

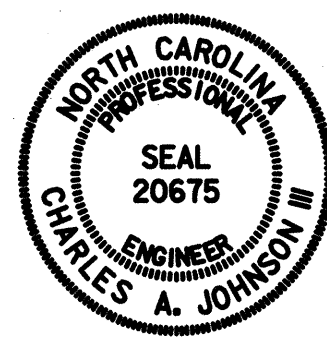
T.I.P.: R-3307

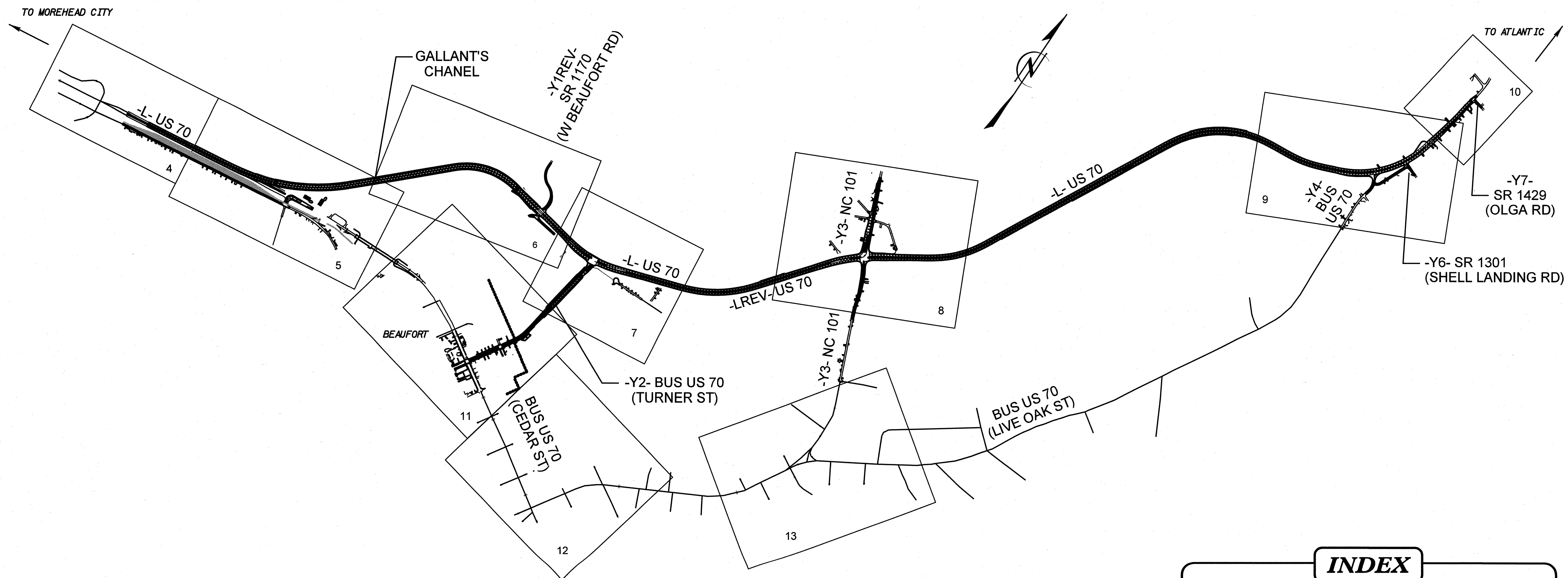
CONTRACT: C202848

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
CARTERET COUNTY

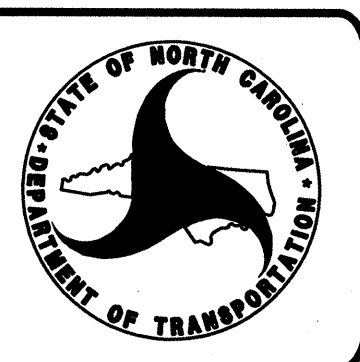
LOCATION: US 70 FROM EXISTING FOUR LANES AT RADIO
ISLAND TO US 70 NORTH OF SR 1429
(OLGA RD)

TIP NO. R-3307	SHEET NO. SIGN-1
APPROVED: <i>[Signature]</i>	
DATE: 1-9-2013	
SEAL	
	



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

A. ALQUDWAH, PE SIGNING & DELINEATION REGIONAL ENGINEER
E. WARD SIGNING & DELINEATION PROJECT DESIGN ENGINEER




PLAN PREPARED BY:

HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

C.A. JOHNSON, III, PE SIGNING PROJECT ENGINEER
A.D. KLINKSIEK, E.I. SIGNING DESIGN ENGINEER
T.R. TERRELL SIGNING DESIGN TECHNICIAN

INDEX	
SHEET NO.	DESCRIPTION
SIGN-1-1A	TITLE SHEET AND NOTES
SIGN-1B	NCDOT ROADWAY STANDARD DRAWING 903.1 (2 OF 3)
SIGN-1C-1D	BRIDGE MOUNTED SIGN DETAIL
SIGN-2	SUPPORT INFORMATION
SIGN-3-3H	SIGN DESIGNS, E AND F SHEETS
SIGN-4-12	SIGN PLAN SHEETS

TIP NO. R-3307	SHEET NO. SIGN-1A
APPROVED: <i>[Signature]</i>	
DATE: 1-9-2013	
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
901.20	TYPE 'B' 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
903.10	GROUND MOUNTED SIGN SUPPORTS (SHEETS 1 OF 3 AND 3 OF 3 ONLY)
903.20	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON WOOD POSTS
903.40	MEDIAN BARRIER SIGN SUPPORT AND ANCHORAGE
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, WOOD
- 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 3 DISPOSAL OF SIGN, D, E OR F
- 4 SIGN ERECTION, TYPE B (OVERHEAD)
- 5 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 6 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 7 STOCKPILE SIGN SYSTEM, WOOD
- 8 SIGN ERECTION, TYPE D, E, AND F
- 9 SUPPORTS, BARRIER (LARGE)
(See Roadway Standard Drawings 903.40)
- 10 SUPPORTS, BARRIER (LARGE)
(See Bridge Mounted Sign Detail)


GENERAL NOTES

- . SIGNS FURNISHED BY THE STATE
- . ALL EXISTING SIGNS/SIGN SYSTEMS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS. THE SIGNS TO BE DISPOSED ARE NOT SHOWN ON THE PLANS; HOWEVER THE PAY ITEM/QUANTITY IS INCLUDED IN THE CONTRACT.
- . ALL TYPE D, E AND F SIGNS SHALL BE MOUNTED ON 4" x 4" WOOD POST(S) 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.
- . SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRAFFIC CONTROL PLANS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . 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 STEEL SUPPORTS UNTIL "S" DIMENSIONS HAVE BEEN FIELD VERIFIED.
- . SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.
- . CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES AND STORM DRAINS PRIOR TO CONSTRUCTION
- . OVERHEAD SIGNS 1 AND 2 ARE TO BE ATTACHED VIA 3 BOLT CLAMPS ON EXISTING SPANWIRE.

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	7	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	5884	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	482	L.F.
4080000000	903	SUPPORTS, BARRIER (LARGE)	9	EA.
4082000000	903	SUPPORTS, WOOD	3122	L.F.
4096000000	904	SIGN ERECTION, TYPE D	21	EA.
4102000000	904	SIGN ERECTION, TYPE E	128	EA.
4108000000	904	SIGN ERECTION, TYPE F	60	EA.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)	2	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	4	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	6	EA.
4157000000	907	STOCKPILE SIGN SYSTEM, WOOD	2	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, WOOD	83	EA.
4234000000	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	2	EA.
4238000000	907	DISPOSAL OF SIGN, D, E OR F	3	EA.

NOTES AND QUANTITIES

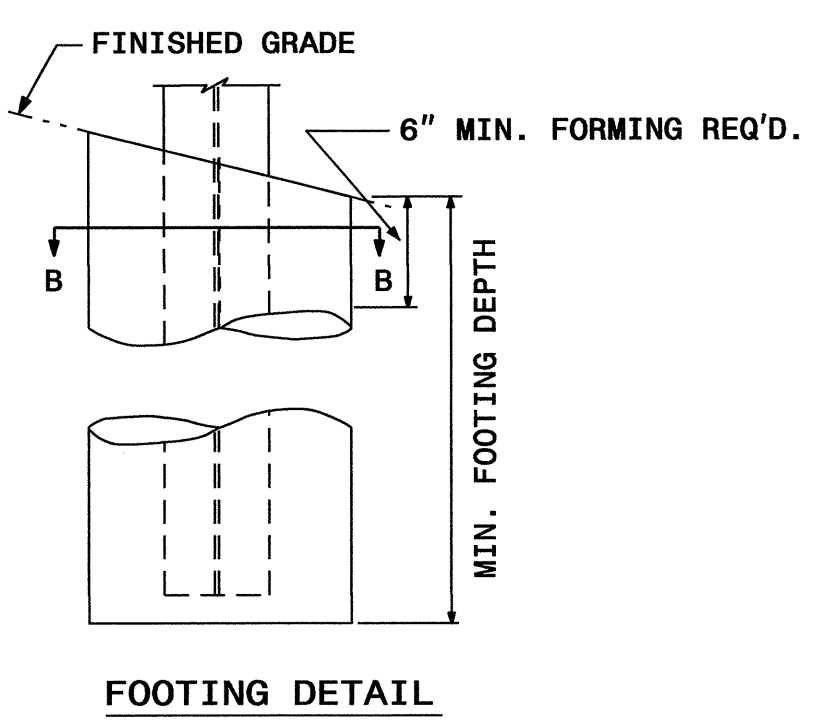
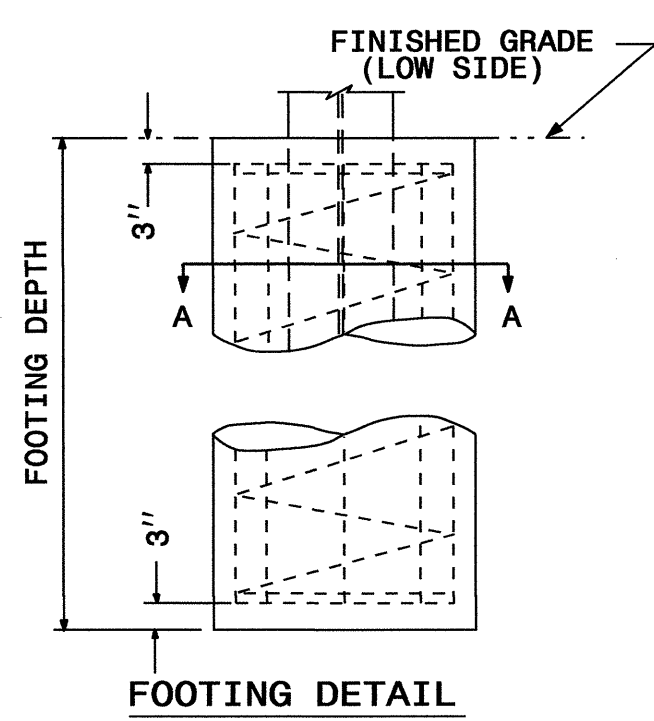
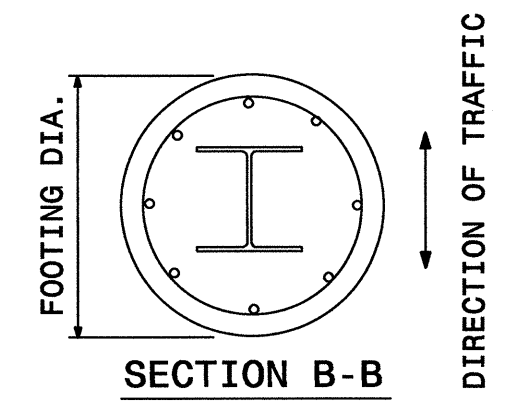
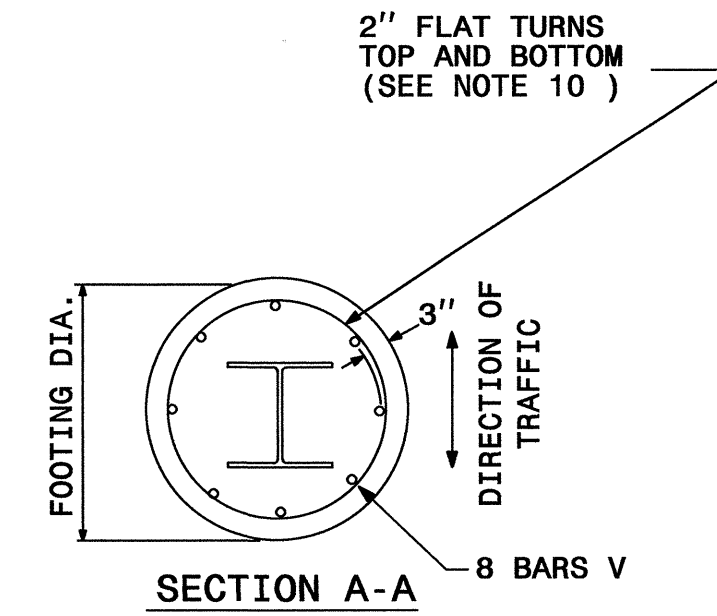
TIP NO.	SHEET NO.
R-3307	1B
APPROVED: <i>[Signature]</i>	
DATE: 3/8/12	
SEAL	
	

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

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

BEAM SHAPE	BOLT SIZE	SLIP BASE PLATE DATA							KEEPER PLATE DATA							HINGE CONNECTION DATA							BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.			
		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"	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 1/4"	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"	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 1/4"	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"	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 1/4"	4"	3 1/2"	4"	3/4"	1"	1 1/2"	2"	9/32"	3/8"	32
W6X12	5/8" DIA. X 3 3/4"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/4"	1 1/32"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/32"	28 GAUGE	5/8" DIA. X 2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	1 1/32"	3/8"	39
W6X16	5/8" DIA. X 3 3/4"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	1 1/32"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/32"	28 GAUGE	5/8" DIA. X 2 1/2"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	1 1/32"	1/2"	47
W8X18	5/8" DIA. X 4 1/4"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/2"	1 1/32"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/32"	28 GAUGE	5/8" DIA. X 2 1/2"	5 1/4"	4"	4 1/2"	1"	1 1/8"	5/8"	2 1/4"	1 1/32"	1/2"	70
W8X21	3/4" DIA. X 4 1/4"	14"	7"	1 1/2"	1"	5"	1 1/2"	1 1/32"	14"	7"	1 1/2"	1"	5"	1 1/32"	28 GAUGE	3/4" DIA. X 2 3/4"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 1/32"	1/2"	73
W10X22	3/4" DIA. X 4 1/4"	16"	8"	1 1/2"	1"	6"	1 1/2"	1 1/32"	16"	8"	1 1/2"	1"	6"	1 1/32"	28 GAUGE	3/4" DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 1/32"	1/2"	119
W10X26	3/4" DIA. X 4 3/4"	16 1/2"	8"	1 1/2"	1"	6"	1 3/4"	1 1/32"	16 1/2"	8"	1 1/2"	1"	6"	1 1/32"	28 GAUGE	3/4" DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 1/32"	5/8"	140
W12X26	3/4" DIA. X 4 3/4"	18 1/2"	9"	1 1/2"	1"	7"	1 3/4"	1 1/32"	18 1/2"	9"	1 1/2"	1"	7"	1 1/32"	28 GAUGE	3/4" DIA. X 2 3/4"	6 1/2"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 1/32"	5/8"	176
W14X30	1" DIA. X 5"	22"	9"	2"	1 1/2"	6"	2"	1 1/32"	22"	9"	2"	1 1/2"	6"	1 1/32"	28 GAUGE	1" DIA. X 3"	6 3/4"	7"	8"	1 1/4"	2"	1"	4"	1 1/32"	5/8"	205
W16X31	1" DIA. X 5"	24"	9"	2"	1 1/2"	6"	2"	1 1/32"	24"	9"	2"	1 1/2"	6"	1 1/32"	28 GAUGE	1" DIA. X 3 1/4"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 1/32"	3/4"	223
W18X35	1" DIA. X 5"	25"	9"	2"	1 1/2"	6"	2"	1 1/32"	25"	9"	2"	1 1/2"	6"	1 1/32"	28 GAUGE	1" DIA. X 3 1/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 1/32"	3/4"	243
W18X40	1" DIA. X 5 1/2"	26"	9"	2"	1 1/2"	6"	2 1/4"	1 1/32"	26"	9"	2"	1 1/2"	6"	1 1/32"	28 GAUGE	1" DIA. X 3 3/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 1/32"	7/8"	278
W21X44	1" DIA. X 5 1/2"	29"	9"	2"	1 1/2"	6"	2 1/2"	1 1/32"	29"	9"	2"	1 1/2"	6"	1 1/32"	28 GAUGE	1" DIA. X 3 3/4"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 1/32"	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
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

