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T.I.P.: U-2524BC

CONTRACT: C203290

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
GUILFORD COUNTY**

**LOCATION: GREENSBORO WESTERN LOOP (I-73 CONNECTOR) FROM I-73 /I-840
TO SR 2085 (JOSEPH BRYAN BLVD) INTERCHANGE**

TIP NO. U-2524BC	SHEET NO. SIGN-1
<small>Designed by:</small> APPROVED: <u>Charles A. Johnson, III</u> <small>SA150584775446</small>	
DATE: 3/3/2015	
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
901.50	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 (EXCEPT 1 OF 3 WHICH IS REPLACED WITH SIGN-2A AND 2 OF 3 WHICH IS REPLACED WITH SIGN-2B IN PLANS)
903.30	BARRIER SIGN SUPPORT ASSEMBLY
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

PAY ITEM NOTES

- 1 SIGN ERECTION, TYPE E
- 2 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 3 DISPOSAL OF SIGN SYSTEM, OVERHEAD
- 4 DISPOSAL OF SIGN SYSTEM, U-CHANNEL

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1	C.Y.
4057000000	SP	OVERHEAD FOOTING	49	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	219	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	818	L.F.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE 'A' AT STATION -L- 33+00	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE 'B' AT STATION -L- 63+00	1	L.S.
4102000000	904	SIGN ERECTION, TYPE E	26	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	1	EA.
4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD	2	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	9	EA.

GENERAL NOTES

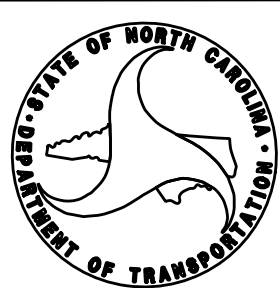
- . SIGNS FURNISHED BY STATE.
- . ALL PROPOSED SIGNS SEE PAY ITEM NOTE 1 UNLESS OTHERWISE NOTED.
- . RETAIN ALL EXISTING SIGNS WITHIN CONSTRUCTION LIMITS UNLESS OTHERWISE NOTED.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' 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' 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.

INDEX

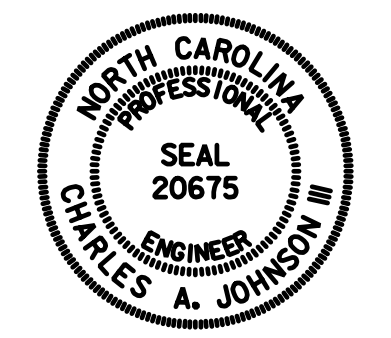
SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2 - 2B	SUPPORT INFORMATION
SIGN-3 - 3D	OVERHEAD SIGN STRUCTURES AND SIGN DESIGNS
SIGN-4	TYPE 'E' SIGNS
SIGN-5 - 7	SIGNING PLAN SHEETS

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

RENEE ROACH, PE, CPM SIGNING & DELINEATION REGIONAL ENGINEER
SAM COLEMAN, EI SIGNING & DELINEATION PROJECT DESIGN ENGINEER



