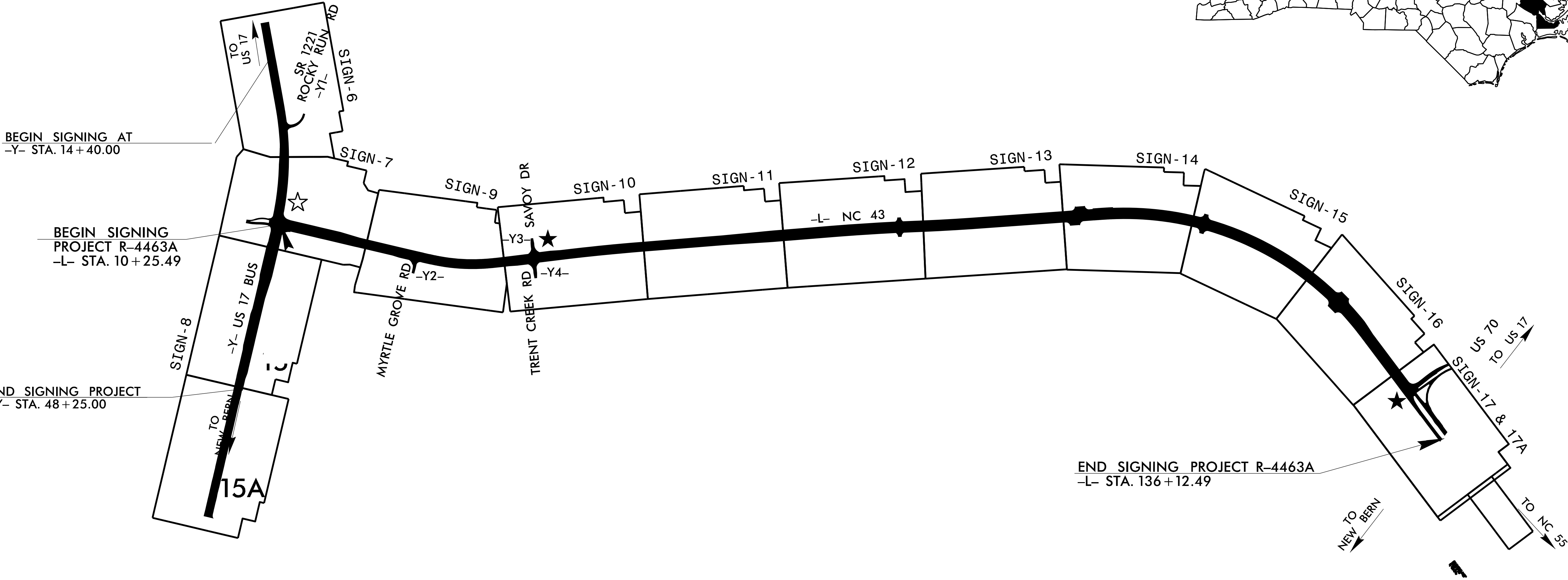
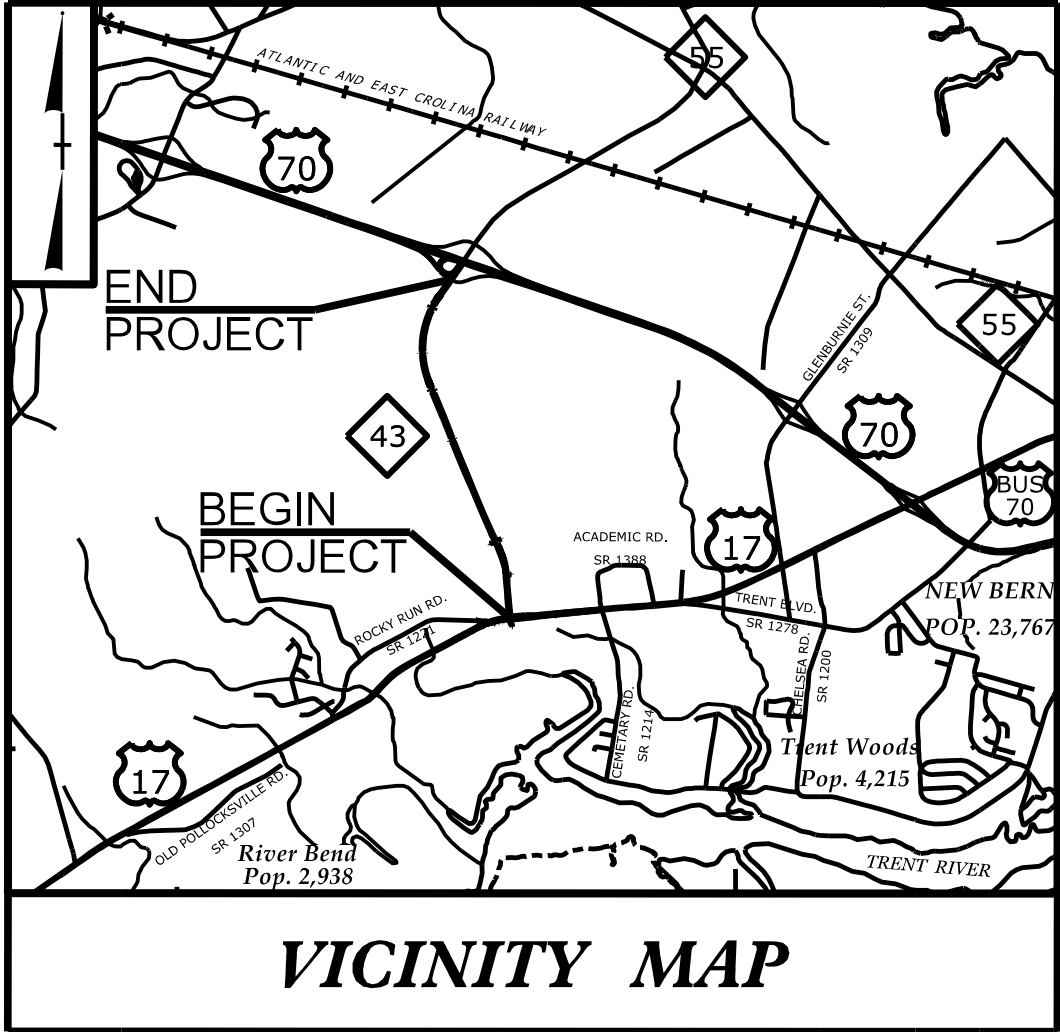
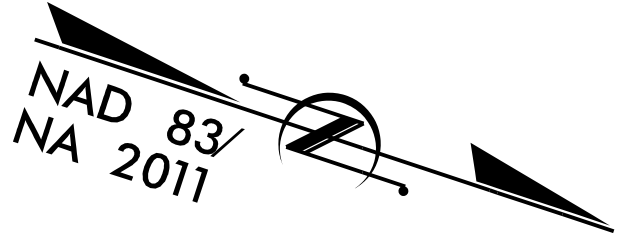


TIP PROJECT: R-4463A

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
CRAVEN COUNTY

LOCATION: NC 43 CONNECTOR FROM
US 70 TO US 17 BUSINESS



- ★ UPGRADED SIGNAL
- ★ PROPOSED SIGNAL

PLAN SUBMITTED TO: N.C.D.O.T.		
<u>D. M. EATON, PE</u>	SIGNING & DELINEATION REGIONAL ENGINEER	
_____	SIGNING & DELINEATION PROJECT DESIGN ENGINEER	

PLAN PREPARED BY: HDR Engineering, Inc. of the Carolinas	
<u>MIKE RZEPKA, PE</u>	PROJECT ENGINEER
<u>RICHARD DRAYTON</u>	TRAFFIC DESIGN ENGINEER

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-1A	NOTES
SIGN-2	SUPPORT CHART
SIGN-3 THRU SIGN-3B	SIGN DESIGNS
SIGN-4	"E" SIGNS
SIGN-5	"F" SIGNS
SIGN-6 THRU 17A	SIGN DETAIL SHEETS

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	SIGN-1
SIGNING ENGINEER 5/22/2025	
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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 - 4463A

SHEET NO.
SIGN - 1A

APPROVED: *Mike Ryzpka*
DATE: 6/6/2025

SEAL

SIGNING ENGINEER

NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
15876
MICHAEL T. RZEPKA

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



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

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
901.10	TYPE 'A' SIGNS
901.20	TYPE 'B' SIGNS
901.50	ARROWS AND SHIELDS
903.20	WOOD SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	560	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	256	L.F.
4082000000	903	SUPPORTS, WOOD	2294	L.F.
4096000000	904	SIGN ERECTION, TYPE D	4	EA.
4102000000	904	SIGN ERECTION, TYPE E	100	EA.
4108000000	904	SIGN ERECTION, TYPE F	14	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	1	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	2	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	43	EA.
4238000000	907	DISPOSAL OF SIGN, D, E OR F	1	EA.
4957000000-N	1264	OBJECT MARKERS (TYPE 1)	18	EA.
4955000000-N	1264	OBJECT MARKERS (END OF ROAD)	28	EA.
4915000000-E	1264	7' U-CHANNEL POSTS	28	EA.

GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . DO NOT BEGIN FABRICATION FOR TYPES A & B SIGNS MOUNTED ON OVERHEAD STRUCTURES OR STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

PROJECT NOTES

1. DISPOSAL OF SIGN SYSTEM, WOOD
2. RELOCATED BY OTHERS
3. DISPOSAL OF SIGN, D, E OR F

NOTES

TIP NO.
R-4463A

SHEET NO.
SIGN-2

APPROVED: *Michael T. Rzepka*

DATE: 5/22/2025

SEAL

SIGNING ENGINEER

NORTH CAROLINA
PROFESSIONAL
ENGINEER
15876
MICHAEL T. RZEPKA

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

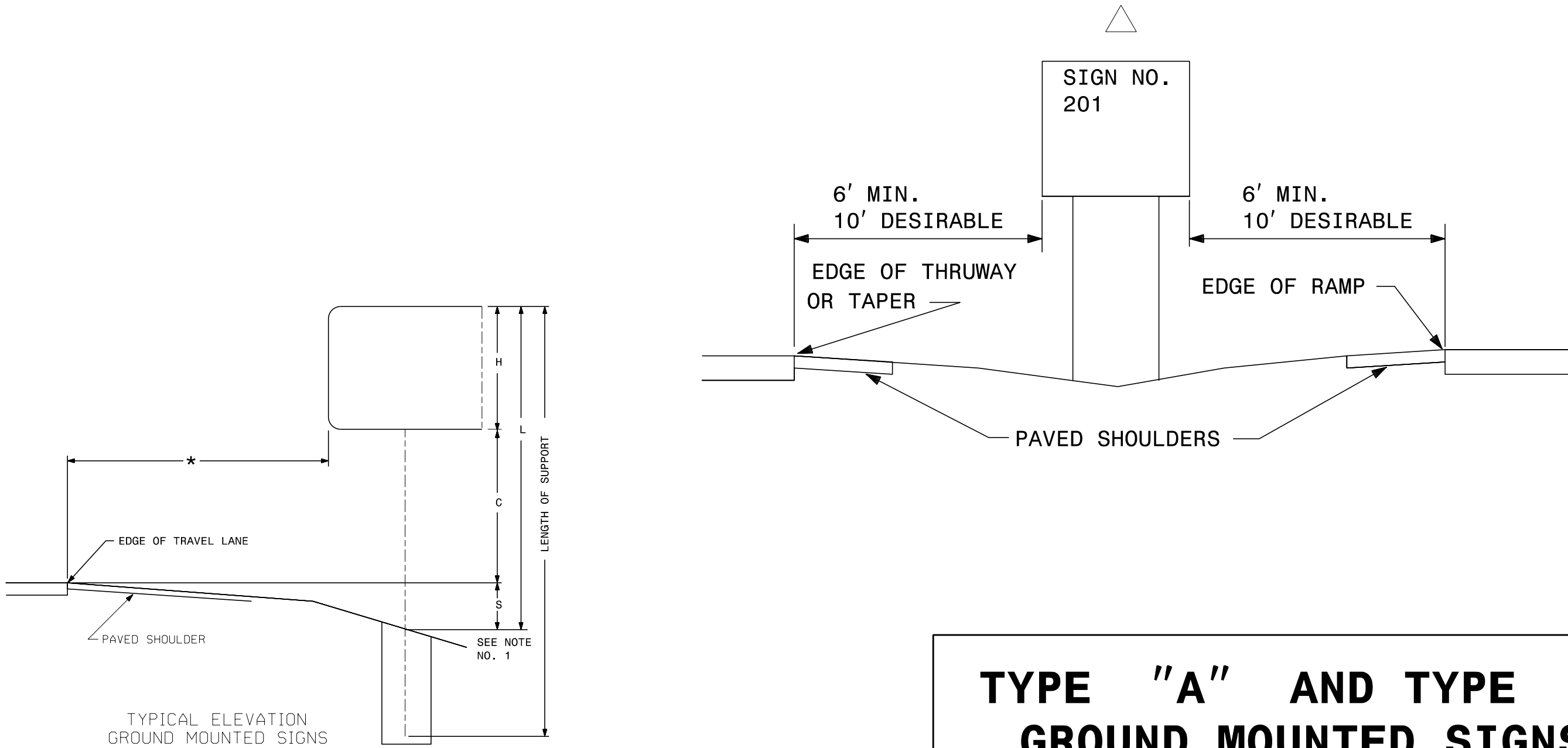


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N.C.B.E.L.S. License Number: F-0116

SIGN					ROADWAY STATION	NUMBER OF SUPPORTS	BEAM SECTION	SUPPORT TYPE BA or S	OMNI COUPLER	ATTACHMENT METHOD	MOUNTING METHOD	HORIZONTAL CLEARANCE* (ft.)	SUPPORT SPACING	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			SUPPORT WEIGHTS		FOOTINGS				FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)	
NUMBER	TYPE	SIZE (in.)												SNS HT	MTG HT	EMBED-												DIAMETER (ft.)	DEPTH (ft.)	REINFORCED (c.y.)	PLAIN (c.y.)		
		w	x	h										"H"	"C"	MENT	S	L	LENGTH	S	L	LENGTH	S	L	LENGTH	B/A (lbs.)	SIMPLE (lbs.)						
101	B	114	x	30	SEE SIGN-17	2	S3x5.7	BA	N/A	N/A	N/A	30.00	5.57	2.50	7.00	2.5	3.00	12.50	15.00	0.00	0.00	0.00	2.00	11.50	14.00	201.30	0	1.0	3	0.00	0.17	_____	
201A 201B	A B	72 72	x x	60 24	132+10 -L-	2	S4x7.7	BA	N/A	N/A N/A	N/A II	Δ	3.52	7.00	7.00	3.0	3.20	17.20	20.20	0.00	0.00	0.00	4.10	18.10	21.10	358.01	0	1.0	3.5	0.00	0.20	_____	
																								TOTAL 559.31	TOTAL 0.00					TOTAL 0.00	TOTAL 0.38		
USE:																								560.00	0.00					0.00	1.00		

NOTES

1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
2. FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES
3. PLAN LOCATIONS FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.



SIGN NUMBER: 201A TYPE: A QUANTITY: 1 SIGN WIDTH: 6'-0" HEIGHT: 5'-0" TOTAL AREA: 30.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 1.5" RADII: 6" NO. Z BARS: 2 LENGTH: 64.0	BACKG COLOR: Green COPY COLOR: White <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr></thead><tbody><tr><td>AR_Type A</td><td>24.5</td><td>6.5</td><td>18.3</td><td>29.3</td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></tbody></table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WID	HT	AR_Type A	24.5	6.5	18.3	29.3																															DESIGN BY: R DRAYTON CHECKED BY: R KING PROJECT ID: R-4463A Sep 20, 2019 DIV: 2
SYMBOL	X	Y	WID	HT																																						
AR_Type A	24.5	6.5	18.3	29.3																																						
USE NOTES: 1,2 1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting. 2. Background shall be Grade C reflective sheeting. BORDER R=6" TH=1.5" INCREASE "EXIT" SPACING BY 2.25 Spacing Factor is 1 unless specified otherwise																																										

[illegible]

FILENAME: R-4463A_SignDesigns

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 101	BACKG COLOR: Green	DESIGN BY: R KING	DATE: Sep 25, 2019
TYPE: B	COPY COLOR: White	PROJECT ID: R-4463A	DIV: 2
QUANTITY: 1			

SYMBOL	X	Y	WID	HT
AR_Type D	6.3	12	6	9

SIGN WIDTH: 9'-6"	
HEIGHT: 2'-6"	
TOTAL AREA: 23.8 Sq.Ft.	
BORDER TYPE: FLUSH	
RECESS: 0"	
WIDTH: 0.75"	
RADII: 3"	
NO. Z BARS: 2	
LENGTH: 106.0	

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.

