

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
RUTHERFORD COUNTY

LOCATION: US 221A (CHARLOTTE ROAD/MAIN STREET) IN
RUTHERFORDTON. CONSTRUCT COMPLETE STREET.

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - CONTRACT STANDARDS AND DEVELOPMENT UNIT - 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
901.50	ARROWS AND SHIELDS
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
902.10	FOUNDATIONS FOR GROUND MOUNTED SIGNS
903.10	GROUND MOUNTED SIGN SUPPORTS (SEE SHEET SIGN-01B FOR SHEET 3 OF 3)
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
910.40	SINGLE/TWO LANE ROUNDABOUT WITH PEDESTRIANS (SEE SHEET SIGN-01C FOR SHEET 2 OF 2)
910.50	SIGNING FOR SPEED REDUCTION ZONE

PAY ITEM NOTES

- SIGN ERECTION, TYPE D, E OR F
- SIGN ERECTION, TYPE A (GROUND MOUNTED)
- SIGN ERECTION, RELOCATE TYPE D (GROUND MOUNTED)
- SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED)
- SIGN ERECTION, RELOCATE TYPE F (GROUND MOUNTED)
- DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- DISPOSAL OF SIGN SYSTEM, WOOD
- DISPOSAL OF SUPPORT, U-CHANNEL
- DISPOSAL SIGN, D, E OR F
- RELOCATE EXISTING WAY FINDING ASSEMBLY
- REMOVE AND STOCKPILE, RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
- RECTANGULAR RAPID FLASHING BEACON ASSEMBLY
- STOCKPILE SIGN, D,E OR F

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.

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATIONS	3	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	2802	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	2449	LF.
4096000000	904	SIGN ERECTION, TYPE D	2	EA.
4102000000	904	SIGN ERECTION, TYPE E	147	EA.
4108000000	904	SIGN ERECTION, TYPE F	27	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	4	EA.
4116100000	904	SIGN ERECTION, RELOCATE TYPE D (GROUND MOUNTED)	2	EA.
4116100000	904	SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED)	6	EA.
4116100000	904	SIGN ERECTION, RELOCATE TYPE F (GROUND MOUNTED)	1	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	104	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	9	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	20	EA.
4237000000	907	STOCKPILE SIGN D,E OR F	5	EA.
4238000000	907	DISPOSAL OF SIGN, D, E OR F	32	EA.
4360000000	SP	RELOCATE EXISTING WAY FINDING ASSEMBLY	7	EA.
7980000000	SP	REMOVE AND STOCKPILE, RECTANGULAR RAPID FLASHING BEACON ASSEMBLY	2	EA.

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

Jose Martínez, PE SIGNING & DELINEATION REGIONAL ENGINEER
Walter Johnson SIGNING & DELINEATION PROJECT DESIGN ENGINEER

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-1A	RECTANGULAR RAPID FLASHING BEACON STANDARD DRAWING
SIGN-1B-1C	REVISED NCDOT ROADWAY STANDARD DRAWING
SIGN-2	SUPPORT INFORMATION
SIGN-3-3B	SIGN DESIGNS
SIGN-4-4B	TYPE E AND F SHEETS
SIGN-5-14	EXISTING SIGNING PLAN SHEETS
SIGN-15-24	PROPOSED SIGNING PLAN SHEETS

HL-0065

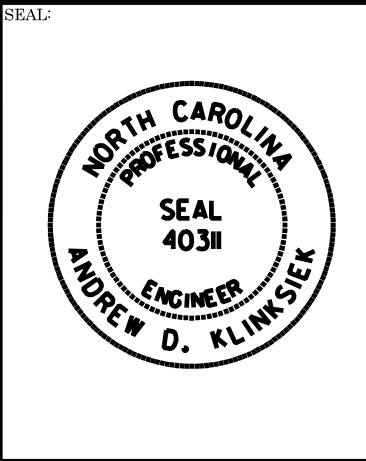
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NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

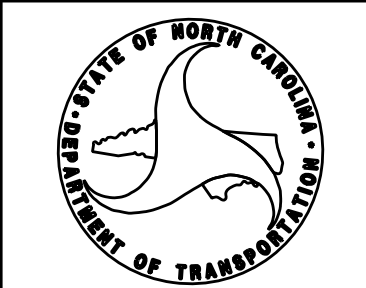
DocuSigned by:
Andrew D. Klink

APPROVED:
E3078FB4598E44B

DATE:
6/23/2026



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UNLESS ALL SIGNATURES COMPLETED

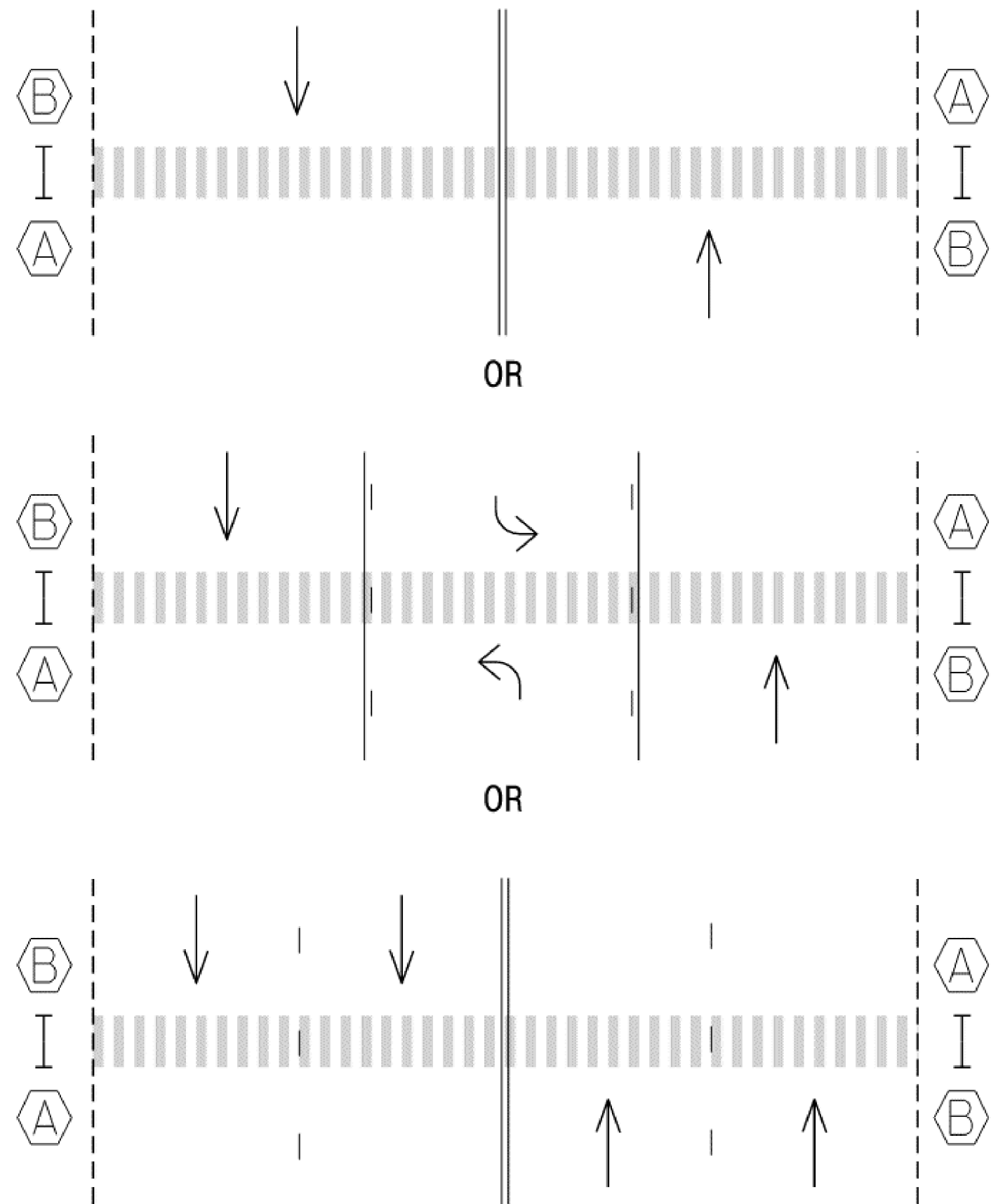


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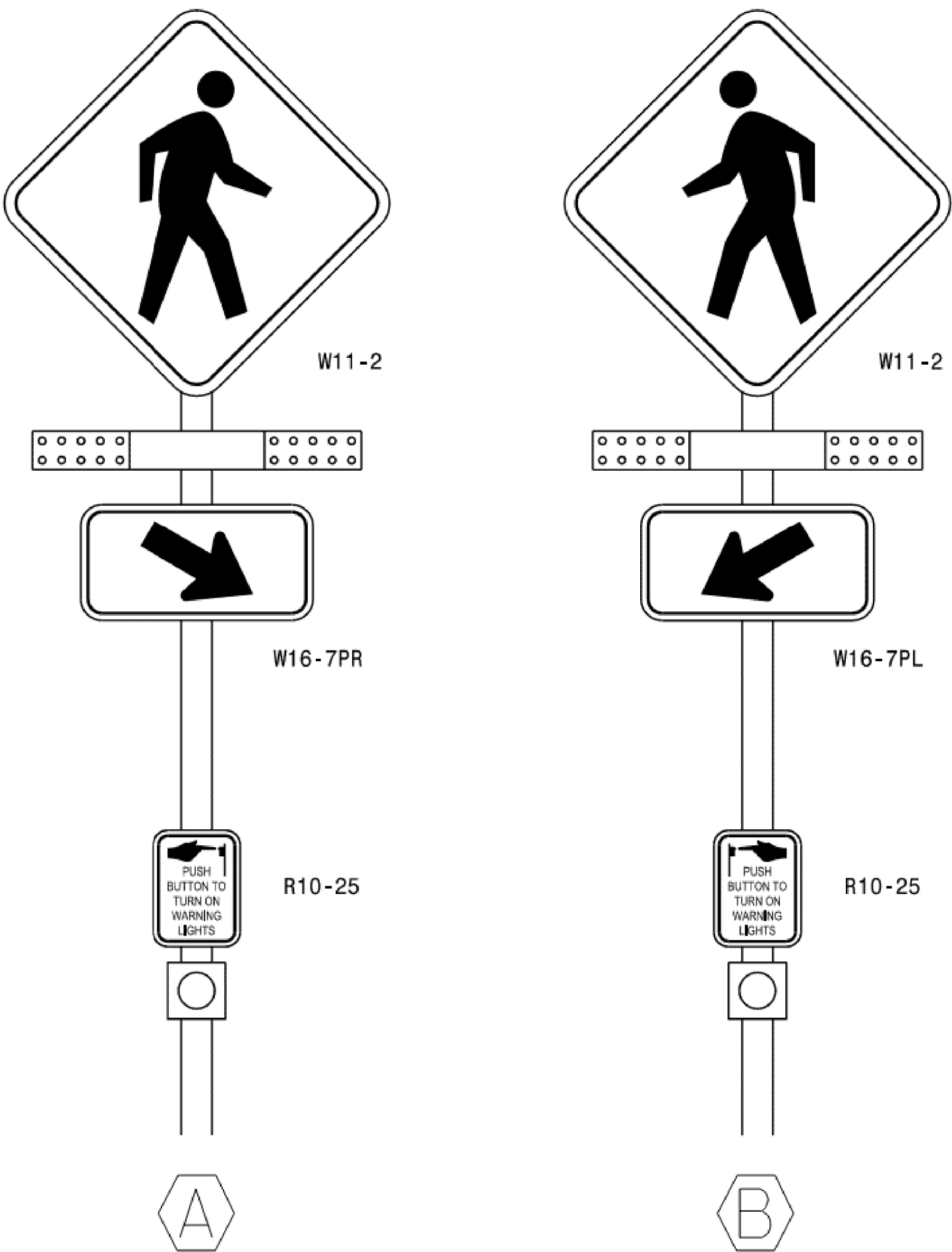
HNTB NORTH CAROLINA, P.C.
4000 CENTER AT NORTH HILLS ST.
SUITE 500
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO. C-1554

CONTRACT: C205219 T.I.P.: HL-0065

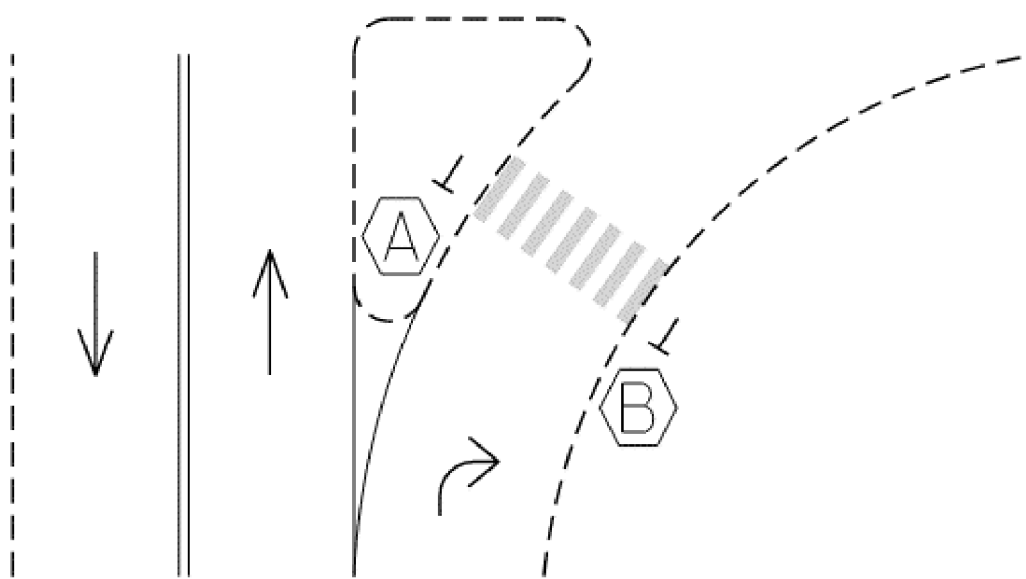
Two to Four Lanes, Undivided



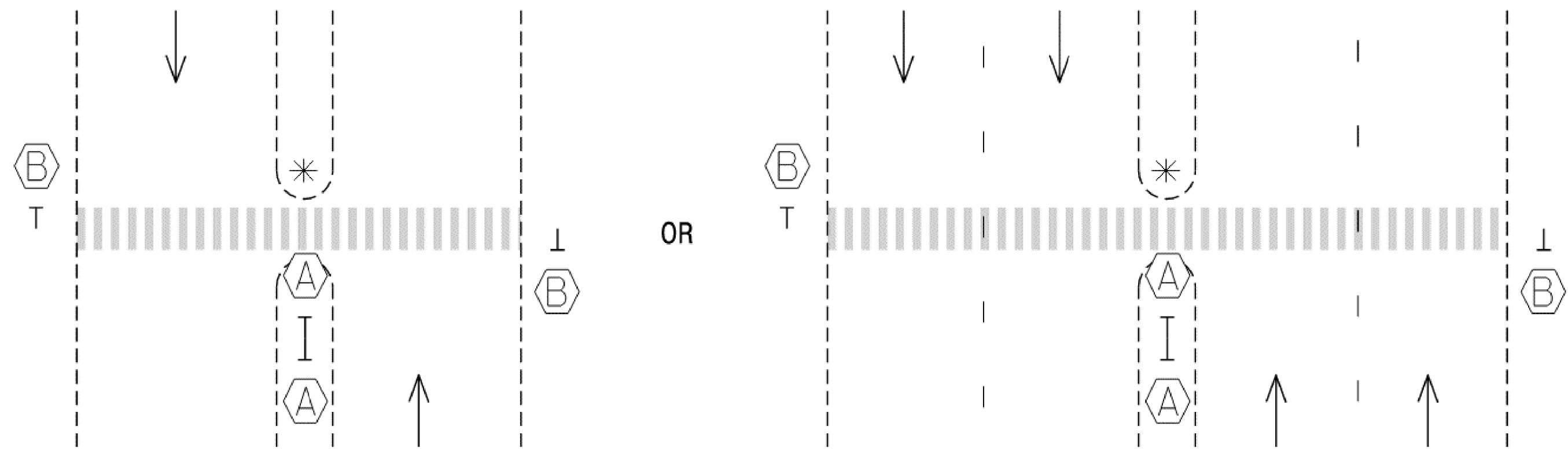
RRFB Sign Detail



Slip Lanes



Two or Multi-Lanes, Divided



* See Note 5

* See Note 5

Notes

- Design the RRFB in accordance with the 2023 MUTCD, 11th Edition, Chapter 4L: Rectangular Rapid Flashing Beacons. The Rectangular Rapid Flashing Beacon (RRFB) unit associated with a post-mounted sign and plaque should be located between the pedestrian crossing warning (W11-2) sign and the supplemental downward diagonal arrow plaque (W16-7p).
- If needed, a supplemental RRFB with an "AHEAD" (W16-9P) or distance (W16-2P) plaque may be installed on the approach in advance of the crosswalk. The additional RRFB shall be a supplemental to and not a replacement for the RRFB at the actual crosswalk.
- When practical, the RRFB and mounting post on the right side of the road shall be mounted on the approach side of the crosswalk closest to approaching traffic.
- When practical, the RRFB and mounting post on the left side of the road may be mounted on the back of the post for the opposing approach.
- A RRFB on the left side of the roadway or in the median may be individually mounted on the approach side of the crosswalk closest to approaching traffic, or, when practical, may be mounted back to back on the same post and mounted on either side of the crosswalk in the median.
- Locate push button sign (R10-25) and push button to face crosswalk, even if it is mounted on the back side of the sign.
- All RRFB units associated with a given crosswalk (including those with an advance crossing sign) shall, when actuated, simultaneously commence operation of their rapid-flashing indications and shall cease operation simultaneously.
- If an audible information device is used in conjunction with an RRFB, the audible message should be a speech message that says "Warning lights are flashing." The audible message should be spoken twice. The audible information device shall not use vibrotactile or percussive indications.
- For quantitative purposes, a single sided, post mounted RRFB is one assembly unit. A double sided RRFB mounted on the same post is counted as two (2) assemblies.
- For additional information, see Version 24 of the Transportation Systems Management and Operations (TSMO) Unit Project Special Provisions (PSP).

Timing of RRFBs

When actuated, the two yellow indications in each RRFB unit shall flash in a rapidly flashing sequence.