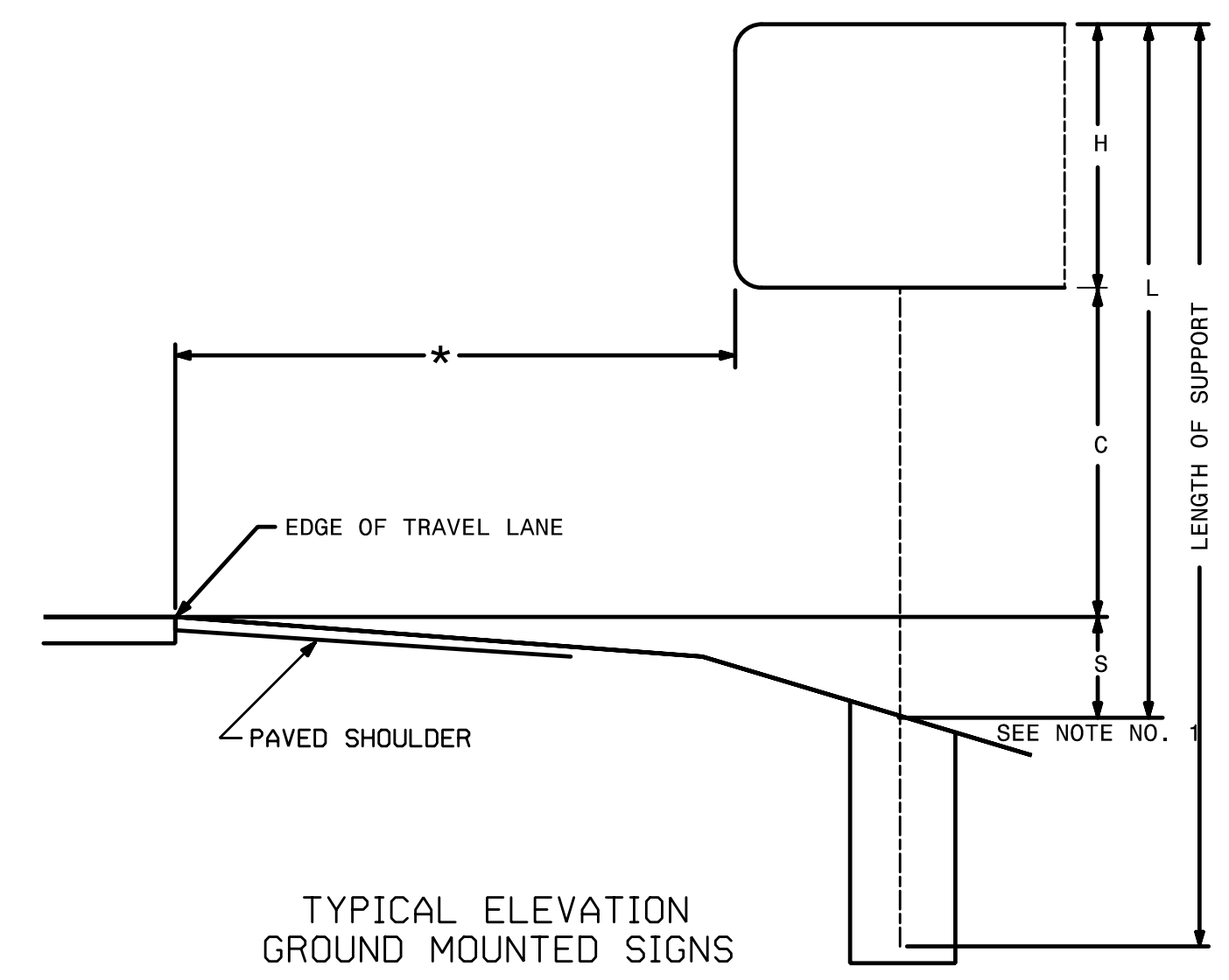
PLAN PREPARED BY :
HNTB HNTB NORTH CAROLINA, P.C.
 343 E. Six Forks Road, Suite 200
 Raleigh, North Carolina 27609
 NC License No: C-1554
 C.A. JOHNSON, III, PE SIGNING PROJECT ENGINEER
 A.D. KLINKSIEK, PE, PTOE SIGNING DESIGN ENGINEER
 T.R. TERRELL SIGNING DESIGN TECHNICIAN

TIP NO. U-2524BC	SHEET NO. SIGN-2
APPROVED: <u>Charles A. Johnson, III</u> <small>DocuSigned by: SBA1955547F54A6</small>	
DATE: 3/3/2015	
SEAL	
	