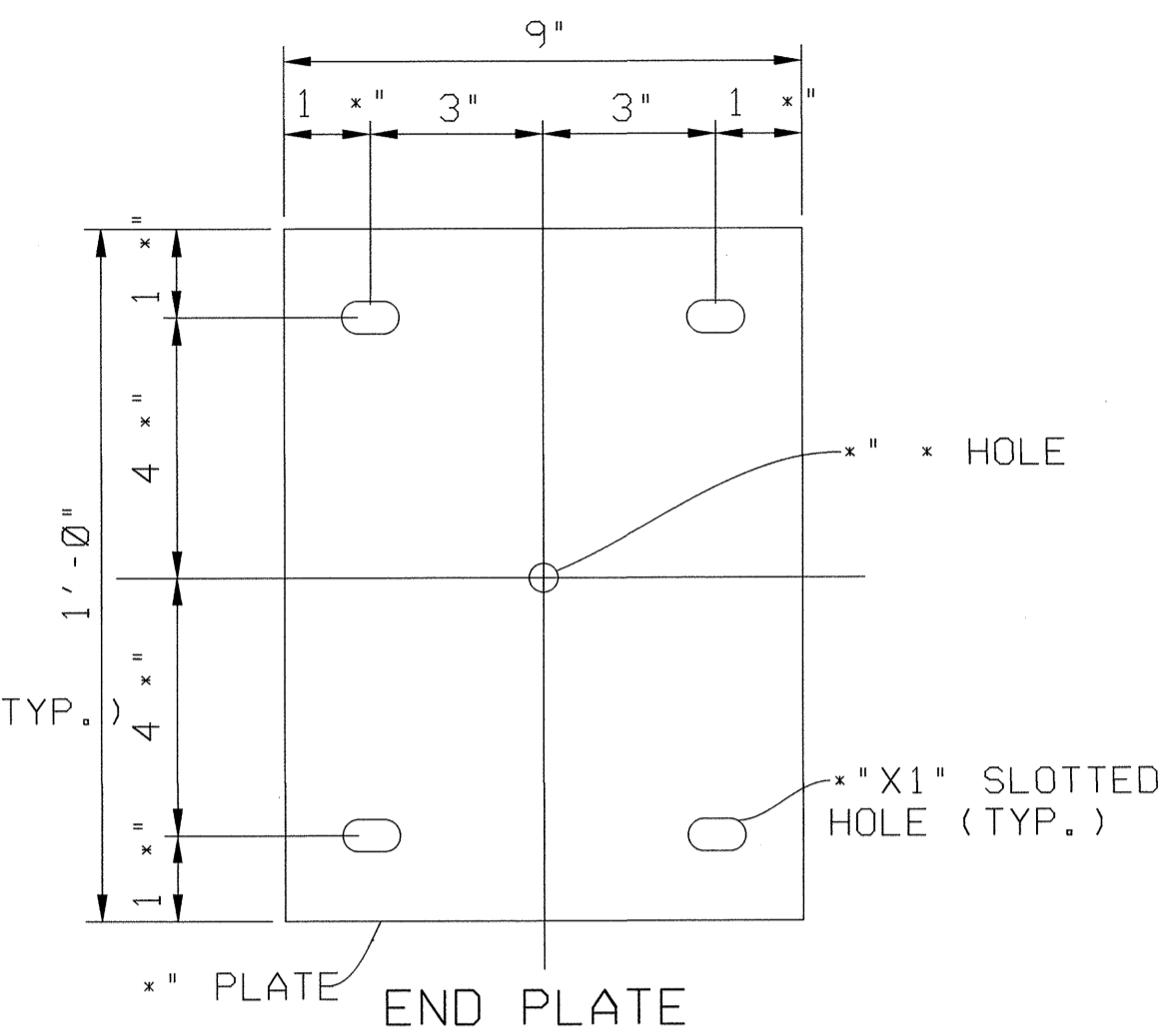
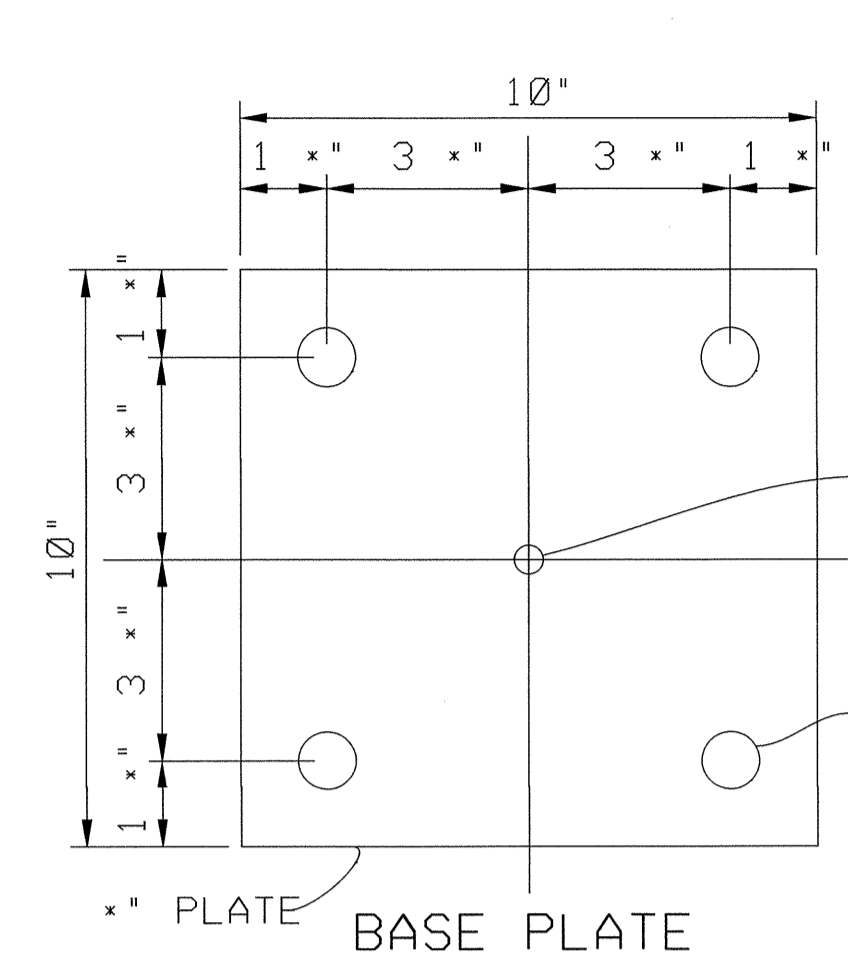
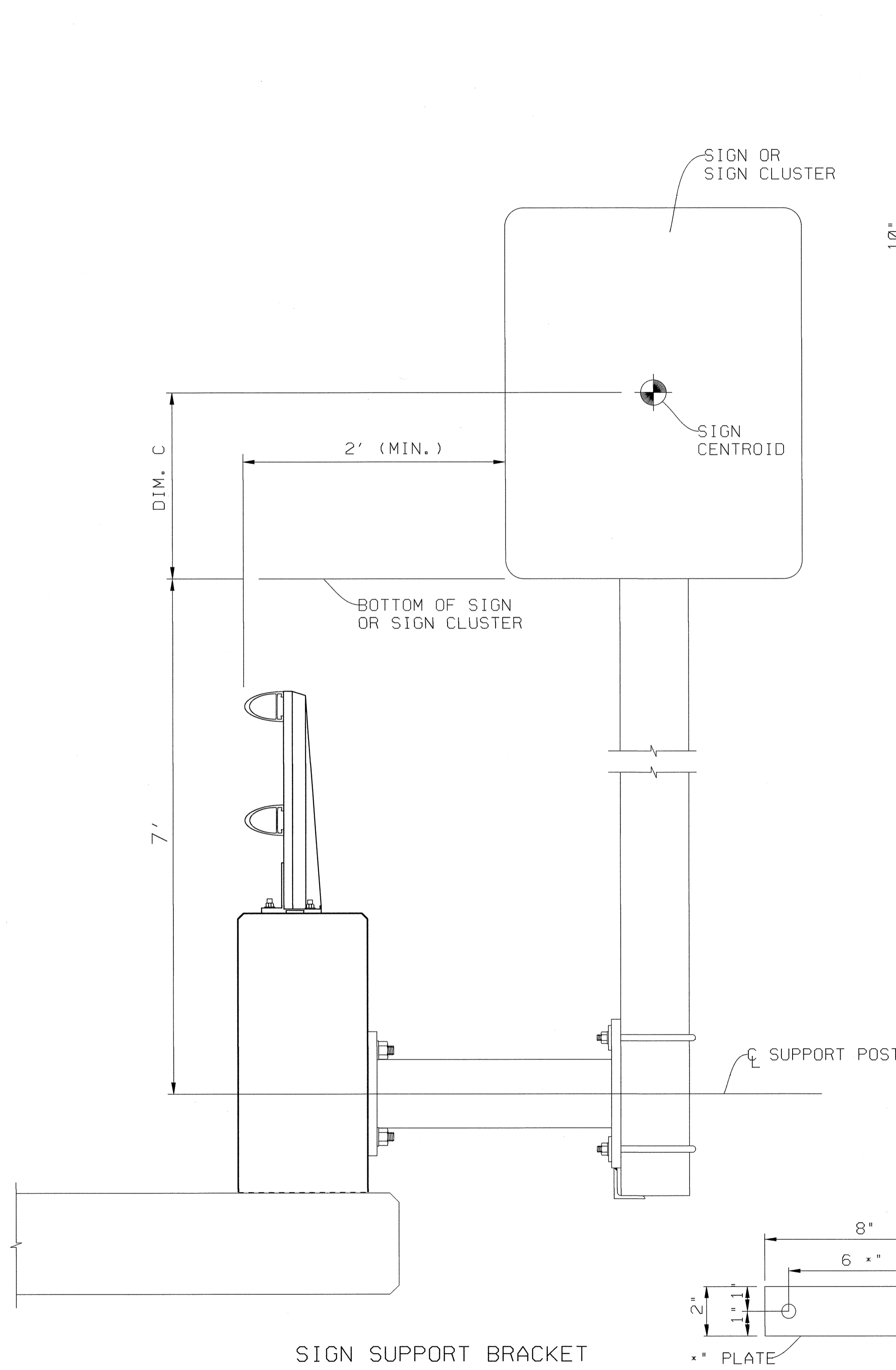
ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

**REVISED SIGNING
ROADWAY STANDARD DRAWING**

08-MAR-2012 15:33
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erleward AT TE247905

TIP NO. R-3307	SHEET NO. SIGN-1C
APPROVED: <i>[Signature]</i>	
DATE: 1-2-13	
SEAL	
	



NOTES:

DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.

WIND SPEEDS: FOR DARE COUNTY USE 140 M.P.H..

GEOMETRY: INSTALL SIGNS WITH BOTTOM EDGE OF THE LOWER SIGN PANEL AT 7' ABOVE THE GUTTER LINE. EDGE OF SIGN PANELS MUST BE A MINIMUM OF 2' OFFSET FROM THE INSIDE FACE OF THE TOP OF THE PARAPET. SIGN POSTS SHALL BE INSTALLED PLUMB.

APPLICABILITY: MOUNT ONLY TO CONCRETE TRAFFIC BARRIERS IN LOCATIONS WHERE GROUND MOUNTING IS NOT POSSIBLE. MOUNT SIGN ON PIPE SUPPORT PER NCDOT STD DWG 903.40.

SHOP DRAWINGS: SHOP DRAWINGS ARE NOT REQUIRED.

PAYMENT: PAYMENT FOR SIGN SUPPORT BRACKET SHALL BE INCLUDED IN THE COST OF THE SINGLE POST SIGN.

MATERIALS:

COATINGS: ALL STEEL AND FASTENERS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM A153. SIGN SUPPORT WELDMENT SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

SUPPORT POSTS: ASTM A501 5" NPS SCHEDULE 40 STEEL PIPE.

SIGN POSTS: ALUMINUM ASSOCIATION ALLOY 6061-T6 (ASTM B209, B221 OR B308) 5" NPS SCHEDULE 40 ALUMINUM PIPE.

STEEL PLATES: ASTM A36 OR A709 GRADE 36.

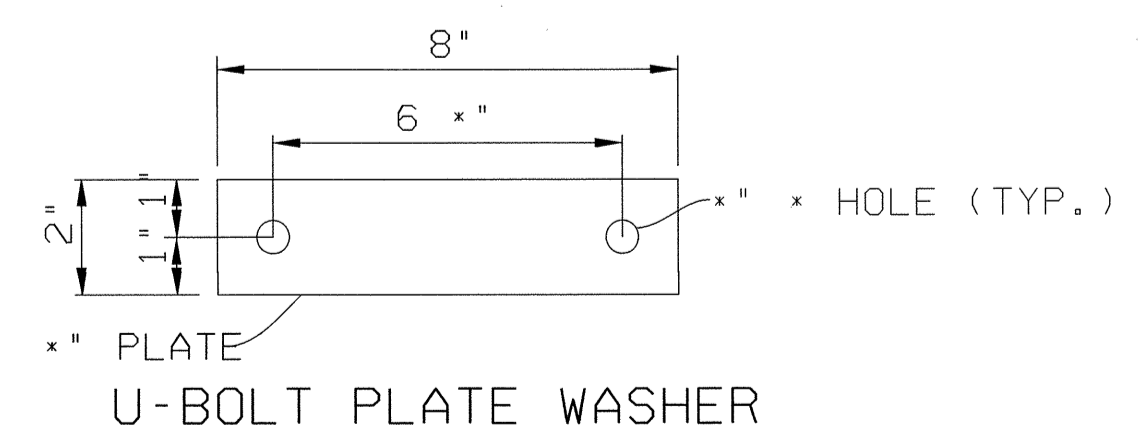
ANCHOR BOLTS: ASTM F1554 GRADE 55 WITH A SINGLE SELF-LOCKING HEX NUT AND WASHERS. INSTALL ANCHOR BOLTS PERPENDICULAR TO THE BASE PLATES ON BACK OF TRAFFIC RAILING. SEE ANCHOR BOLT NOTES, SHEET 2 OF 2.

ADHESIVE BONDED ANCHORS: FULLY THREADED ANCHOR BOLTS WITH TYPE HV ADHESIVE BONDING MATERIAL SYSTEM IN ACCORDANCE WITH SPECIFICATION SECTION 416 & 937. IN LIEU OF THE NUMBER OF ANCHORS SPECIFIED TO BE TESTED IN SPECIFICATION SECTION 416-6, FIELD TEST ALL ADHESIVE BONDED ANCHORS INSTALLED PER THIS DESIGN STANDARD.

U-BOLTS: ASTM A449 SIZED FOR SIGN POST, WITH FLAT WASHERS AND LOCKING HEX NUTS.

WELDING: WELD IN ACCORDANCE WITH AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (STEEL), ANSI/AWS D1.1 (CURRENT EDITION). REQUIRED WELD MATERIAL IS E70XX. NONDESTRUCTIVE TESTING IS NOT REQUIRED.

MAX. WIND SPEED (MPH)	MAX. SIGN AREA (SF)	MAX. SIGN CENTROID HEIGHT (DIM. A + DIM. C)
110	30	9' - 10"
130	25	9' - 7"
150	20	9' - 7"




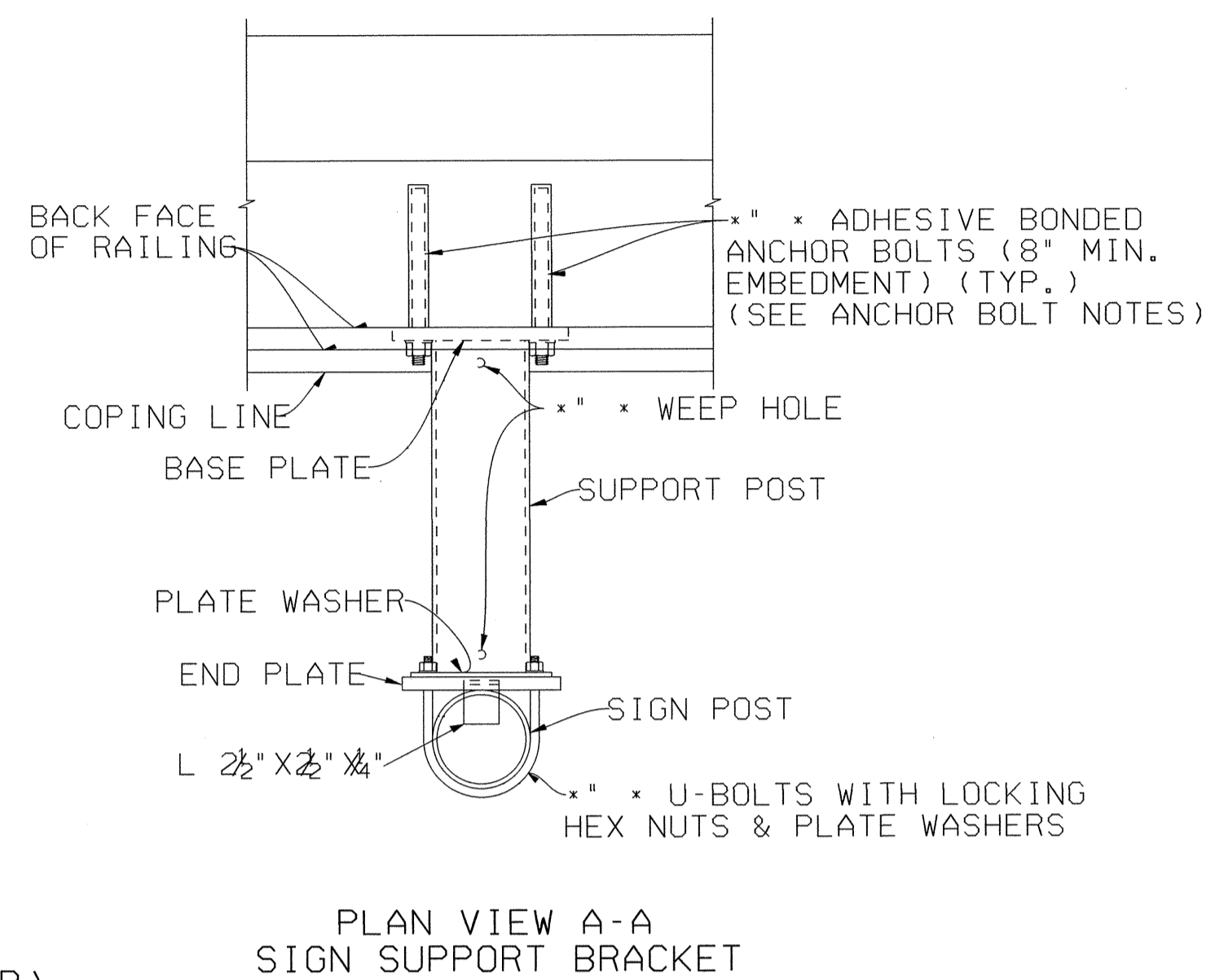
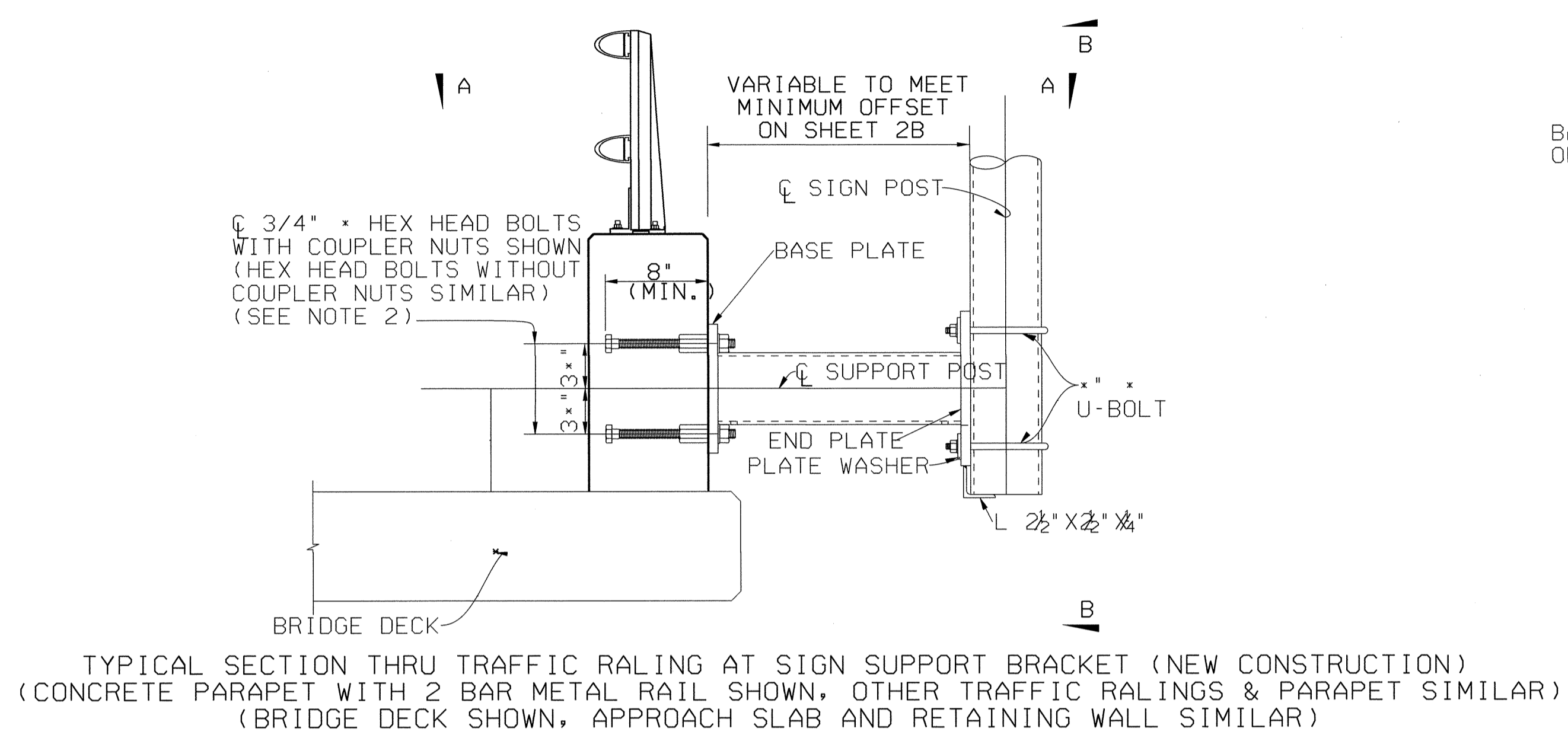
DIM. A = DISTANCE FROM CENTERLINE OF THE SUPPORT POST TO THE BOTTOM OF THE SIGN OR SIGN CLUSTER.

