


STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

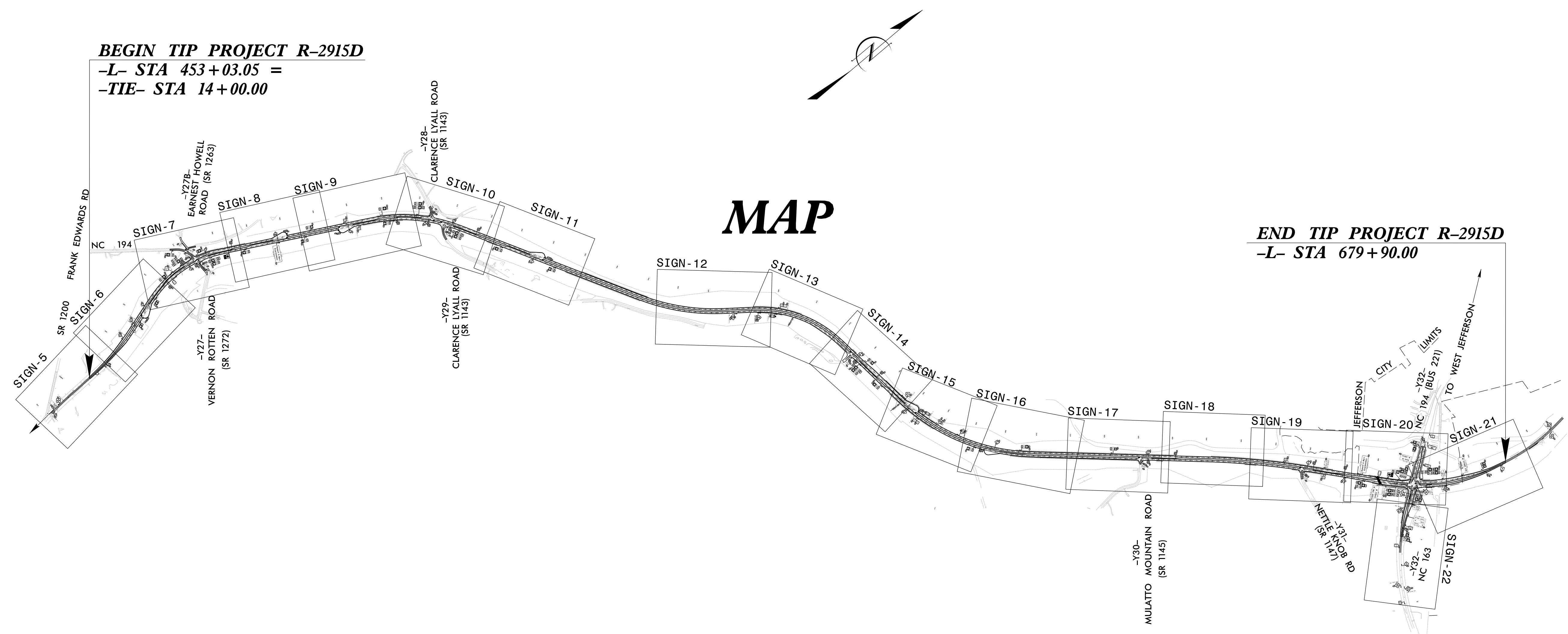
TIP NO. R-2915D	SHEET NO. SIGN-1
APPROVED: <i>Joseph B. Kopaskie</i> <small>DocuSigned by: Joseph B. Kopaskie BCD6EAEF80A54FA</small>	
DATE: 10/29/2014	
SEAL	



SIGNING PLAN

LOCATION: US 221 FROM SOUTH OF NC 194
TO US 221 BYPASS

ASHE COUNTY



BEGIN TIP PROJECT R-2915D
-L- STA 453+03.05 =
-TIE- STA 14+00.00

END TIP PROJECT R-2915D
-L- STA 679+90.00

MAP

INDEX

SHEET NO.	DESCRIPTION
SIGN-1 & 1A	TITLE SHEET, NOTES, QUANTITIES AND SPECIFICATIONS
SIGN-2, 2A & 2B	SUPPORT INFORMATION
SIGN-3 & 3A	E & F
SIGN-4-4C	SIGN DESIGNS
SIGN-5-21	R-2915D EXISTING & PROPOSED SIGN DETAIL SHEETS


PLAN PREPARED BY: SEPI ENGINEERING & CONSTRUCTION

JOSEPH B. KOPASKIE, PE SIGNING & DELINEATION PROJECT ENGINEER
RICHARD DRAYTON SIGNING & DELINEATION PROJECT DESIGN ENGINEER

NCDOT CONTACTS:

KELVIN L. JORDAN SIGNING & DELINEATION REGIONAL ENGINEER
DERRICK H. BEARD SIGNING & DELINEATION PROJECT DESIGN ENGINEER

\$\$\$\$\$SYTIME\$\$\$\$\$
\$\$\$\$\$EDGN\$\$\$\$\$
\$\$\$\$\$SERVTIME\$\$\$\$\$

TIP NO. R-2915D	SHEET NO. SIGN-1A
APPROVED: <u>Joseph E. Kopaskie</u> <small>AC09EAEF80ASFA</small>	
DATE: 10/29/2014	
SEAL	
	

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 2012 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
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
903.10	GROUND MOUNTED SIGN SUPPORTS (WITH THE EXCEPTION SHEETS 1 OF 3 AND 2 OF 3 WHICH ARE REPLACED WITH SHEETS SIGN-2A AND 2B IN PLANS)
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

PROJECT NOTES

1. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
3. SIGN ERECTION, RELOCATE SIGN TYPE E
4. DISPOSAL OF SUPPORT, U-CHANNEL
5. INSTALLED BY STATE FORCES
6. DISPOSAL OF SIGN, D, E OR F

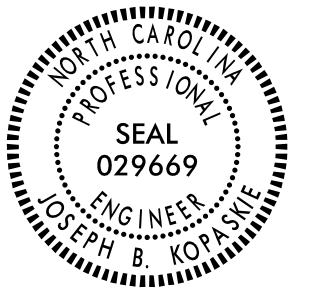
GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . 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 GRADE 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 FOUNDATION	3	C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	1853	LB.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM	493	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	3192	L.F.
4096000000	904	SIGN ERECTION, TYPE D	5	EA.
4102000000	904	SIGN ERECTION, TYPE E	102	EA.
4108000000	904	SIGN ERECTION, TYPE F	32	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	3	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	2	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E	8	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	4	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	61	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	8	EA.
4238000000	907	DISPOSAL OF SIGN, D, E OR F	6	EA.

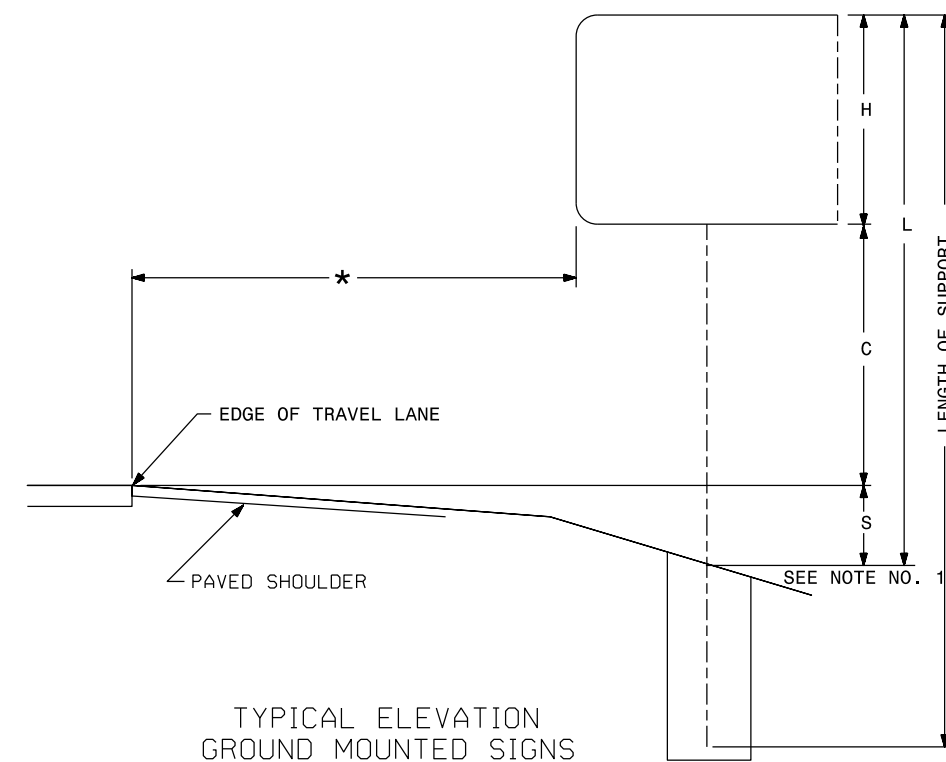
\$\$\$ SYSTEMS \$\$\$
 \$\$\$ SUBMITTED \$\$\$
 \$\$\$ DATE: 10/29/2014 \$\$\$

TIP NO. R-2915D	SHEET NO. SIGN-2
DocuSigned by: Joseph B. Kopasnik 9C0DEAEFF80A54FA	
APPROVED: _____	
DATE: 10/29/2014	
SEAL	
	

SIGN NO.	SIGN TYPE	SIGN SIZE (in.)			ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (ft.)	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			FOOTING DIAMETER (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	PLAIN FTGS. (c.y.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)																				
		w	x	h								SNS HT H	MTG HT C	EMBED. MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH																											
101	A	174	X	66	489+22 -L-	2	W6x12	BA	N/A	N/A	30.00	5.50	7.22	4.5	-0.22	12.50	17.00	0.00	0.00	0.00	-0.13	12.59	17.09	1.5	5	494.44	0.00	0.65	0.00																					
102	B	108	X	42	661+83 -L-	2	W6x12	S	N/A	N/A	18.00	3.50	7.00	4	4.69	15.19	19.19	0.00	0.00	0.00	7.34	17.84	21.84	1.5	4.5	0.00	492.36	0.59	0.00																					
103	A	174	X	66	657+41 -L-	2	W6x12	BA	N/A	N/A	30.00	5.50	8.76	5	-0.07	14.19	19.19	0.00	0.00	0.00	-1.76	12.50	17.50	1.5	5.5	525.64	0.00	0.72	0.00																					
104	B	108	X	42	673+11 -L-	2	S4x7.7	BA	N/A	N/A	30.00	3.50	7.00	4	0.11	10.61	14.61	0.00	0.00	0.00	2.76	13.26	17.26	1	4.5	286.01	0.00	0.00	0.26																					
105	A	108	X	78	26+56 -Y32-	2	W6x12	BA	N/A	N/A	30.00	6.50	7.00	4.5	1.65	15.15	19.65	0.00	0.00	0.00	0.73	14.23	18.73	1.50	5	545.92	0.00	0.65	0.00																					
																							TOTAL	TOTAL	TOTAL	TOTAL																								
																							1852.02	492.36	2.62	0.26																								
																							USE:	1853	493	3																								

NOTES

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
- 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
- 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.



