

3/16/2022  
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User:CDL85144

**CONTRACT:**

**T.I.P.: I-5987B**

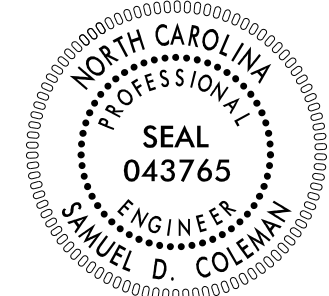
**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
ROBESON COUNTY**

**LOCATION: I-95 FROM NORHT OF SR 1758 (MCDUFFIE CROSSING RD.)  
TO NORTH OF SR 1723 (PARKTON TOBEMORY RD.)**

PLANS PREPARED FOR THE NCDOT BY:

**M** MOTT MACDONALD 1 & E, LLC  
1101 HAYNES STREET, SUITE 101  
RALEIGH, NC 27604  
**M**  
MOTT  
MACDONALD NC LICENSE NO. F-0669

<b>TIP NO.</b> I - 5987B	<b>SHEET NO.</b> PMP - 1
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DATE: _____	
SEAL 	
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**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
1205.06	PAVEMENT MARKINGS - LANE DROPS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
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

**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
I-95	THERMOPLASTIC	SNOWPLOWABLE
BRIDGE DECKS	COLD APPLIED PLASTIC TYPE II	RAISED
Y-LINES	THERMOPLASTIC	RAISED

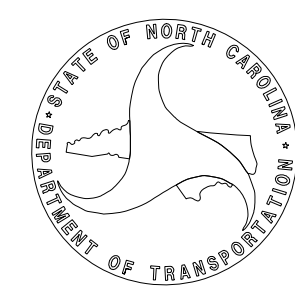
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING (COLD APPLIED PLASTIC) PAVEMENT MARKING MATERIAL.
- E) 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.
- F) TYPE III COLD APPLIED PLASTIC MAY BE USED IN LIEU OF TYPE II COLD APPLIED PLASTIC. IF TYPE III COLD APPLIED PLASTIC IS USED, IT SHALL BE PAID FOR USING THE TYPE II COLD APPLIED PLASTIC PAY ITEM.

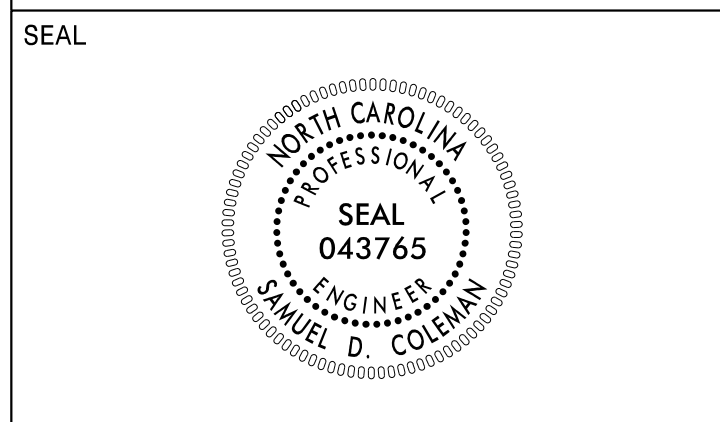
**INDEX**

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE SHEET
PMP-2	PAVEMENT MARKING SCHEDULE
PMP-3-27	PAVEMENT MARKING DETAIL SHEETS

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

AYMAN ALQUDWAH P.E. SIGNING & DELINEATION REGIONAL ENGINEER  
MATTHEW TRACEY P.E. SIGNING & DELINEATION PROJECT DESIGN ENGINEER





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## FINAL PAVEMENT MARKING SCHEDULE

THERMOPLASTIC		COLD APPLIED PLASTIC		
Symbol	Description	Symbol	Description	
T1	WHITE EDGELINE (4", 90 MIL)	C1	WHITE EDGELINE (4")	
T2	WHITE SOLID LANE LINE (4", 90 MIL)	C11	YELLOW SINGLE CENTER (4")	
T3	10 FT. WHITE SKIP (4", 90 MIL)	C13	YELLOW DOUBLE CENTER (4")	
T4	3 FT. - 9 FT./SP WHITE MINISKIP (4", 90 MIL)	C20	WHITE EDGELINE (6")	
T5	2 FT. - 6 FT./SP WHITE MINISKIP (4", 90 MIL)	C22	10 FT. WHITE SKIP (6")	
T11	YELLOW SINGLE CENTER (4", 90 MIL)	C30	YELLOW EDGELINE (6")	
T12	10 FT. YELLOW SKIP (4", 90 MIL)	<b>PAVEMENT MARKERS</b>		
T13	YELLOW DOUBLE CENTER (4", 90 MIL)	Symbol	Description	Color
T20	WHITE EDGELINE (6", 90 MIL)	MA	PERMANENT RAISED MARKER	Yellow & Yellow
T21	WHITE SOLID LANE LINE (6", 90 MIL)	MB	PERMANENT RAISED MARKER	Crystal & Red
T22	10 FT. WHITE SKIP (6", 90 MIL)	MF	SNOWPLOWABLE MARKER	Crystal & Red
T23	3 FT. - 9 FT./SP WHITE MINISKIP (6", 90 MIL)			
T30	YELLOW EDGELINE (6", 90 MIL)			
T40	WHITE GORELINE (8", 90 MIL)			
T42	YELLOW DIAGONAL (8", 90 MIL)			
T43	WHITE SOLID LANE LINE (8", 90 MIL)			
T44	3 FT. - 9 FT./SP WHITE MINISKIP (8", 90 MIL)			
T45	3 FT. - 3 FT./SP WHITE MINISKIP (8", 90 MIL) (Roundabouts only)			
T50	WHITE GORELINE (12", 90 MIL)			
T53	WHITE SOLID LANE LINE (12", 90 MIL)			
T61	WHITE STOPBAR (24", 90 MIL)			
T70	LEFT TURN ARROW (90 MIL)			
T71	RIGHT TURN ARROW (90 MIL)			
T72	STRAIGHT ARROW (90 MIL)			
T73	COMBO. LEFT/STRAIGHT ARROW (90 MIL)			
T79	MERGE ARROW (90 MIL)			
T100	ALPHANUMERIC CHAR. (90 MIL)			
T102	12" YIELD LINE TRIANGLE (90 MIL)			
T104	ROUTE SHIELD 6 FT x 15 FT			
T112	FISH-HOOK RIGHT/STRAIGHT ARROW (90 MIL)			
T117	FISH-HOOK W/CIRCLE LEFT/STRAIGHT ARROW (90 MIL)			

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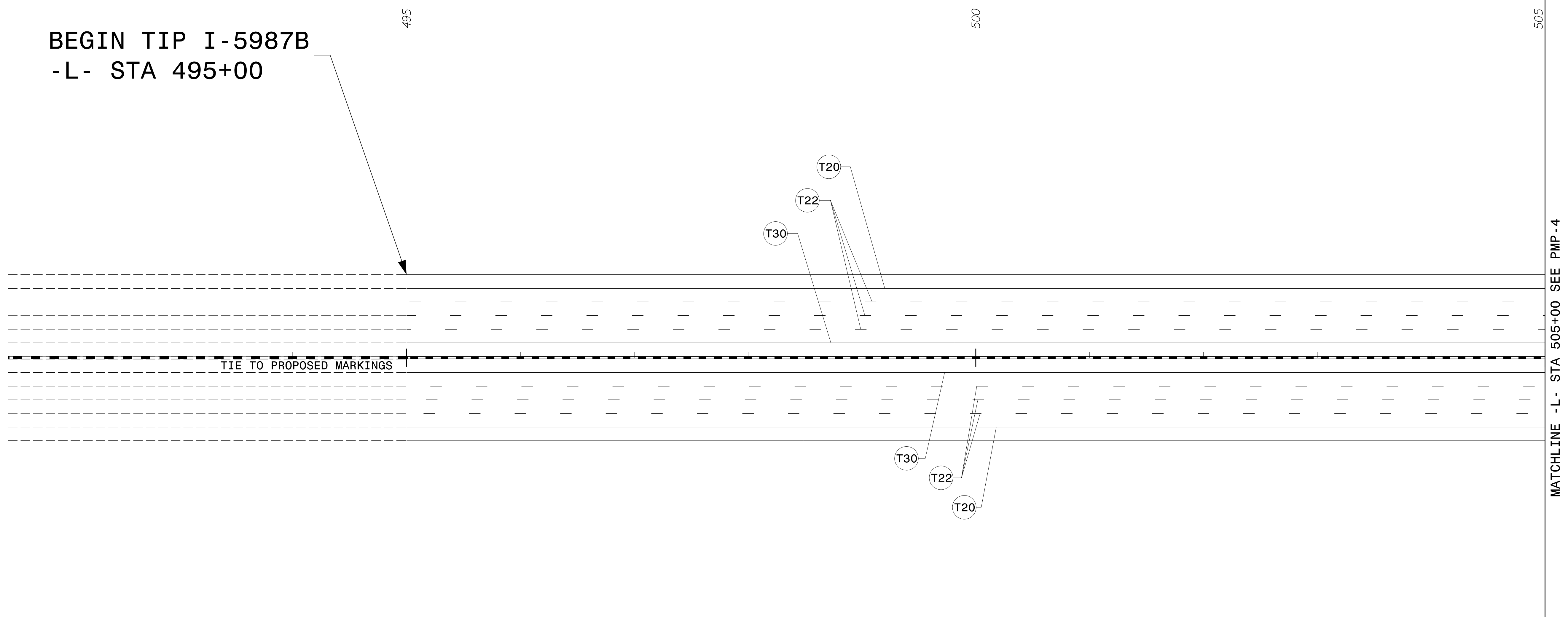
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PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-3

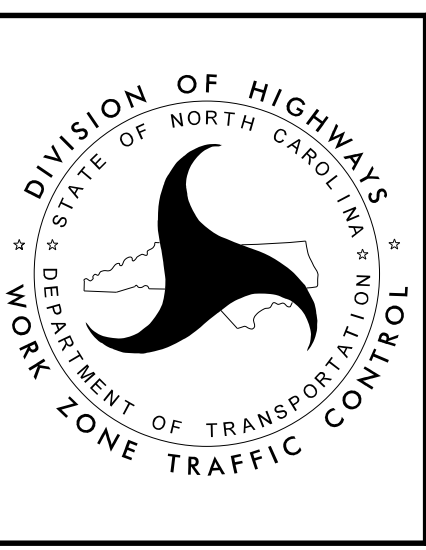
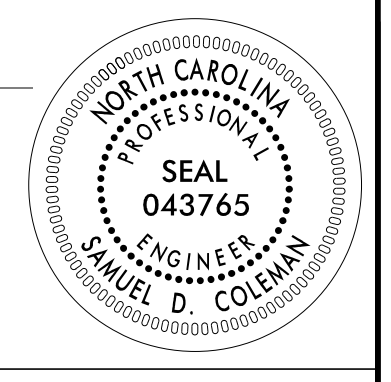
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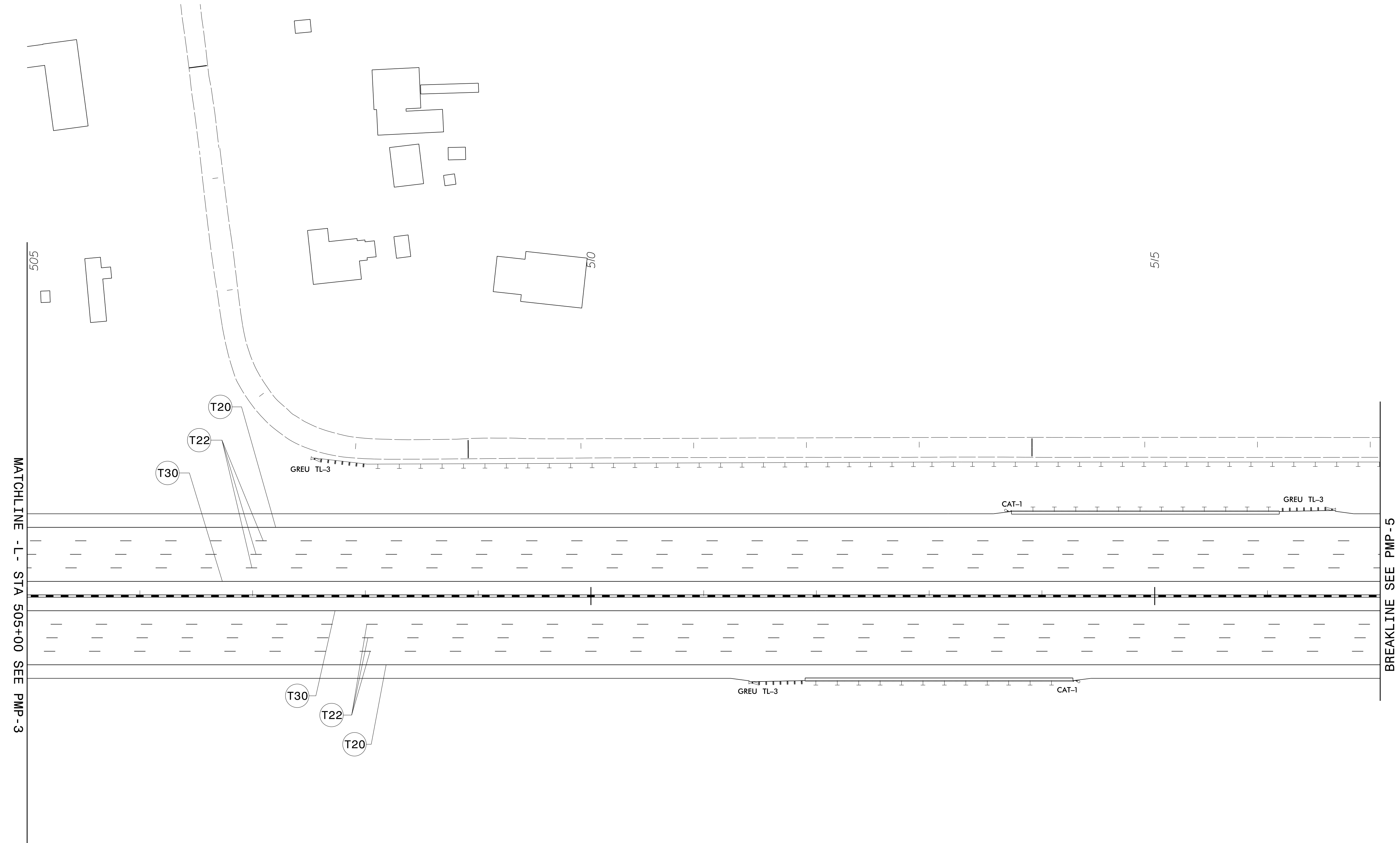
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PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-4

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MATCHLINE - L - STA 505+00 SEE PMP-3

BREAKLINE SEE PMP-5

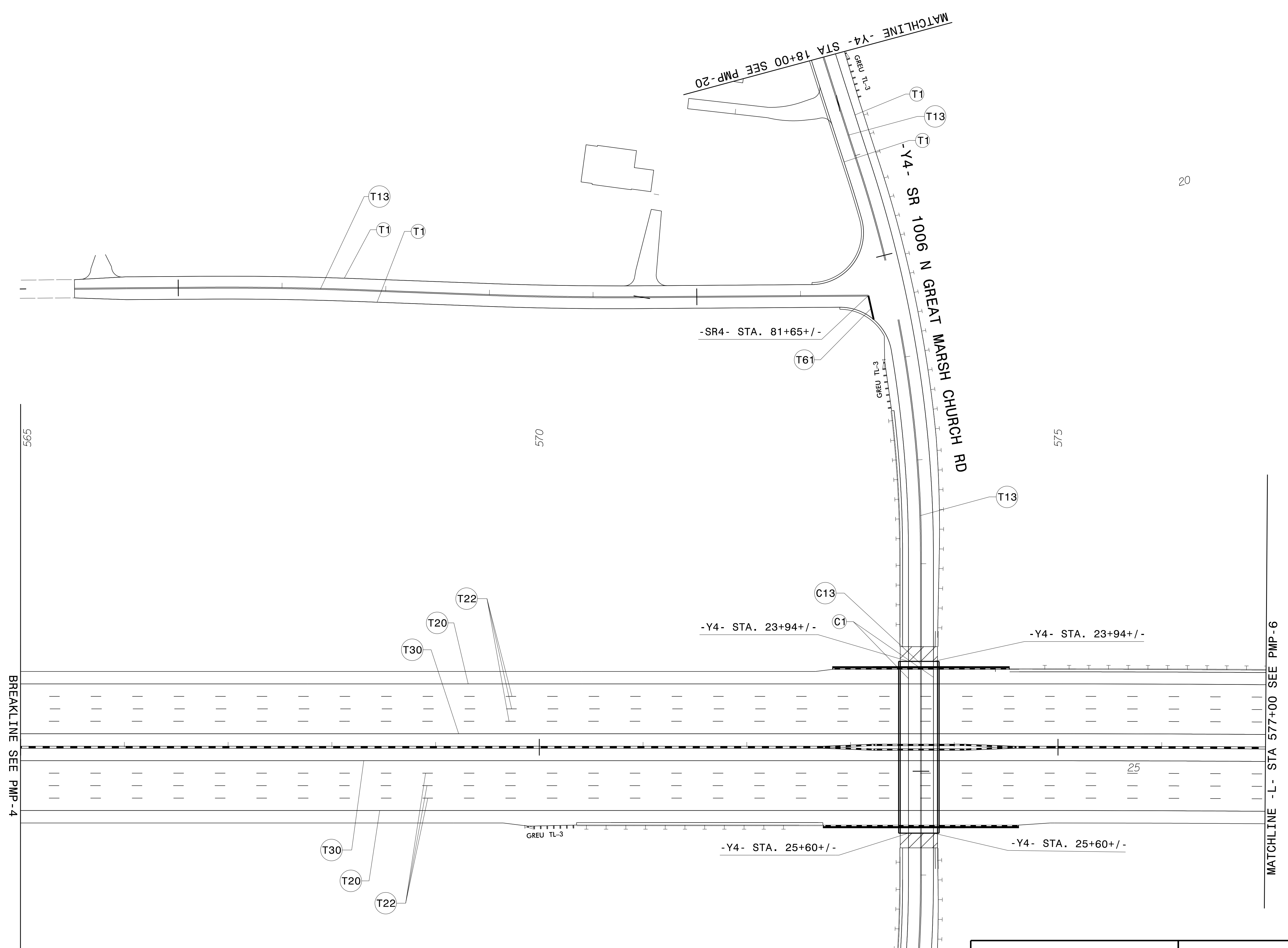
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BREAKLINE SEE PMP-4

