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TIP NO. R-1015	SHEET NO. PMP - 1
APPROVED: <i>Ron King</i>	
DATE: 11/20/2018	
	
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**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
CRAVEN & CARTERET COUNTIES**

**LOCATION: US 70 (HAVELOCK BYPASS) FROM SOUTH OF CARTERET /CRAVEN
COUNTY LINE TO SOUTH OF SR 1176 (CAROLINA PINES BLVD.)**

T.I.P.: R-1015

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 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 MULTILANE ROADWAYS
1205.03	PAVEMENT MARKINGS - EXIT AND ENTRANCE RAMP
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.12	PAVEMENT MARKINGS - BRIDGES
1205.13	PAVEMENT MARKINGS - LANE REDUCTIONS
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
1267.01	FLEXIBLE DELINEATORS - INSTALLATION
1267.02	FLEXIBLE DELINEATORS - SPACING TABLES
1267.03	FLEXIBLE DELINEATORS - INTERCHANGE PLACEMENT

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	SNOWPLOWABLE (MATCH EXISTING ON -Y- LINES)
BRIDGE DECKS	POLYUREA WITH HIGHLY REFLECTIVE MEDIA	RAISED
- D) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- E) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- F) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- G) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
- H) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING POLYUREA PAVEMENT MARKING MATERIAL.
- I) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS DIAGONALS, AND CROSSWALK LINES. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

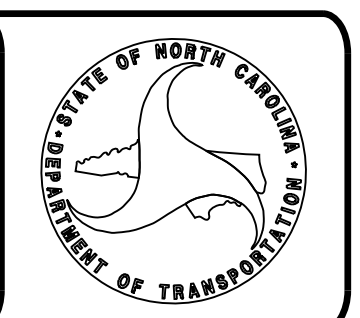
INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE, ROADWAY STANDARD DRAWINGS, GENERAL NOTES, AND INDEX
PMP-1A	PAVEMENT MARKING SCHEDULE
PMP-2 THRU PMP-29	PAVEMENT MARKING DETAILS

**RFC
PAVEMENT MARKING PLANS**

PLAN PREPARED FOR: N.C.D.O.T. SIGNING AND DELINEATION UNIT

AYMAN ALQUDWAH, P.E. SIGNING & DELINEATION REGIONAL ENGINEER
ERIC WARD SIGNING & DELINEATION PROJECT DESIGN ENGINEER/TECHNICIAN



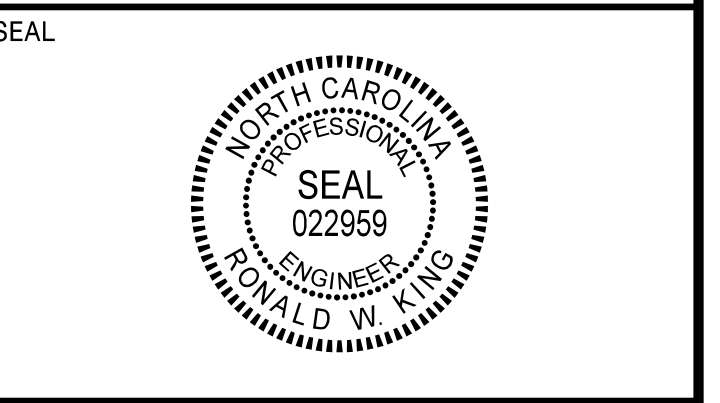
PLAN PREPARED BY: HDR ENGINEERING

RON KING, P.E. SIGNING & DELINEATION PROJECT ENGINEER
CHRIS HARNDEN SIGNING & DELINEATION PROJECT DESIGN TECHNICIAN

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CONTRACT:

APPROVED: *Ron King*
DATE: 9/19/2018



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SCHEDULE

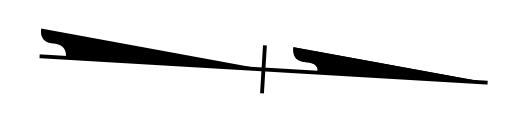
- | | |
|---|---|
| (T2) THERMOPLASTIC 24" WHITE STOPBAR (120 MIL) | (V6) POLYUREA 6" WHITE EDGELINE |
| (T6) THERMOPLASTIC 6" WHITE EDGELINE (90 MIL) | (V7) POLYUREA 6" YELLOW EDGELINE |
| (T7) THERMOPLASTIC 6" YELLOW EDGELINE (90 MIL) | (VA) POLYUREA 4" WHITE EDGELINE |
| (T8) THERMOPLASTIC 4" 2'-6"/SP. WHITE MINI-SKIP (120 MIL) | (VD) POLYUREA 4" 3'-9"/SP. WHITE MINI-SKIP |
| (T9) THERMOPLASTIC 4" 2'-6"/SP. YELLOW MINI-SKIP (120 MIL) | (VI) POLYUREA 4" YELLOW DOUBLE CENTER |
| (T13) THERMOPLASTIC 8" 3'-9"/SP. WHITE MINI-SKIP (120 MIL) | (VJ) POLYUREA 6" 10'-30"/SP. WHITE SKIP |
| (T14) THERMOPLASTIC 12" 3'-9"/SP. WHITE MINI-SKIP (120 MIL) | (VK) POLYUREA 6" 3'-9"/SP. WHITE MINI-SKIP |
| (TA) THERMOPLASTIC 4" WHITE EDGELINE (90 MIL) | (VS) POLYUREA 12" WHITE GORELINE |
| (TB) THERMOPLASTIC 4" YELLOW EDGELINE (90 MIL) | (MA) RAISED PAVEMENT MARKER - YELLOW & YELLOW |
| (TC) THERMOPLASTIC 4" 10'-30"/SP. WHITE SKIP (120 MIL) | (MB) RAISED PAVEMENT MARKER - CRYSTAL & RED |
| (TD) THERMOPLASTIC 4" 3'-9"/SP. WHITE MINI-SKIP (120 MIL) | (ME) SNOWPLOWABLE PAVEMENT MARKER - YELLOW & YELLOW |
| (TE) THERMOPLASTIC 4" WHITE SOLID LANE LINE (120 MIL) | (MF) SNOWPLOWABLE PAVEMENT MARKER - CRYSTAL & RED |
| (TI) THERMOPLASTIC 4" YELLOW DOUBLE CENTER (120 MIL) | |
| (TJ) THERMOPLASTIC 6" 10'-30"/SP. WHITE SKIP (120 MIL) | |
| (TK) THERMOPLASTIC 6" 3'-9"/SP. WHITE MINI-SKIP (120 MIL) | |
| (TL) THERMOPLASTIC 6" WHITE SOLID LANE LINE (120 MIL) | |
| (TN) THERMOPLASTIC 8" WHITE GORELINE (90 MIL) | |
| (TR) THERMOPLASTIC 8" WHITE SOLID LANE LINE (120 MIL) | |
| (TS) THERMOPLASTIC 12" WHITE GORELINE (90 MIL) | |
| (TT) THERMOPLASTIC 12" WHITE SOLID LANE LINE (120 MIL) | |
| (TU) THERMOPLASTIC 12" WHITE DIAGONAL (90 MIL) | |
| (TV) THERMOPLASTIC 12" YELLOW DIAGONAL (90 MIL) | |
| (UA) THERMOPLASTIC LEFT TURN ARROW (90 MIL) | |
| (UB) THERMOPLASTIC RIGHT TURN ARROW (90 MIL) | |
| (UC) THERMOPLASTIC STRAIGHT ARROW (90 MIL) | |
| (UD) THERMOPLASTIC COMBO LEFT-STRAIGHT ARROW (90 MIL) | |
| (UE) THERMOPLASTIC COMBO RIGHT-STRAIGHT ARROW (90 MIL) | |
| (UI) THERMOPLASTIC ALPHANUMERIC CHARACTER (120 MIL) | |
| (UN) THERMOPLASTIC 24" YIELD LINE TRIANGLE (90 MIL) | |
| (UP) THERMOPLASTIC MERGE ARROW (90 MIL) | |
| (UQ) THERMOPLASTIC RAMP ARROW (90 MIL) | |

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PAVEMENT MARKING SCHEDULE



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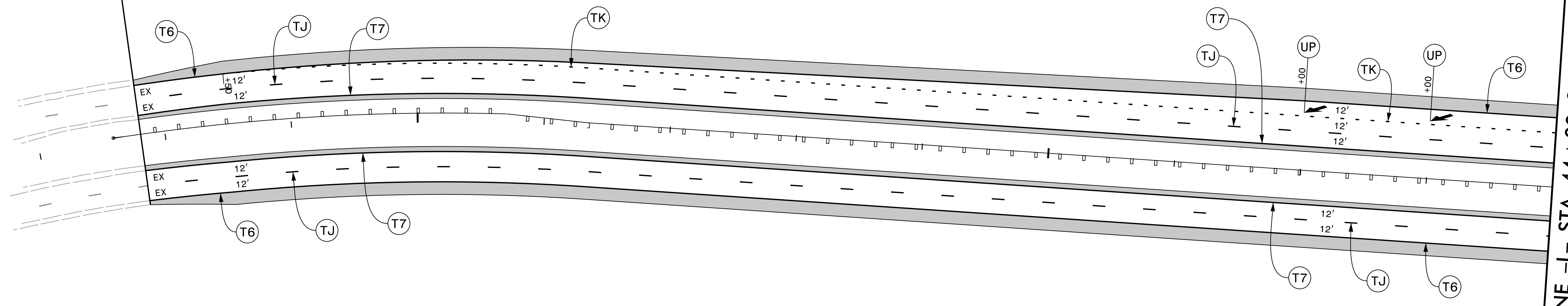


35

40

-L- STA. 32+81 ±
 BEGIN PAVEMENT MARKINGS
 TIE TO EXISTING

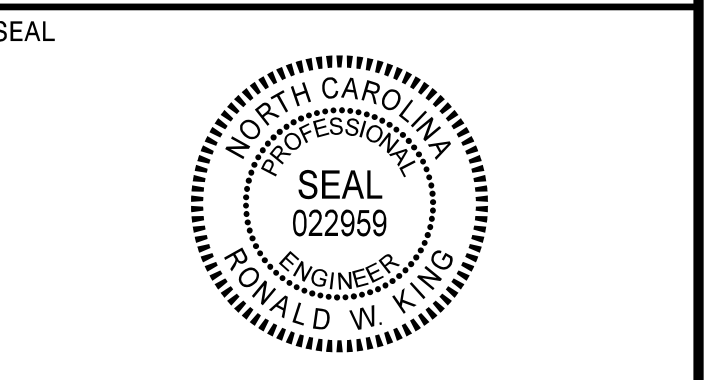
-L- US 70



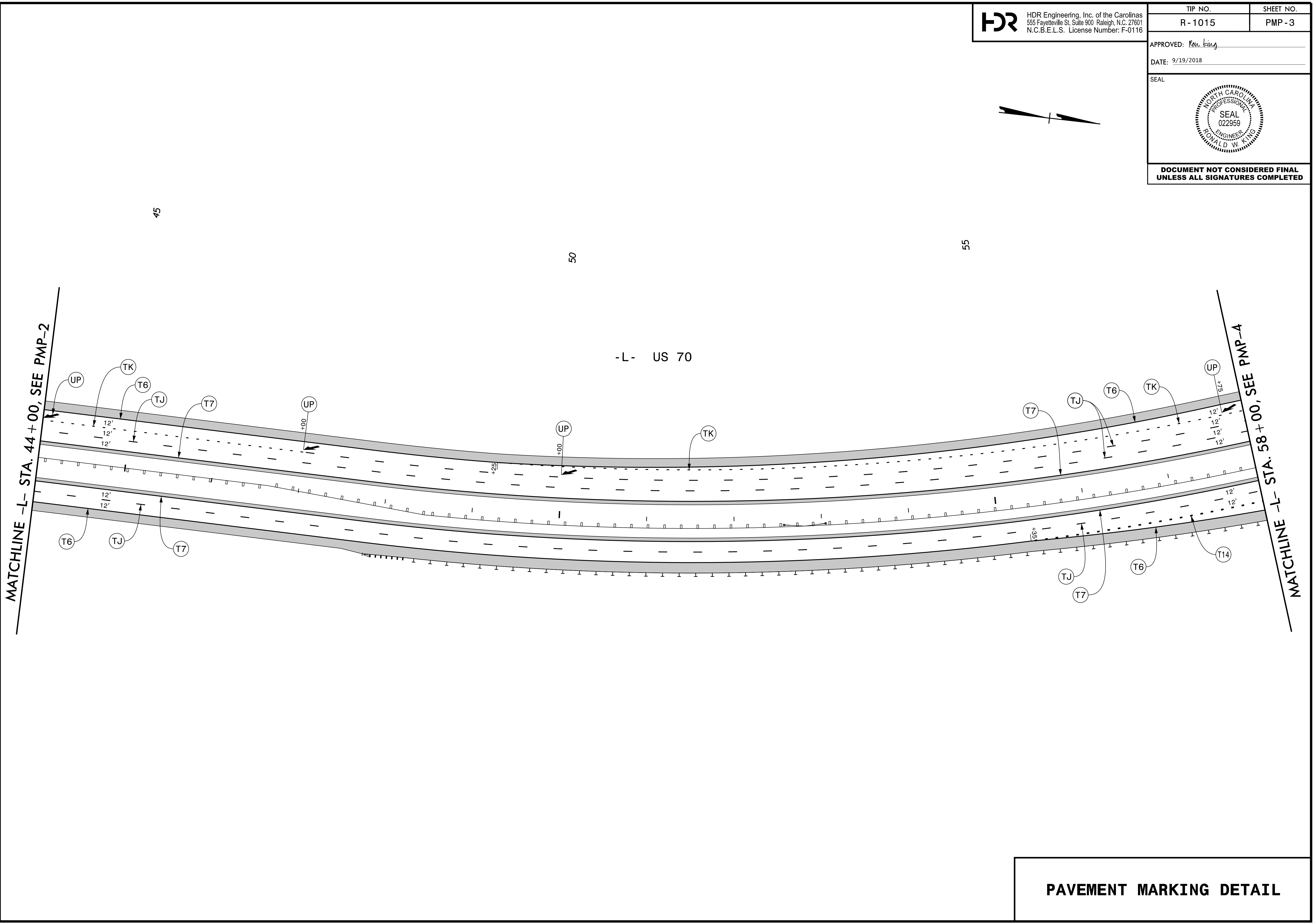
MATCHLINE -L- STA. 44+00, SEE PMP-3

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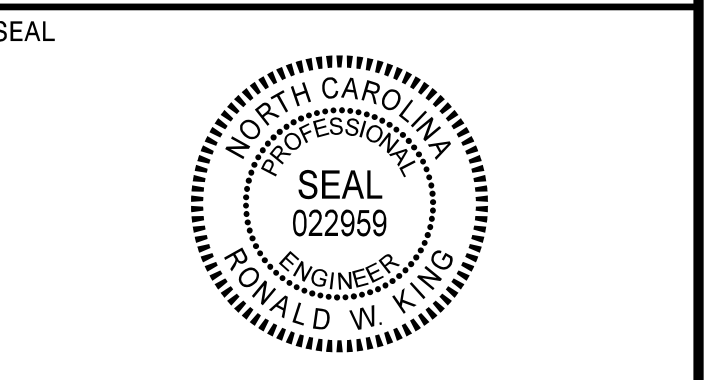


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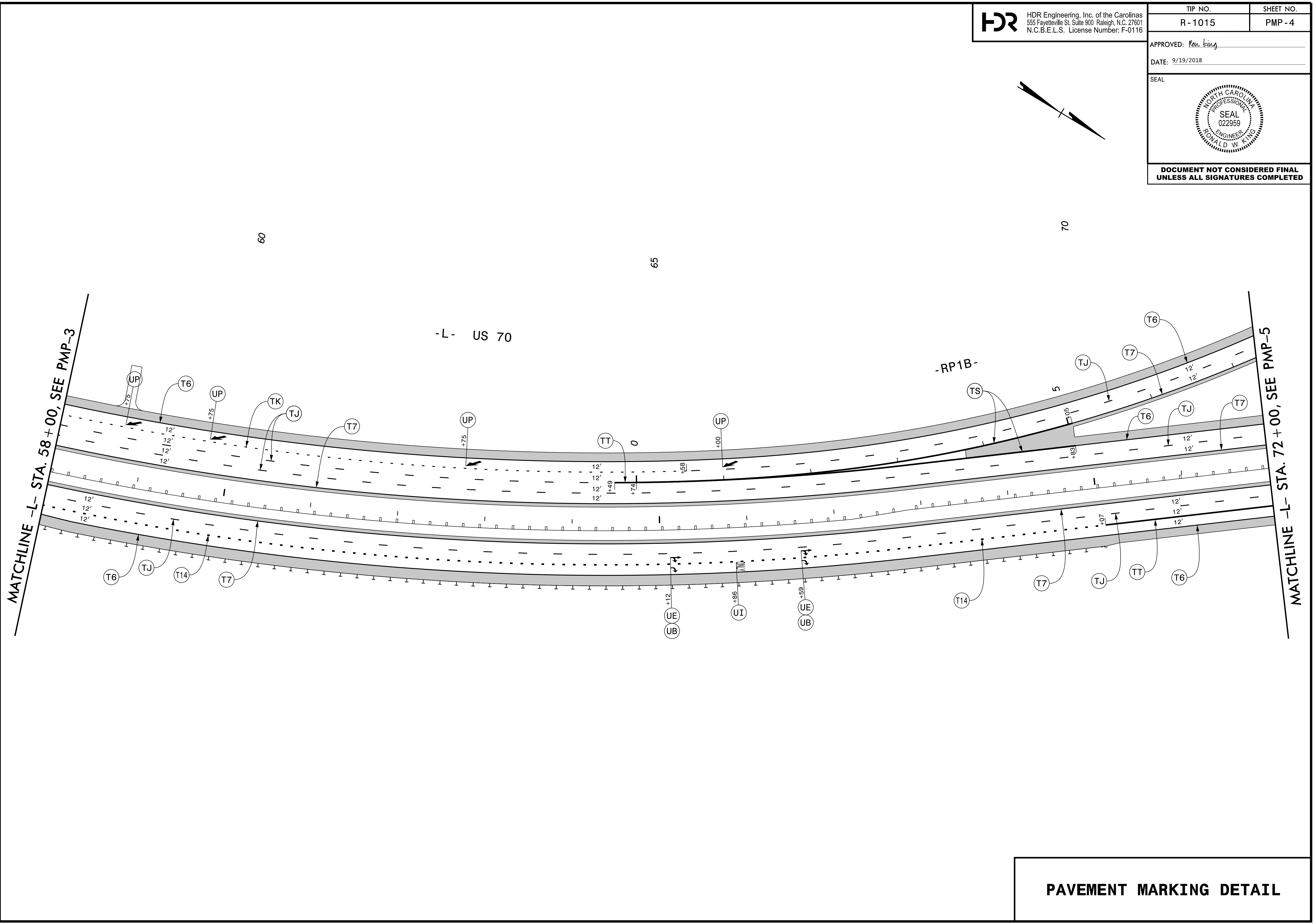
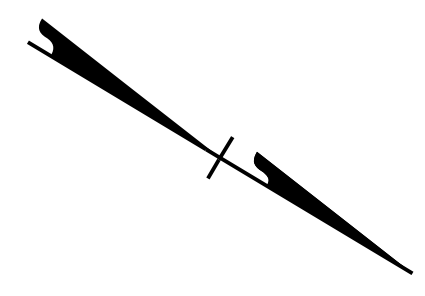