TYPE "A" AND TYPE "B" GROUND MOUNTED SIGNS

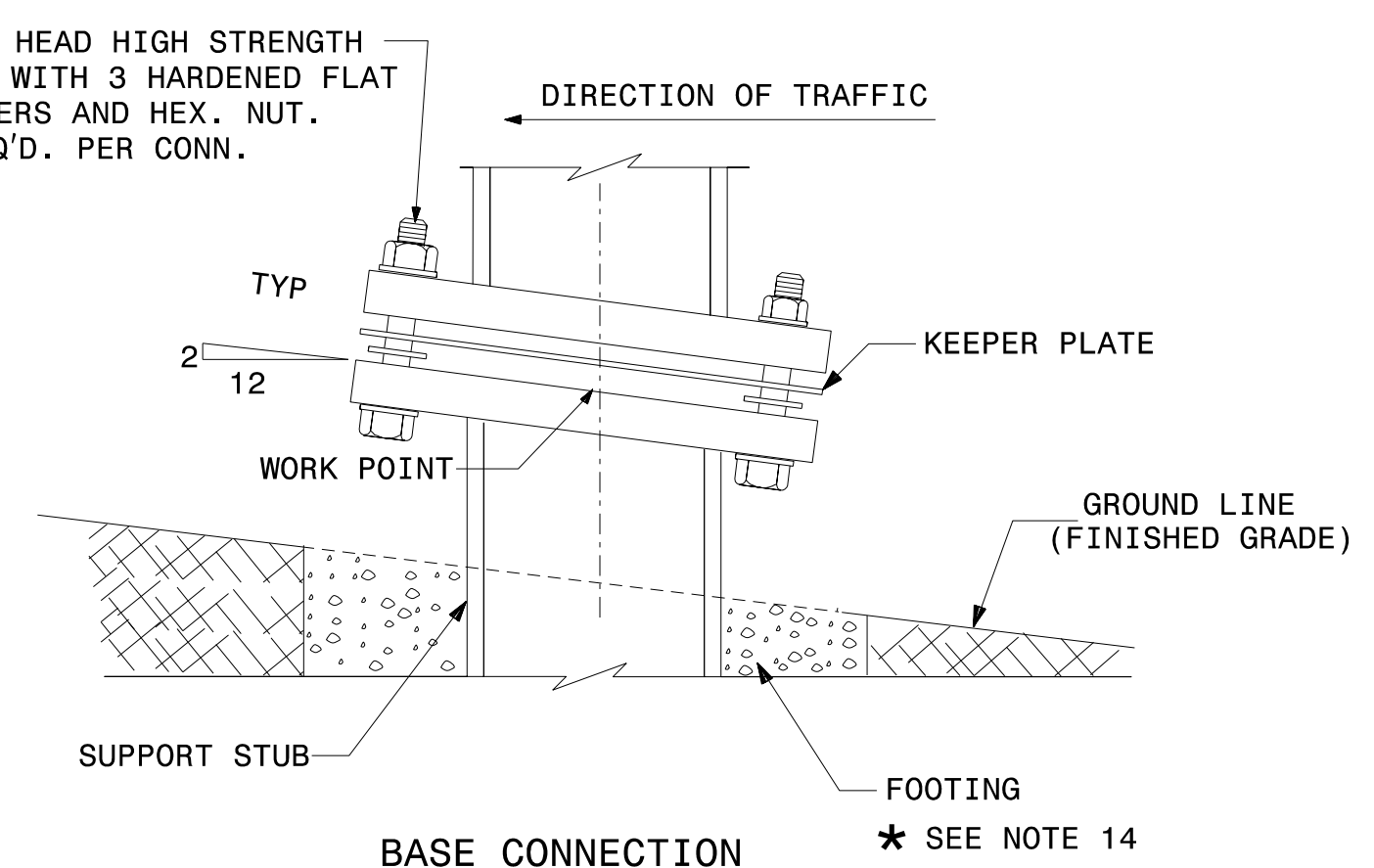
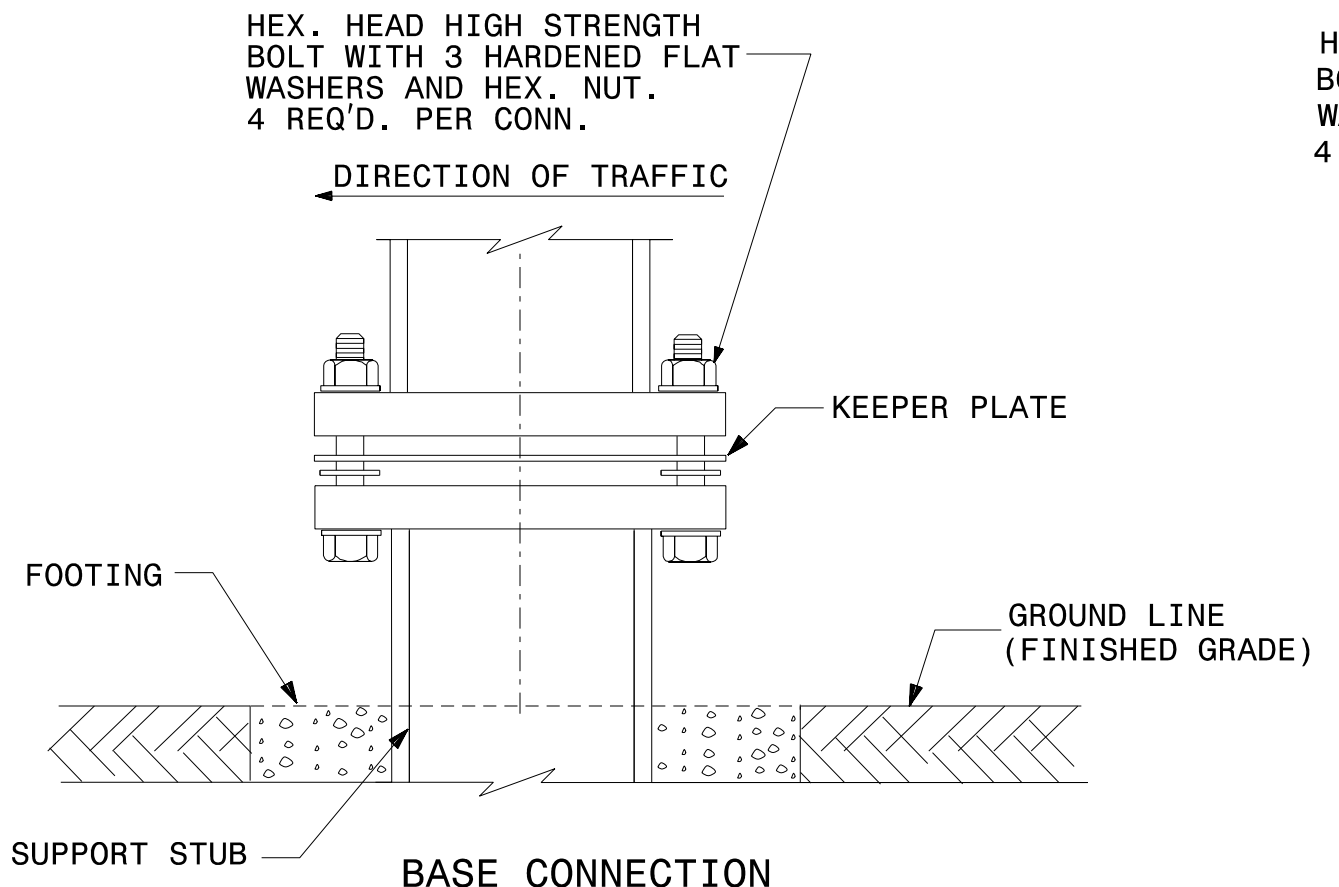
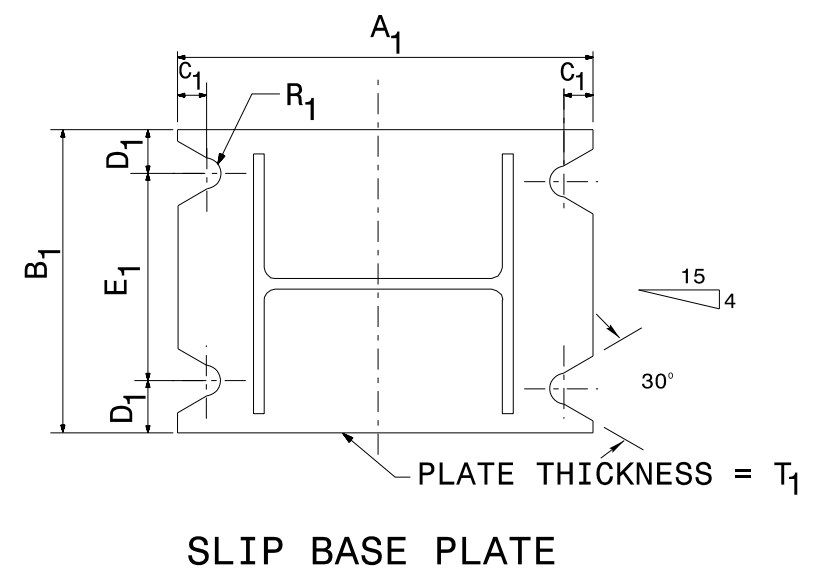
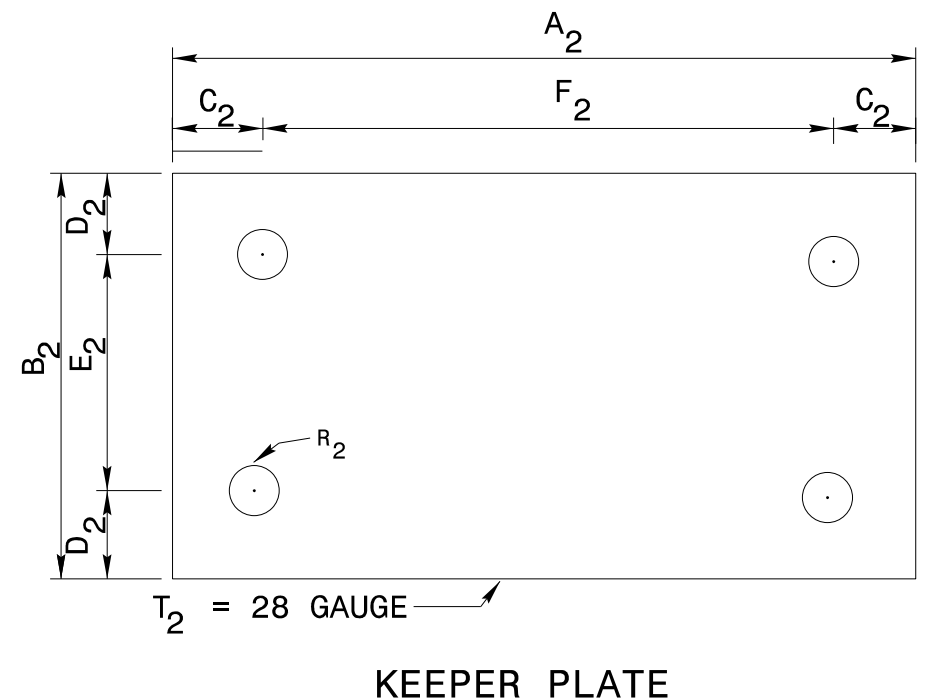
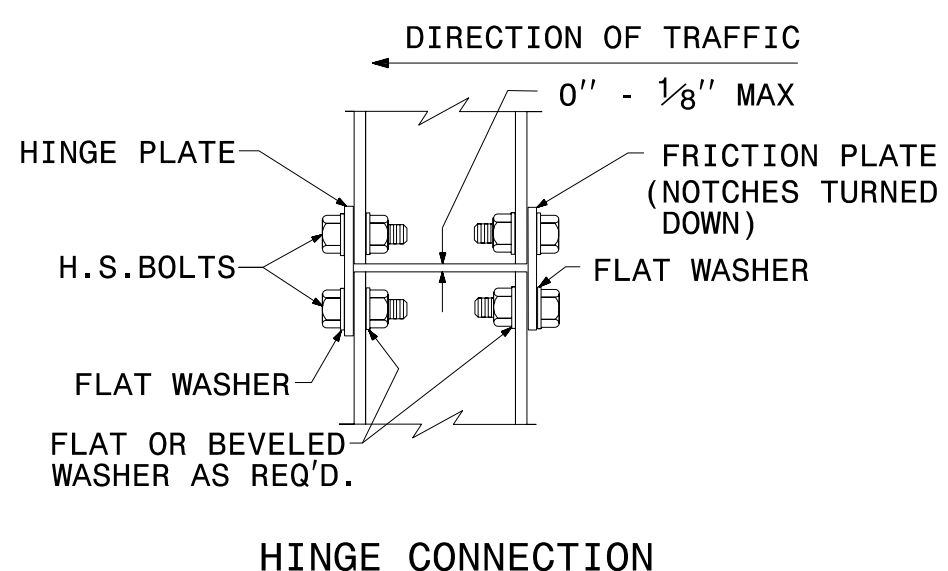
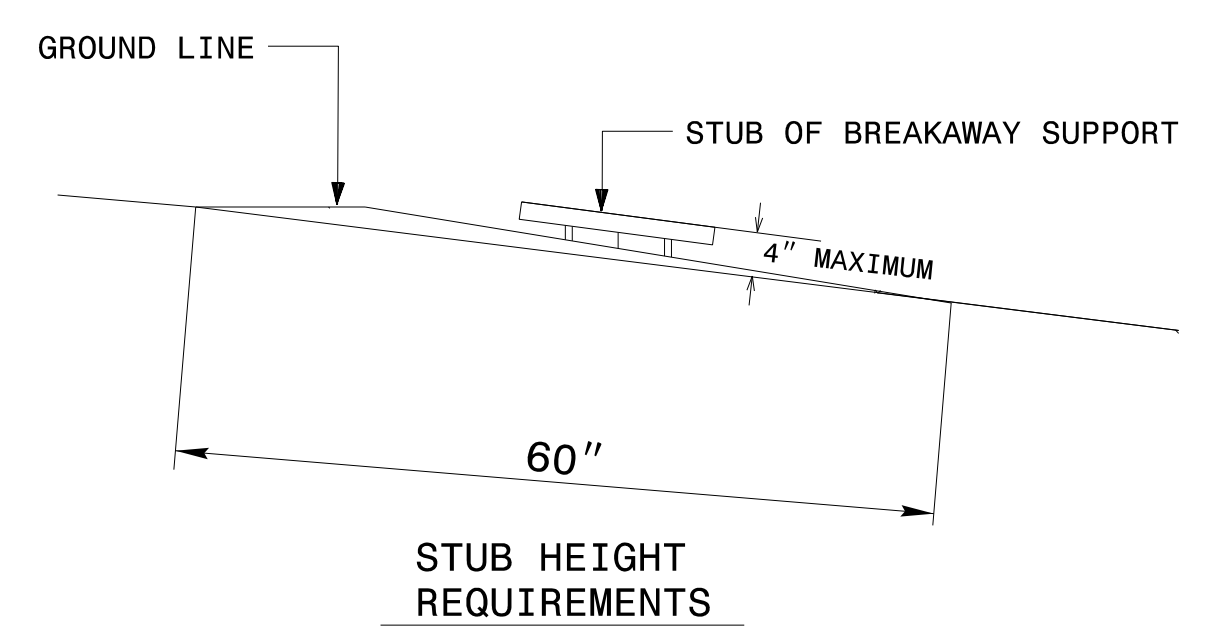
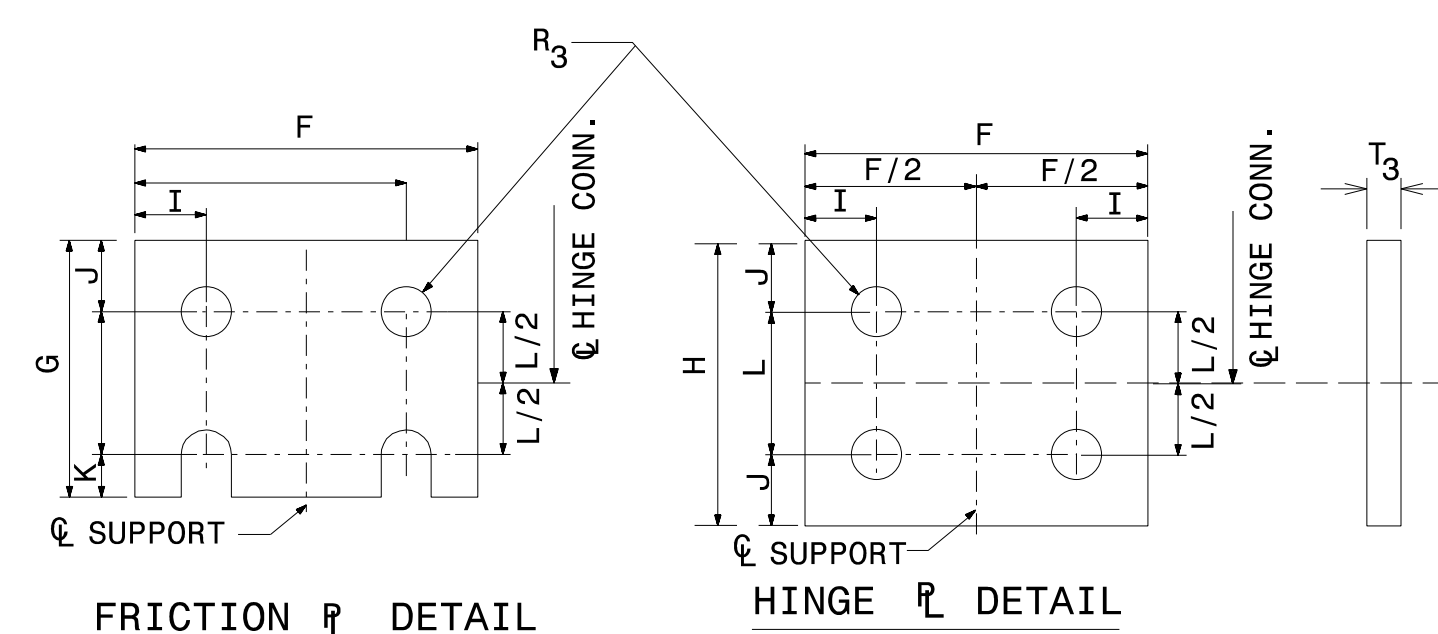
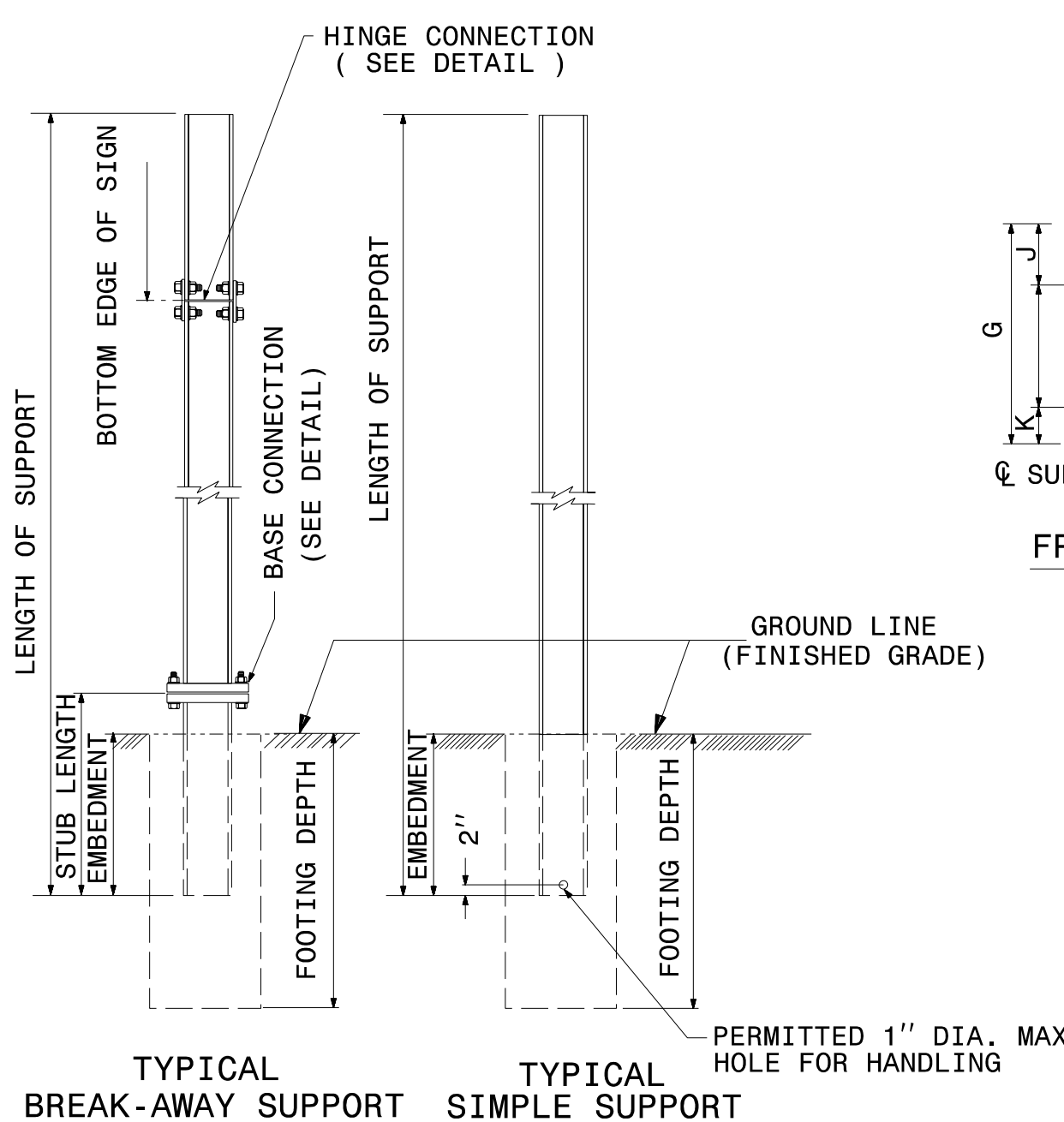
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 1 OF 3
903D10



SEE SHEET 2 OF 3 FOR
BASE CONNECTION DATA
HINGE CONNECTION DATA
& FOUNDATION DATA.
SEE SHEET 3 OF 3 FOR
GENERAL NOTES.