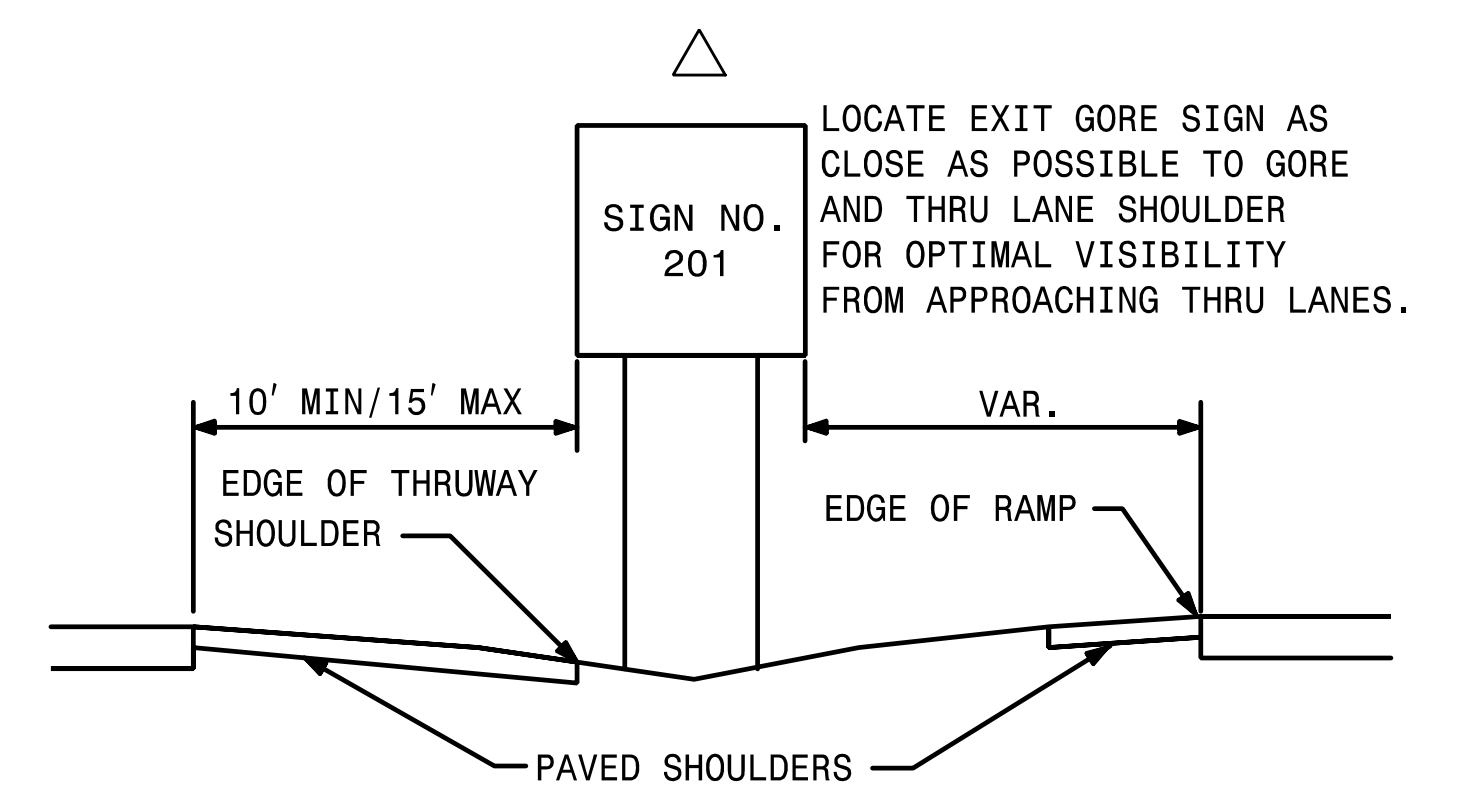
SIGN NO.	SIGN TYPE	SIGN SIZE (in.)			ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ CLR.* (ft.)	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			FOOTING DIAMETER (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE 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																	
201	A	72	X	60	-L- STA. 61+65	2	S3x5.7	BA	N/A	N/A	△	5.00	7.00	3.5	0.50	12.50	16.00	0.00	0.00	0.00	0.50	12.50	16.00	1	4	218.40	0.00	0.00	0.23											
																							TOTAL	218.40	TOTAL	0.00	TOTAL	0.00	TOTAL	0.23										
																							USE:	219	0	0	1													

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.