The RRFB shall flashing sequence shall provide enough time for pedestrians to cross from curb to curb. It is recommended to be a minimum of 7 seconds plus the crossing distance (D) divided by 3.5 feet/per sec., rounded up to the next whole second:

Flash Time (sec.) = 7 + D/3.5

Per Section 4L.03 of the 2023 MUTCD, RRFBs shall provide 75 flashing sequences per minute. During each 800 millisecond flashing sequence, the left and right RRFB indications shall operate using the following sequence:

- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 250 milliseconds.

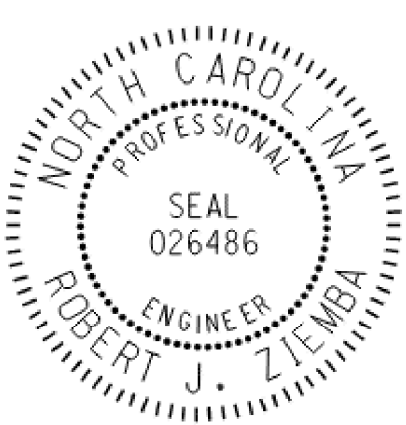
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SIGNATURES COMPLETED

Prepared in the Offices of:



750 N. Greenfield Parkway
Garner, NC 27529

SEAL



Discussed by: *Robert J. Ziemba*
SIGNATURE DATE 02/13/2026

Standard Drawing for
Rectangular Rapid
Flashing Beacon

NOTES:

1. DESIGN CONFORMS WITH THE SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS - AASHTO.
2. USE MATERIALS, FABRICATE AND ERECT SIGNS AND SUPPORTS THAT CONFORM TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
3. USE HIGH STRENGTH BOLTS, NUTS AND WASHERS THAT CONFORM TO ASTM A-325 AND THAT ARE GALVANIZED IN ACCORDANCE WITH ASTM F2329 OR B695 CLASS 55.
4. USE BACKING PLATES, SLIP BASE PLATES, FRICTION PLATES, AND HINGE PLATES THAT CONFORM TO ASTM A-36 AND THAT ARE GALVANIZED IN ACCORDANCE WITH ASTM A-123 PRIOR TO GALVANIZING, GRIND SMOOTH ANY METAL PROJECTION BEYOND THE PLATE FACE.
KEEPER PLATES SHALL BE MANUFACTURED FROM 28 GAUGE SHEET STEEL THAT CONFORMS TO ASTM A-36 AND IS GALVANIZED IN ACCORDANCE WITH ASTM A-123
5. ASSEMBLE HINGE CONNECTIONS IN THE SHOP. THE SHOP SHALL TIGHTEN BOLTS BY USE OF EITHER A CALIBRATED POWER WRENCH OR A MANUAL TORQUE WRENCH. TIGHTEN EACH HINGE CONNECTION BOLT TO 1/3 PAST SNUG.
6. BASE PLATES DETAILS ARE FOR INSTALLATIONS ON THE RIGHT SHOULDER AND IN GORE AREAS.
7. ASSEMBLE UPPER SUPPORT TO STUB AS SHOWN IN DETAIL. SLIP BASE PLATES SHALL BE FILLET WELDED ONTO SUPPORTS ALL AROUND THE STRUCTURAL SHAPE SO AS TO INSURE NO LOSS OF STRENGTH. ASSEMBLE IN EITHER SHOP OR FIELD. 28 GAUGE KEEPER PLATE IS PLACED BETWEEN SLIP BASE PLATES TO PREVENT BOLT SLIPPING. TIGHTEN BOLTS TO THE FOLLOWING PRESCRIBED TORQUE:

BOLT DIAMETER	TORQUE (LB. FT.)
1/2"	9
5/8"	22
3/4"	37
1"	48

COMPLETELY ASSEMBLE BREAKAWAY SUPPORTS PRIOR TO ERECTION. BREAKAWAY SUPPORT TO BE SET IN ONE PIECE. AFTER SUPPORT HAS BEEN ERECTED AND THE CONCRETE FOOTINGS HAS CURED AT LEAST 48 HOURS, CLEAN CONCRETE FROM BASE CONNECTION BOLTS THEN LOOSEN AND RE TIGHTEN EACH BOLT IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE.DO NOT OVER TIGHTEN. BURR ALL BOLT THREADS OF BASE CONNECTIONS TO PREVENT LOOSENING.

8. ELIMINATE HINGE CONNECTION FOR ALL SINGLE SUPPORT SIGNS.
9. DETAIL IS FOR ONE DIRECTION BREAKAWAY. WHEN PLANS REQUIRE A TWO DIRECTION BREAKAWAY, TWO FRICTION PLATES SHALL BE USED IN LIEU OF ONE FRICTION PLATE AND ONE HINGE PLATE.

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

ROADWAY DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 3 OF 3
903D1003



Signed by: *Matthew V. Springer* 5/21/2026
BC60FEE8B584403...

**CONTRACTS STANDARDS
AND DEVELOPMENT UNIT**
Office 919-707-8950 FAX 919-250-4119

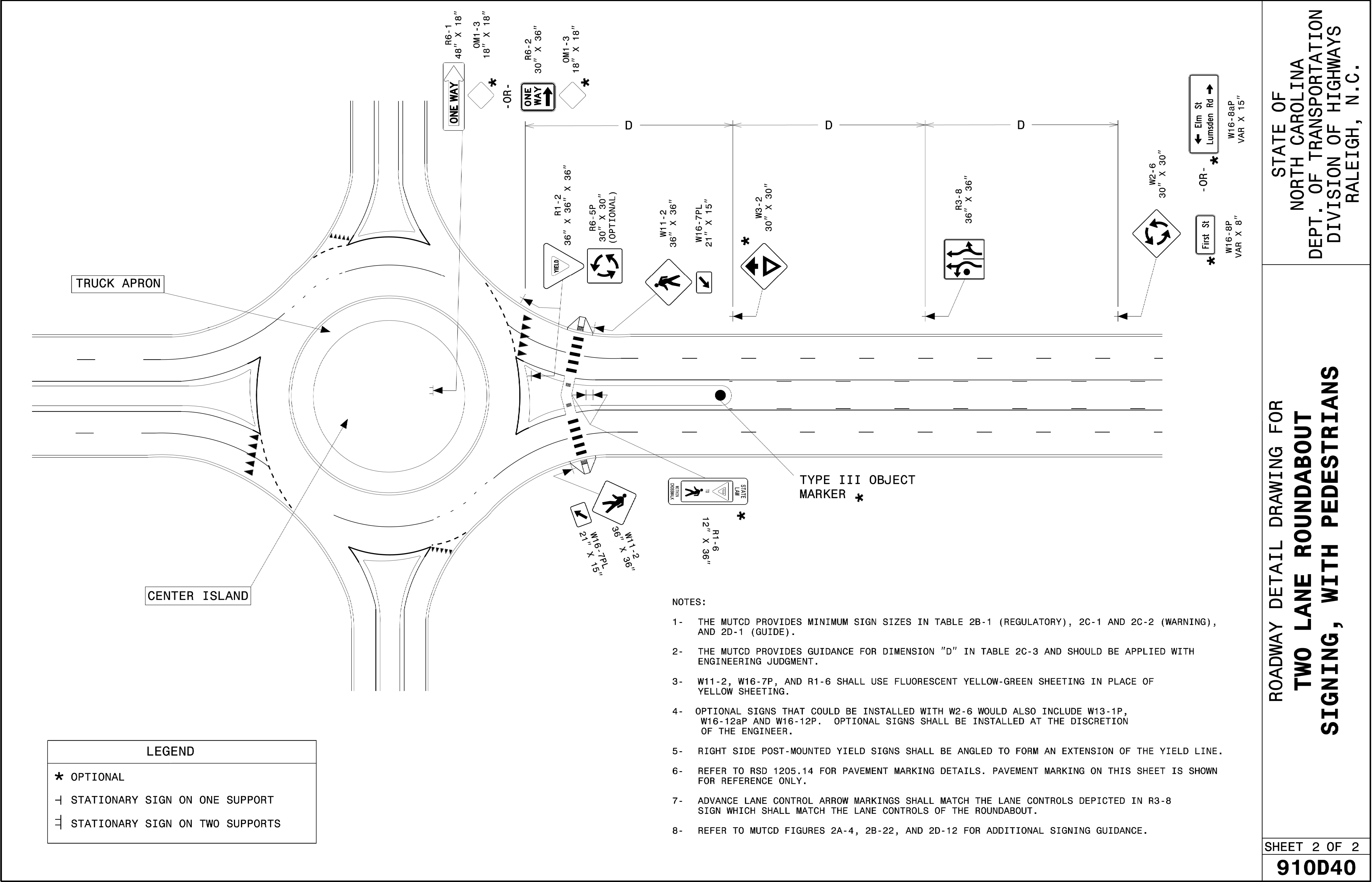
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ORIGINAL BY: **R.S. GALLO** DATE: **05-22-2025**

MODIFIED BY: DATE:

CHECKED BY: DATE:

FILE SPEC.:



Signed by: *Matthew V. Springer* 5/21/2026
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HL-0065

SIGN002

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

DocuSigned by:
Andrew D. Klimesek
APPROVED
E3D78FB4596E44B

DATE: 6/9/2026

SEAL:

NORTH CAROLINA
PROFESSIONAL
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403H
ENGINEER
ANDREW D. KLIMSEK

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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

PREPARED BY

HNTB

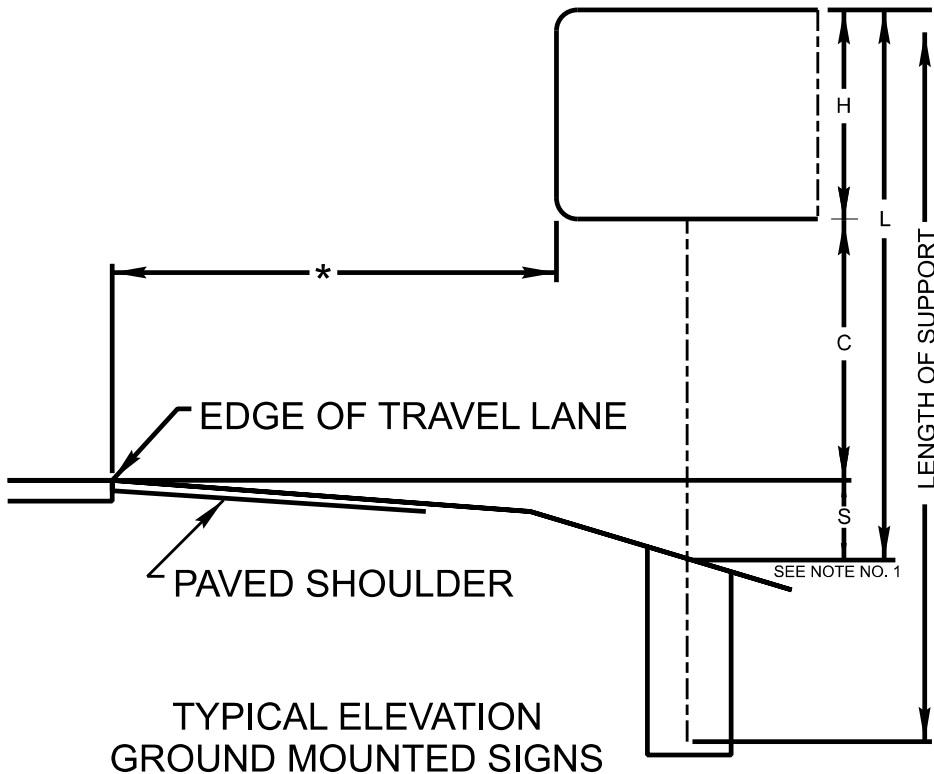
WHITE NORTH CAROLINA, P.C.
4000 CENTER AT NORTH HILLS ST.
SUITE 500
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO: C1554

Version: 3.2 Posted: 7/5/2023

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 "H"	MTG HT "C"	EMBED- MENT												DIAMETER (ft.)	DEPTH (ft.)	REINFORCED (c.y.)	PLAIN (c.y.)					
		w	x	h																																
101	A	126	x	120	-L2- STA. 55+00	2	W6x12	BA	N/A	N/A	N/A	18.00	7.5 NON-STD. SPACING	10.00	9.19	3.5	-1.89	17.30	20.80	0.00	0.00	0.00	-2.19	17.00	20.50	573.60	0	1.5	4	0.52	0.00	_____				
102	A	192	x	108	-Y8- STA. 13+50 LT	2	W6x16	BA	N/A	N/A	N/A	16.00	9.38	9.00	7.00	4.5	1.22	17.22	21.72	0.00	0.00	0.00	5.49	21.49	25.99	857.36	0	1.5	5	0.65	0.00	_____				
103	A	126	x	120	-L3- STA. 14+00 LT	2	W6x12	BA	N/A	N/A	N/A	11.50	7.5 NON-STD. SPACING	10.00	8.24	3.5	-0.56	17.68	21.18	0.00	0.00	0.00	-1.24	17.00	20.50	578.16	0	1.5	4	0.52	0.00	_____				
104	A	192	x	108	-Y7- STA. 13+00	2	W6x16	BA	N/A	N/A	N/A	16.00	9.38	9.00	7.00	4.0	1.23	17.23	21.23	0.00	0.00	0.00	2.40	18.40	22.40	792.08	0	1.5	4.5	0.59	0.00	_____				
																											TOTAL		TOTAL		TOTAL		TOTAL			
																											2801.20		0.00		2.29		0.00			
																											USE:		2802.00		0.00		3.00		0.00	

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: 101

TYPE: A

QUANTITY: 1

SIGN WIDTH: 10'-6"

HEIGHT: 10'-0"

TOTAL AREA: 105.0 Sq.Ft.

BORDER TYPE: FLUSH

RECESS: 0"

WIDTH: 1"

RADII: 6"

NO. Z BARS: 3

LENGTH: 118.0

BACKG COLOR: Green

COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	28.3	73	18	18
M1_4	63.6	73	18	18
M1_4	8.5	21.8	18	18
M1_4	89.5	21.8	18	18
SHS D1-5 Arrow	32.5	7.9	51	49

MAT'L: 0.125" ALUMINUM

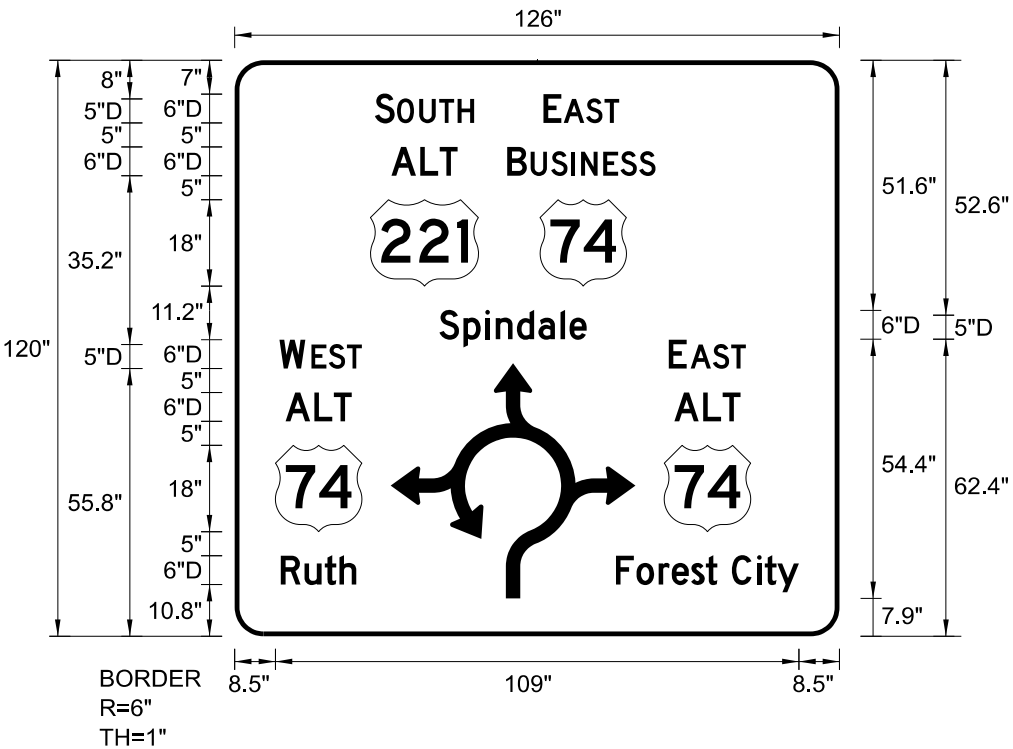
DESIGN BY: TRT

CHECKED BY: JAW

PROJECT ID: HL-0065

DIV: 13

DATE: March 2026



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter																										Series/Size Text Length
	S	O	U	T	H																					D 2000
29.2	4.1	0.5	4.7	4.2	3.9	3.4	76.2																			20.6
	E	A	S	T																						D 2000
64.3	3.7	0.5	4.7	3.8	3.1	45.9																				15.8
	A	L	T																							D 2000
32.6	6	4.1	3.7	79.6																						13.8
	B	U	S	I	N	E	S	S																		D 2000
56.8	4.1	0.8	4.3	4.3	2	4.6	3.6	3.9	3.4	38.3																30.9
	S	p	i	n	d	a	i	e																		D 2000
42.6	5	4.6	2.2	4.4	4.5	4.6	1.9	3.5	52.7																	30.7
	W	E	S	T																						D 2000
9.3	5.3	1.3	3.6	3.8	3.1	99.5																				17.1
	E	A	S	T																						D 2000
90.4	3.7	0.8	4.7	3.8	3.1	19.5																				16.1
	A	L	T																							D 2000
10.6	6	4.1	3.7	101.6																						13.8
	A	L	T																							D 2000
91.6	6	4.1	3.7	20.6																						13.8
	R	u	t	h																						D 2000
9.6	4.9	4.2	3.1	3.5	100.7																					15.7
	F	o	r	e	s	t		C	i	t	y															D 2000
79.4	4.3	4.6	2.8	4	3.1	2.4	3	5.3	1.6	2.6	4.5	8.5													38.1	

SIGN NUMBER: 102

TYPE: A

QUANTITY: 1

SIGN WIDTH: 16'-0"

HEIGHT: 9'-0"

TOTAL AREA: 144.0 Sq.Ft.