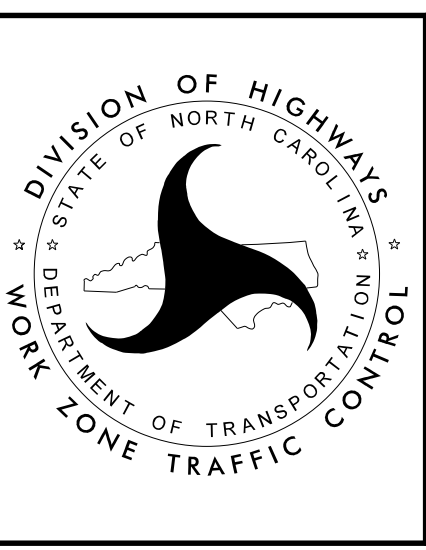
MATCHLINE - L - STA 577+00 SEE PMP-6

MATCHLINE -Y4- STA 27+00 SEE PMP-21

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**SEAL**  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 043765  
 SAMUEL D. COLEMAN

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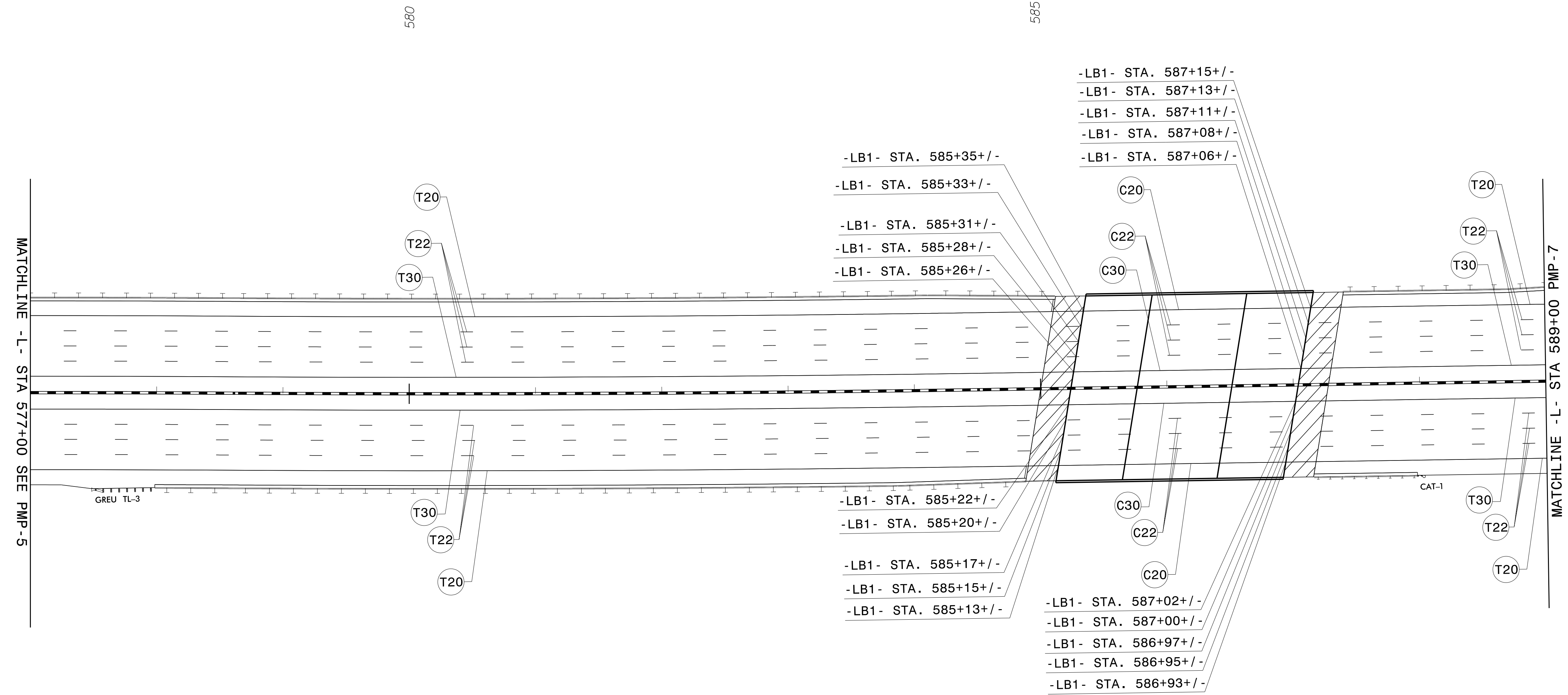


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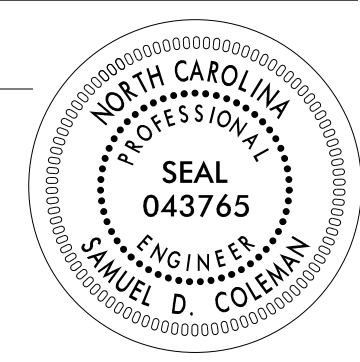
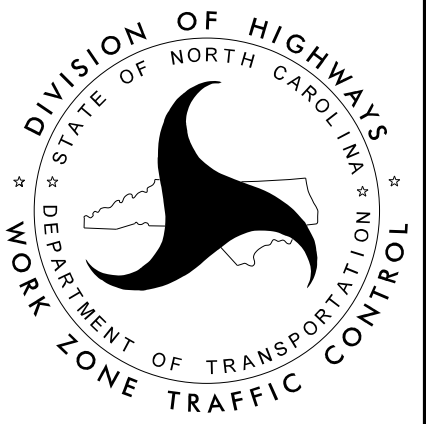
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I-5987B	PMP-6

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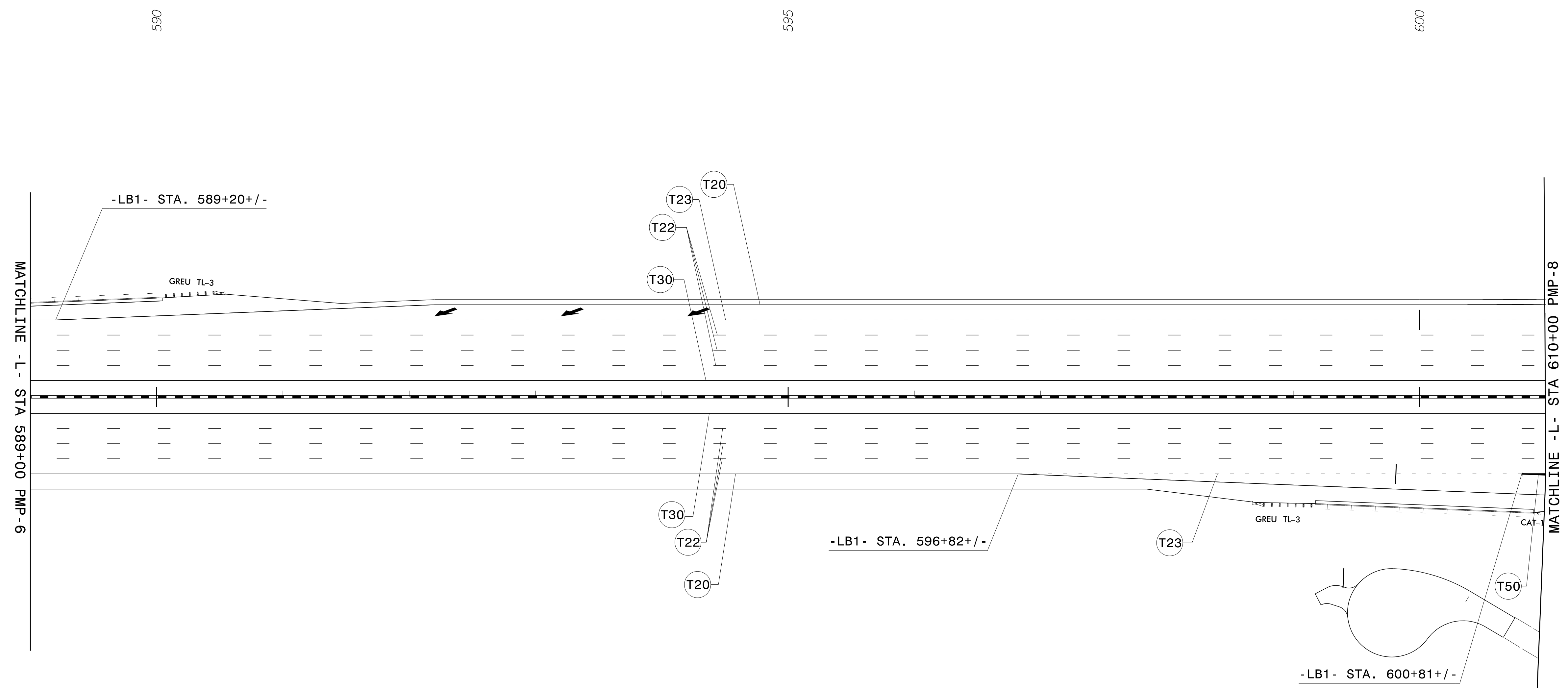
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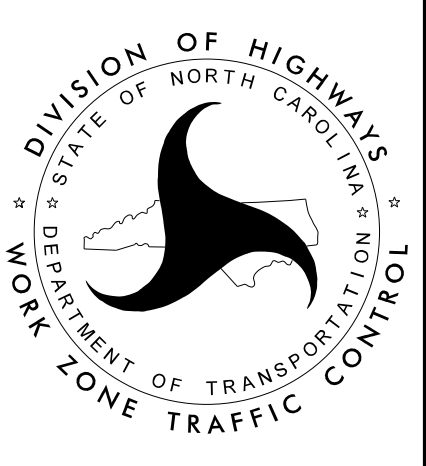
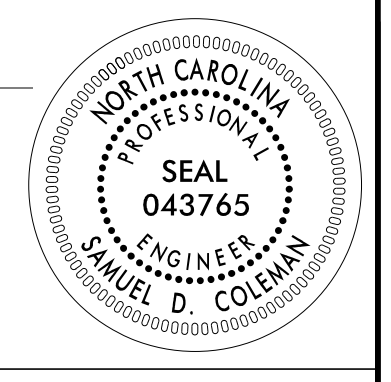
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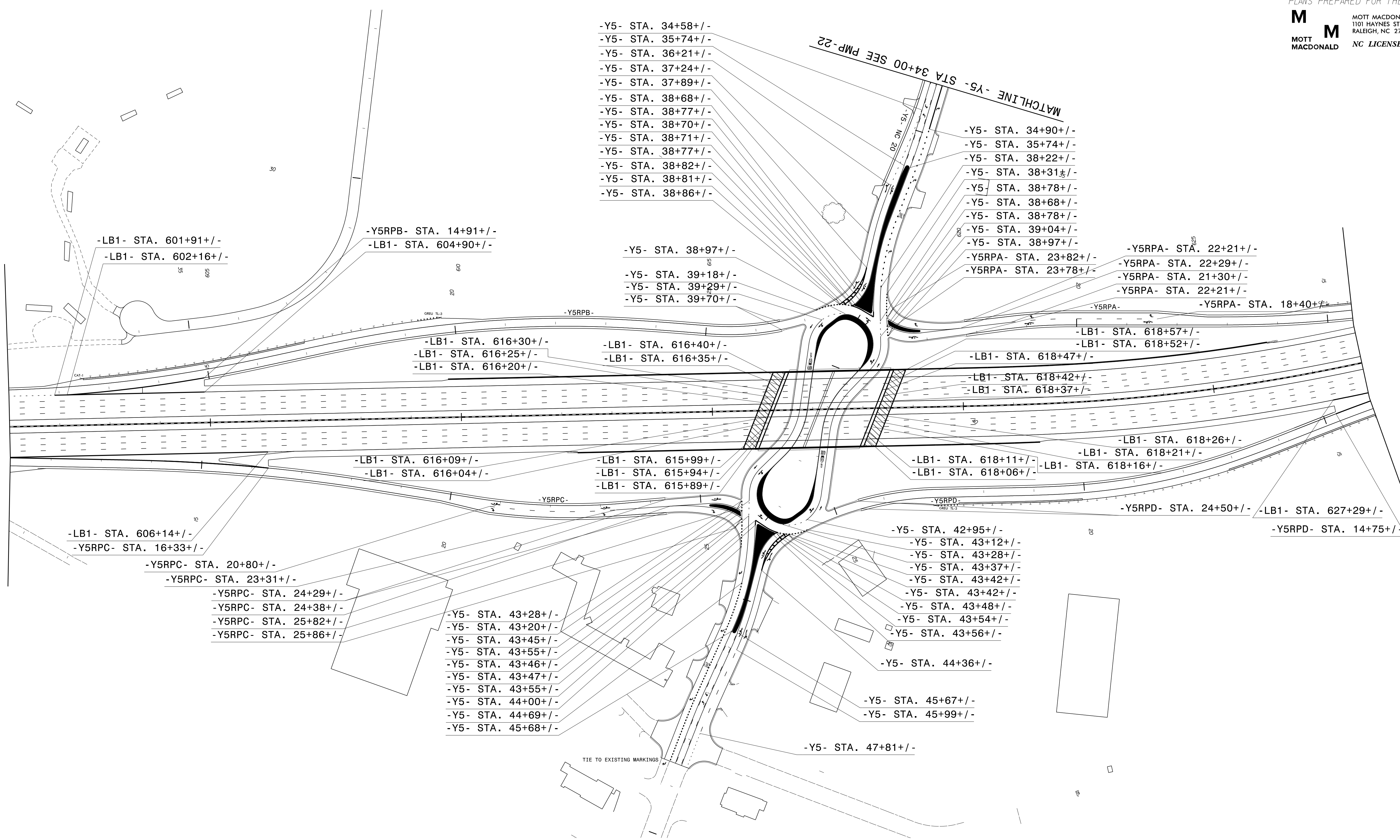
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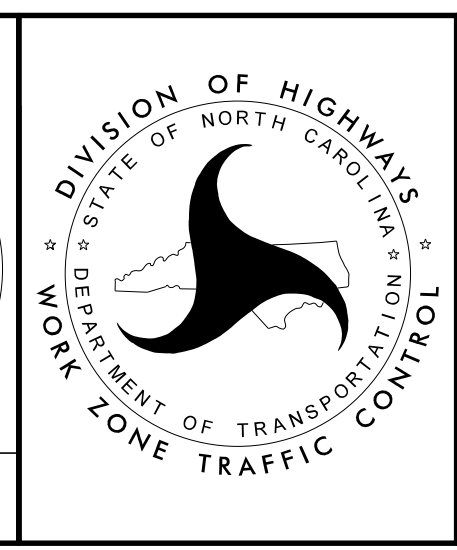
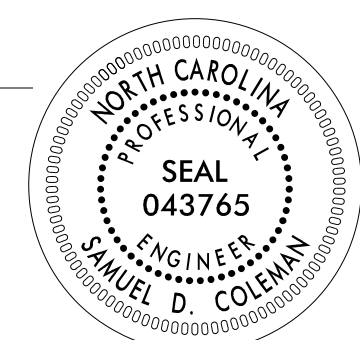
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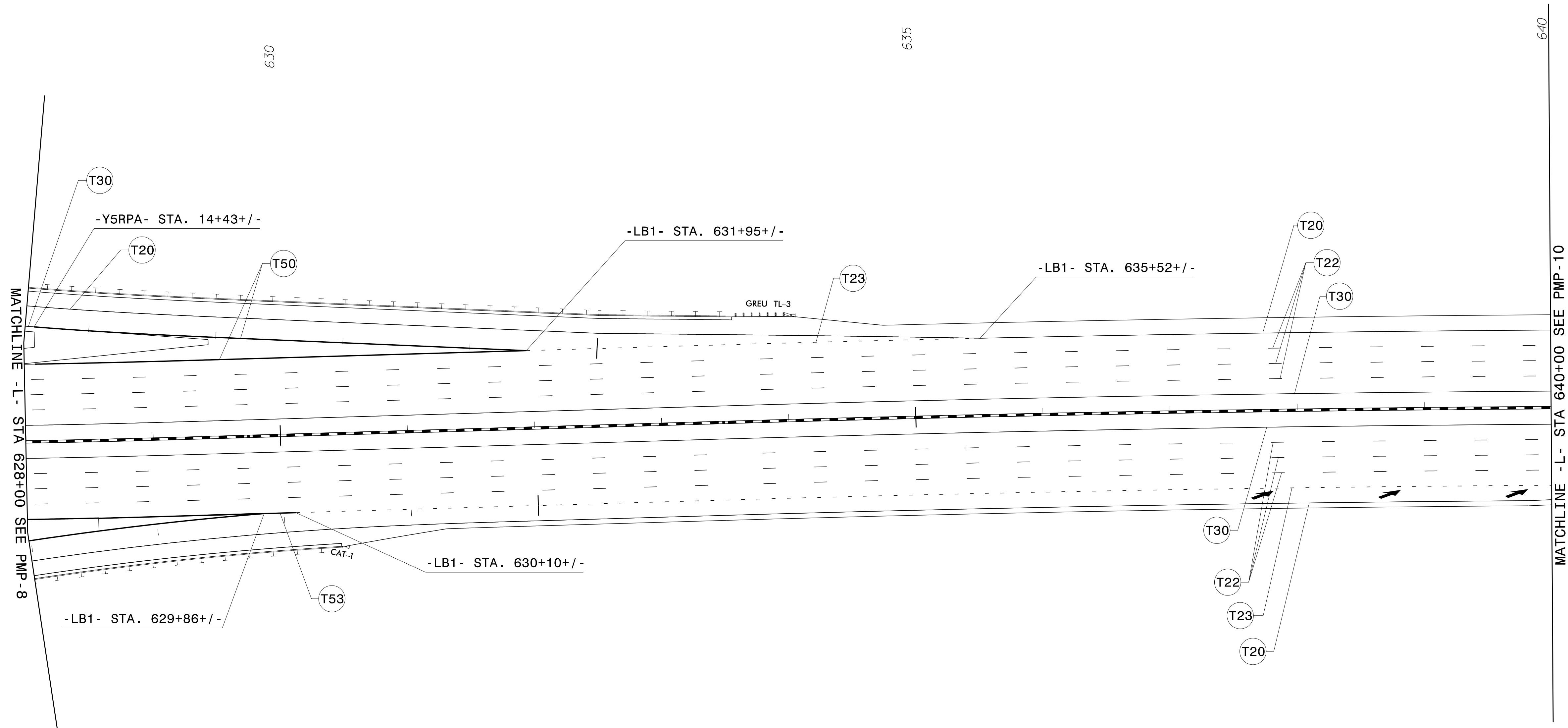