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

1-12

ENGLISH STANDARD DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 1 OF 3
903D10

10/28/2014 R:\Traffic\Signing\CADD\Signing Layout Plans\Additional Sheets.dgn User:lwj

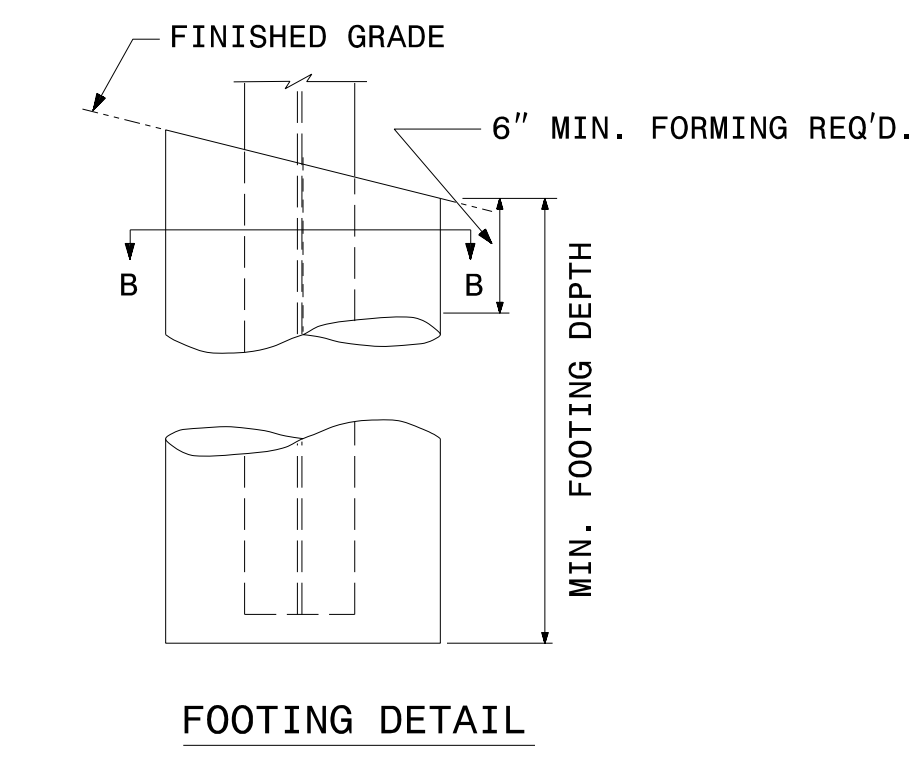
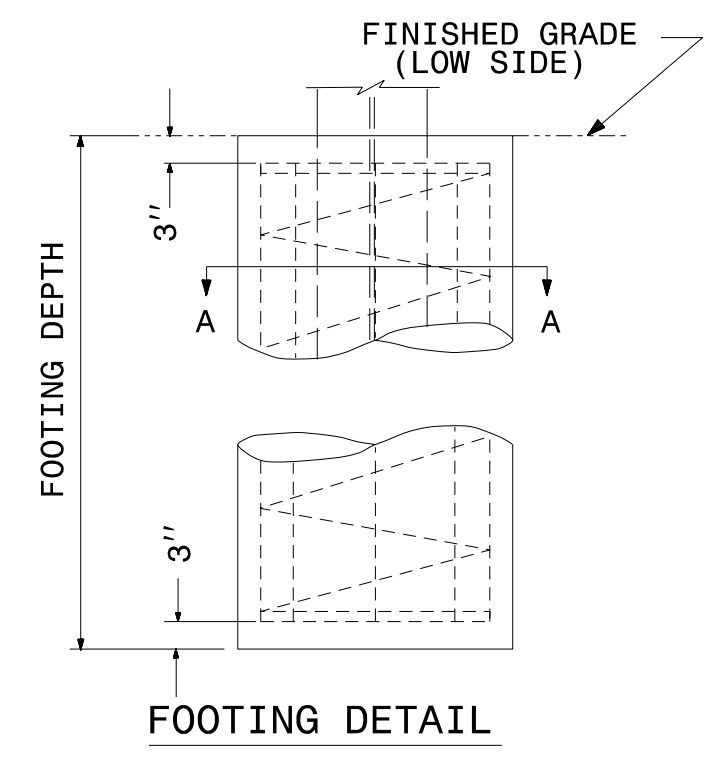
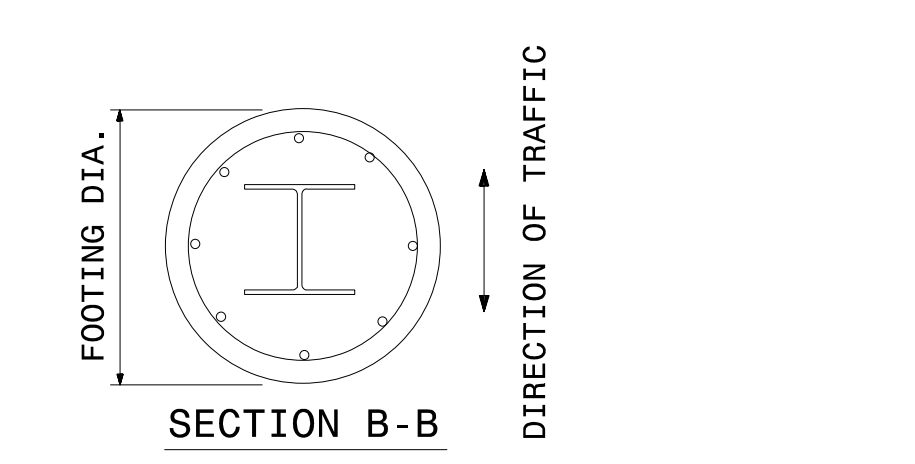
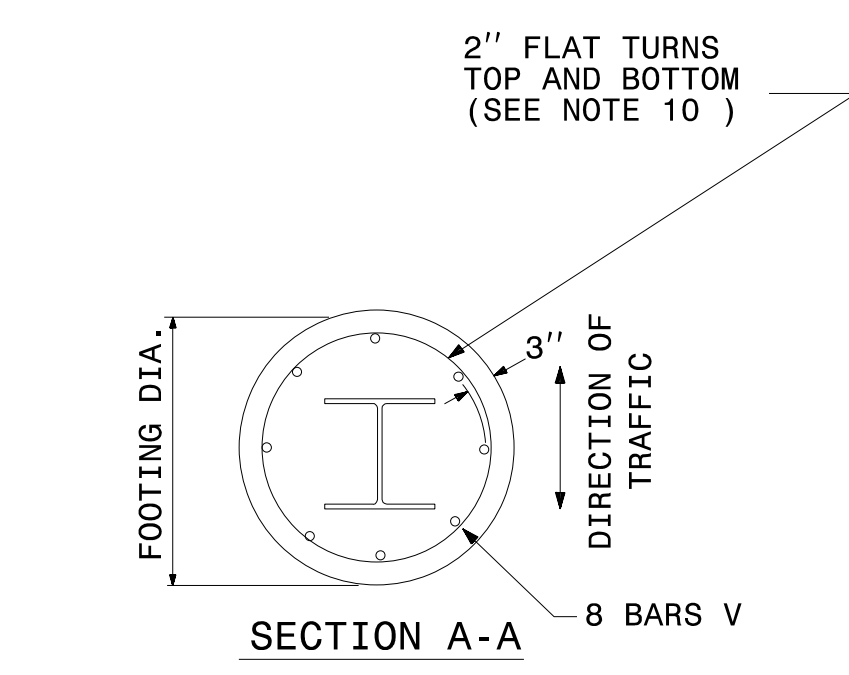


STATE OF NORTH CAROLINA
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RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

BEAM SHAPE	SLIP BASE PLATE DATA										KEEPER PLATE DATA						HINGE CONNECTION DATA										BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.
	BOLT SIZE	A ₁	B ₁	C ₁	D ₁	E ₁	T ₁	R ₁	A ₂	B ₂	C ₂	D ₂	E ₂	R ₂	T ₂	BOLT SIZE	F	G	H	I	J	K	L	R ₃	T ₃		
S3X5.7	1/2" DIA. X 3 1/4"	7"	4"	1"	3/4"	2 1/2"	1"	9/32"	7"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2" DIA. X 1 3/4"	2 1/4"	3 1/2"	4"	1 1/2"	1"	1 1/2"	2"	9/32"	3/8"	18	
S4X7.7	1/2" DIA. X 3 1/4"	8"	4"	1"	3/4"	2 1/2"	1"	9/32"	8"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2" DIA. X 1 3/4"	2 5/8"	3 1/2"	4"	1 1/2"	1"	1 1/2"	2"	9/32"	3/8"	20	
W6X9	1/2" DIA. X 3 1/4"	10"	5"	1"	3/4"	3 1/2"	1"	9/32"	10"	5"	1"	3/4"	3 1/2"	9/32"	28 GAUGE	1/2" DIA. X 1 3/4"	4"	3 1/2"	4"	3/4"	1"	1 1/2"	2"	9/32"	3/8"	32	
W6X12	5/8" DIA. X 4"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/4"	11/32"	11"	5"	1 1/4"	7/8"	3 1/4"	11/32"	28 GAUGE	5/8" DIA. X 2"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	11/32"	3/8"	39	
W6X16	5/8" DIA. X 4 1/2"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	11/32"	12"	6"	1 1/4"	7/8"	4 1/4"	11/32"	28 GAUGE	5/8" DIA. X 2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	11/32"	1/2"	47	
W8X18	5/8" DIA. X 4 1/2"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/2"	11/32"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	11/32"	28 GAUGE	5/8" DIA. X 2 1/4"	5 1/4"	4"	4 1/2"	1"	1 1/8"	5/8"	2 1/4"	11/32"	1/2"	70	
W8X21	3/4" DIA. X 4 1/2"	14"	7"	1 1/2"	1"	5"	1 1/2"	13/32"	14"	7"	1 1/2"	1"	5"	13/32"	28 GAUGE	3/4" DIA. X 2 1/2"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	1/2"	73	
W10X22	3/4" DIA. X 4 1/2"	16"	8"	1 1/2"	1"	6"	1 1/2"	13/32"	16"	8"	1 1/2"	1"	6"	13/32"	28 GAUGE	3/4" DIA. X 2 1/2"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	1/2"	119	
W10X26	3/4" DIA. X 5 1/2"	16 1/2"	8"	1 1/2"	1"	6"	1 3/4"	13/32"	16 1/2"	8"	1 1/2"	1"	6"	13/32"	28 GAUGE	3/4" DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	5/8"	140	
W12X26	3/4" DIA. X 5 1/2"	18 1/2"	9"	1 1/2"	1"	7"	1 3/4"	13/32"	18 1/2"	9"	1 1/2"	1"	7"	13/32"	28 GAUGE	3/4" DIA. X 2 3/4"	6 1/2"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	5/8"	176	
W14X30	1" DIA. X 6"	22"	9"	2"	1 1/2"	6"	2"	17/32"	22"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1" DIA. X 3"	6 3/4"	7"	8"	1 1/4"	2"	1"	4"	17/32"	5/8"	205	
W16X31	1" DIA. X 6"	24"	9"	2"	1 1/2"	6"	2"	17/32"	24"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1" DIA. X 3"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	223	
W18X35	1" DIA. X 6"	25"	9"	2"	1 1/2"	6"	2"	17/32"	25"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1" DIA. X 3"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	243	
W18X40	1" DIA. X 6 1/2"	26"	9"	2"	1 1/2"	6"	2 1/4"	17/32"	26"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1" DIA. X 3 1/2"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	278	
W21X44	1" DIA. X 7"	29"	9"	2"	1 1/2"	6"	2 1/2"	17/32"	29"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1" DIA. X 3 1/2"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	310	



FOUNDATION DATA *		
FOOTING DIAMETER	REINFORCEMENT	SPIRAL BAR
1'-6"	8 # 6 BARS	#3 BAR, 6" PITCH
2'	8 # 7 BARS	#3 BAR, 6" PITCH
2'-6"	8 # 9 BARS	#3 BAR, 6" PITCH
3'	8 # 11 BARS	#3 BAR, 6" PITCH
3'-6"	8 # 12 BARS	#3 BAR, 6" PITCH
4'	8 # 14 BARS	#3 BAR, 6" PITCH

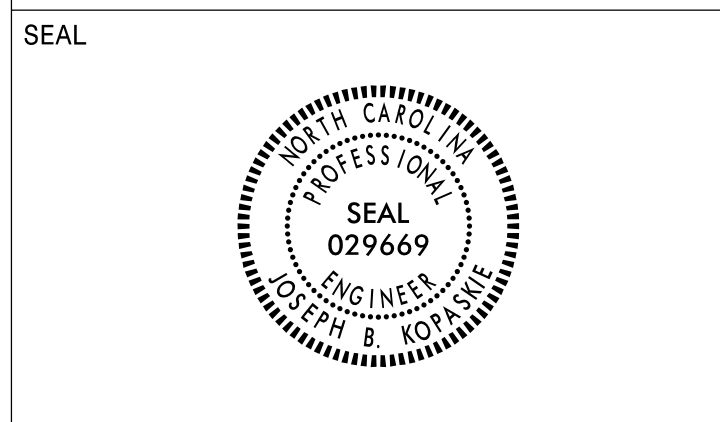
* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS

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

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

APPROVED: *Joseph B. Kopskie*
SCDREAEFB0454FA
 DATE: 10/29/2014



501

1 - 36" X 18"
 1 - 45" X 36"

ONE "U" POST PER SIGN

505 **-Y27-**

1 - 24" X 12"
 1 - 30" X 24"
 1 - 30" X 24"
 1 - 21" X 15"

ONE "U" POST PER SIGN

510 519 525 522

1 - 36" X 18"
 1 - 45" X 36"
 1 - 45" X 36"

ONE "U" POST PER SIGN

527 **-Y32-**

2 - 24" X 12"
 2 - 30" X 24"
 2 - 21" X 15"
 2 - 24" X 12"
 2 - 30" X 24"
 2 - 21" X 15"

TWO "U" POST PER SIGN

531

2 - 30" X 21"
 2 - 45" X 36"

TWO "U" POST PER SIGN

502

1 - 30" X 21"
 1 - 45" X 36"

ONE "U" POST PER SIGN

506

1 - 36" X 18"
 1 - 45" X 36"
 1 - 30" X 21"

ONE "U" POST PER SIGN

513

1 - 36" X 18"
 2 - 36" X 18"
 2 - 45" X 36"
 2 - 45" X 36"
 2 - 30" X 21"
 1 - 36" X 18"

TWO "U" POST PER SIGN

528 **-Y32-**

1 - 24" X 12"
 1 - 30" X 24"
 1 - 21" X 15"
 2 - 21" X 15"
 2 - 30" X 24"

TWO "U" POST PER SIGN

532

1 - 36" X 18"
 1 - 45" X 36"
 1 - 30" X 21"

ONE "U" POST PER SIGN

503 511 533

1 - 36" X 18"
 1 - 45" X 36"
 1 - 45" X 36"
 1 - 30" X 21"

ONE "U" POST PER SIGN

507 514 518

1 - 36" X 18"
 2 - 36" X 18"
 2 - 45" X 36"
 2 - 45" X 36"
 2 - 30" X 21"
 1 - 36" X 18"

TWO "U" POST PER SIGN

523

1 - 36" X 18"
 1 - 45" X 36"
 2 - 30" X 18"
 2 - 45" X 36"
 2 - 30" X 21"

TWO "U" POST PER SIGN

529 **-Y32-**

2 - 24" X 12"
 2 - 30" X 24"
 1 - 21" X 15"
 1 - 30" X 24"
 1 - 24" X 12"
 1 - 21" X 15"
 1 - 30" X 24"
 1 - 21" X 15"

TWO "U" POST PER SIGN

504

1 - 36" X 18"
 2 - 36" X 18"
 2 - 45" X 36"
 1 - 45" X 36"
 1 - 30" X 21"
 1 - 30" X 21"
 1 - 36" X 18"

TWO "U" POST PER SIGN

508 515 520

1 - 36" X 18"
 1 - 45" X 36"
 1 - 45" X 36"
 1 - 30" X 21"

ONE "U" POST PER SIGN

524

2 - 36" X 18"
 2 - 45" X 36"
 2 - 30" X 21"
 2 - 36" X 18"
 2 - 45" X 36"
 2 - 30" X 21"

TWO "U" POST PER SIGN

530

1 - 36" X 18"
 1 - 45" X 36"
 1 - 30" X 21"
 2 - 36" X 18"
 2 - 45" X 36"
 2 - 30" X 21"
 2 - 36" X 18"
 2 - 45" X 36"
 2 - 30" X 21"

TWO "U" POST PER SIGN

509 512 517 521

1 - 30" X 24"
 1 - 45" X 36"
 1 - 45" X 36"

ONE "U" POST PER SIGN

526 **-Y32-**

1 - 24" X 12"
 1 - 30" X 24"
 2 - 21" X 15"
 2 - 30" X 24"