BORDER TYPE: FLUSH

RECESS: 0"

WIDTH: 1"

RADII: 6"

NO. Z BARS: 3

LENGTH: 184.0

BACKG COLOR: Green

COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	126.9	97	18	18
M1_4	62.3	45.5	22.5	18
M1_4	97.6	45.5	18	18
M1_4	178.6	45.5	22.5	18
M1_4	213.9	45.5	18	18
SHS D1-5 Arrow	121.6	31	51	49

MAT'L: 0.125" ALUMINUM

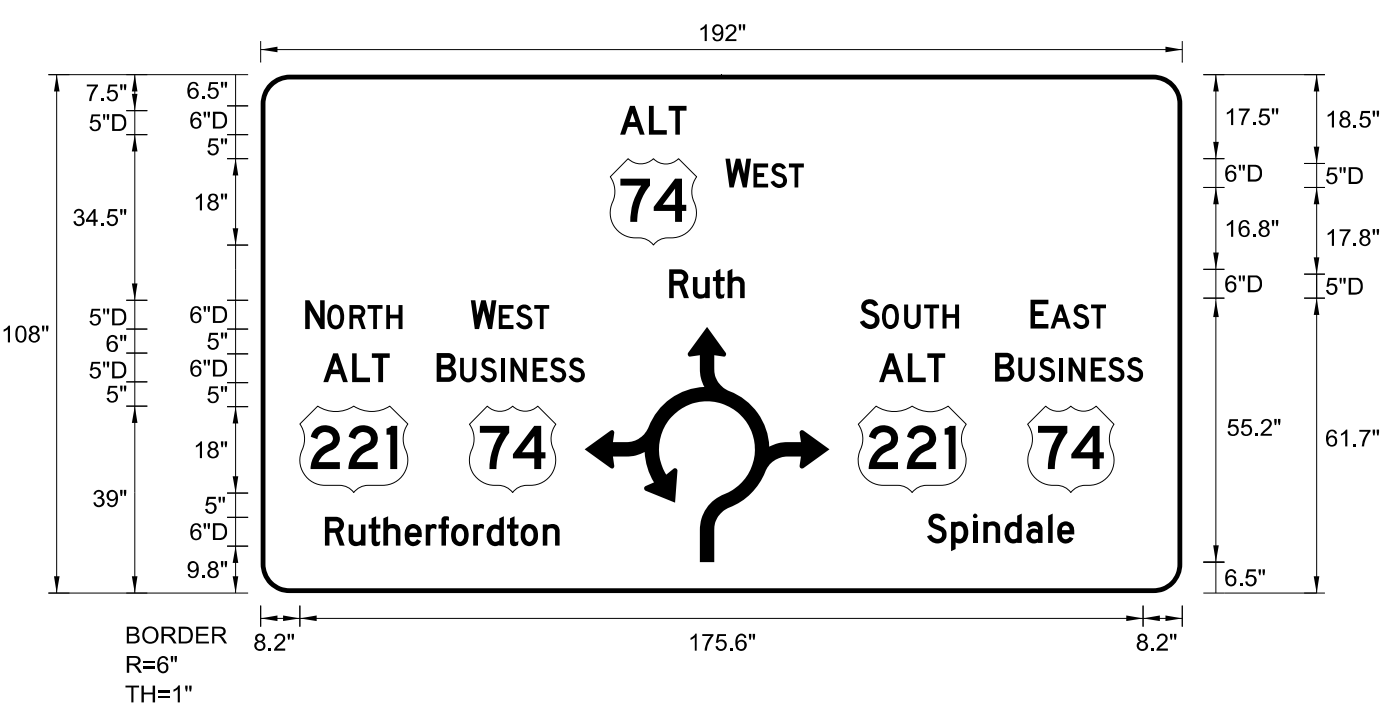
DESIGN BY: TRT

CHECKED BY: JAW

PROJECT ID: HL-0065

DIV: 13

DATE: March 2026



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter																										Series/Size Text Length
	A	L	T																							D 2000
129	6	4.1	3.7	144.3																						13.8
	W		E	S	T																					D 2000
150.9	5.3	0.5	3.6	3.8	3.1	119.8																				16.3
	R	u	t	h																						D 2000
139.2	4.9	4.2	3.1	3.5	132.2																					15.7
	N		O	R	T	H																				D 2000
63.4	4.1	0.5	4.7	3.8	3.9	3.4	203.5																			20.3
	W		E	S	T																					D 2000
97.8	5.3	0.5	3.6	3.8	3.1	172.9																				16.3
	S		O	U	T	H																				D 2000
179	4.1	0.5	4.7	4.2	3.9	3.4	87.5																			20.6
	E		A	S	T																					D 2000
214.5	3.7	0.4	4.7	3.8	3.1	56.9																				15.7
	A	L	T																							D 2000
67.2	6	4.1	3.7	206.1																						13.8
	B		U	S	I	N	E	S	S																	D 2000
90.8	4.1	0.8	4.3	4.3	2	4.6	3.6	3.9	3.4	165.5																30.9
	A	L	T																							D 2000
182.9	6	4.1	3.7	90.4																						13.8
	B		U	S	I	N	E	S	S																	D 2000
207.1	4.1	0.8	4.3	4.3	2	4.6	3.6	3.9	3.4	49.1															30.9	
	R	u	t	h	e	r	f	o	r	d	t	o	n													D 2000
67.5	4.9	4.2	3.1	4.4	4.4	2.6	2.6	4.6	2.8	4.3	2.8	4.6	3.5	170.7												48.9
	S	p	i	n	d	a	i	e																		D 2000
192.9	5	4.6	2.2	4.4	4.5	4.6	1.9	3.5	63.5																	30.7

HL-0065

SIGN 003

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

DocuSigned by:
Andrew D. Klinskyk

APPROVED: E3078FB4596E44B

DATE: 6/9/2026

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NORTH CAROLINA
PROFESSIONAL
SEAL
403H
ENGINEER
ANDREW D. KLINSKYK

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DEPARTMENT OF TRANSPORTATION

PREPARED BY:
HNTB

WHITE NORTH CAROLINA, P.C.
4000 CENTER AT NORTH HILLS ST.
SUITE 500
RALEIGH NORTH CAROLINA 27609
NC LICENSE NO: C-1554

SIGN NUMBER: 103

TYPE: A

QUANTITY: 1

SIGN WIDTH: 10'-6"

HEIGHT: 10'-0"

TOTAL AREA: 105.0 Sq.Ft.

BORDER TYPE: FLUSH

RECESS: 0"

WIDTH: 1"

RADII: 6"

NO. Z BARS: 3

LENGTH: 118.0

BACKG COLOR: Green

COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	86.8	97.5	22.5	18
M1_4	122.2	97.5	18	18
M1_4	67	46.3	18	18
M1_4	148	46.3	18	18
SHS D1-5 Arrow	91	32.4	51	49

MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT

CHECKED BY: JAW

PROJECT ID: HL-0065

DIV: 13

DATE: March 2026

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter																				Series/Size Text Length	
		N		O	R	T	H													D 2000	
88.1	4.1	0.5	4.7	3.8	3.9	3.4	101.3													20.3	
		W		E	S	T														D 2000	
122.6	5.3	0.5	3.6	3.8	3.1	70.7														16.3	
		A	L	T																D 2000	
91.2	6	4.1	3.7	104.7																13.8	
		B		U	S	I	N	E	S	S										D 2000	
115.3	4.1	0.8	4.3	4.3	2	4.6	3.6	3.9	3.4	63.4										30.9	
		R	u	t	h	e	r	f	o	r	d	t	o	n							D 2000
92.1	4.9	4.2	3.1	4.4	4.4	2.6	2.6	4.6	2.8	4.3	2.8	4.6	3.5	68.7						48.9	
		E		A	S	T														D 2000	
68	3.7	0.8	4.7	3.8	3.1	125.6														16.1	
		W		E	S	T														D 2000	
148.4	5.3	1.3	3.6	3.8	3.1	44.1														17.1	
		A	L	T																D 2000	
69.1	6	4.1	3.7	126.7																13.8	
		A	L	T																D 2000	
150.1	6	4.1	3.7	45.7																13.8	
		F	o	r	e	s	t			C	i	t	y							D 2000	
57	4.3	4.6	2.8	4	3.1	2.4	3	5.3	1.6	2.6	4.5	114.6								38.1	
		R	u	t	h															D 2000	
149.2	4.9	4.2	3.1	3.5	44.8															15.7	

SIGN NUMBER: 104

TYPE: A

QUANTITY: 1

SIGN WIDTH: 16'-0"

HEIGHT: 9'-0"

TOTAL AREA: 144.0 Sq.Ft.

BORDER TYPE: FLUSH

RECESS: 0"

WIDTH: 1"

RADII: 6"

NO. Z BARS: 3

LENGTH: 184.0

BACKG COLOR: Green

COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	126.9	97	18	18
M1_4	62.3	45.4	22.5	18
M1_4	97.6	45.5	18	18
M1_4	178.6	45.5	22.5	18
M1_4	213.9	45.5	18	18
SHS D1-5 Arrow	121.6	31	51	49
	0	0	287.1	144.8

MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT

CHECKED BY: JAW

PROJECT ID: HL-0065

DIV: 13

DATE: March 2026

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter																				Series/Size Text Length	
		A		L	T															D 2000	
129.7	5.1	0.8	3.4	3.1	145															12.4	
		E		A	S	T														D 2000	
150.9	3.7	0.5	4.7	3.8	3.1	120.4														15.8	
		F	o	r	e	s	t			C	i	t	y							D 2000	
128	4.3	4.6	2.8	4	3.1	2.4	3	5.3	1.6	2.6	4.5	121								38.1	
		S		O	U	T	H													D 2000	
62.6	4.1	0.5	4.7	4.2	3.9	3.4	203.8													20.6	
		E		A	S	T														D 2000	
98.2	3.7	0.4	4.7	3.8	3.1	173.2														15.7	
		N		O	R	T	H													D 2000	
179.1	4.1	0.5	4.7	3.8	3.9	3.4	87.7													20.3	
		W		E	S	T														D 2000	
214.2	5.3	0.5	3.6	3.8	3.1	56.6														16.3	
		A	L	T																D 2000	
66.6	6	4.1	3.7	206.7																13.8	
		B		U	S	I	N	E	S	S										D 2000	
90.8	4.1	0.8	4.3	4.3	2	4.6	3.6	3.9	3.4	165.5										30.9	
		A	L	T																D 2000	
182.9	6	4.1	3.7	90.4																13.8	
		B		U	S	I	N	E	S	S										D 2000	
207.1	4.1	0.8	4.3	4.3	2	4.6	3.6	3.9	3.4	49.1										30.9	
		S	p	i	n	d	a	i	e											D 2000	
76.6	5	4.6	2.2	4.4	4.5	4.6	1.9	3.5	79.8											30.7	
		R	u	t	h	e	r	f	o	r	d	t	o	n							D 2000
183.8	4.9	4.2	3.1	4.4	4.4	2.6	2.6	4.6	2.8	4.3	2.8	4.6	3.5	54.4						48.9	

HL-0065

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DEPARTMENT OF TRANSPORTATION

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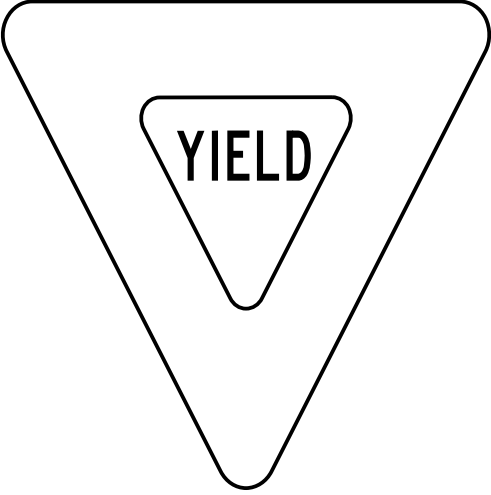
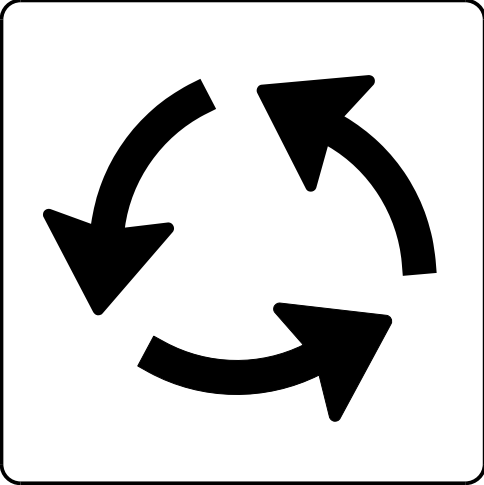
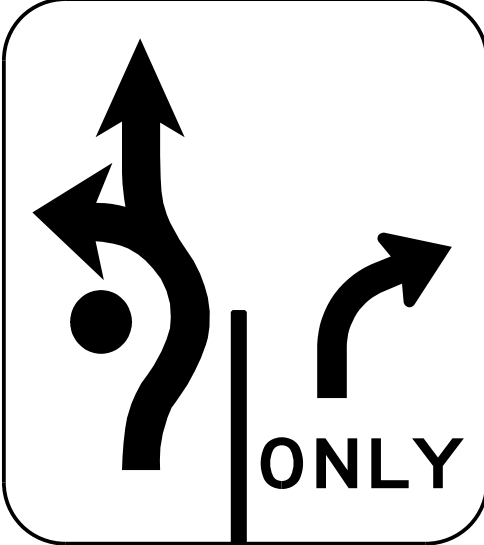
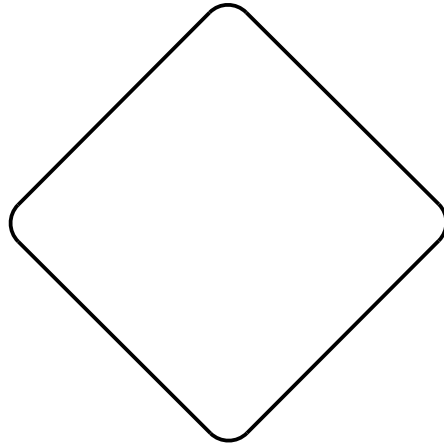
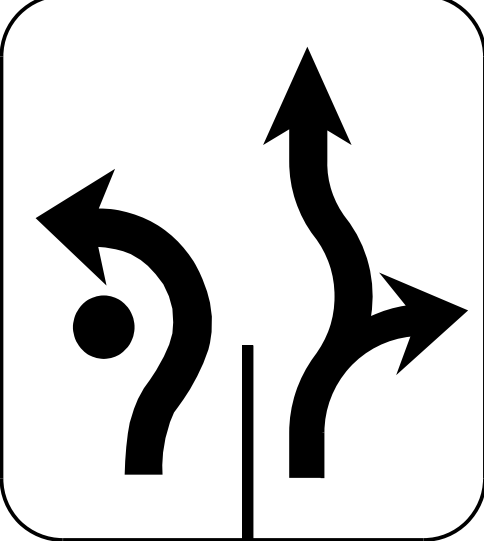
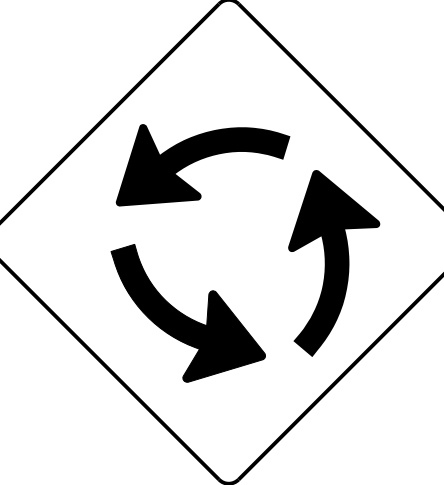
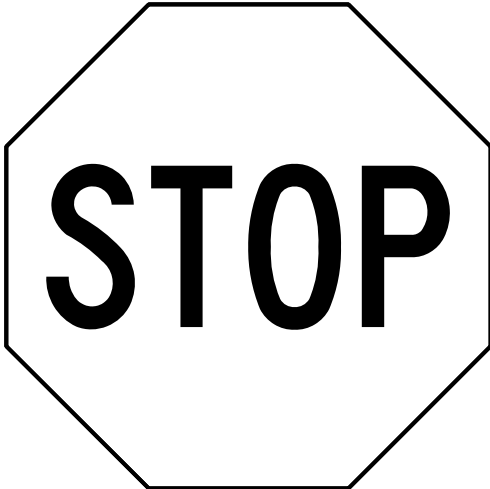
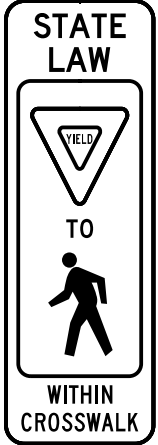
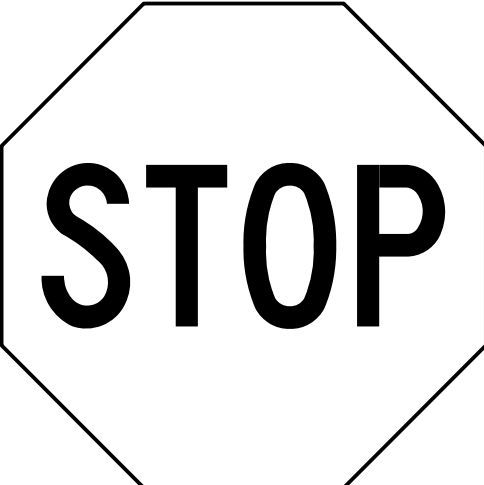
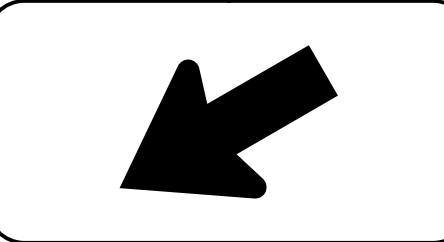
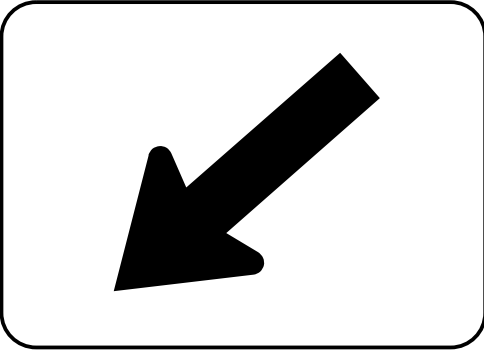
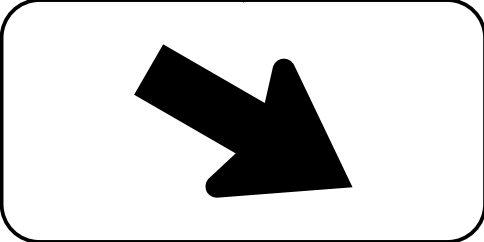
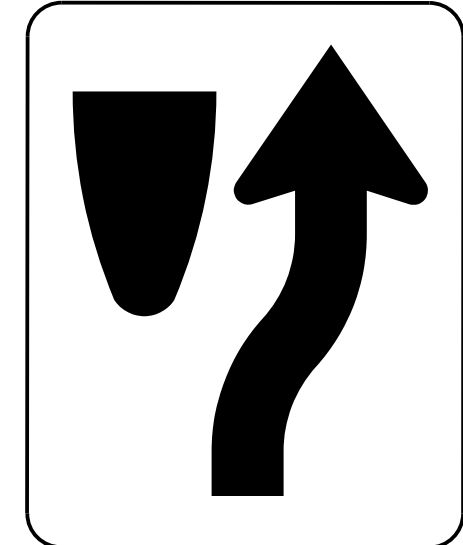
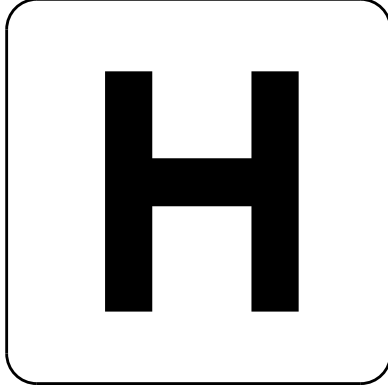
APPROVED: E3078FB4596E44B