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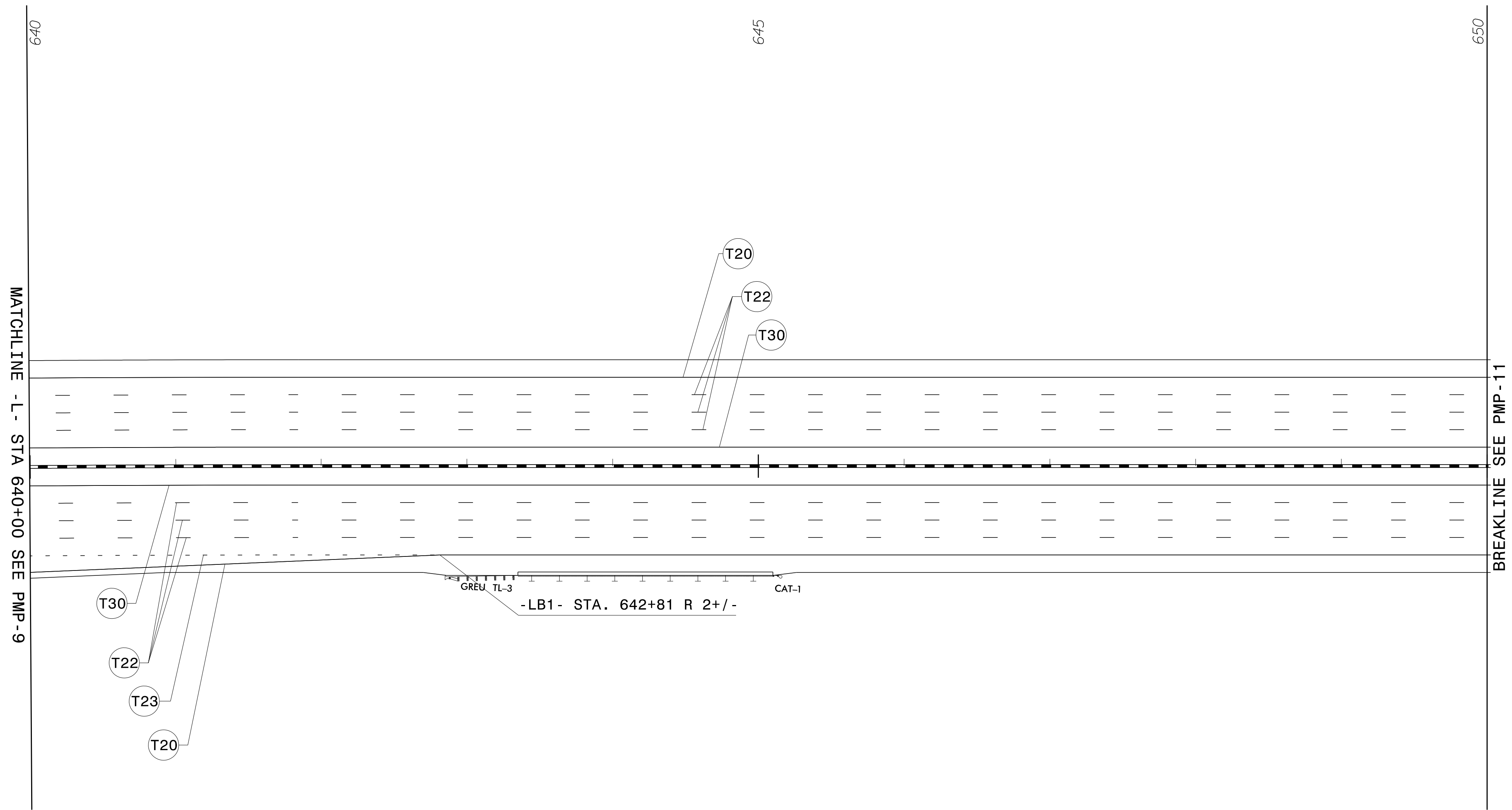


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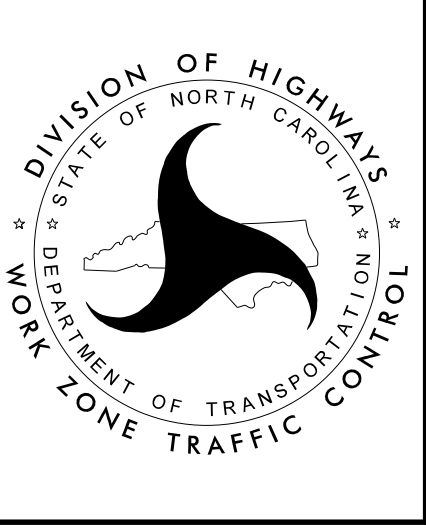
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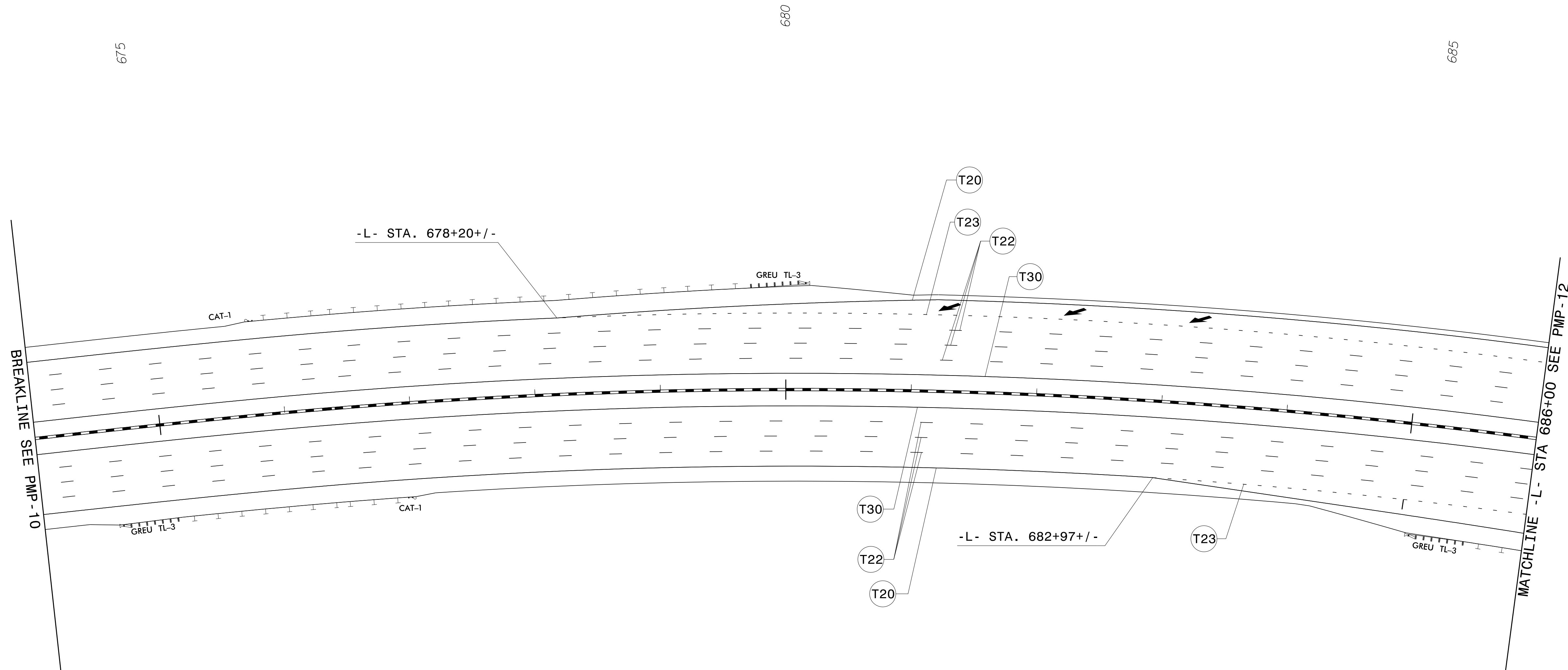


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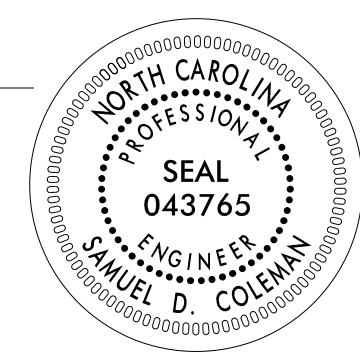
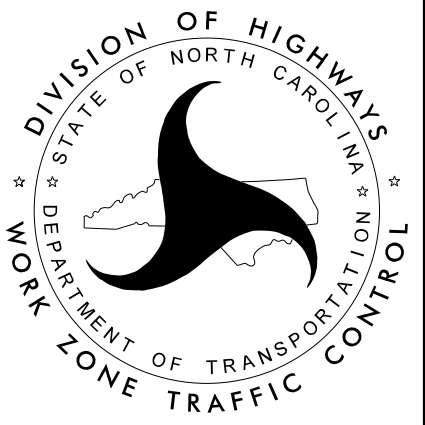
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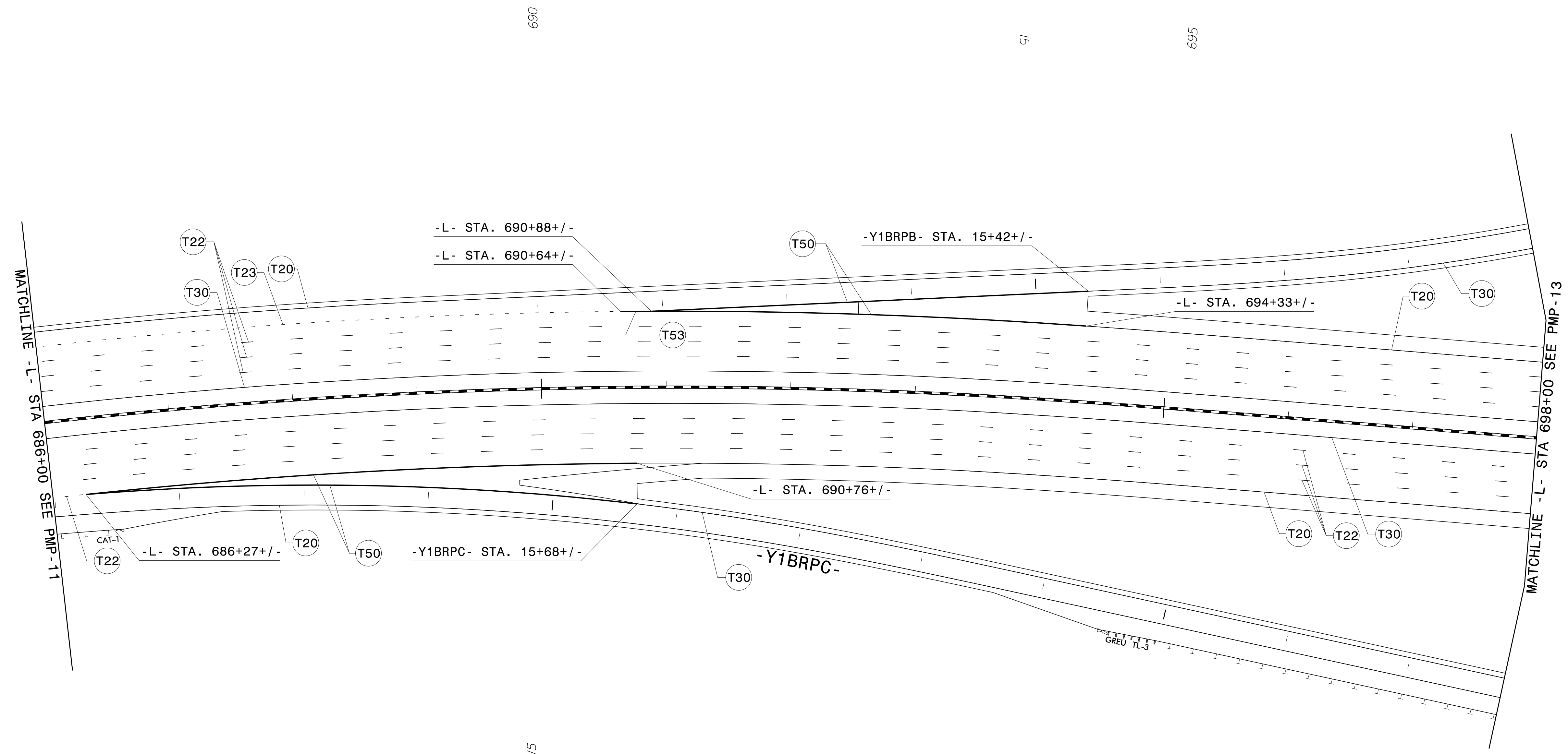
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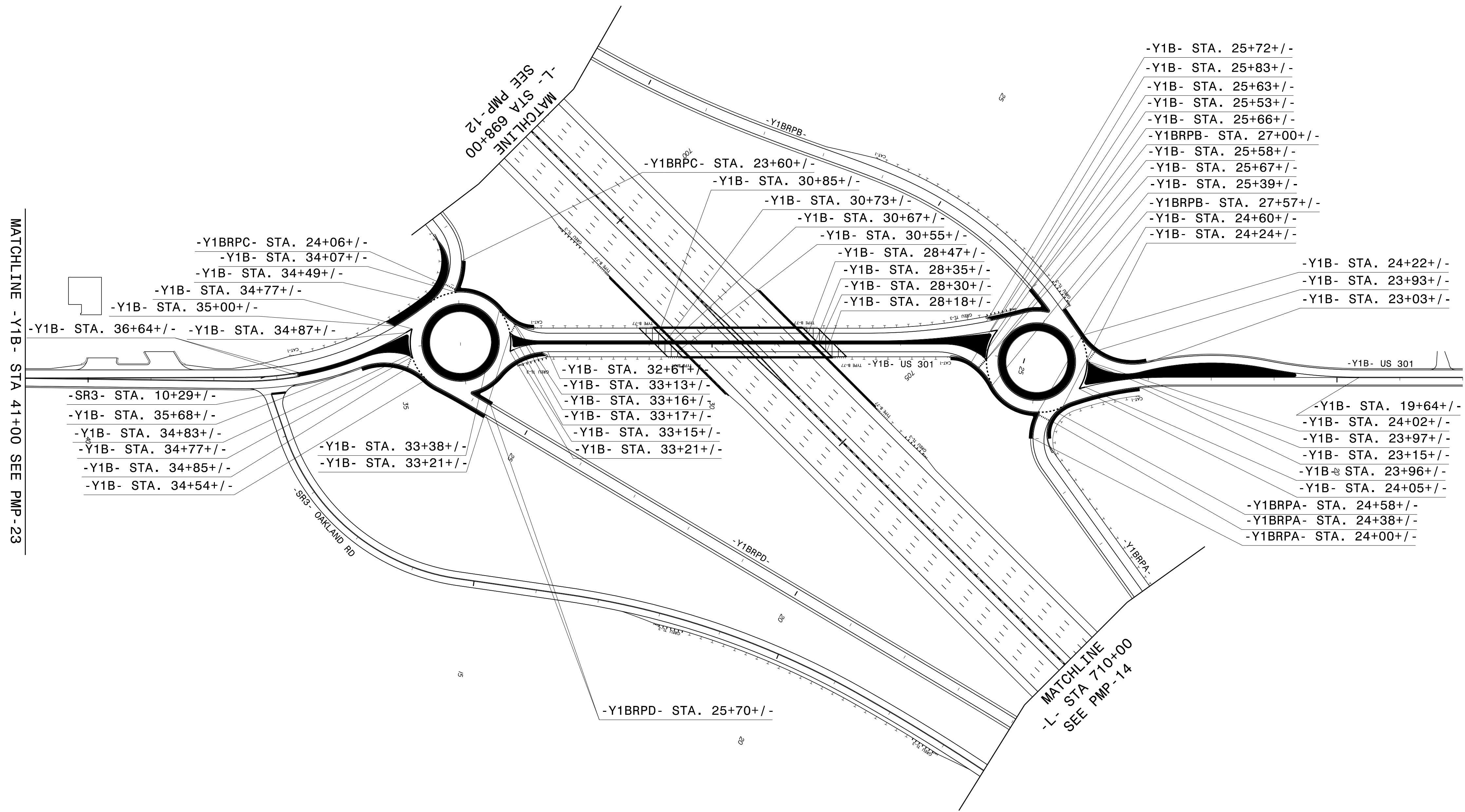
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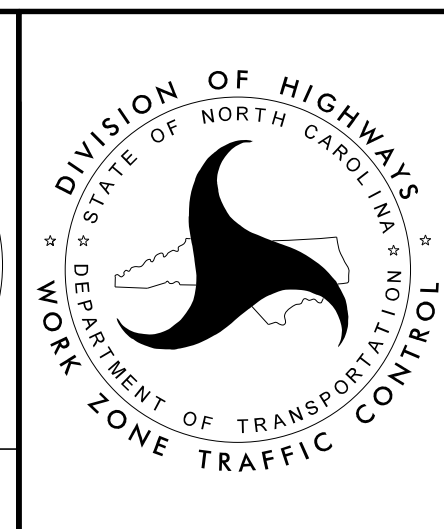
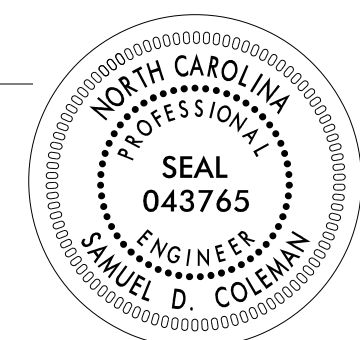
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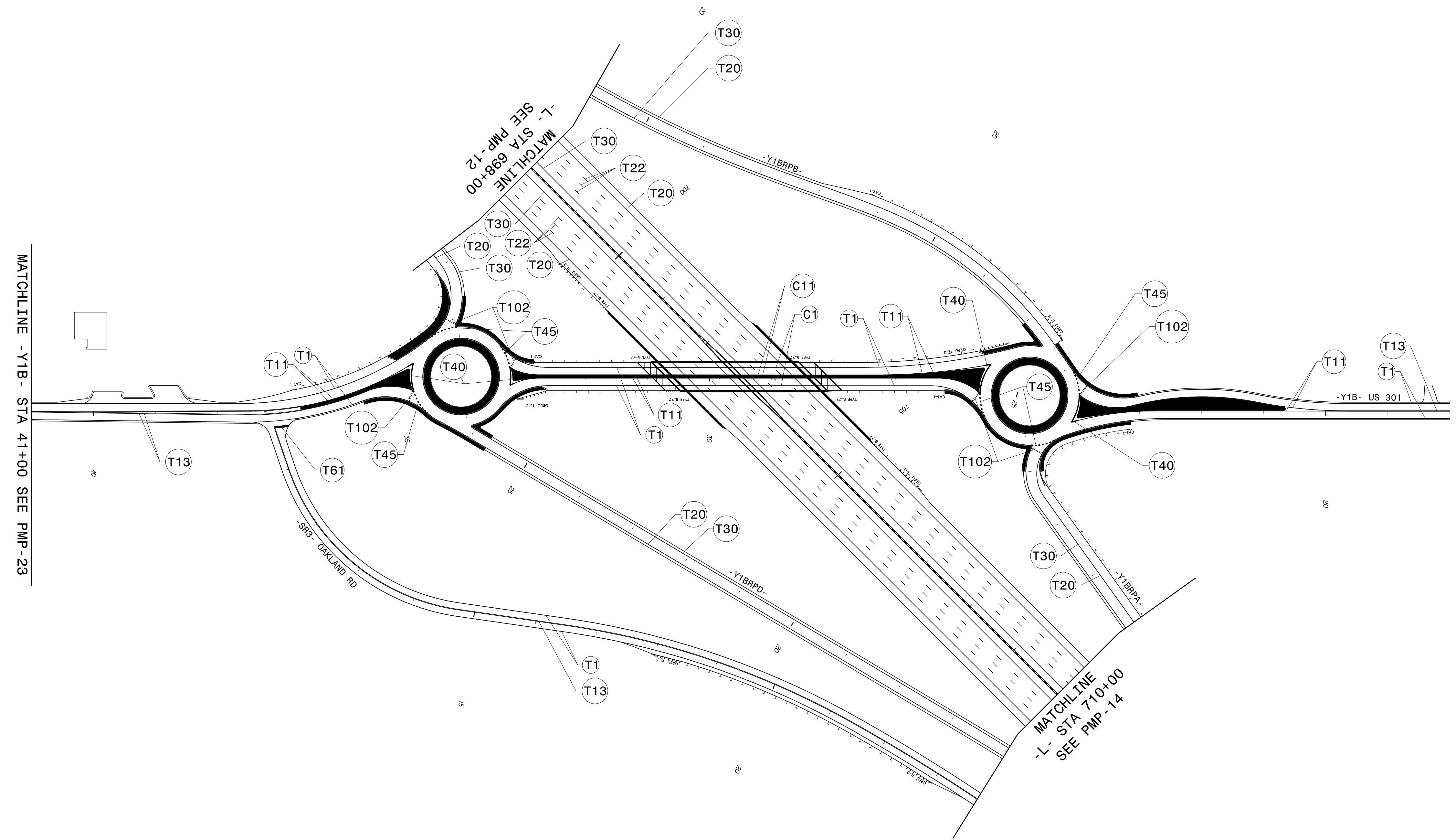