TWO "U" POST PER SIGN

TYPE "F" SIGNS

*****SYSTEMS*****
 *****SERIALS*****
 *****SOFTWARE*****

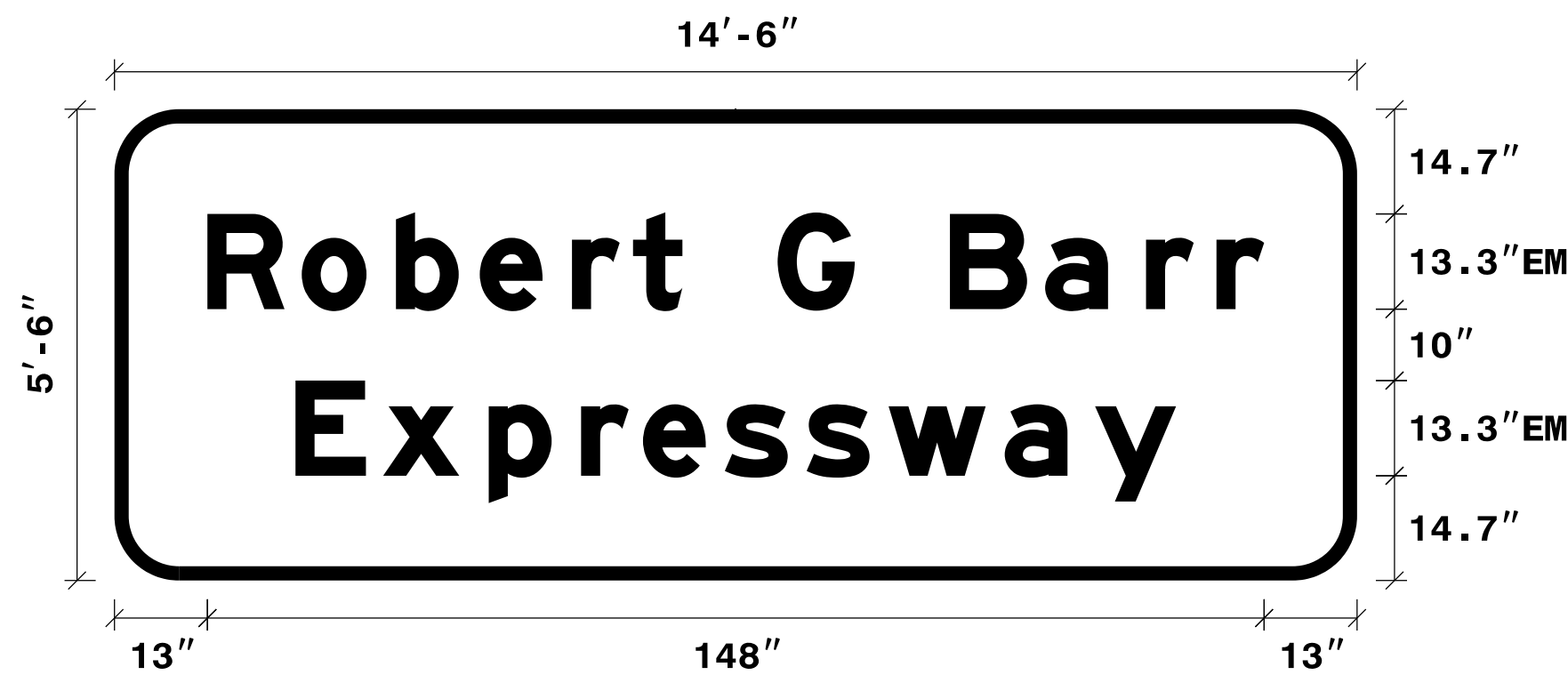
SIGN NUMBER: 101 & 103
 TYPE: A
 QUANTITY: 2
 SIGN WIDTH: 14'-6"
 HEIGHT: 5'-6"
 TOTAL AREA: 79.8 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 9"
 NO. Z BARS: 2
 LENGTH: 166.0

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R Drayton
 PROJECT ID: R-2915D
 CHECKED BY: J Kopaskie
 DIV: 11
 DATE: Oct 23, 2014



- USE NOTES: 1 & 2
- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size	
															Text Length	
	R	o	b	e	r	t	G	B	a	r	r					EM 2000
13	13.2	13.2	11.7	12.9	8.5	6.9	13.3	10.8	13.3	13.3	14.1	9.9	6.7	13	148	
	E	x	p	r	e	s	s	w	a	y						EM 2000
25.3	12.3	14.8	12.9	8.7	11.5	11.5	11.5	16.3	12.7	11.3	25.3					123.3

FILENAME: Updated Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

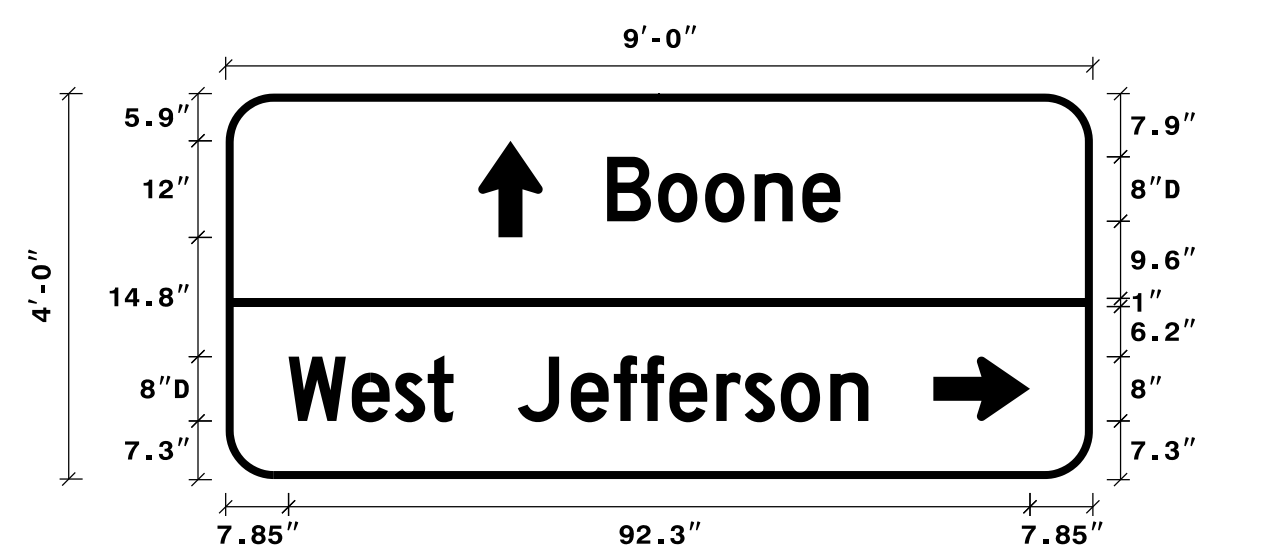
SIGN NUMBER: 104
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 4'-0"
 TOTAL AREA: 36.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 100.0

BACKG COLOR: Green / Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
AR_Type D	31.5	30.1	8	12
AR_Type D	88.1	7.2	8	12

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: R Drayton
 PROJECT ID: R-2915D
 CHECKED BY: J Kopaskie
 DIV: 11
 DATE: Oct 23, 2014



- USE NOTES: 1, 2, & 3
- Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size	
															Text Length	
	B	o	o	n	e											D 2000
47.5	6.3	5.9	6.2	5.9	4.7	31.5										29
	W	e	s	t	J	e	f	f	e	r	s	o	n			D 2000
7.8	7.9	5.4	4.1	3.2	8	6.6	5.4	3.4	3.5	5.9	3.5	4.5	6.2	4.7	28	72.2

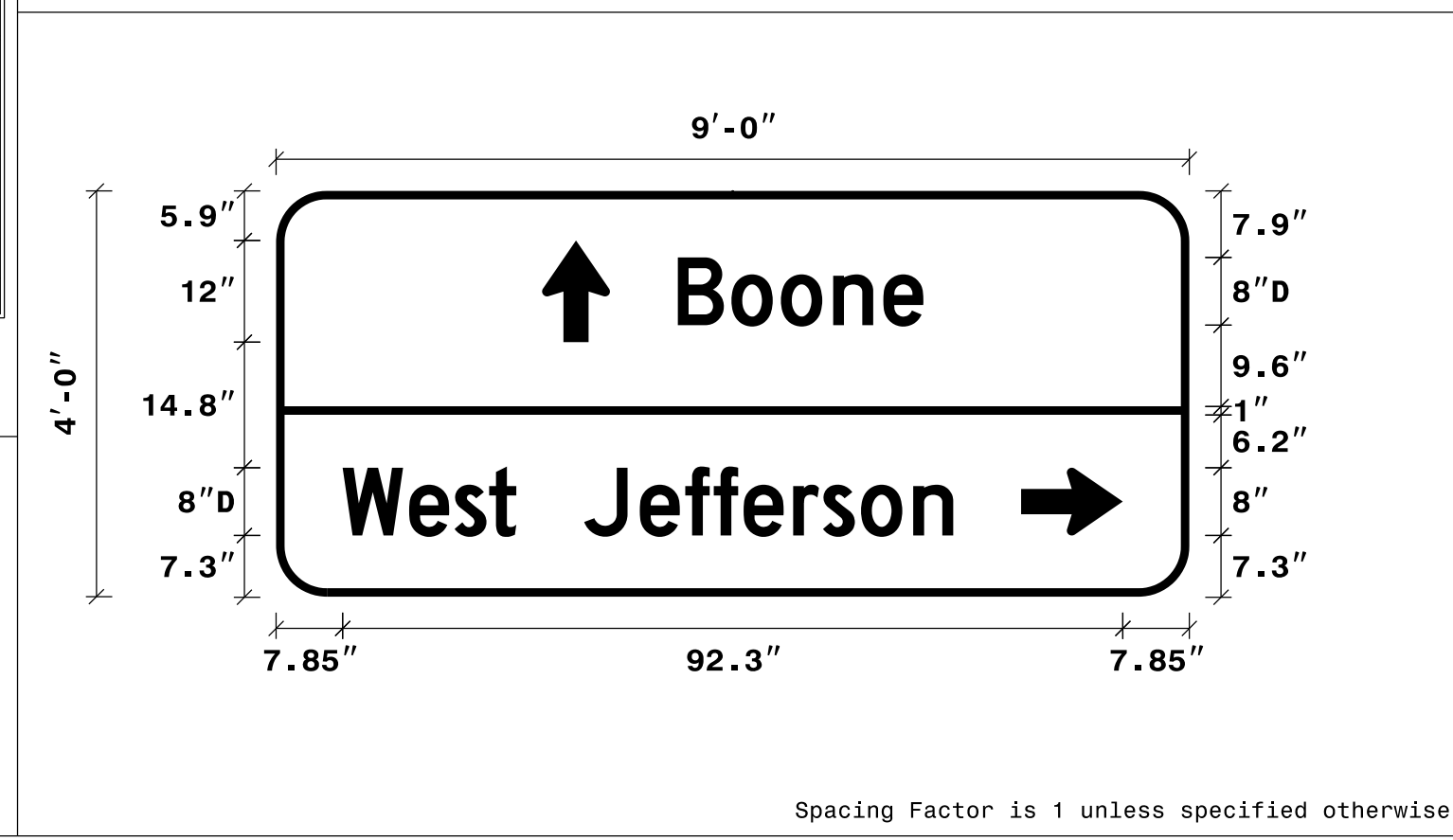
FILENAME: Updated Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$\$\$\$DGN\$\$\$\$\$
 \$\$\$\$\$\$DATE\$\$\$\$\$

SIGN NUMBER: 104 BACKG COLOR: Green / Green
 TYPE: B COPY COLOR: White
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 4'-0"
 TOTAL AREA: 36.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2 MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH: 100.0

SYMBOL	X	Y	WID	HT
AR_Type D	31.5	30.1	8	12
AR_Type D	88.1	7.2	8	12

DESIGN BY: R Drayton CHECKED BY: J Kopaskie DATE: Oct 23, 2014
 PROJECT ID: R-2915D DIV: 11



USE NOTES: 1, 2, & 3
 1. Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size	
															Text Length	
	B	o	o	n	e											D 2000
47.5	6.3	5.9	6.2	5.9	4.7	31.5										29
	W	e	s	t	J	e	f	f	e	r	s	o	n			D 2000
7.9	7.9	5.4	4.1	3.2	8	6.6	5.4	3.4	3.5	5.9	3.5	4.5	6.2	4.7	27.9	72.2

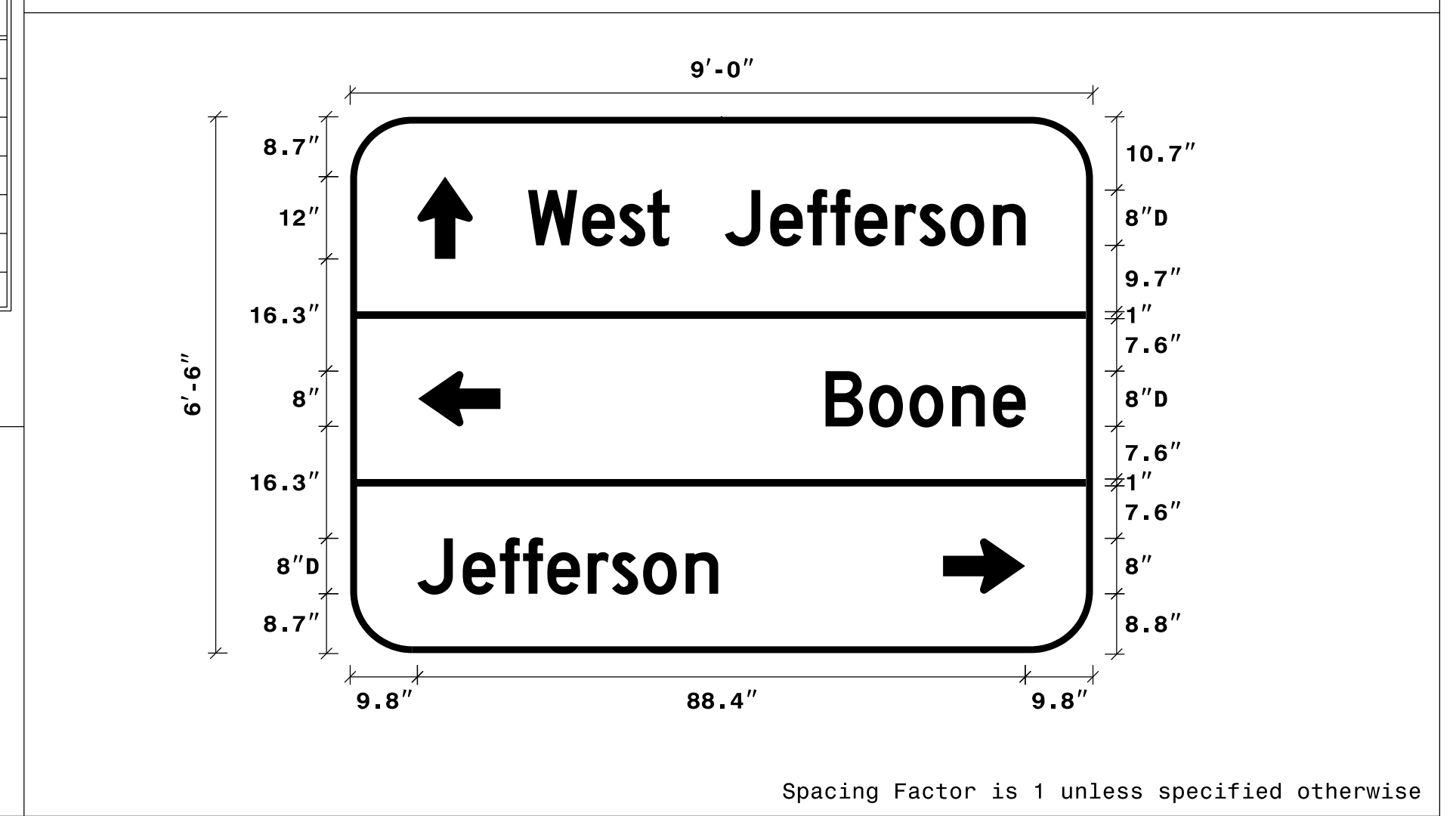
FILENAME: Updated Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 105 BACKG COLOR: Green/Green/Green
 TYPE: A COPY COLOR: White
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 6'-6"
 TOTAL AREA: 58.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 9"
 NO. Z BARS: 2 MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH: 100.0

SYMBOL	X	Y	WID	HT
AR_Type D	9.8	57.3	8	12
AR_Type D	9.9	33	8	12
AR_Type D	86.2	8.6	8	12

DESIGN BY: R Drayton CHECKED BY: J Kopaskie DATE: Oct 23, 2014
 PROJECT ID: R-2915D DIV: 11

USE NOTES: 1, 2, & 3
 1. Legend and border(except those that are colored black) shall be direct applied Grade B sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.