BORDER
R=3"
TH=0.75"

Spacing Factor is 1 unless specified otherwise

[illegible]

FILENAME: R-4463A_SignDesigns

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 201B		BACKG COLOR: Yellow		DESIGN BY: R DRAYTON		CHECKED BY: R KING		Sep 20, 2019																													
TYPE: B		COPY COLOR: Black		PROJECT ID: R-4463A		DIV: 2																															
QUANTITY: 1		<table><tr><td>SYMBOL</td><td>X</td><td>Y</td><td>WID</td><td>HT</td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr></table>		SYMBOL	X	Y	WID	HT																													
SYMBOL	X	Y	WID	HT																																	
SIGN WIDTH: 6'-0"																																					
HEIGHT: 2'-0"																																					
TOTAL AREA: 12.0 Sq.Ft.																																					
BORDER TYPE: RECESSED																																					
RECESS: 0.63"																																					
WIDTH: 0.88"																																					
RADII: 3"																																					
NO. Z BARS:		MAT'L: 0.125" (3.2 mm) ALUMINUM																																			
LENGTH:																																					
USE NOTES: 1,2																																					
1. Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.																																					
2. Background shall be Grade C reflective sheeting.																																					

25 MPH

72"

24"

7"

10"E

7"

7.25"

57.5"

7.25"

BORDER
R=3"
TH=0.88"
IN=0.63"

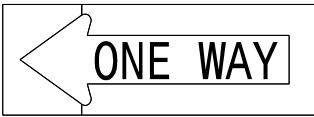
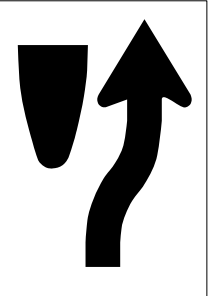
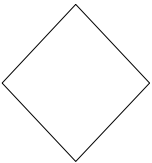
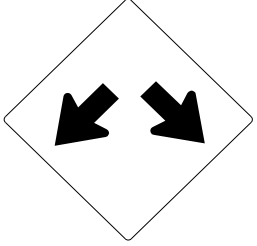
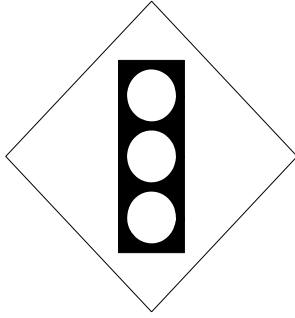
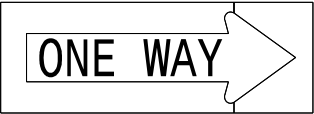
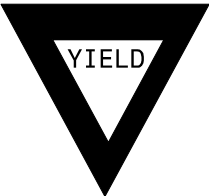
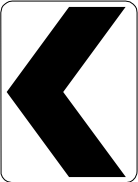
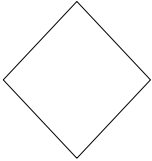
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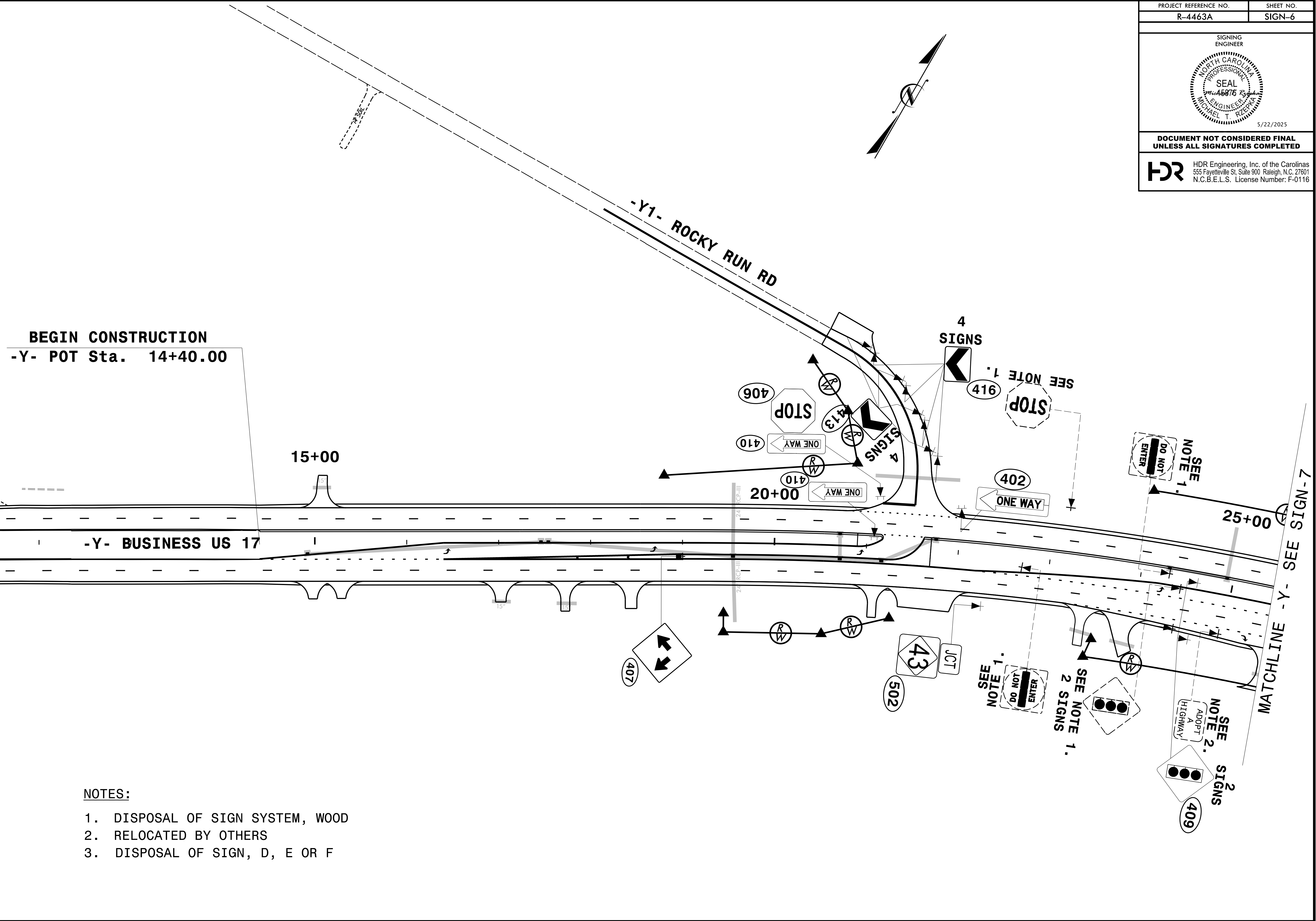
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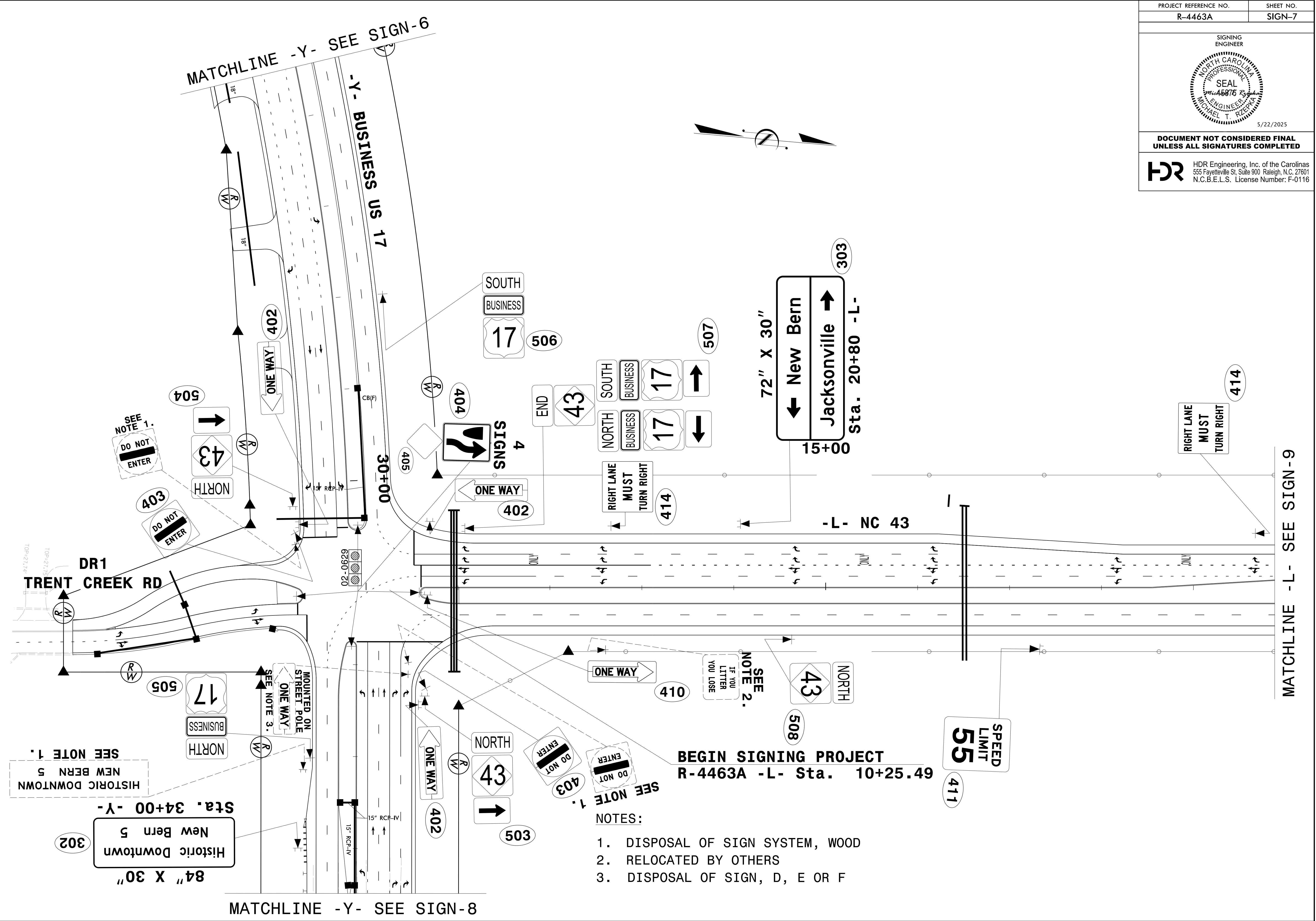
NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN DESIGNS