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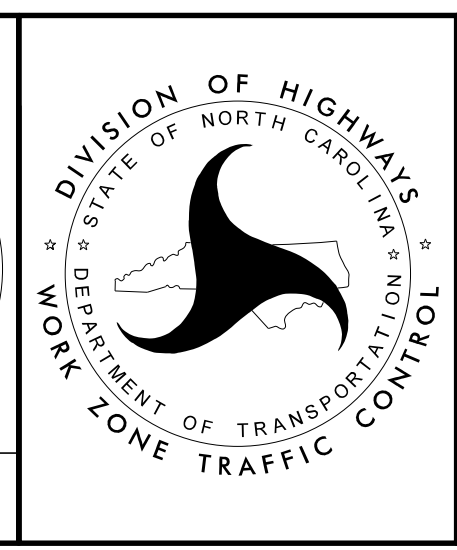
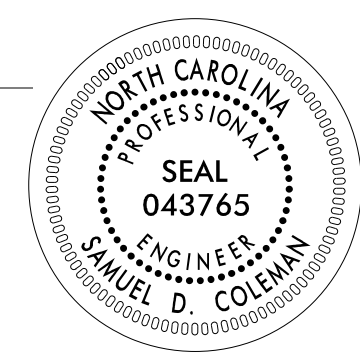
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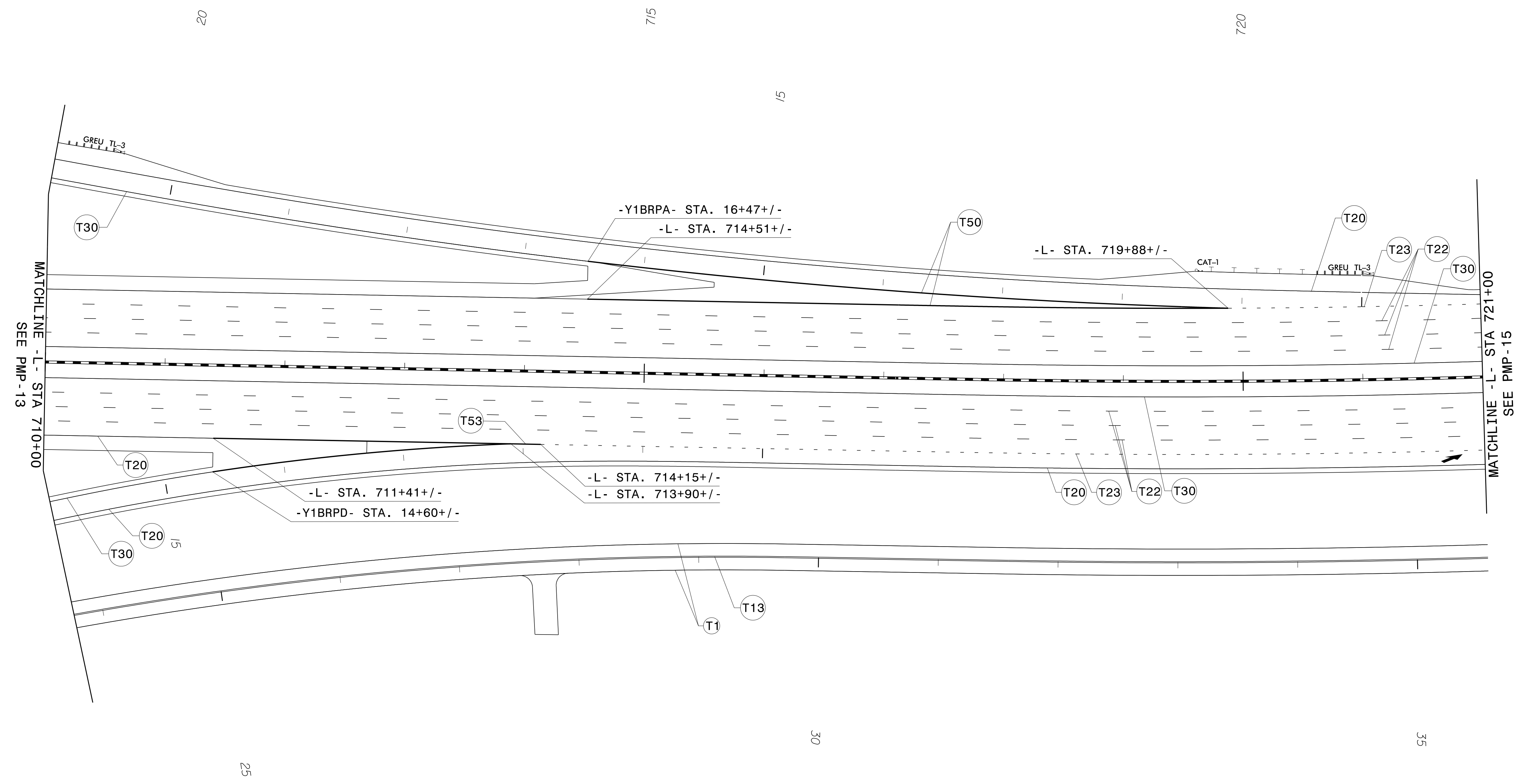


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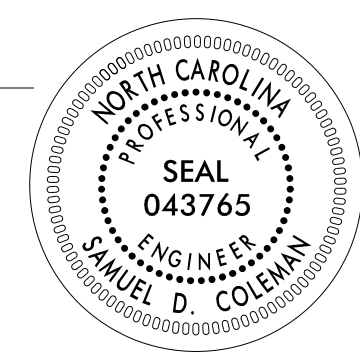
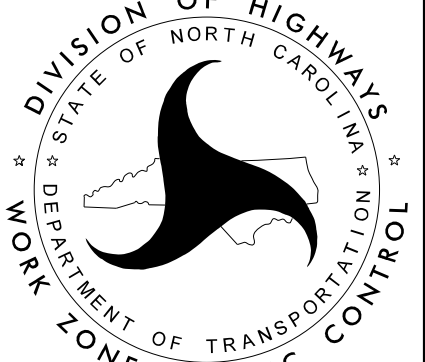
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I-5987B	PMP-14

PLANS PREPARED FOR THE NCDOT BY:

**M** MOTT MACDONALD I & E, LLC  
 1101 HAYNES STREET, SUITE 101  
 RALEIGH, NC 27604  
**M** MOTT MACDONALD  
 NC LICENSE NO. F-0669



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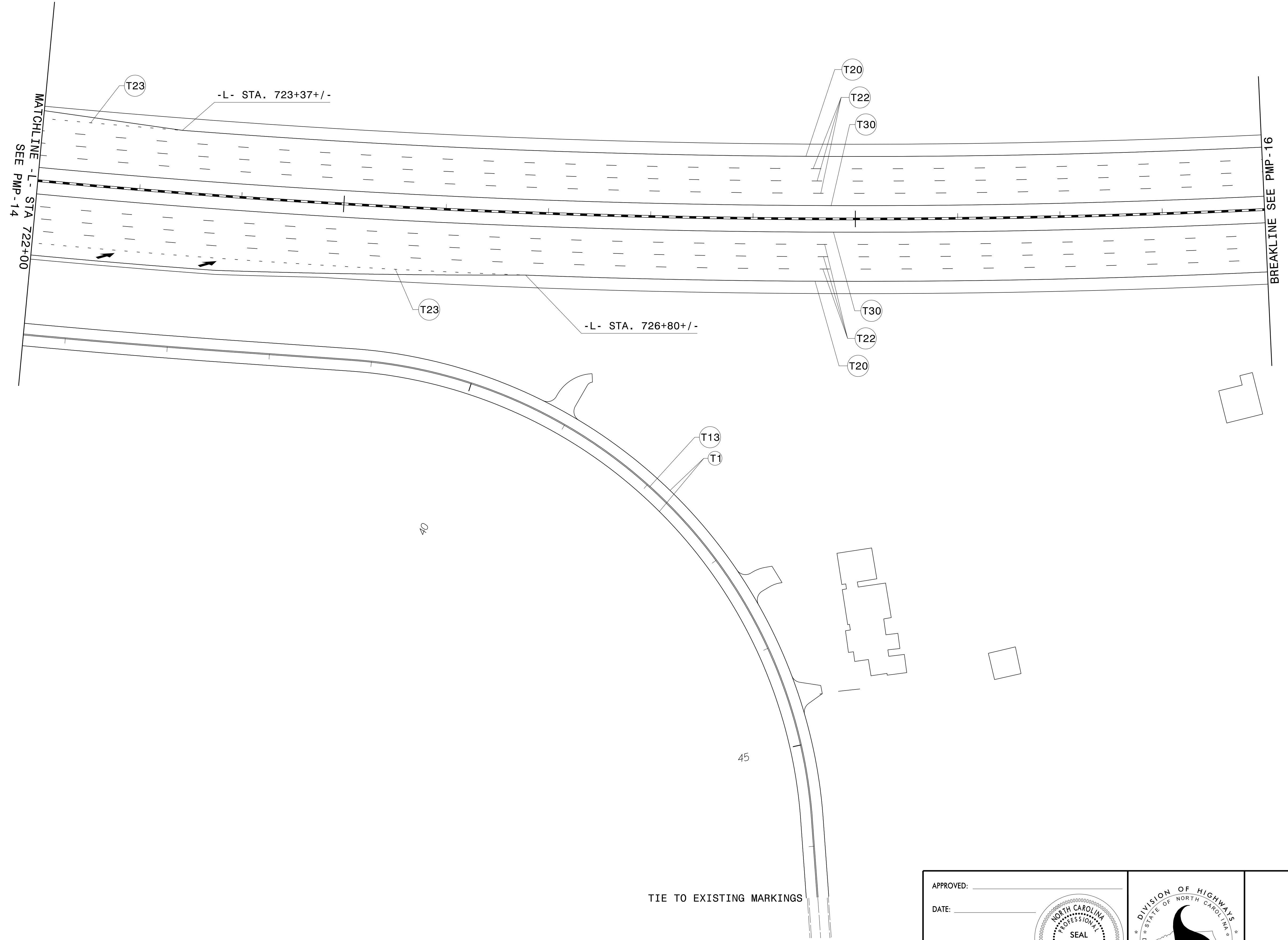
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I-5987B	PMP-15

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 1101 HAYNES STREET, SUITE 101  
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**M** MOTT MACDONALD NC LICENSE NO. F-0669

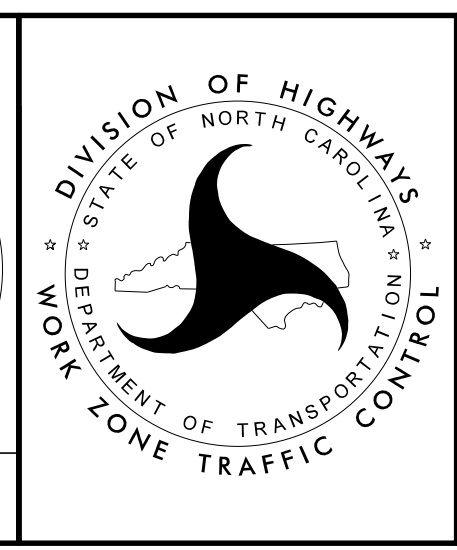


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**SEAL**  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 043765  
 SAMUEL D. COLEMAN

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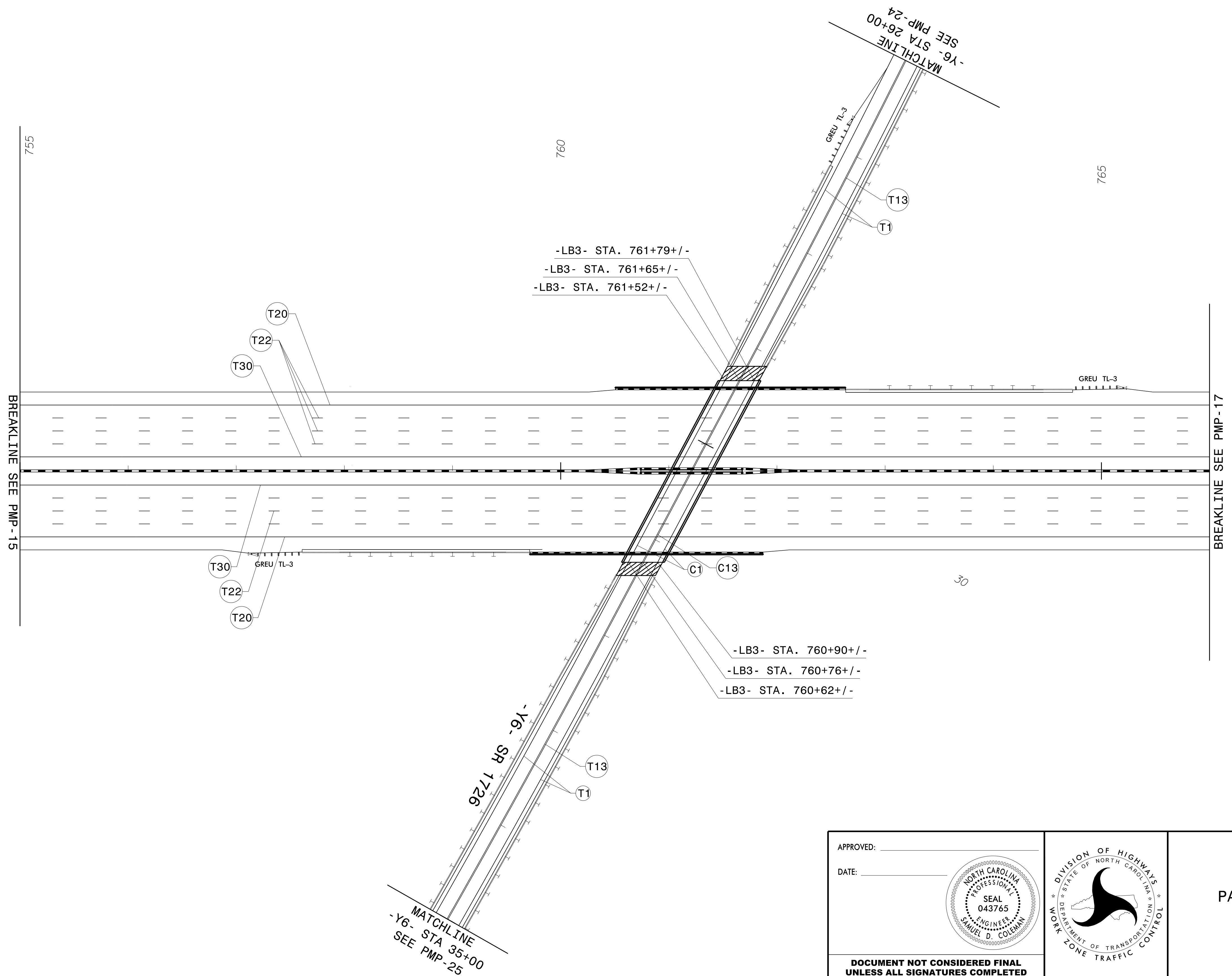


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I-5987B	PMP-16

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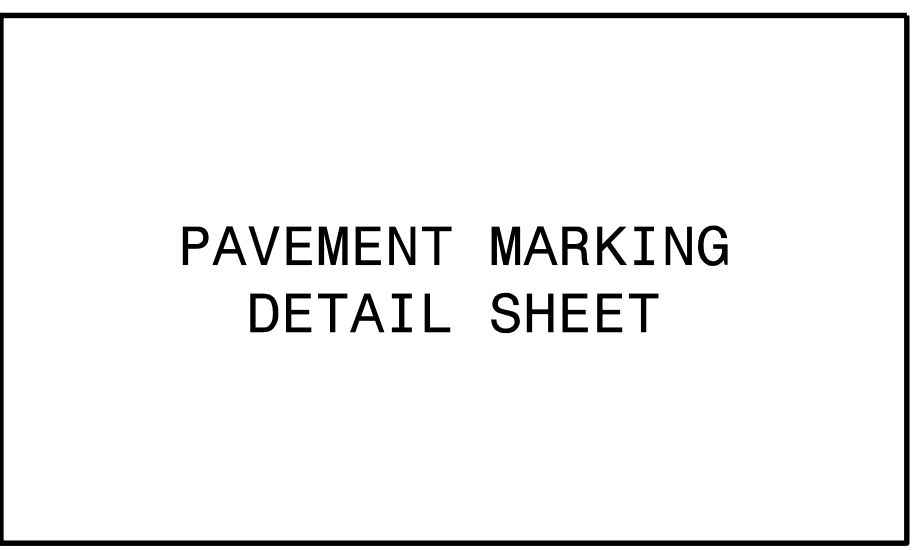
**M** MOTT MACDONALD I & E, LLC  
 1101 HAYNES STREET, SUITE 101  
 RALEIGH, NC 27604  
**M** MOTT MACDONALD NC LICENSE NO. F-0669