DATE: 6/9/2026

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SUITE 500
RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO. C-1554

401  36" X 36" R1-2 ONE U-CHANNEL SUPPORT PER SIGN	406  24" X 30" R2-1 ONE U-CHANNEL SUPPORT PER SIGN	411  30" X 30" R6-5P MOUNTED BELOW SIGN 401 IN 10 INSTALLATIONS	416  48" X 18" R6-1 (R) TWO U-CHANNEL SUPPORTS PER SIGN	421  36" X 12" R6-1 (L) MOUNTED ABOVE SIGN 408 IN 1 INSTALLATION	426  36" X 36" R3-8zg ONE U-CHANNEL SUPPORT PER SIGN	431  18" X 18" OM1-3 MOUNTED BELOW SIGN 430 IN 2 INSTALLATIONS
402  36" X 36" R5-1 ONE U-CHANNEL SUPPORT PER SIGN	407  24" X 30" R2-1 ONE U-CHANNEL SUPPORT PER SIGN	412  36" X 36" R3-8 ONE U-CHANNEL SUPPORT PER SIGN	417  36" X 36" R3-7 (L) ONE U-CHANNEL SUPPORT PER SIGN	422  36" X 36" R3-7 (R) ONE U-CHANNEL SUPPORT PER SIGN	427  36" X 24" R5-1a ONE U-CHANNEL SUPPORT PER SIGN	432  30" X 30" W2-6 ONE U-CHANNEL SUPPORT PER SIGN
403  36" X 36" W3-5 ONE U-CHANNEL SUPPORT PER SIGN	408  36" X 36" R1-1 ONE U-CHANNEL SUPPORT PER SIGN MOUNTED BELOW SIGN 429 IN 3 INSTALLATIONS	413  12" X 36" R1-6 ONE U-CHANNEL SUPPORT PER SIGN MOUNTED BACK TO BACK BACKGROUND COLOR SHALL BE FLUORESCENT YELLOW-GREEN	418  36" X 36" W11-15 ONE U-CHANNEL SUPPORT PER SIGN BACKGROUND COLOR SHALL BE FLUORESCENT YELLOW-GREEN	423  12" X 18" R7-8 ONE U-CHANNEL SUPPORT PER SIGN	428  18" X 6" R1-3P MOUNTED BELOW SIGN 408 IN 3 INSTALLATIONS	433  24" X 12" W16-9P MOUNTED BELOW SIGN 418 IN 2 INSTALLATIONS BACKGROUND COLOR SHALL BE FLUORESCENT YELLOW-GREEN
404  24" X 18" R3-17 ONE U-CHANNEL SUPPORT PER SIGN	409  36" X 36" W3-5 ONE U-CHANNEL SUPPORT PER SIGN	414  36" X 36" W11-2 ONE U-CHANNEL SUPPORT PER SIGN BACKGROUND COLOR SHALL BE FLUORESCENT YELLOW-GREEN	419  18" X 18" R1-1 ONE U-CHANNEL SUPPORT PER SIGN	424  12" X 9" R7-8D MOUNTED BELOW SIGN 423 IN 4 INSTALLATIONS	429  36" X 12" R6-1 (R) MOUNTED ABOVE SIGN 408 IN 3 INSTALLATIONS	434  12" X 9" W16-7P (L) MOUNTED BELOW SIGN 418 IN 5 INSTALLATIONS BACKGROUND COLOR SHALL BE FLUORESCENT YELLOW-GREEN
405  24" X 9" R3-17aP MOUNTED BELOW SIGN 404 IN 1 INSTALLATION	410  24" X 30" R2-1 ONE U-CHANNEL SUPPORT PER SIGN	415  21" X 15" W16-7P (L) MOUNTED BELOW SIGN 414 IN 8 INSTALLATIONS BACKGROUND COLOR SHALL BE FLUORESCENT YELLOW-GREEN	420  12" X 9" W16-7P (R) MOUNTED BELOW SIGN 418 IN 5 INSTALLATIONS BACKGROUND COLOR SHALL BE FLUORESCENT YELLOW-GREEN	425  36" X 36" R1-5d (R) ONE U-CHANNEL SUPPORT PER SIGN	430  24" X 30" R4-7 ONE U-CHANNEL SUPPORT PER SIGN	435  24" X 24" D9-2 MOUNTED BELOW SIGN 301 IN 1 INSTALLATION

HL-0065

SIGN004

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

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Andrew D. Klinsky

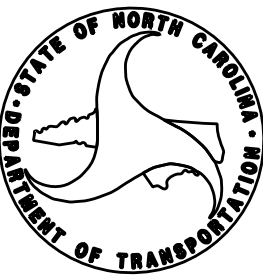
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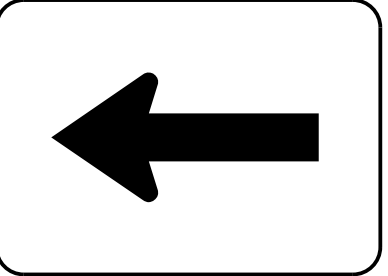
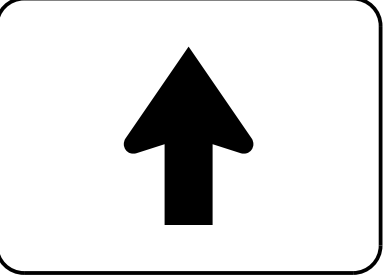


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RALEIGH, NORTH CAROLINA 27609
NC LICENSE NO. C-1554

436 QUANTITY REQ'D 1  21" X 15" M6-1P BKGD COLOR: BLUE LEGEND COLOR: WHITE MOUNTED BELOW SIGN 435 IN 1 INSTALLATION						
437 QUANTITY REQ'D 1  24" X 24" I3-5 MOUNTED BELOW SIGN 301 IN 1 INSTALLATION						
438 QUANTITY REQ'D 1  21" X 15" M6-3P BKGD COLOR: GREEN LEGEND COLOR: WHITE MOUNTED BELOW SIGN 437 IN 1 INSTALLATION						

HL-0065

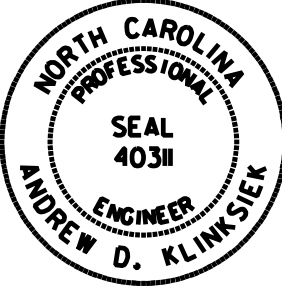
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DEPARTMENT OF TRANSPORTATION

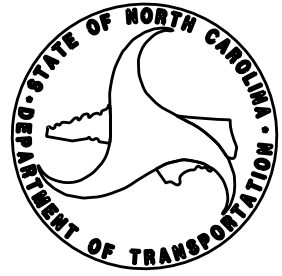
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RALEIGH, NORTH CAROLINA 27609
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501 WEST 108 1 - 24" X 12" 1 - 24" X 24" 1 - 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY	506 SOUTH 221 WEST BUSINESS 74 1- 24" X 12" 1- 30" X 24" 1- 24" X 12" 1- 24" X 12" 1- 24" X 24" ONE U-CHANNEL SUPPORT PER ASSEMBLY	511 WEST 108 1- 24" X 12" 1- 24" X 24" 1 - 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY	516 EAST ALT 74 SOUTH TRUCK 221 2 - 24" X 12" 2 - 24" X 12" 1 - 24" X 24" 1 - 30" X 24" ONE U-CHANNEL SUPPORT PER ASSEMBLY	523 JCT 221 1 - 21" X 15" 1 - 30" X 24" ONE U-CHANNEL SUPPORT PER ASSEMBLY	528 NORTH TRUCK 221 1 - 24" X 12" 1 - 24" X 12" 1 - 30" X 24" 1 - 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY	
502 TO TO 221 74 1 - 24" X 12" 2 - 24" X 12" 1 - 30" X 24" 1 - 24" X 24" 2 - 21" X 15" TWO U-CHANNEL SUPPORTS PER ASSEMBLY	507 NOT USED	512 WEST BUSINESS 74 EAST BUSINESS 74 1 - 24" X 12" 1 - 24" X 12" 1 - 24" X 24" 1 - 21" X 15" 1 - 24" X 12" 1 - 24" X 12" 1 - 24" X 24" 1 - 21" X 15" TWO U-CHANNEL SUPPORTS PER ASSEMBLY	517 521 JCT ALT 221 JCT BUSINESS 74 2 - 21" X 15" 2 - 24" X 12" 1 - 30" X 24" 1 - 24" X 24" TWO U-CHANNEL SUPPORTS PER ASSEMBLY	524 TO 74 1 - 24" X 12" 1- 24" X 24" 1- 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY		
503 JCT JCT BUSINESS 221 74 1 - 21" X 15" 1 - 21" X 15" 1 - 24" X 12" 1 - 30" X 24" 1 - 24" X 24" TWO U-CHANNEL SUPPORTS PER ASSEMBLY	508 NORTH 221 EAST BUSINESS 74 1 - 24" X 12" 1 - 30" X 24" 1 - 21" X 15" 1 - 24" X 12" 1 - 24" X 12" 1- 24" X 24" 1- 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY	513 NORTH 221 SOUTH 221 2 - 24" X 12" 2 - 30" X 24" 2 - 21" X 15" TWO U-CHANNEL SUPPORTS PER ASSEMBLY	518 SOUTH ALT 221 EAST BUSINESS 74 2 - 24" X 12" 2 - 24" X 12" 1 - 30" X 24" 1 - 24" X 24" TWO U-CHANNEL SUPPORTS PER ASSEMBLY	525 TO 74 1 - 24" X 12" 1 - 24" X 24" 1 - 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY		
504 EAST BUSINESS 74 WEST BUSINESS 74 1 - 24" X 12" 1 - 24" X 12" 1 - 24" X 24" 1 - 21" X 15" 1 - 24" X 12" 1 - 24" X 12" 1 - 24" X 24" 1 - 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY	509 WEST 108 1 - 24" X 12" 1 - 24" X 24" 1- 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY	514 WEST 108 1 - 24" X 12" 1 - 24" X 24" 1 - 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY	520 WEST ALT 74 1 - 24" X 12" 1 - 24" X 12" 1 - 24" X 24" ONE U-CHANNEL SUPPORT PER ASSEMBLY	526 WEST BUSINESS 74 SOUTH 221 1 - 24" X 12" 1 - 24" X 12" 1 - 24" X 24" 1 - 21" X 15" 1 - 24" X 12" 1 - 30" X 24" 1 - 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY		
505 NORTH 221 SOUTH 221 1 - 24" X 12" 1 - 30" X 24" 1 - 21" X 15" 1 - 24" X 12" 1 - 30" X 24" 1 - 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY	510 NORTH 221 EAST BUSINESS 74 1 - 24" X 12" 2 - 24" X 12" 1 - 30" X 24" 1 - 24" X 24" TWO U-CHANNEL SUPPORTS PER ASSEMBLY	515 519 JCT ALT 74 1 - 21" X 15" 1 - 24" X 12" 1 - 24" X 24" ONE U-CHANNEL SUPPORT PER ASSEMBLY	522 NORTH ALT 221 WEST BUSINESS 74 2 - 24" X 12" 2 - 24" X 12" 1 - 30" X 24" 1 - 24" X 24" TWO U-CHANNEL SUPPORTS PER ASSEMBLY	527 WEST 108 1 - 24" X 12" 1 - 24" X 24" 1 - 21" X 15" ONE U-CHANNEL SUPPORT PER ASSEMBLY		

HL-0065

SIGN0048

NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

DocuSigned by

APPROVEDAndrew D. KlumsekE3078FB4596E44B.

DATE6/9/2026

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ENGINEER

ANDREW D. KLUMSEK

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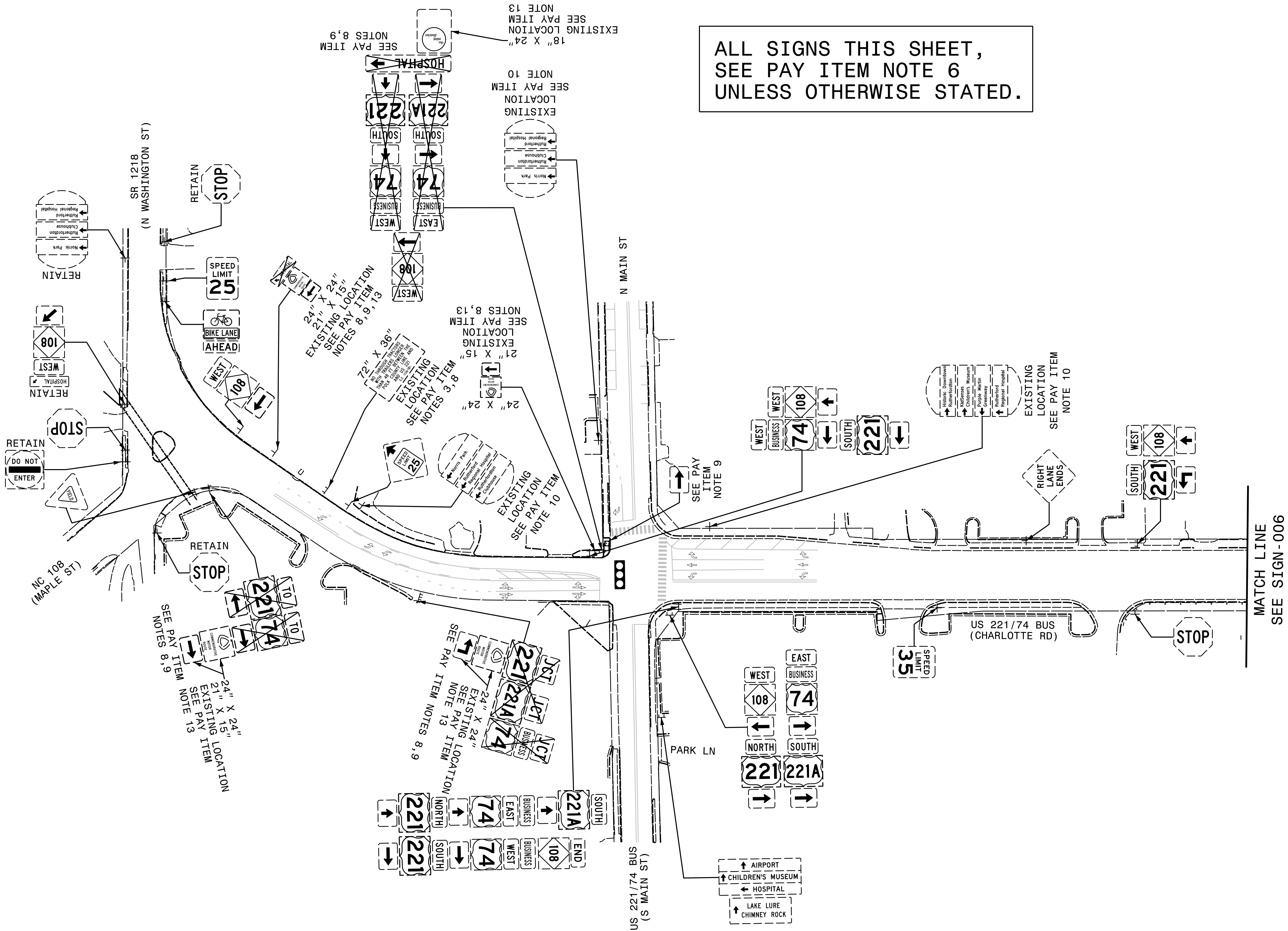
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4000 CENTER AT FORTH HILLS ST.

