROADWAY STANDARD DRAWING**

TIP NO.	SHEET NO.
17BP.14.R.212	1205D12
APPROVED:	<i>Matthew V. Springer</i>
DATE:	8/30/2019
SEAL	

STATE OF NORTH CAROLINA
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DIVISION OF HIGHWAYS
RALEIGH, N.C.



- GENERAL NOTES:
- 1- NO PASSING ZONES SHOWN ARE MINIMUMS. APPLY MINIMUM PASSING AND STOPPING SIGHT DISTANCES AS DETERMINED BY THE ENGINEER.
 - 2- FOR BRIDGES WITH 18 TO 25 FEET CLEAR ROADWAY WIDTH, SIGNS MUST BE USED WHEN THE APPROACH PAVEMENT WIDTH IS 2 FOOT OR GREATER THAN THE CLEAR ROADWAY WIDTH.

LEGEND	
	DIRECTION OF TRAFFIC FLOW
	YELLOW/YELLOW PAVEMENT MARKER
	STATIONARY SIGN
	CRYSTAL/CRYSTAL PAVEMENT MARKER

STATE OF NORTH CAROLINA
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DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
PAVEMENT MARKINGS
BRIDGES

SHEET 1 OF 1
1205D12

SHEET 1 OF 1
1205D12

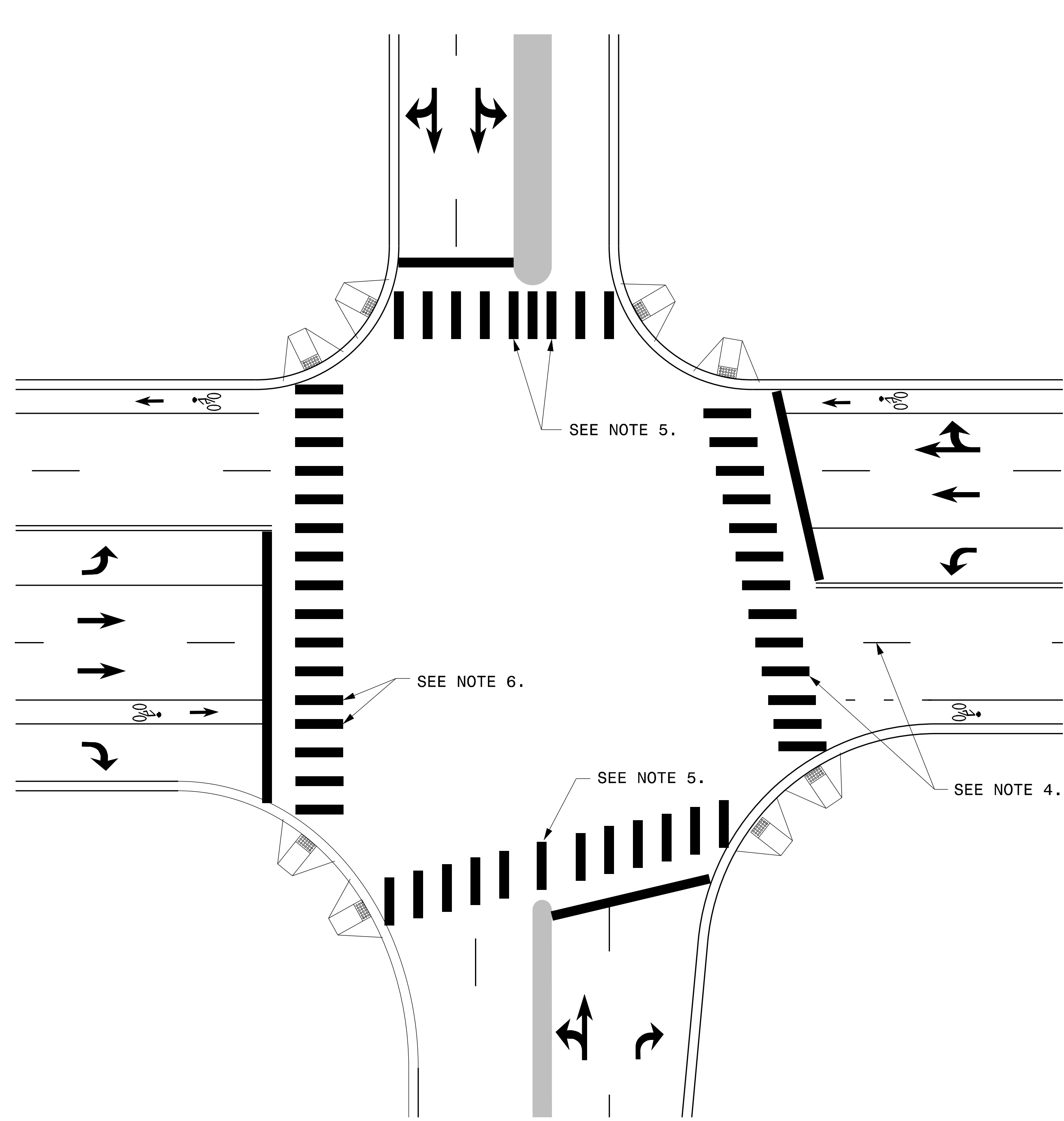
**REVISED PAVEMENT MARKING
ROADWAY STANDARD DRAWING**

08/30/19 S:\S&B\Standards Group\Standards and Drawings\Drawings\Division 12 Final\1205D12\08-29-19.dgn User:dstokes

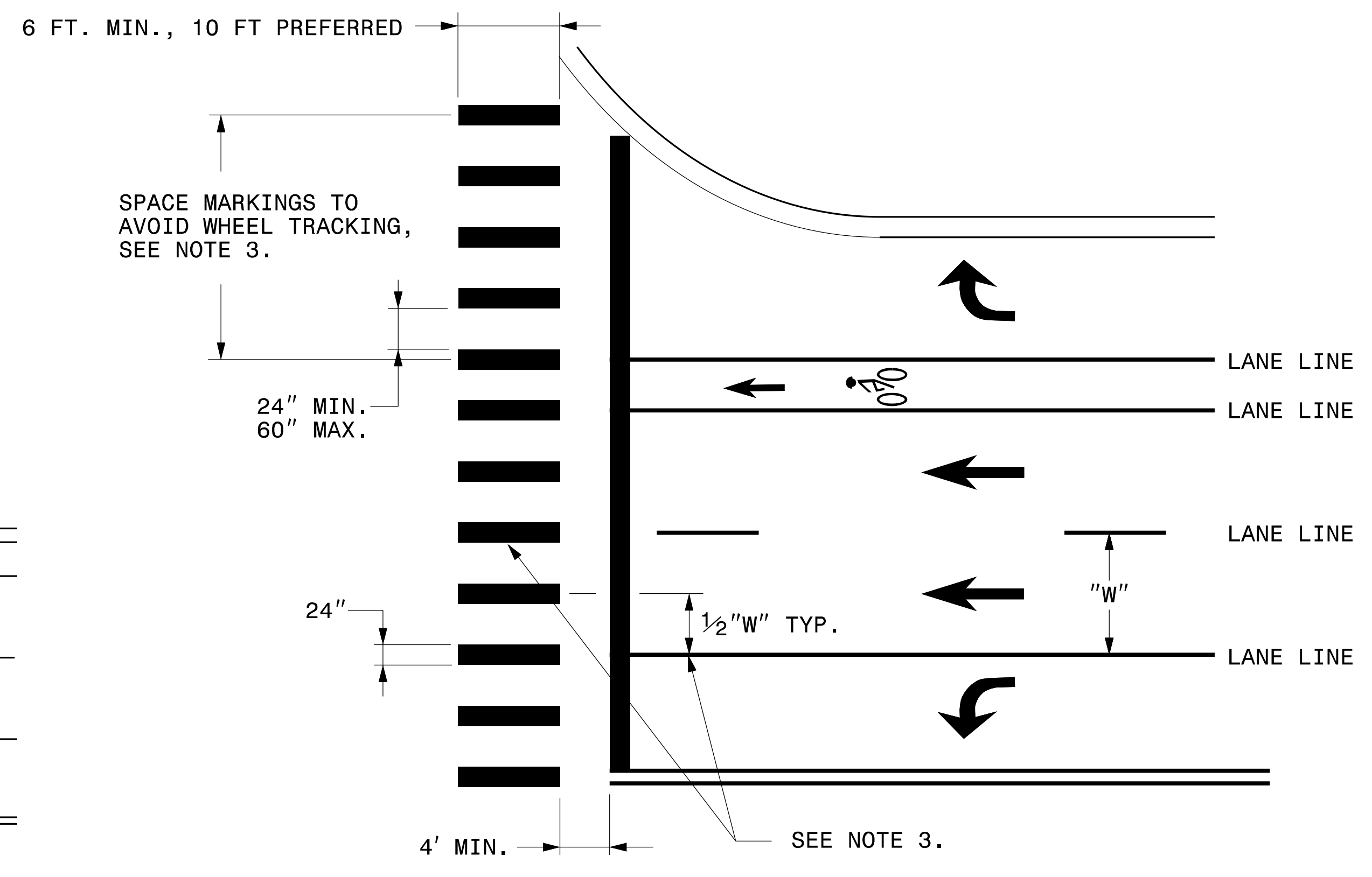
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