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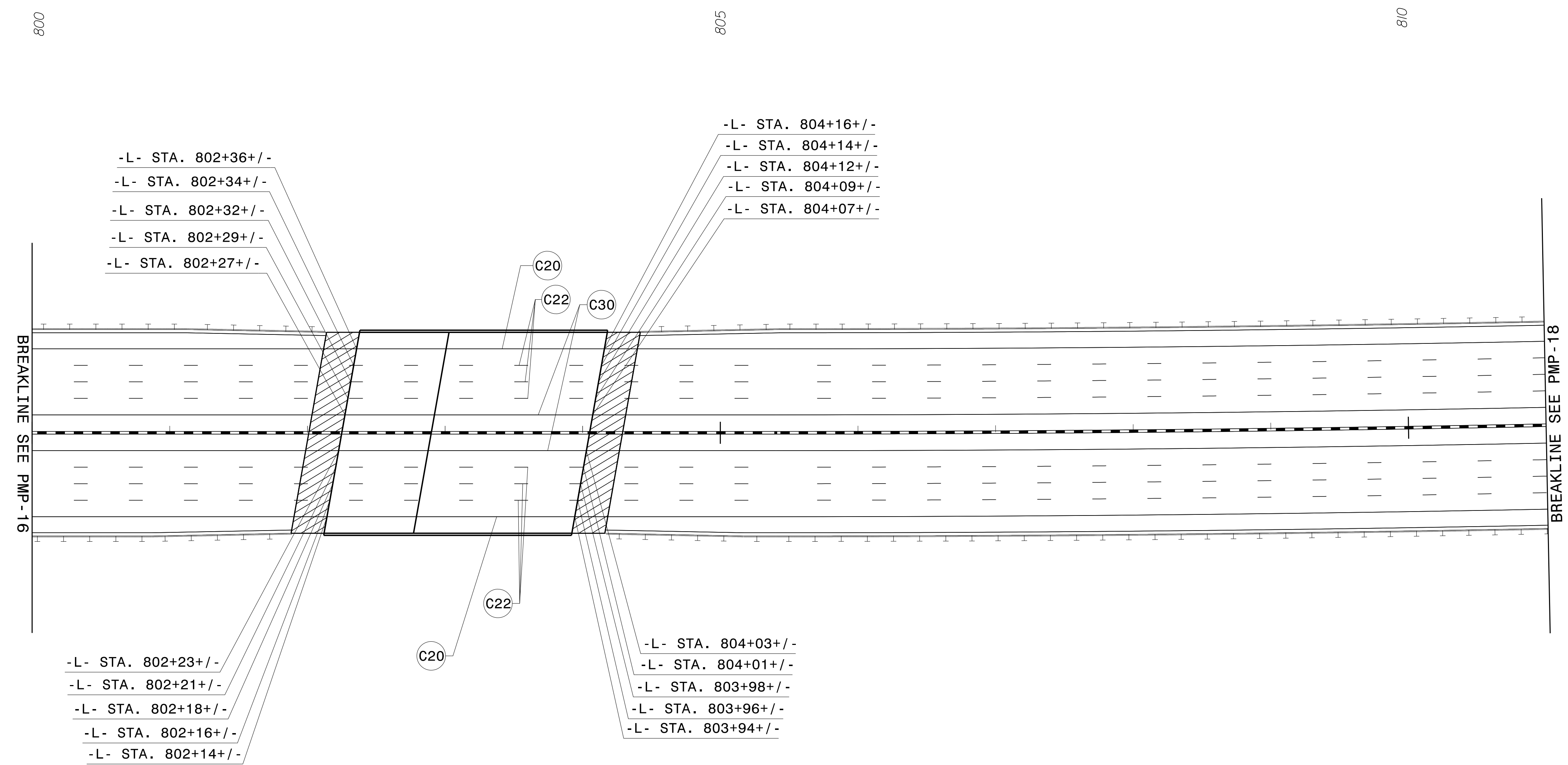


PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-17

PLANS PREPARED FOR THE NCDOT BY:

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**M** MOTT MACDONALD NC LICENSE NO. F-0669

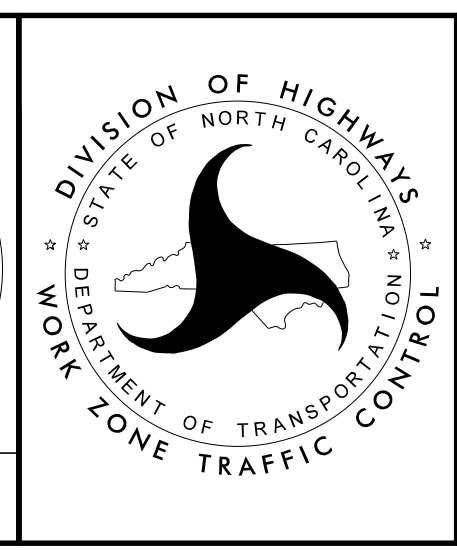
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 043765  
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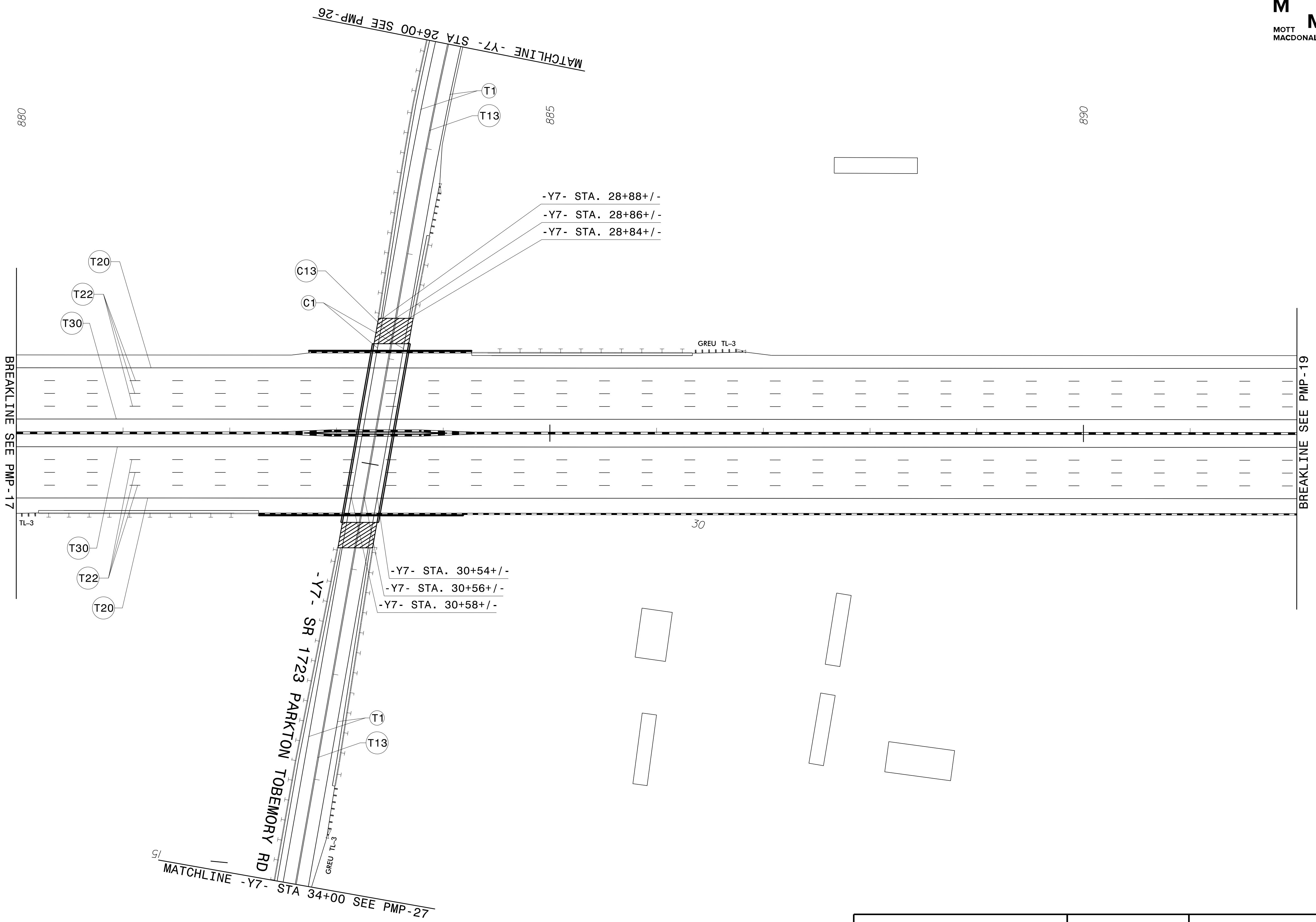


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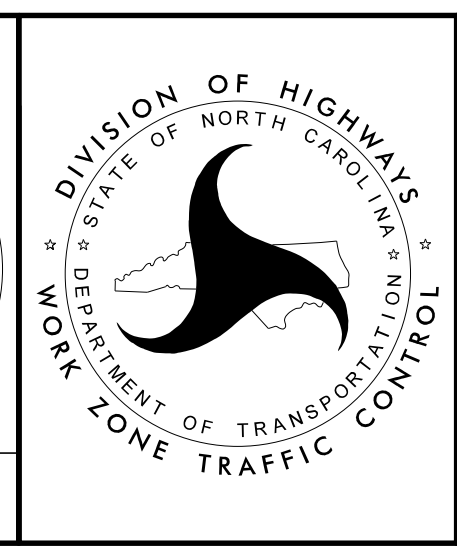
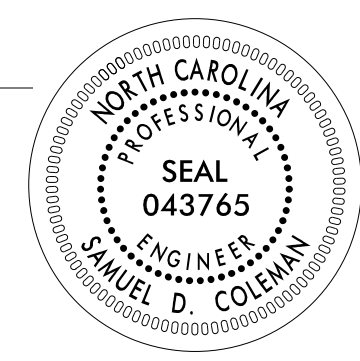
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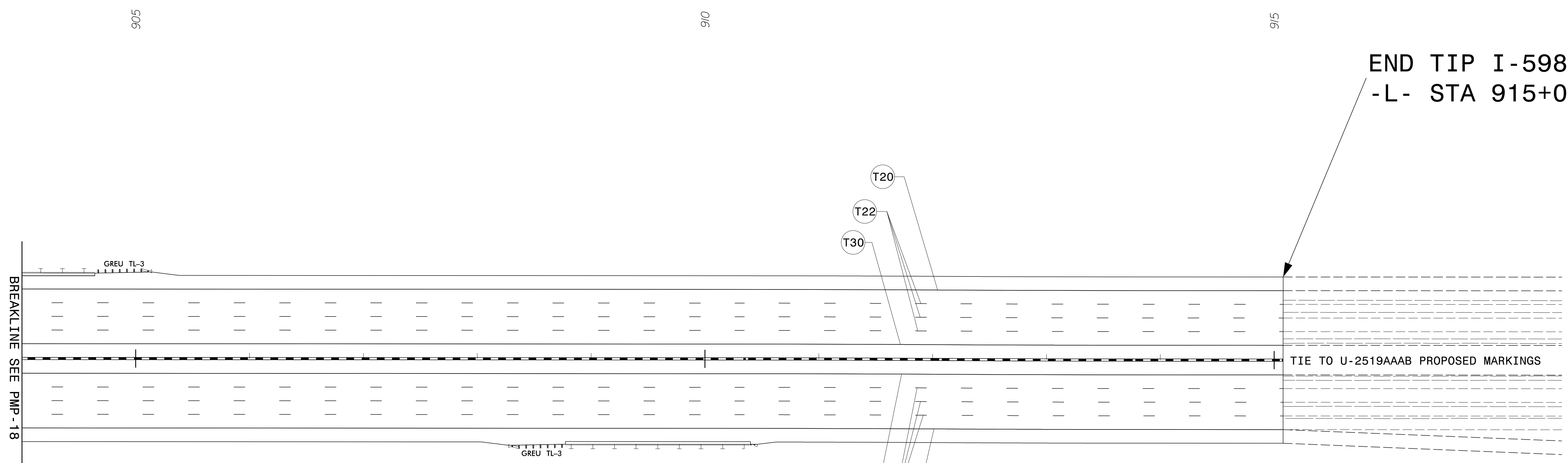
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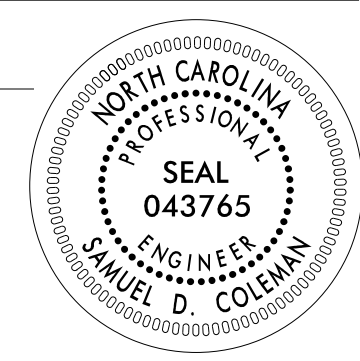

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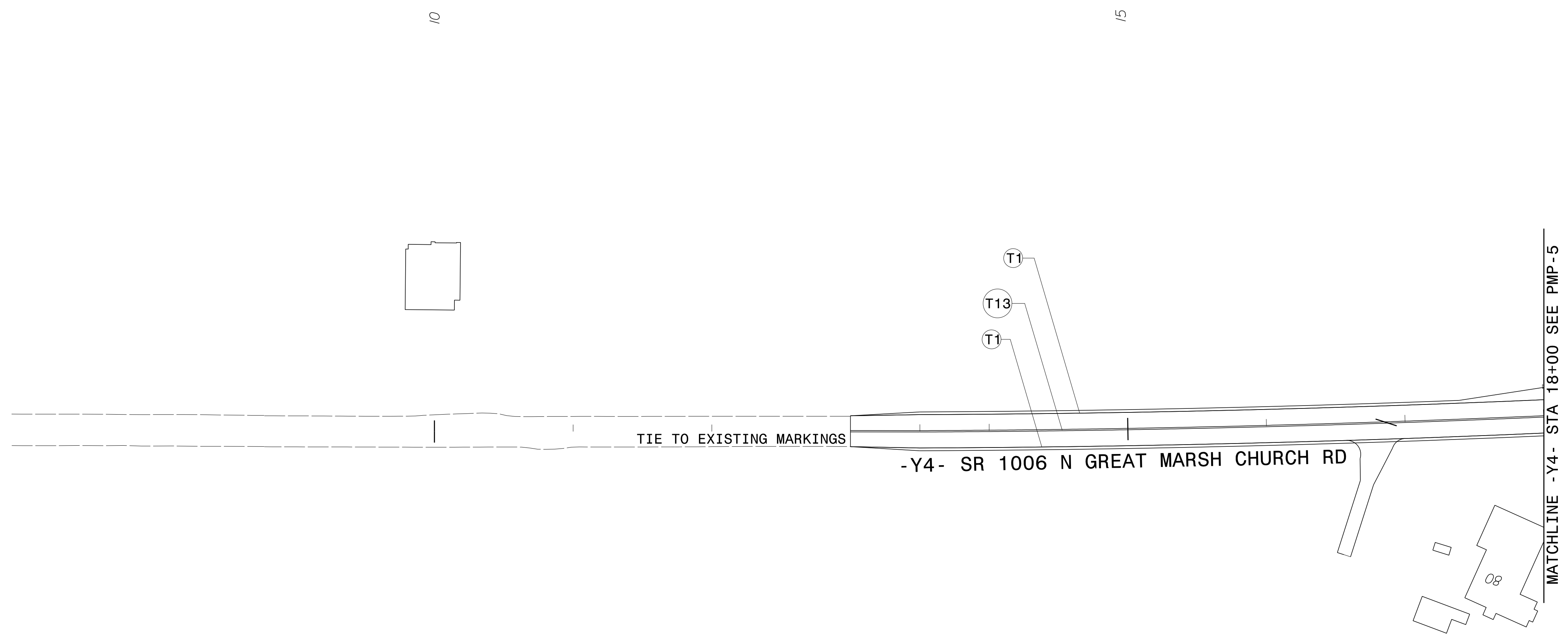
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PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-20

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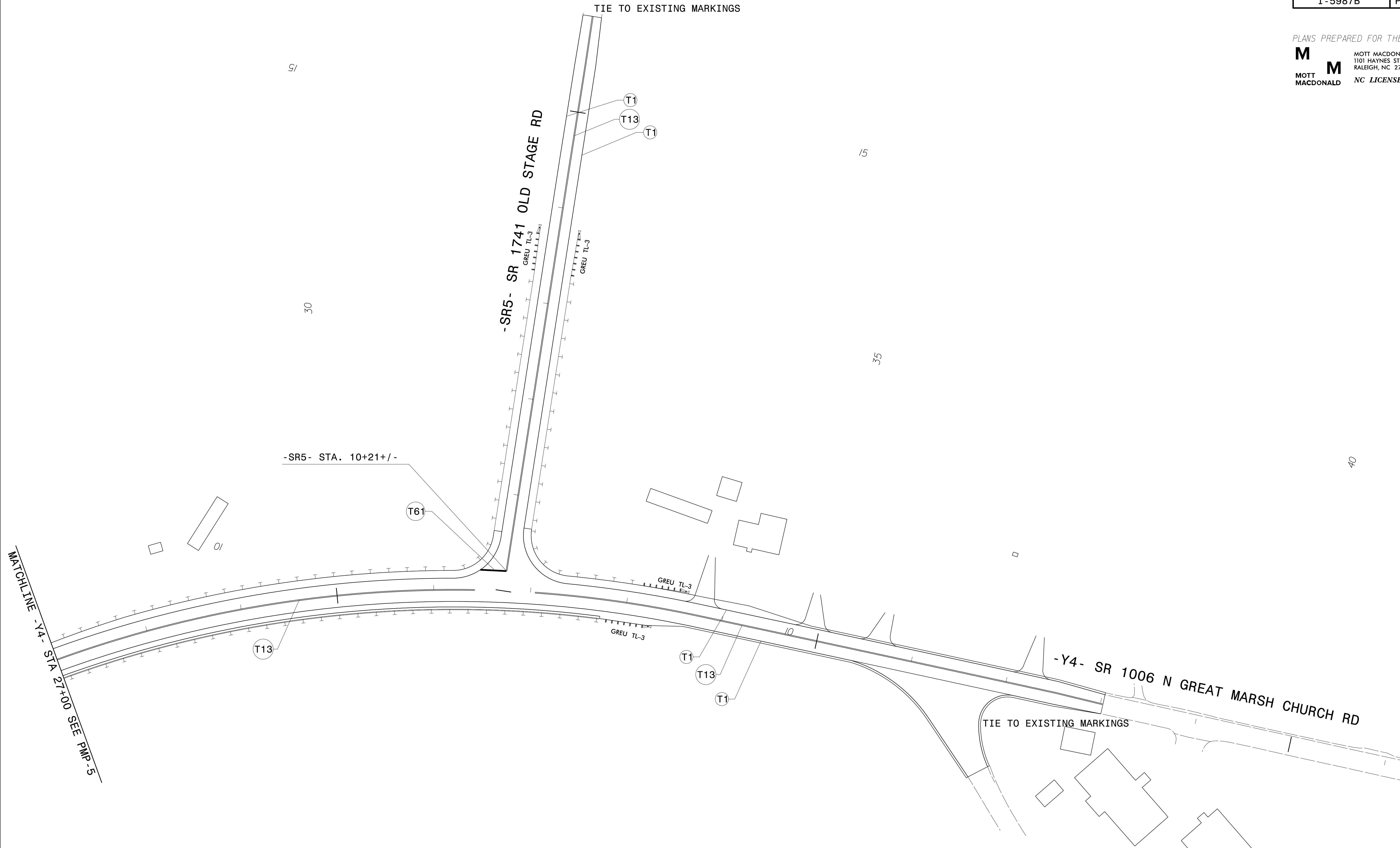
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PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-21