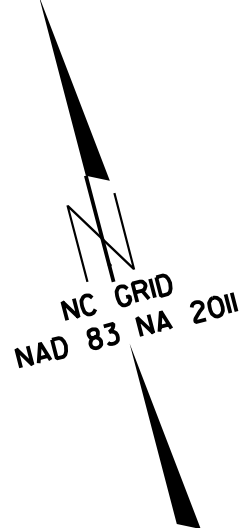
SUITE 500

FANLEIGH NORTH CAROLINA 27609

NC LICENSE NO: C-1554



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SIGN 005

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DATE 6/9/2026

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40311
ENGINEER
ANDREW D. BLUMSTEIN

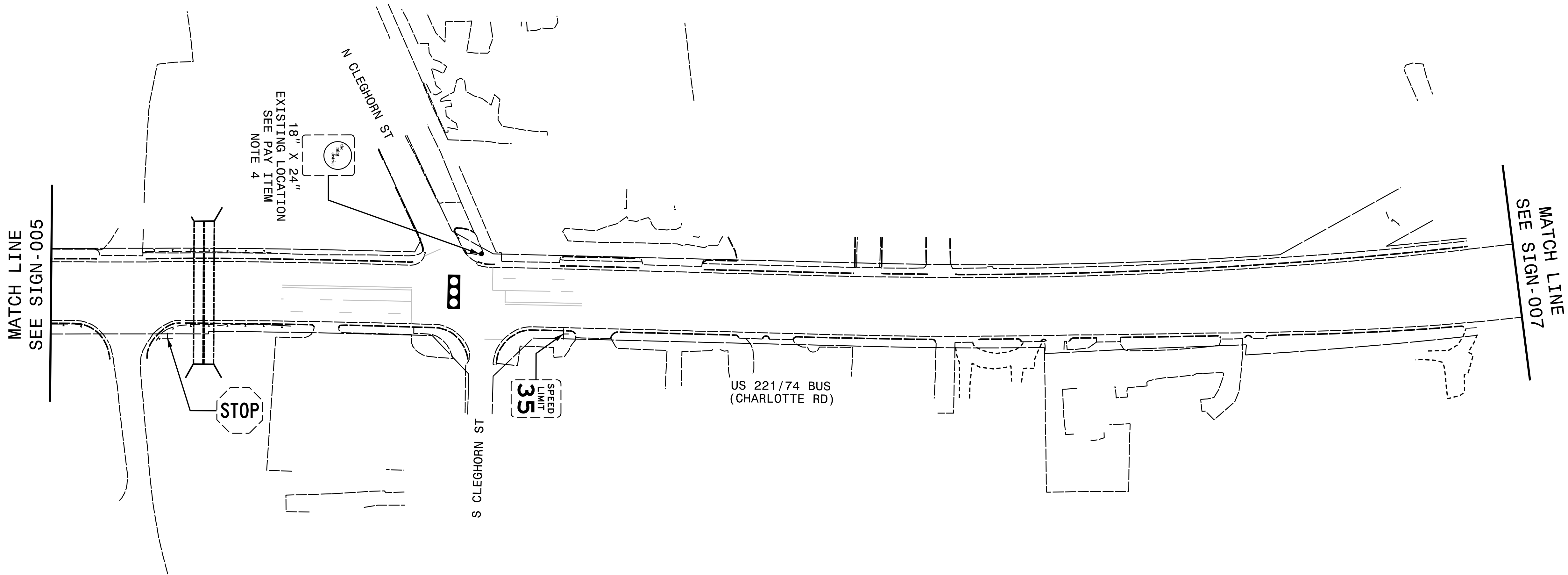
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DEPARTMENT OF TRANSPORTATION

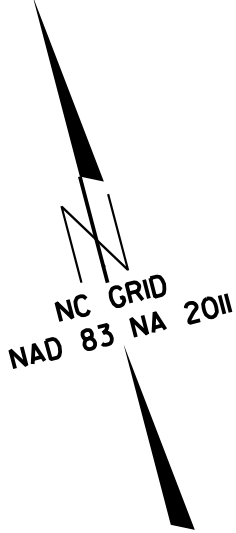
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HNTB NORTH CAROLINA, P.C.
8000 CENTER AT FORTH HILLS ST.
SUITE 500
FARMHILL NORTH CAROLINA 27609
NC LICENSE NO. C-1554



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HL-0065

SIGN006

NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

DocuSigned by:
Andrew D. Klimesek
APPROVED
E3D78FB4596E44B

DATE: 6/9/2026

SEAL:

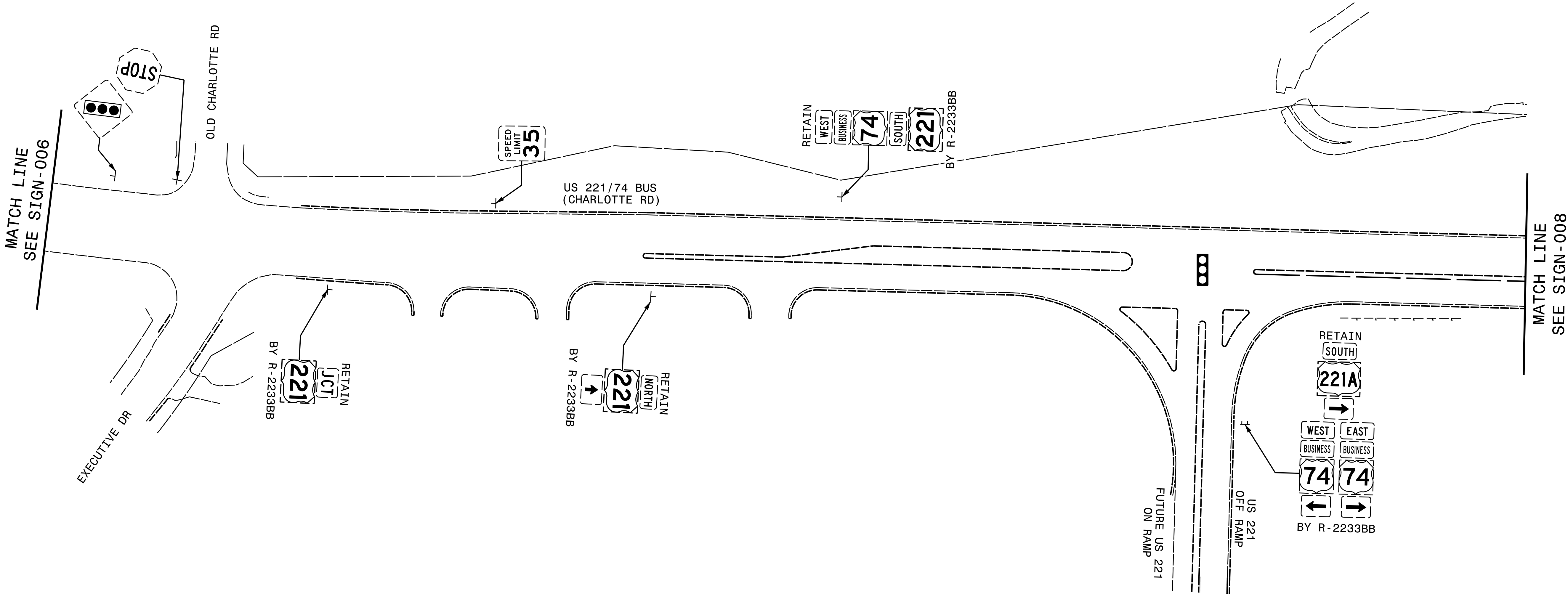
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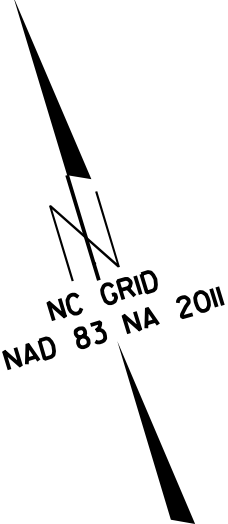
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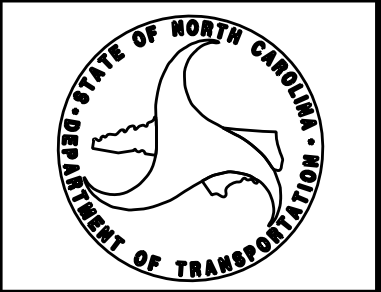
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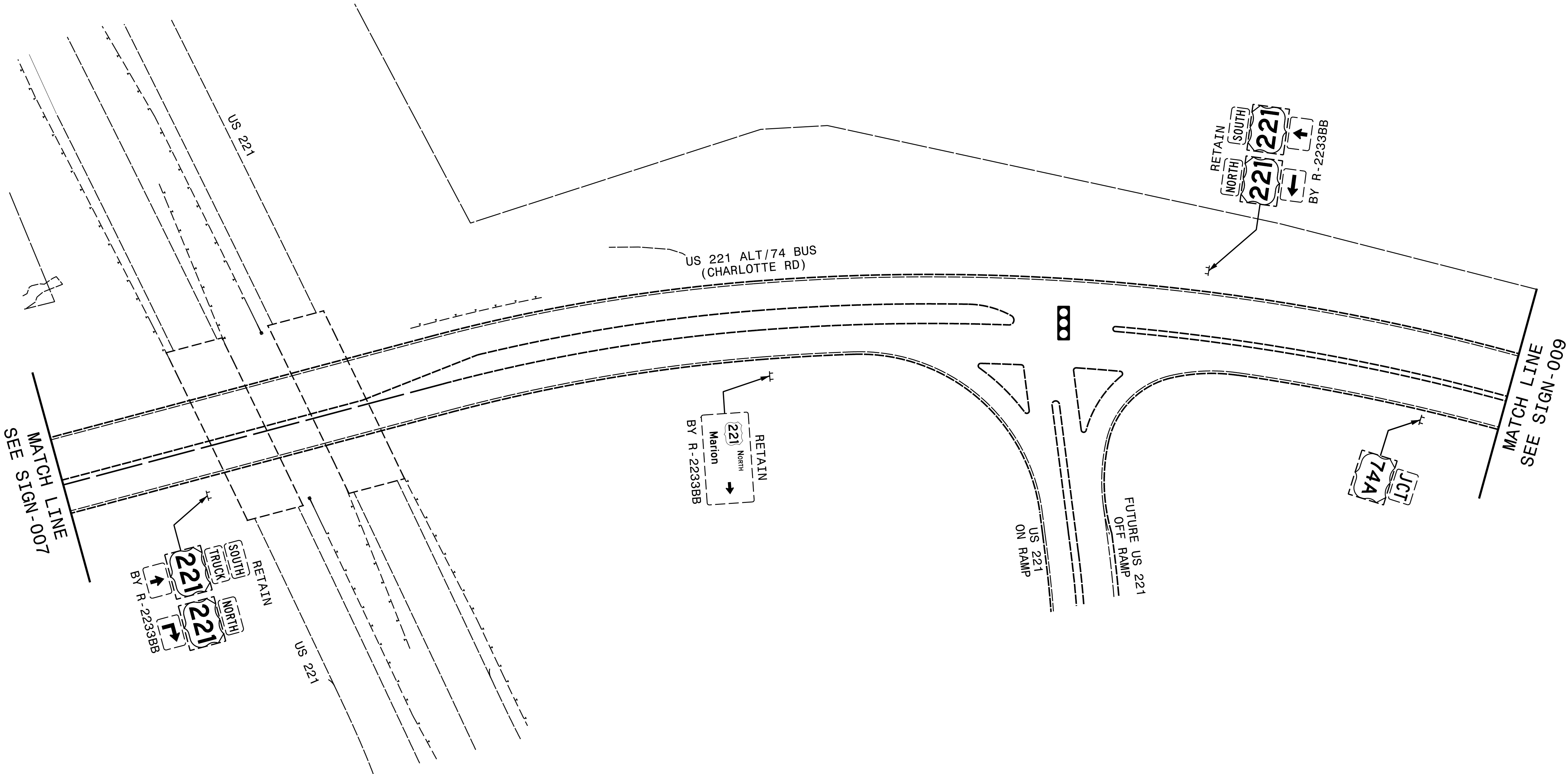
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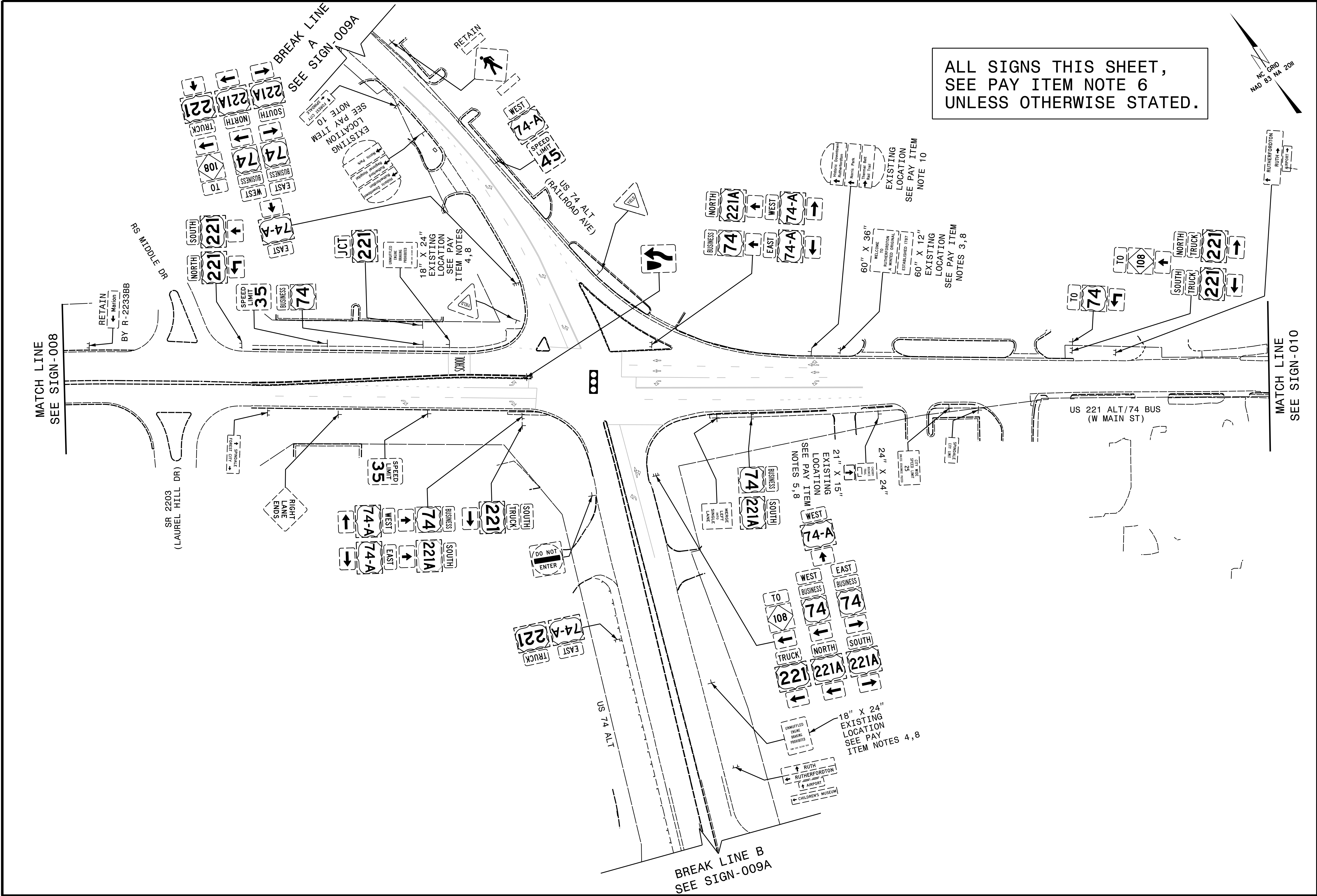