2-19

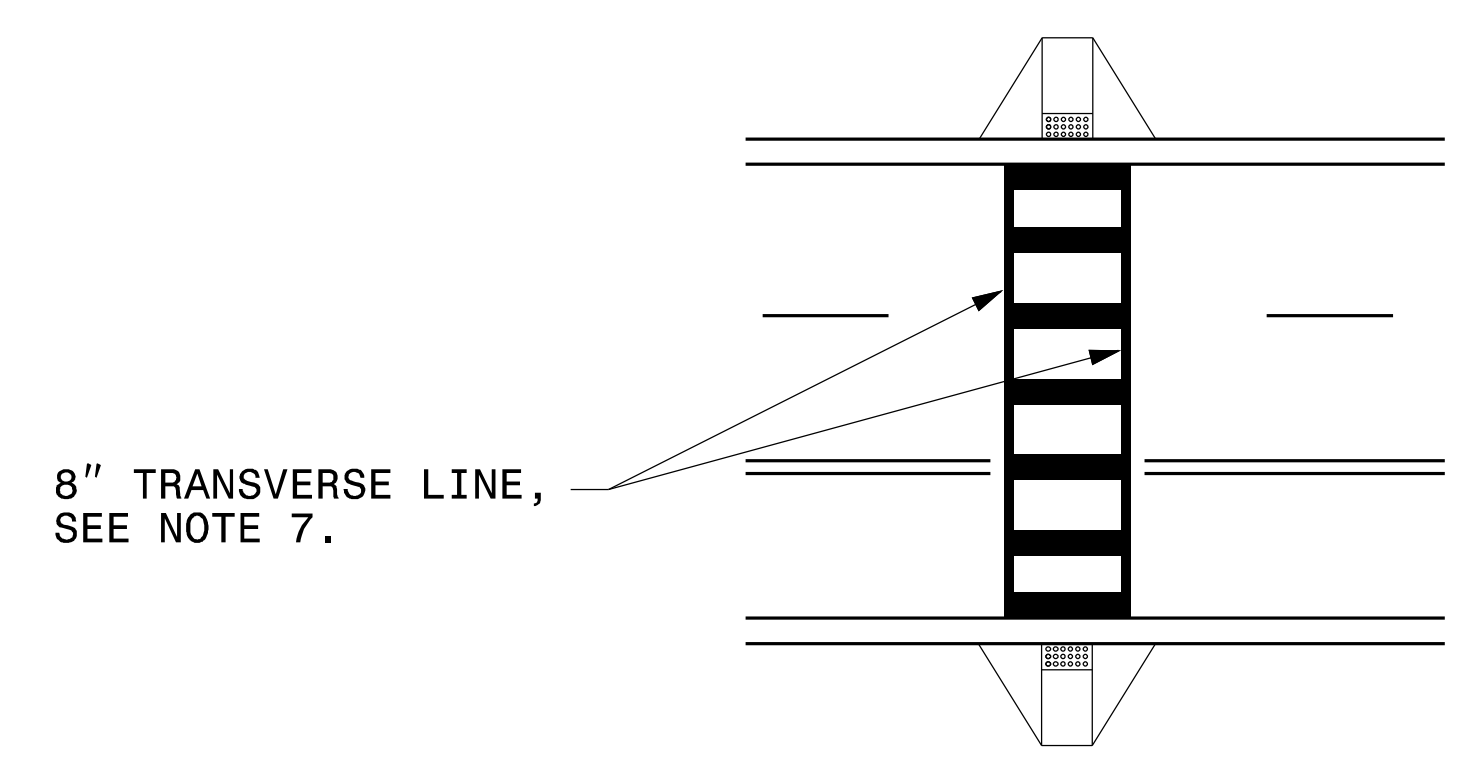
ENGLISH TYPICAL DRAWING FOR
PAVEMENT MARKINGS
HI-VISIBILITY CROSSWALKS
NO-TRACK MARKING GUIDANCE



CROSSWALK INTERSECTION DETAIL



CROSSWALK MARKING DETAIL



MID-BLOCK CROSSWALK DETAIL

GENERAL NOTES:

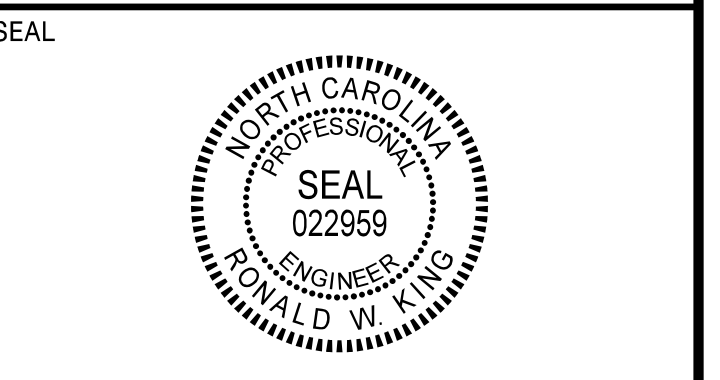
- 1- THE GUIDANCE IN THIS DETAIL IS TO BE USED WHEN NO-TRACK SPACING OF HI-VISIBILITY MARKINGS IS REQUESTED.
- 2- USE THE GUIDANCE SHOWN ON THE ABOVE DETAILS IN CONJUNCTION WITH PAVEMENT MARKING GUIDANCE SHOWN ON ROADWAY STANDARD DRAWINGS 1205.01 AND 1205.07.
- 3- PLACE MARKINGS TO AVOID WHEELPATH OF VEHICLES. MARKINGS TYPICALLY WILL BE LOCATED CENTERED AT THE LANE LINES AND EDGE LINES WITH ONE ADDITIONAL MARKING CENTERED IN THE MIDDLE OF THE LANE. AT WIDE LANE WIDTHS DUE TO TAPERS AND LARGE RADII, LOCATE MARKINGS AT BEST SPACING TO AVOID WHEEL TRACKING. THE SPACE BETWEEN MARKINGS SHALL NOT BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.

- 4- WHERE THE CROSSWALK IS SKEWED TO THE LANE LINES, THE MARKINGS SHOULD BE PARALLEL TO THE LANE LINES.
- 5- PLACE MARKINGS ON BOTH EDGES OF THE NOSE OF A MEDIAN. FOR NARROW MEDIANS LESS THAN 4 FEET, A SINGLE MARKING MAY BE USED. FOR WIDE MEDIANS, INSTALL ADDITIONAL MARKINGS IN THE MEDIAN AREA. THE SPACE BETWEEN THE MARKINGS SHALL NOT TO BE LESS THAN 24 INCHES OR GREATER THAN 60 INCHES.
- 6- LOCATE MARKINGS CENTERED ON BICYCLE LANE LINES. MARKINGS SHALL NOT BE LOCATED IN THE CENTER OF THE BICYCLE PATH.
- 7- INCLUDE 8" TRANSVERSE LINES WITH 24" LONGITUDINAL MARKINGS AT MID-BLOCK CROSSINGS.