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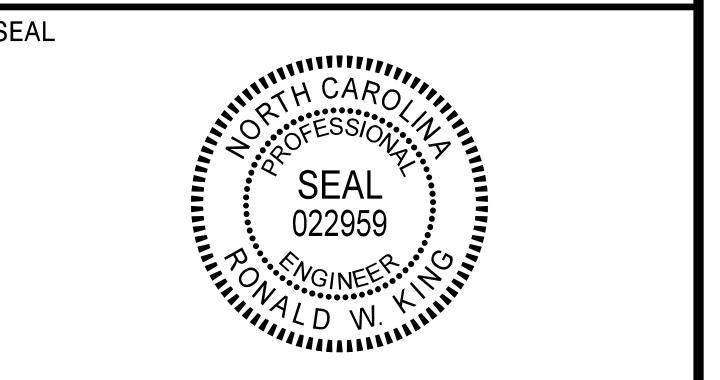


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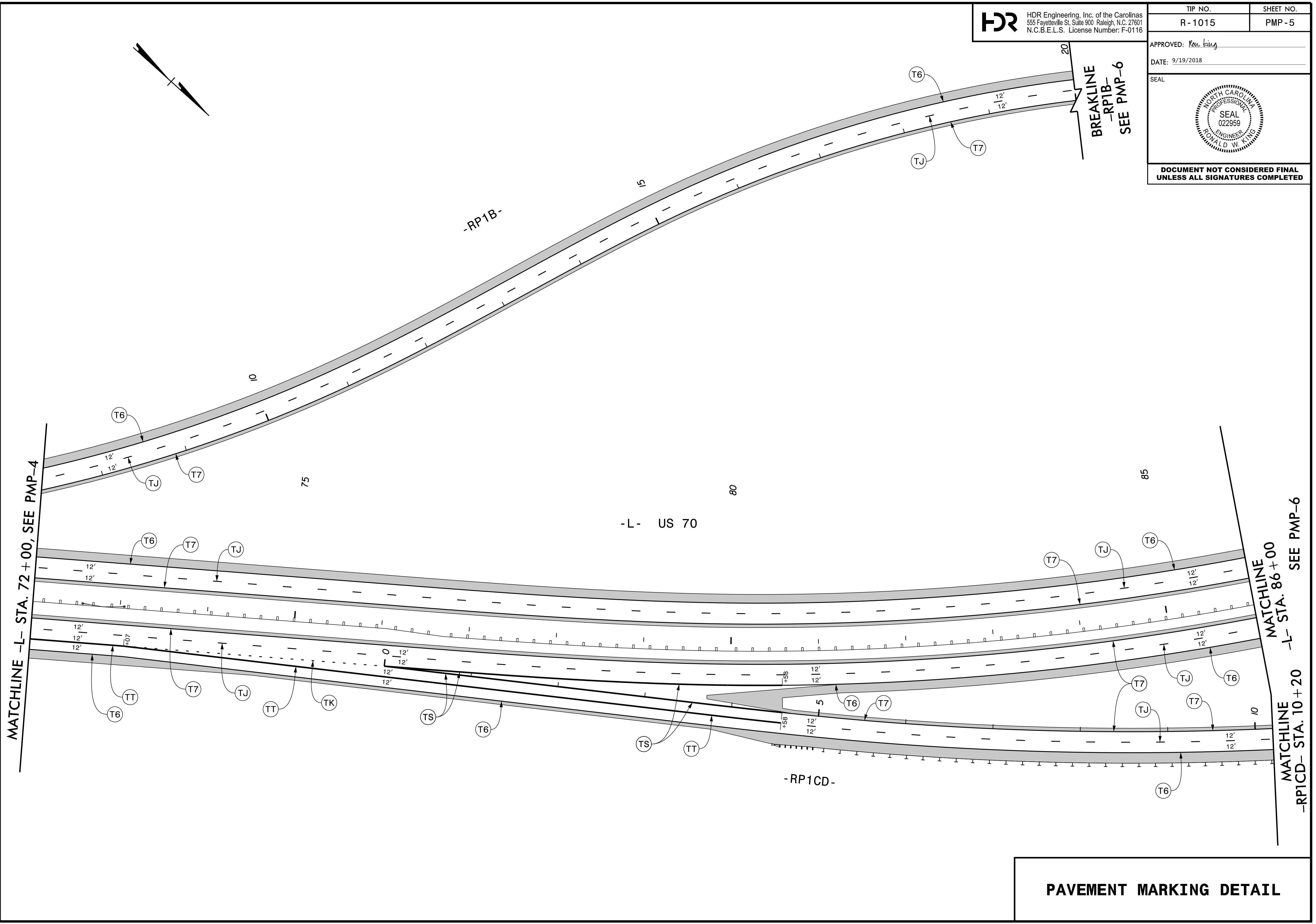


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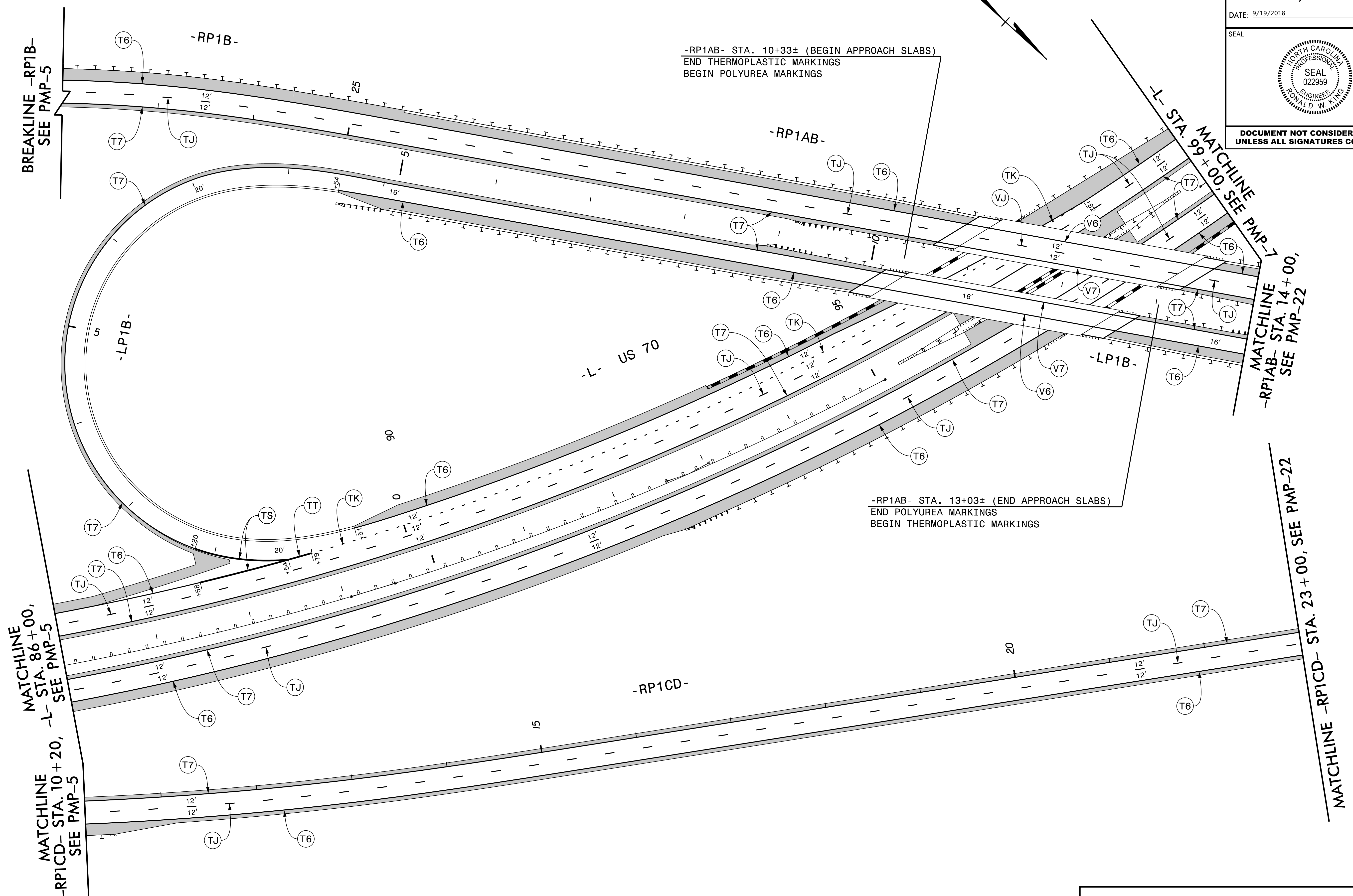


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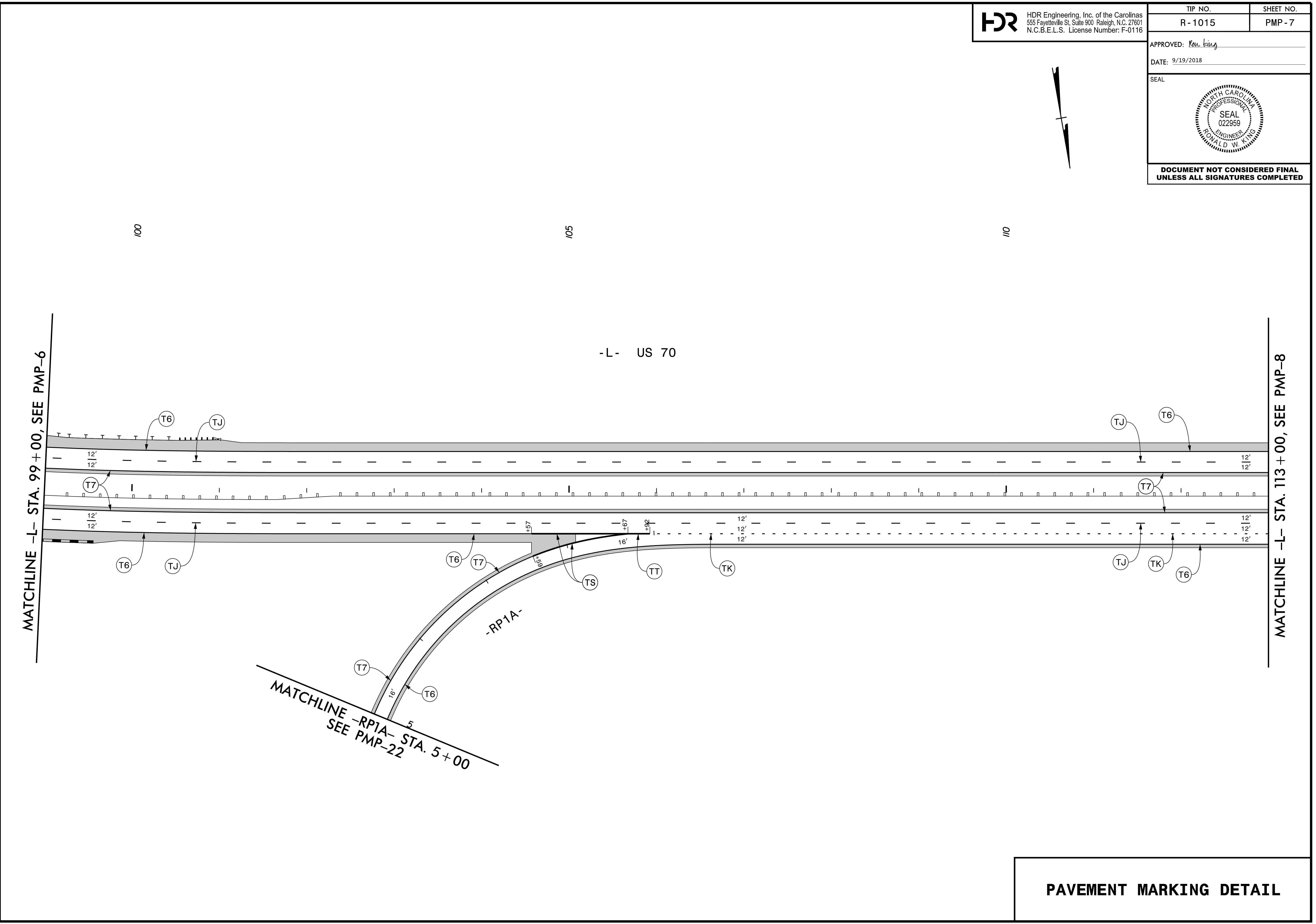
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PAVEMENT MARKING DETAIL

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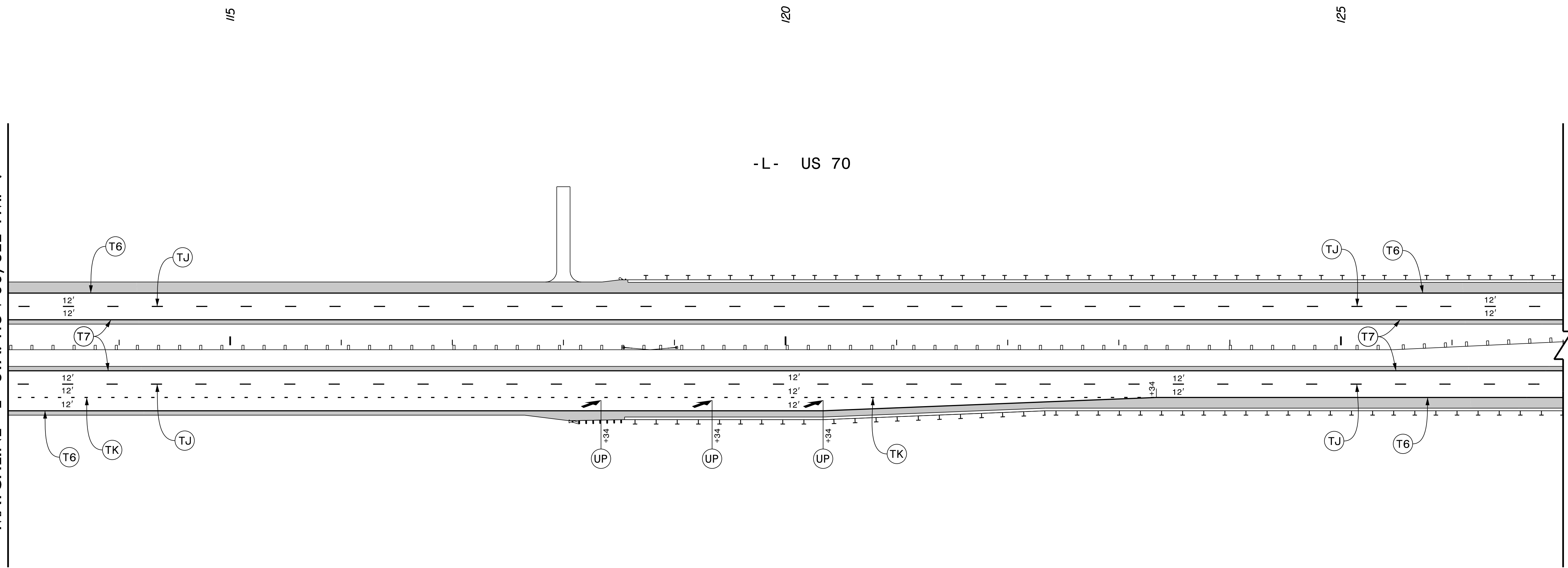
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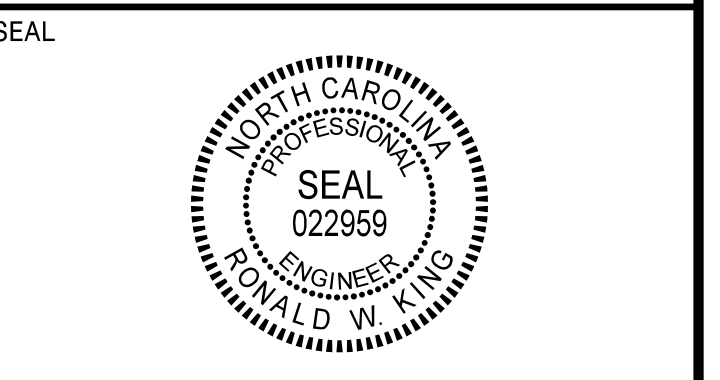
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MATCHLINE -L- STA. 113 + 00, SEE PMP-7