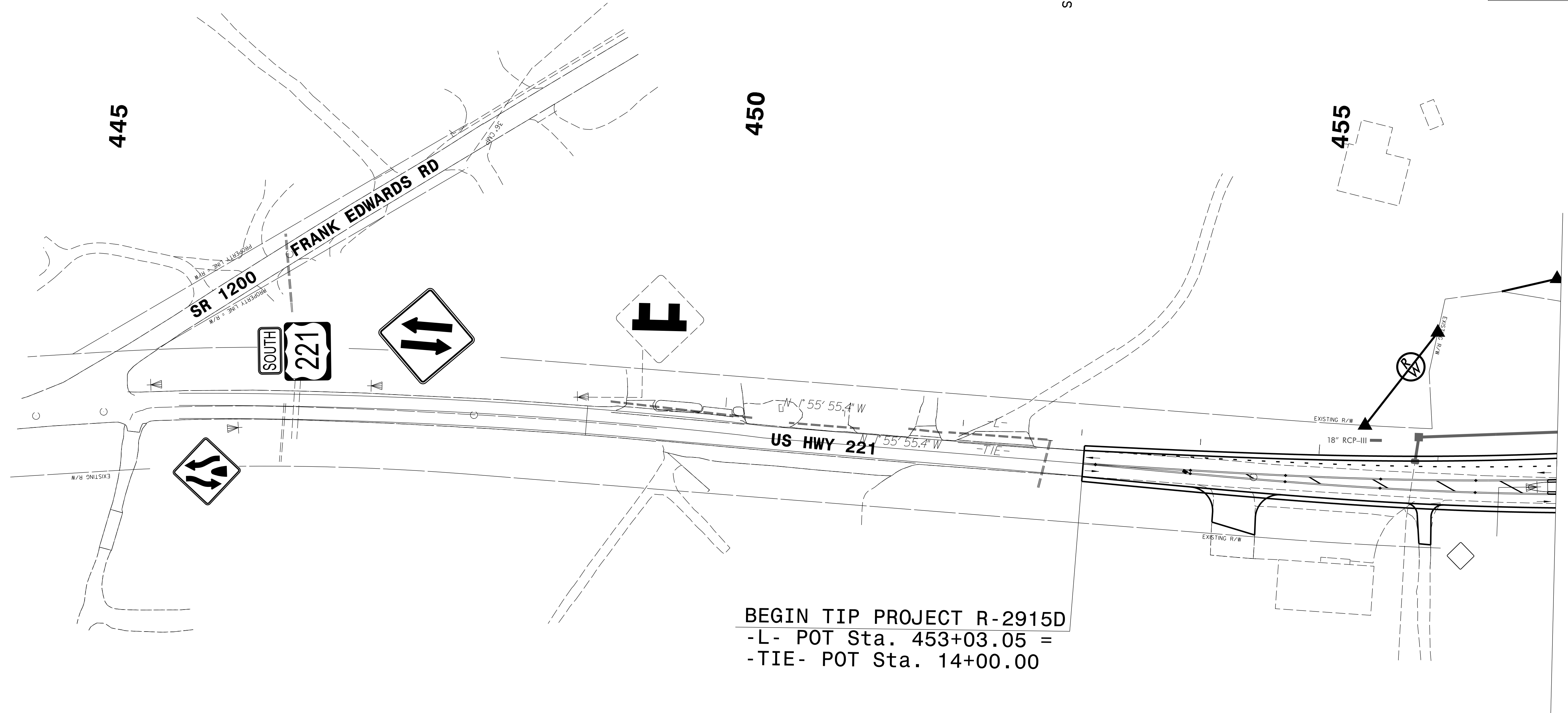
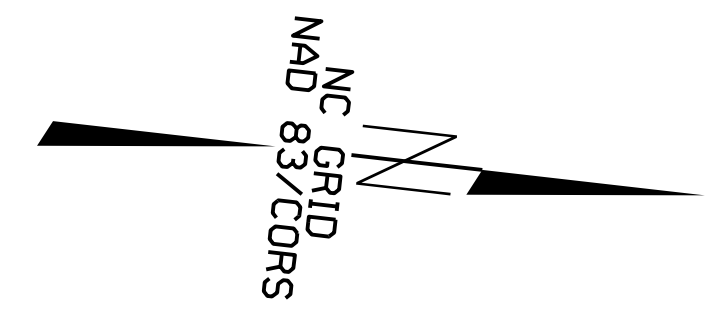


LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size	
															Text Length	
	W	e	s	t	J	e	f	f	e	r	s	o	n			D 2000
25.9	7.9	5.4	4.1	3.2	8	6.6	5.4	3.4	3.5	5.9	3.5	4.5	6.2	4.7	9.8	72.4
	B	o	o	n	e											D 2000
69.1	6.4	5.9	6.2	6	4.7	9.8										29.1
	J	e	f	f	e	r	s	o	n							D 2000
9.8	6.6	5.4	3.4	3.5	5.9	3.5	4.5	6.2	4.7	54.5					43.7	

FILENAME: Updated Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

\$\$\$\$\$SYTIME\$\$\$\$\$
 \$\$\$DGN\$\$\$\$\$
 \$\$\$DRAWING\$\$\$\$\$

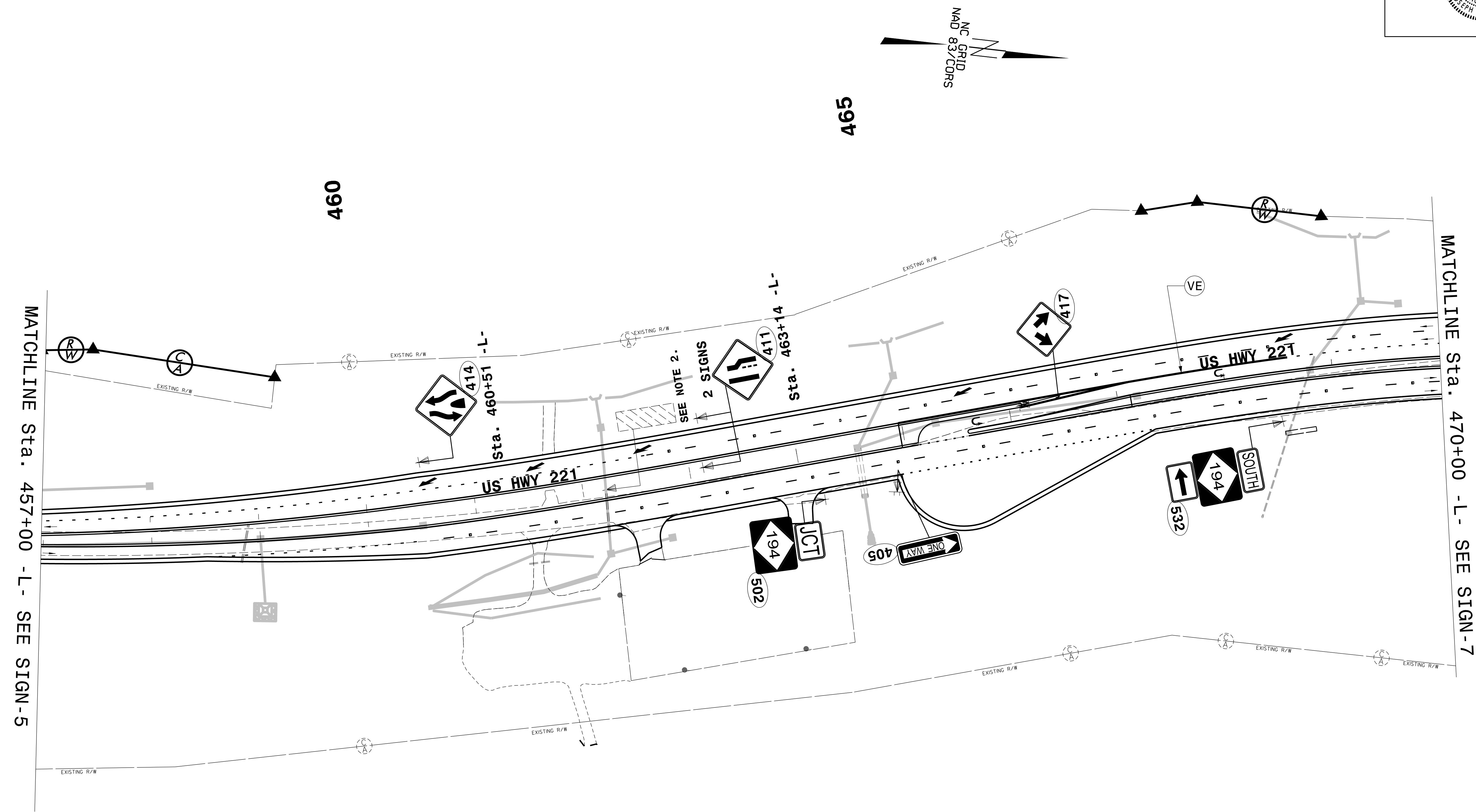


BEGIN TIP PROJECT R-2915D
 -L- POT Sta. 453+03.05 =
 -TIE- POT Sta. 14+00.00

MATCHLINE Sta. 457+00 -L- SEE SIGN-6

**EXISTING & PROPOSED
SIGNING DETAIL**

SYTIME
 CON
 USERNAME
 DUSER
 DUSER



MATCHLINE Sta. 457+00 -L- SEE SIGN-5

MATCHLINE Sta. 470+00 -L- SEE SIGN-7

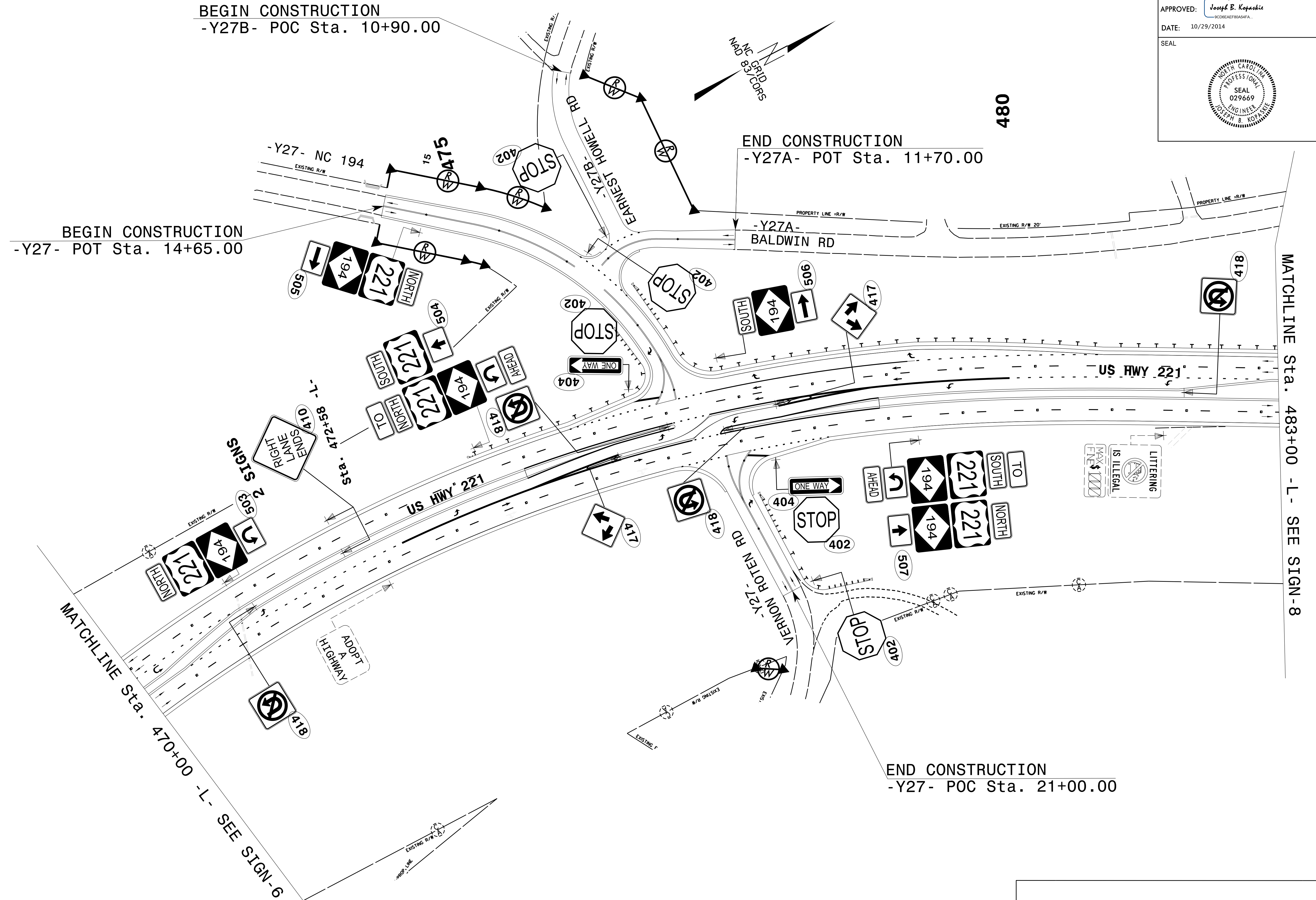
NOTE

2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**EXISTING & PROPOSED
SIGNING DETAIL**

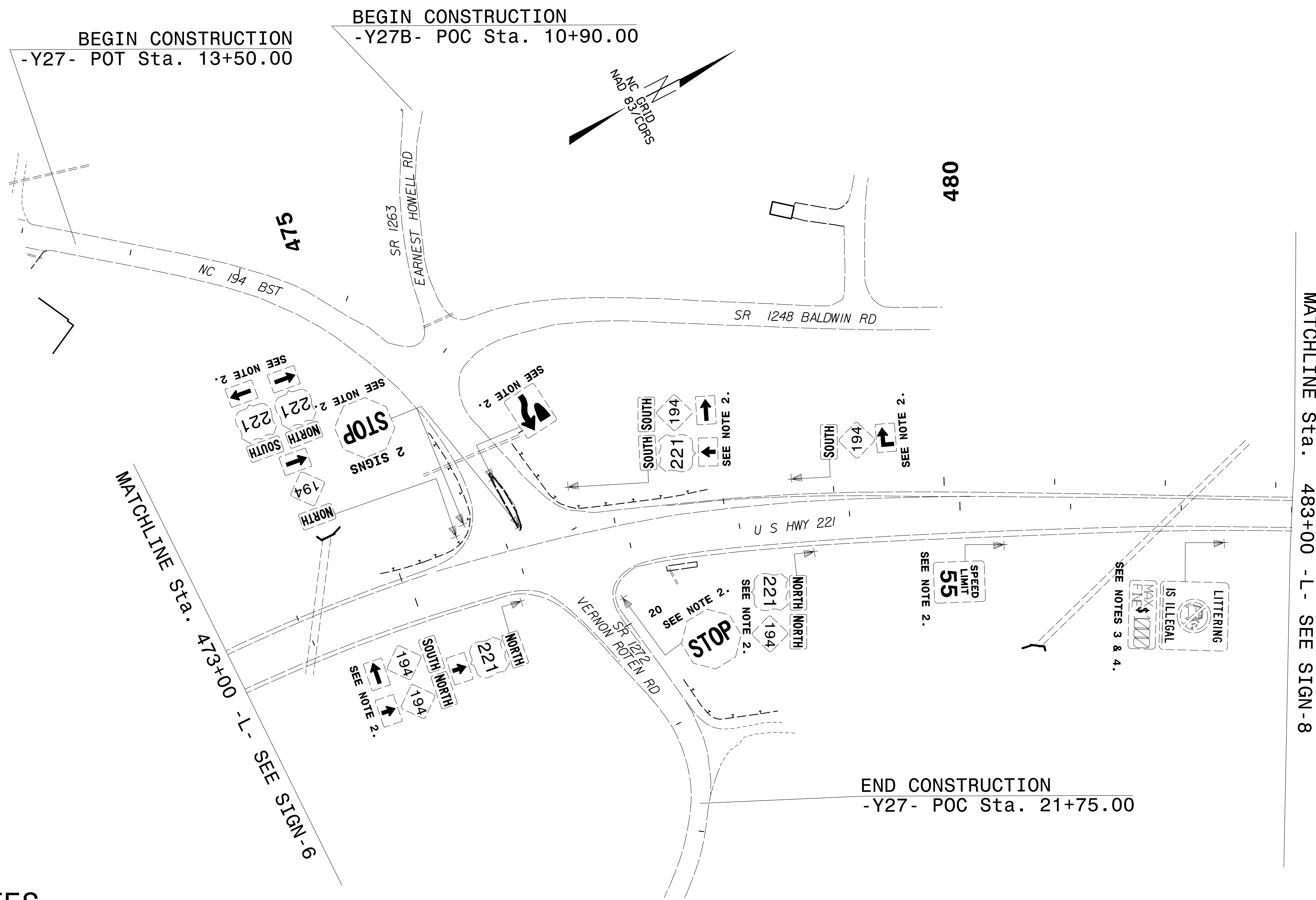
SYTIME\$\$\$\$
 DUNDUSERNAME\$\$\$\$
 DUNDUSERNAME\$\$\$\$

TIP NO. R-2915D	SHEET NO. SIGN-7
APPROVED: <i>Joseph B. Kopaskie</i> SC0296690454FA	
DATE: 10/29/2014	
SEAL	