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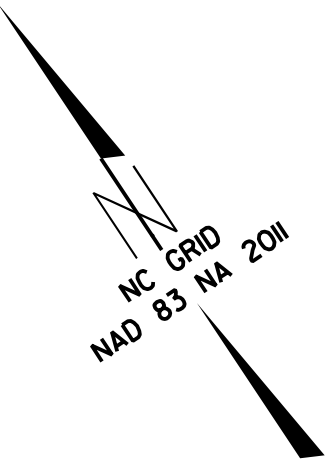
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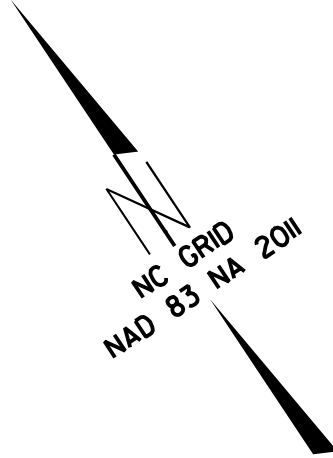
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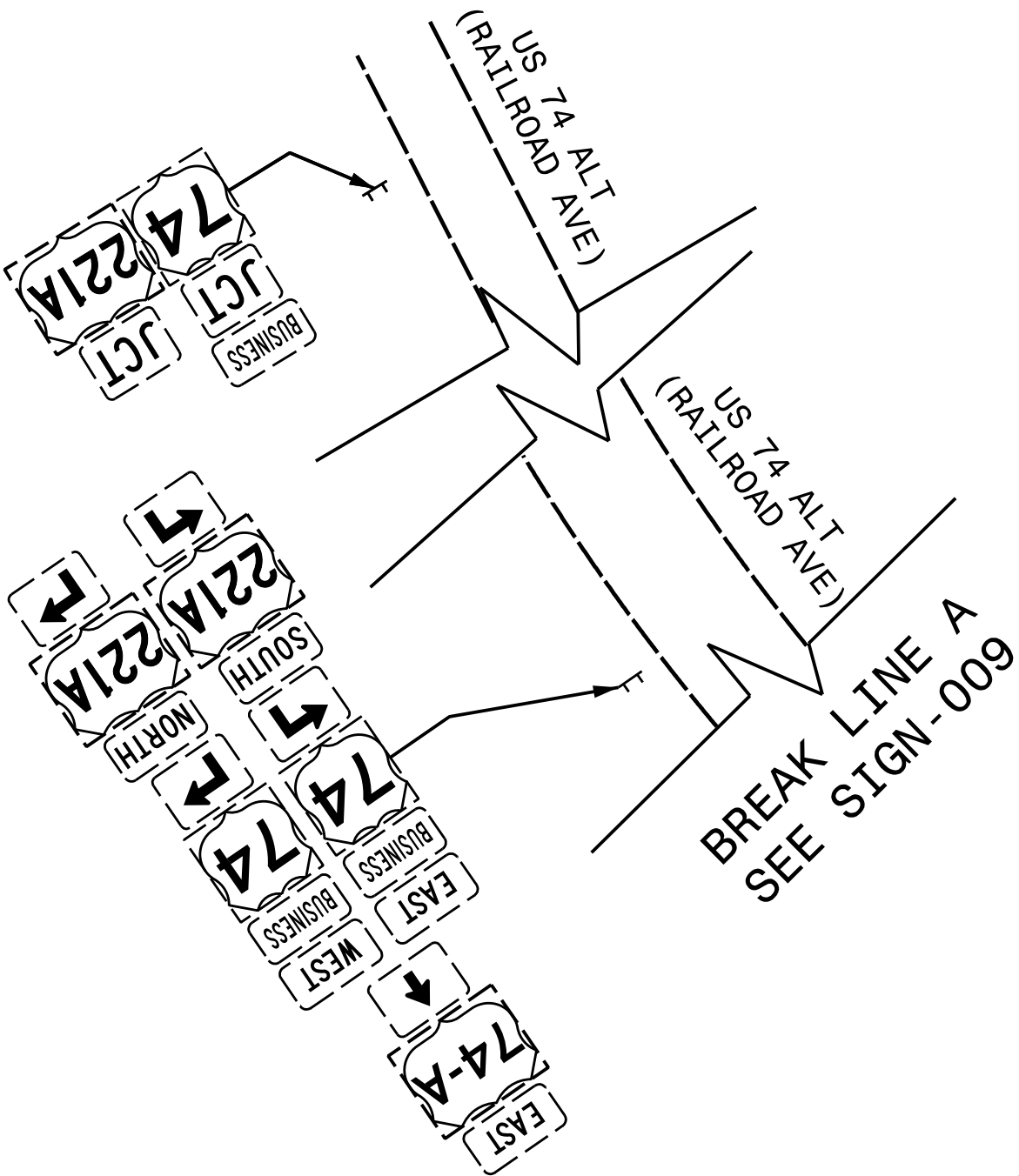
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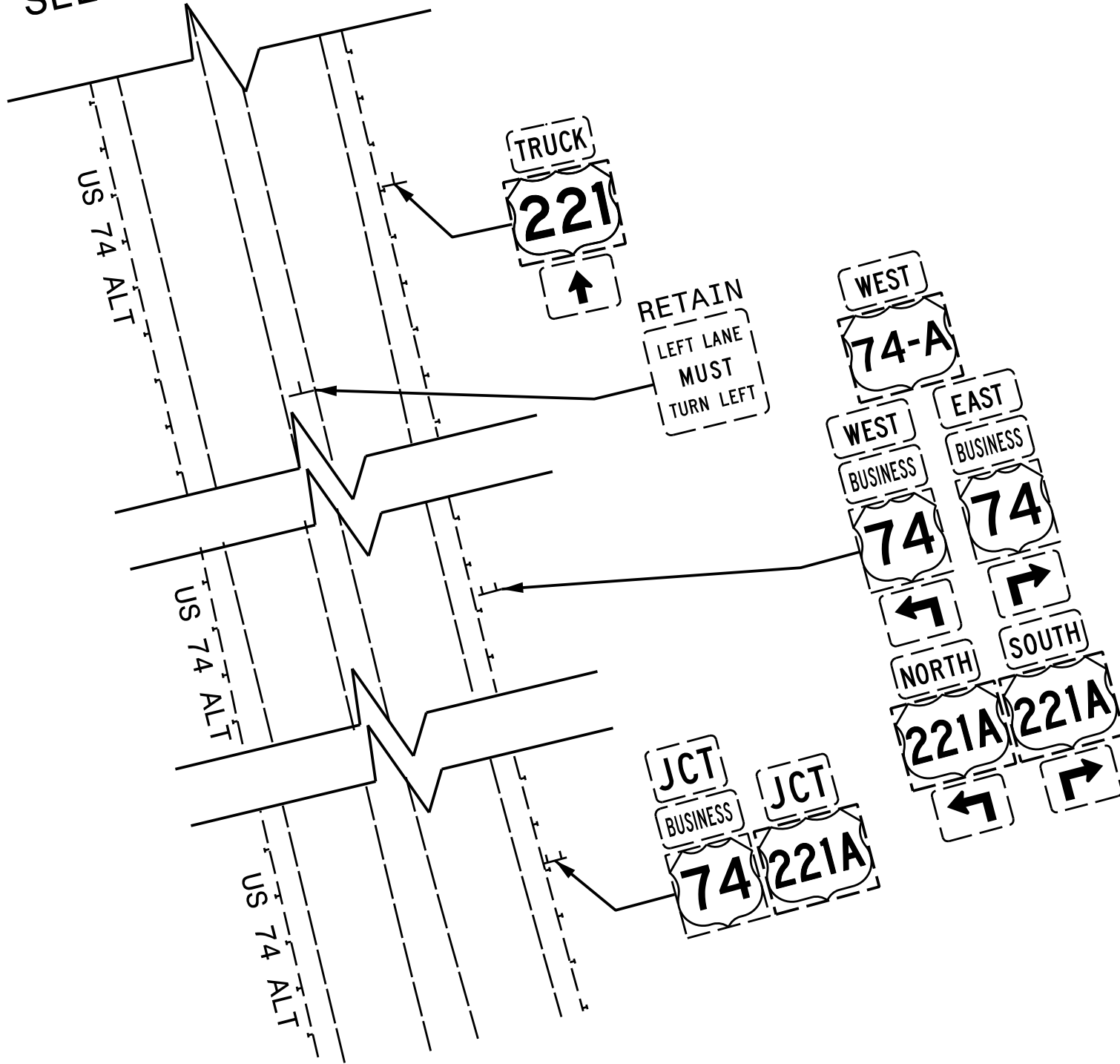
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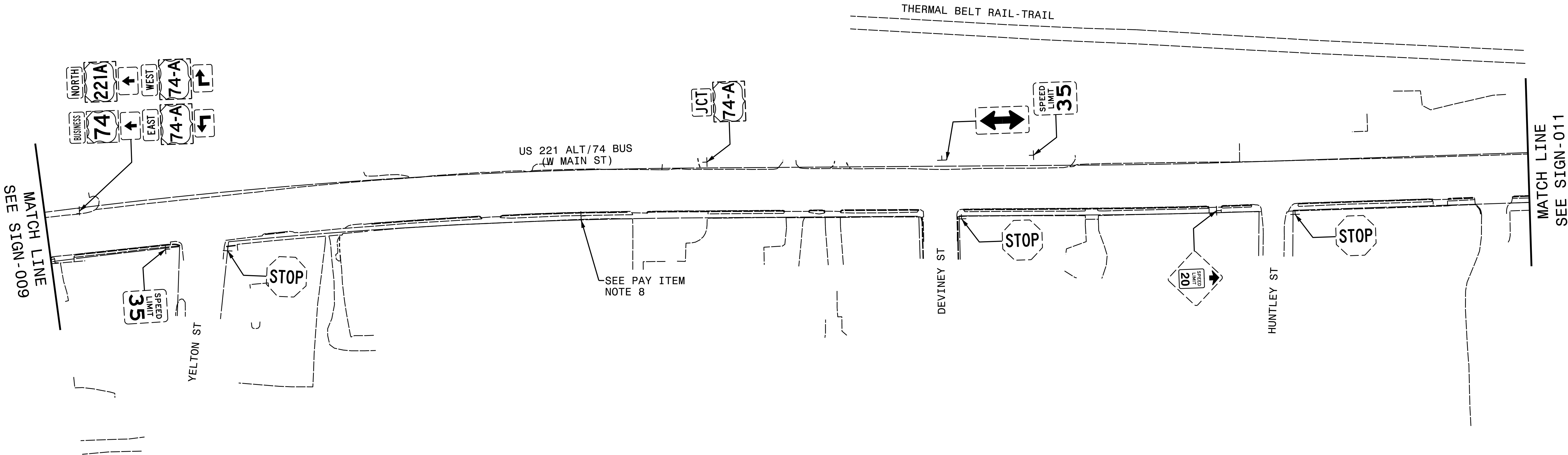
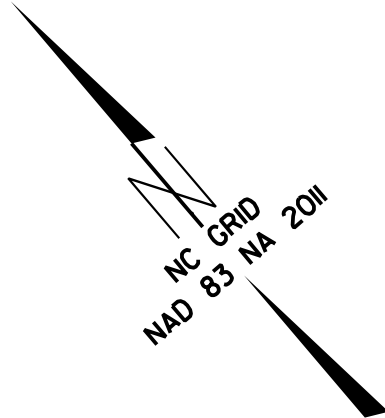
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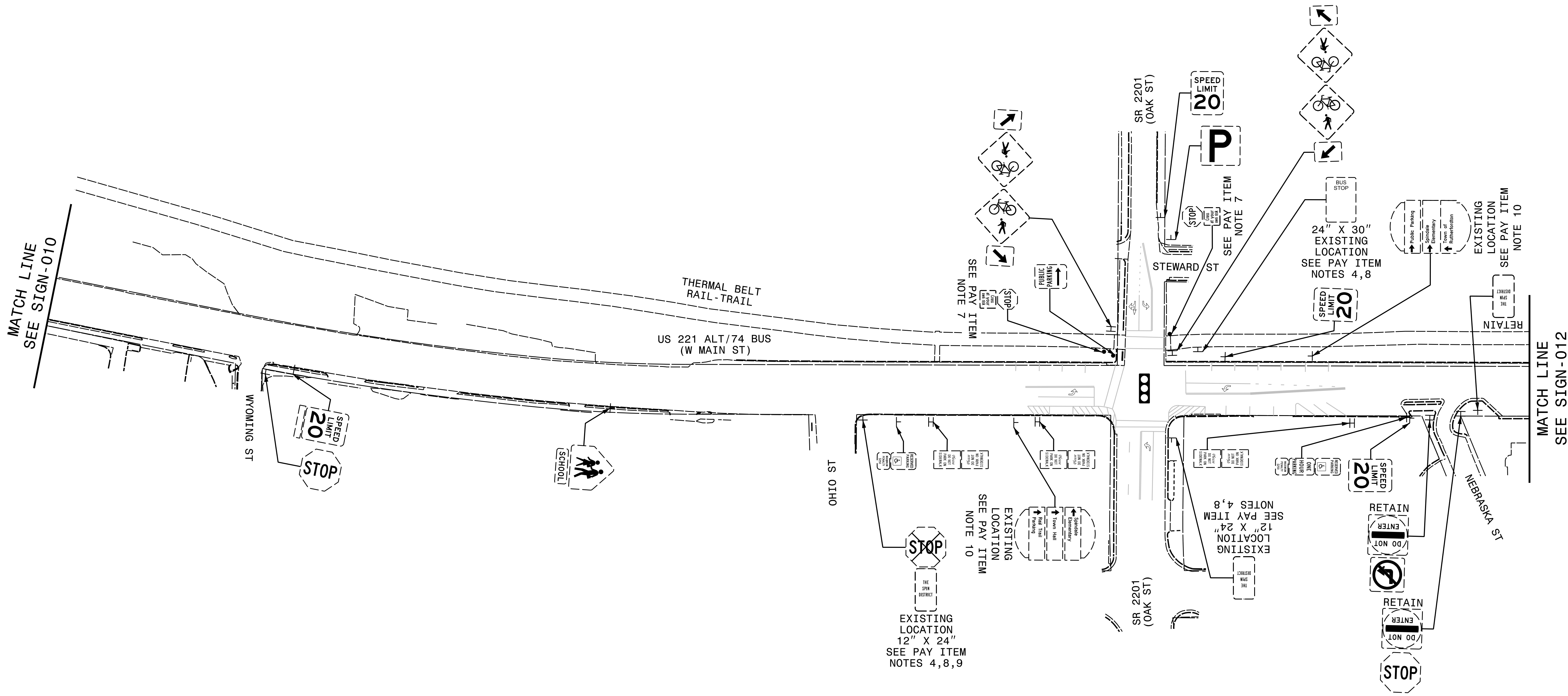
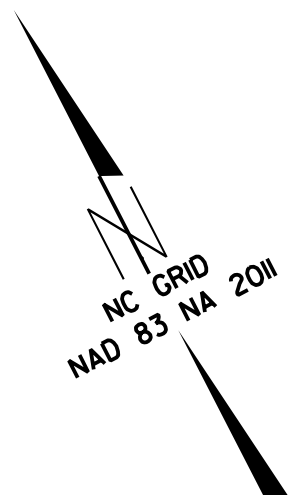
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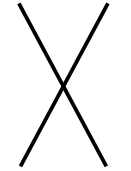
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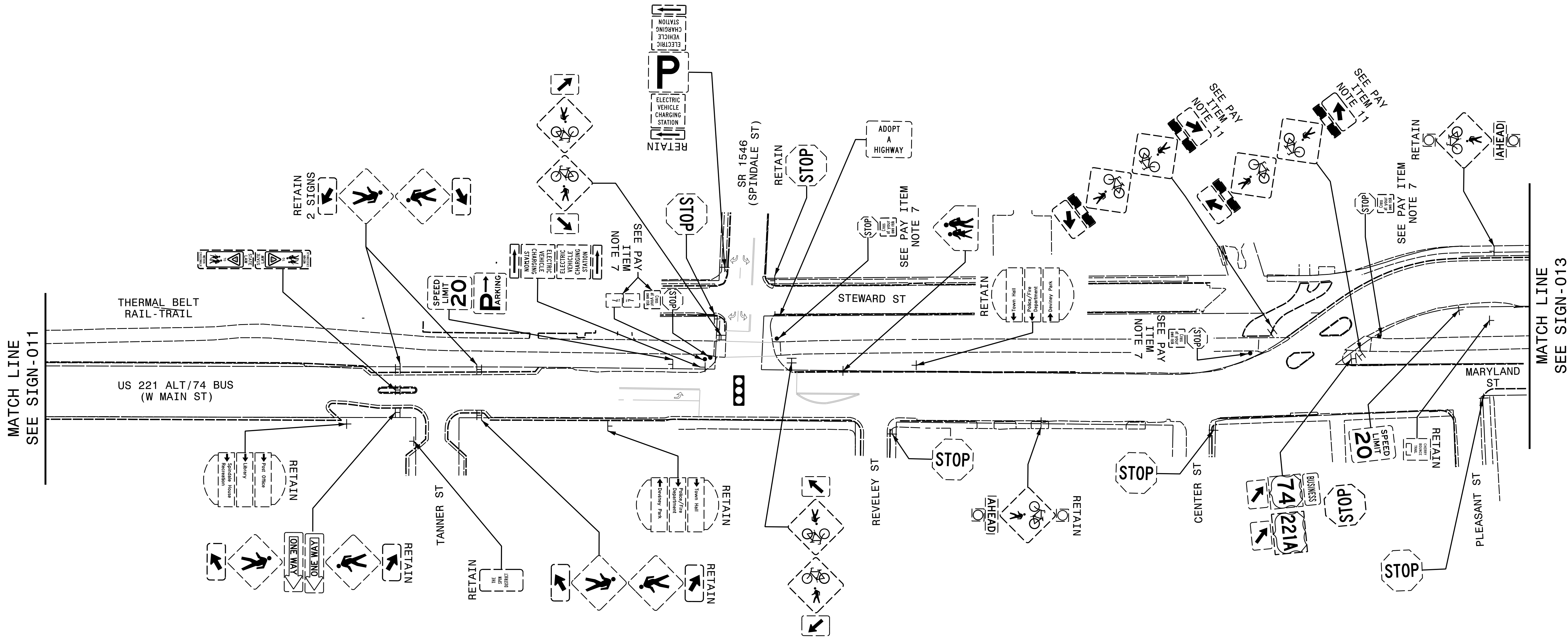