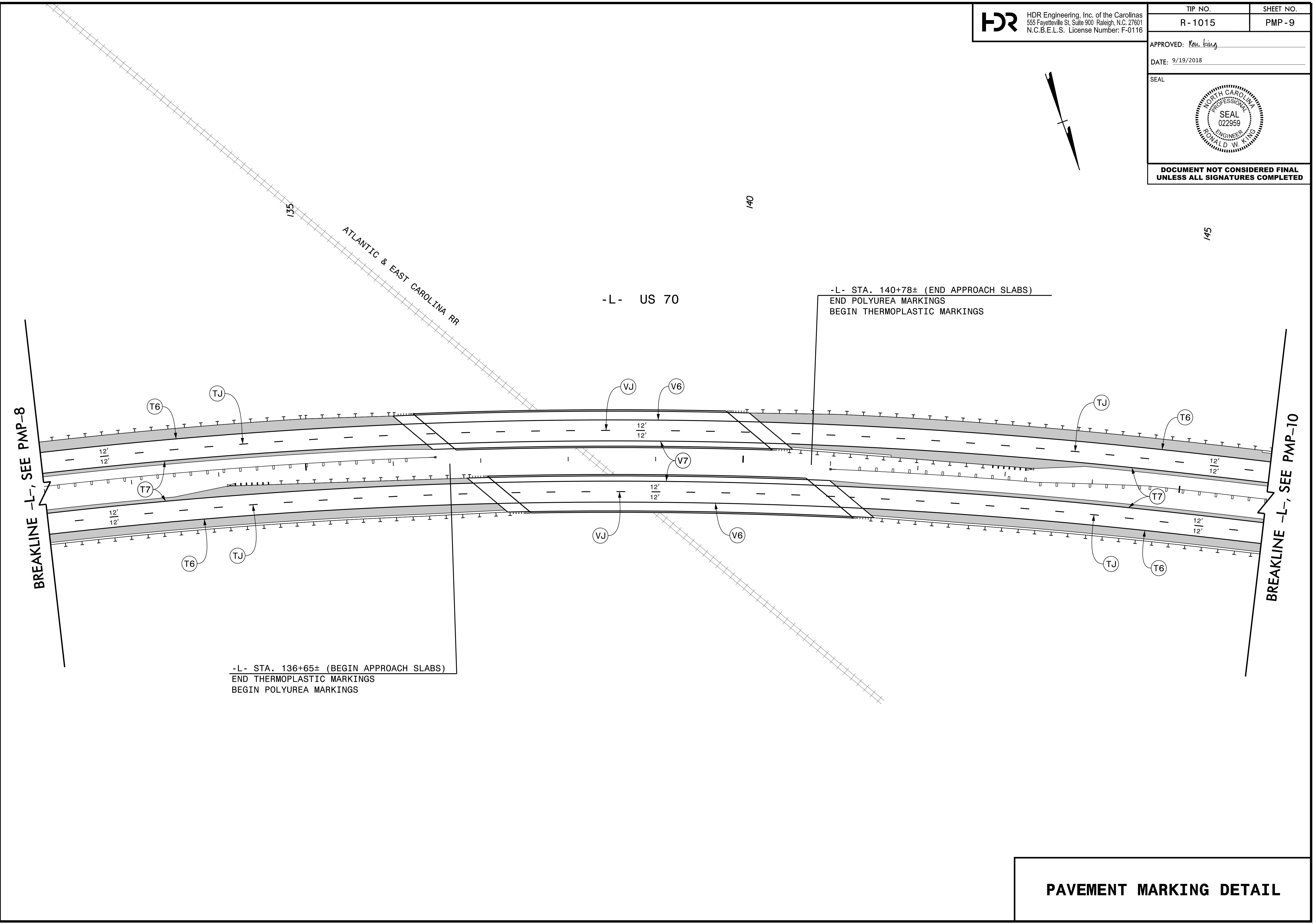
BREAKLINE -L-, SEE PMP-9

PAVEMENT MARKING DETAIL



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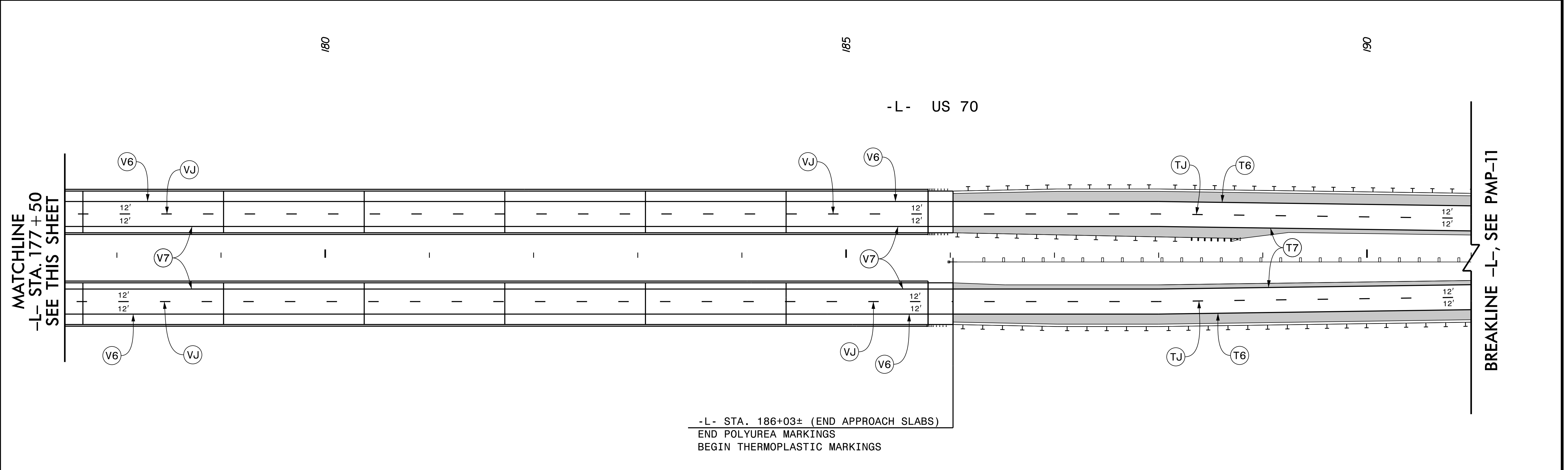
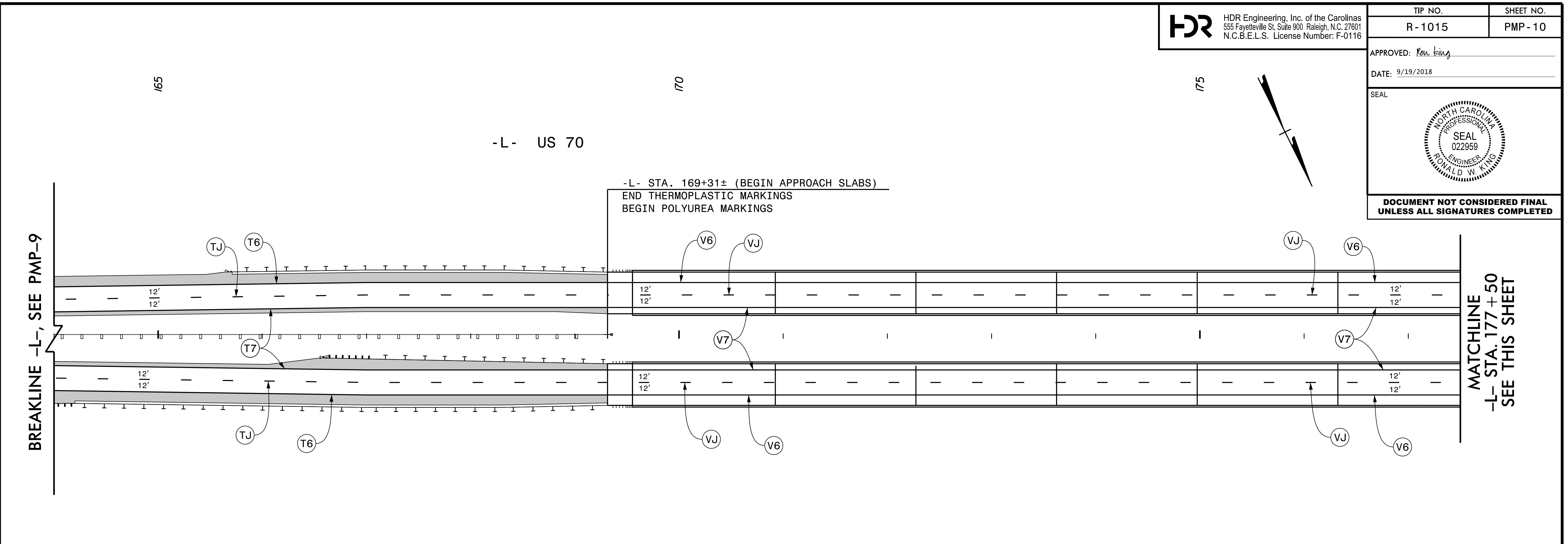
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PAVEMENT MARKING DETAIL



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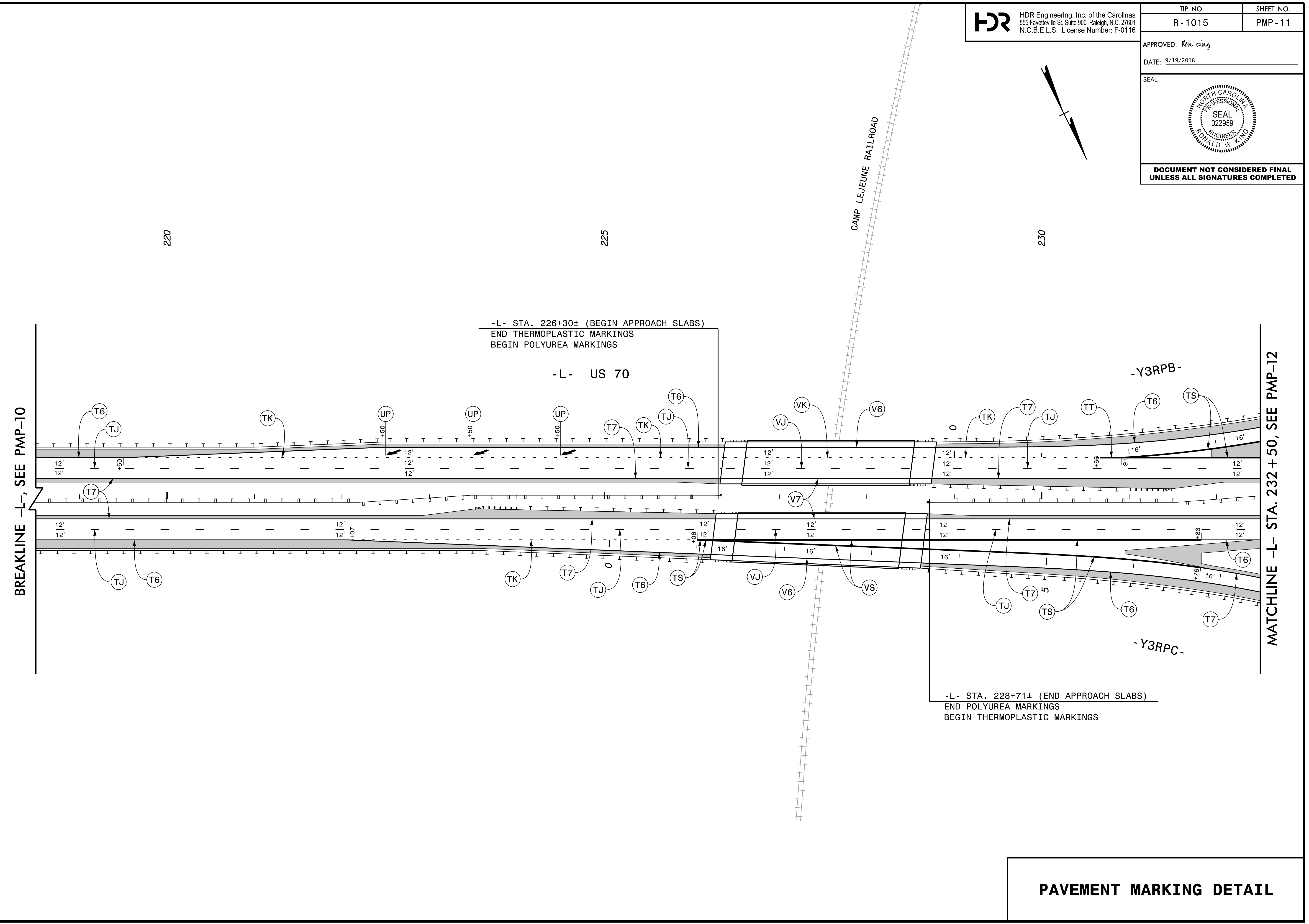
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BREAKLINE -L-, SEE PMP-10

MATCHLINE -L- STA. 232 + 50, SEE PMP-12

-L- STA. 226+30± (BEGIN APPROACH SLABS)
END THERMOPLASTIC MARKINGS
BEGIN POLYUREA MARKINGS

-L- US 70

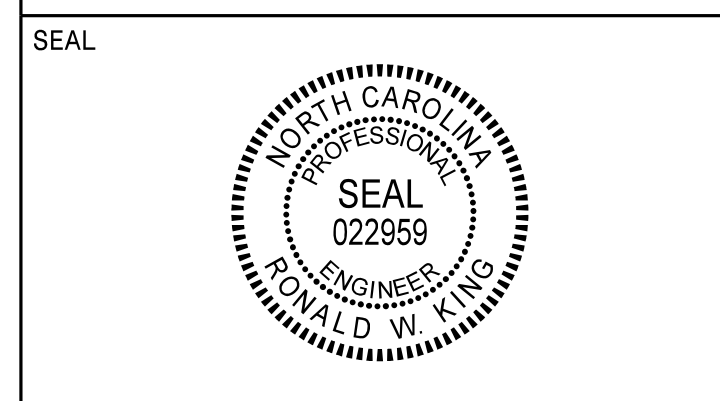
-L- STA. 228+71± (END APPROACH SLABS)
END POLYUREA MARKINGS
BEGIN THERMOPLASTIC MARKINGS

PAVEMENT MARKING DETAIL



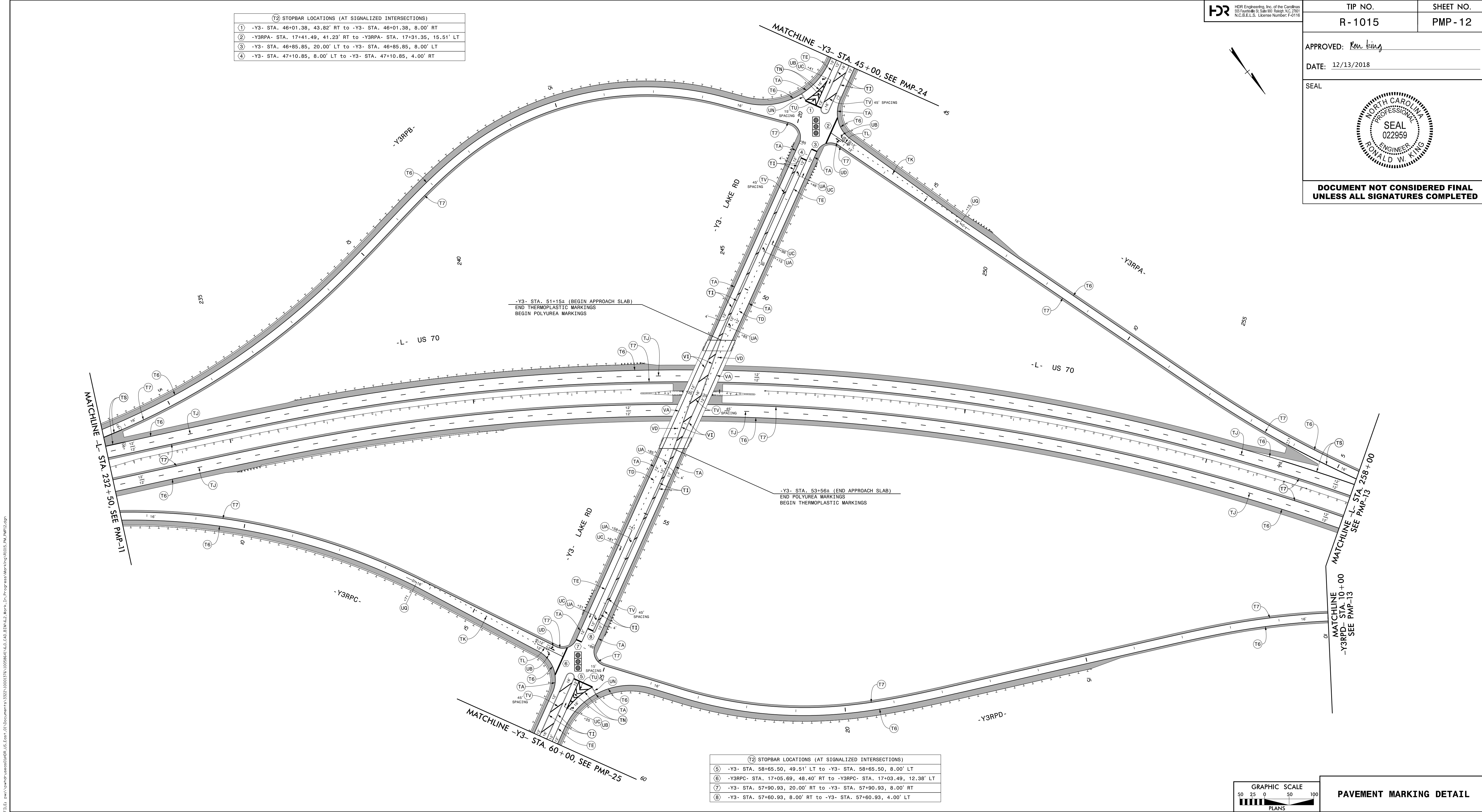
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R-1015	PMP-12