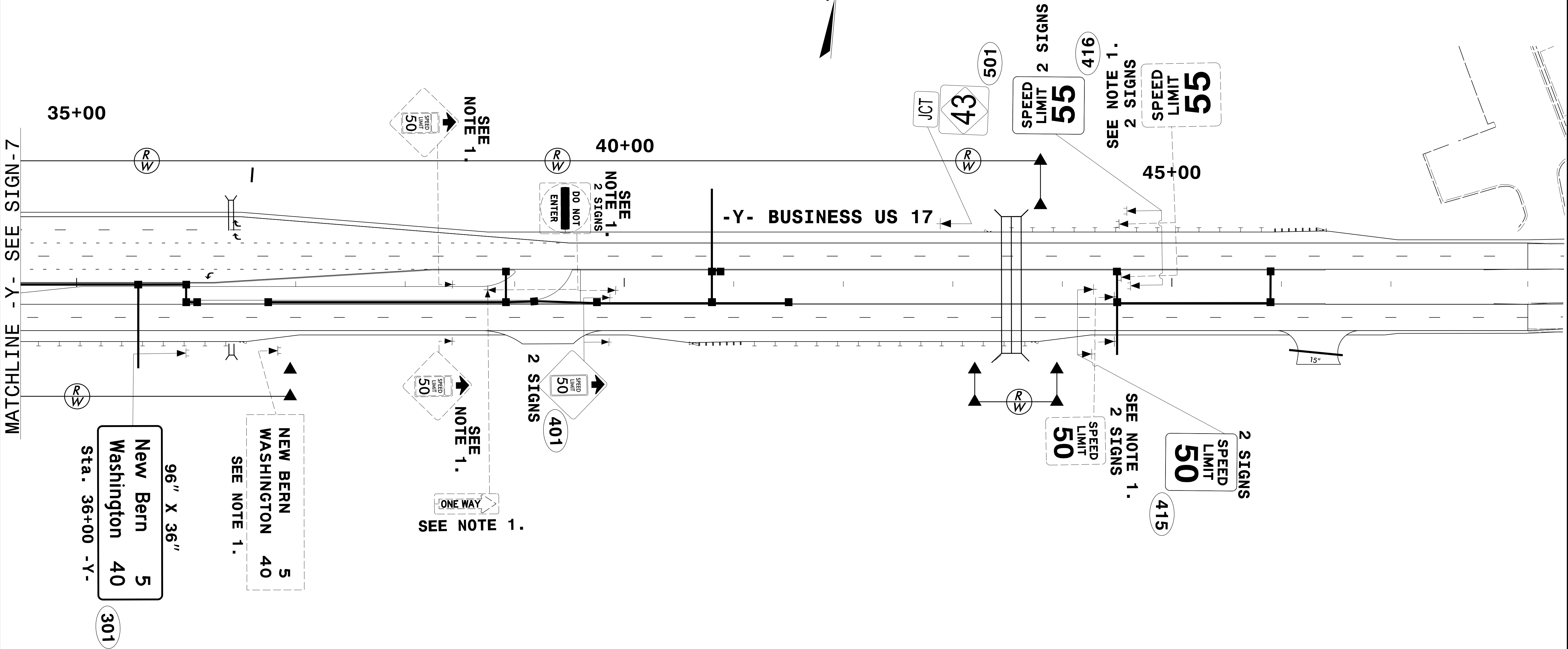
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 36 X 36 W3-5		 54 X 18 R6-1 (L)		 36 X 36 R5-1		 24 X 30 R4-7		 18 X 18 OM1-3		 36 X 36 R1-1		APPROVED: <i>Mike Ryple</i> DATE: 6/6/2025	
ONE WOOD POST PER SIGN		TWO WOOD POSTS PER SIGN		ONE WOOD POST PER SIGN		(10 SIGNS MOUNTED ON U-CHANNEL POSTS) (8 SIGNS MOUNTED ON WOOD POSTS)		MOUNT BELOW SIGN 404 IN 18 INSTALLATIONS		MOUNT BELOW SIGN 410 IN 3 INSTALLATIONS		SEAL SIGNING ENGINEER 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		 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											
407 QUANTITY REQ'D 4		408 QUANTITY REQ'D 16		409 QUANTITY REQ'D 2		410 QUANTITY REQ'D 8		411 QUANTITY REQ'D 6		412 QUANTITY REQ'D 1		413 QUANTITY REQ'D 11	
 36 X 36 W12-1		 42 X 30 R5-1a		 36 X 36 W3-3		 54 X 18 R6-1 (R)		 30 X 36 R2-1		 48 X 48 X 48 R1-2		 30 X 36 W1-8 (R)	
ONE U CHANNEL POST PER SIGN		ONE WOOD POST PER SIGN		ONE WOOD POST PER SIGN		(2 SIGNS MOUNTED ON U-CHANNEL POSTS) (6 SIGNS MOUNTED ON WOOD POSTS) TWO U CHANNEL POSTS PER SIGN		ONE WOOD POST PER SIGN		TWO WOOD POST		TWO WOOD POSTS PER SIGN	
414 QUANTITY REQ'D 2		415 QUANTITY REQ'D 2		416 QUANTITY REQ'D 4		417 QUANTITY REQ'D 28							
 36 X 36 R3-7		 30 X 36 R2-1		 30 X 36 W1-8 (L)		 18 X 18 OM4-3							
ONE WOOD POST PER SIGN		ONE WOOD POST PER SIGN		TWO WOOD POSTS PER SIGN		7' U-CHANNEL POSTS							
												TYPE "E" SIGNS	



PROJECT REFERENCE NO.	SHEET NO.
R-4463A	SIGN-7
SIGNING ENGINEER NORTH CAROLINA PROFESSIONAL SEAL Michael T. Rzepka 5/22/2025 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED HDR 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	