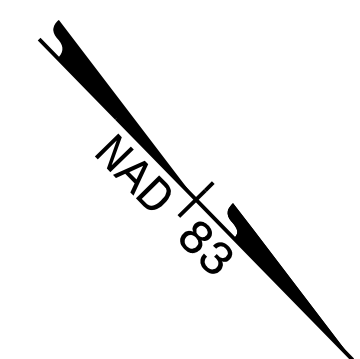
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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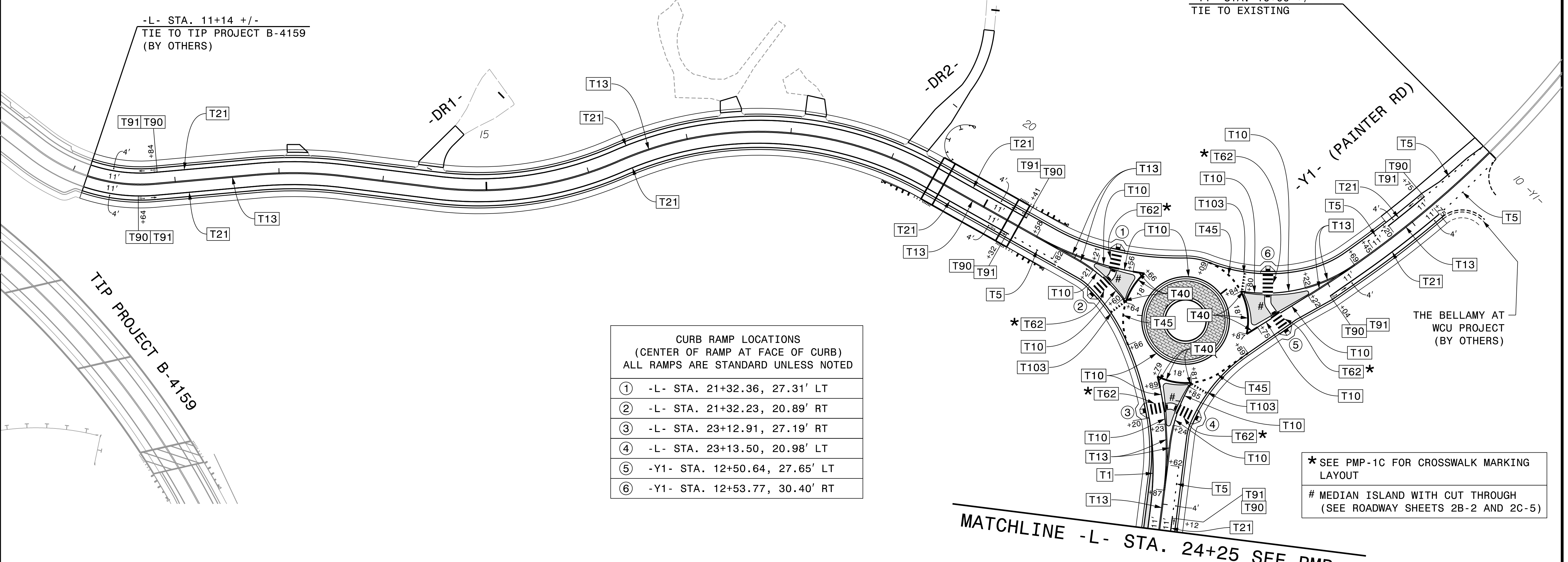
ENGLISH TYPICAL DRAWING FOR
PAVEMENT MARKINGS
HI-VISIBILITY CROSSWALKS
NO-TRACK MARKING GUIDANCE



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-L- (MONTEITH GAP RD)



-L- STA. 11+14 +/-
 TIE TO TIP PROJECT B-4159
 (BY OTHERS)

-Y1- STA. 10+00 +/-
 TIE TO EXISTING

TIP PROJECT B-4159

CURB RAMP LOCATIONS
 (CENTER OF RAMP AT FACE OF CURB)
 ALL RAMPS ARE STANDARD UNLESS NOTED

①	-L- STA. 21+32.36, 27.31' LT
②	-L- STA. 21+32.23, 20.89' RT
③	-L- STA. 23+12.91, 27.19' RT
④	-L- STA. 23+13.50, 20.98' LT
⑤	-Y1- STA. 12+50.64, 27.65' LT
⑥	-Y1- STA. 12+53.77, 30.40' RT

* SEE PMP-1C FOR CROSSWALK MARKING LAYOUT

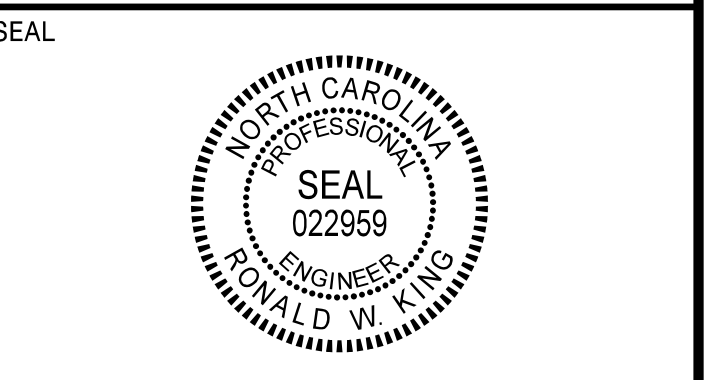
MEDIAN ISLAND WITH CUT THROUGH (SEE ROADWAY SHEETS 2B-2 AND 2C-5)

MATCHLINE -L- STA. 24+25 SEE PMP-3

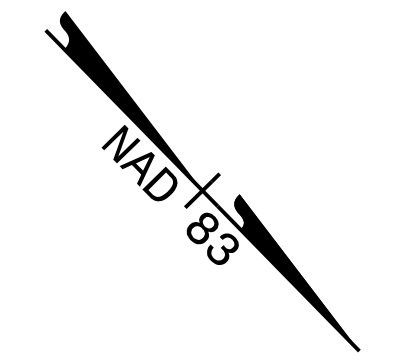
THE BELLAMY AT WCU PROJECT (BY OTHERS)