APPROVED: *Ron King*
 DATE: 12/13/2018

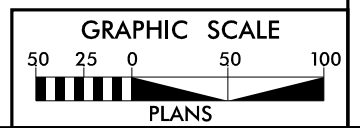


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(T) STOPBAR LOCATIONS (AT SIGNALIZED INTERSECTIONS)	
①	-Y3- STA. 46+01.38, 43.82' RT to -Y3- STA. 46+01.38, 8.00' RT
②	-Y3RPA- STA. 17+41.49, 41.23' RT to -Y3RPA- STA. 17+31.35, 15.51' LT
③	-Y3- STA. 46+85.85, 20.00' LT to -Y3- STA. 46+85.85, 8.00' LT
④	-Y3- STA. 47+10.85, 8.00' LT to -Y3- STA. 47+10.85, 4.00' RT

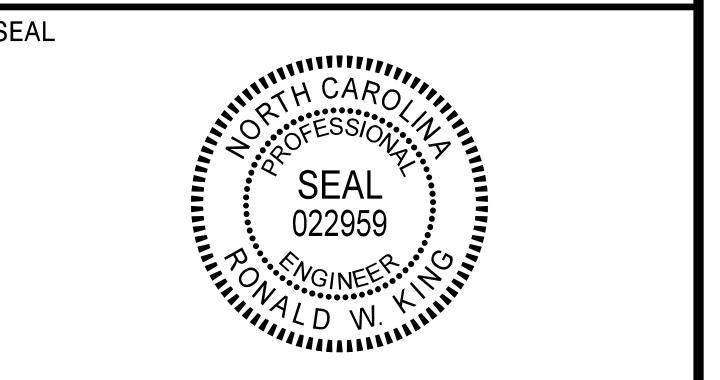


(T) STOPBAR LOCATIONS (AT SIGNALIZED INTERSECTIONS)	
⑤	-Y3- STA. 58+65.50, 49.51' LT to -Y3- STA. 58+65.50, 8.00' LT
⑥	-Y3RPC- STA. 17+05.69, 48.40' RT to -Y3RPC- STA. 17+03.49, 12.38' LT
⑦	-Y3- STA. 57+90.93, 20.00' RT to -Y3- STA. 57+90.93, 8.00' RT
⑧	-Y3- STA. 57+60.93, 8.00' RT to -Y3- STA. 57+60.93, 4.00' LT

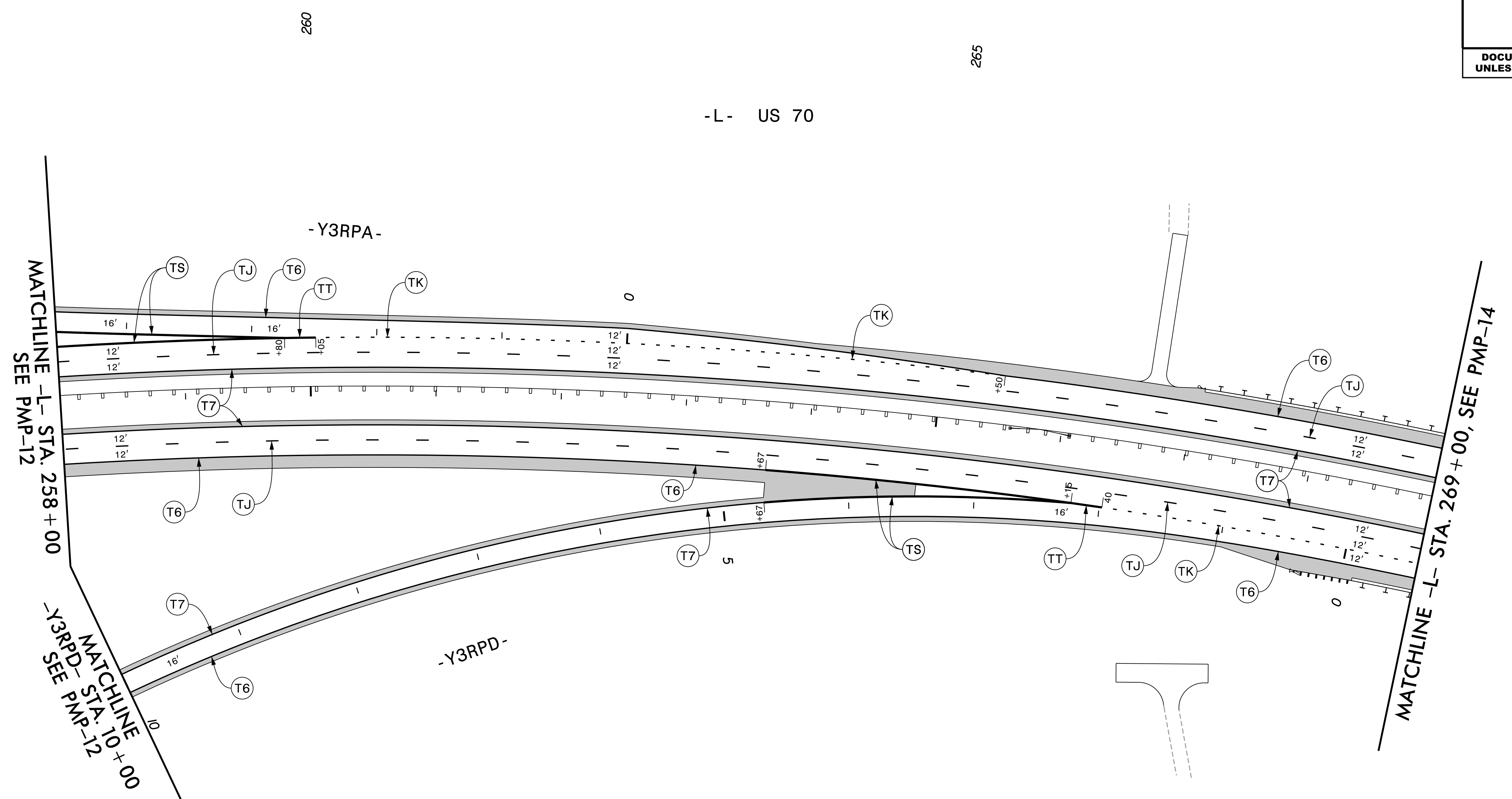
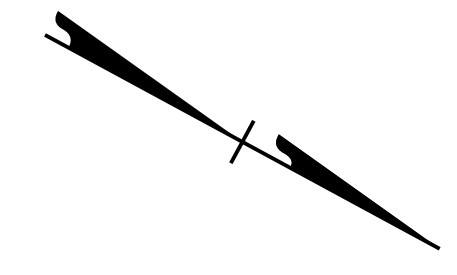


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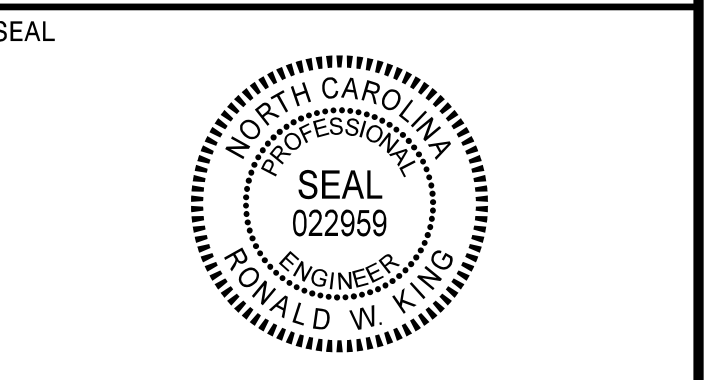


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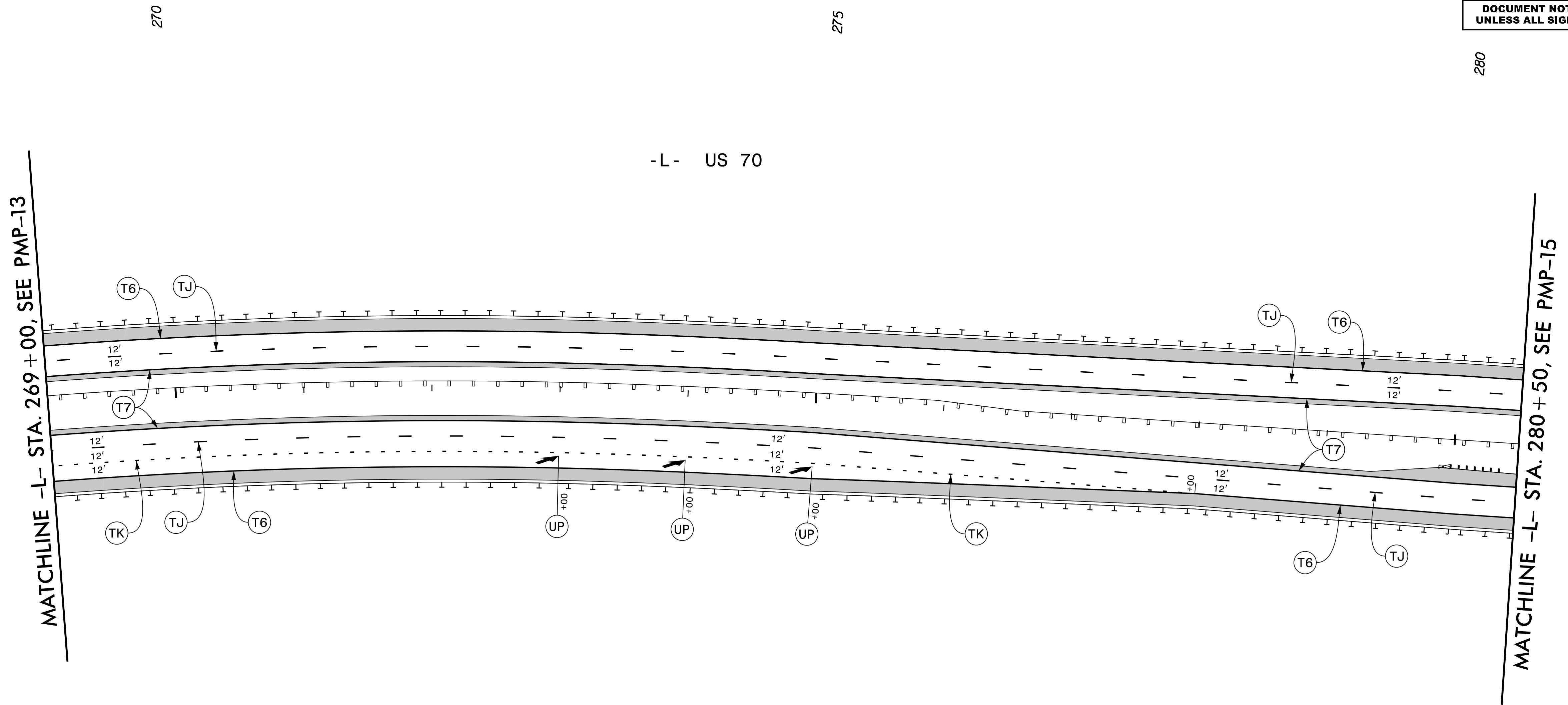
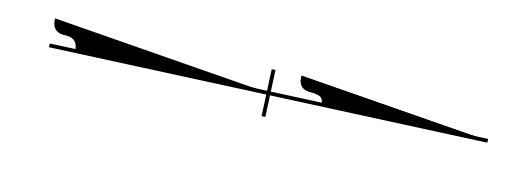


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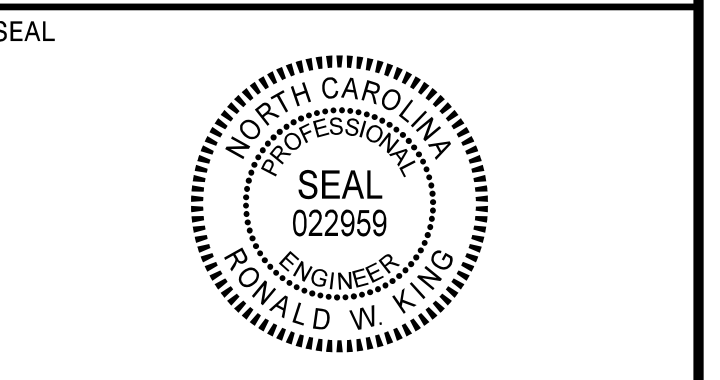


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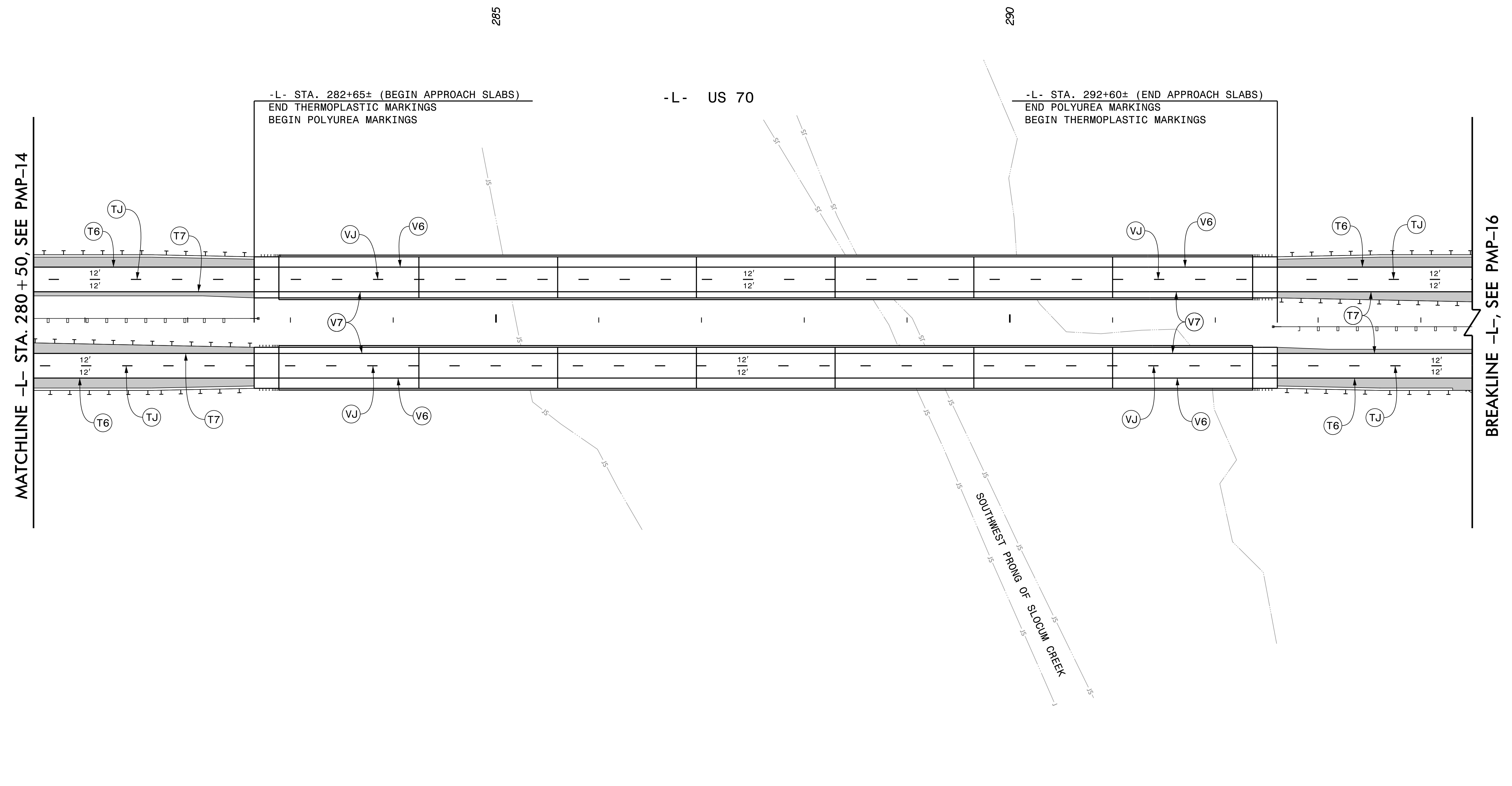
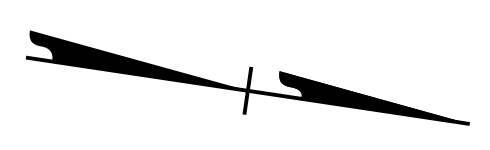