PROPOSED SIGNING DETAIL

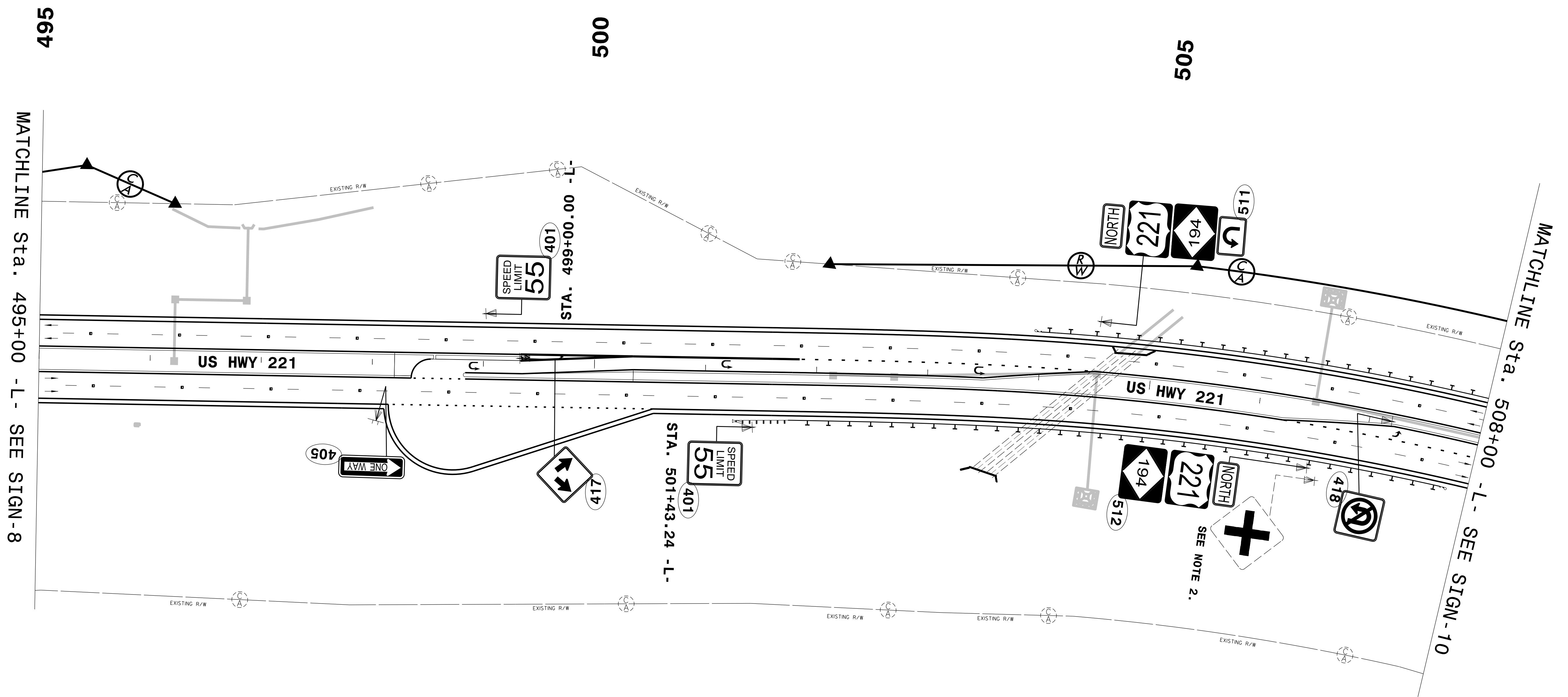
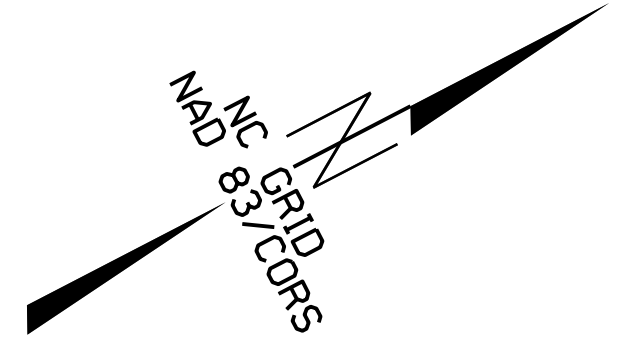
SYTIME\$\$\$\$
 DCON\$\$\$\$
 USERNAME\$\$\$\$



NOTES

- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 3. SIGN ERECTION, RELOCATE SIGN TYPE E
- 4. DISPOSAL OF SUPPORT, U-CHANNEL

EXISTING SIGN DETAIL

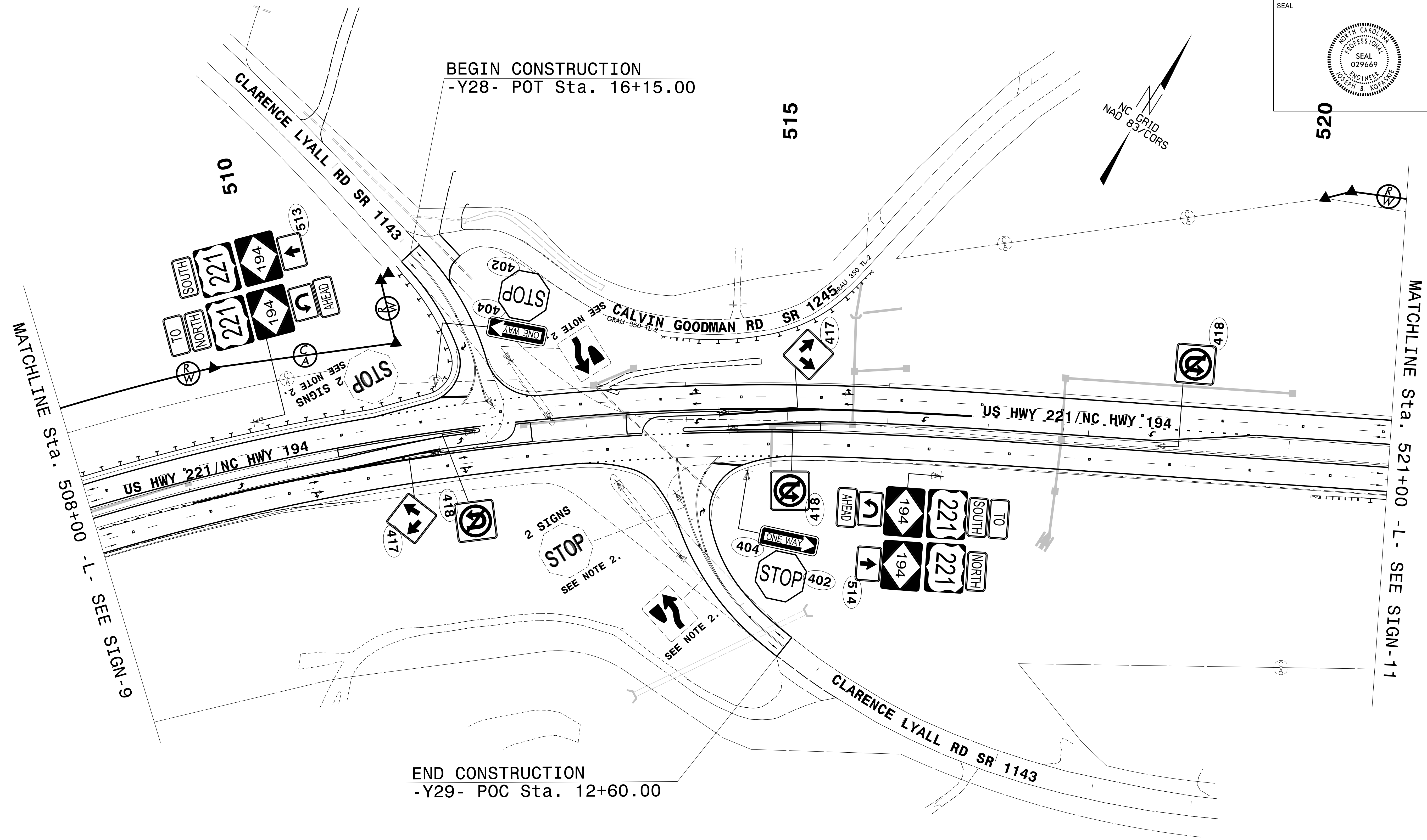
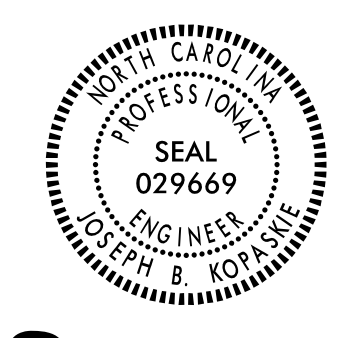


NOTE

2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**EXISTING & PROPOSED
SIGNING DETAIL**

SYTIME\$\$\$\$
 DNDN\$\$\$\$
 DUSERNAME\$\$\$\$

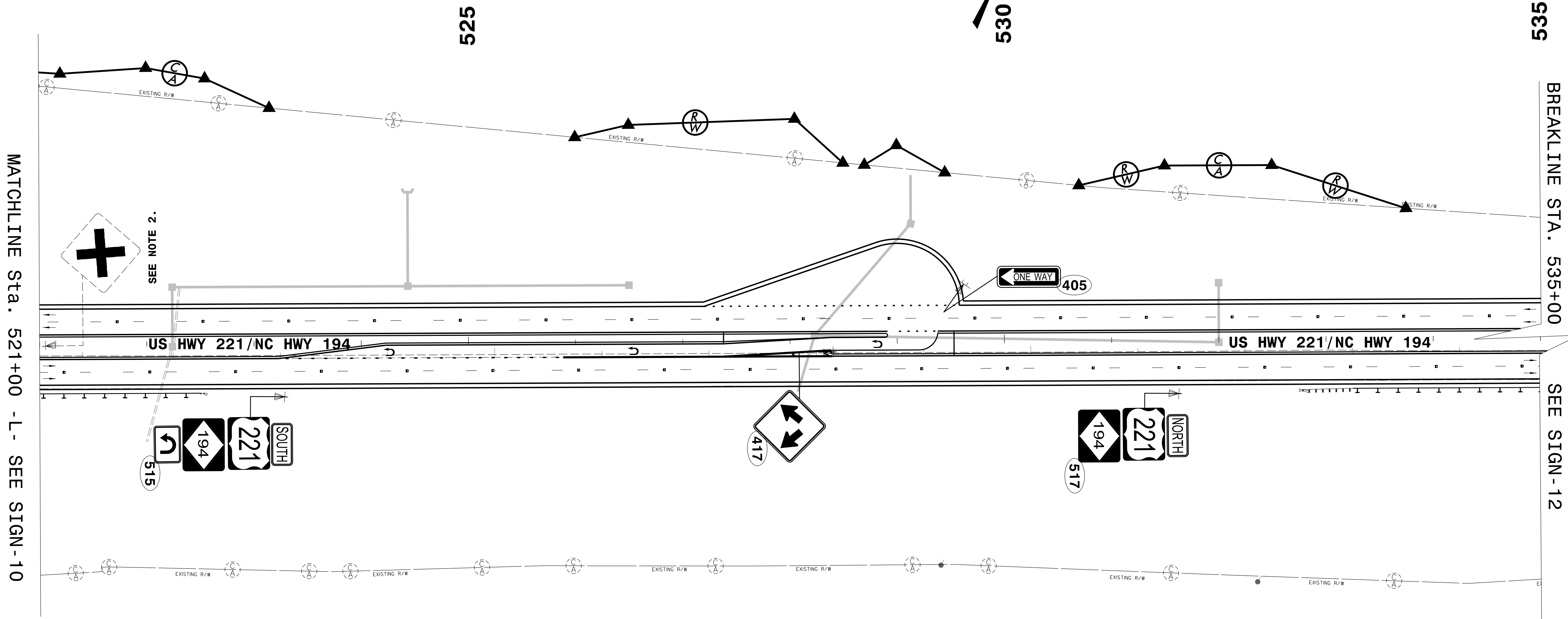


NOTE

2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**EXISTING & PROPOSED
SIGNING DETAIL**

SYTIME\$\$\$\$
CONDN\$\$\$\$
DUSERNAME\$\$\$\$

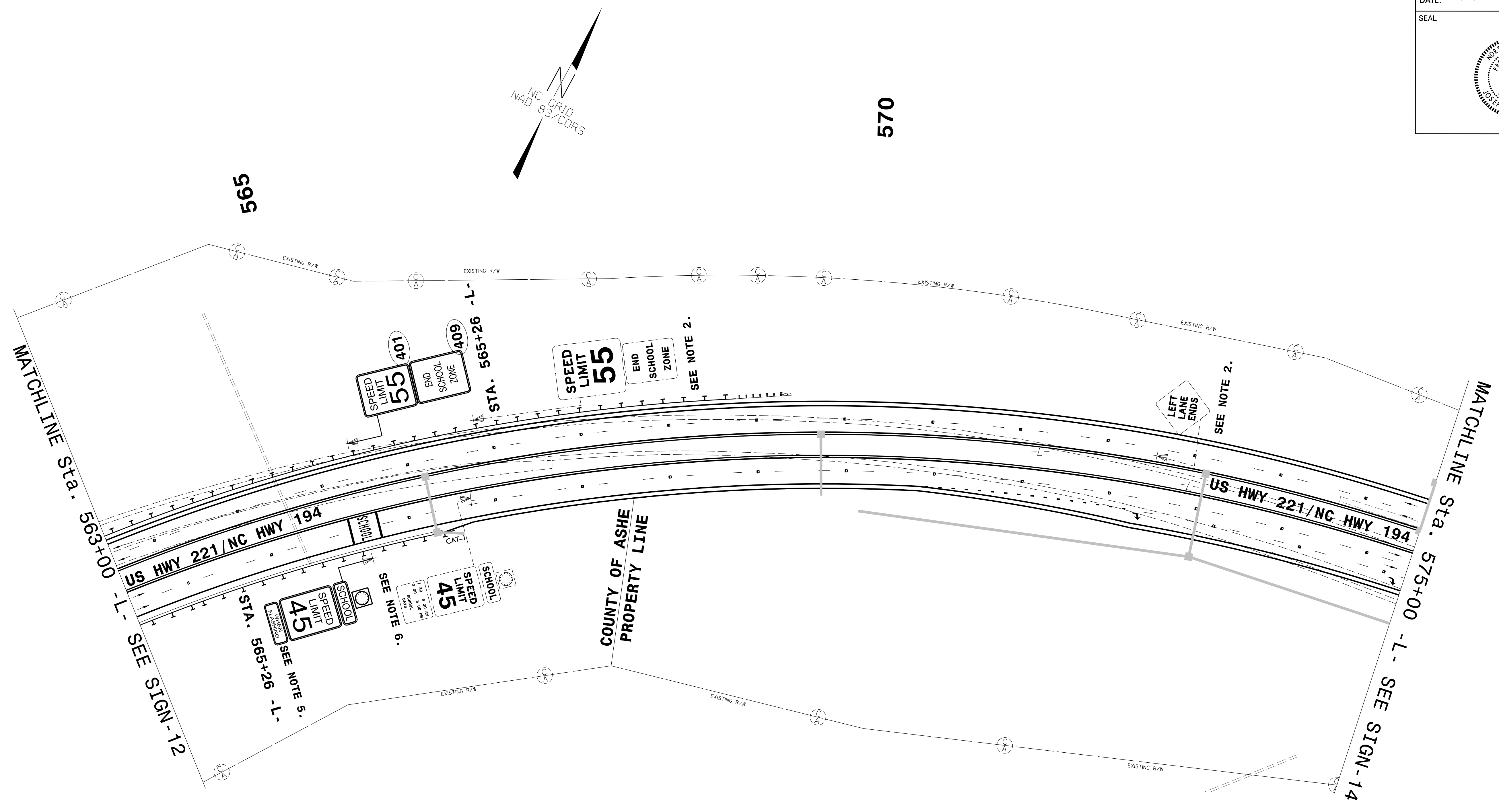


NOTE

2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**EXISTING & PROPOSED
SIGNING DETAIL**

\$\$\$\$\$\$SYTIME\$\$\$\$\$\$
 \$\$\$\$\$\$CONDOR\$\$\$\$\$\$
 \$\$\$\$\$\$USERNAME\$\$\$\$\$\$
 \$\$\$\$\$\$\$\$\$\$\$\$