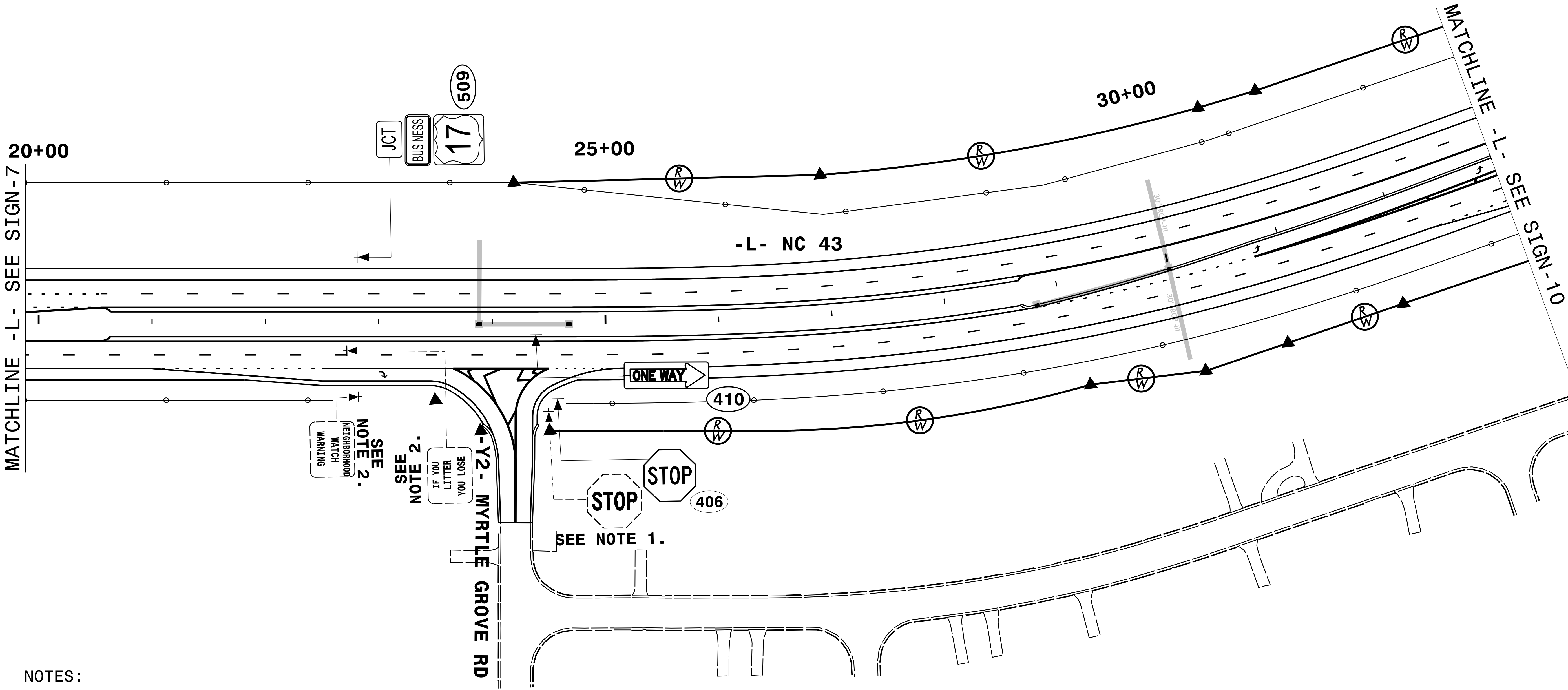


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R-4463A	SIGN-8
SIGNING ENGINEER	
	
5/22/2025	
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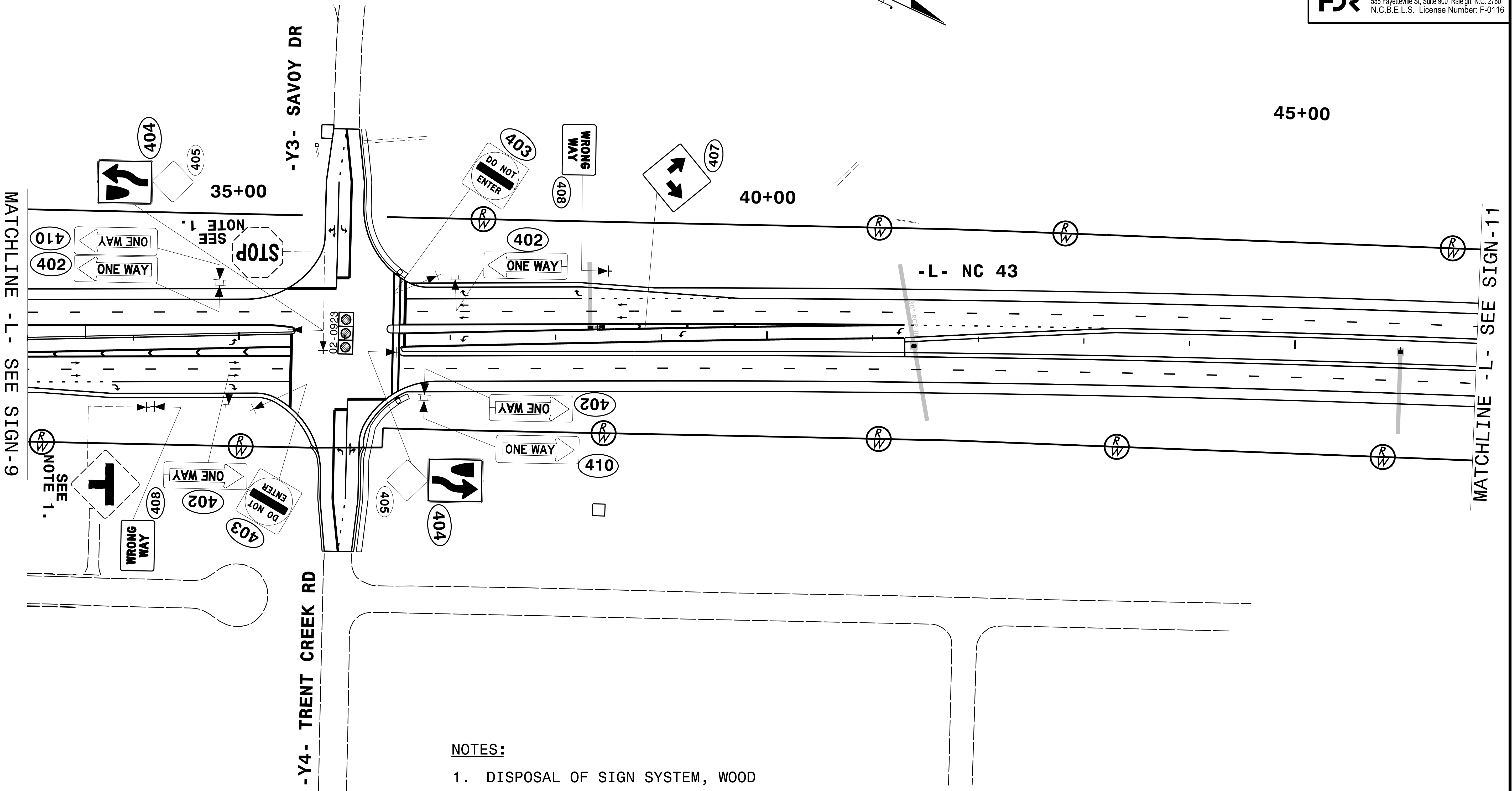
- NOTES:
1. DISPOSAL OF SIGN SYSTEM, WOOD
 2. RELOCATED BY OTHERS
 3. DISPOSAL OF SIGN, D, E OR F