PLANS PREPARED FOR THE NCDOT BY:

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**M** MOTT MACDONALD NC LICENSE NO. F-0669

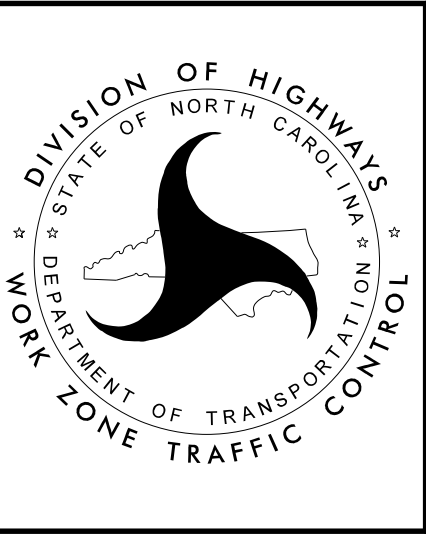
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 SAMUEL M. GORMAN  
 ENGINEER

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**PAVEMENT MARKING  
 DETAIL SHEET**

PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-22

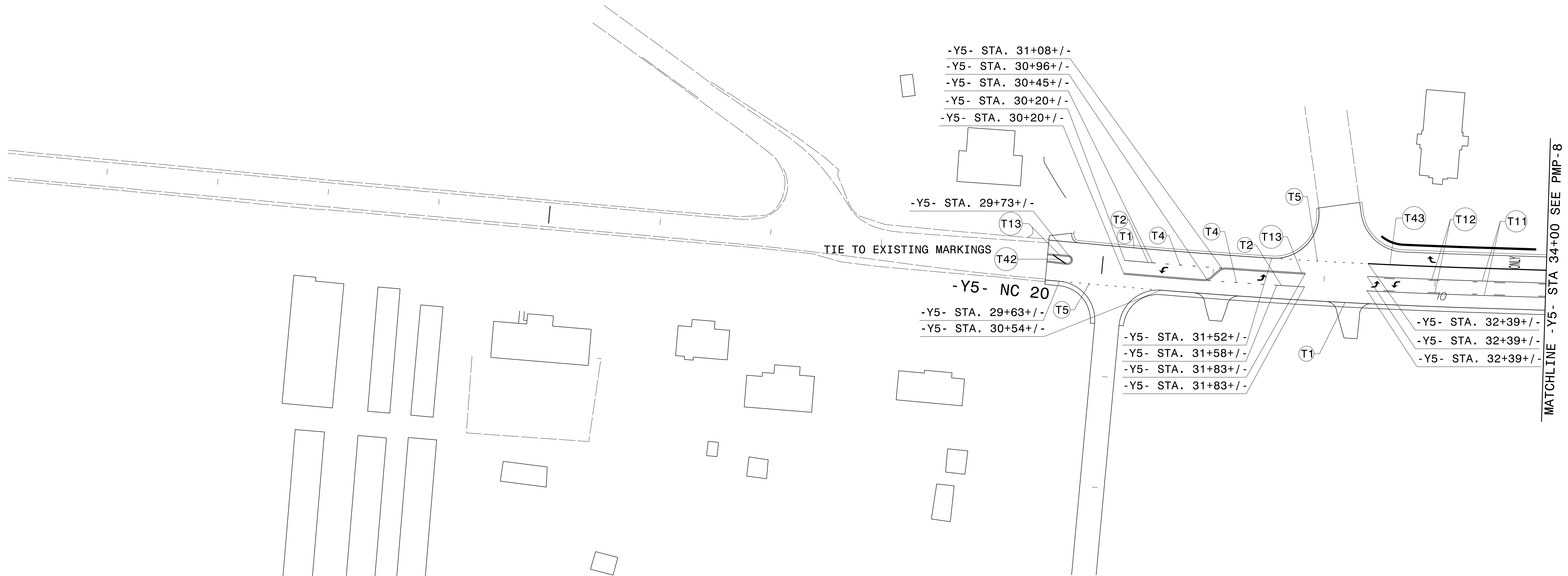
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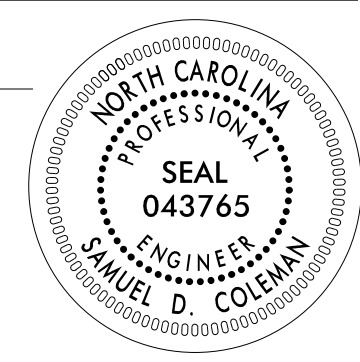
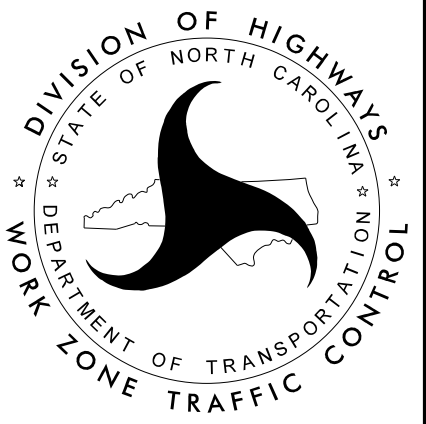
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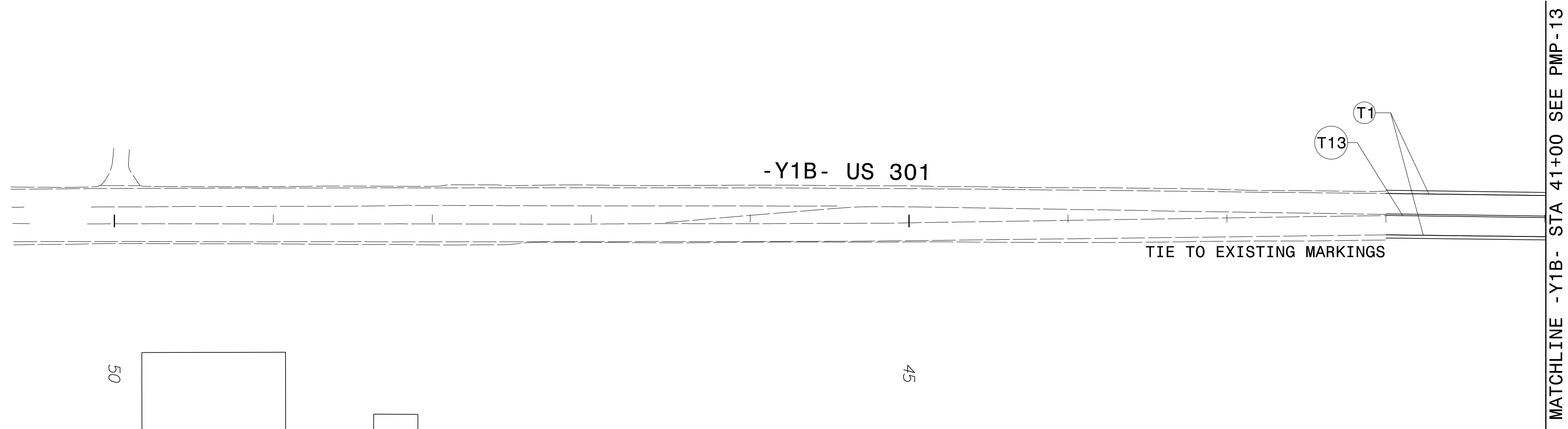
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PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-23

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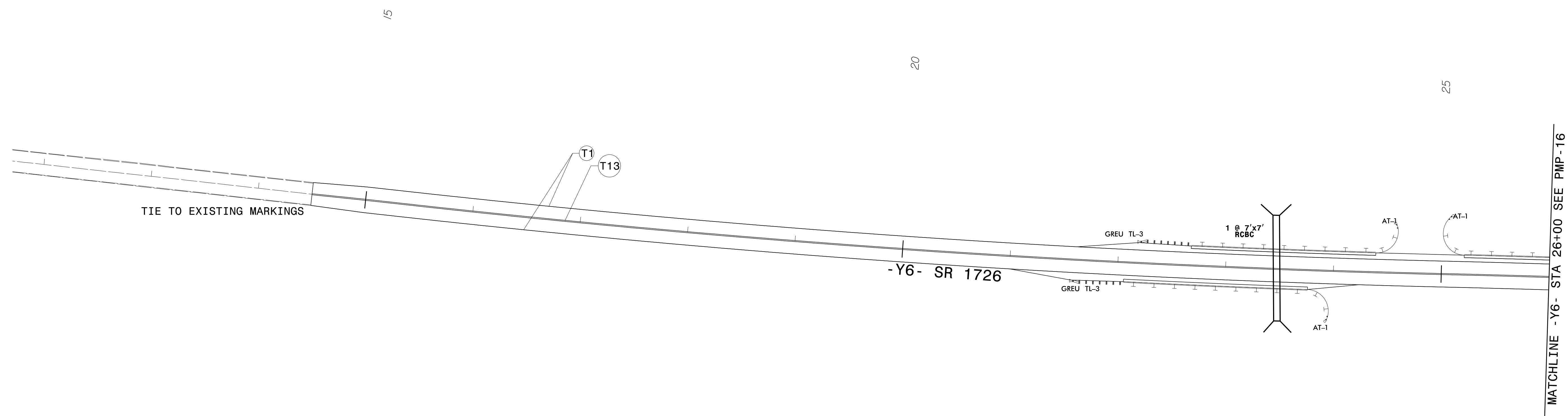
PAVEMENT MARKING  
 DETAIL SHEET

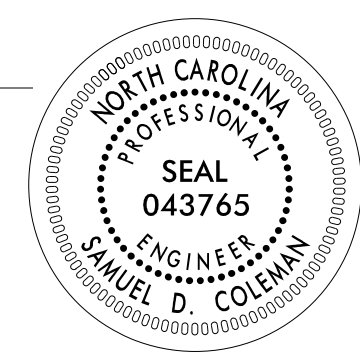

PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-24

PLANS PREPARED FOR THE NCDOT BY:

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**M** MOTT MACDONALD NC LICENSE NO. F-0669

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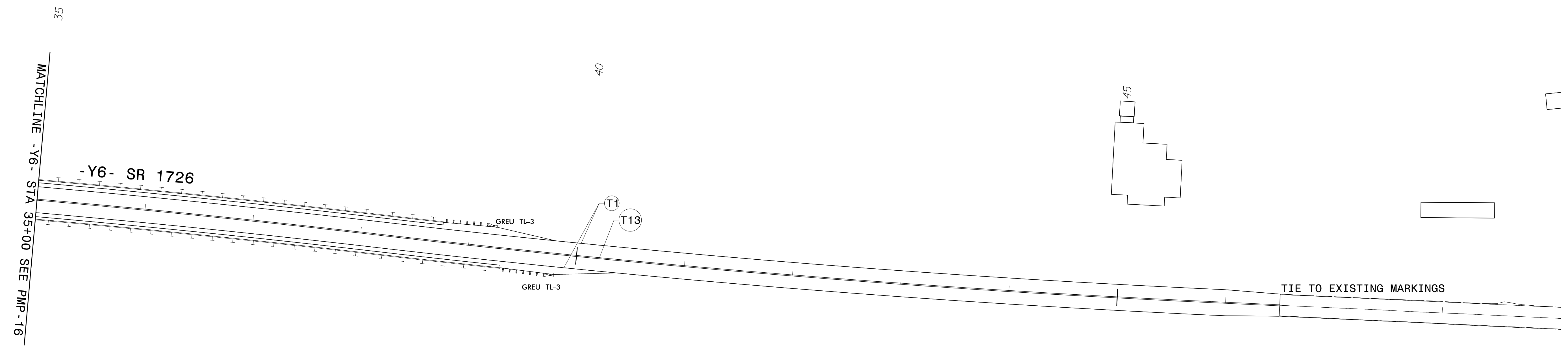


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PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-25

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 1101 HAYNES STREET, SUITE 101  
 RALEIGH, NC 27604  
**M** MOTT MACDONALD NC LICENSE NO. F-0669



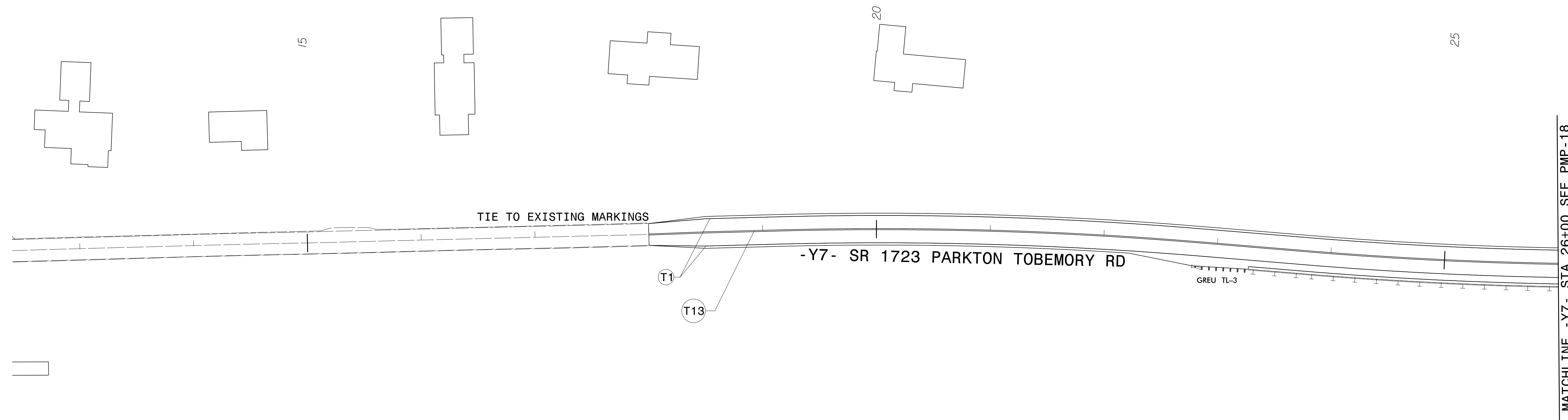
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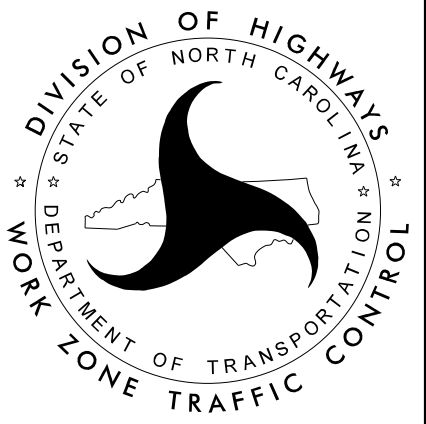
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I-5987B	PMP-26

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**M** MOTT MACDONALD  
 NC LICENSE NO. F-0669



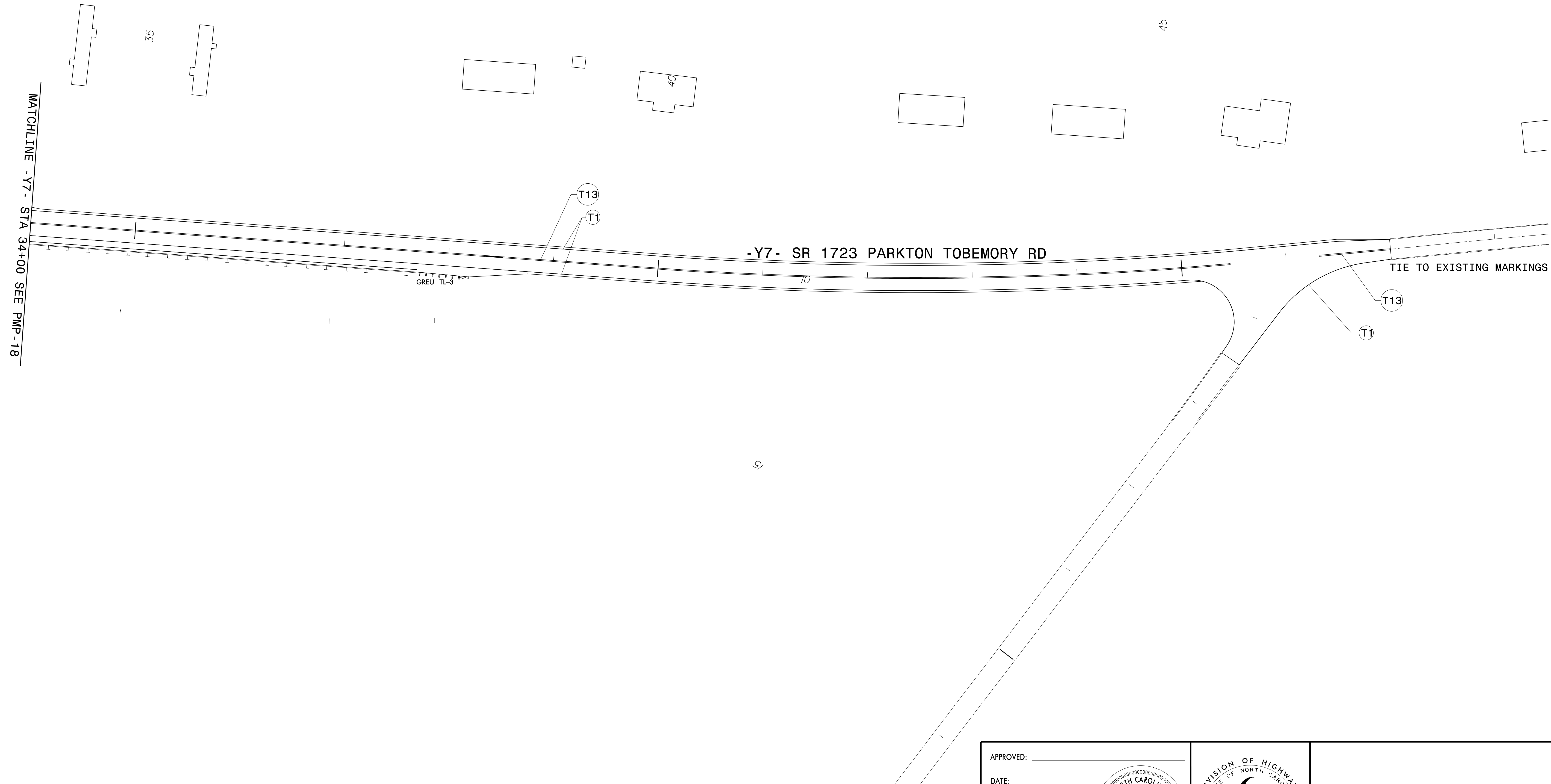
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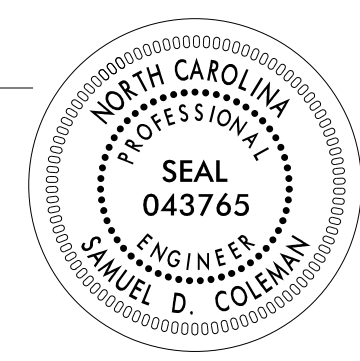