TYPICAL ELEVATION GROUND MOUNTED SIGNS

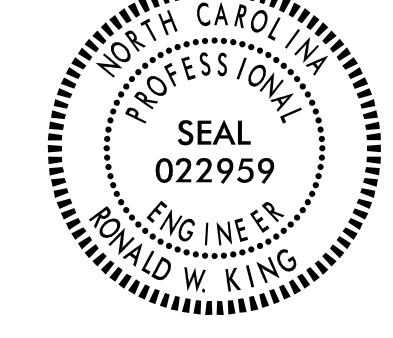


TYPE 'A' AND TYPE 'B' GROUND MOUNTED SIGNS

APPROVED: *Ronald W. King*
13E7AF788AA448

DATE: 3/3/2015

SEAL



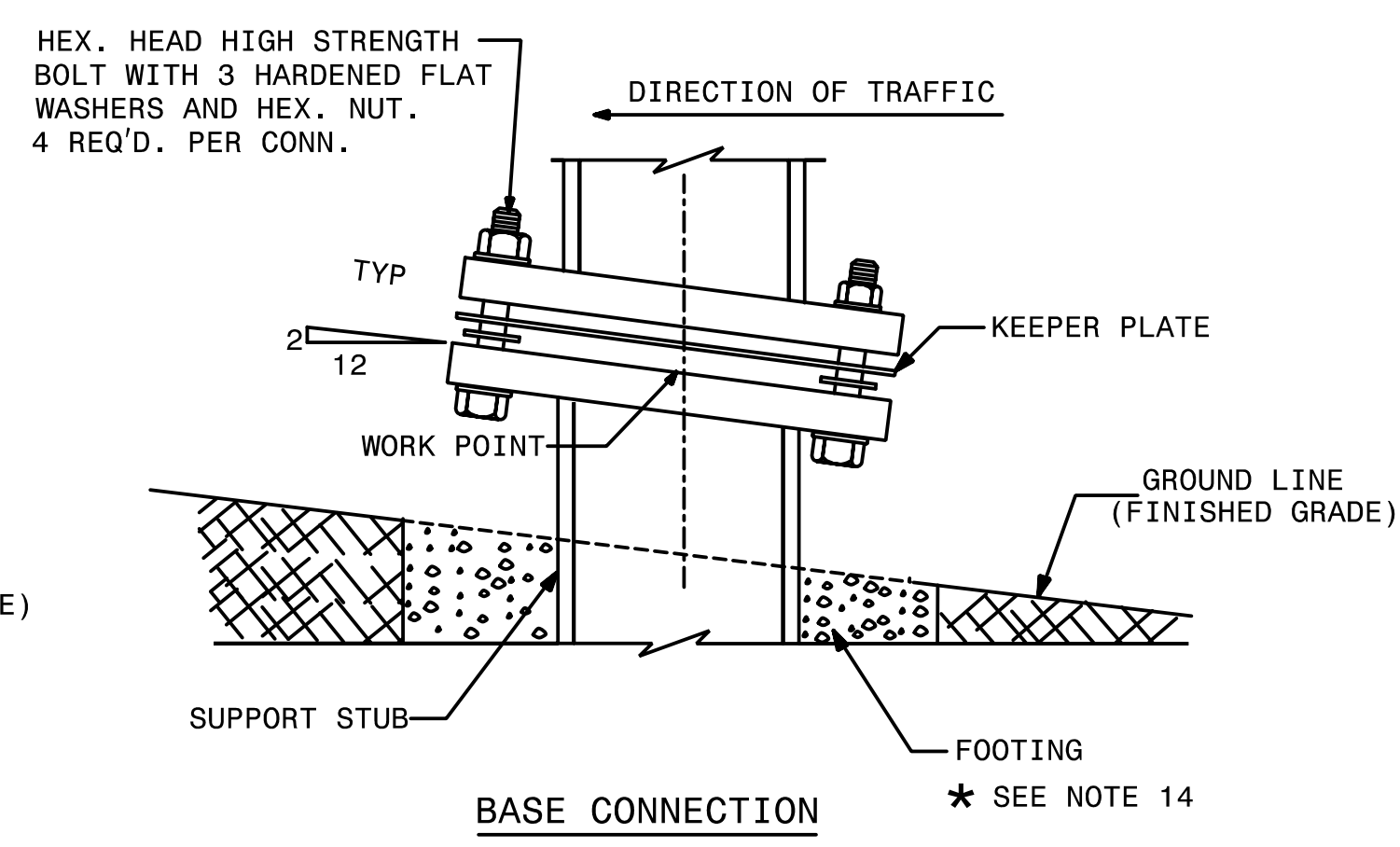
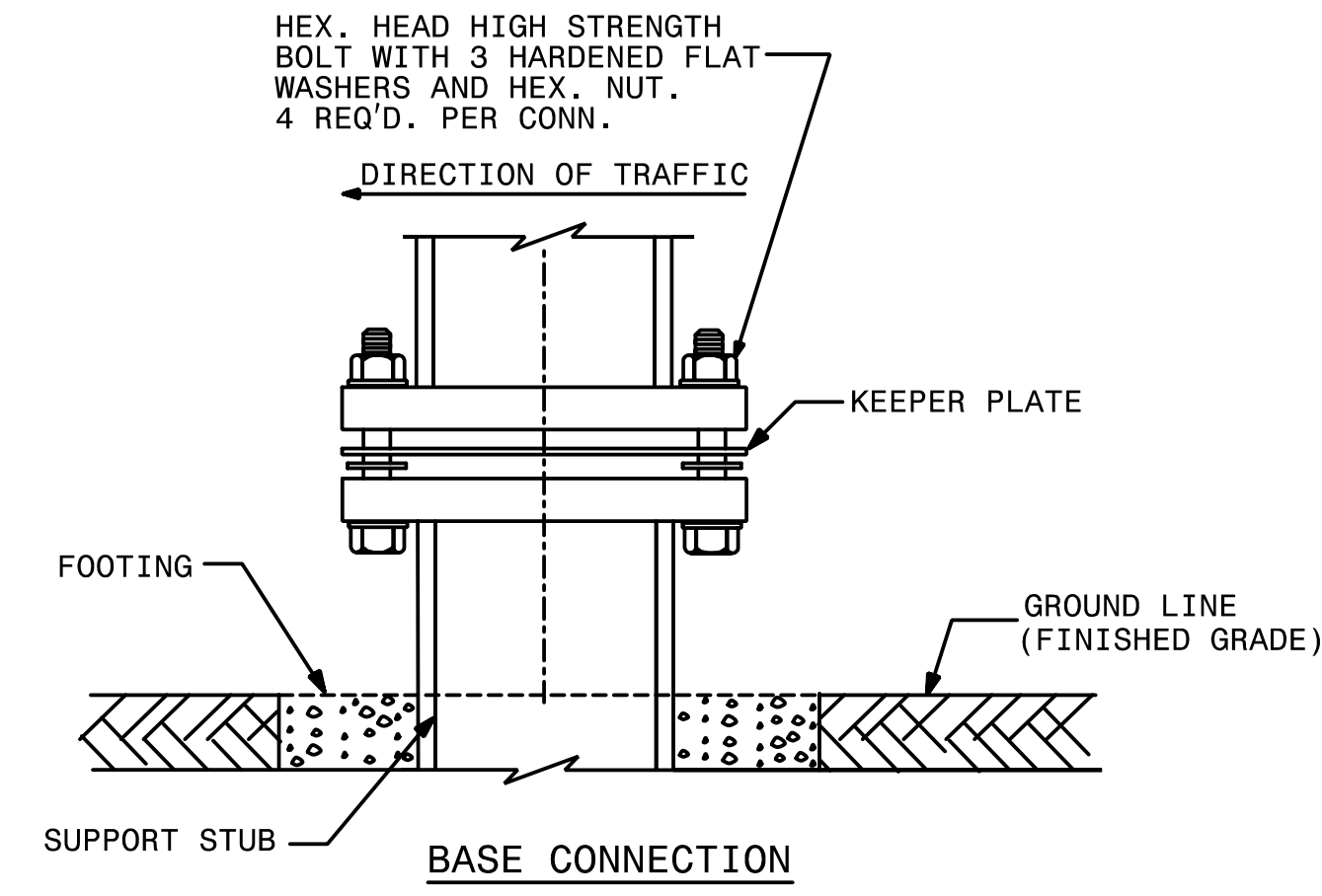
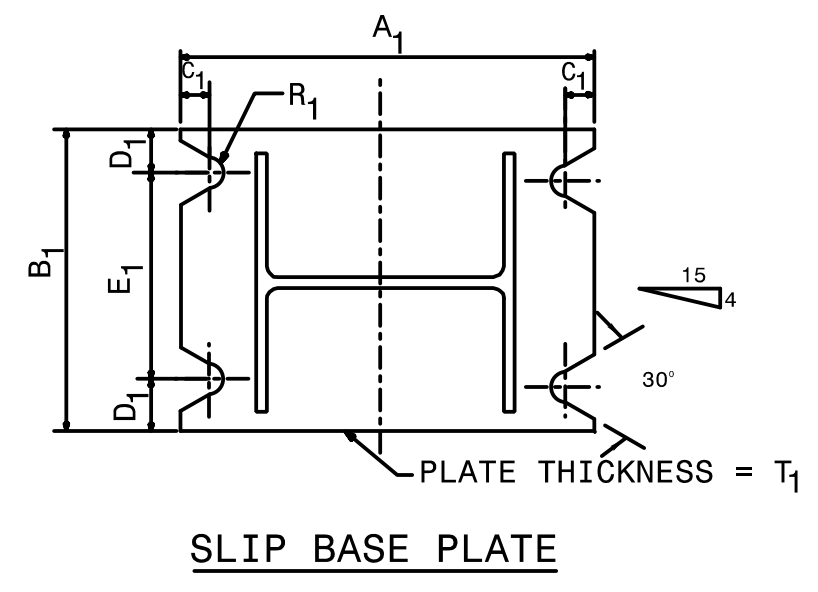