DIM. C = VERTICAL DISTANCE FROM THE BOTTOM OF THE SIGN OR SIGN CLUSTER TO THE CENTROID OF THE SIGN OR SIGN CLUSTER.

BRIDGE MOUNTED SIGN DETAIL

02-JAN-2013 16:08
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TIP NO. R-3307	SHEET NO. SIGN-ID
APPROVED: <i>[Signature]</i>	
DATE: 1-2-13	
SEAL	
	

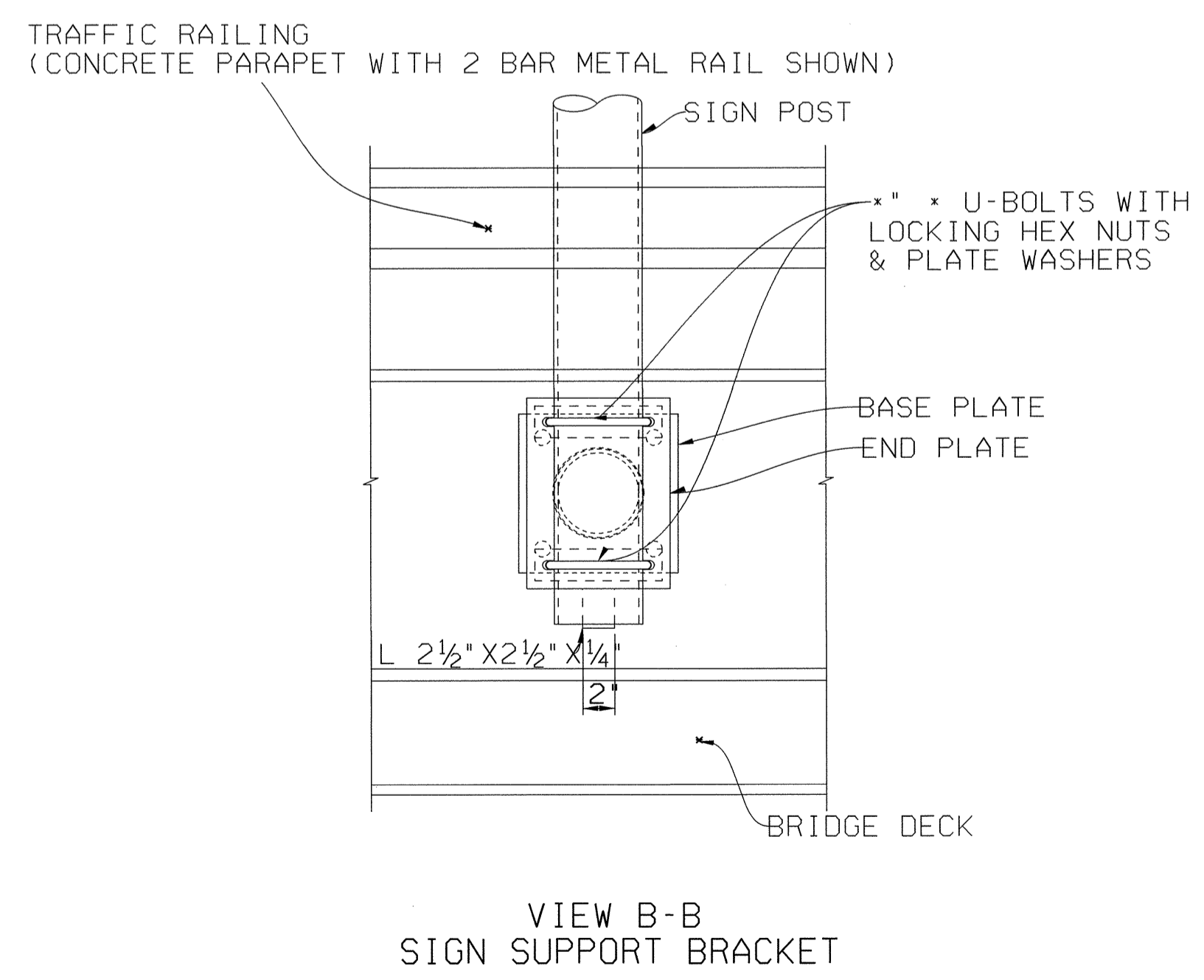
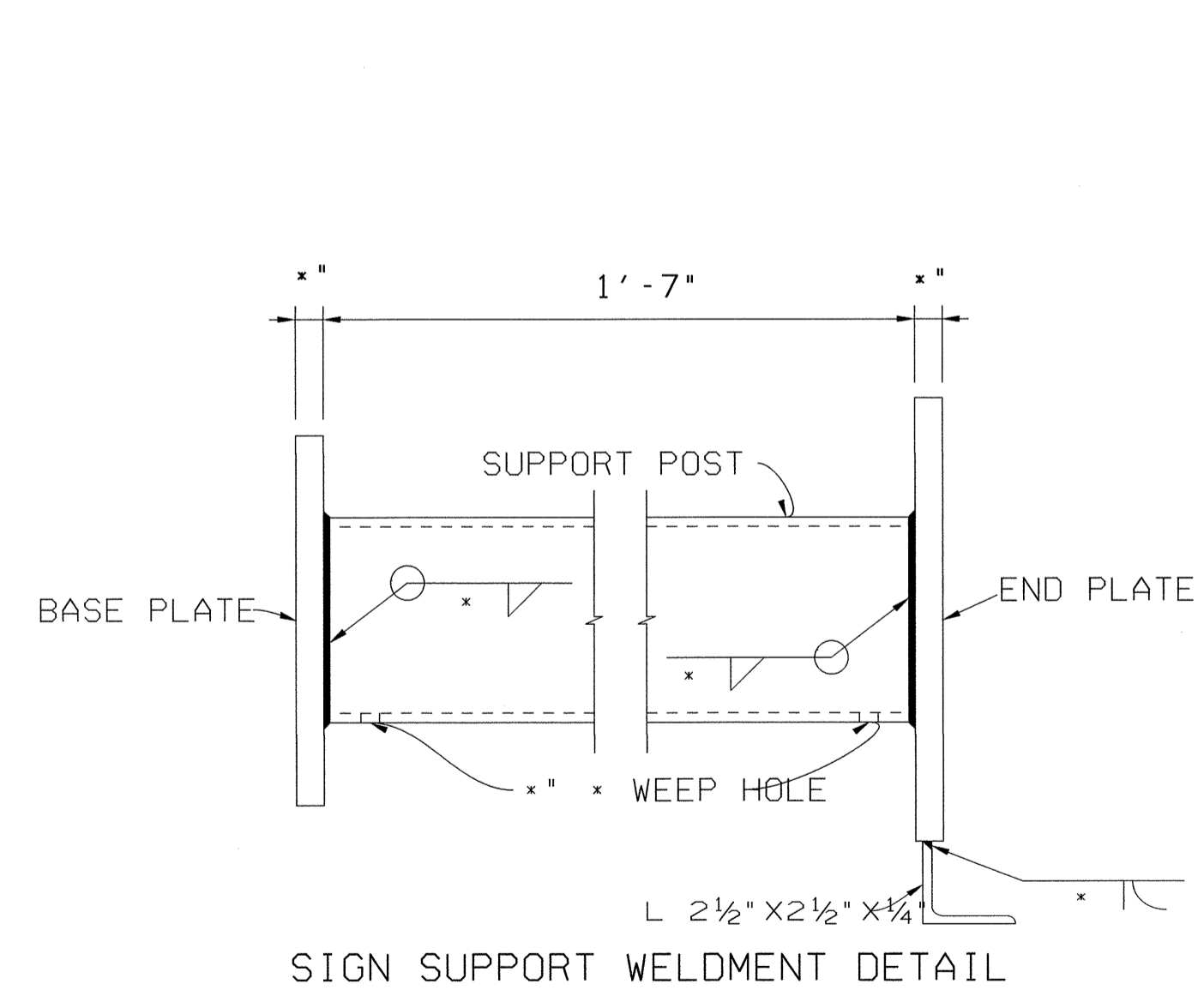


ANCHOR BOLT NOTES:

TIE ANCHOR BOLTS SECURELY AND USE TEMPLATES AS NECESSARY TO MAINTAIN BOLT SPACING.
 OPTIONAL COUPLERS ARE SHOWN FOR SLIPFORMING; KEEP ANCHOR BOLT COUPLER THREADS FREE OF CONCRETE.


CROSS REFERENCES:

FOR BASE PLATE, END PLATE & U-BOLT PLATE WASHER DETAILS SEE SHEET 2B.



BRIDGE MOUNTED SIGN DETAIL

02-JAN-2013 16:08
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 ericward AT 12/27/05

TIP NO. R-3307	SHEET NO. Sign-2
APPROVED: <i>[Signature]</i>	
DATE: 2-24-12	
SEAL	
	

TYPE "A" AND "B" GROUND MOUNTED SIGN SUPPORTS

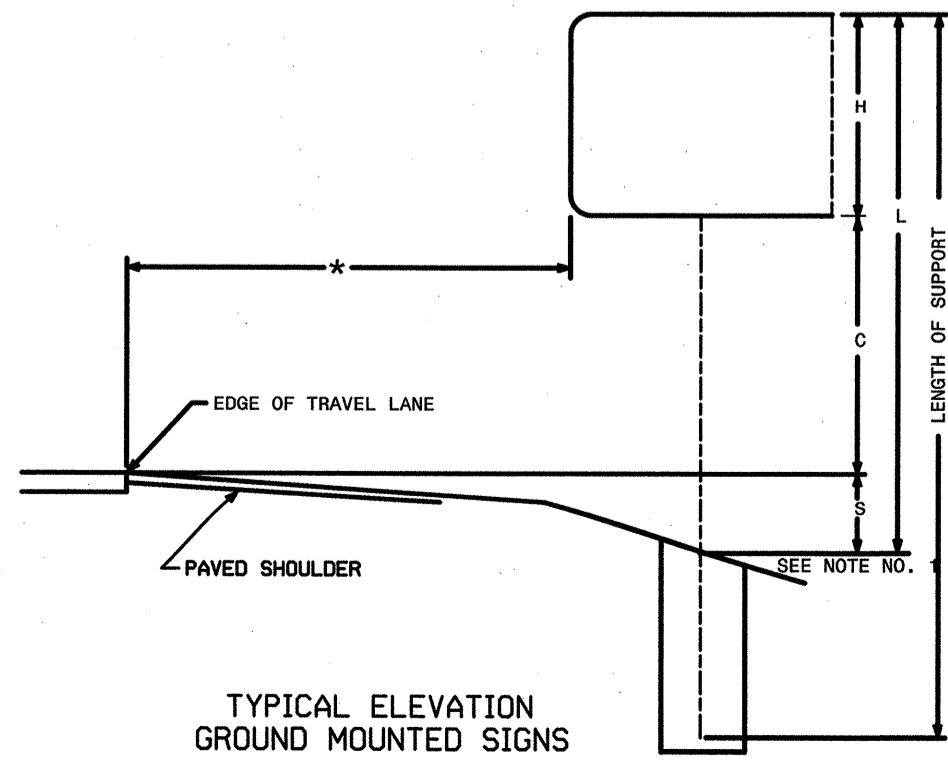
SIGN NO.	SIGN TYPE	SIGN SIZE (in.)			ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR. (ft.)	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			FOOTING DIAMETER (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	PLAIN FTGS. (c.y.)	FIELD VERIFIED (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	126	X	54	20+50 -L-	2	W6x12	BA	N/A	N/A	30.00	4.50	7.00	4.5	3.78	15.28	19.78	0.00	0.00	0.00	4.10	15.60	20.10	1.5	5	563.92	0.00	0.65	0.00											
102	A	174	X	36	73+00 -L-	2	W6x9	BA	N/A	N/A	17.50	3.00	7.00	4.5	2.33	12.33	16.83	0.00	0.00	0.00	2.72	12.72	17.22	1.5	5	369.57	0.00	0.65	0.00											
103	B	108	X	42	75+00 -L-	2	W6x12	BA	N/A	N/A	30.00	3.50	7.00	4	4.46	14.96	18.96	0.00	0.00	0.00	5.43	15.93	19.93	1.5	4.5	552.04	0.00	0.59	0.00											
104	A	174	X	36	84+50 -L- Lt	2	W6x12	BA	N/A	N/A	30.00	3.00	7.00	4.5	4.68	14.68	19.18	0.00	0.00	0.00	5.92	15.92	20.42	1.5	5	560.56	0.00	0.65	0.00											
105	B	108	X	42	81+00 -L- Lt	2	W6x12	BA	N/A	N/A	30.00	3.50	7.00	4	4.24	14.74	18.74	0.00	0.00	0.00	5.12	15.62	19.62	1.5	4.5	545.68	0.00	0.59	0.00											
106	B	90	X	48	111+50 -L-	2	W6x9	BA	N/A	N/A	30.00	4.00	7.00	4	4.22	15.22	19.22	0.00	0.00	0.00	4.25	15.25	19.25	1.5	4.5	409.35	0.00	0.59	0.00											
107	A	162	X	42	125+00 -L-	2	W6x16	BA	N/A	N/A	30.00	3.50	7.00	5	5.98	16.48	21.48	0.00	0.00	0.00	7.68	18.18	23.18	1.5	5.5	846.94	0.00	0.72	0.00											
108	B	120	X	48	120+00 -L- Lt	2	W6x12	BA	N/A	N/A	30.00	4.00	7.00	4.5	4.70	15.70	20.20	0.00	0.00	0.00	5.79	16.79	21.29	1.5	5	583.24	0.00	0.65	0.00											
109	B	132	X	36	106+00 -L-REV- Lt	2	W6x12	BA	N/A	N/A	30.00	3.00	7.00	4.5	5.44	15.44	19.94	0.00	0.00	0.00	6.84	16.84	21.34	1.5	5	580.72	0.00	0.65	0.00											
110	B	126	X	48	195+50 -L-	2	W6x16	BA	N/A	N/A	33.00	4.00	7.00	5	7.04	18.04	23.04	0.00	0.00	0.00	7.16	18.16	23.16	1.5	5.5	871.58	0.00	0.72	0.00											
																							TOTAL	5883.62	TOTAL	0.00	TOTAL	6.48	TOTAL	0.00										
																							USE:	5884	0	7	0													

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.



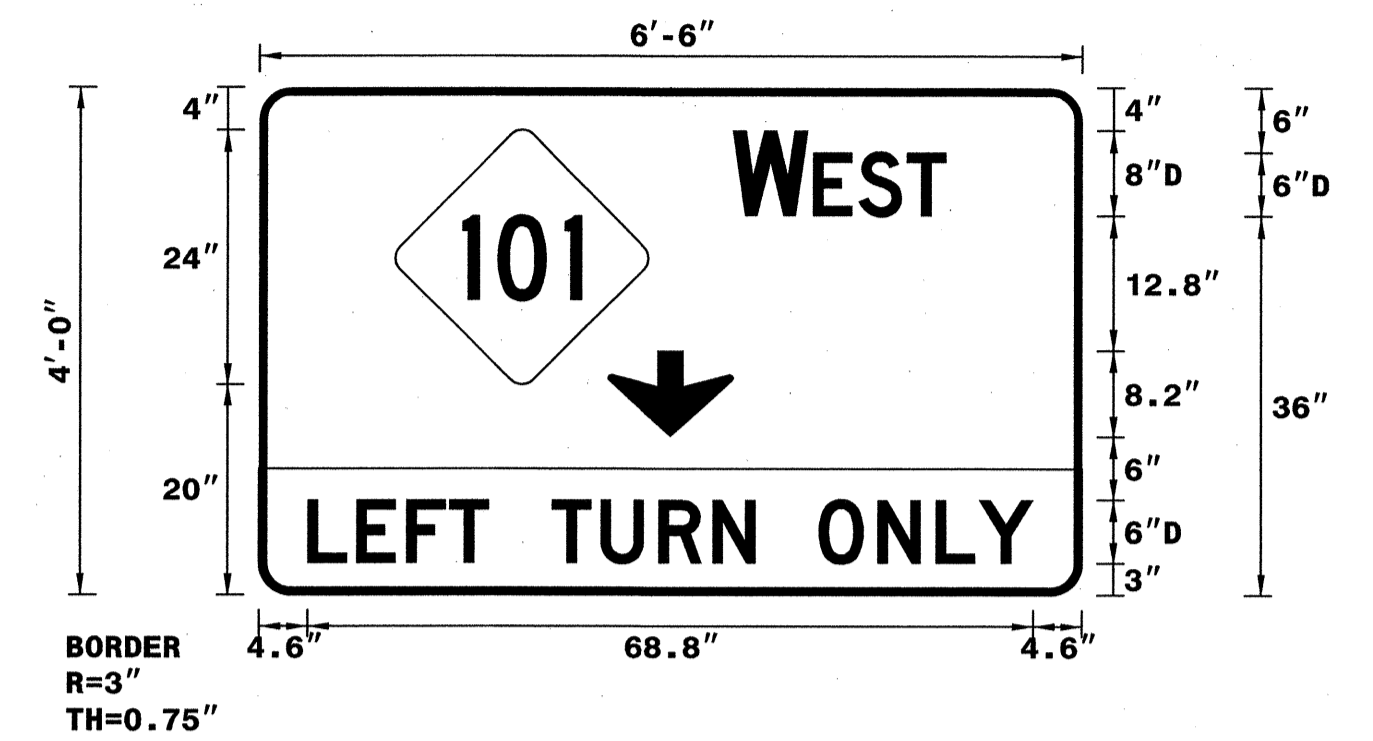
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

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

SIGN NUMBER: 1
 TYPE: B (OVHD)
 QUANTITY: 1
 SIGN WIDTH: 6'-6"
 HEIGHT: 4'-0"
 TOTAL AREA: 26.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 118.0

SYMBOL	X	Y	WID	HT
NC363A	12.9	20	24	24
ARROW DOWN	33	15	12	8.2

DESIGN BY: ADK CHECKED BY: TRT/CAJ DATE: January 2012
 PROJECT ID: R-3307 DIV: 02



- NOTES:
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Shields shall be Grade A reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
 3. Background shall be Grade C reflective sheeting.
 4. Bottom panel shall be yellow Grade C sheeting. Legend and border shall be direct applied black non-reflective sheeting. Border Width 0.75"
 5. Sign shall be attached via new three bolt clamps on existing spanwire.
 6. Do not install Z Bars.