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PAVEMENT MARKING DETAIL



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

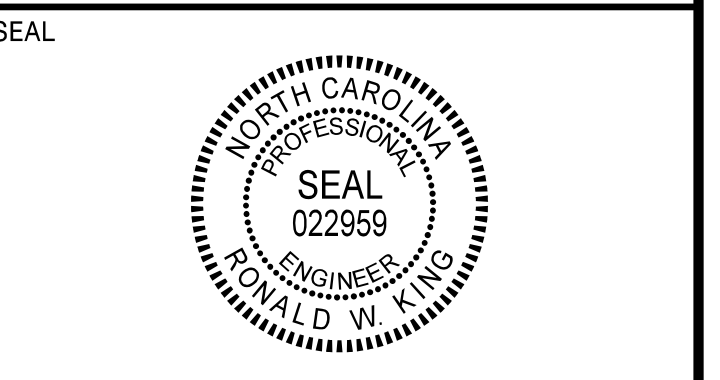


MATCHLINE -L- STA. 280 + 50, SEE PMP-14

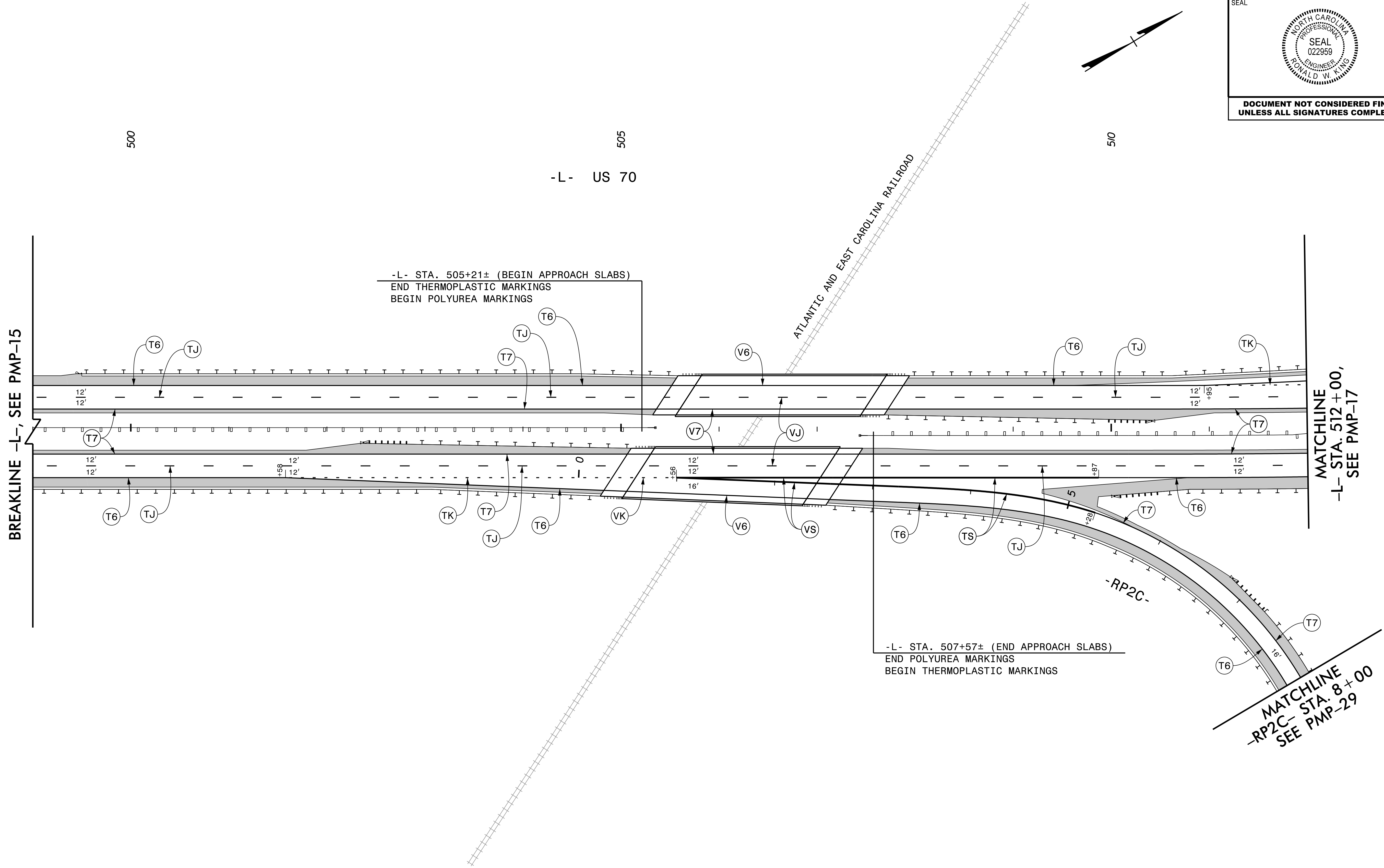
BREAKLINE -L-, SEE PMP-16

PLOT DRIVER: NCDOT_color_eng_50.plt
USER: CHARNDEN
FILE: p:\pwhdr\users\charnd\US_East_01\Documents\3322\10001376\1005864\6.0.CAD.BTM\6.2_Work\In_Progress\Marking\R1015_PM_PMP15.dgn

PAVEMENT MARKING DETAIL

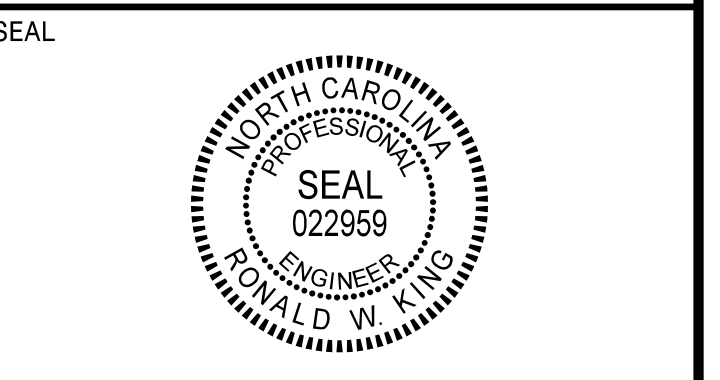


**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

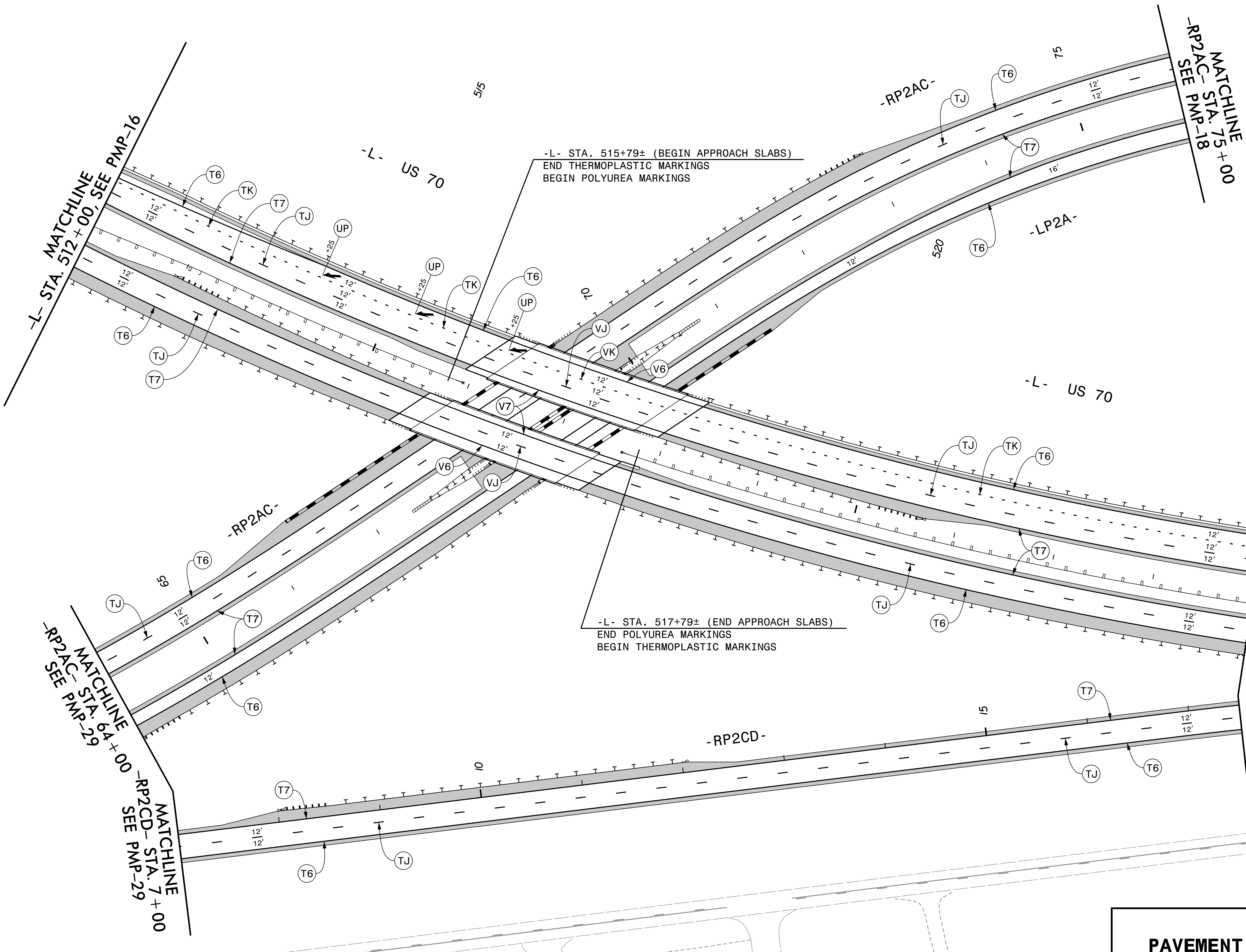


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USER: CHARNDEN
FILE: p:\pwhdr\users\charnd\US-East\01\Documents\3322\10001376\10005864\6.0.CAD\BITM\6.2_Work\In_Progress\Marking\R1015_PM_PMP16.dgn

PAVEMENT MARKING DETAIL

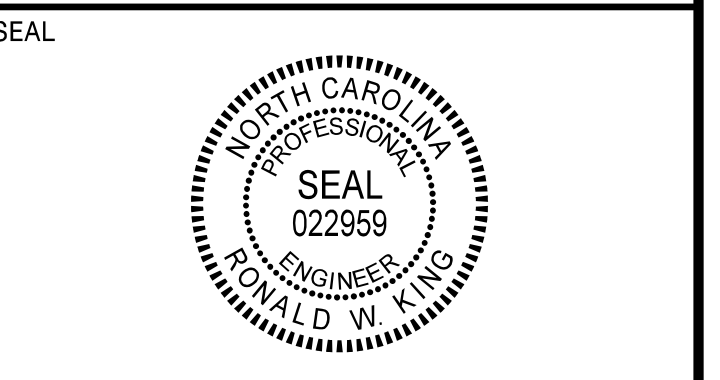


**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



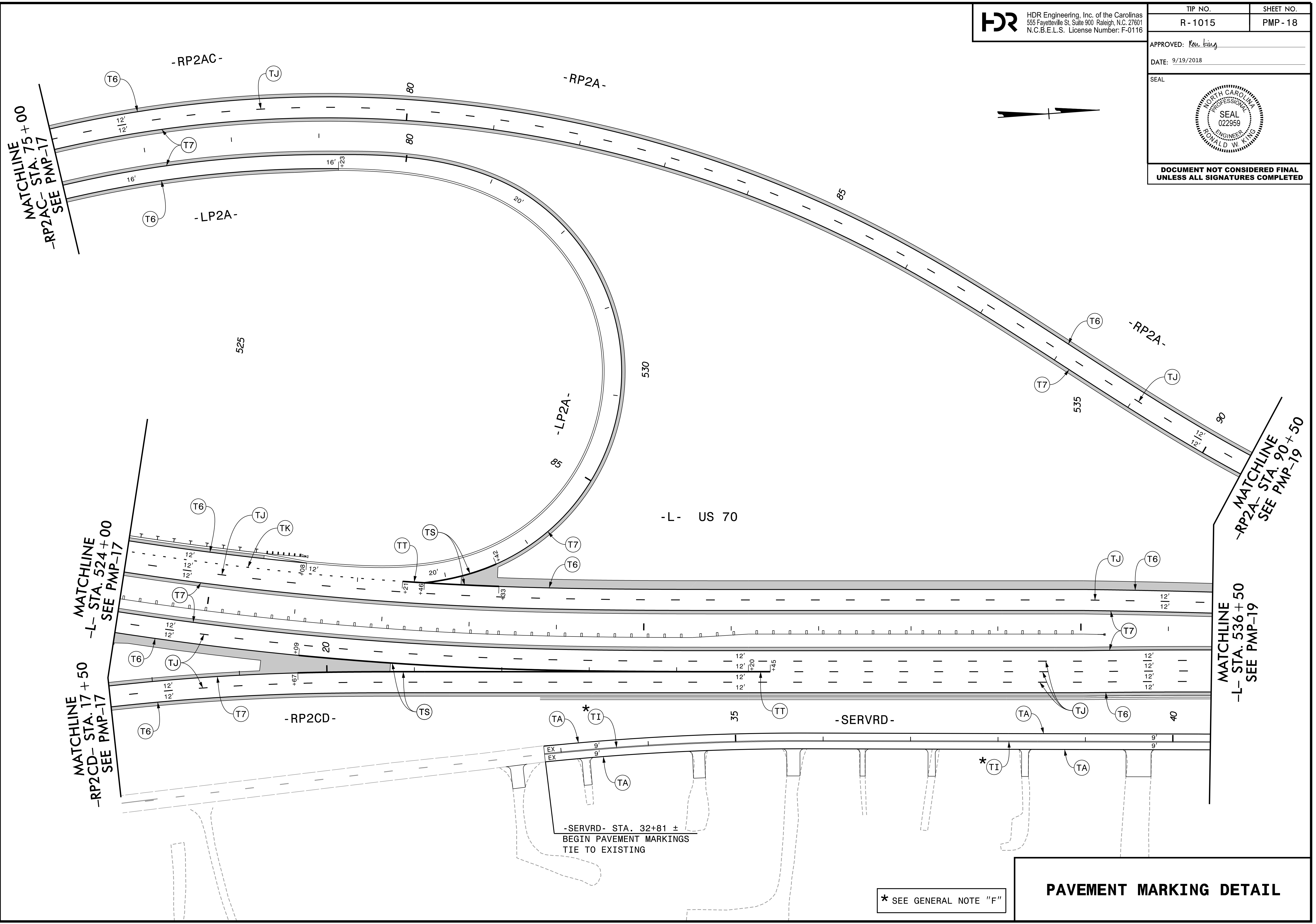
PLOT DRIVER: NCDOT_color_eng_50.plt PENTABLE: NCDOT_color.tbl
 USER: CHARNDEN DATE: 9/19/2018 TIME: 10:56:17 AM
 FILE: p:\pwhdr\users\01\HDR_US_East\01\Documents\3322\10001376\100586641\6.0_CAD_BITMAP\6.2_Work\In_Progress\Marking\R1015_PMP17.dgn

PAVEMENT MARKING DETAIL



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

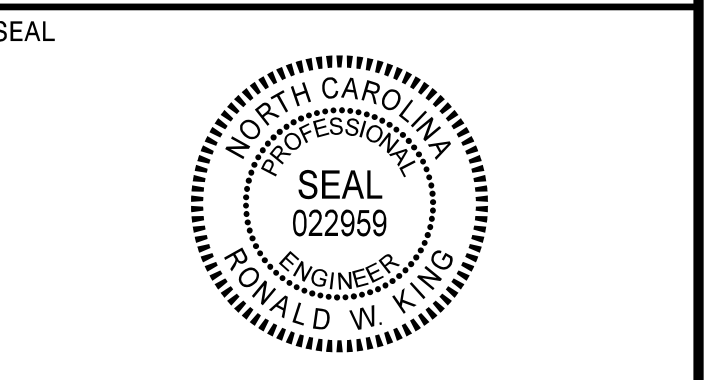
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USER: CHARNDEN
DATE: 9/19/2018
TIME: 10:56:31 AM
FILE: p:\p\p\h\users\charnd\US_East\01\Documents\3322\10001376\1005864\6.0.CAD.BTM\6.2_Work\In_Progress\Marking\RI015_PM_PMP18.dgn



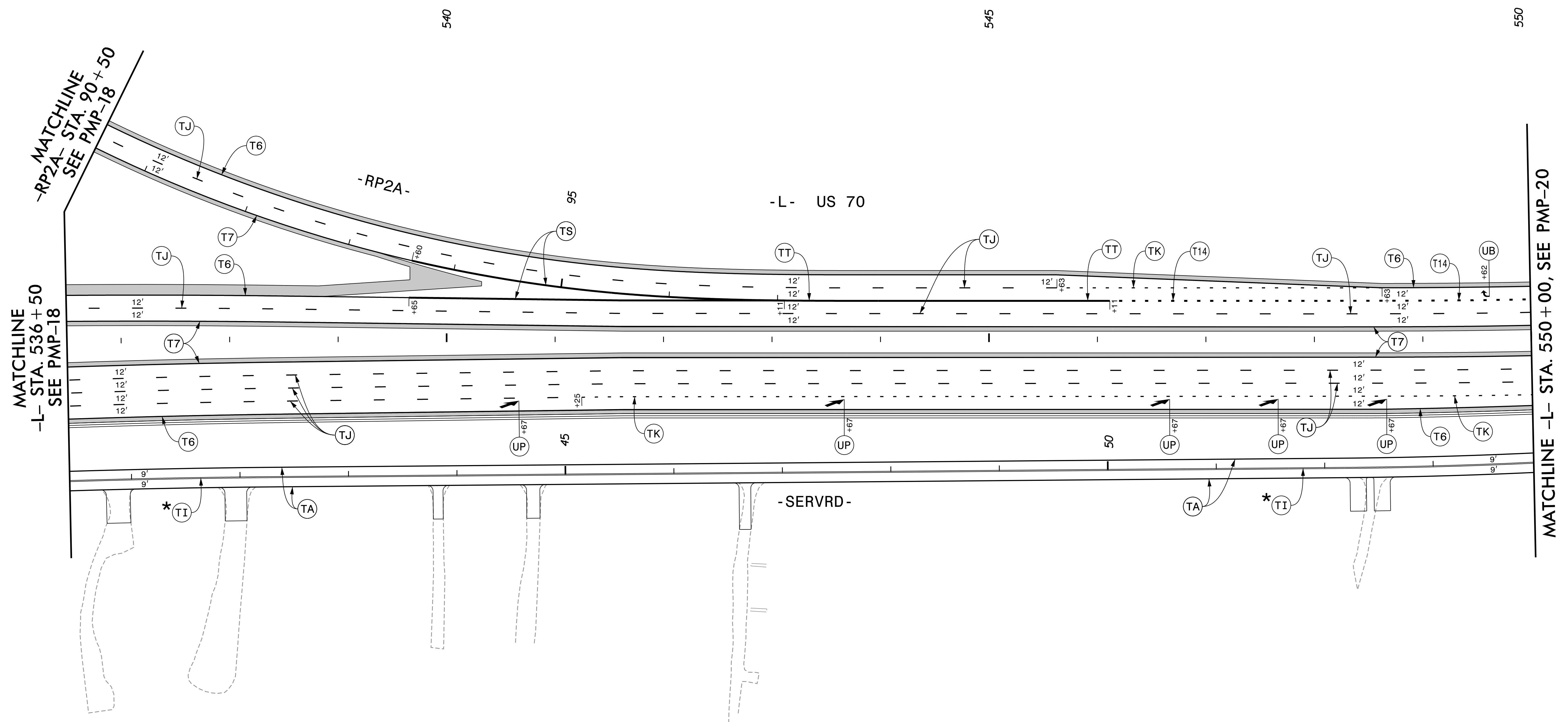
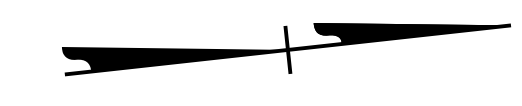
-SERVRD- STA. 32+81 ±
BEGIN PAVEMENT MARKINGS
TIE TO EXISTING