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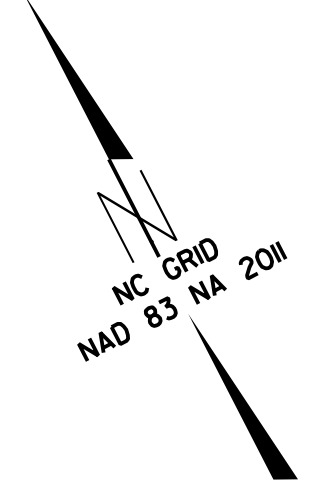
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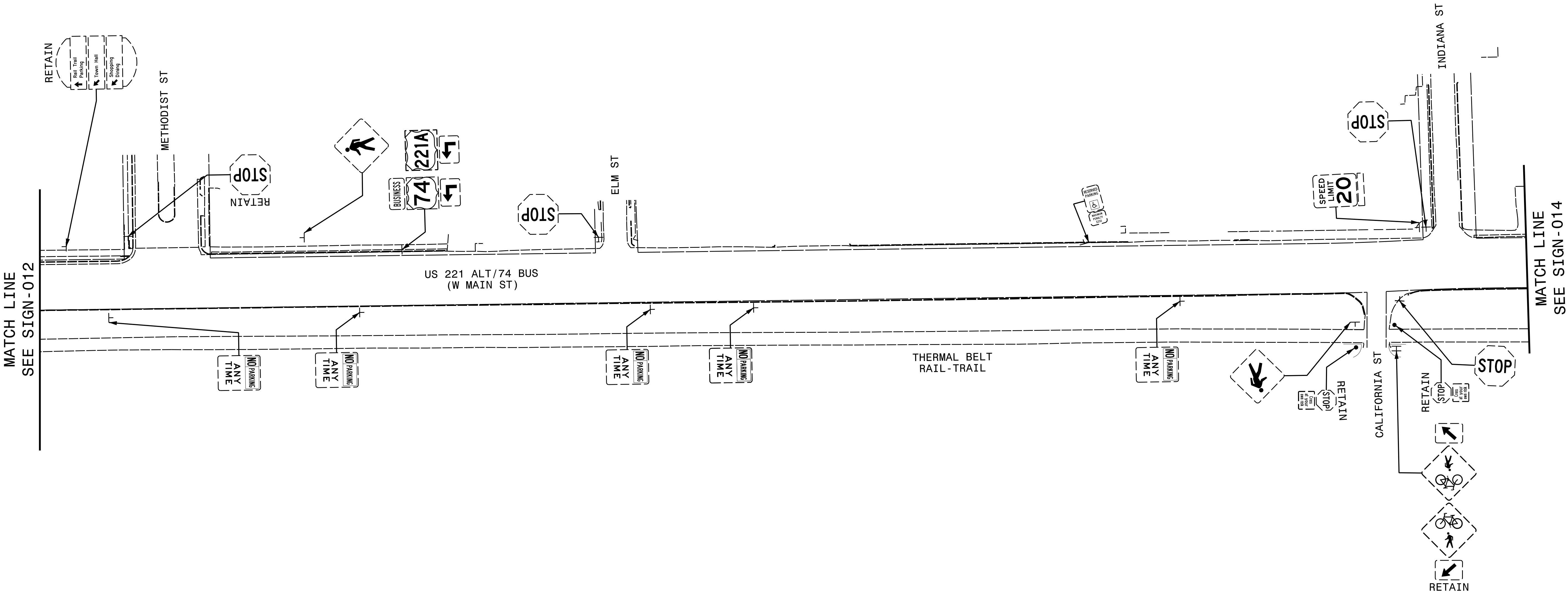
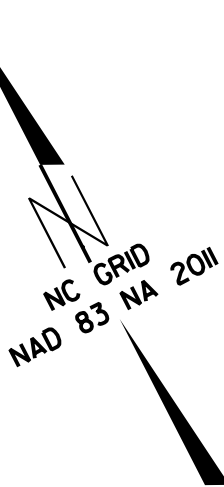
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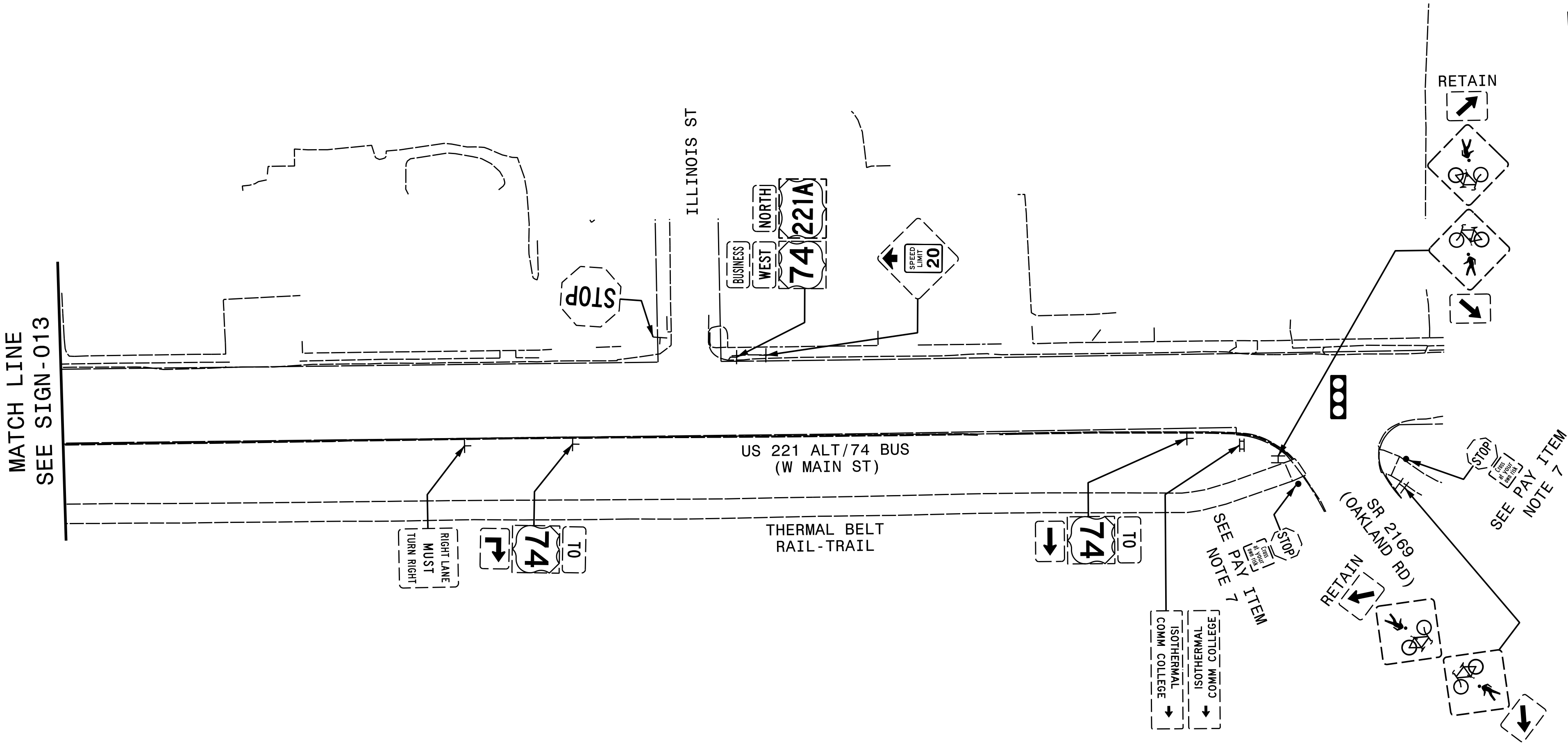
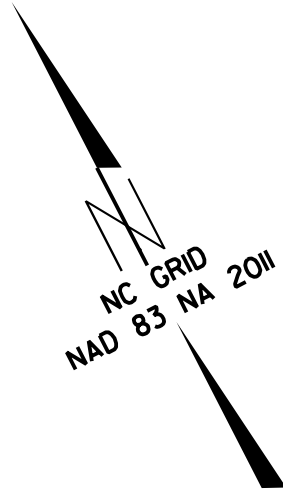
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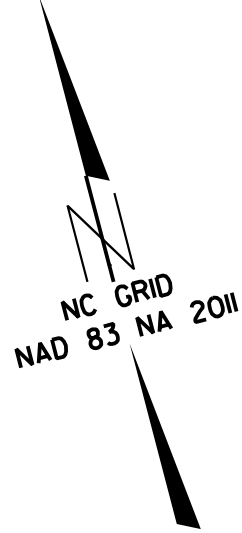
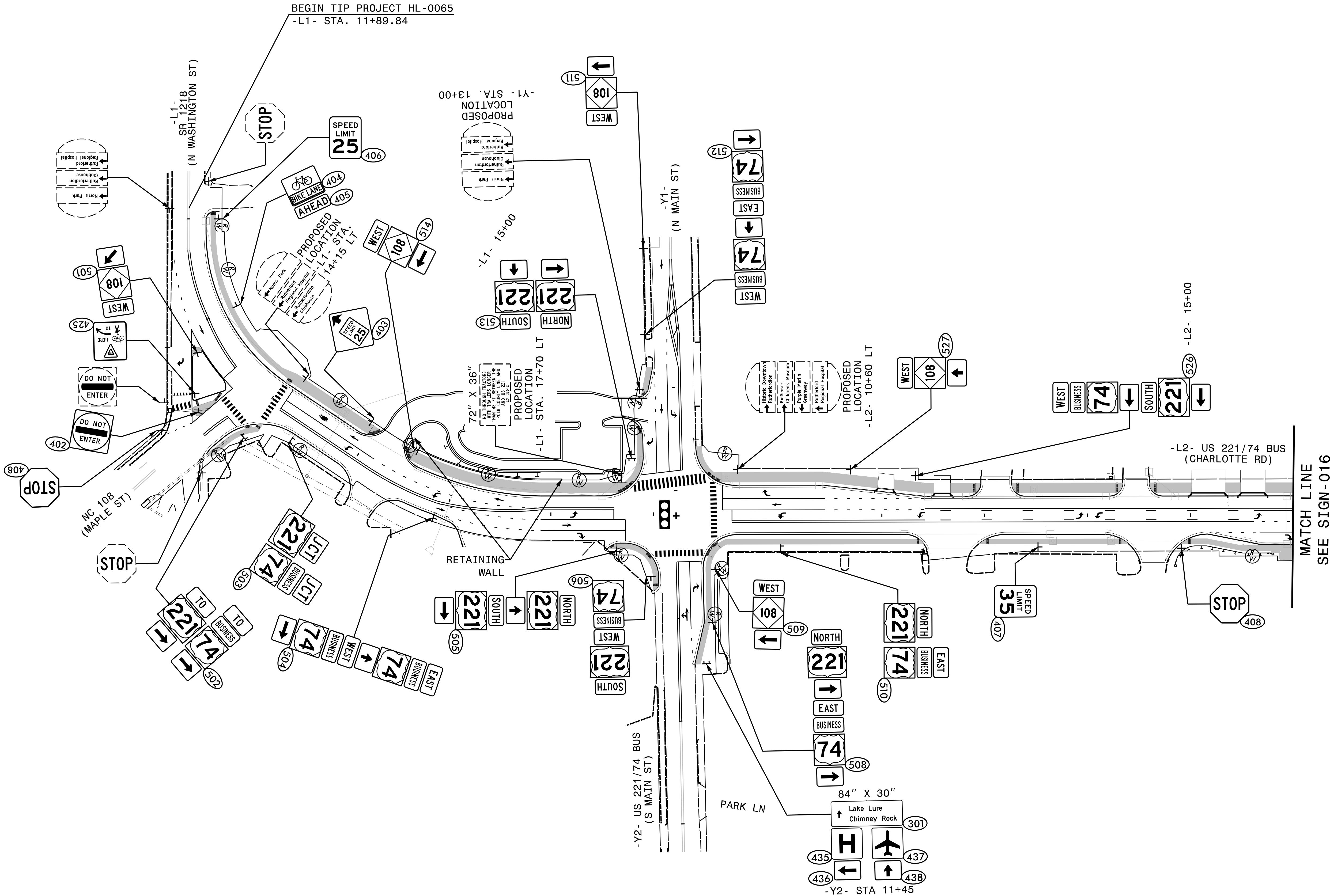
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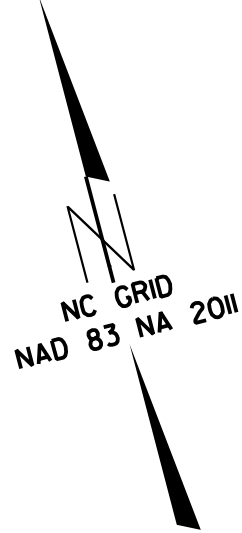
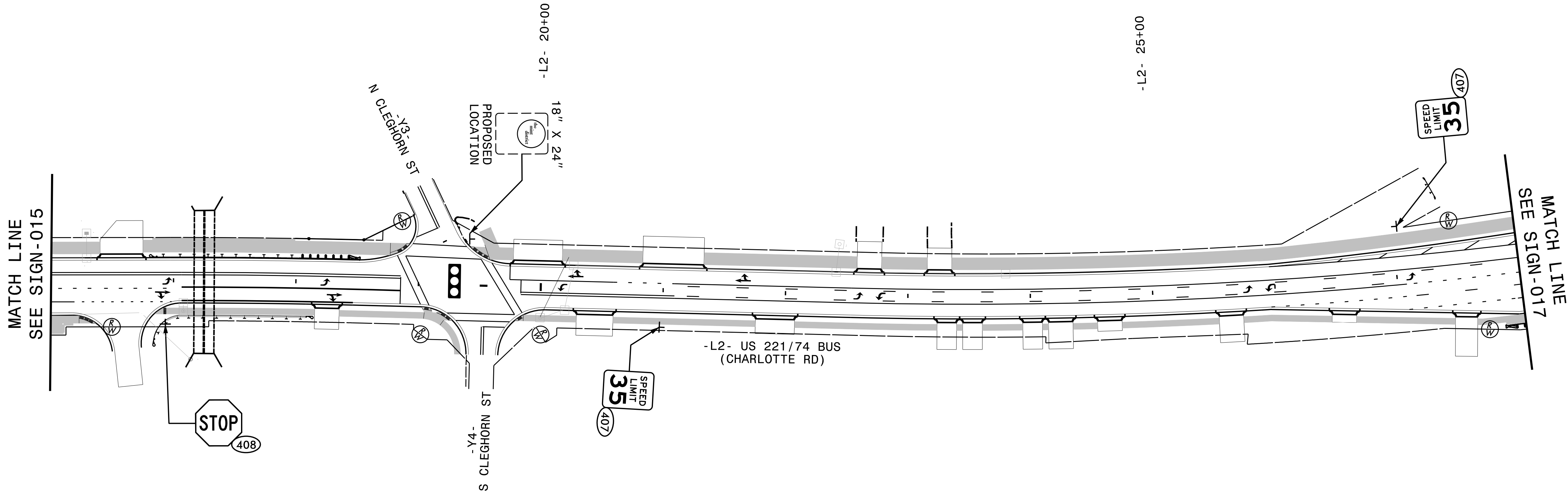
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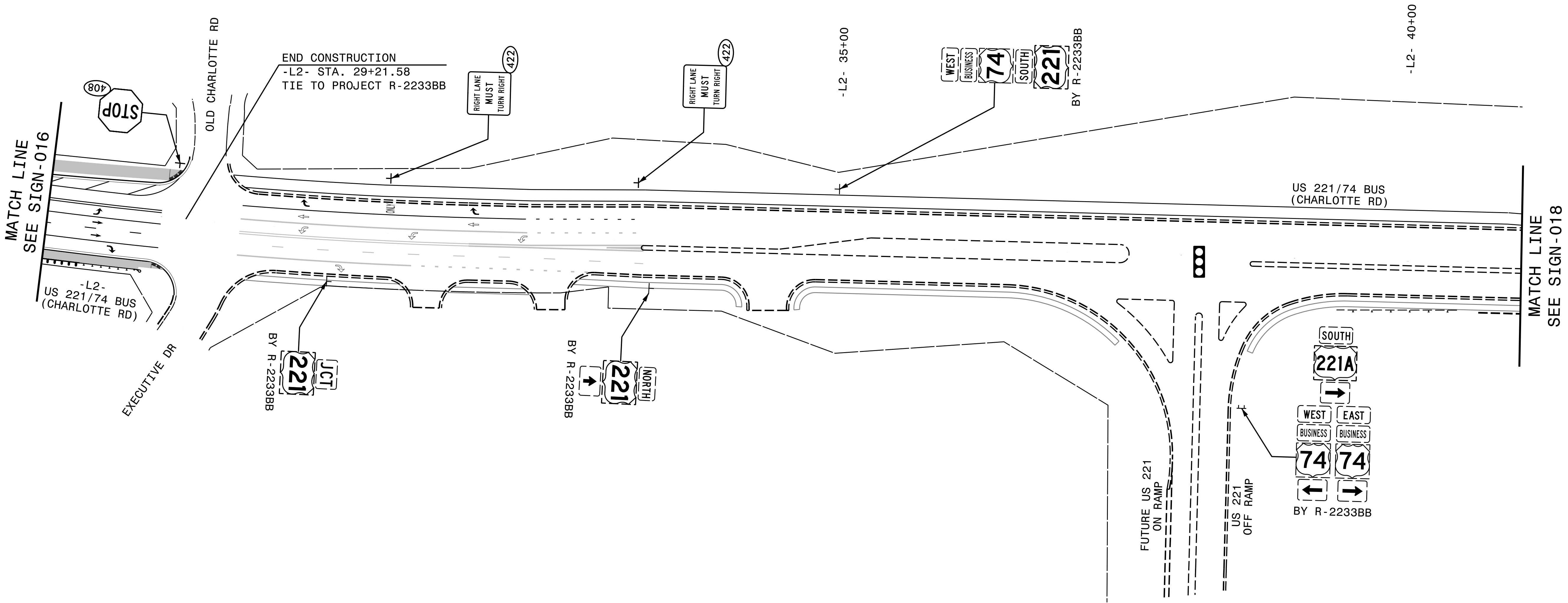