LETTER POSITIONS

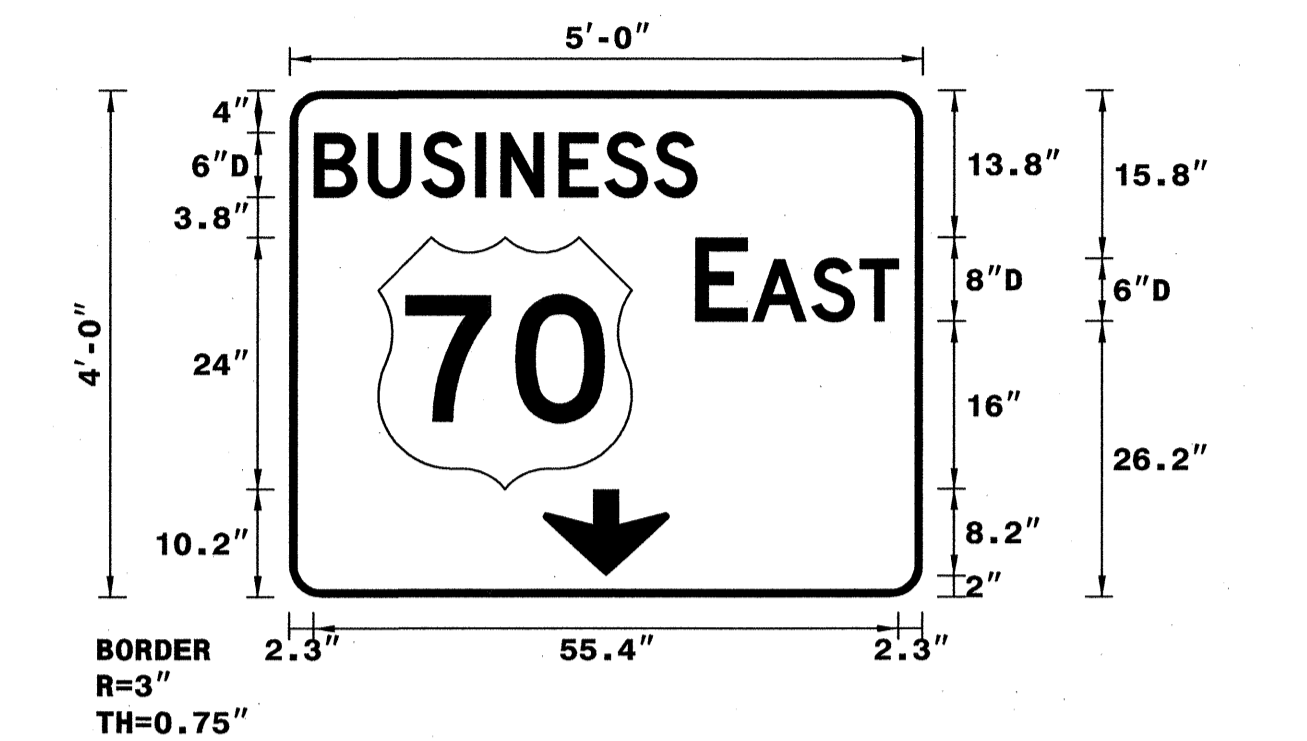
Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	20.2
D 2000	68.8

SIGN NUMBER: 2
 TYPE: B (OVHD)
 QUANTITY: 1
 SIGN WIDTH: 5'-0"
 HEIGHT: 4'-0"
 TOTAL AREA: 20.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 166.0

SYMBOL	X	Y	WID	HT
M1.4	8.4	10.2	24	24
ARROW DOWN	24	2	12	8.2

DESIGN BY: ADK CHECKED BY: TRT/CAJ DATE: January 2012
 PROJECT ID: R-3307 DIV: 02



- NOTES:
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Shields shall be Grade A reflective sheeting on 0.032" (0.8mm) aluminum and demountable.
 3. Background shall be Grade C reflective sheeting.
 4. Sign shall be attached via new three bolt clamps on existing spanwire.
 5. Do not install Z Bars.

LETTER POSITIONS

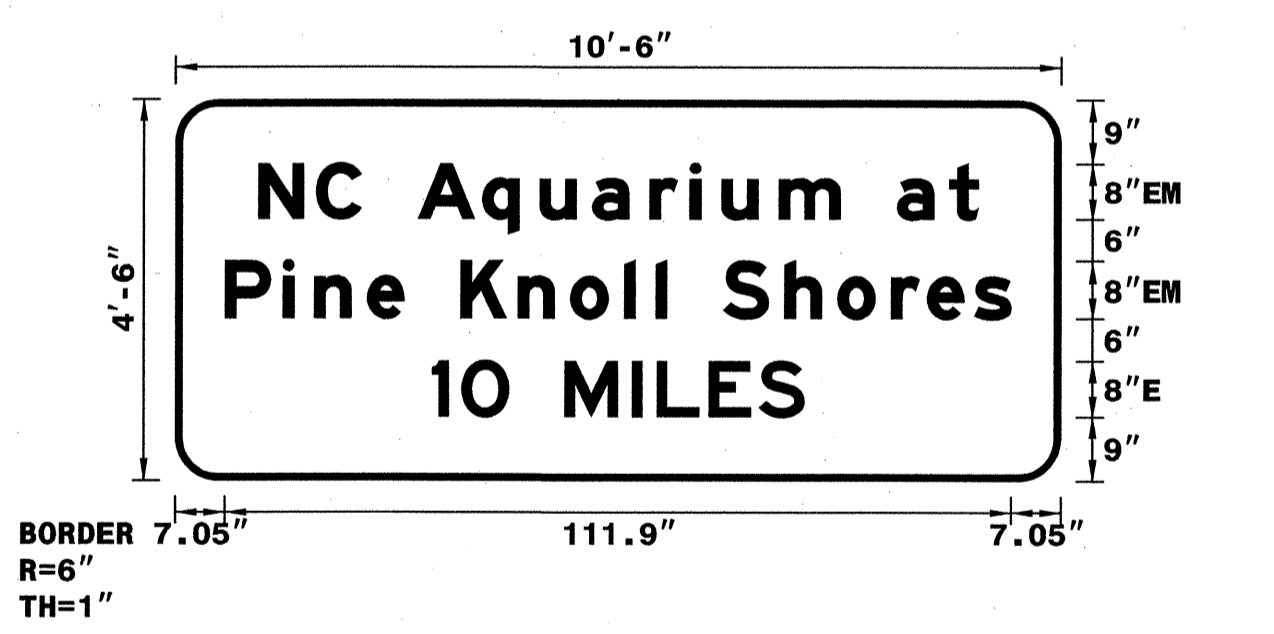
Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	36.3
D 2000	19.3

SIGN NUMBER: 101
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 10'-6"
 HEIGHT: 4'-6"
 TOTAL AREA: 47.3 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 118.0

SYMBOL	X	Y	WID	HT
ARROW RIGHT	154.1	14	8	12

DESIGN BY: TRT CHECKED BY: ADK/CAJ DATE: February 2012
 PROJECT ID: R-3307 DIV: 02



- NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	102.4
EM 2000	111.9
E 2000	53

SIGN NUMBER: 102
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 14'-6"
 HEIGHT: 3'-0"
 TOTAL AREA: 43.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 166.0

SYMBOL	X	Y	WID	HT
ARROW RIGHT	154.1	14	8	12

DESIGN BY: TRT CHECKED BY: ADK/CAJ DATE: February 2012
 PROJECT ID: R-3307 DIV: 02



- NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

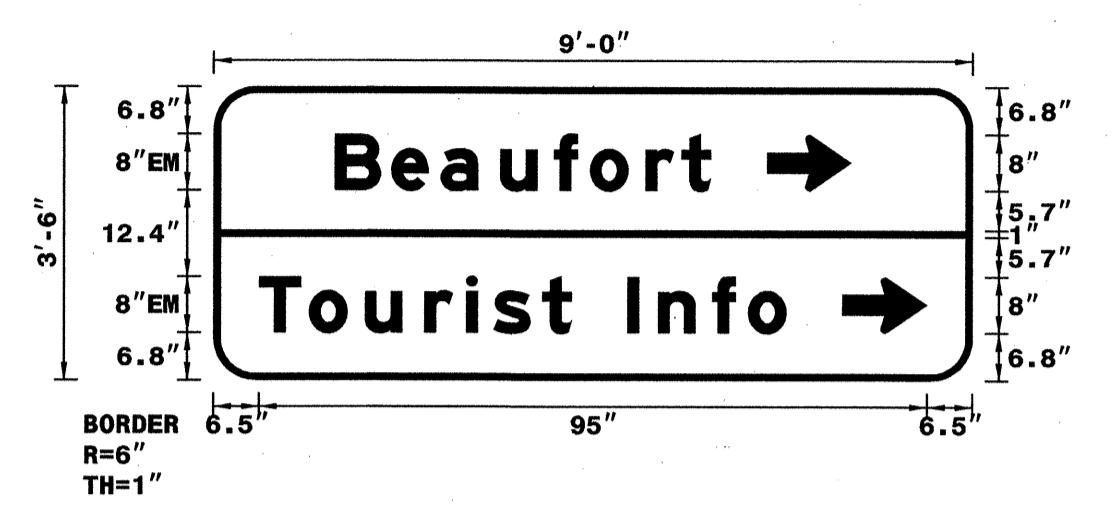
Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	88.4
EM 2000	136.6

SIGN NUMBER: 103
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 3'-6"
 TOTAL AREA: 31.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 100.0
 MAT'L: 0.125" ALUMINUM

SYMBOL	X	Y	WID	HT
Arrow Right	78.7	17.2	8	12
Arrow Right	89.5	6.5	8	12

DESIGN BY: TRT CHECKED BY: ADK/CAJ
 PROJECT ID: R-3307 DIV: 02 DATE: February 2012



NOTES:
 1. Top panel: Legend and border shall be direct applied White Grade C reflective sheeting. Background shall be Green Grade C reflective sheeting.
 2. Bottom panel: Legend and border shall be direct applied White Grade C reflective sheeting. Background shall be Blue Grade C reflective sheeting.

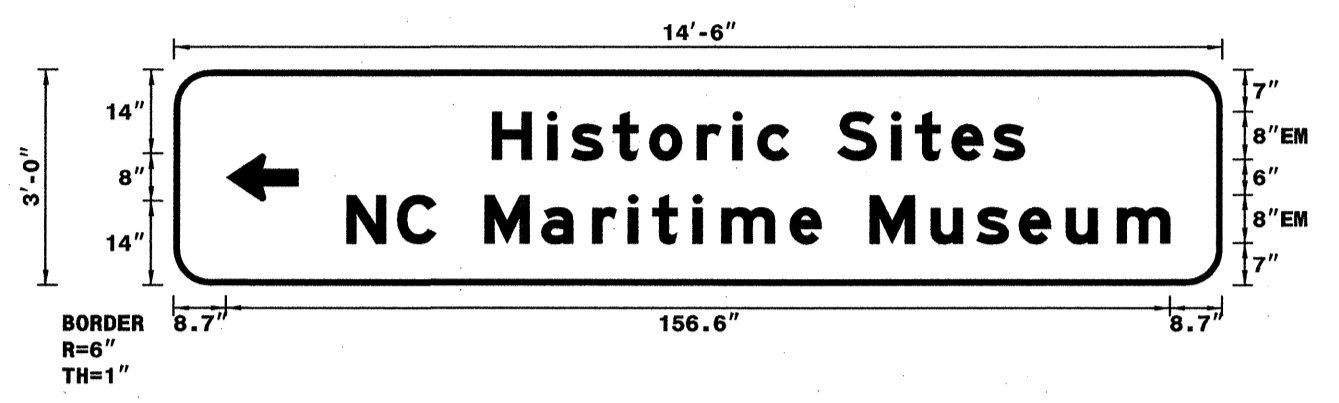
LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size
													Text Length
B	e	a	u	f	o	r	t						EM 2000
17.3	8	7	8.5	7.7	5.1	7.9	5.1	4.2	37.2				59.5
T	o	u	r	i	s	t	I	n	f	o			EM 2000
6.5	7.1	7.9	8.5	5.9	3.9	7	4.2	8	4.3	7.7	5.1	5.4	26.5

SIGN NUMBER: 104
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 14'-6"
 HEIGHT: 3'-0"
 TOTAL AREA: 43.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 166.0
 MAT'L: 0.125" ALUMINUM

SYMBOL	X	Y	WID	HT
Arrow Left	8.7	14	8	12

DESIGN BY: TRT CHECKED BY: ADK/CAJ
 PROJECT ID: R-3307 DIV: 02 DATE: February 2012



NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

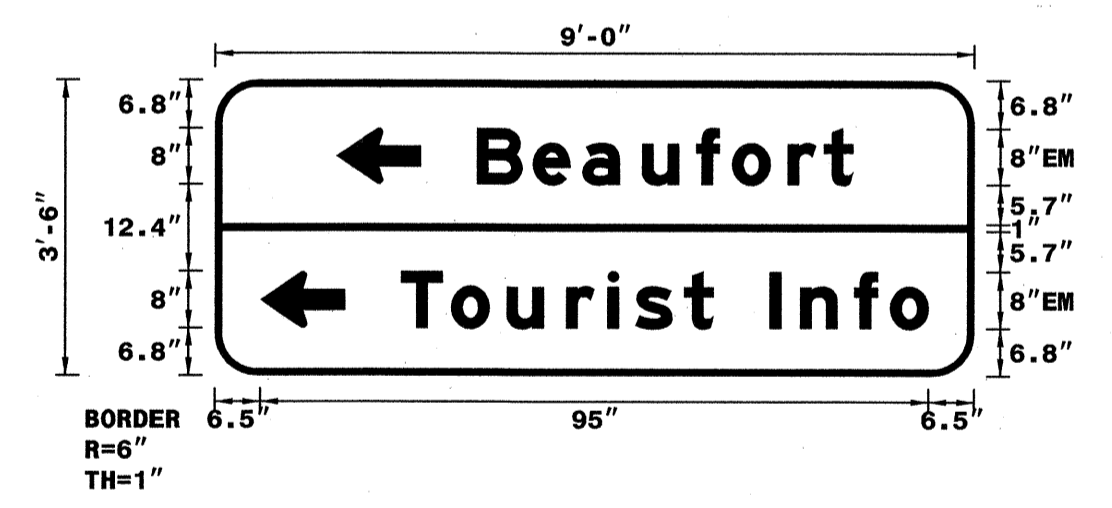
LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size							
													Text Length							
H	i	s	t	o	r	i	c	S	i	t	e	s	EM 2000							
52.8	9.2	3.9	7	6	7.9	5.9	4.1	5.3	8	9	4	6	88.4							
N	C	M	a	r	i	t	i	m	e	M	u	s	e	u	m	EM 2000				
28.7	8.4	6.5	8	9.4	8.5	5.9	4	6.7	4.8	11.3	5.3	8	10.2	7.6	7	7.8	8.5	8.8	8.7	136.6

SIGN NUMBER: 105
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 3'-6"
 TOTAL AREA: 31.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 100.0
 MAT'L: 0.125" ALUMINUM

SYMBOL	X	Y	WID	HT
Arrow Left	17.2	27.2	8	12
Arrow Left	6.5	6.8	8	12

DESIGN BY: TRT CHECKED BY: ADK/CAJ
 PROJECT ID: R-3307 DIV: 02 DATE: February 2012



NOTES:
 1. Top panel: Legend and border shall be direct applied White Grade C reflective sheeting. Background shall be Green Grade C reflective sheeting.
 2. Bottom panel: Legend and border shall be direct applied White Grade C reflective sheeting. Background shall be Blue Grade C reflective sheeting.

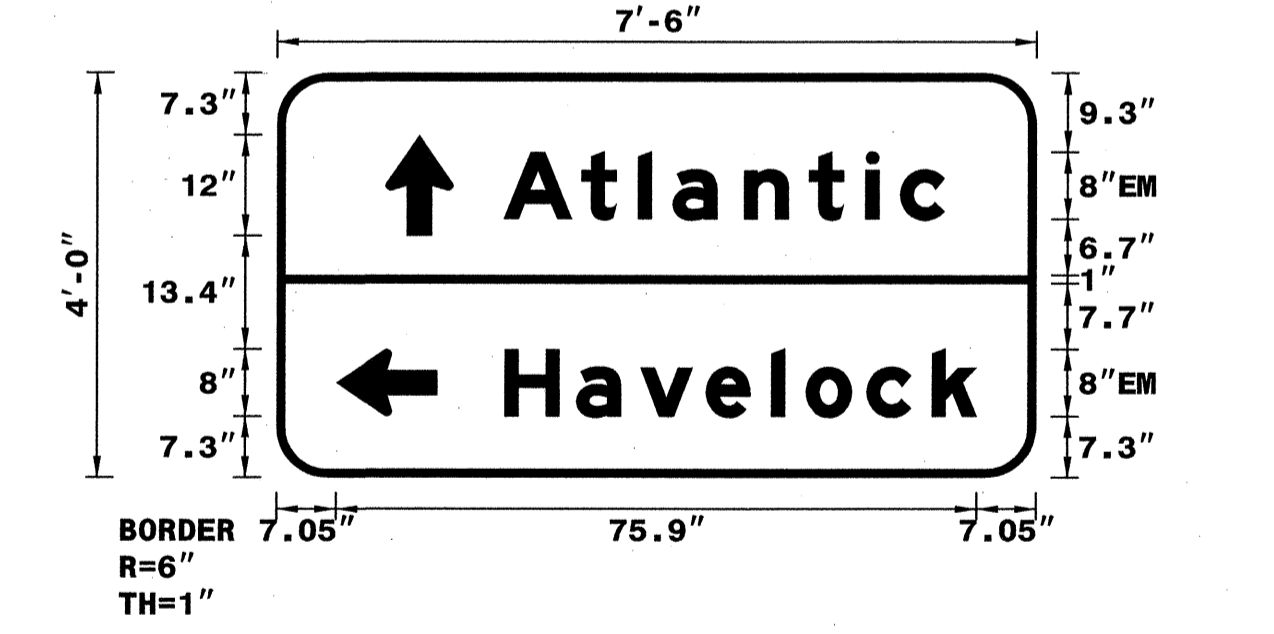
LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size
													Text Length
B	e	a	u	f	o	r	t						EM 2000
37.2	8	7	8.5	7.7	5.1	7.9	5.1	4.2	17.3				53.5
T	o	u	r	i	s	t	I	n	f	o			EM 2000
26.5	7.1	7.9	8.5	5.9	3.9	7	4.2	8	4.3	7.7	5.1	5.4	6.5

SIGN NUMBER: 106
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 7'-6"
 HEIGHT: 4'-0"
 TOTAL AREA: 30.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 82.0
 MAT'L: 0.125" ALUMINUM

SYMBOL	X	Y	WID	HT
Arrow Up	10.9	28.7	8	12
Arrow Left	7.1	7.3	8	12

DESIGN BY: TRT CHECKED BY: ADK/CAJ
 PROJECT ID: R-3307 DIV: 02 DATE: February 2012



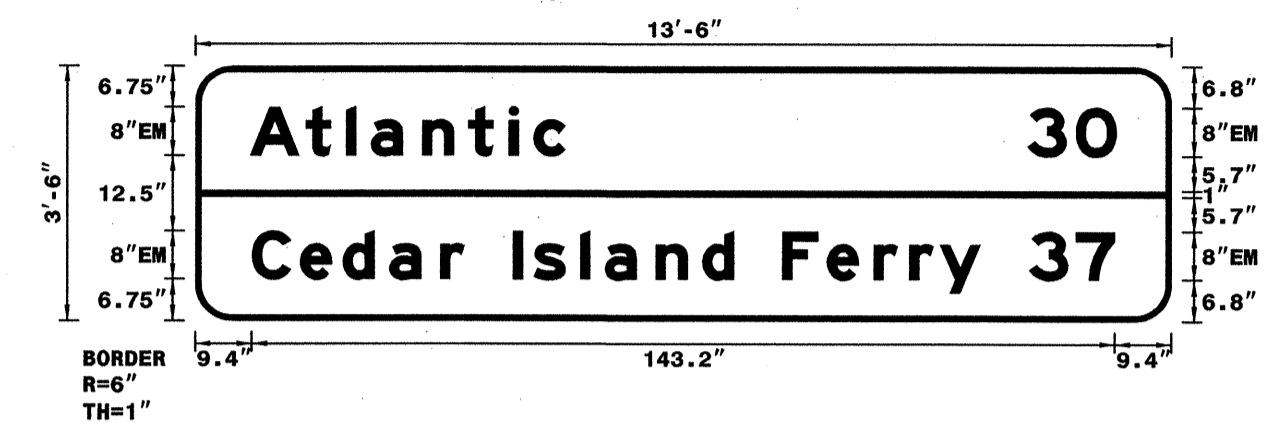
NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size
													Text Length
A	t	l	a	n	t	i	c						EM 2000
26.9	9.2	6.7	4.1	8.5	7.7	6.7	4.1	5.3	10.9				52.2
H	a	v	e	l	o	c	k						EM 2000
27.1	8.5	7.6	7.8	7.8	4.1	7.2	7.8	5.3	7.1				55.9

SIGN NUMBER: 107
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 13'-6"
 HEIGHT: 3'-0"
 TOTAL AREA: 40.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 154.0
 MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT
 PROJECT ID: R-3307
 CHECKED BY: ADK/CAJ
 DIV: 02
 DATE: February 2012



NOTES:
 1. Top panel: Legend and border shall be direct applied White Grade C reflective sheeting. Background shall be Green Grade C reflective sheeting.
 2. Bottom panel: Legend and border shall be direct applied White Grade C reflective sheeting. Background shall be Blue Grade C reflective sheeting.