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	SIGN-9
SIGNING ENGINEER	
	
5/22/2025	
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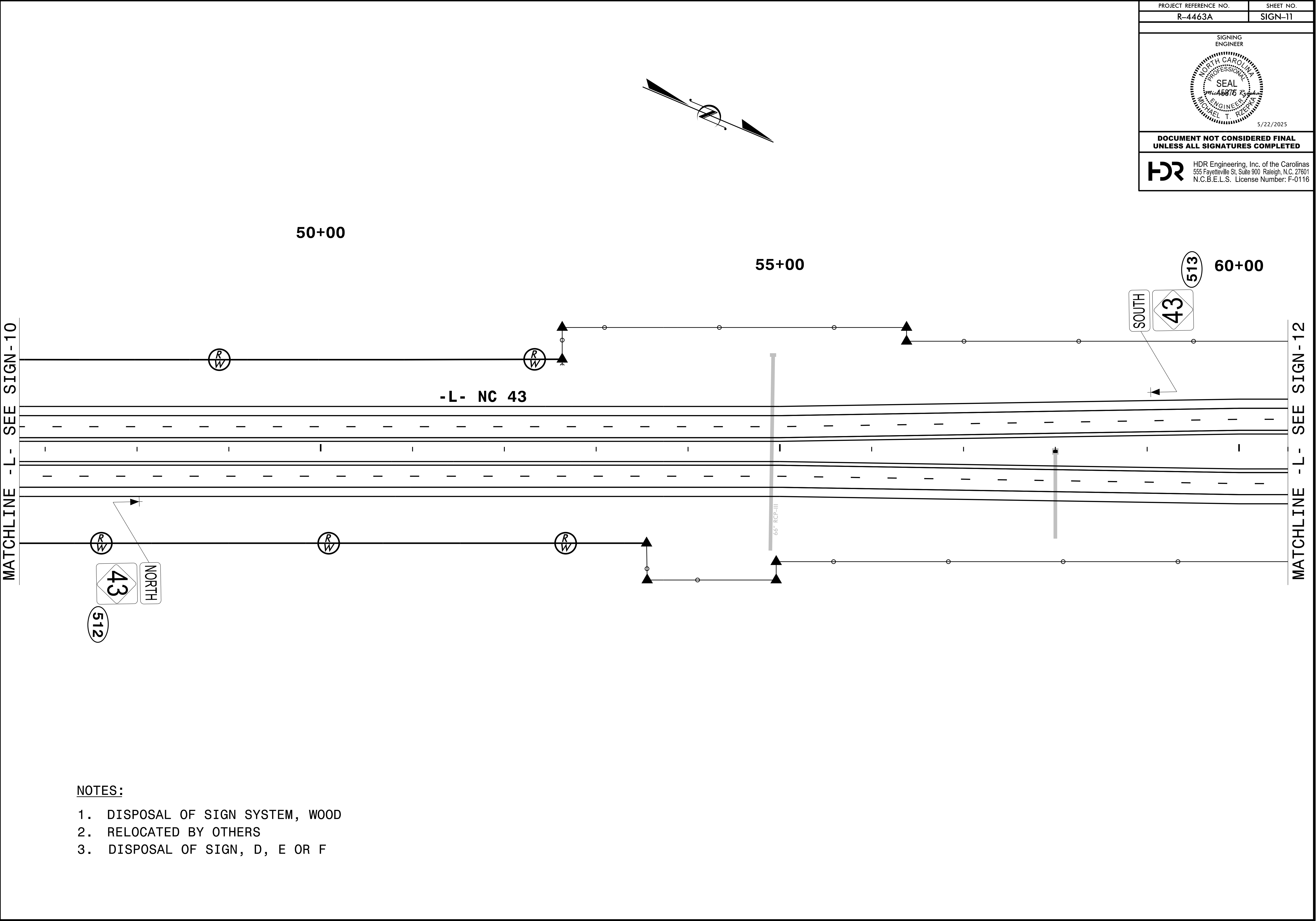


- NOTES:
- 1. DISPOSAL OF SIGN SYSTEM, WOOD
 - 2. RELOCATED BY OTHERS
 - 3. DISPOSAL OF SIGN, D, E OR F

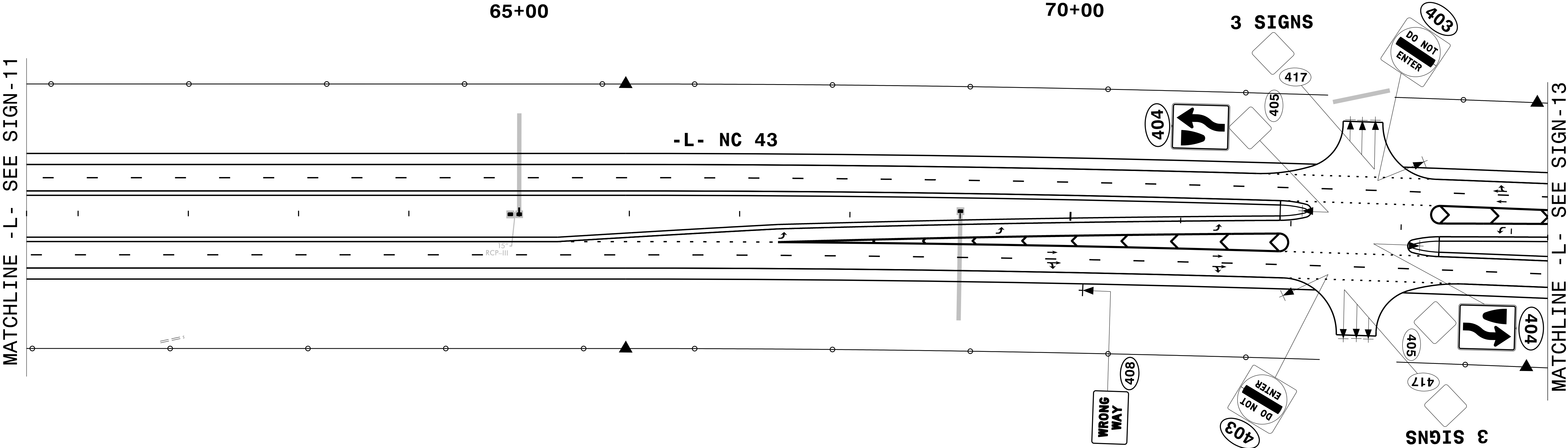
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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PROJECT REFERENCE NO.	SHEET NO.
R-4463A	SIGN-11
SIGNING ENGINEER  5/22/2025 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED 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	

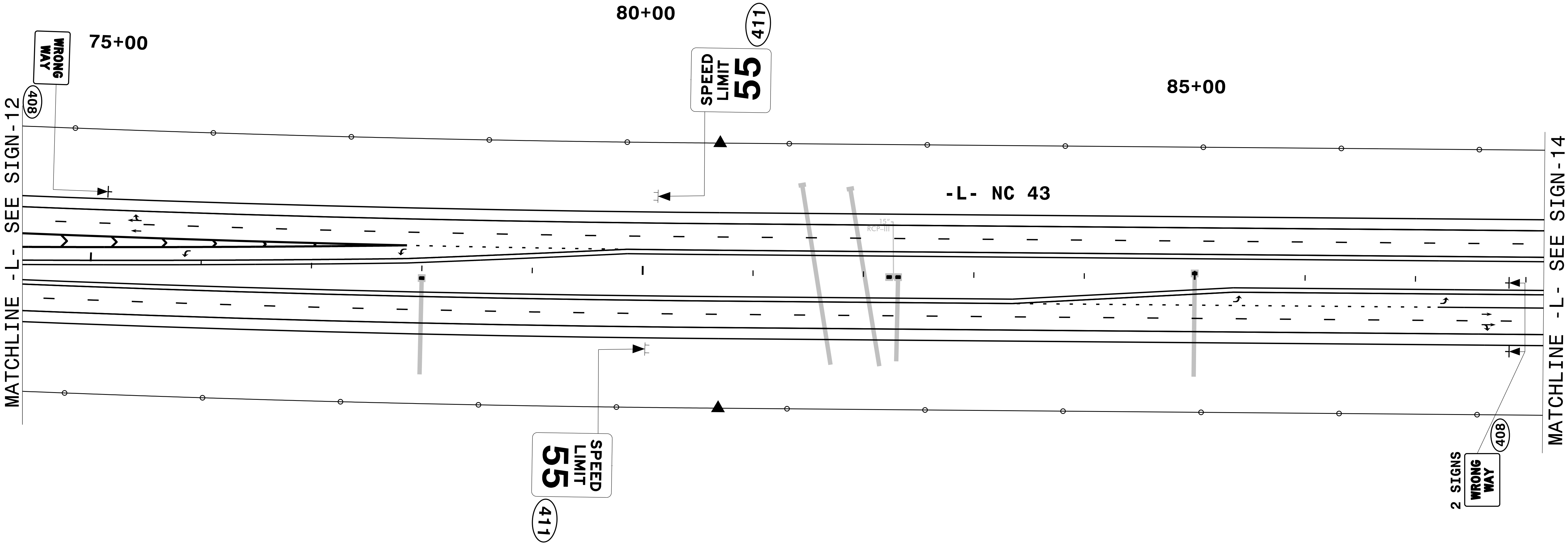


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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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- NOTES:
1. DISPOSAL OF SIGN SYSTEM, WOOD
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 3. DISPOSAL OF SIGN, D, E OR F