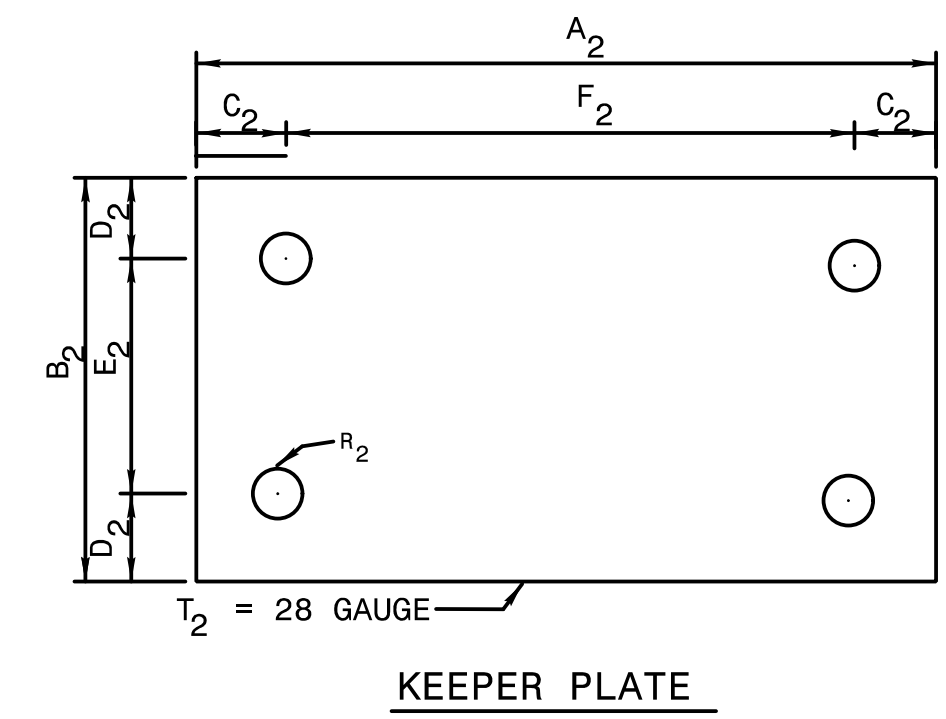
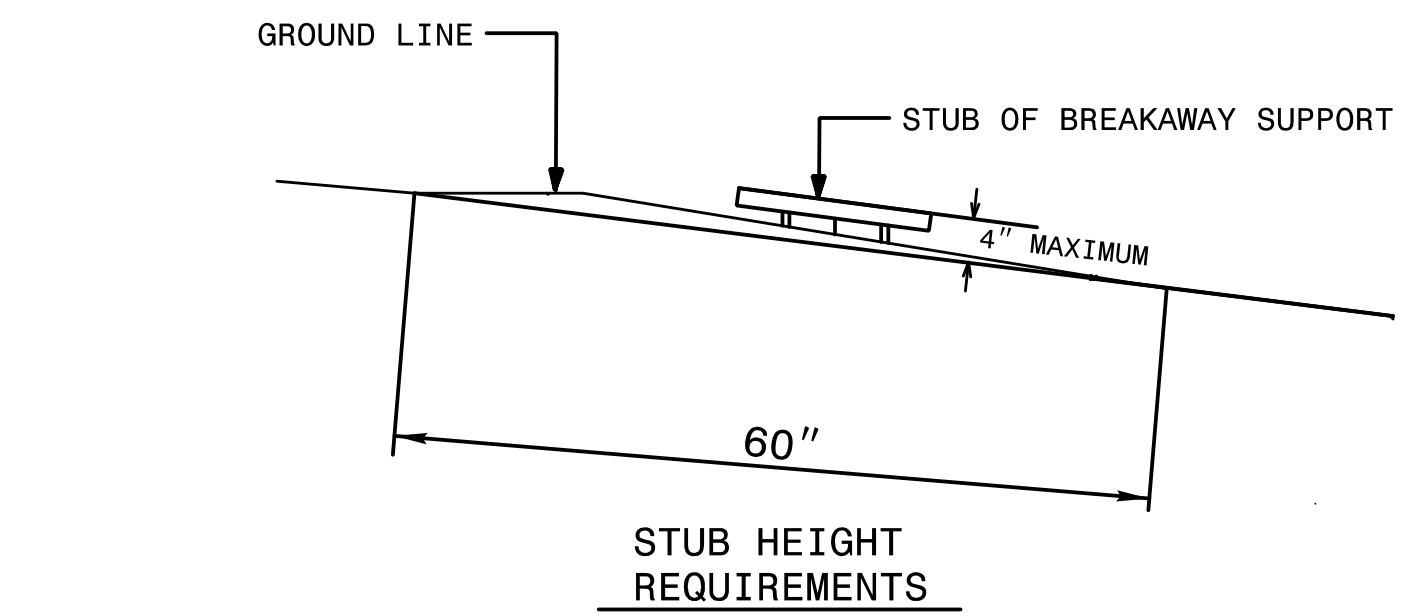
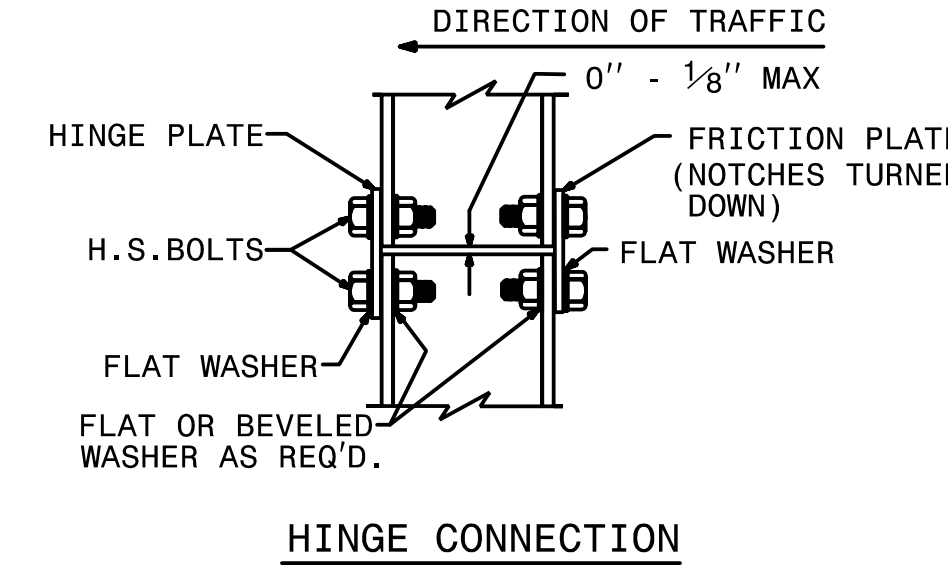
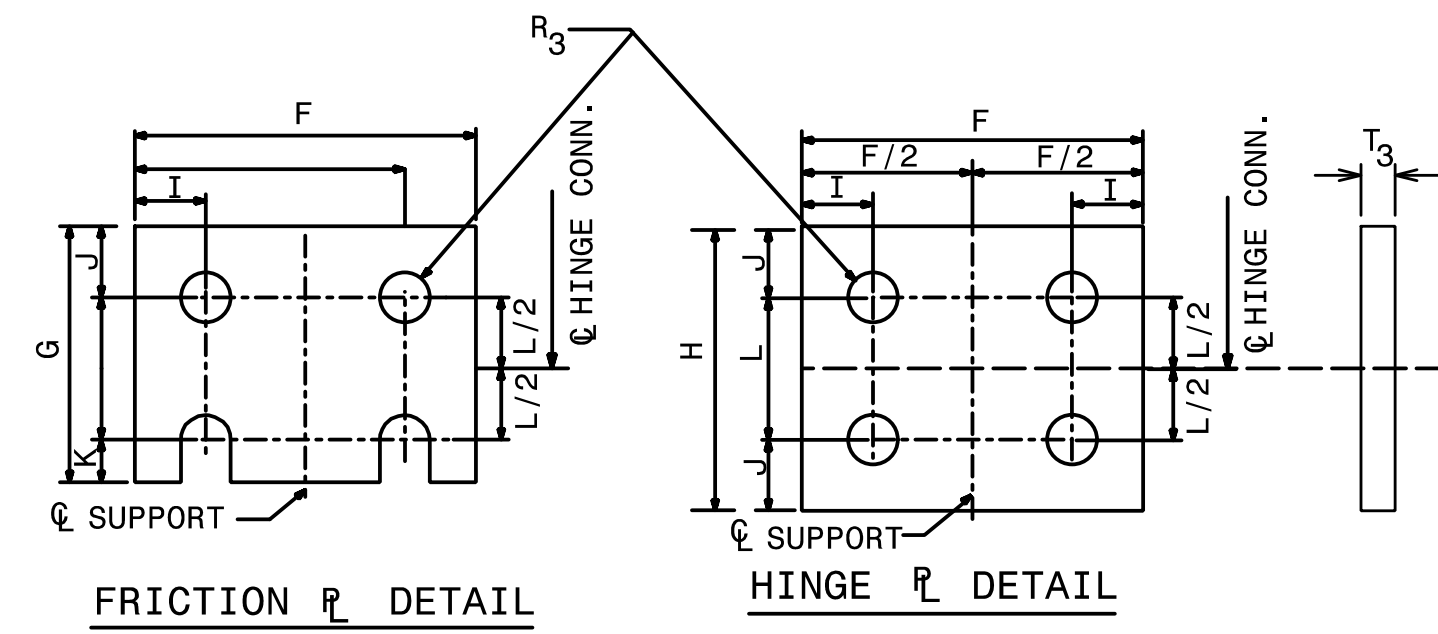