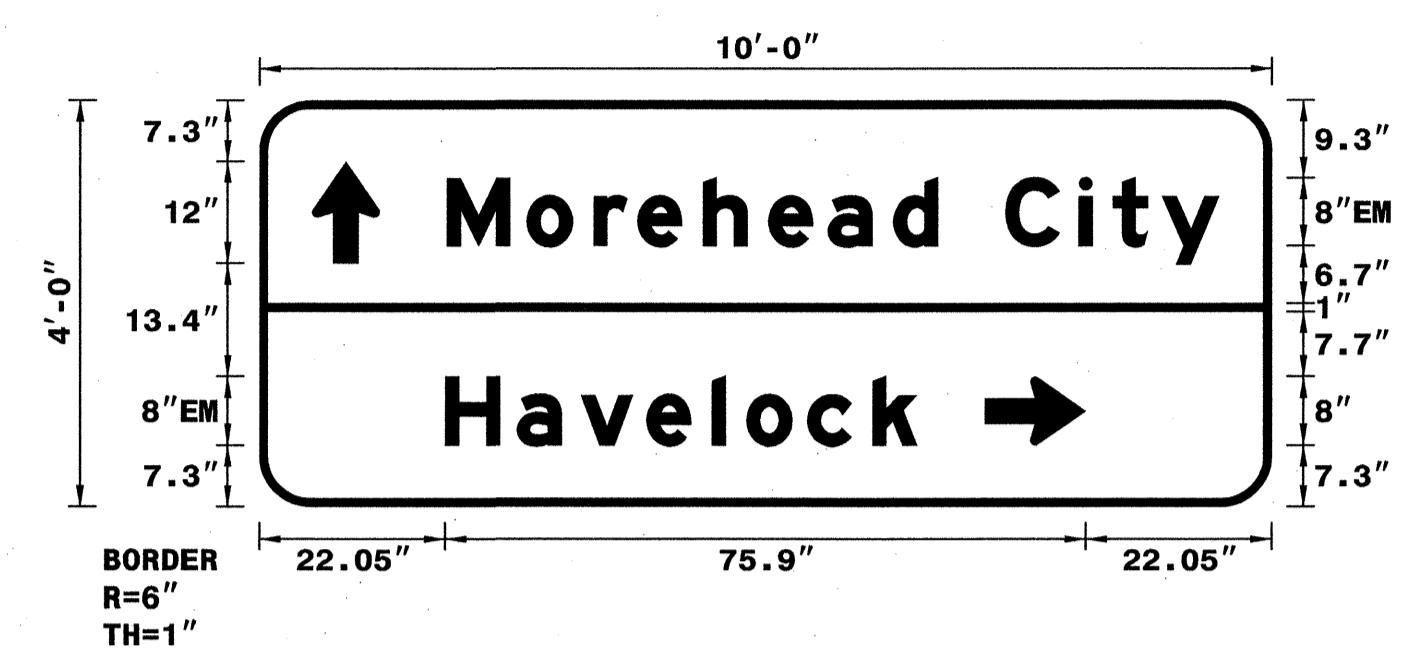
LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	52.2
EM 2000	14.8
EM 2000	121
EM 2000	14.2

SIGN NUMBER: 108
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 10'-0"
 HEIGHT: 4'-0"
 TOTAL AREA: 40.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 112.0
 MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT
 PROJECT ID: R-3307
 CHECKED BY: ADK/CAJ
 DIV: 02
 DATE: February 2012



NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

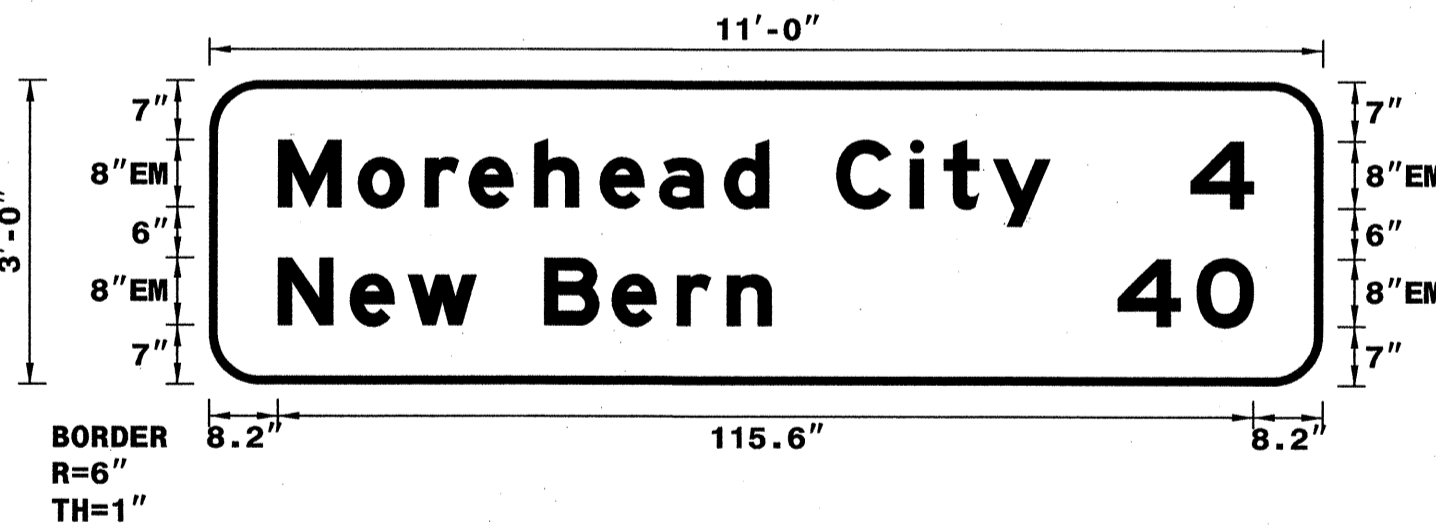
LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	91.5
EM 2000	55.9

SIGN NUMBER: 109
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 11'-0"
 HEIGHT: 3'-0"
 TOTAL AREA: 33.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 124.0
 MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT
 PROJECT ID: R-3307
 CHECKED BY: ADK/CAJ
 DIV: 02
 DATE: February 2012



NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

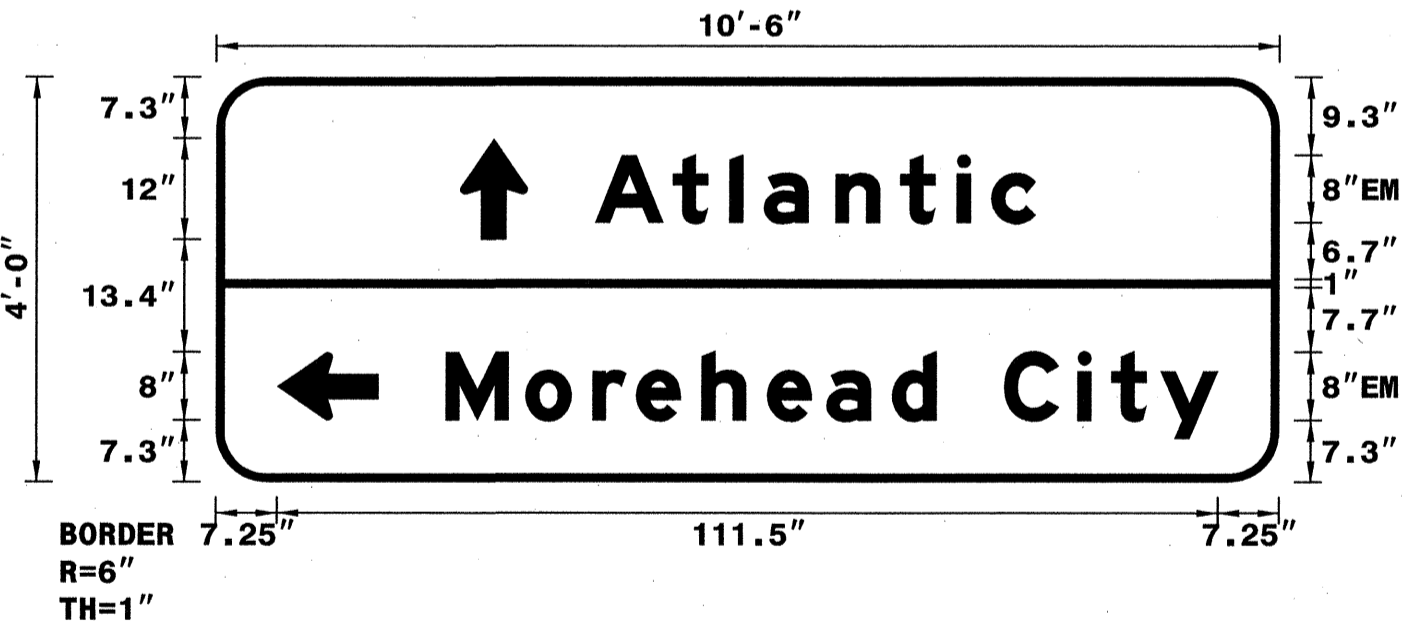
LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	91.5
EM 2000	7.4
EM 2000	58.5
EM 2000	16.1

SIGN NUMBER: 110
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 10'-6"
 HEIGHT: 4'-0"
 TOTAL AREA: 42.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 118.0
 MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT
 PROJECT ID: R-3307
 CHECKED BY: ADK/CAJ
 DIV: 02
 DATE: February 2012



NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

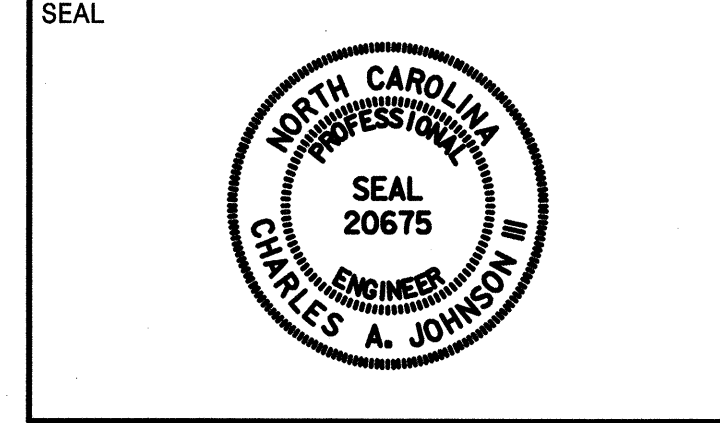
LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	52.2
EM 2000	91.5

APPROVED: *[Signature]*

DATE: 2-24-12



SIGN NUMBER: 301,304 BACKG COLOR: Green
 TYPE: D COPY COLOR: White
 QUANTITY: 2

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 4'-0"
 HEIGHT: 1'-6"
 TOTAL AREA: 6.0 Sq.Ft.

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"

NO. Z BARS: MAT'L: 0.125" ALUMINUM
 LENGTH:

DESIGN BY: TRT CHECKED BY: ADK/CAJ
 PROJECT ID: R-3307 DIV: 02 DATE: January 2012

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	40.9
D 2000	18

SIGN NUMBER: 302,313,316 BACKG COLOR: Green
 TYPE: D COPY COLOR: White
 QUANTITY: 3

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 5'-6"
 HEIGHT: 3'-6"
 TOTAL AREA: 19.3 Sq.Ft.

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"

NO. Z BARS: MAT'L: 0.125" ALUMINUM
 LENGTH:

DESIGN BY: ADK CHECKED BY: TRT/CAJ
 PROJECT ID: R-3307 DIV: 02 DATE: December 2011

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	39.8
EM 2000	9.4
E 2000	46.6
D 2000	27.5

SIGN NUMBER: 303,314,317 BACKG COLOR: Green
 TYPE: D COPY COLOR: White
 QUANTITY: 3

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 5'-6"
 HEIGHT: 2'-0"
 TOTAL AREA: 11.0 Sq.Ft.

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"

NO. Z BARS: MAT'L: 0.125" ALUMINUM
 LENGTH:

DESIGN BY: ADK CHECKED BY: TRT/CAJ
 PROJECT ID: R-3307 DIV: 02 DATE: December 2011

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	29.2
D 2000	39.1
D 2000	53.8

SIGN NUMBER: 305 BACKG COLOR: Green
 TYPE: D COPY COLOR: White
 QUANTITY: 1

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 4'-0"
 HEIGHT: 2'-0"
 TOTAL AREA: 8.0 Sq.Ft.

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"

NO. Z BARS: MAT'L: 0.125" ALUMINUM
 LENGTH:

DESIGN BY: ADK CHECKED BY: TRT/CAJ
 PROJECT ID: R-3307 DIV: 02 DATE: January 2012

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	34.7
D 2000	21.2

APPROVED: *[Signature]*

DATE: 2-24-12

SEAL



SIGN NUMBER: 306
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 4'-0"
 HEIGHT: 2'-6"
 TOTAL AREA: 10.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS:
 LENGTH:
 BACKG COLOR: Green
 COPY COLOR: White
 SYMBOL X Y WID HT

DESIGN BY: ADK
 PROJECT ID: R-3307
 CHECKED BY: TRT/CAJ
 DIV: 02
 DATE: December 2011



BORDER
 R=3"
 TH=0.75"

Spacing Factor is 1 unless specified otherwise
 Spacing Factor is 0.7 for "WHITE OAK"
 Spacing Factor is 0.7 for "RIVER BASIN"

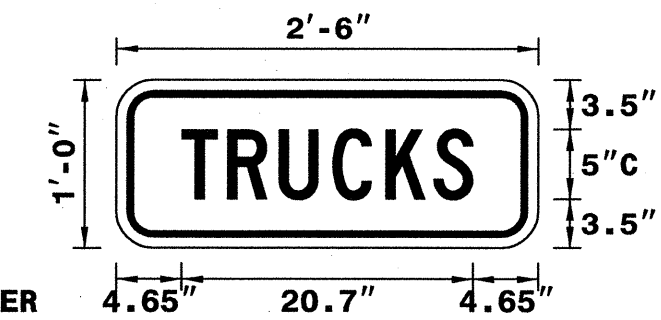
NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter														Series/Size
														Text Length
	P	A	R	T	O	F	T	H	E					D 2000
6.7	3	4	3	2.5	4	3.7	2.5	4	3.1	3.7	2.5	5.4		35.9
	W	H	I	T	E	O	A	K						D 2000
6.7	5	4.2	1.3	3.6	3.1	5	4	4.8	3.5	6.7				34.5
	R	I	V	E	R	B	A	S	I	N				D 2000
4.5	4	1.3	4.3	3.7	3.4	5	3.7	4.5	4	1.6	3.4	4.5		39

SIGN NUMBER: 307
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 2'-6"
 HEIGHT: 1'-0"
 TOTAL AREA: 2.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0.75"
 WIDTH: 0.5"
 RADII: 1.88"
 NO. Z BARS:
 LENGTH:
 BACKG COLOR: White
 COPY COLOR: Black
 SYMBOL X Y WID HT

DESIGN BY: TRT
 PROJECT ID: R-3307
 CHECKED BY: CAJ
 DIV: 02
 DATE: December 2011



BORDER
 R=1.88"
 TH=0.5"
 IN=0.75"

Spacing Factor is 1 unless specified otherwise

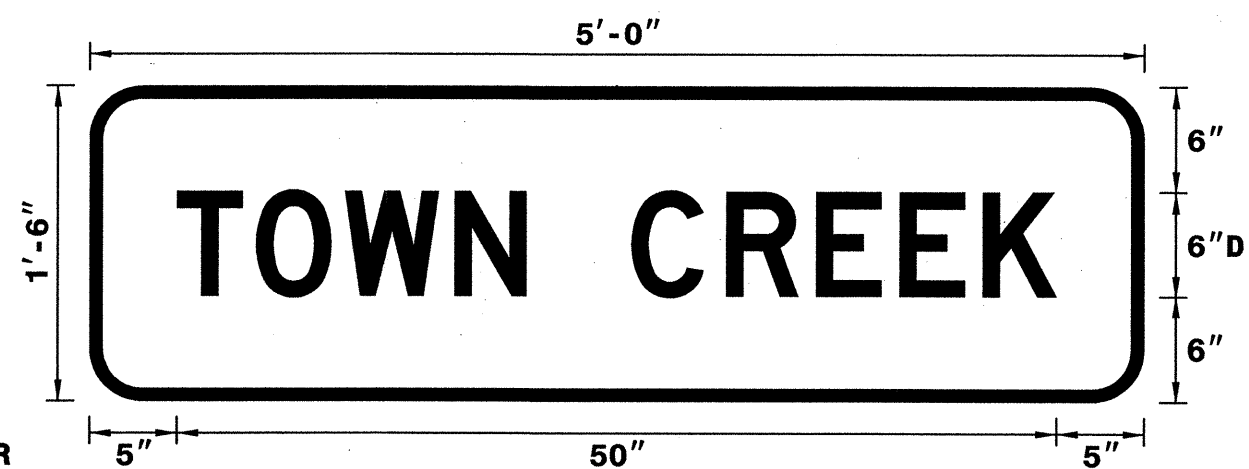
NOTES:
 1. Legend and border shall be direct applied non-reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter											Series/Size
											Text Length
	T	R	U	C	K	S					C 5
4.7	3.3	3.6	3.8	3.8	3.4	2.8	4.6				20.7

SIGN NUMBER: 308,319
 TYPE: D
 QUANTITY: 2
 SIGN WIDTH: 5'-0"
 HEIGHT: 1'-6"
 TOTAL AREA: 7.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS:
 LENGTH:
 BACKG COLOR: Green
 COPY COLOR: White
 SYMBOL X Y WID HT

DESIGN BY: ADK
 PROJECT ID: R-3307
 CHECKED BY: TRT/CAJ
 DIV: 02
 DATE: January 2012



BORDER
 R=3"
 TH=0.75"

Spacing Factor is 1 unless specified otherwise

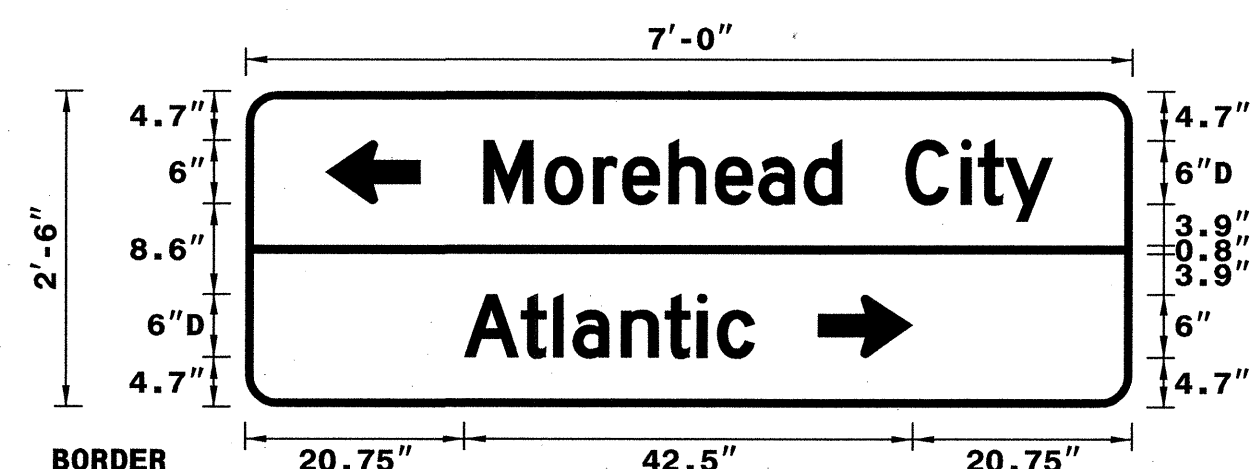
USE NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter														Series/Size
														Text Length
	T	O	W	N	C	R	E	E	K					D 2000
5	4.5	5	6.2	4.1	6	5.4	5.1	4.7	4.7	4.2	5			50