* SEE GENERAL NOTE "F"

PAVEMENT MARKING DETAIL



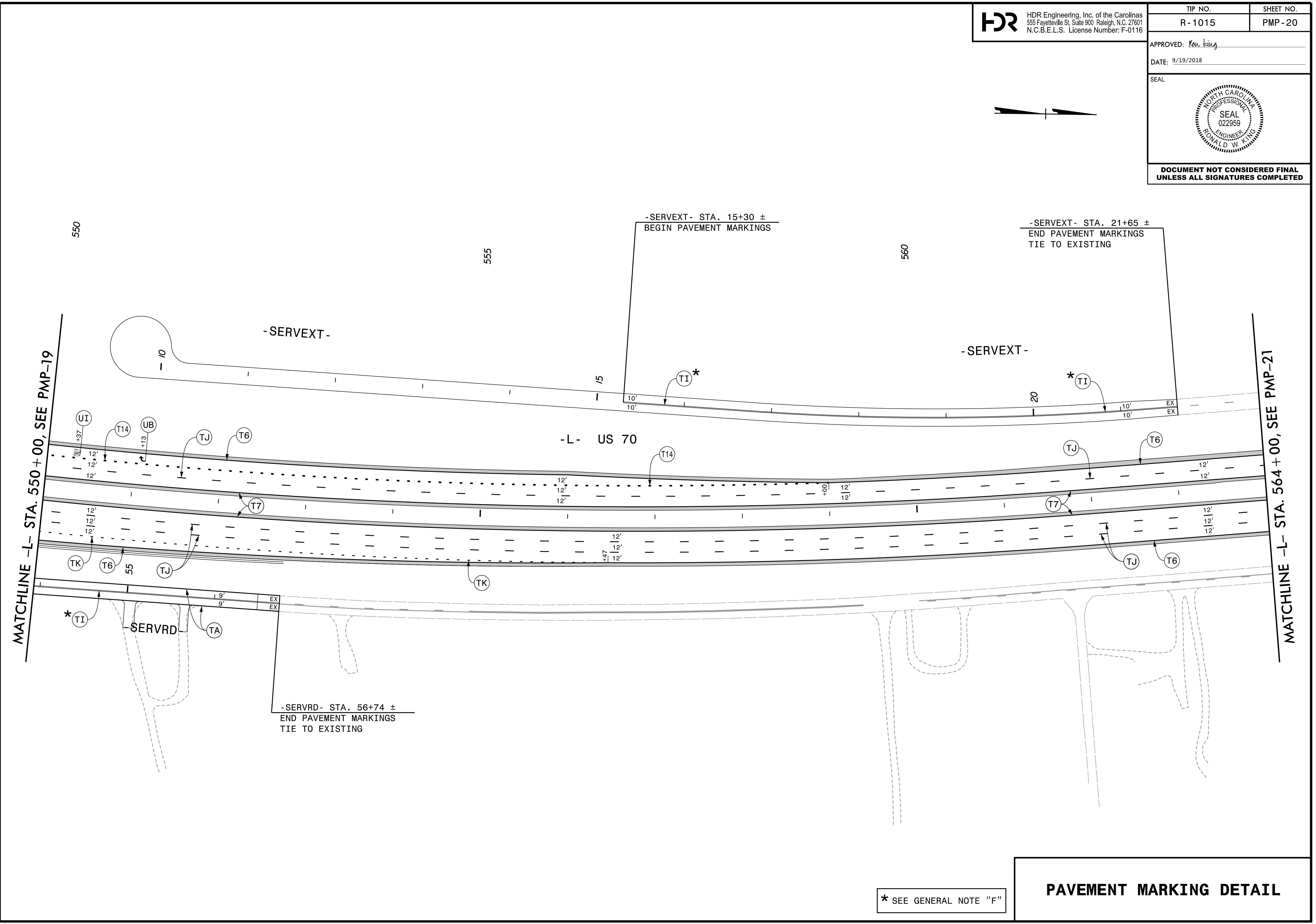
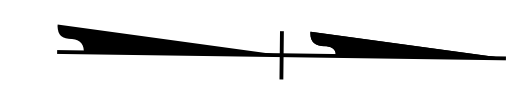
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



PLOT DRIVER: NCDOT_color_eng_50.plt PENTABLE: NCDOT_tcp.tbl
USER: CHARNDEN DATE: 9/19/2018 TIME: 10:56:42 AM
FILE: p:\pwhdr\users\01\HDR_US_East_01\Documents\3322\10001376\1005864\6.0.CAD.BTM.6.2.Work\In_Progress\Marking\RP1015_PM_PMP19.dgn

* SEE GENERAL NOTE "F"

PAVEMENT MARKING DETAIL



PLOT DRIVER: NCDOT_pdf_color_eng_50.ppt
 USER: CHARNDEN
 DATE: 9/19/2018
 TIME: 10:56:54 AM
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* SEE GENERAL NOTE "F"

PAVEMENT MARKING DETAIL

HDR Engineering, Inc. of the Carolinas
555 Fayetteville St. Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

TIP NO. R-1015	SHEET NO. PMP-21
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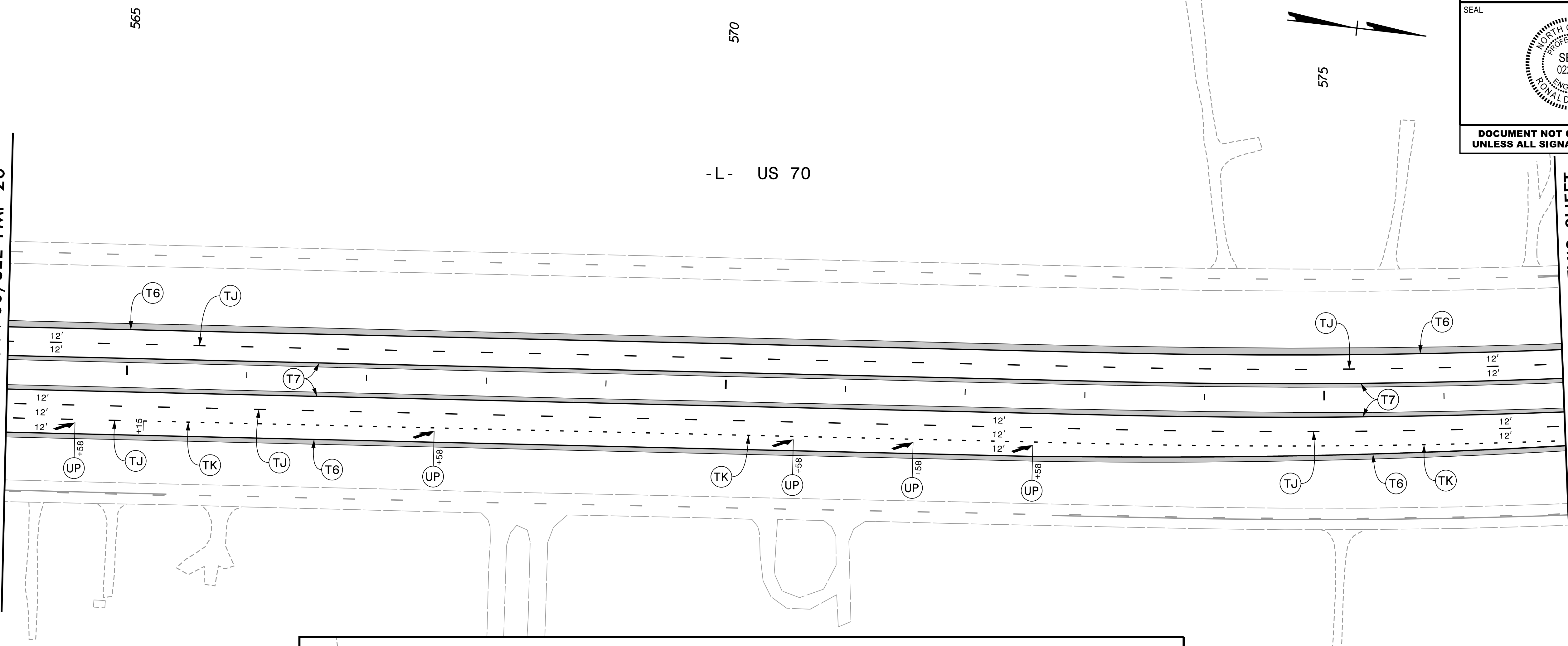
APPROVED: *Ron King*
DATE: 9/19/2018

SEAL

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

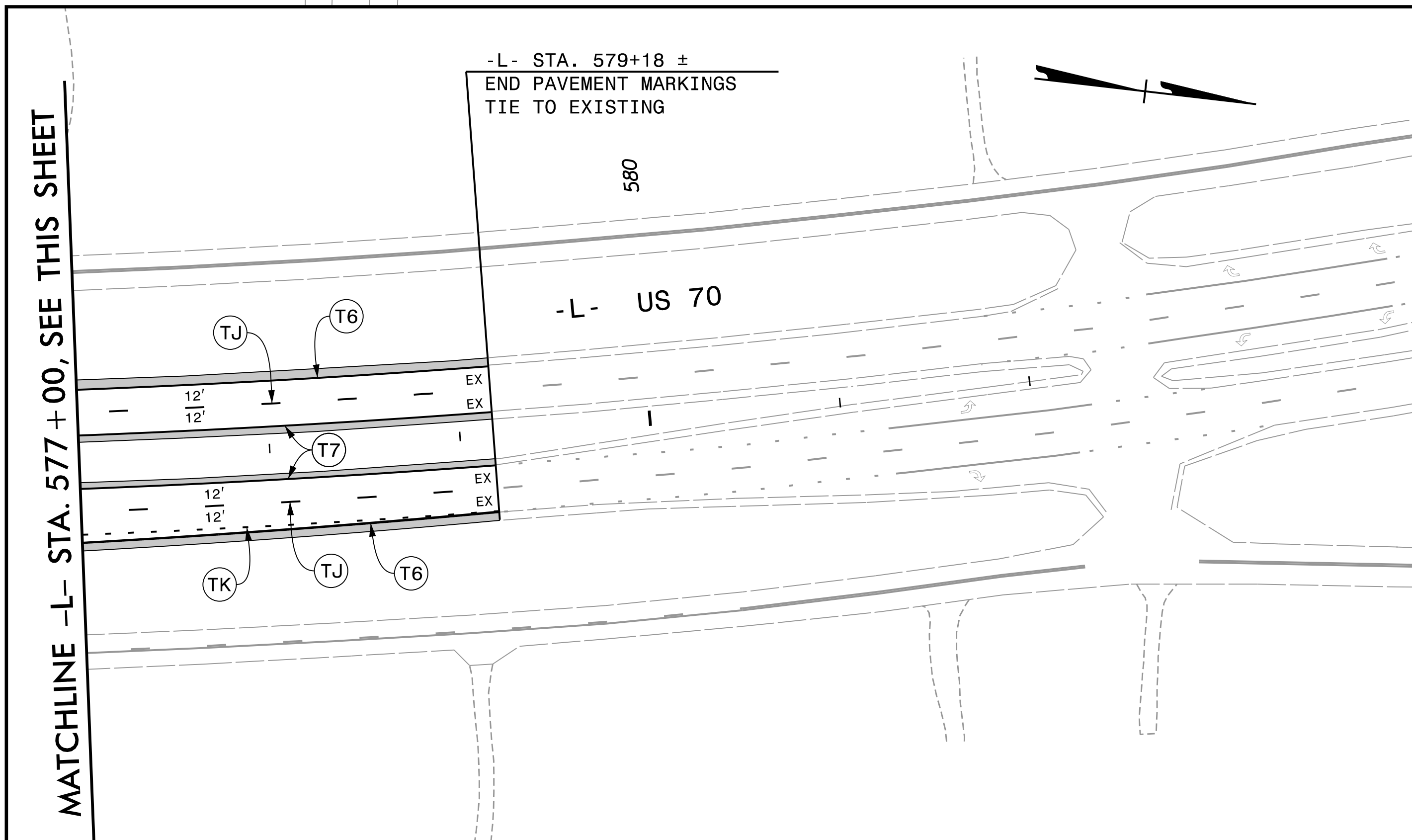
PLOT DRIVER: NCDOT_color_eng_50.plt
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USER: CHARNDEN
DATE: 9/19/2018
TIME: 10:57:05 AM
FILE: p:\pwhdr\users\charnden\us-east\01\documents\3322\10001376\10005864\6.0.CAD.BTM.6.2.Work\In_Progress\Marking\R1015.PM.PMP21.dgn

MATCHLINE -L- STA. 564 + 00, SEE PMP-20

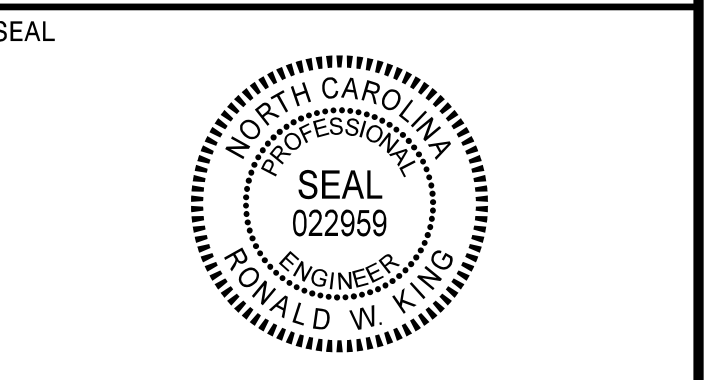


MATCHLINE -L- STA. 577 + 00, SEE THIS SHEET

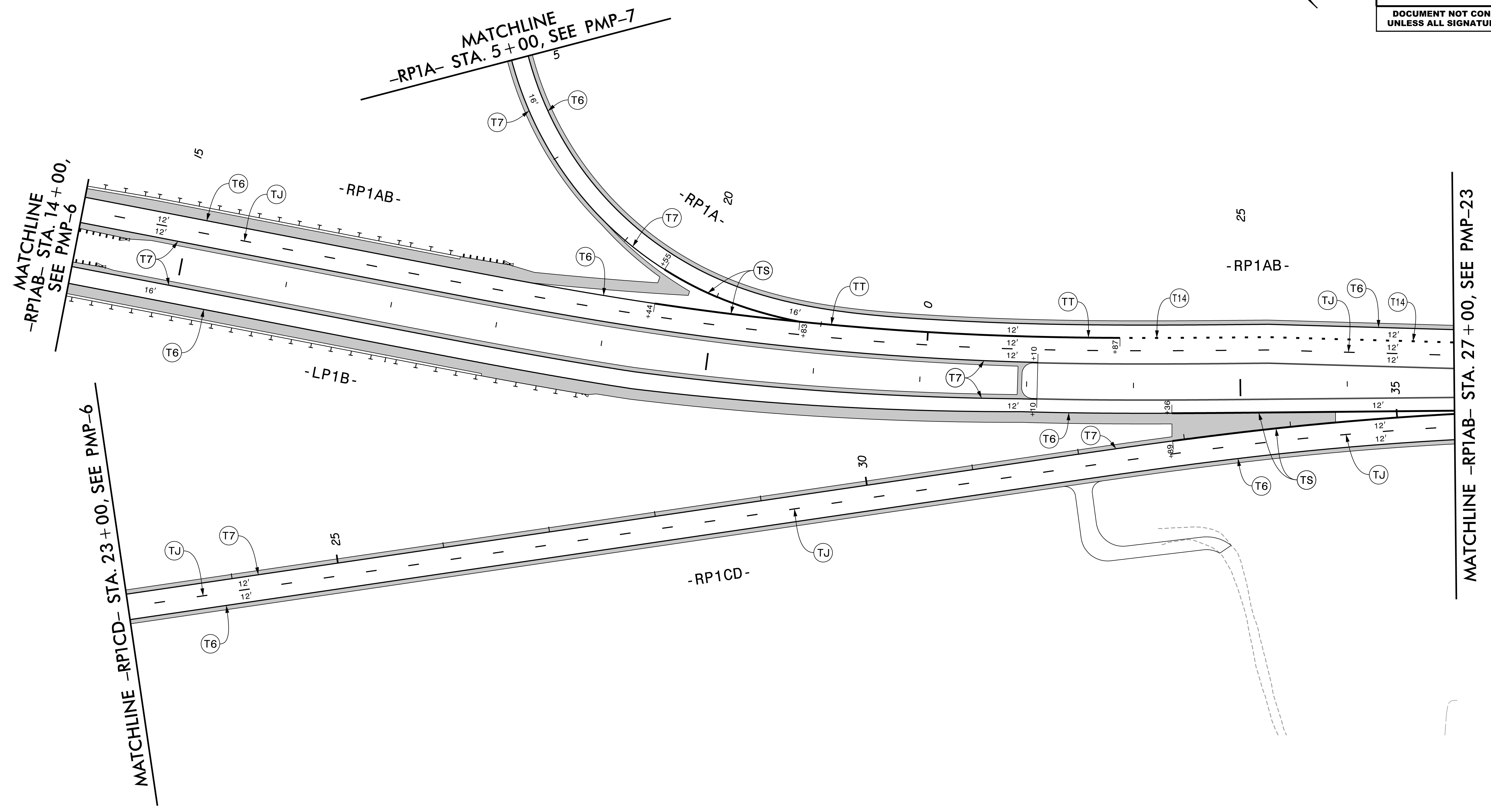
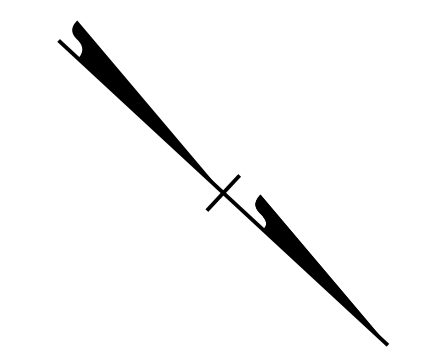
MATCHLINE -L- STA. 577 + 00, SEE THIS SHEET