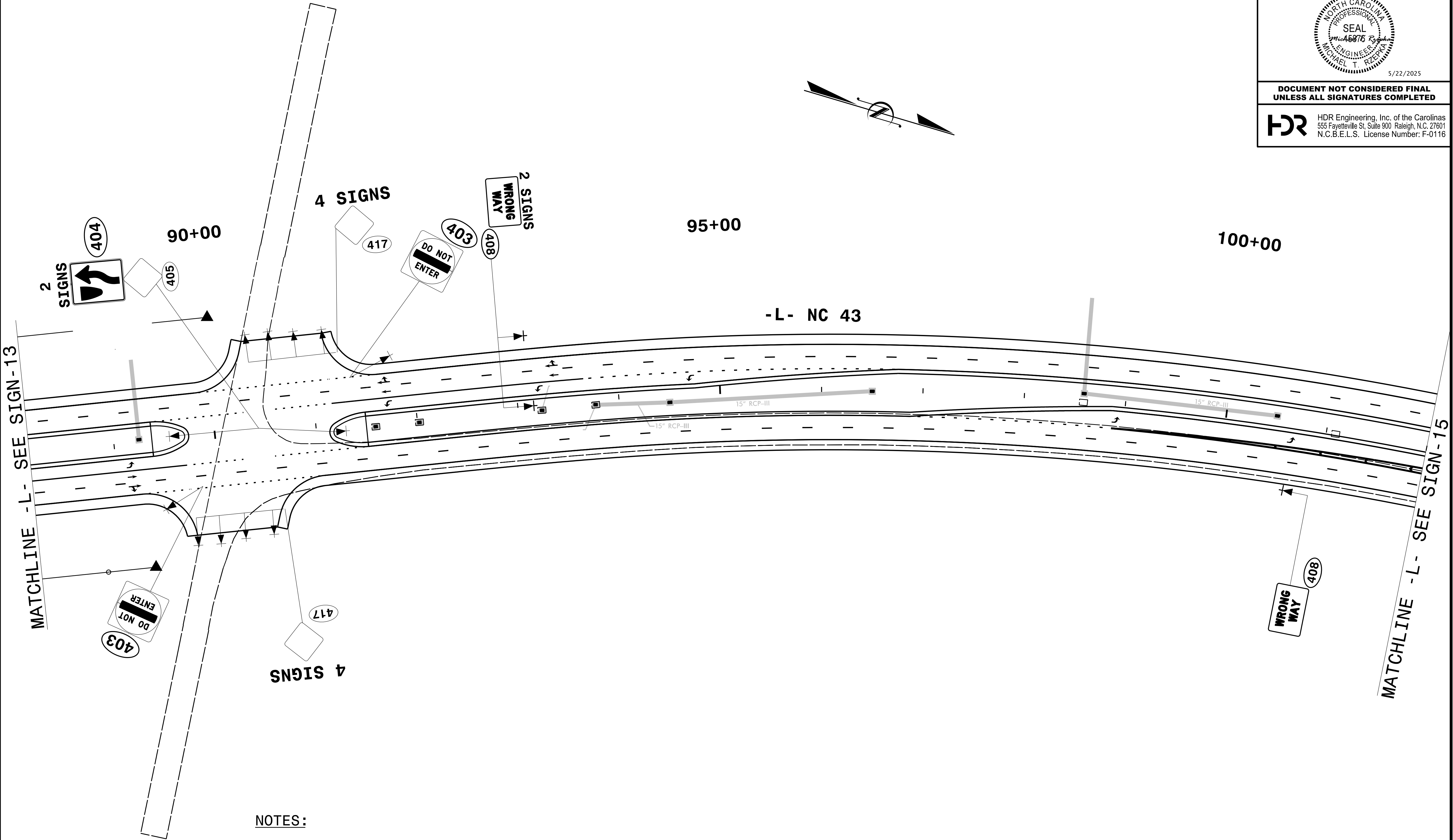
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R-4463A	SIGN-13
SIGNING ENGINEER  5/22/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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NOTES:

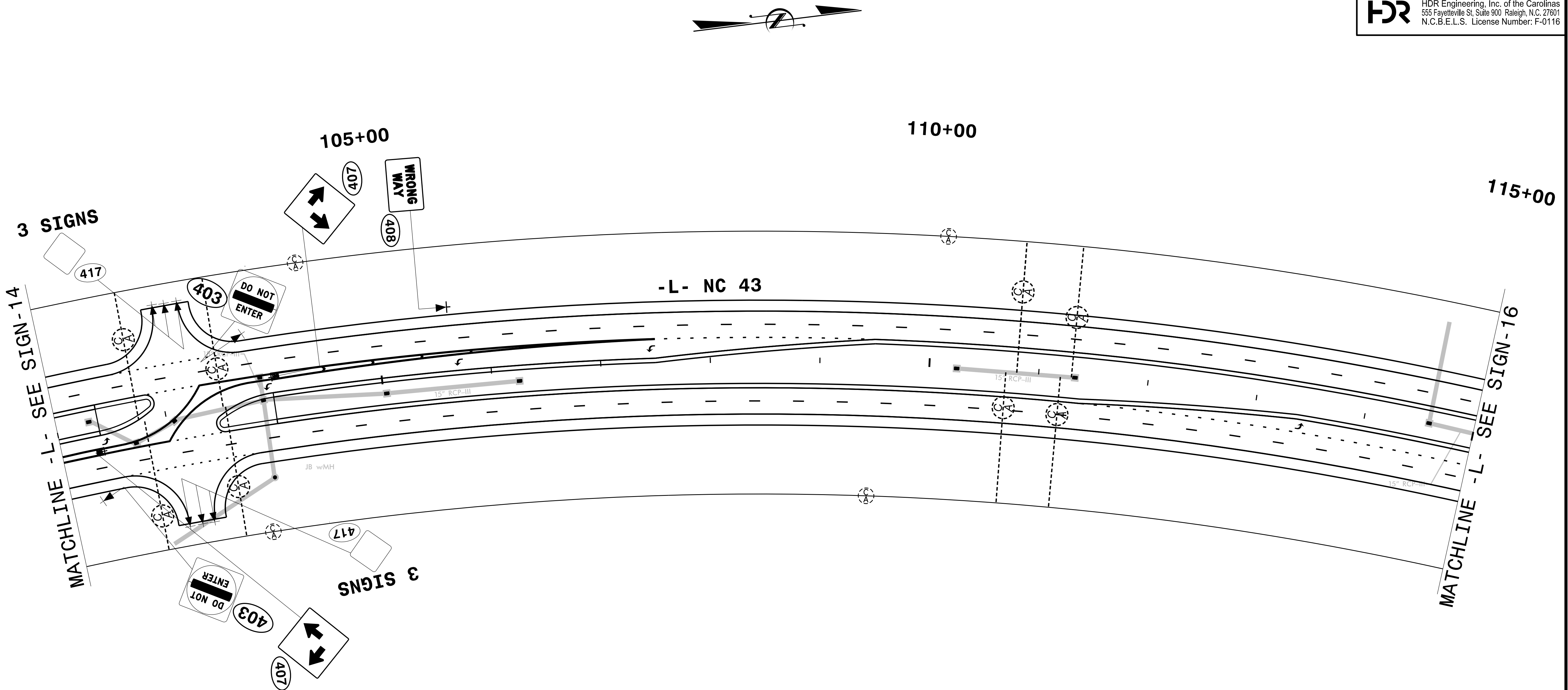
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- 2. RELOCATED BY OTHERS
- 3. DISPOSAL OF SIGN, D, E OR F

PROJECT REFERENCE NO.	SHEET NO.
R-4463A	SIGN-14
SIGNING ENGINEER  5/22/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
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NOTES:

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2. RELOCATED BY OTHERS
3. DISPOSAL OF SIGN, D, E OR F

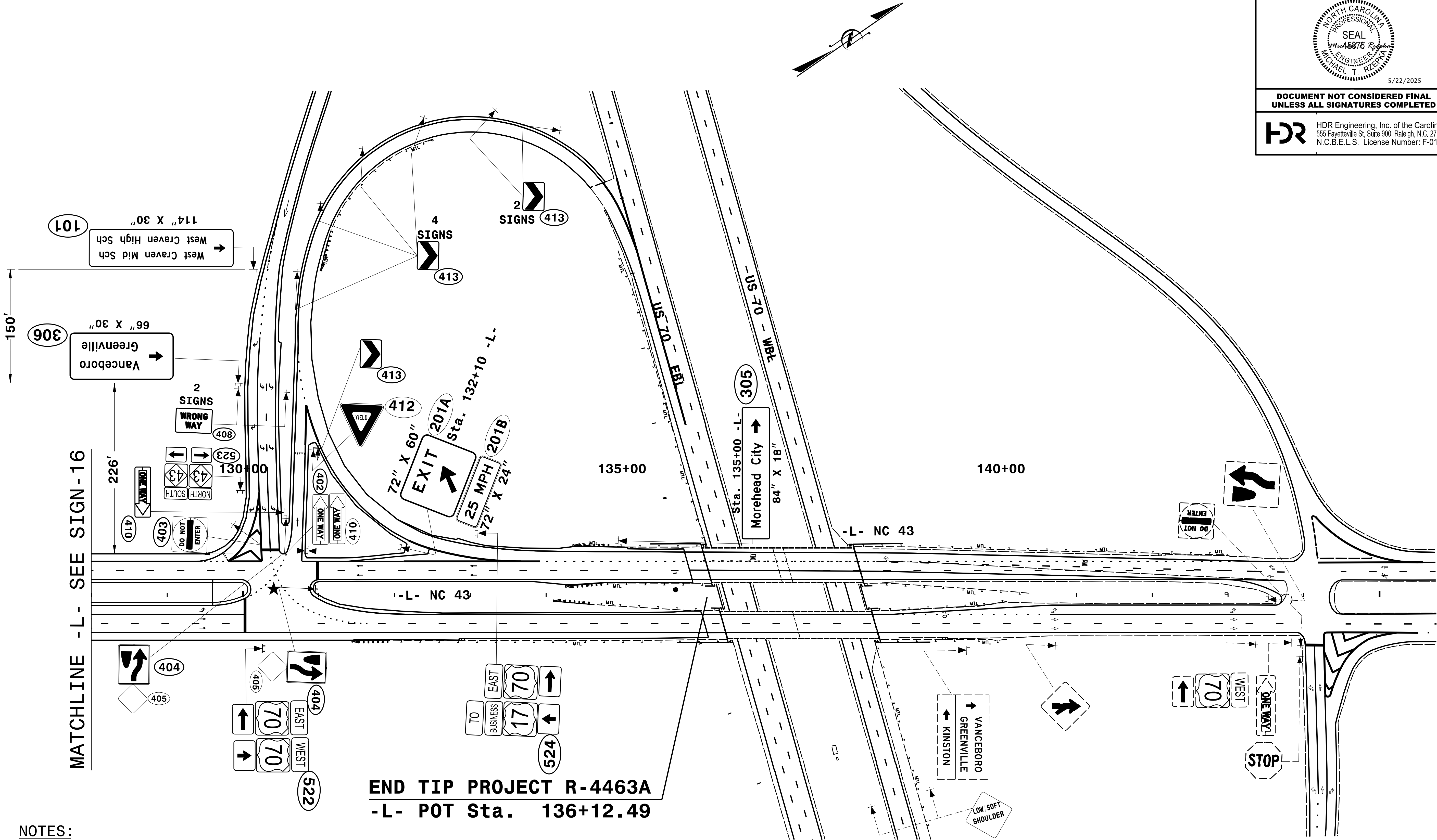


- NOTES:**
1. DISPOSAL OF SIGN SYSTEM, WOOD
 2. RELOCATED BY OTHERS
 3. DISPOSAL OF SIGN, D, E OR F

[illegible]

1. DISPOSAL OF SIGN SYSTEM, WOOD
2. RELOCATED BY OTHERS
3. DISPOSAL OF SIGN, D, E OR F

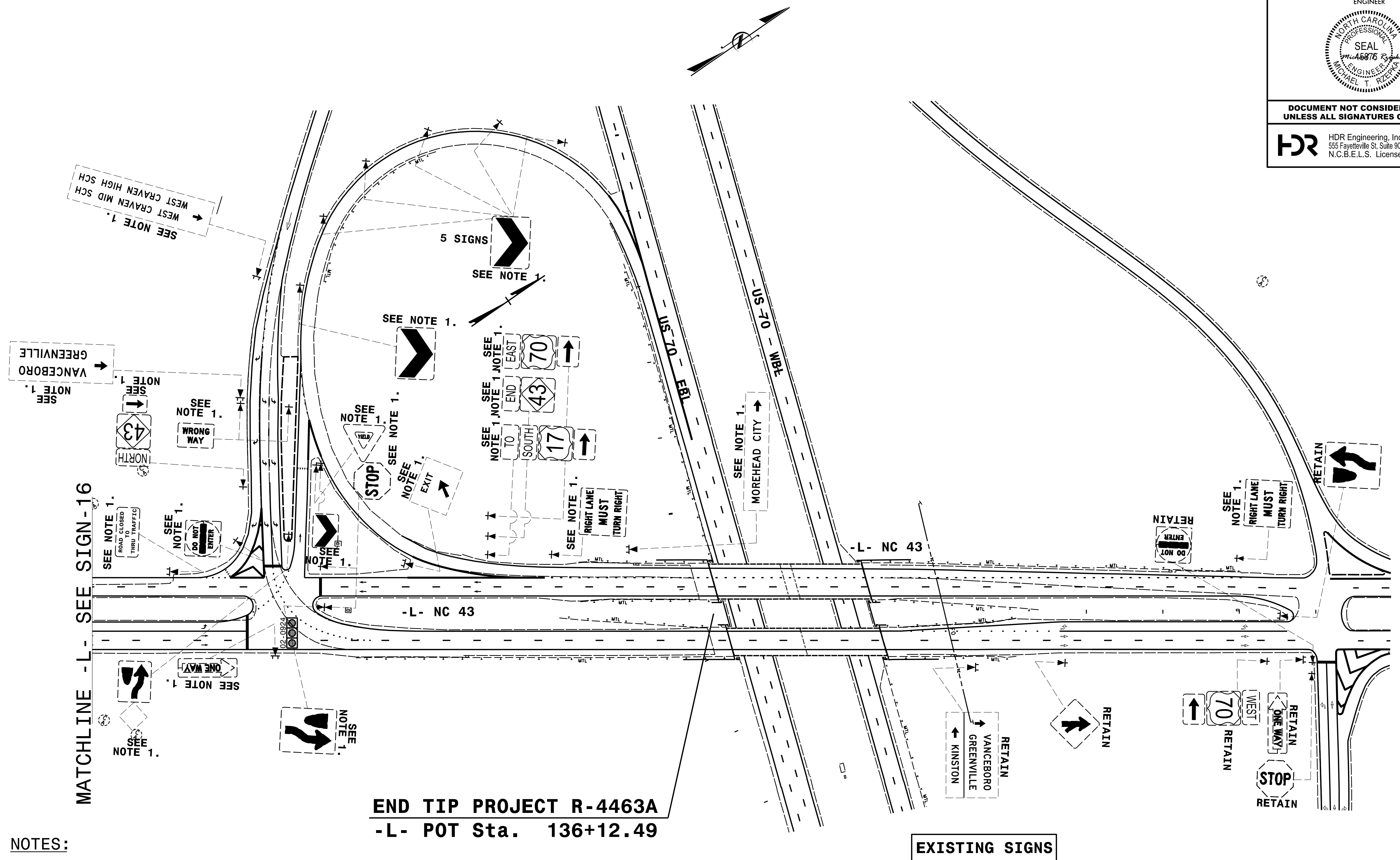
PROJECT REFERENCE NO.	SHEET NO.
R-4463A	SIGN-17
SIGNING ENGINEER	
	
5/22/2025	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
 HDR Engineering, Inc. of the Carolinas 555 Fayetteville St. Suite 900 Raleigh, N.C. 27601 N.C.B.E.L.S. License Number: F-0116	



NOTES:

- 1. DISPOSAL OF SIGN SYSTEM, WOOD
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- 3. DISPOSAL OF SIGN, D, E OR F

END TIP PROJECT R-4463A
-L- POT Sta. 136+12.49



- NOTES:
1. DISPOSAL OF SIGN SYSTEM, WOOD
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 3. DISPOSAL OF SIGN, D, E OR F