SIGN NUMBER: 309
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 7'-0"
 HEIGHT: 2'-6"
 TOTAL AREA: 17.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS:
 LENGTH:
 BACKG COLOR: Green/Green
 COPY COLOR: White
 SYMBOL X Y WID HT

DESIGN BY: ADK
 PROJECT ID: R-3307
 CHECKED BY: TRT/CAJ
 DIV: 02
 DATE: December 2011



BORDER
 R=3"
 TH=0.75"

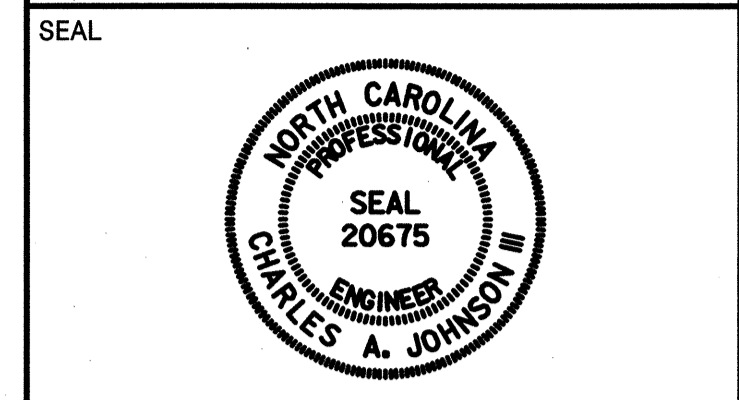
Spacing Factor is 1 unless specified otherwise

NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter																Series/Size
																Text Length
	M	o	r	e	h	e	a	d	C	i	t	y				D 2000
22.5	5.8	4.6	2.8	4.4	4.4	4.1	4.3	3.6	6	5.3	1.6	2.6	4.5	7.5	53.9	
	A	t	l	a	n	t	i	c							D 2000	
20.8	5.3	3.1	1.9	4.6	4.1	3.1	1.9	3.5	35.8						27.5	

APPROVED: *[Signature]*
 DATE: 2-24-12



SIGN NUMBER: 310
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 7'-0"
 HEIGHT: 3'-6"
 TOTAL AREA: 24.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS:
 LENGTH:

BACKG COLOR: Green/Green/Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARROW UP	19.6	29.3	6	9
ARROW LEFT	7.5	16.5	6	9
ARROW RIGHT	54.2	3.8	6	9

MAT'L: 0.125" ALUMINUM

DESIGN BY: ADK
 CHECKED BY: TRT/CAJ
 PROJECT ID: R-3307
 DIV: 02
 DATE: December 2011

NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	32.8
D 2000	53.9
D 2000	27.5

SIGN NUMBER: 311
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 7'-6"
 HEIGHT: 2'-0"
 TOTAL AREA: 15.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS:
 LENGTH:

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARROW LEFT	5.3	9	6	9

MAT'L: 0.125" ALUMINUM

DESIGN BY: ADK
 CHECKED BY: TRT/CAJ
 PROJECT ID: R-3307
 DIV: 02
 DATE: December 2011

NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	64.4
D 2000	16.3

SIGN NUMBER: 312
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 7'-6"
 HEIGHT: 2'-0"
 TOTAL AREA: 15.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS:
 LENGTH:

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARROW RIGHT	75.7	9	6	9

MAT'L: 0.125" ALUMINUM

DESIGN BY: ADK
 CHECKED BY: TRT/CAJ
 PROJECT ID: R-3307
 DIV: 02
 DATE: December 2011

NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	64.4
D 2000	16.3

SIGN NUMBER: 315
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 7'-0"
 HEIGHT: 2'-6"
 TOTAL AREA: 17.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS:
 LENGTH:

BACKG COLOR: Green/Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARROW LEFT	20.8	19.3	6	9
ARROW RIGHT	67.5	4.7	6	9

MAT'L: 0.125" ALUMINUM

DESIGN BY: ADK
 CHECKED BY: TRT/CAJ
 PROJECT ID: R-3307
 DIV: 02
 DATE: December 2011

NOTES:
 1. Legend and border shall be direct applied Grade C reflective sheeting.
 2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

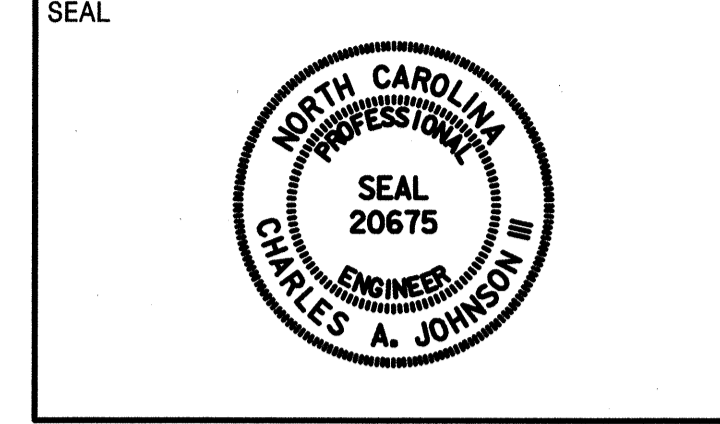
LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	27.5
D 2000	53.9

APPROVED: *[Signature]*

DATE: 2-24-12



SIGN NUMBER: 318
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 7'-0"
 HEIGHT: 2'-0"
 TOTAL AREA: 14.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS: LENGTH:

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARROW RIGHT	67.5	9	6	9

DESIGN BY: ADK
 PROJECT ID: R-3307
 CHECKED BY: TRT/CAJ
 DIV: 02
 DATE: December 2011

BORDER R=3" TH=0.75"

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text	Length
D 2000	M o r e h e a d C i t y	53.9
D 2000	A t l a n t i c	27.5

SIGN NUMBER: 320
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 6'-0"
 HEIGHT: 2'-6"
 TOTAL AREA: 15.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS: LENGTH:

BACKG COLOR: Green/Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARROW UP	10.4	17.1	6	9
ARROW LEFT	7.5	3.9	6	9

DESIGN BY: ADK
 PROJECT ID: R-3307
 CHECKED BY: TRT/CAJ
 DIV: 02
 DATE: December 2011

BORDER R=3" TH=0.75"

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text	Length
EM 2000	A t l a n t i c	39.2
EM 2000	H a v e l o c k	41.9

SIGN NUMBER: 321
 TYPE: D
 QUANTITY: 1
 SIGN WIDTH: 7'-0"
 HEIGHT: 2'-0"
 TOTAL AREA: 14.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 0.75"
 RADII: 3"
 NO. Z BARS: LENGTH:

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARROW RIGHT	67.5	9	6	9

DESIGN BY: ADK
 PROJECT ID: R-3307
 CHECKED BY: TRT/CAJ
 DIV: 02
 DATE: December 2011



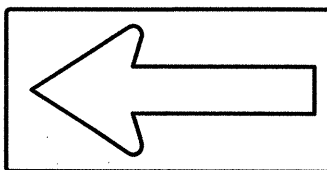
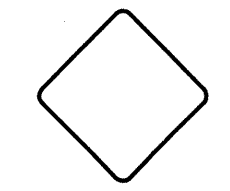
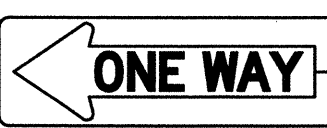

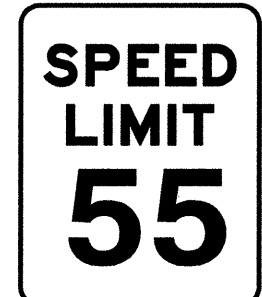

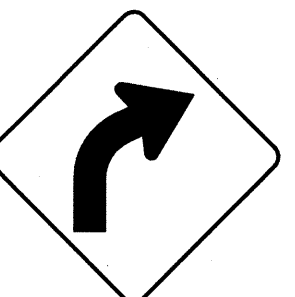
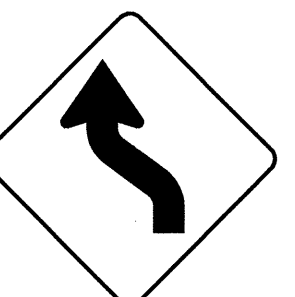
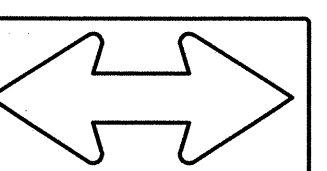
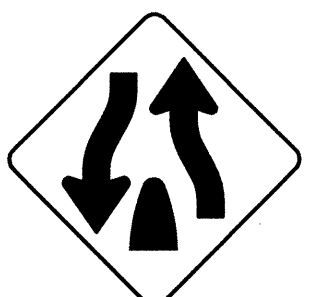

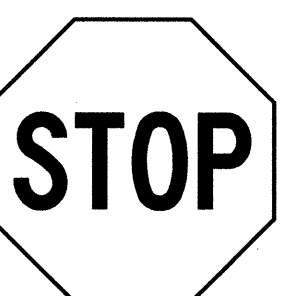
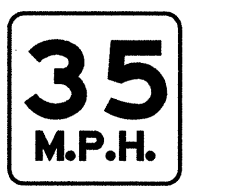

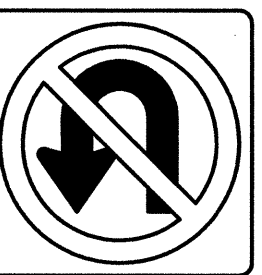



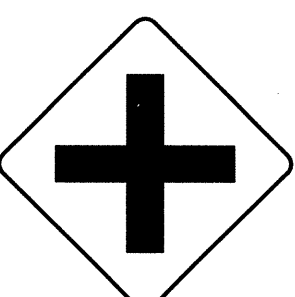
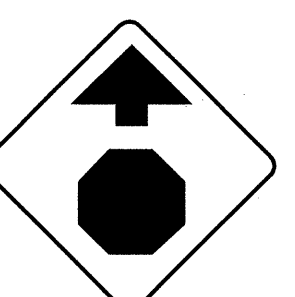

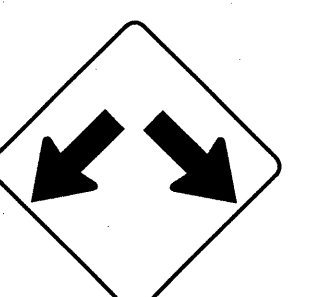
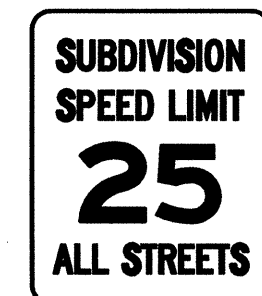
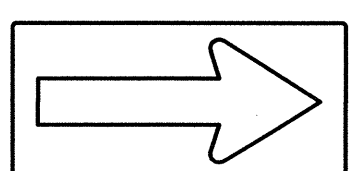
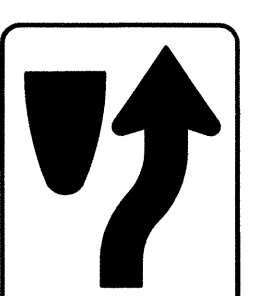

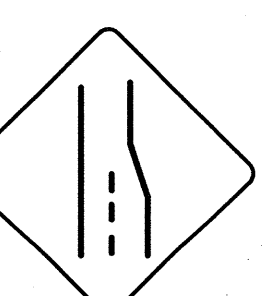

BORDER R=3" TH=0.75"

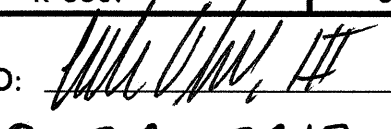

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

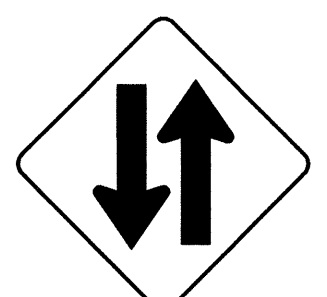
Letter spacings are to start of next letter

Series/Size	Text	Length
D 2000	M o r e h e a d C i t y	53.9
D 2000	H a v e l o c k	32.8

<p>401 QUANTITY REQ'D 1</p>  <p>36 X 36 W6-1</p> <p>ONE WOOD POST PER SIGN</p>	<p>406 QUANTITY REQ'D 2</p>  <p>36 X 36 W1-2 (L)</p> <p>ONE WOOD POST PER SIGN</p>	<p>411 QUANTITY REQ'D 1</p>  <p>48 X 24 W1-6 (L)</p> <p>TWO WOOD POSTS PER SIGN</p>	<p>416 QUANTITY REQ'D 11</p>  <p>18 X 18 OM1-3</p> <p>MOUNTED BELOW SIGN 415 IN 11 INSTALLATIONS</p>	<p>421 QUANTITY REQ'D 5</p>  <p>54 X 18 R6-1 (L)</p> <p>TWO WOOD POSTS PER SIGN</p>	<p>426 QUANTITY REQ'D 1</p>  <p>36 X 36 W4-9 (R)</p> <p>ONE WOOD POST PER SIGN</p>
<p>402 QUANTITY REQ'D 5</p>  <p>30 X 36 R2-1</p> <p>ONE WOOD POST PER SIGN</p>	<p>407 QUANTITY REQ'D 10</p>  <p>36 X 36 W14-2</p> <p>ONE WOOD POST PER SIGN</p>	<p>412 QUANTITY REQ'D 2</p>  <p>36 X 36 W1-2 (R)</p> <p>ONE BARRIER SUPPORT (LARGE) PER SIGN</p>	<p>417 QUANTITY REQ'D 2</p>  <p>36 X 36 W1-4 (L)</p> <p>ONE WOOD POST PER SIGN</p>	<p>422 QUANTITY REQ'D 1</p>  <p>54 X 18 W1-7</p> <p>TWO WOOD POSTS PER SIGN</p>	<p>427 QUANTITY REQ'D 1</p>  <p>36 X 36 W6-2</p> <p>ONE WOOD POST PER SIGN</p>
<p>403 QUANTITY REQ'D 14</p>  <p>30 X 36 R2-1</p> <p>ONE WOOD POST PER SIGN IN 9 INSTALLATIONS ONE BARRIER SUPPORT (LARGE) PER SIGN IN 5 INSTALLATIONS</p>	<p>408 QUANTITY REQ'D 19</p>  <p>36 X 36 R1-1</p> <p>ONE WOOD POST PER SIGN IN 15 INSTALLATIONS TWO WOOD POSTS PER SIGN IN 4 INSTALLATIONS</p>	<p>413 QUANTITY REQ'D 6</p>  <p>18 X 18 W13-1P</p> <p>MOUNTED BELOW SIGN 406 SIGN IN 2 INSTALLATIONS MOUNTED BELOW SIGN 412 SIGN IN 2 INSTALLATIONS MOUNTED BELOW SIGN 414 SIGN IN 2 INSTALLATIONS</p>	<p>418 QUANTITY REQ'D 2</p>  <p>18 X 18 W13-1P</p> <p>MOUNTED BELOW SIGN 417 IN 2 INSTALLATIONS</p>	<p>423 QUANTITY REQ'D 3</p>  <p>36 X 36 R3-4</p> <p>ONE WOOD POST PER SIGN</p>	<p>428 QUANTITY REQ'D 1</p>  <p>36 X 36 R5-1</p> <p>ONE WOOD POST PER SIGN</p>
<p>404 QUANTITY REQ'D 5</p>  <p>30 X 36 R2-1</p> <p>ONE WOOD POST PER SIGN</p>	<p>409 QUANTITY REQ'D 4</p>  <p>18 X 6 R3-1P</p> <p>MOUNTED BELOW SIGN 408 IN 4 INSTALLATIONS</p>	<p>414 QUANTITY REQ'D 2</p>  <p>36 X 36 W2-1</p> <p>ONE BARRIER SUPPORT (LARGE) PER SIGN</p>	<p>419 QUANTITY REQ'D 2</p>  <p>36 X 36 W3-1</p> <p>ONE WOOD POST PER SIGN</p>	<p>424 QUANTITY REQ'D 3</p>  <p>48 X 48 W3-5</p> <p>TWO WOOD POSTS PER SIGN</p>	<p>429 QUANTITY REQ'D 1</p>  <p>36 X 36 W12-1</p> <p>ONE WOOD POST PER SIGN</p>
<p>405 QUANTITY REQ'D 2</p>  <p>24 X 30 R2-1</p> <p>ONE WOOD POST PER SIGN</p>	<p>410 QUANTITY REQ'D 1</p>  <p>48 X 24 W1-6 (R)</p> <p>TWO WOOD POSTS PER SIGN</p>	<p>415 QUANTITY REQ'D 11</p>  <p>24 X 30 R4-7</p> <p>ONE WOOD POST PER SIGN</p>	<p>420 QUANTITY REQ'D 4</p>  <p>54 X 18 R6-1 (R)</p> <p>MOUNTED ABOVE SIGN 408 IN 4 INSTALLATIONS</p>	<p>425 QUANTITY REQ'D 3</p>  <p>36 X 36 W4-2 (L)</p> <p>ONE WOOD POST PER SIGN</p>	<p>430 QUANTITY REQ'D 2</p>  <p>36 X 36 R3-7 (R)</p> <p>ONE WOOD POST PER SIGN</p>