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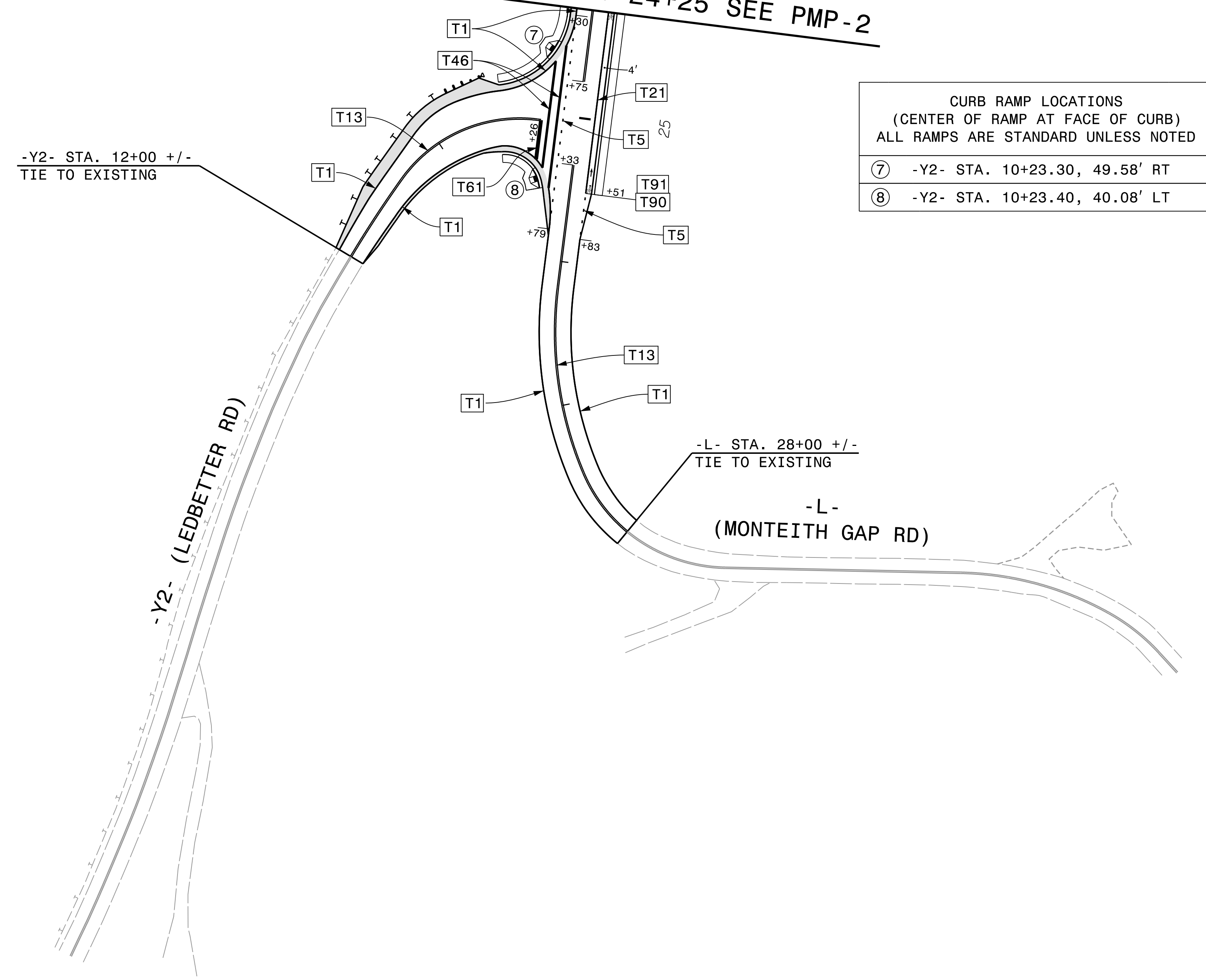
PAVEMENT MARKING DETAIL



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



MATCHLINE -L- STA. 24+25 SEE PMP-2



CURB RAMP LOCATIONS (CENTER OF RAMP AT FACE OF CURB) ALL RAMP ARE STANDARD UNLESS NOTED	
⑦	-Y2- STA. 10+23.30, 49.58' RT
⑧	-Y2- STA. 10+23.40, 40.08' LT

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PAVEMENT MARKING DETAIL