PAVEMENT MARKING DETAIL



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



PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARNDEN
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PENTABLE: NCDOT_color.tbl
 TIME: 10:57:49 AM

DATE: 9/19/2018

PAVEMENT MARKING DETAIL

TIP NO.	SHEET NO.
R-1015	PMP-23

APPROVED: *Ron King*

DATE: 9/19/2018

SEAL



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

(T2) STOPBAR LOCATIONS (AT SIGNALIZED INTERSECTIONS)

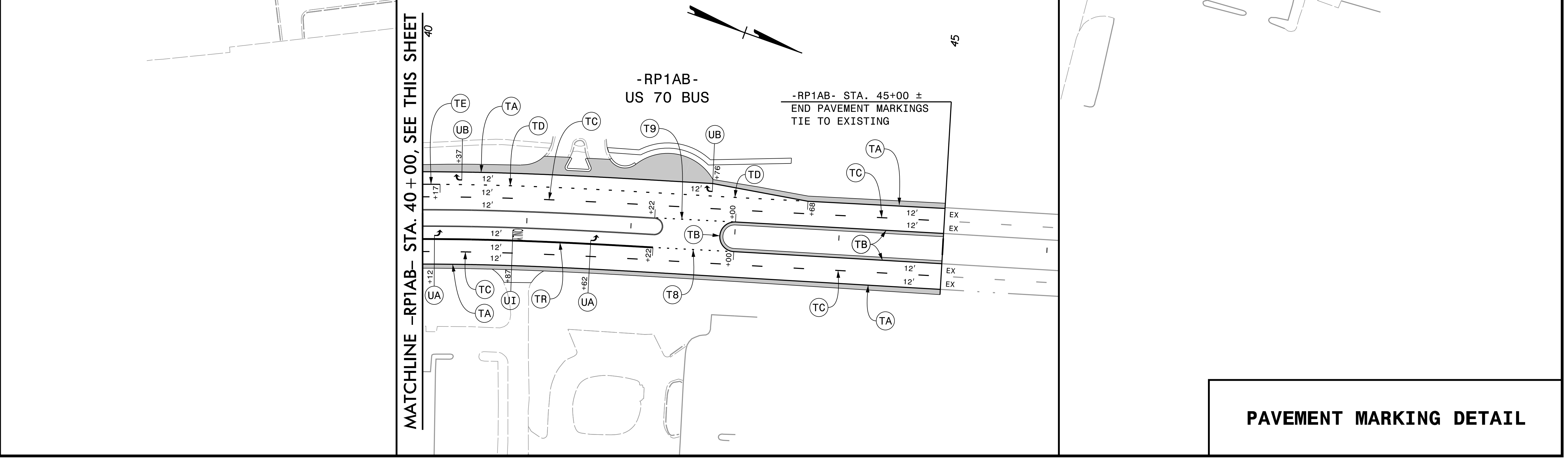
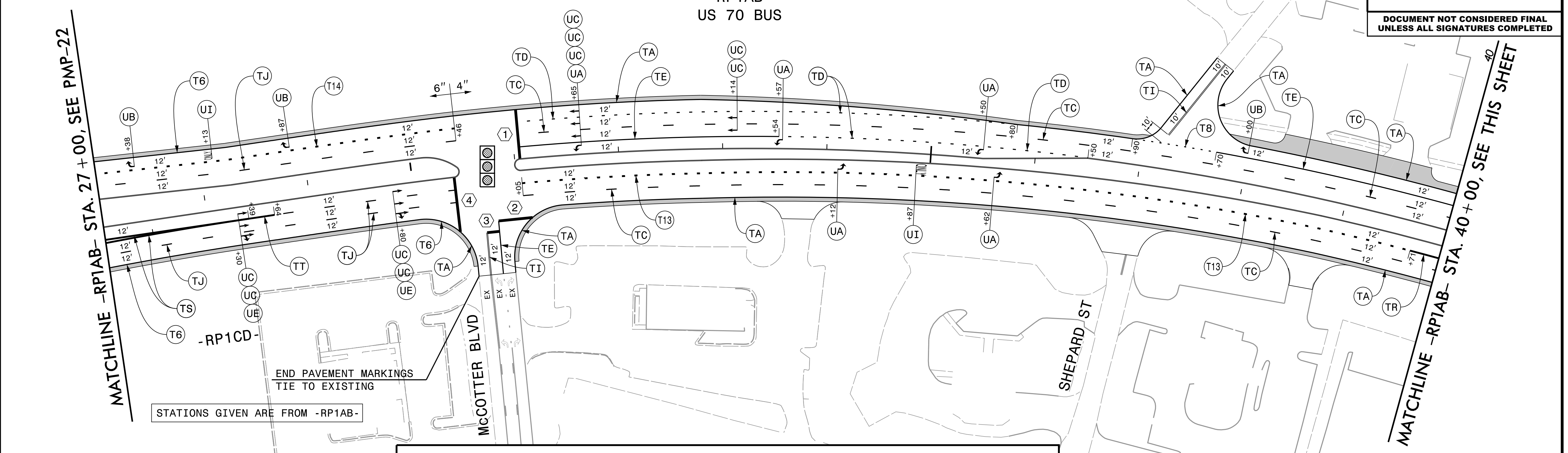
①	-RP1AB- STA. 31+05.13, 47.50' LT to -RP1AB- STA. 31+05.13, 0.25' LT
②	-RP1AB- STA. 30+78.76, 57.50' RT to -RP1AB- STA. 31+12.37, 57.20' RT
③	-RP1AB- STA. 30+66.33, 67.50' RT to -RP1AB- STA. 30+78.67, 67.50' RT
④	-RP1AB- STA. 30+40.26, 11.50' RT to -RP1AB- STA. 30+40.26, 64.01' RT

MATCHLINE -RP1AB- STA. 27+00, SEE PMP-22

MATCHLINE -RP1AB- STA. 40+00, SEE THIS SHEET

**-RP1AB-
US 70 BUS**

**-RP1AB-
US 70 BUS**



STATIONS GIVEN ARE FROM -RP1AB-

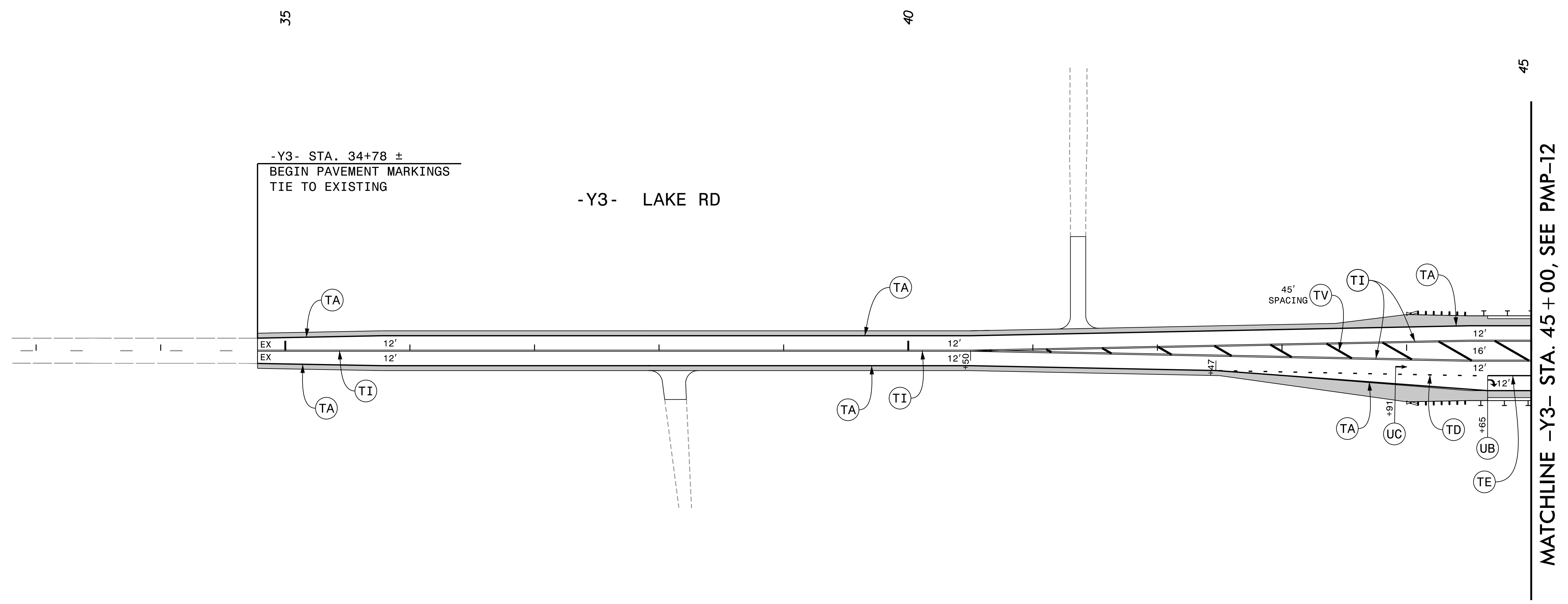
END PAVEMENT MARKINGS
TIE TO EXISTING

-RP1AB- STA. 45+00 ±
END PAVEMENT MARKINGS
TIE TO EXISTING

PAVEMENT MARKING DETAIL



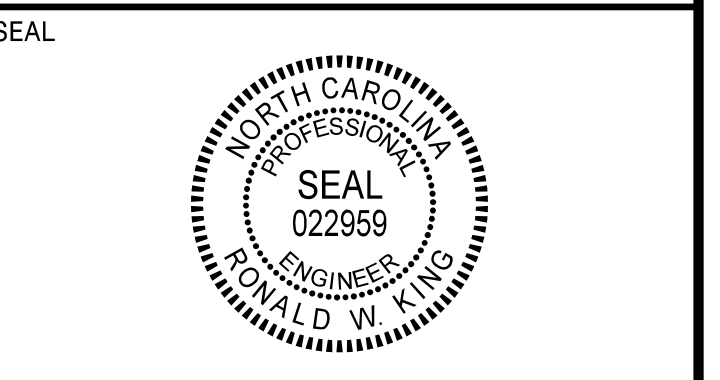
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**



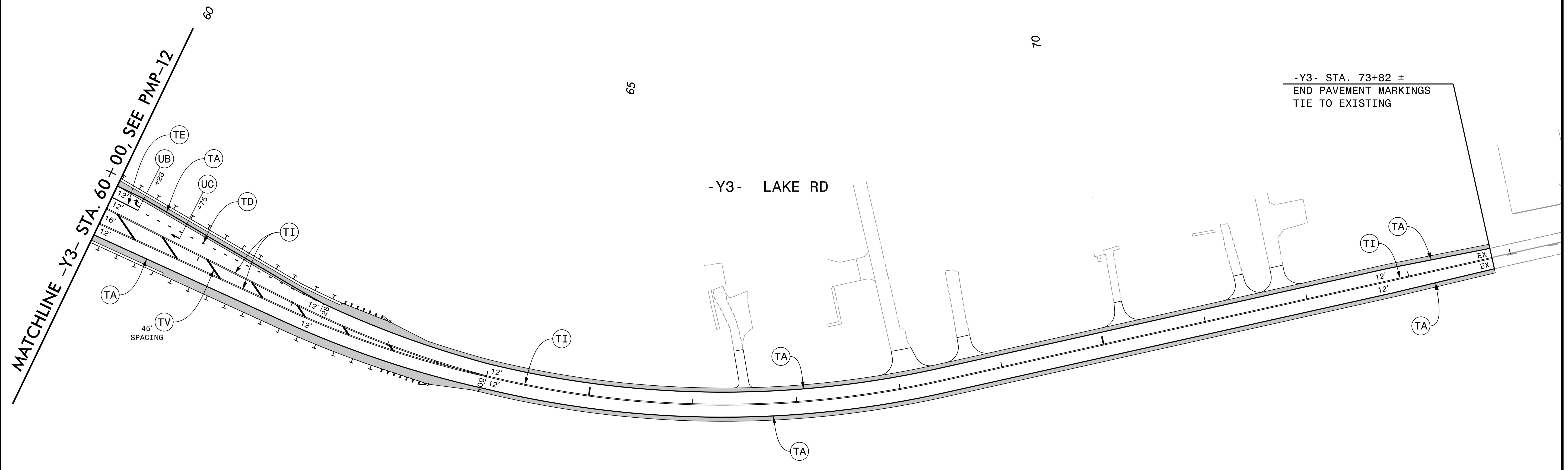
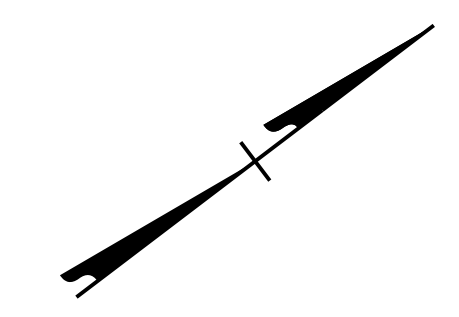
PLOT DRIVER: NCDOT_pdf_color_eng_50.ppt PENTABLE: NCDOT_tcp.tbl
 USER: CHARNDEN DATE: 9/19/2018 TIME: 10:57:44 AM
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* SEE GENERAL NOTE "F"

PAVEMENT MARKING DETAIL



**DOCUMENT NOT CONSIDERED FINAL
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PLOT DRIVER: NCDOT_color_eng_50.plt
 USER: CHARNDEN
 FILE: p:\p\h\h\users\01\HDR_US_East_01\Documents\3322\10001376\10008664\6.0.CAD.BTM\6.2.Work\In_Progress\Marking\R1015_PM_PMP25.dgn
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 DATE: 9/19/2018
 TIME: 10:57:55 AM

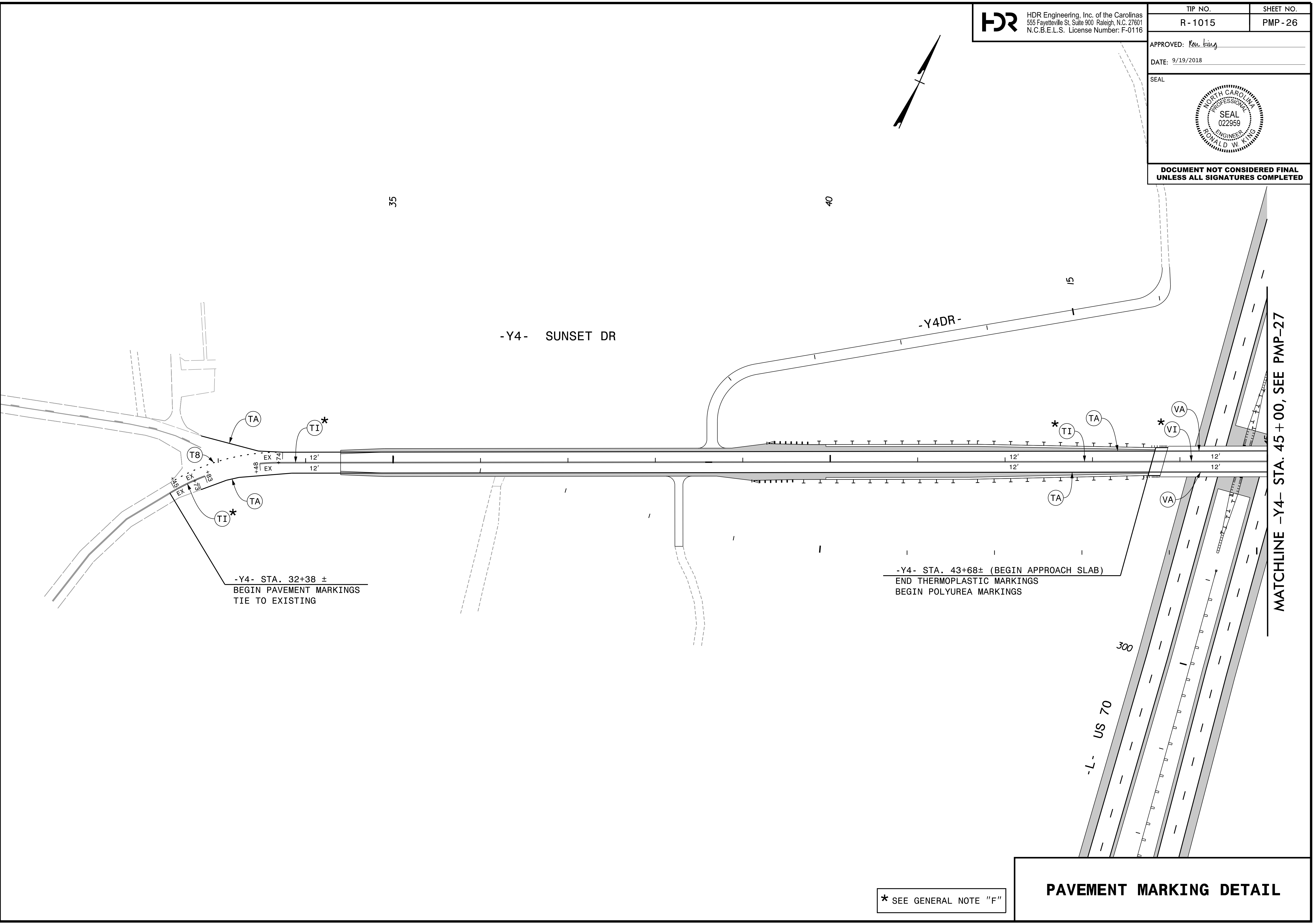
* SEE GENERAL NOTE "F"