TIP NO. R-3307	SHEET NO. SIGN-3G
APPROVED: 	
DATE: 9-26-2012	
SEAL	
	


431 QUANTITY REQ'D 1



36 X 36
W6-3

ONE WOOD POST PER SIGN

432 QUANTITY REQ'D 1



24 X 30
R2-1

ONE WOOD POST PER SIGN


<p>501 504 526 529 560</p> <p>JCT 1 - 21 X 15 BUSINESS 1 - 24 X 12 70 1 - 24 X 24</p>	<p>507 518</p> <p>WEST EAST 2 - 24 X 12 70 70 2 - 24 X 24 ← → 2 - 21 X 15</p>	<p>514</p> <p>EAST WEST 2 - 24 X 12 101 101 2 - 24 X 24 ← → 2 - 21 X 15 HURRICANE EVACUATION ROUTE 1 - 24 X 24 EM-1</p>	<p>524</p> <p>EAST WEST 2 - 24 X 12 70 70 2 - 24 X 24 ← → 2 - 21 X 15</p>	<p>533</p> <p>TO 1 - 24 X 12 WEST EAST 2 - 24 X 12 70 70 2 - 24 X 24 → → 2 - 21 X 15</p>	<p>542 544</p> <p>EAST 1 - 24 X 12 BUSINESS 1 - 24 X 12 70 1 - 24 X 24 ↙ 1 - 21 X 15</p>
<p>502</p> <p>EAST 1 - 24 X 12 EAST BUSINESS 2 - 24 X 12 70 70 2 - 24 X 24 ↑ → 2 - 21 X 15</p>	<p>508 512</p> <p>JCT 1 - 21 X 15 101 1 - 24 X 24</p>	<p>516 523 532 540</p> <p>JCT 1 - 21 X 15 70 1 - 24 X 24</p>	<p>525</p> <p>EAST 1 - 24 X 12 101 1 - 24 X 24</p>	<p>534 539 547 554</p> <p>WEST 1 - 24 X 12 BUSINESS 1 - 24 X 12 70 1 - 24 X 24</p>	<p>543 546 556</p> <p>EAST 1 - 24 X 12 BUSINESS 1 - 24 X 12 70 1 - 24 X 24 ← 1 - 21 X 15</p>
<p>503 511 535</p> <p>EAST 1 - 24 X 12 70 1 - 24 X 24</p>	<p>509 520 545</p> <p>↑ 1 - 24 X 24 ← 1 - 21 X 15</p> <p>SIGN 520 MOUNTED BELOW SIGN 311</p>	<p>517</p> <p>↑ 1 - 24 X 24 ↑ 1 - 21 X 15</p>	<p>527 538 550</p> <p>WEST 1 - 24 X 12 BUSINESS 1 - 24 X 12 70 1 - 24 X 24 → 1 - 21 X 15</p>	<p>536 541 548 552</p> <p>EAST 1 - 24 X 12 BUSINESS 1 - 24 X 12 70 1 - 24 X 24</p>	<p>551</p> <p>EAST 1 - 24 X 12 WEST BUSINESS 2 - 24 X 12 101 70 2 - 24 X 24 ← ↑ 2 - 21 X 15 HURRICANE EVACUATION ROUTE 1 - 24 X 24 EM-1</p>
<p>505 530</p> <p>EAST 1 - 24 X 12 BUSINESS WEST 2 - 24 X 12 70 70 2 - 24 X 24 ← ↑ 2 - 21 X 15</p>	<p>510</p> <p>WEST EAST 2 - 24 X 12 101 101 2 - 24 X 24 ← → 2 - 21 X 15 HURRICANE EVACUATION ROUTE 1 - 24 X 24 EM-1</p>	<p>519 559</p> <p>WEST 1 - 24 X 12 101 1 - 24 X 24 ↑ HURRICANE EVACUATION ROUTE 1 - 24 X 24</p>	<p>528</p> <p>TO 1 - 24 X 12 WEST EAST 2 - 24 X 12 70 70 2 - 24 X 24 ↪ ↑ 2 - 21 X 15 1 - 24 X 24 RNC3-26</p>	<p>537 549</p> <p>WEST 1 - 24 X 12 BUSINESS 1 - 24 X 12 70 1 - 24 X 24 ↪ 1 - 21 X 15</p>	<p>553</p> <p>WEST 1 - 24 X 12 BUSINESS WEST 2 - 24 X 12 70 101 2 - 24 X 24 ↑ ↗ 2 - 21 X 15 HURRICANE EVACUATION ROUTE 1 - 24 X 24 EM-1</p>
<p>506 515</p> <p>WEST 1 - 24 X 12 70 1 - 24 X 24</p>	<p>513 522</p> <p>↑ 1 - 24 X 24 → 1 - 21 X 15</p> <p>SIGN 522 MOUNTED BELOW SIGN 312</p>	<p>521</p> <p>↑ 1 - 24 X 24 ↪ 1 - 21 X 15</p>	<p>531</p> <p>WEST 1 - 24 X 12 70 1 - 24 X 24 ↑ HURRICANE EVACUATION ROUTE 1 - 24 X 24</p>		

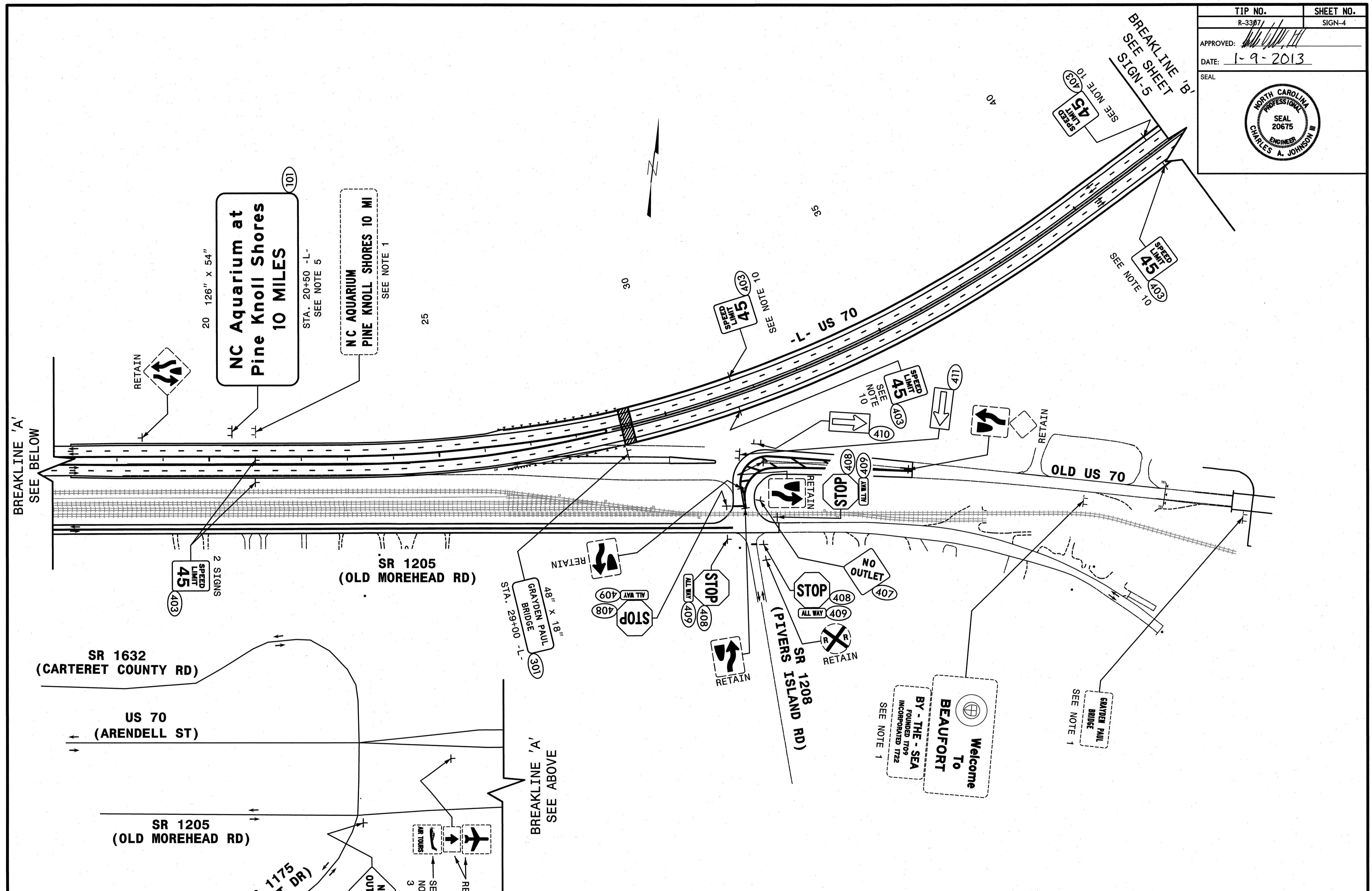
TIP NO. R-3307 SHEET NO. SIGN-3H

APPROVED: *[Signature]*

DATE: 2-24-12

SEAL

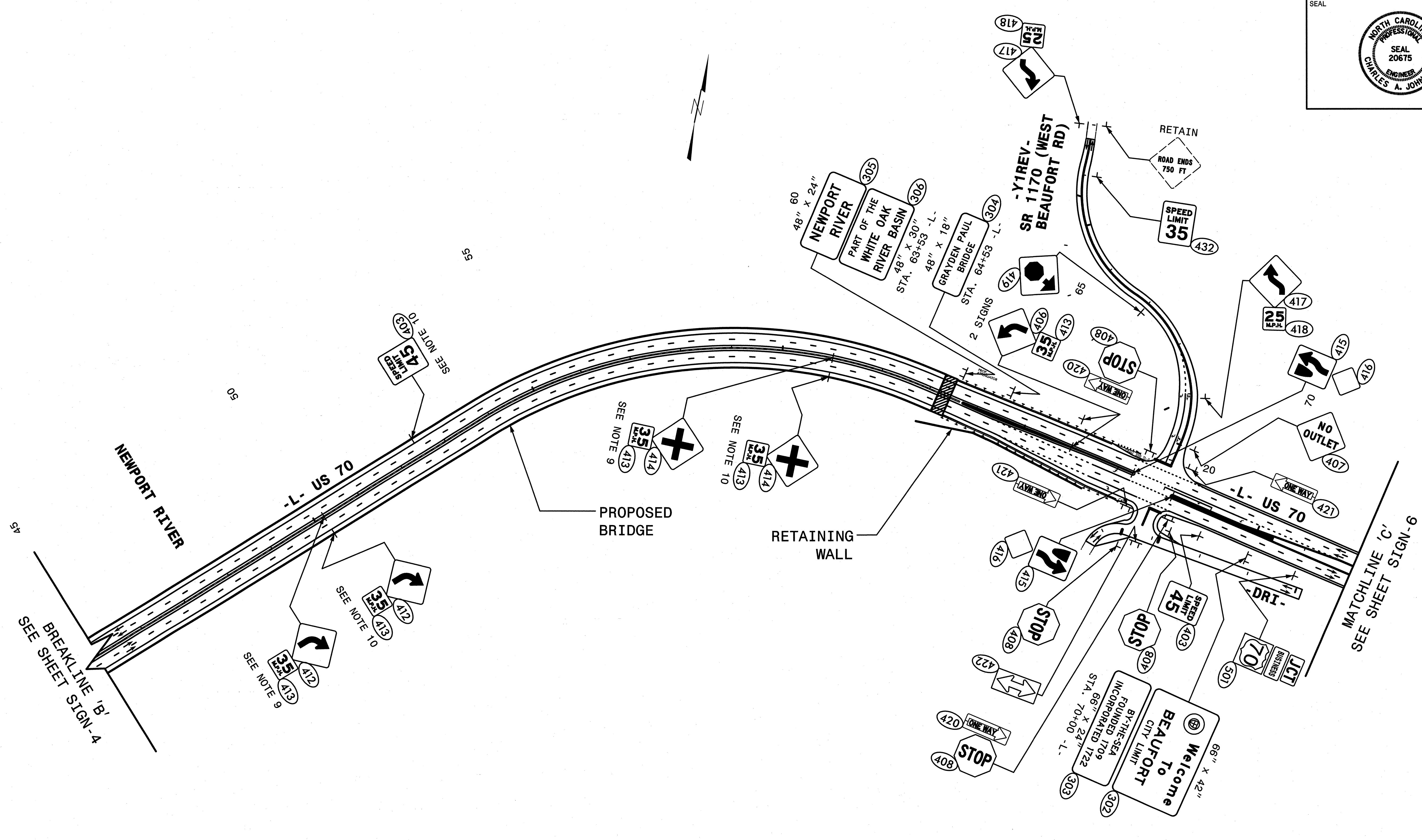




NOTE:
REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.
ALL PROPOSED SIGNS SEE NOTE 8 UNLESS OTHERWISE NOTED.

HNTB HNTB NORTH CAROLINA, P.C.
943 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

EXISTING AND PROPOSED SIGNS
STA. 17+00 TO 41+00

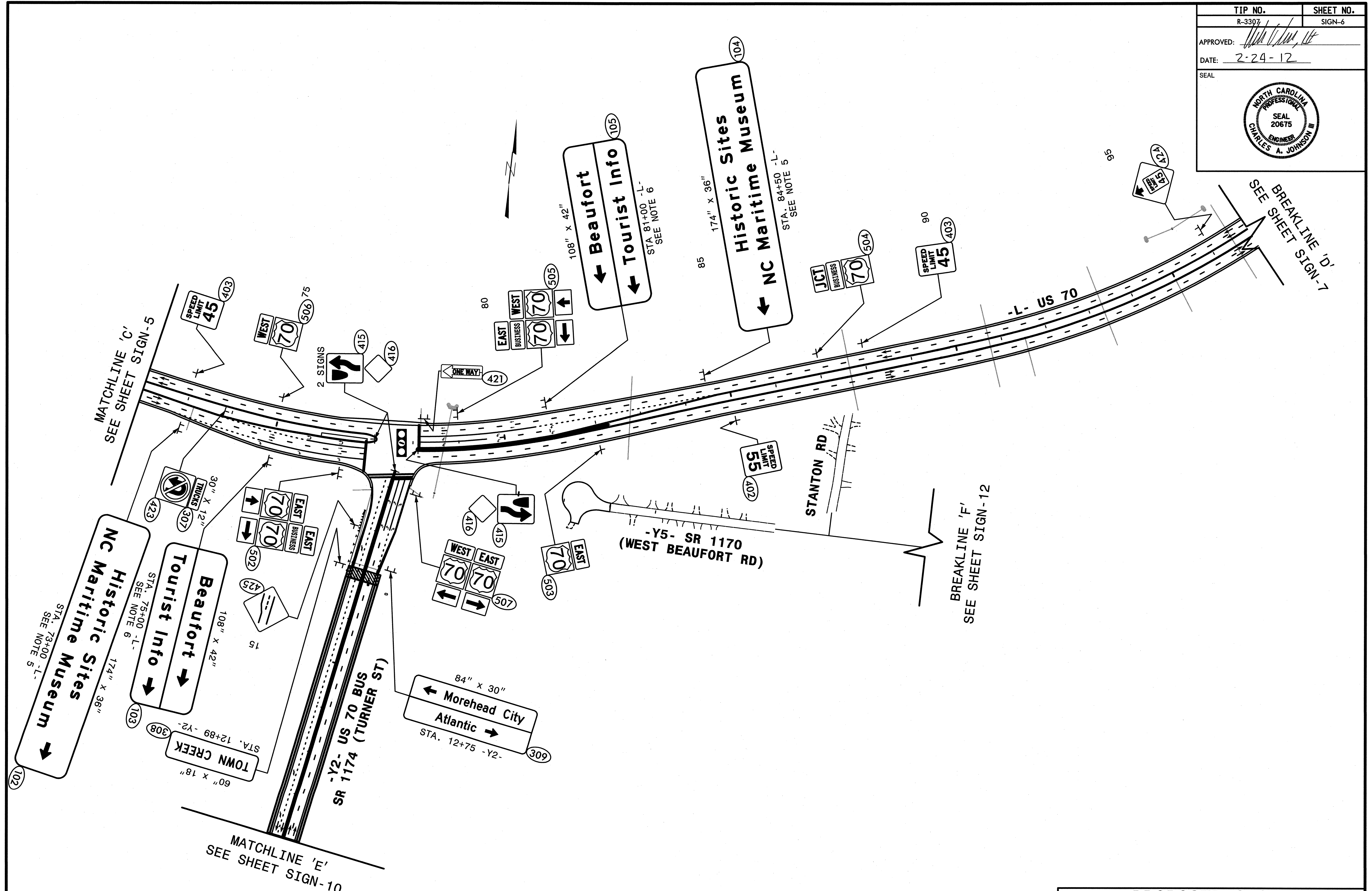


NOTE:
 REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.
 ALL PROPOSED SIGNS SEE NOTE 8 UNLESS OTHERWISE NOTED.

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

PROPOSED SIGNS
STA. 45+00 TO 72+00

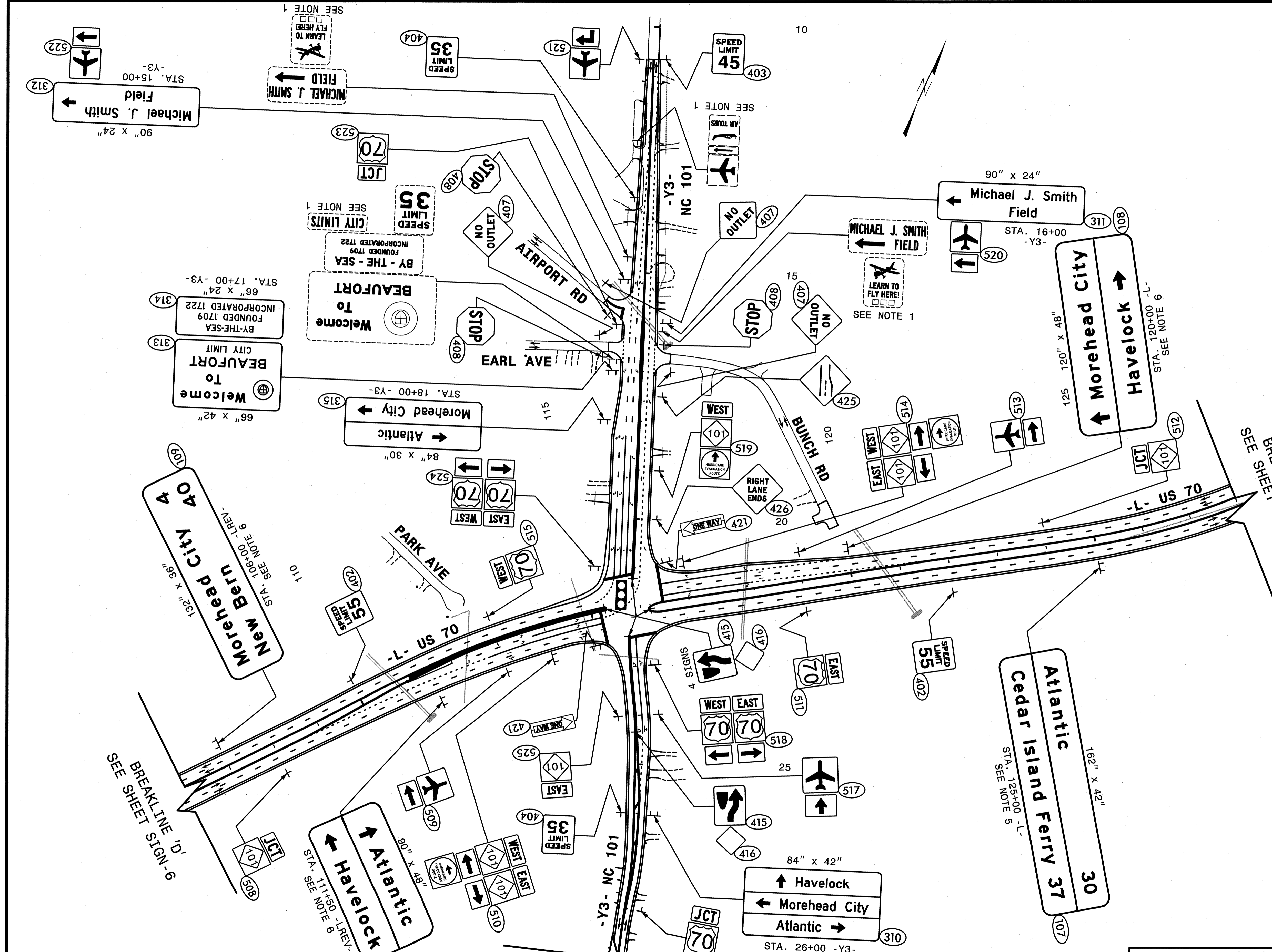
TIP NO.	SHEET NO.
R-3307	SIGN-6
APPROVED: <i>[Signature]</i>	
DATE: 2-24-12	
SEAL	



NOTE:
 REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN PROJECT LIMITS UNLESS OTHERWISE NOTED.
 ALL PROPOSED SIGNS SEE NOTE 8 UNLESS OTHERWISE NOTED.

HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554

PROPOSED SIGNS
 STA. 73+00 TO 89+00 -L-
 STA. 10+00 TO -Y2- 19+00

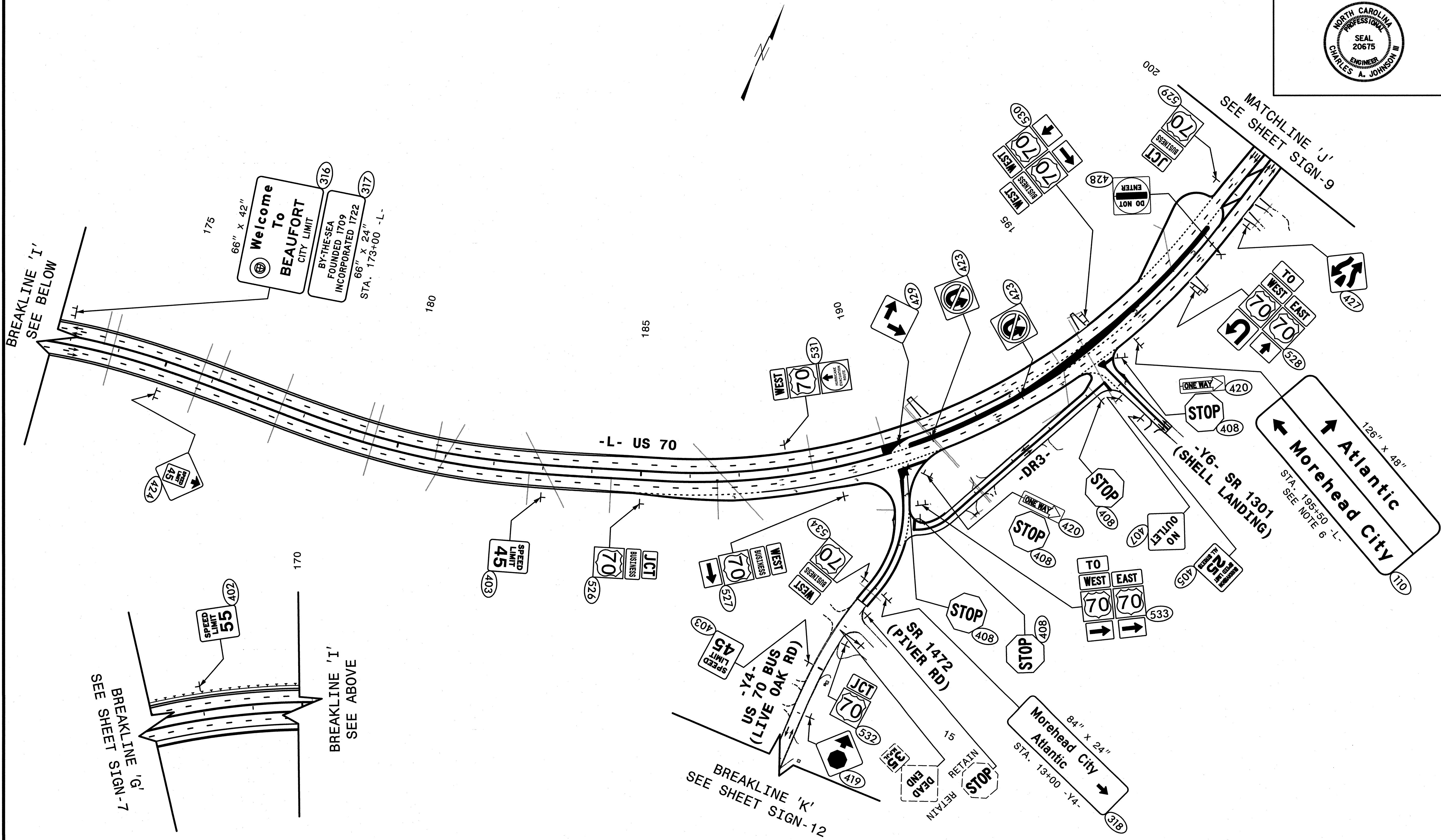


NOTE:
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BREAKLINE 'H'
SEE SHEET SIGN-12

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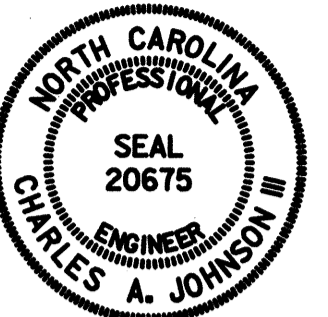
PROPOSED SIGNS
STA. 106+00 TO 127+00 -L-
STA. 10+00 TO 29+00 -Y3-

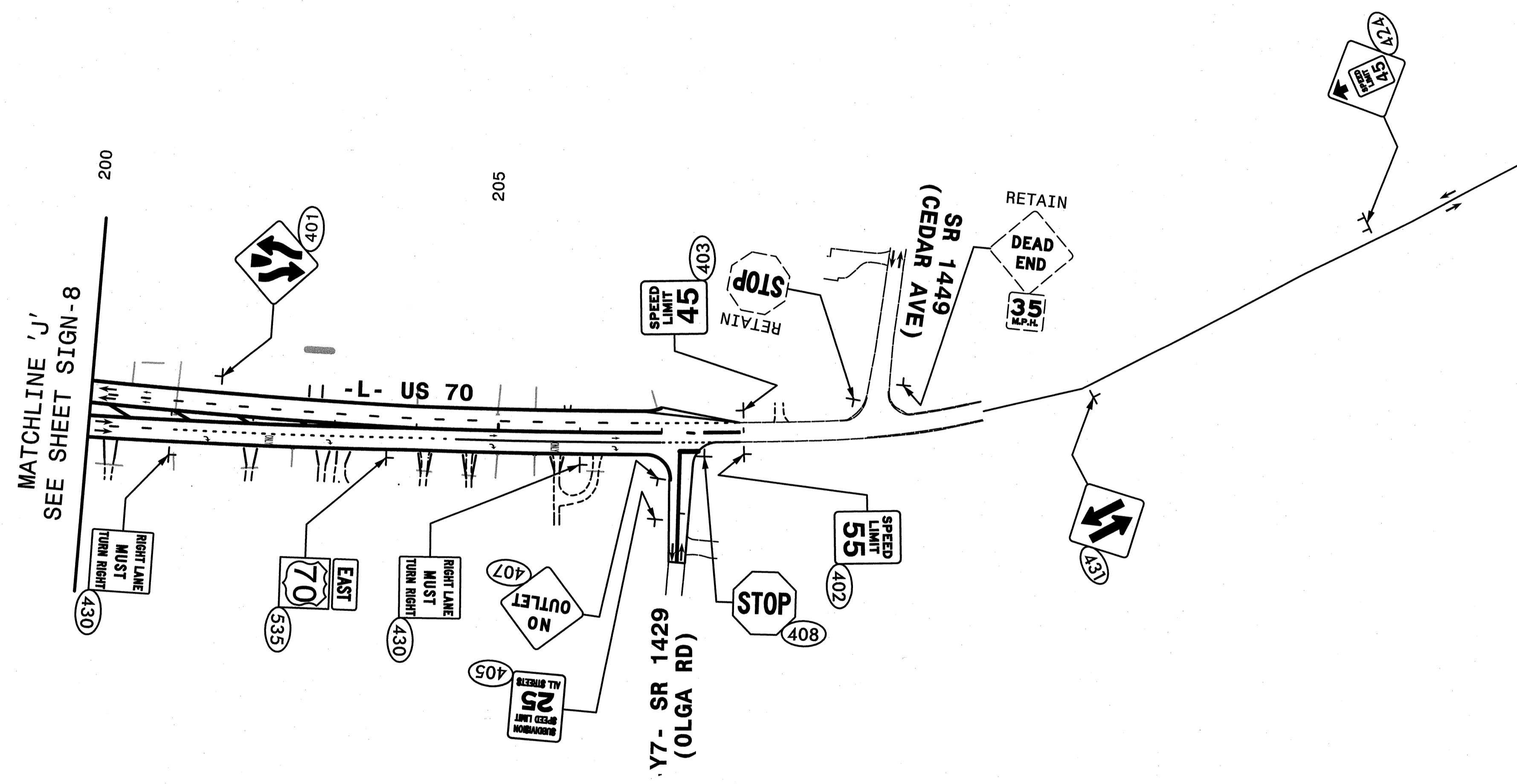


NOTE:
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EXISTING & PROPOSED SIGNS
 STA. 174+00 TO 200+00 - L-
 STA. 10+00 TO 17+00 -Y4-


TIP NO. R-3307	SHEET NO. SIGN-9
APPROVED: <i>[Signature]</i>	
DATE: 2-24-12	
SEAL	
	

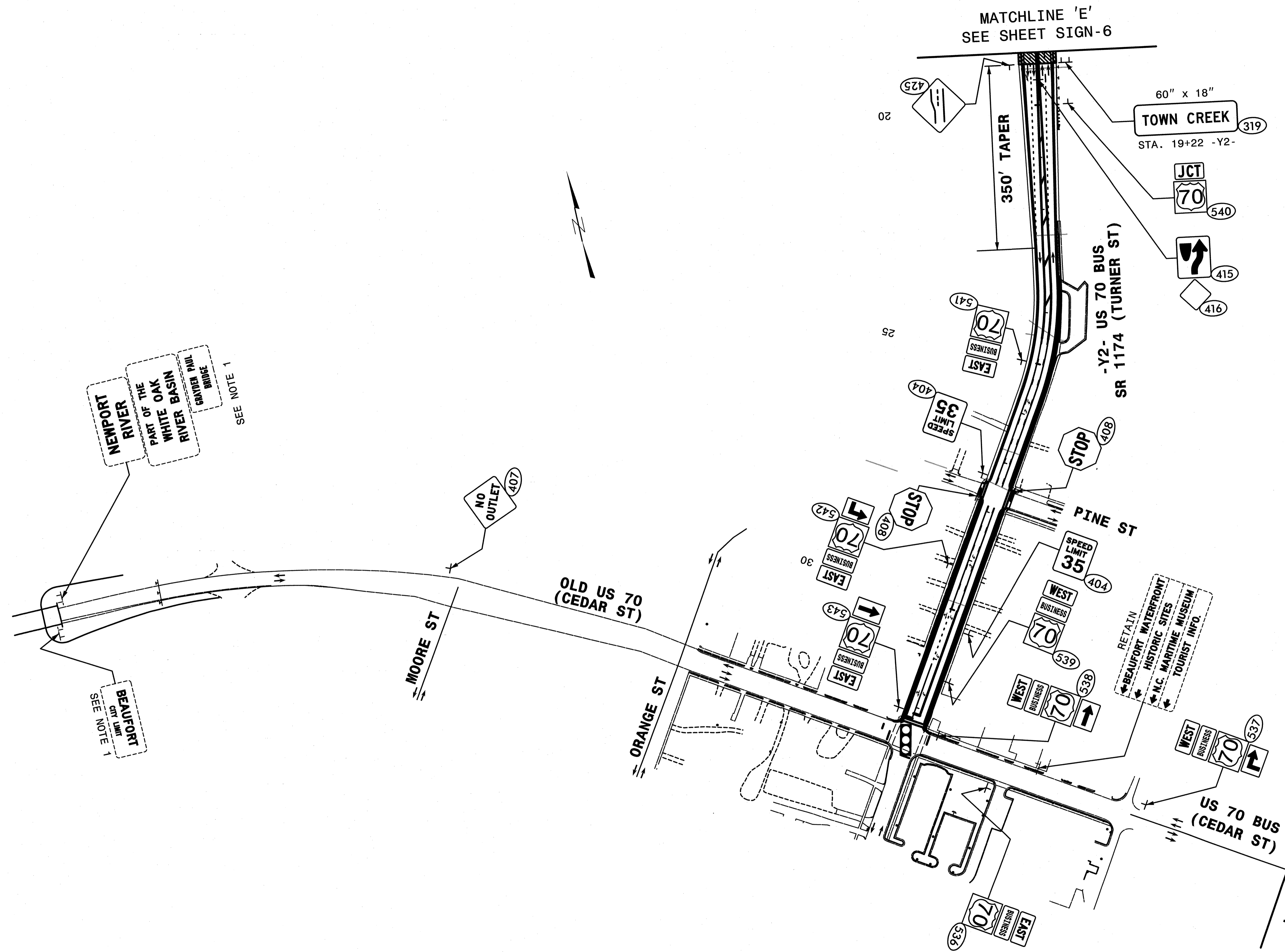


NOTE:
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**EXISTING AND
 PROPOSED SIGNS
 STA. 200+00 TO 208+00**


TIP NO. R-3207	SHEET NO. SIGN-10
APPROVED: <i>[Signature]</i>	
DATE: 2-24-12	
SEAL	
	

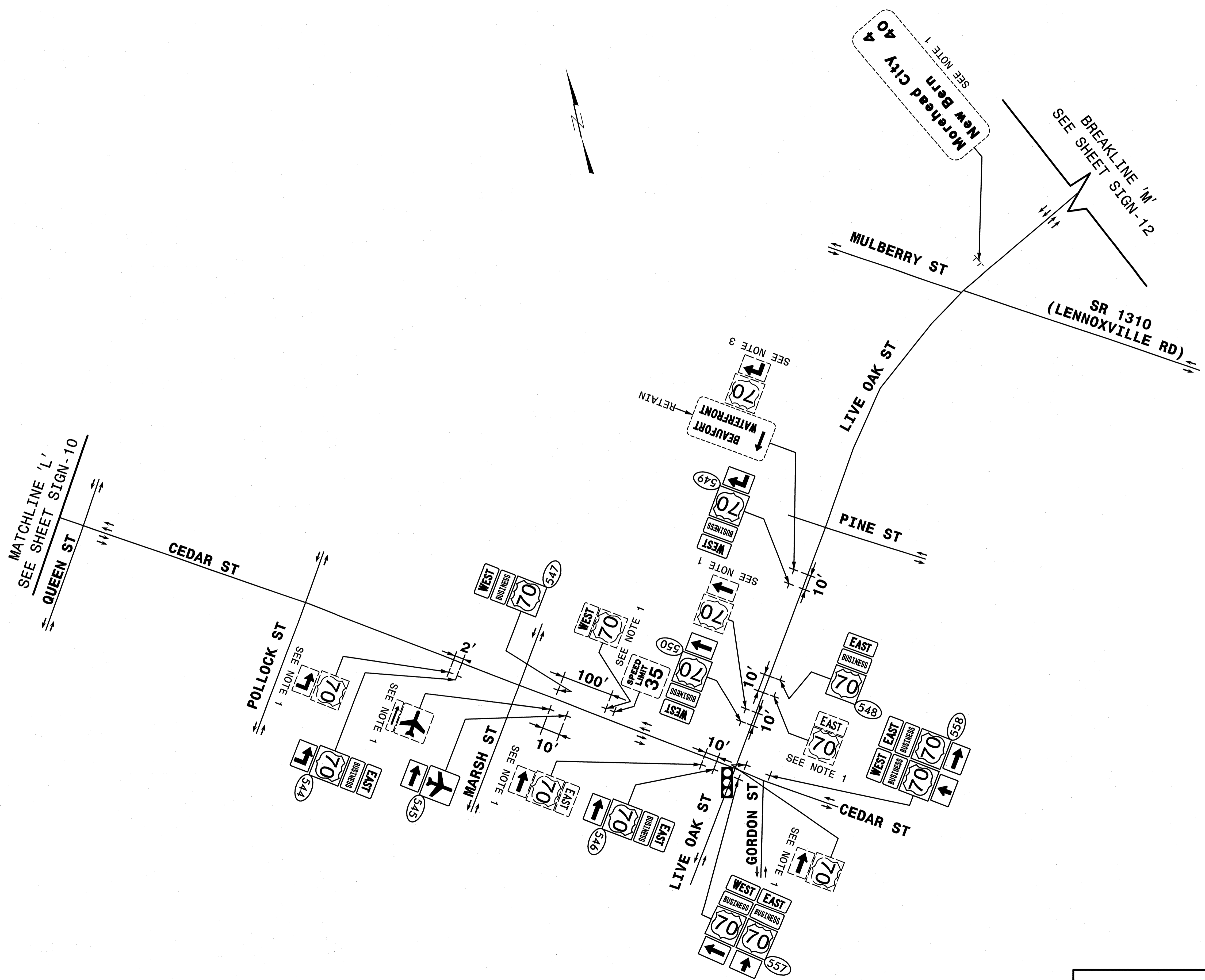


NOTE:
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EXISTING AND PROPOSED SIGNS
STA. 19+00 TO 32+50 -Y2-

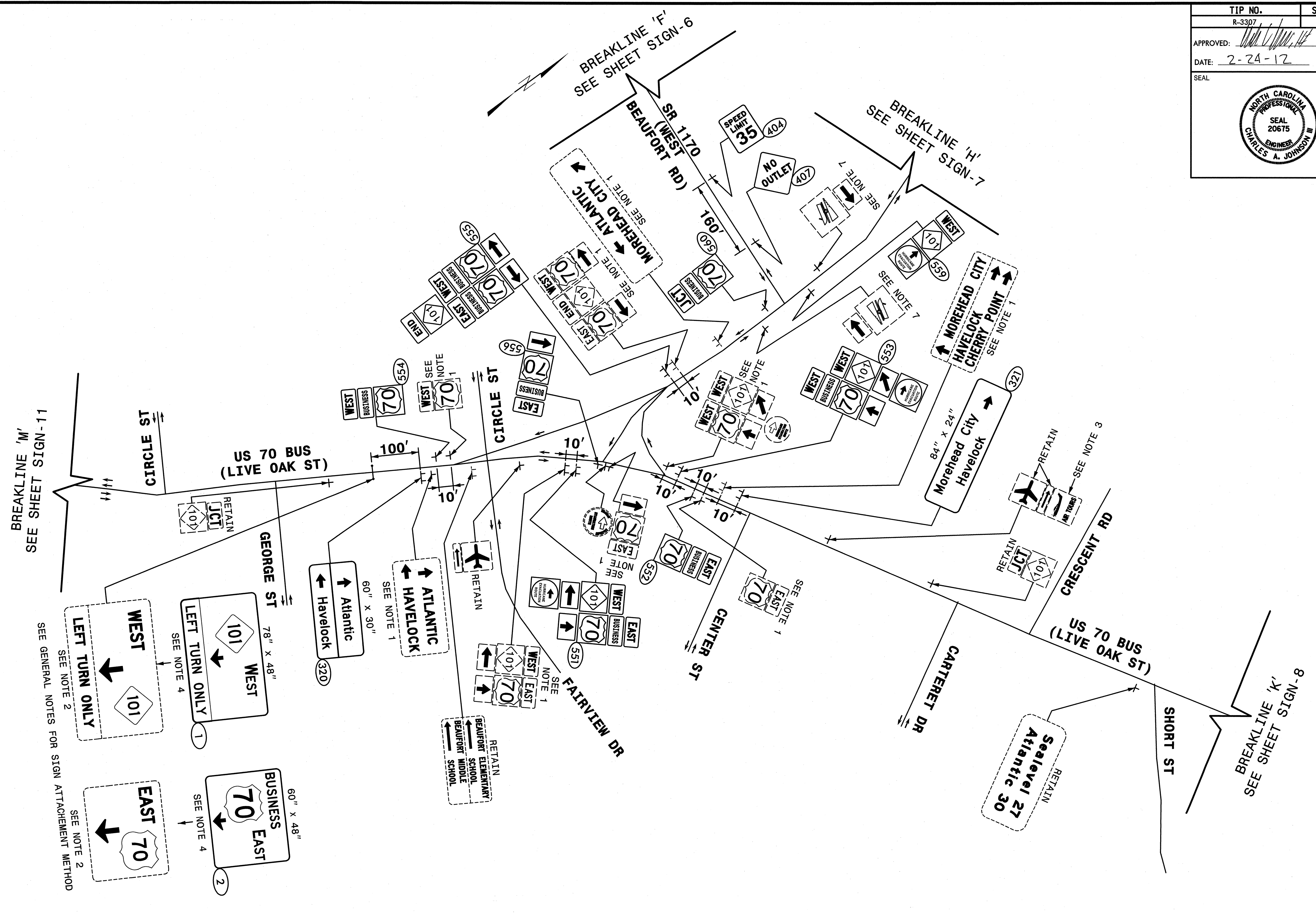
TIP NO. R-3307	SHEET NO. SIGN-11
APPROVED: <i>[Signature]</i>	
DATE: 2-24-12	
SEAL	
	



NOTE:
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**EXISTING AND
 PROPOSED SIGNS**



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EXISTING AND PROPOSED SIGNS