PROJ. REFERENCE NO.	SHEET NO.
I-5987B	PMP-27

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**M** MOTT MACDONALD NC LICENSE NO. F-0669



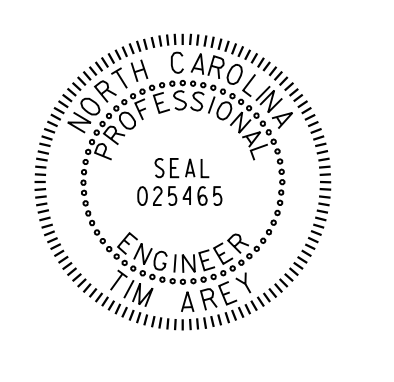
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**U-2519AA&AB-SA FOR I-5987B**

**NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN  
ROBESON AND CUMBERLAND COUNTIES**

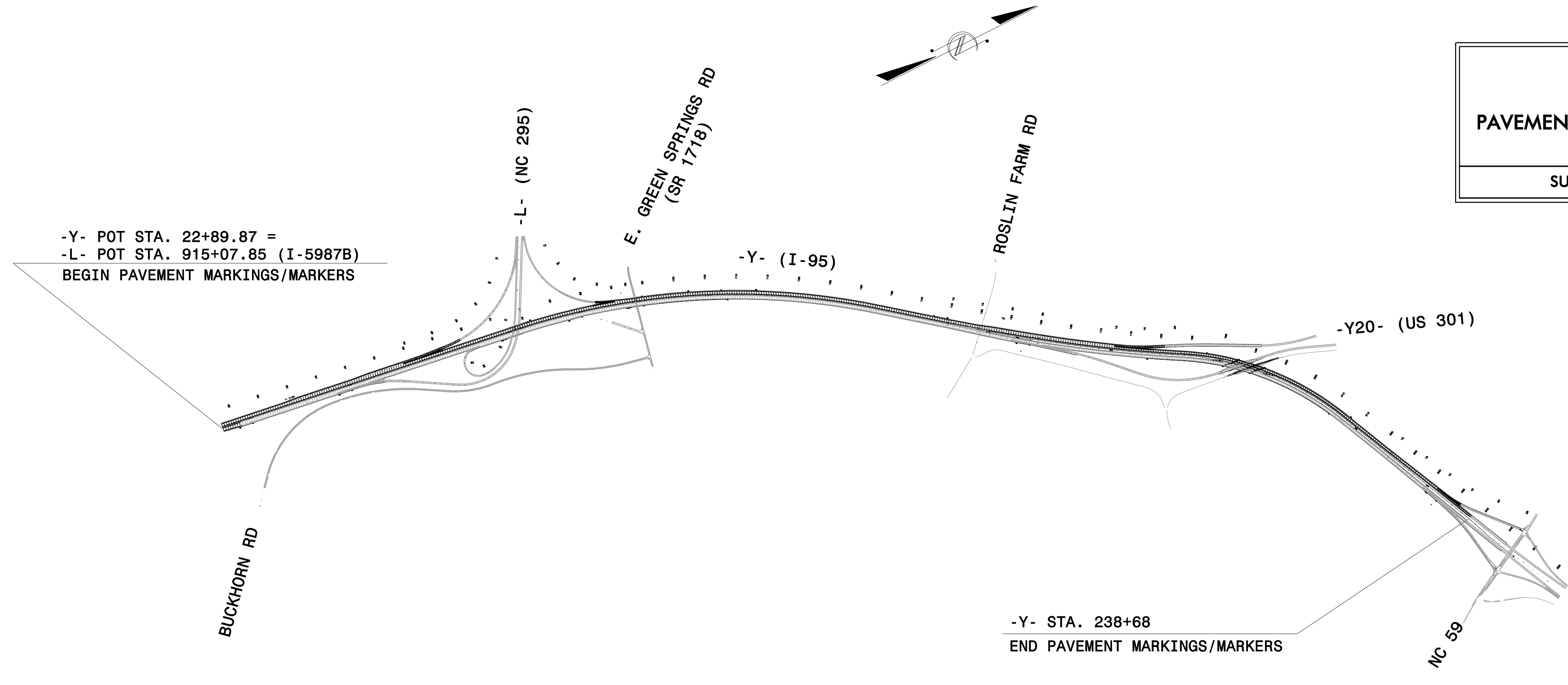
TIP NO. <b>U-2519AAAB-SA</b>	SHEET NO. <b>PMP-1</b>
APPROVED: <i>Tim Arcy</i>	
DATE: 03/29/22	
	
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**RFC**

PAVEMENT MARKING PLANS

03-25-22

SUBMITTAL #S-160



<b>INDEX</b>	
SHEET NO.	DESCRIPTION
PMP-1	TITLE SHEET
PMP-2	PAVEMENT MARKING SCHEDULE AND NOTES
PMP-3 THRU 10	PAVEMENT MARKING DETAIL SHEETS

Balfour Beatty

BRANCH

Infrastructure Inc. CIVIL

A Joint Venture

in association with

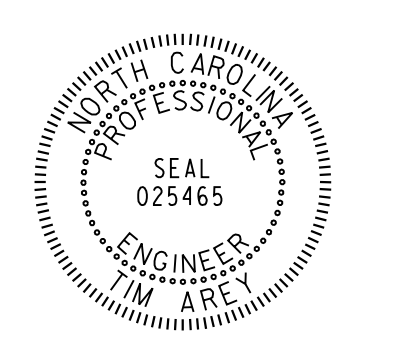
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DESIGN GROUP, INC.

ENGINEERS • CONSULTANTS

PAVEMENT MARKING PLANS  
PLACED UNDER TIP I-5987B  
FOR ULTIMATE PATTERN

TIP NO. <b>U-2519AAAB-SA</b>	SHEET NO. <b>PMP - 2</b>
APPROVED: <i>Tim Aray</i>	
DATE: 03/29/22	
SEAL	
	
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## 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
1205.05	PAVEMENT MARKINGS - TURN LANES
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
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

## 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
I-95	THERMOPLASTIC WITH STANDARD BEADS	NON-CAST IRON SNOWPLOWABLE
BRIDGE DECKS	COLD APPLIED PLASTIC, TYPE 2	RAISED

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.  
 C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.  
 D) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING COLD APPLIED PLASTIC PAVEMENT MARKING MATERIAL.  
 E) 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.  
 F) REMOVE PAVEMENT MARKINGS FROM ASPHALT SURFACES BY GRINDING.  
 G) REMOVE PAVEMENT MARKINGS FROM CONCRETE SURFACES BY HYDROBLASTING OR GRINDING.

## SPECIAL NOTE


THIS PAVEMENT MARKING PLAN IS FOR THE AREAS WHERE THE FINAL SURFACE COURSE WILL BE PLACED UNDER TIP PROJECT I-5987B AND OTHER WORK IS COMPLETED UNDER TIP PROJECT U-2519AAAB SUPPLEMENTAL AGREEMENT

## PAVEMENT MARKING SCHEDULE

THERMOPLASTIC		
Symbol	Description	Material
T20	WHITE EDGELINE (6", 90 MIL)	Thermo
T30	YELLOW EDGELINE (6", 90 MIL)	Thermo
T22	10 FT. WHITE SKIP (6", 90 MIL)	Thermo
T23	3 FT. - 9 FT./SP WHITE MINISKIP (6", 90 MIL)	Thermo
T50	WHITE GORELINE (12", 90 MIL)	Thermo
T53	WHITE SOLID LANE LINE (12", 90 MIL)	Thermo
T79	MERGE ARROW (90 MIL)	Thermo
COLD APPLIED PLASTIC TAPE, TYPE 2		
Symbol	Description	Material
C20	WHITE EDGELINE (6")	Cold Applied Plastic
C30	YELLOW EDGELINE (6")	Cold Applied Plastic
C22	10 FT. WHITE SKIP (6")	Cold Applied Plastic

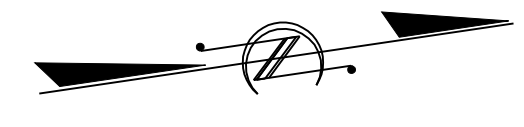
**Balfour Beatty**  **BRANCH**  
 Infrastructure Inc. CIVIL  
*A Joint Venture*

*in association with*  

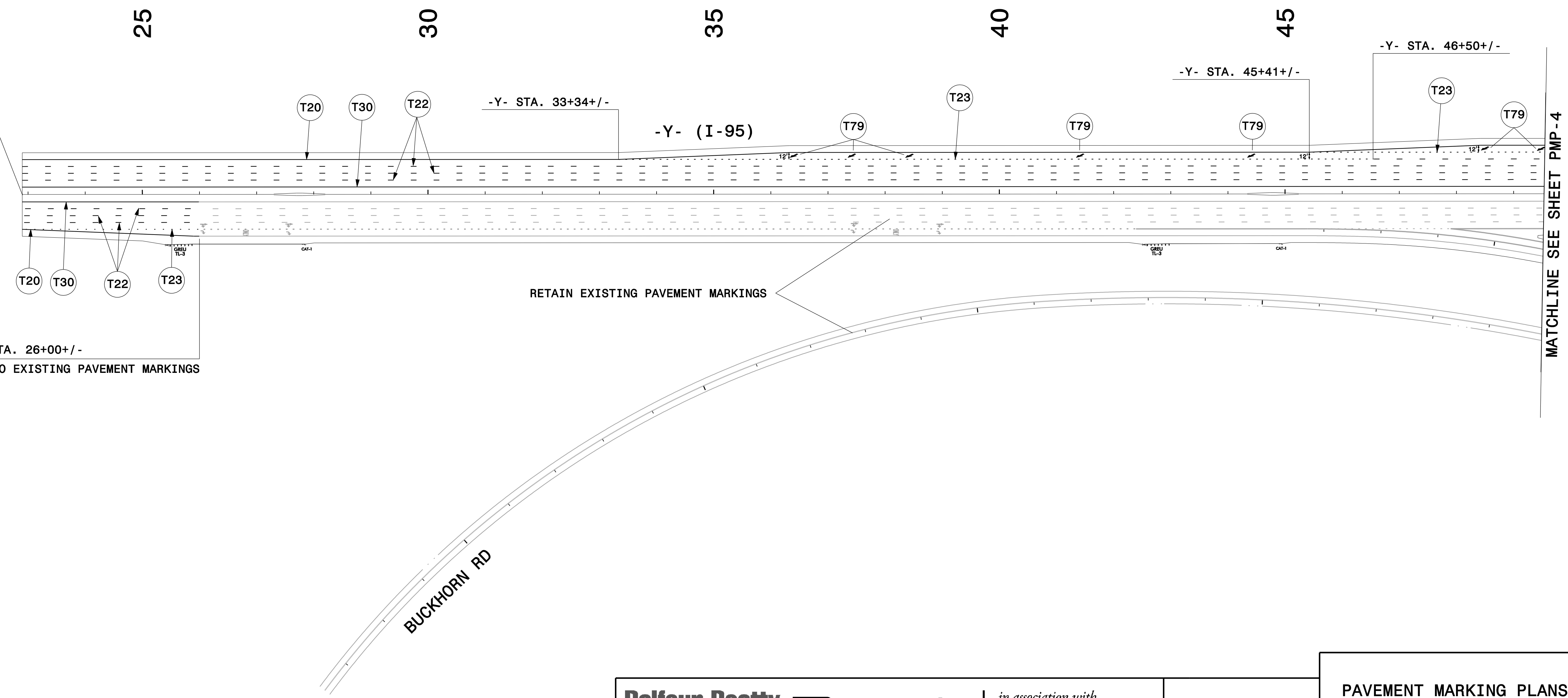

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PAVEMENT MARKING PLANS  
 PLACED UNDER TIP I-5987B  
 FOR ULTIMATE PATTERN

TIP NO. <b>U-2519AAAB-SA</b>	SHEET NO. <b>PMP-3</b>
APPROVED: <i>Tim Arcy</i>	
DATE: 03/29/22	
SEAL	
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BEGIN PM PROJECT IN U-2519AAAB SA  
 -Y- POT STA. 22+89.87 =  
 -L- POT 915+07.85 (I-5987B)  
 TIE TO I-5987B PAVEMENT MARKINGS