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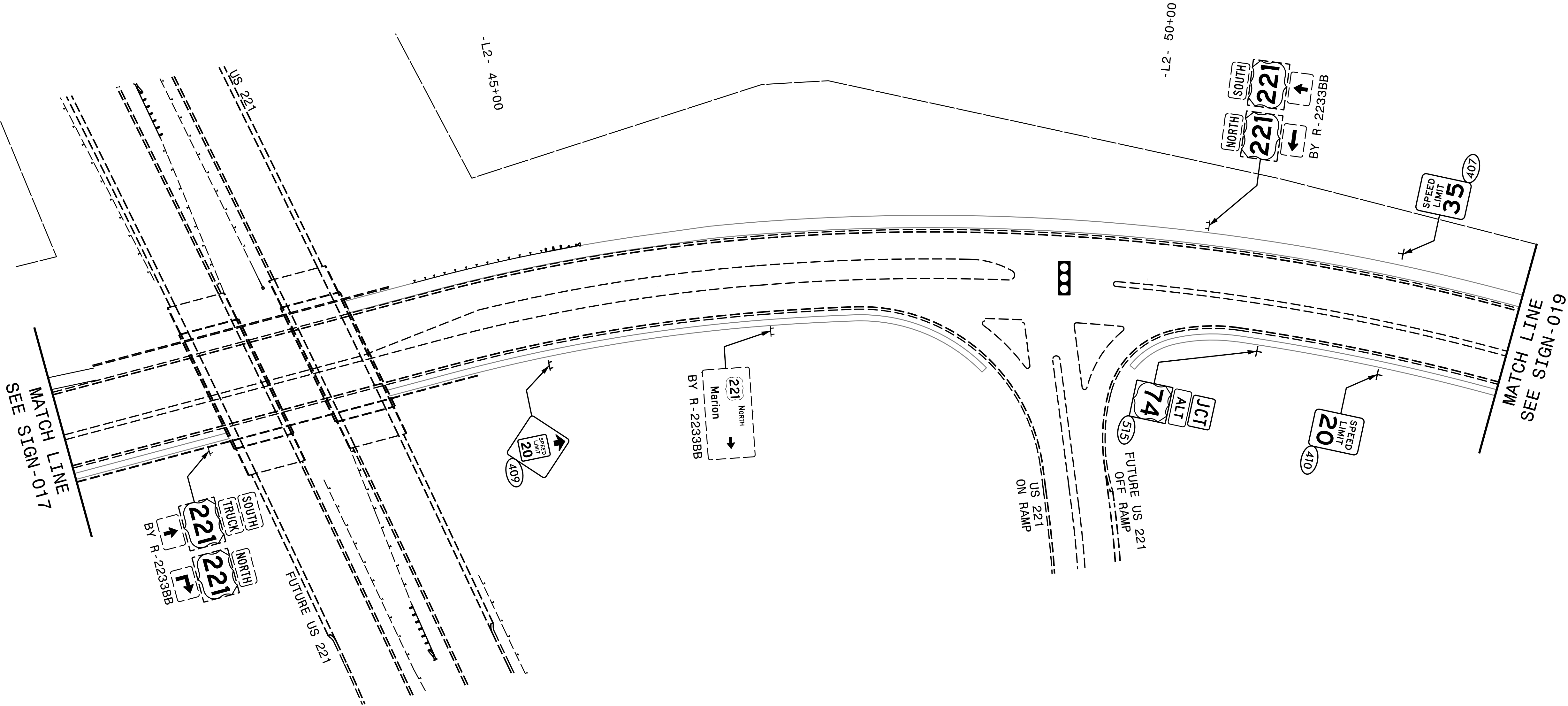
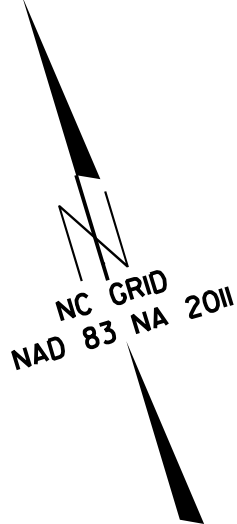
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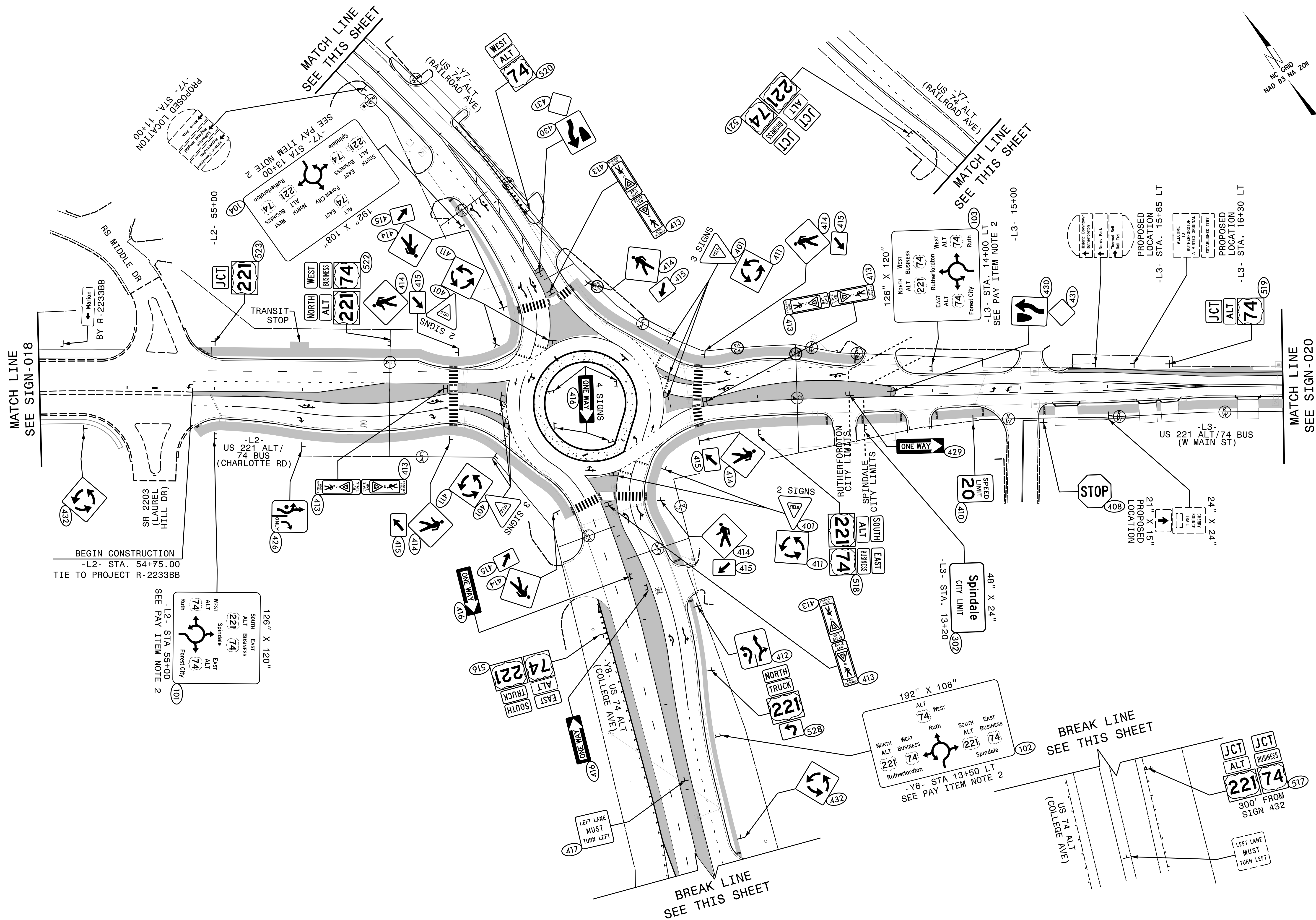
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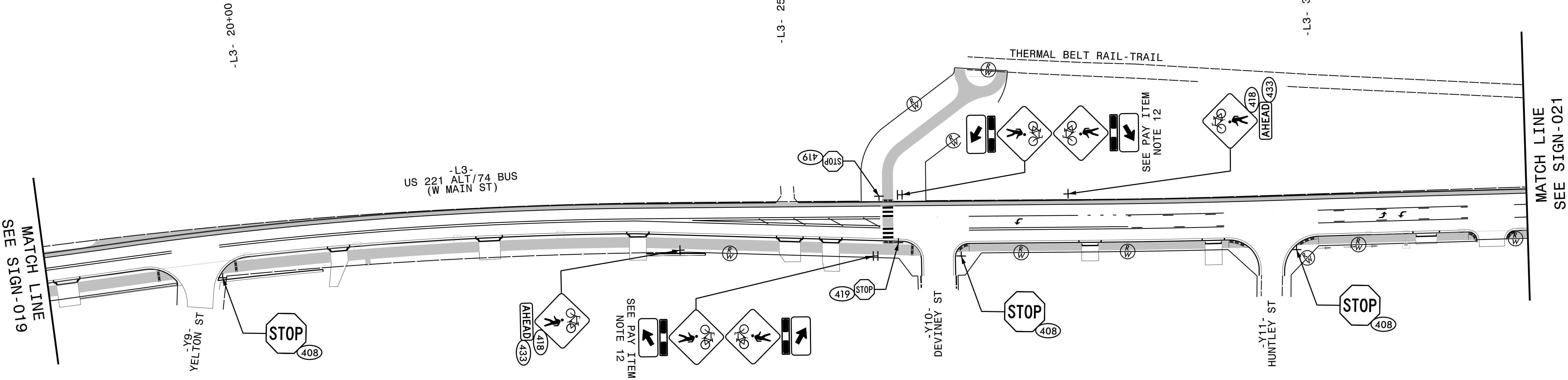
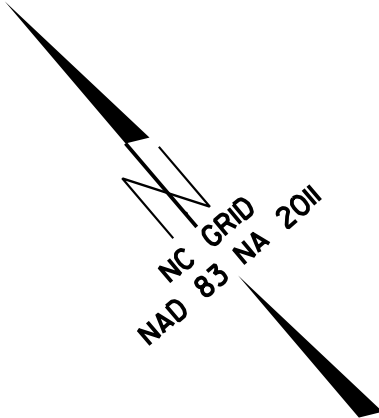
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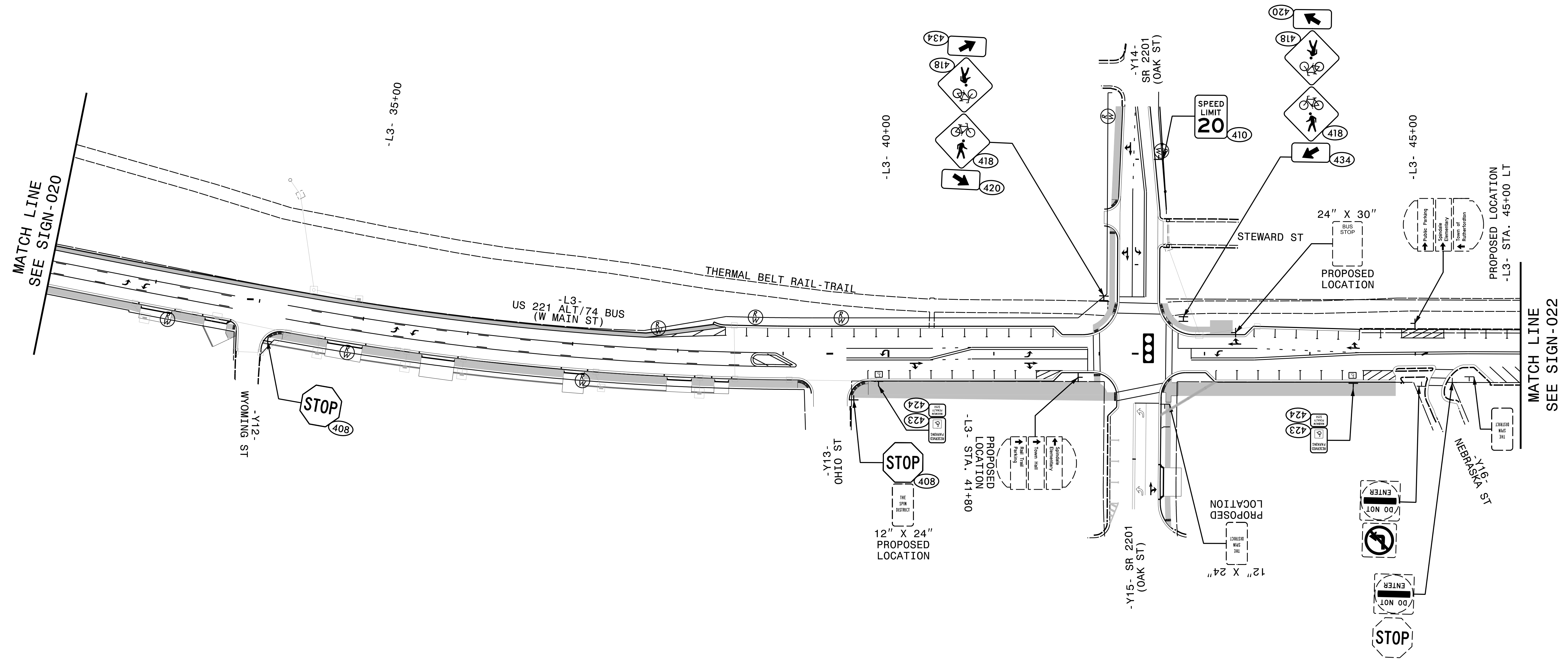
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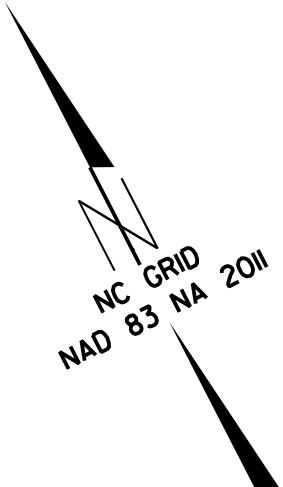
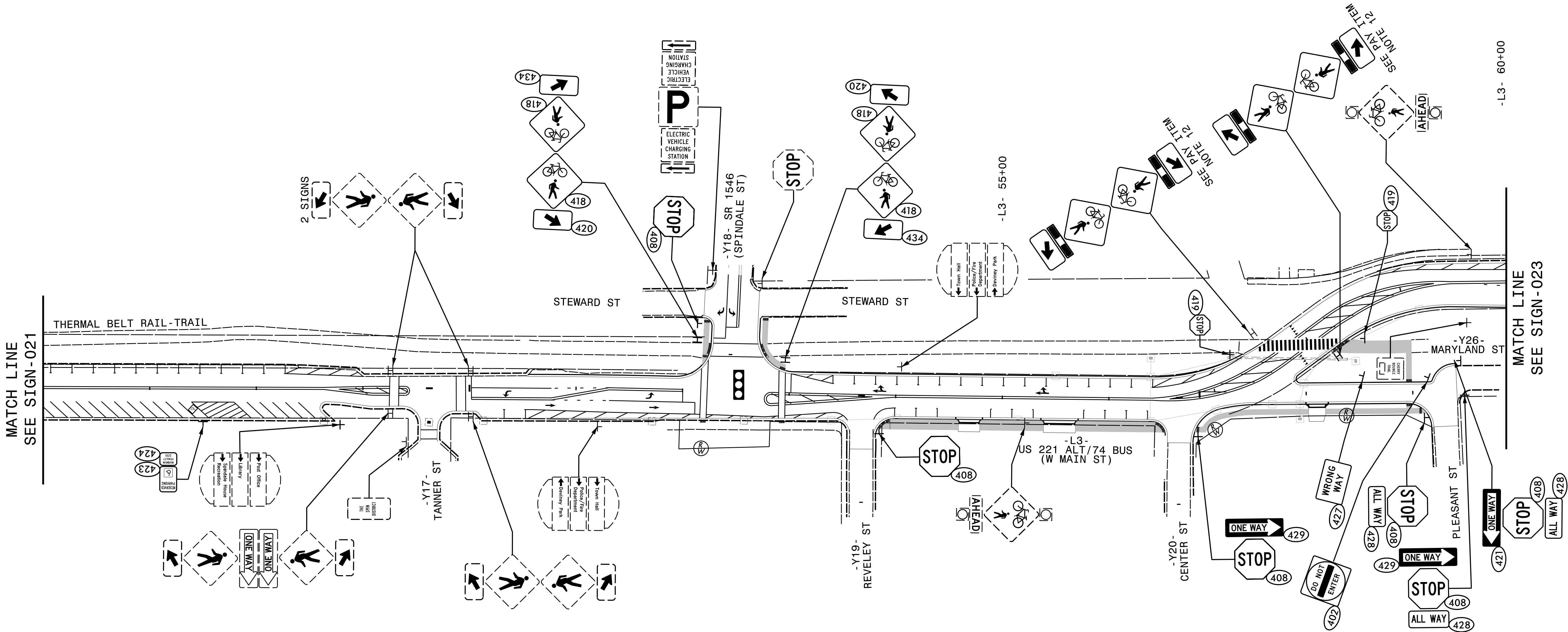
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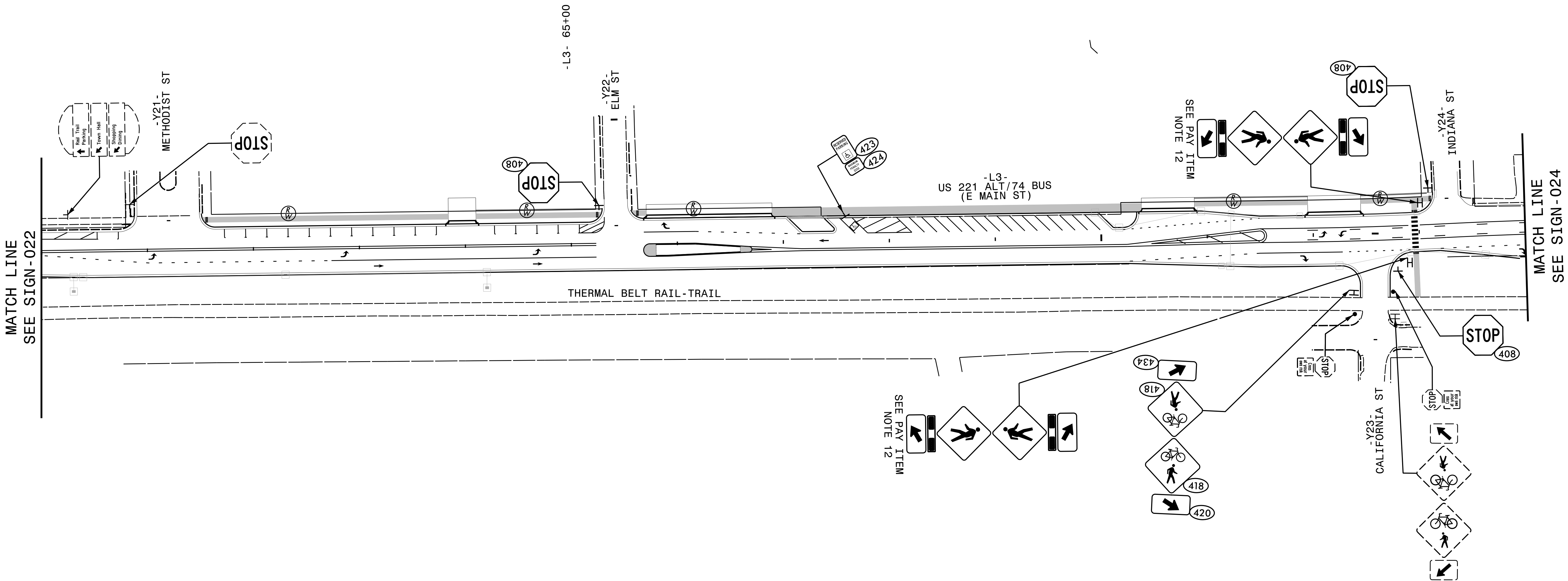
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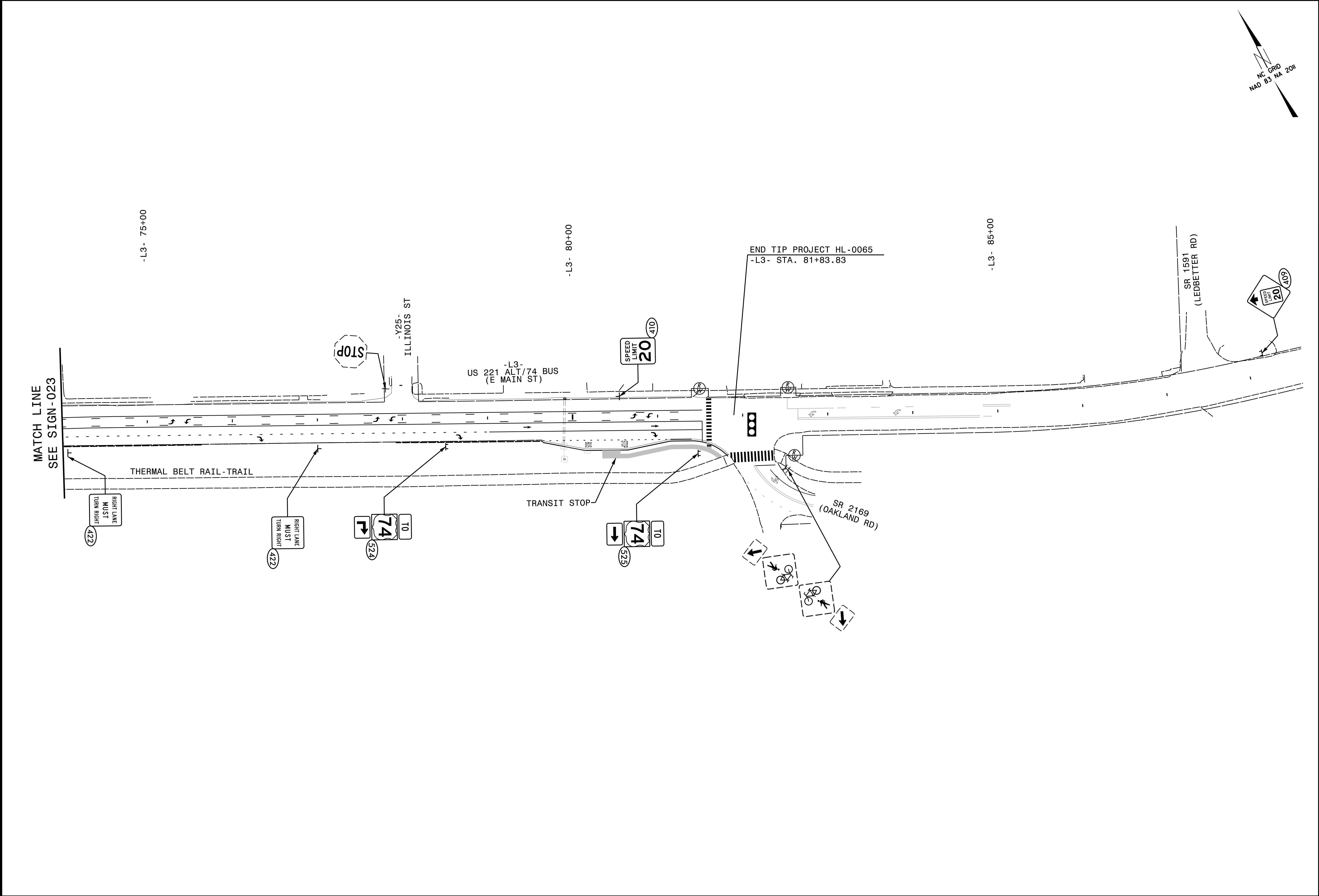
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