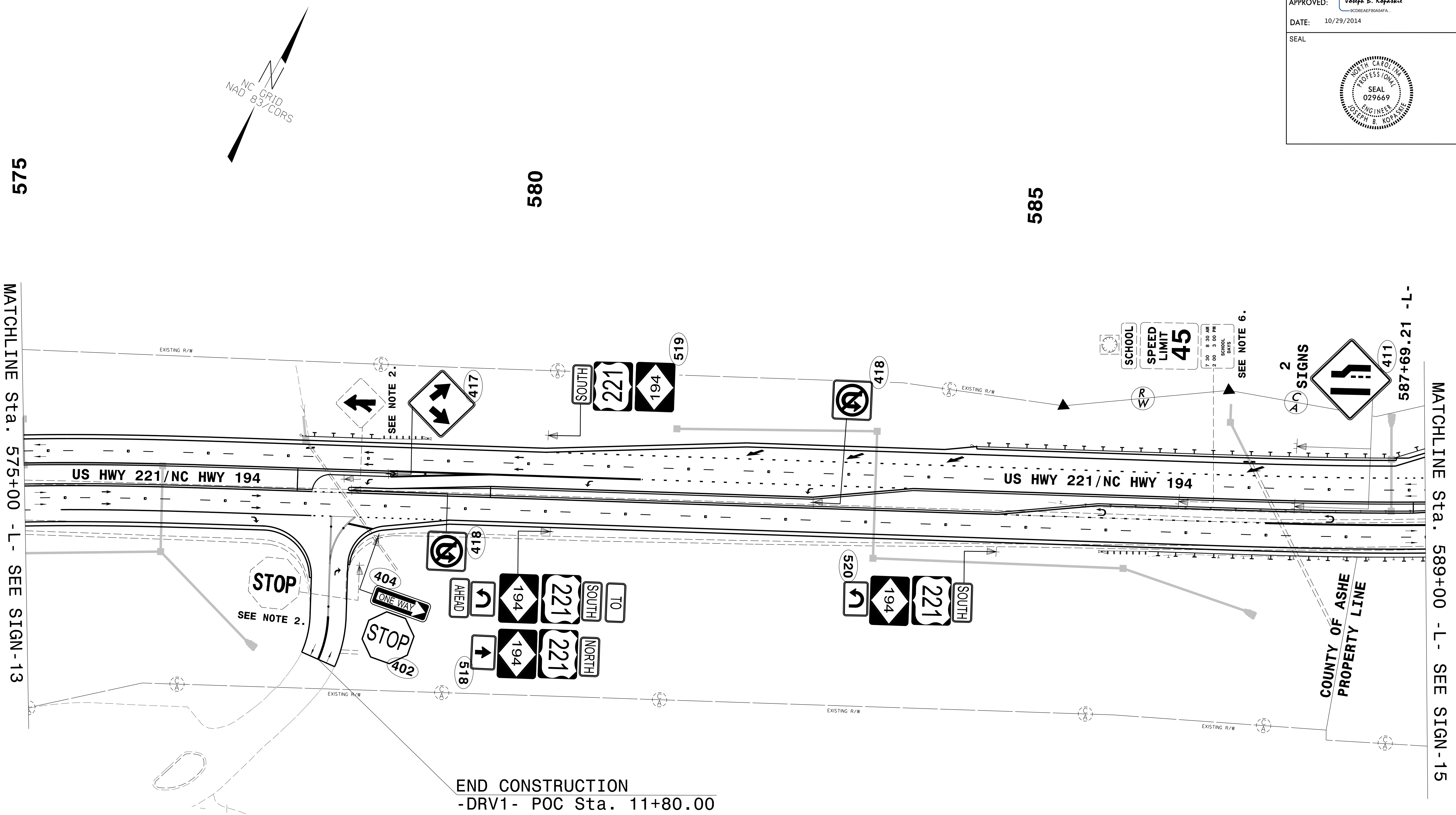


NOTE

- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 5. INSTALLED BY STATE FORCES
- 6. DISPOSAL OF SIGN, D, E OR F

**EXISTING & PROPOSED
SIGNING DETAIL**

SYTIME\$\$\$\$
 DOWN\$\$\$\$
 USERNAME\$\$\$\$



575
MATCHLINE Sta. 575+00 - L - SEE SIGN-13

580

585

589+00 - L - SEE SIGN-15
587+69.21 - L -

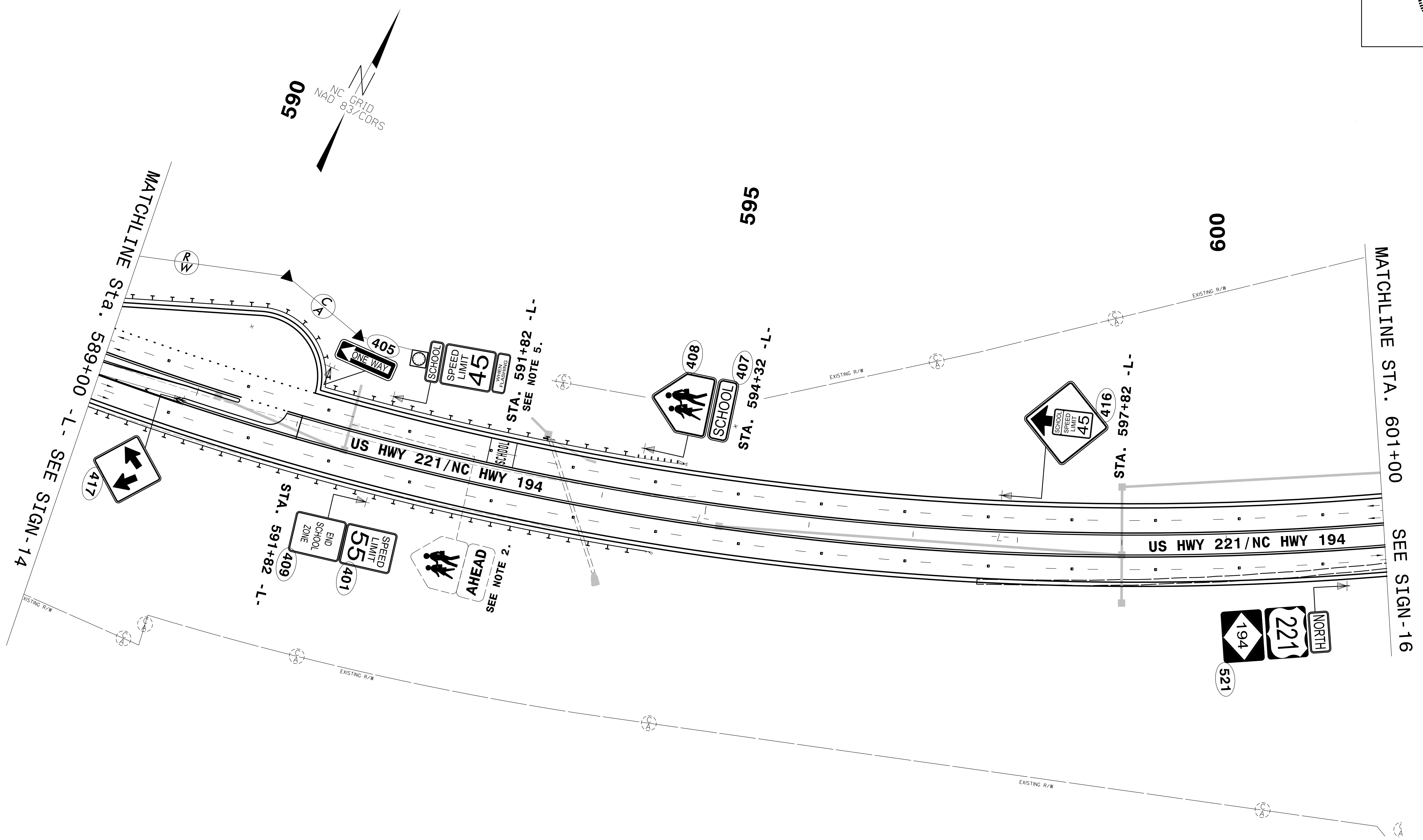
END CONSTRUCTION
-DRV1- POC Sta. 11+80.00

NOTE

- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 6. DISPOSAL OF SIGN, D, E OR F

**EXISTING & PROPOSED
SIGNING DETAIL**

\$\$\$SYTIME\$\$\$
\$\$\$CDN\$\$\$
\$\$\$DUSERNAME\$\$\$


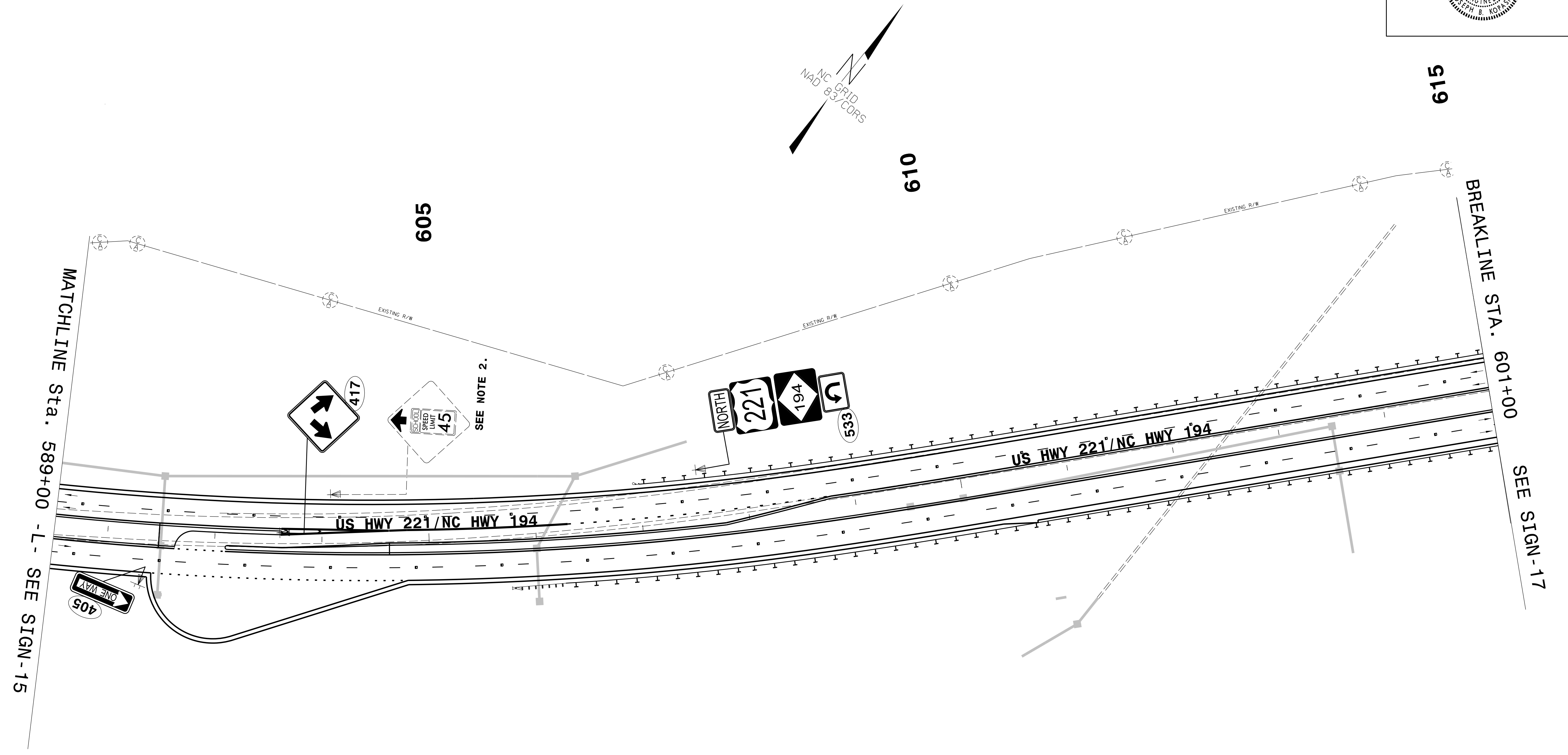


- NOTE**
- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
 - 5. INSTALLED BY STATE FORCES

**EXISTING & PROPOSED
SIGNING DETAIL**

\$\$\$SYTIME\$\$\$
 \$\$\$CDN\$\$\$
 \$\$\$USERNAME\$\$\$

TIP NO. R-2915D	SHEET NO. SIGN-16
APPROVED: <i>Joseph B. Kopaskie</i> <small>9C00EAEF80A54FA</small>	
DATE: 10/29/2014	
SEAL	


NOTE

2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

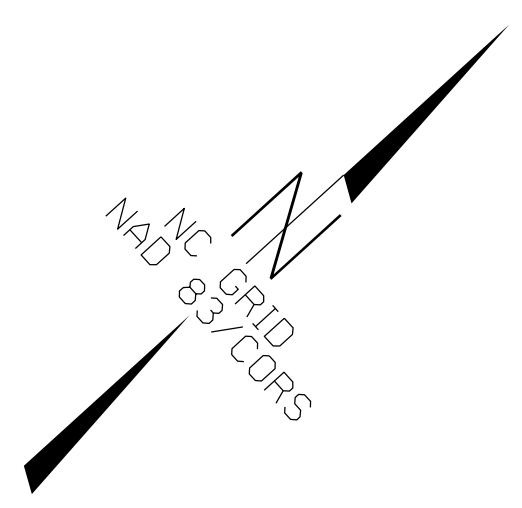
**EXISTING & PROPOSED
SIGNING DETAIL**

SYTIME
DUN
USERNAME

TIP NO. R-2915D	SHEET NO. SIGN-17
APPROVED: <i>Joseph E. Kopaskie</i> SC06EAEF80AS4FA	
DATE: 10/29/2014	
SEAL	