PAVEMENT MARKING DETAIL



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

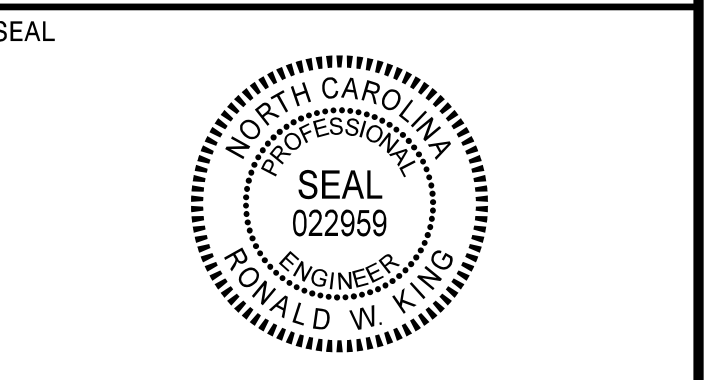
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USER: CHARNDEN
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PENTABLE: NCDOT_tcp.tbl
DATE: 9/19/2018
TIME: 10:58:06 AM



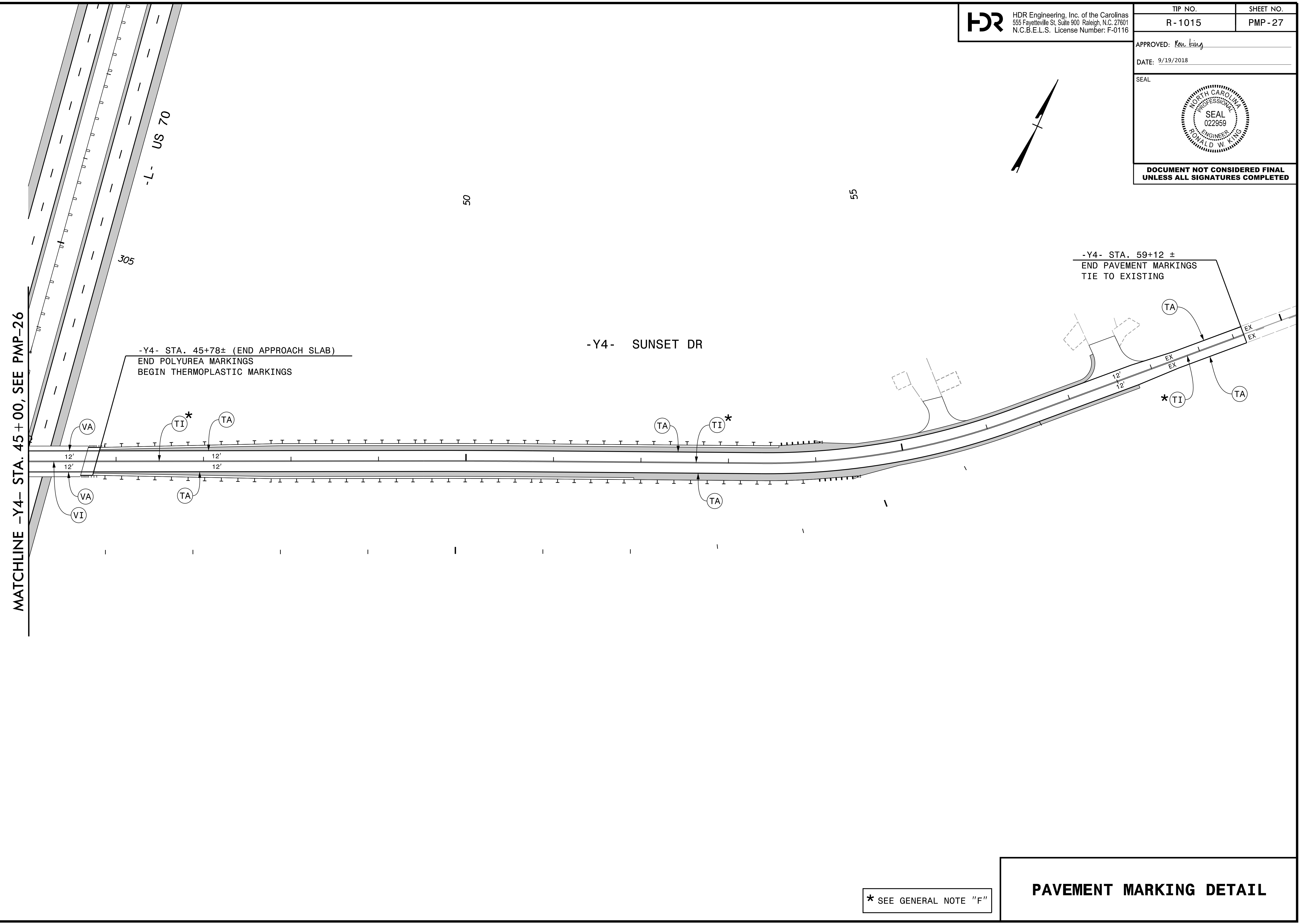
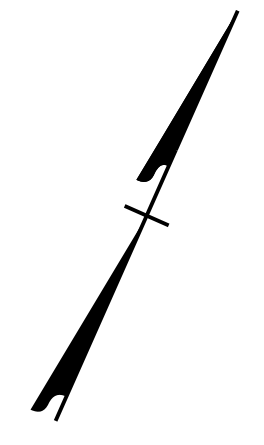
* SEE GENERAL NOTE "F"

PAVEMENT MARKING DETAIL

MATCHLINE -Y4- STA. 45+00, SEE PMP-27



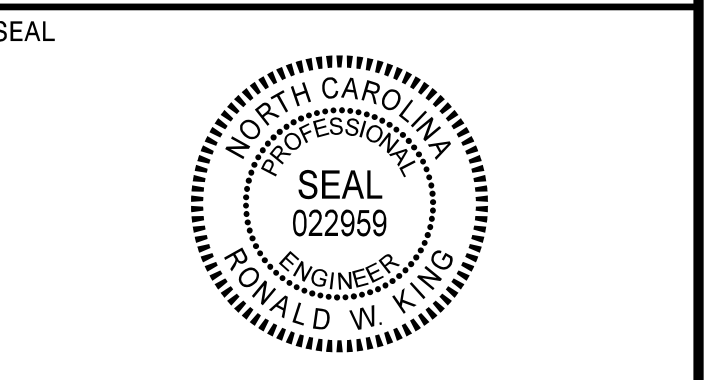
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



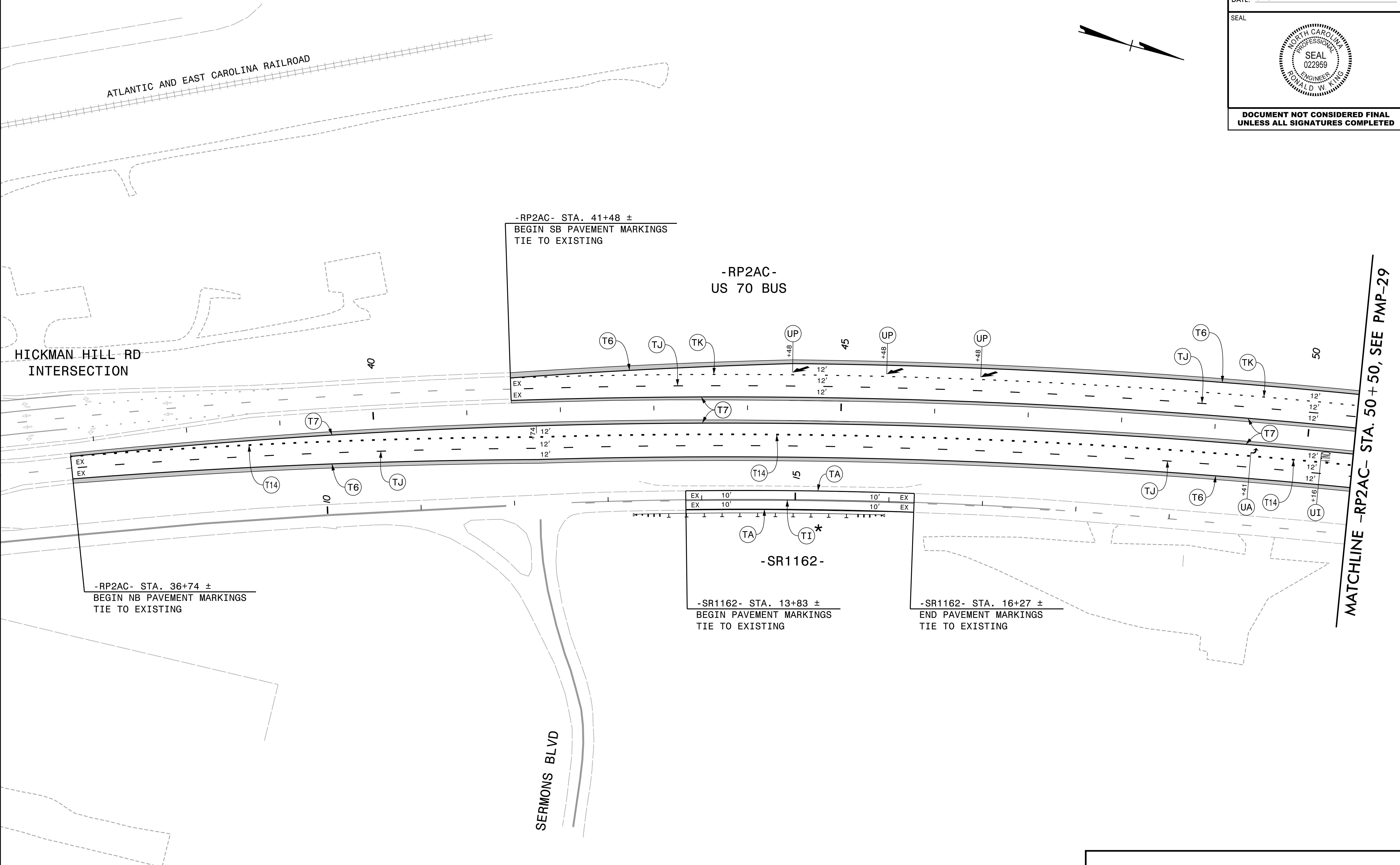
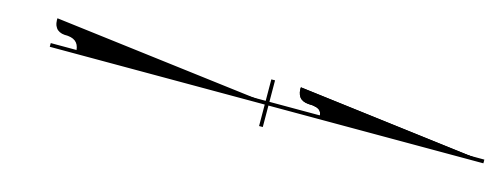
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 USER: CHARNDEN
 FILE: p:\pwhdr\users\charnd\US_East_01\Documents\3322\10001376\10008664\6.0_CAD_BIM\6.2_Work\In_Progress\Marking\R1015_PM_PMP27.dgn
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 DATE: 9/19/2018
 TIME: 10:58:17 AM

* SEE GENERAL NOTE "F"

PAVEMENT MARKING DETAIL



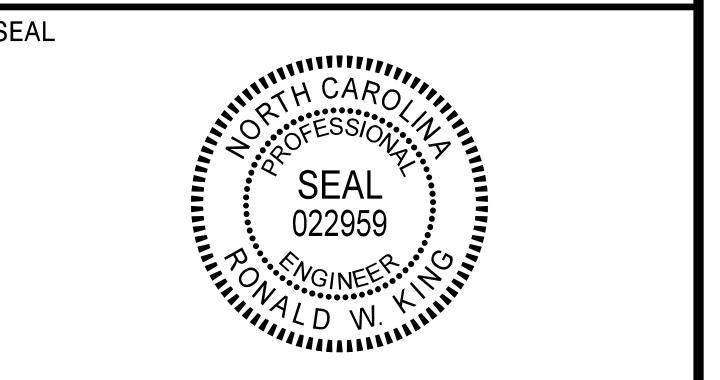
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**



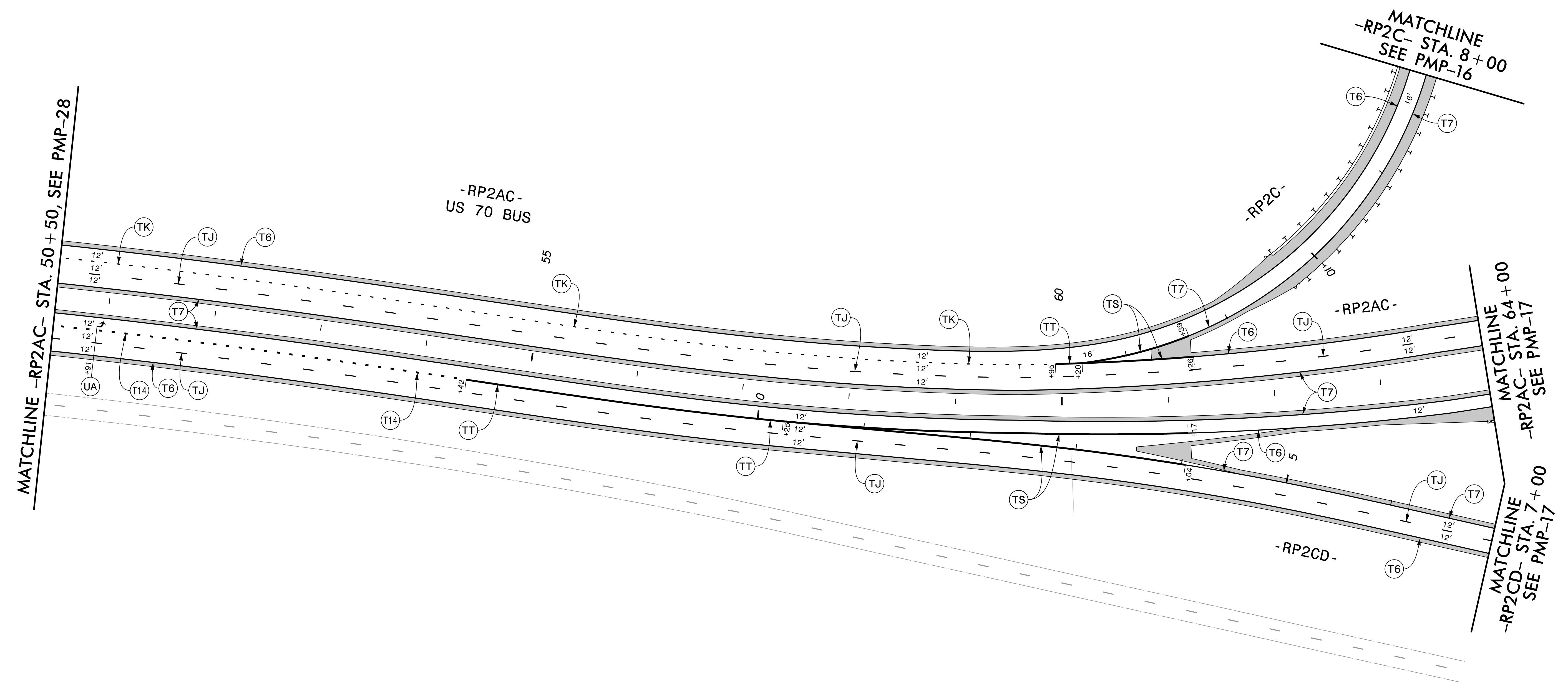
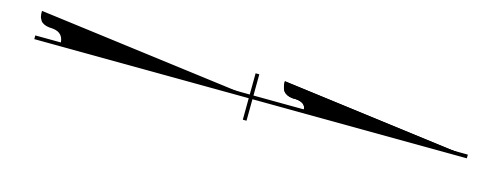
PLOT DRIVER: NCDOT_color_eng_50.plt
USER: CHARNDEN
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DATE: 9/19/2018
TIME: 10:58:28 AM

* SEE GENERAL NOTE "F"

PAVEMENT MARKING DETAIL



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



PLOT DRIVER: NCDOT_color_eng_50.plt
USER: CHARNDEN
FILE: p:\pwhdr\users\charnd\US_East_01\Documents\3322\10001376\1005864\6.0.CAD.BTM.6.2.Work\In_Progress\Marking\R1015_PM.PMP29.dgn
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DATE: 9/19/2018
TIME: 10:58:42 AM

PAVEMENT MARKING DETAIL