-Y- STA. 26+00+/-  
 TIE TO EXISTING PAVEMENT MARKINGS

**Balfour Beatty** **BRANCH**  
 Infrastructure Inc. CIVIL  
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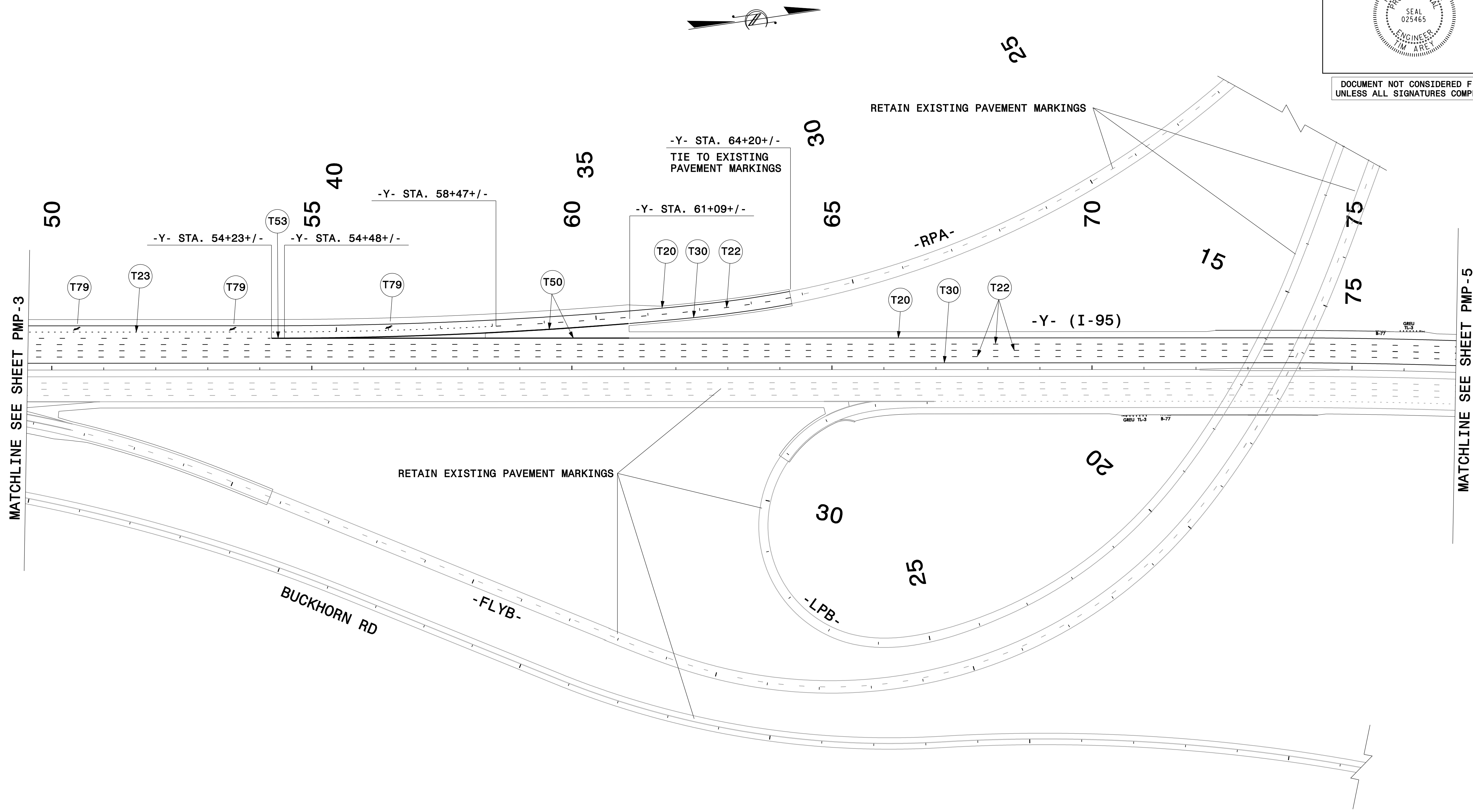
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TIP NO. U-2519AAAB-SA	SHEET NO. PMP-4
APPROVED: <i>Tim Arcy</i>	
DATE: 03/29/22	
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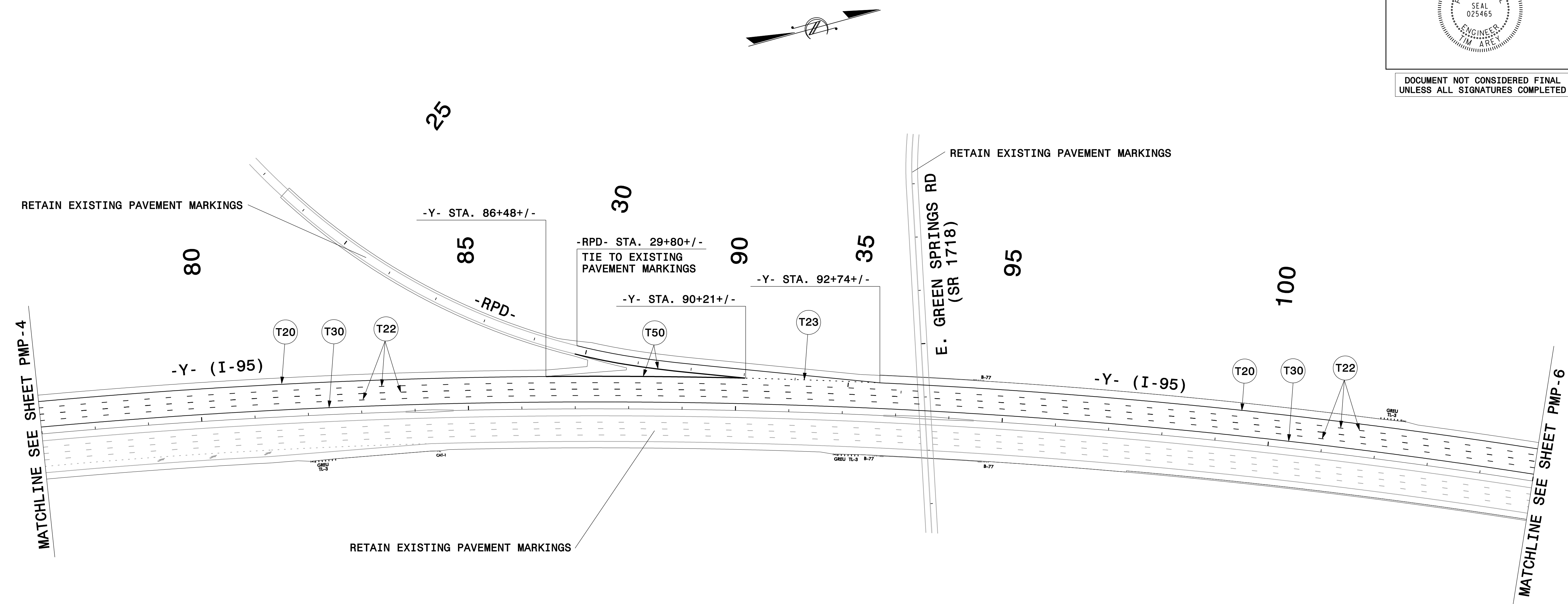
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TIP NO. U-2519AAAB-SA	SHEET NO. PMP-5
APPROVED: <i>Tim Arcy</i>	
DATE: 03/29/22	
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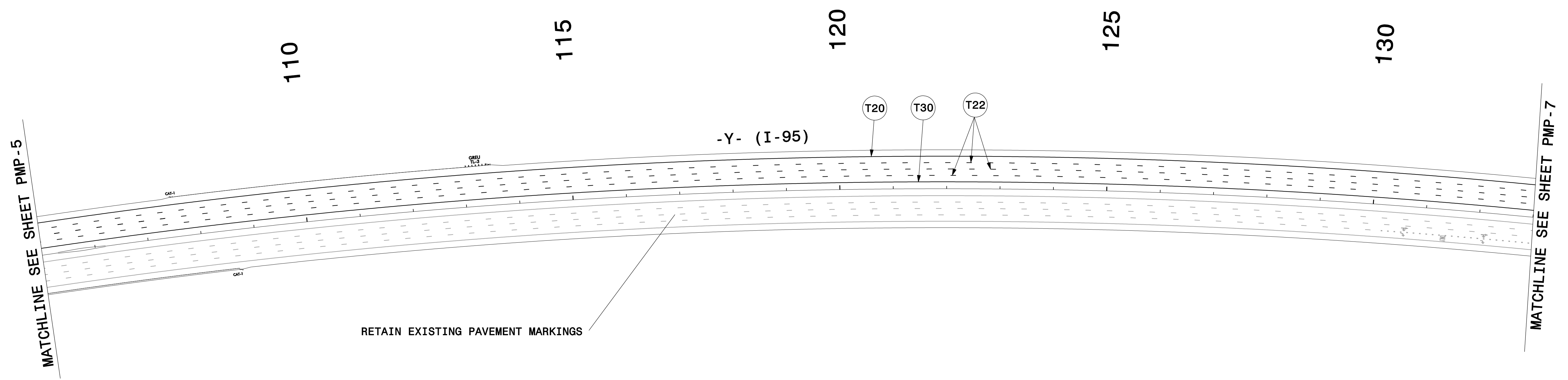
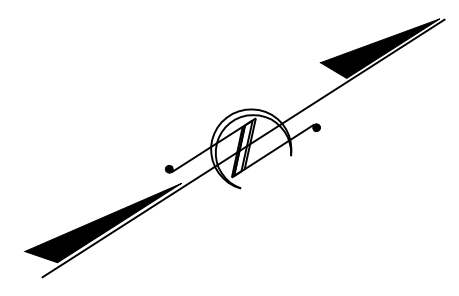
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TIP NO. U-2519AAAB-SA	SHEET NO. PMP-6
APPROVED: <i>Tim Arcy</i>	
DATE: 03/29/22	
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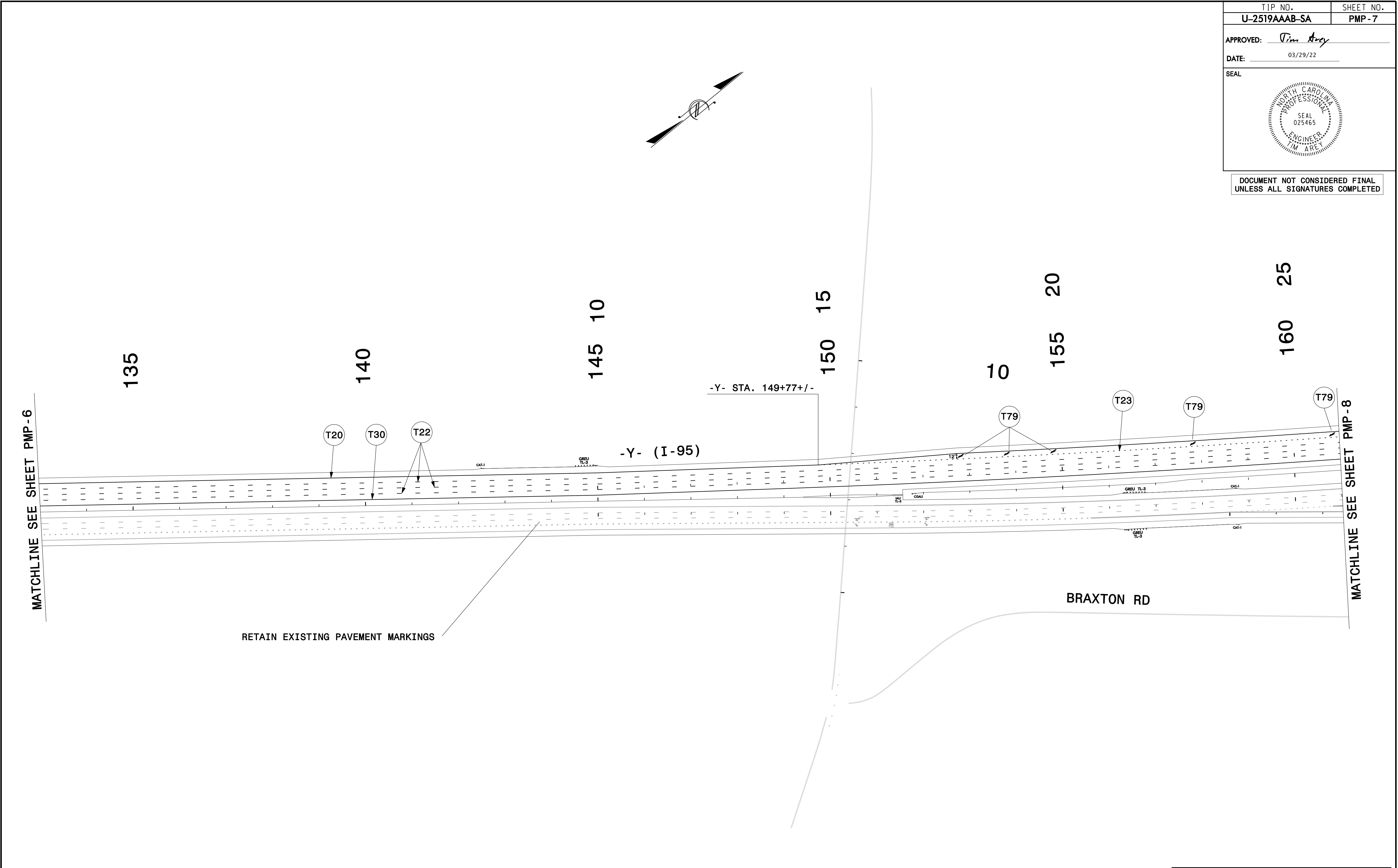
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TIP NO. U-2519AAAB-SA	SHEET NO. PMP-7
APPROVED: <i>Tim Arcy</i>	
DATE: 03/29/22	
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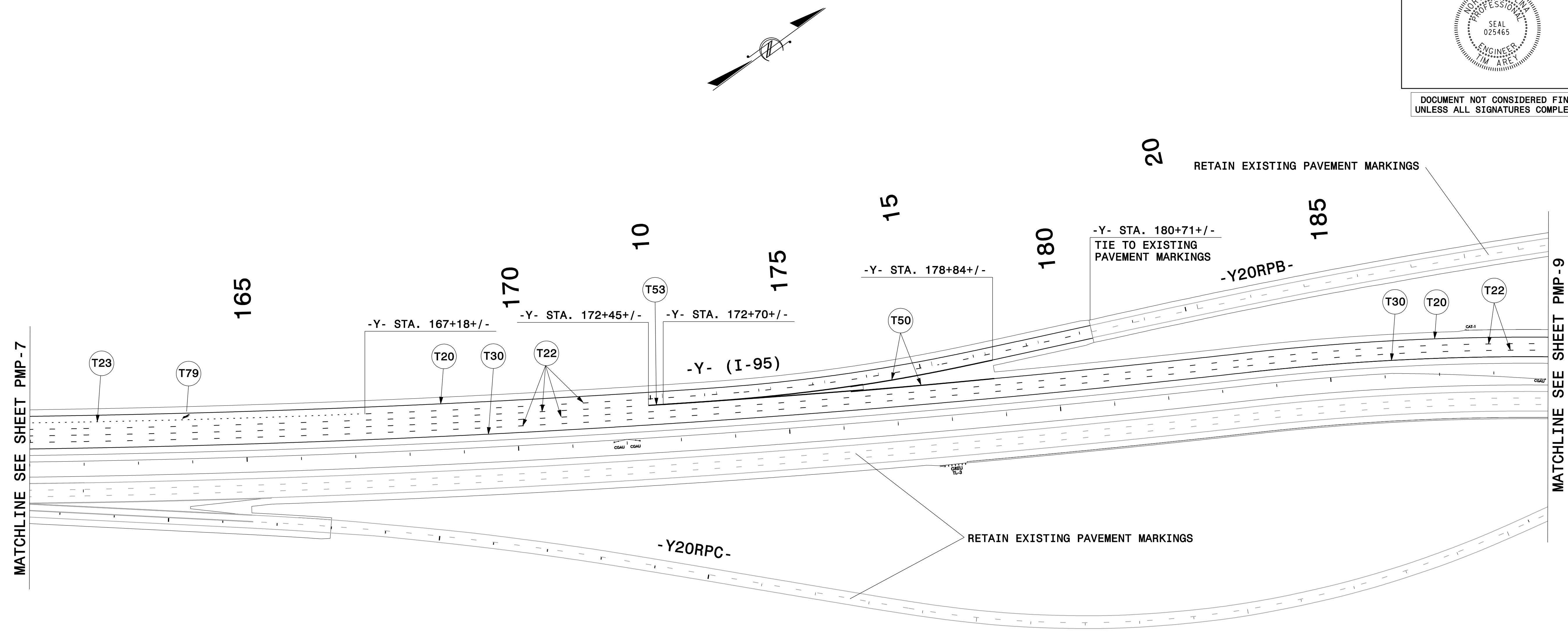
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TIP NO. U-2519AAAB-SA	SHEET NO. PMP-8
APPROVED: <i>Tim Arcy</i>	
DATE: 03/29/22	
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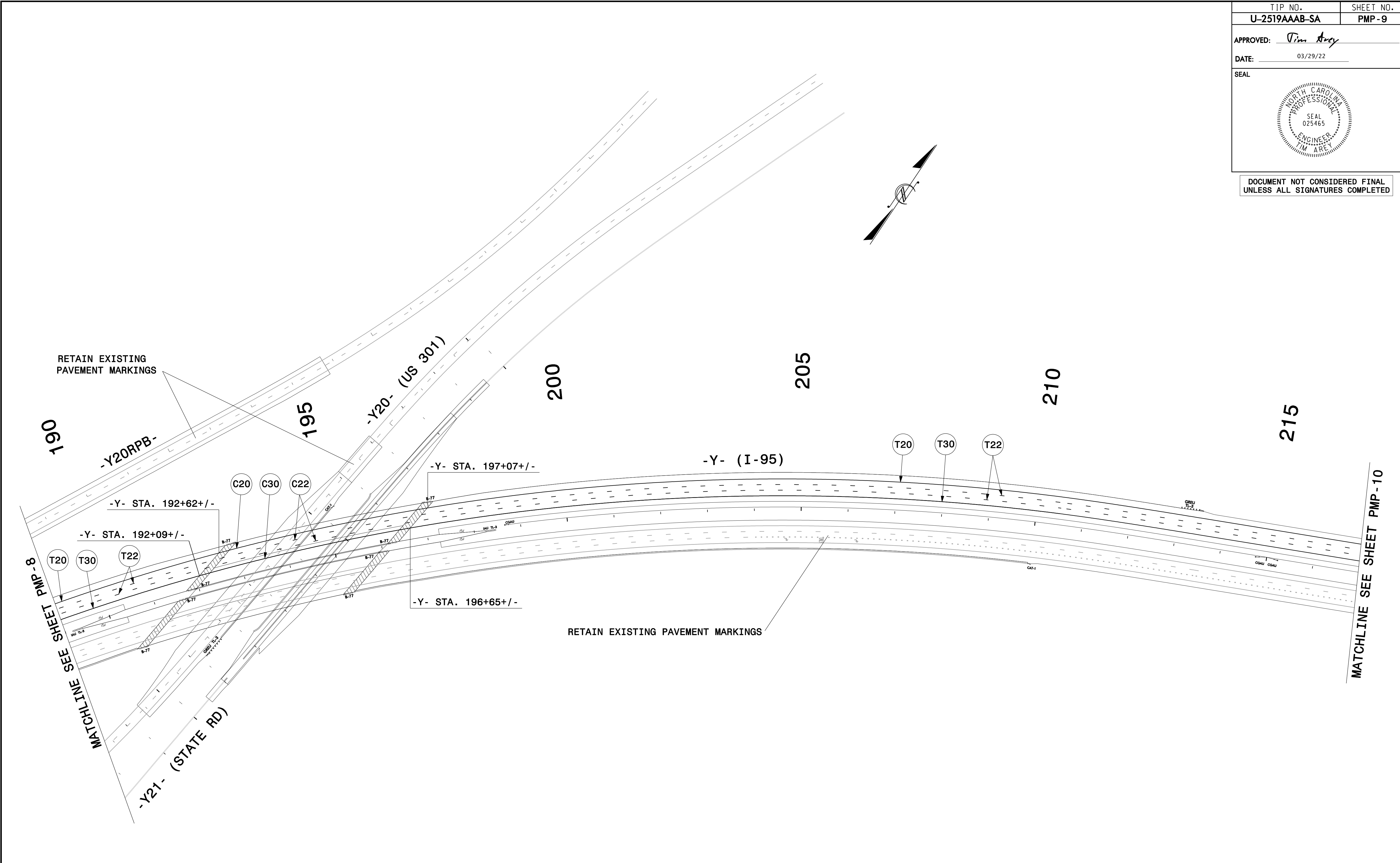
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TIP NO. U-2519AAAB-SA	SHEET NO. PMP-9
APPROVED: <i>Tim Argy</i>	
DATE: 03/29/22	
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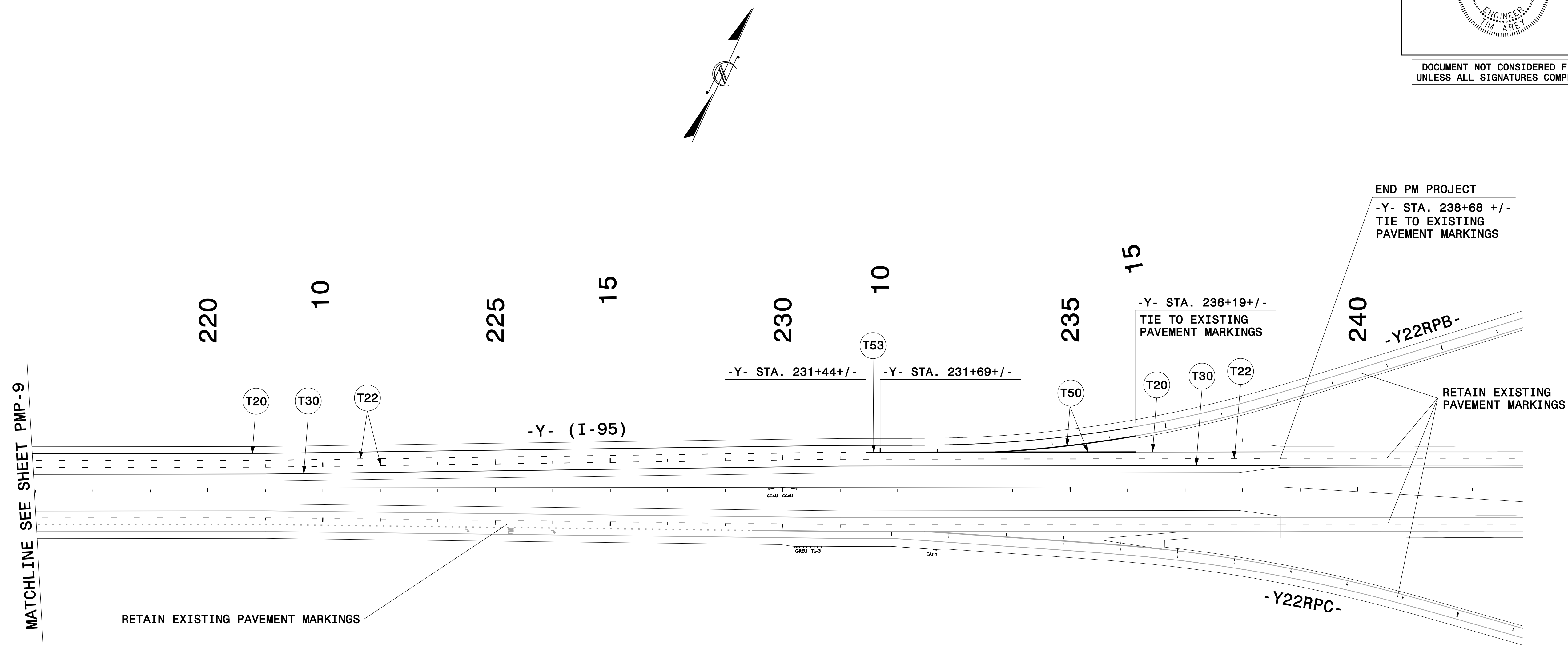
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TIP NO. <b>U-2519AAAB-SA</b>	SHEET NO. <b>PMP-10</b>
APPROVED: <i>Tim Arcy</i>	
DATE: 03/29/22	
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MATCHLINE SEE SHEET PMP-9

RETAIN EXISTING PAVEMENT MARKINGS

-Y- (I-95)

-Y- STA. 231+44+/-    -Y- STA. 231+69+/-

-Y- STA. 236+19+/-  
TIE TO EXISTING  
PAVEMENT MARKINGS

END PM PROJECT  
-Y- STA. 238+68 +/-  
TIE TO EXISTING  
PAVEMENT MARKINGS

RETAIN EXISTING  
PAVEMENT MARKINGS

-Y22RPC-

240  
-Y22RPB-

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