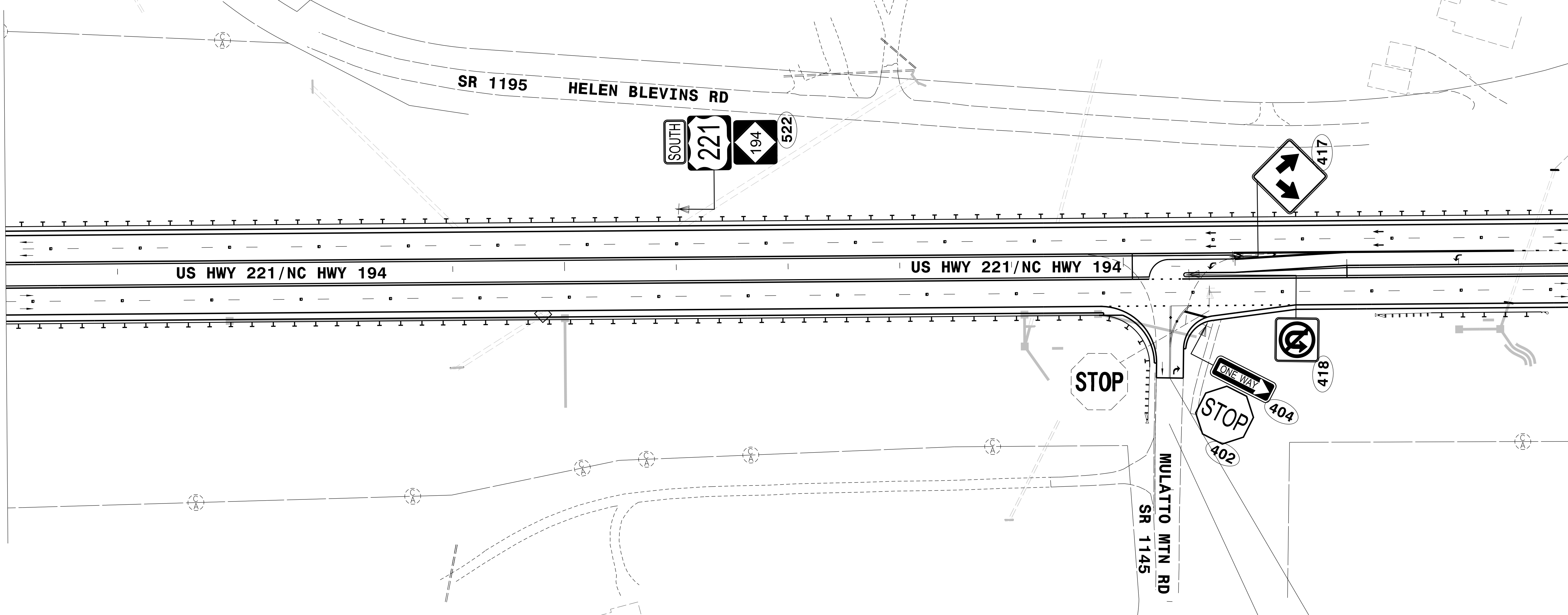


615
BREAK LINE STA. 615+00 SEE SIGN-16



620

625



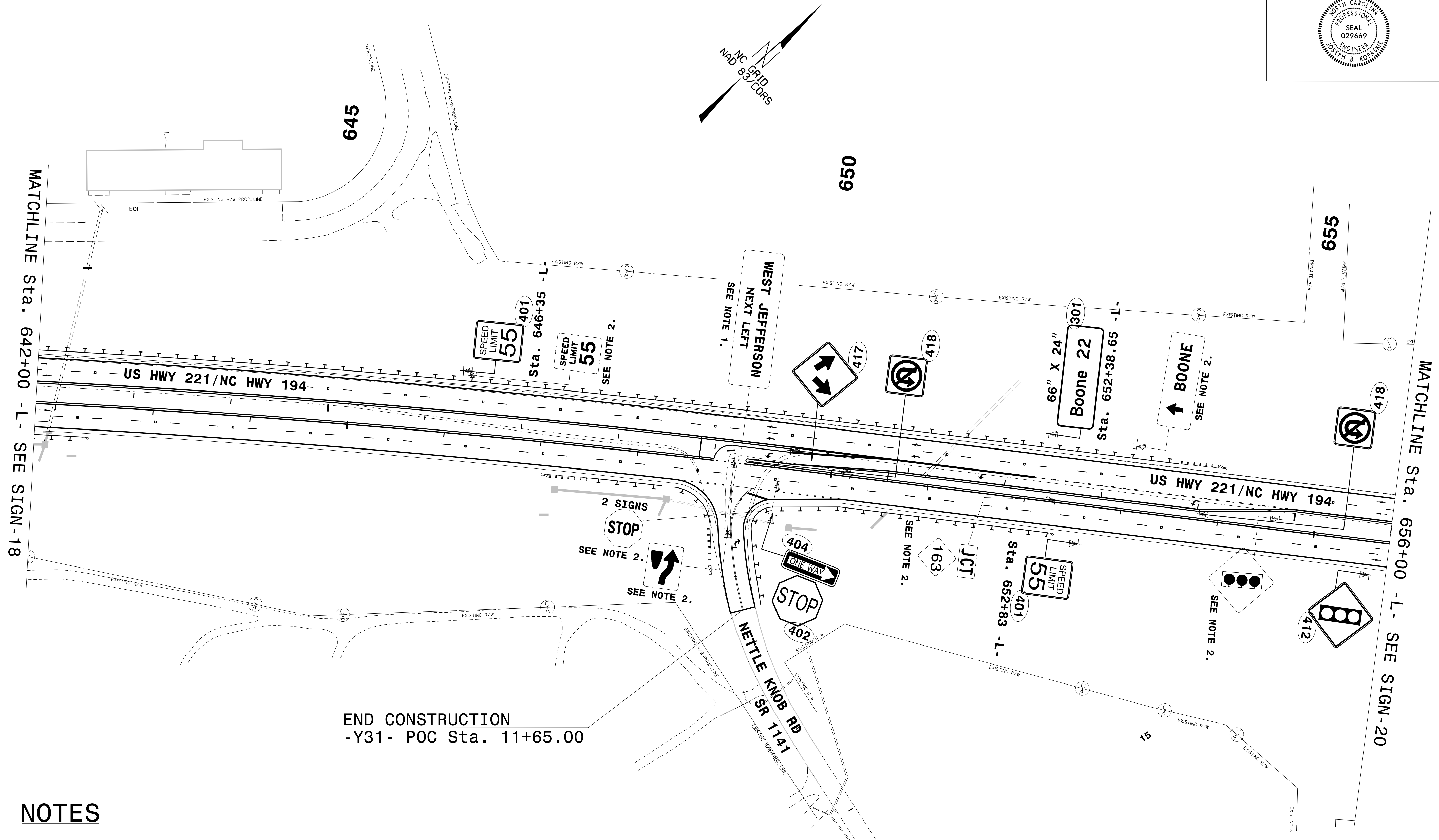
MATCHLINE Sta. 629+00 - L- SEE SIGN-18

END PAVEMENT
-Y30- POT Sta. 11+00.00

END CONSTRUCTION
-Y30- POT Sta. 11+41.00

**EXISTING & PROPOSED
SIGNING DETAIL**

\$\$\$SYTIME\$\$\$
\$\$\$COND\$\$\$
\$\$\$DUSERNAME\$\$\$
\$\$\$\$\$\$



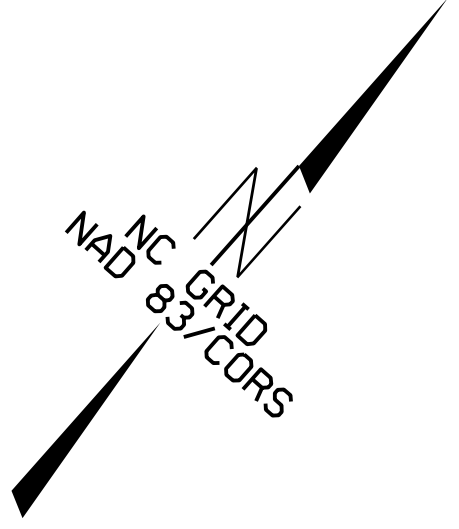
END CONSTRUCTION
-Y31- POC Sta. 11+65.00

NOTES

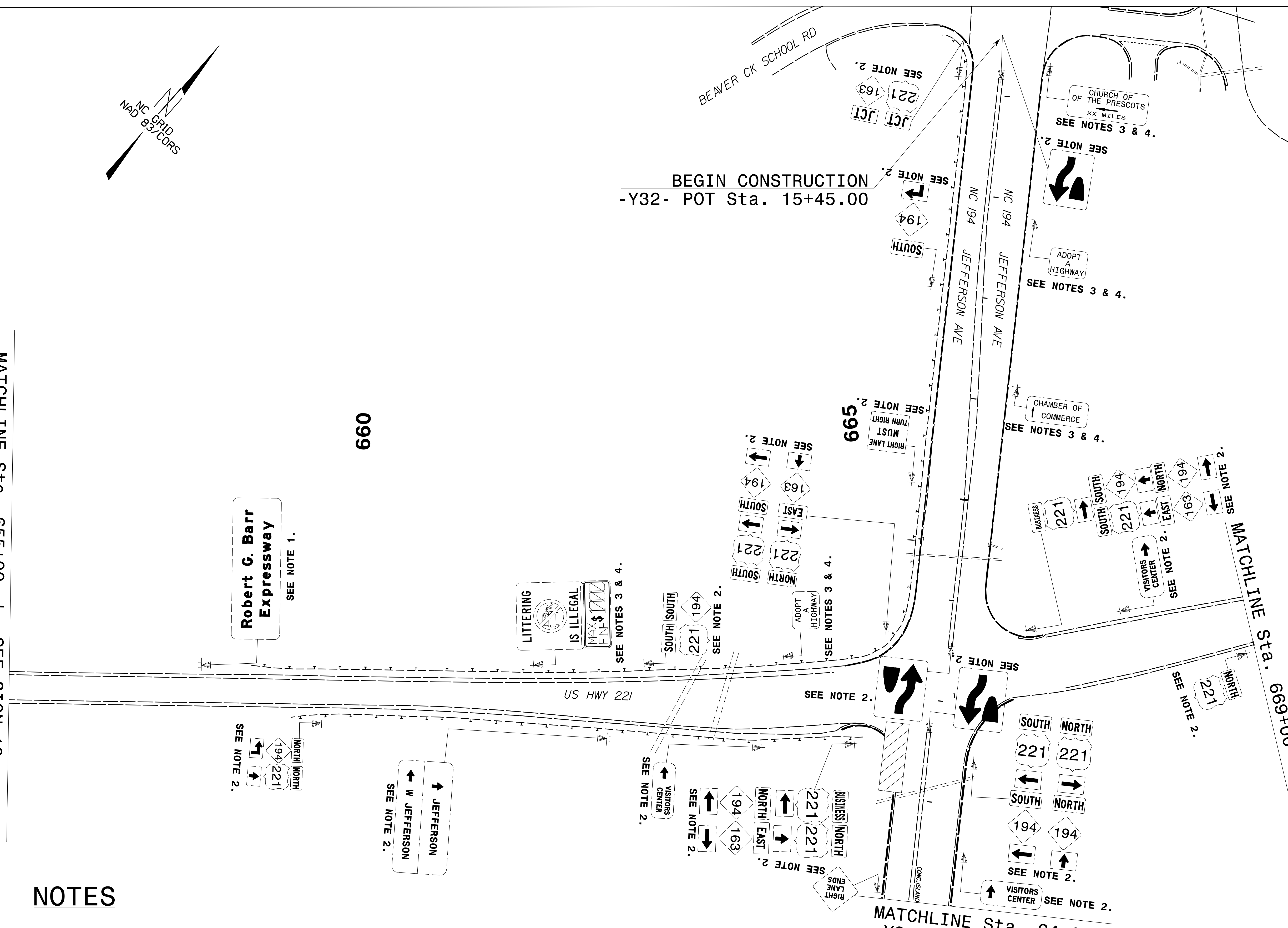
1. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**EXISTING & PROPOSED
SIGNING DETAIL**

\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$CONDON\$\$\$\$
\$\$\$\$USERNAME\$\$\$\$



MATCHLINE Sta. 655+00 - L- SEE SIGN-19



BEGIN CONSTRUCTION
 -Y32- POT Sta. 15+45.00

669

Robert G. Barr
 Expressway
 SEE NOTE 1.

LITTERING
 IS ILLEGAL
 MAX \$
 FINE
 SEE NOTES 3 & 4.

NOTES

1. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
3. SIGN ERECTION, RELOCATE SIGN TYPE E
4. DISPOSAL OF SUPPORT, U-CHANNEL

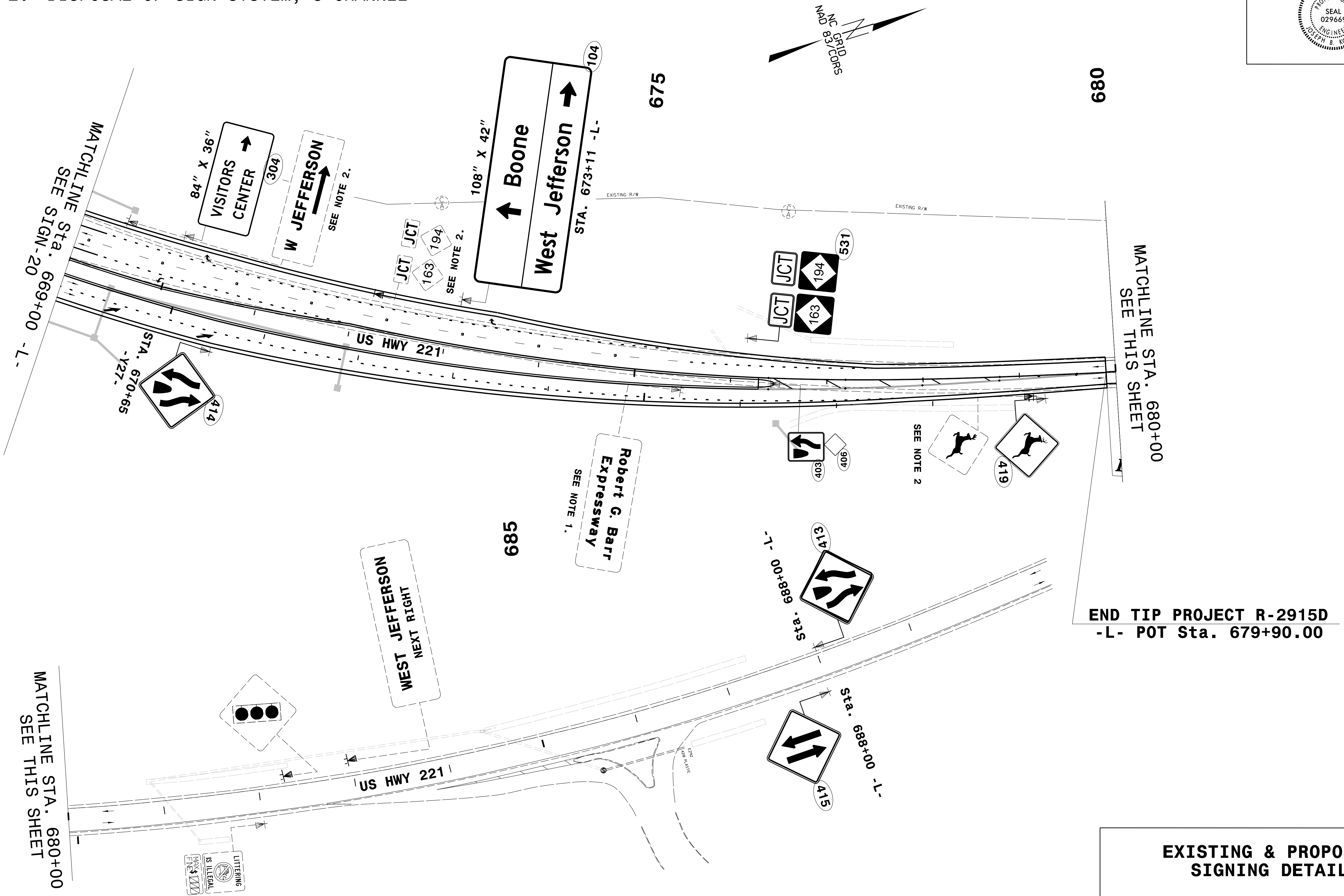
MATCHLINE Sta. 24+00
 -Y32- SEE SIGN-22

EXISTING SIGN DETAIL



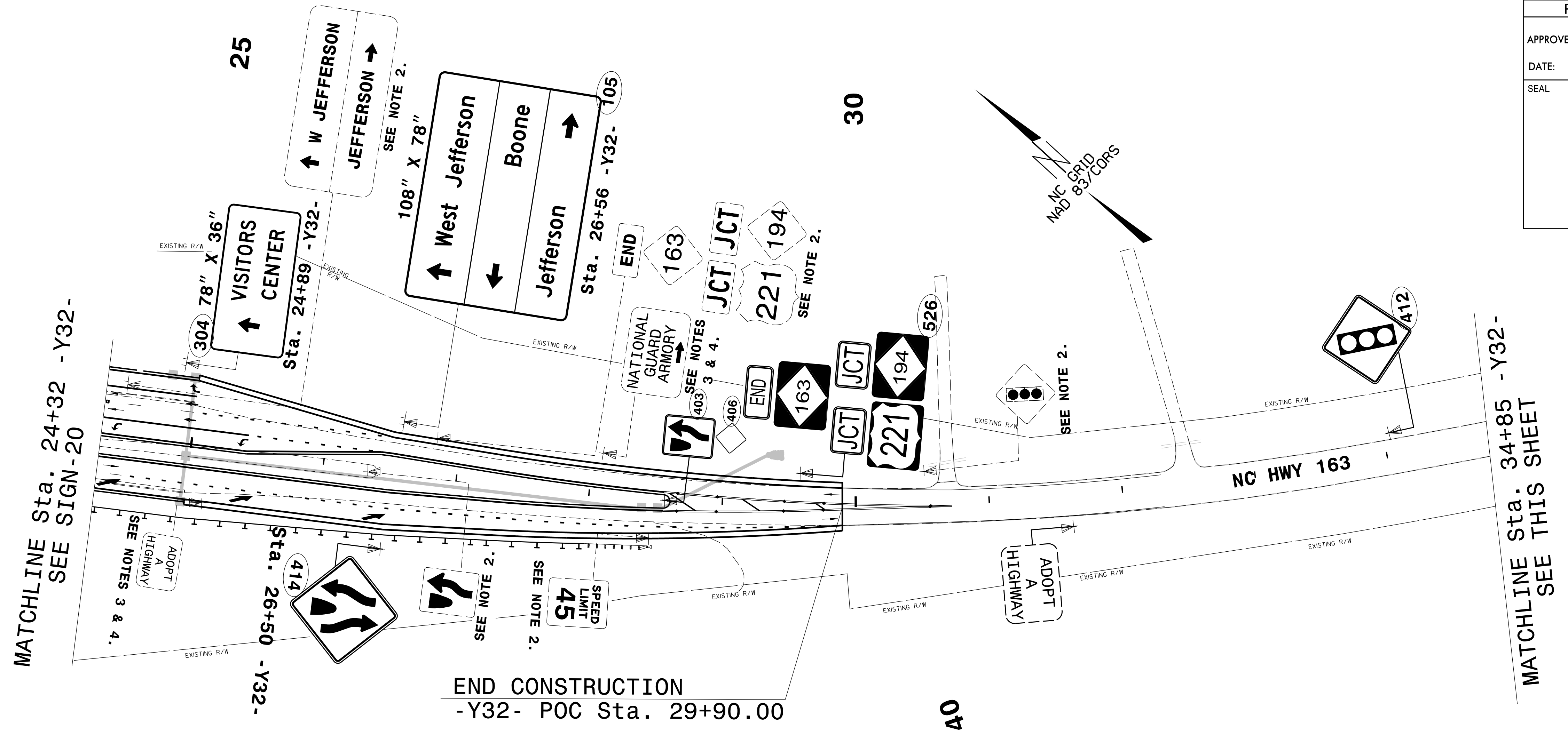
NOTES

1. DISPOSAL OF SIGN SYSTEM, STEEL BEAM
2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL



SYTIME\$\$\$\$
 DGN\$\$\$\$
 USER\$\$\$\$

**EXISTING & PROPOSED
SIGNING DETAIL**



NOTE

- 2. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 3. SIGN ERECTION, RELOCATE SIGN TYPE E
- 4. DISPOSAL OF SUPPORT, U-CHANNEL

**EXISTING & PROPOSED
SIGNING DETAIL**

\$\$\$\$SYTIME\$\$\$\$
\$\$\$\$DGN\$\$\$\$
\$\$\$\$USERNAME\$\$\$\$