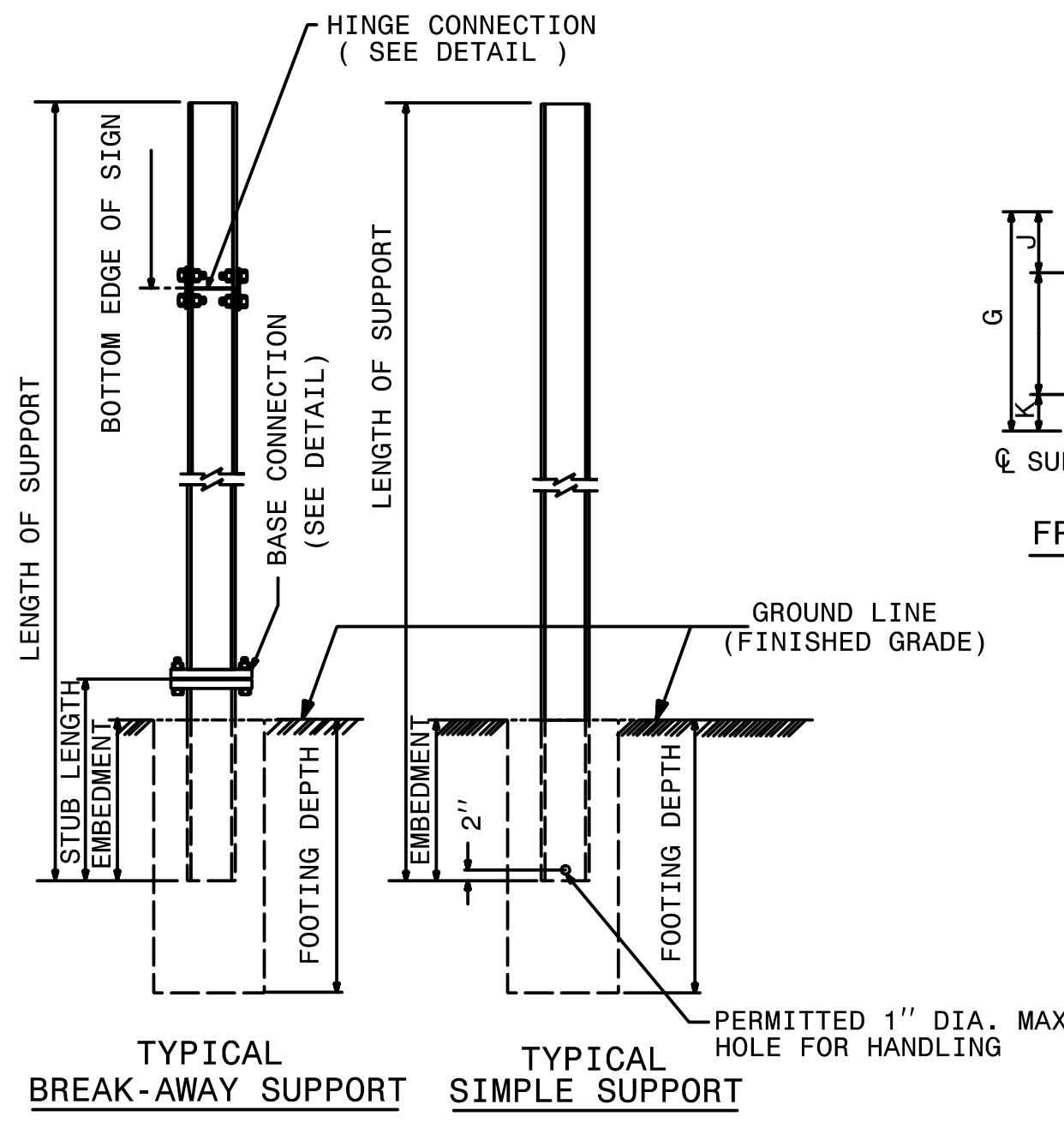
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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.

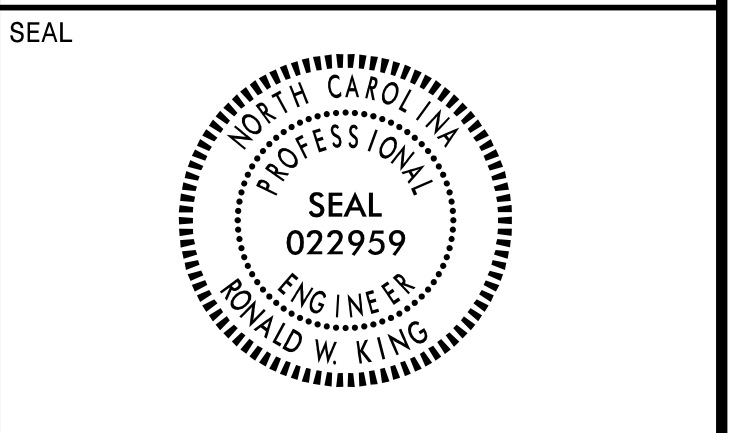
1-12

ENGLISH STANDARD DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 1 OF 3

903D10

APPROVED: *Ronald W. King*
 DATE: 3/3/2015

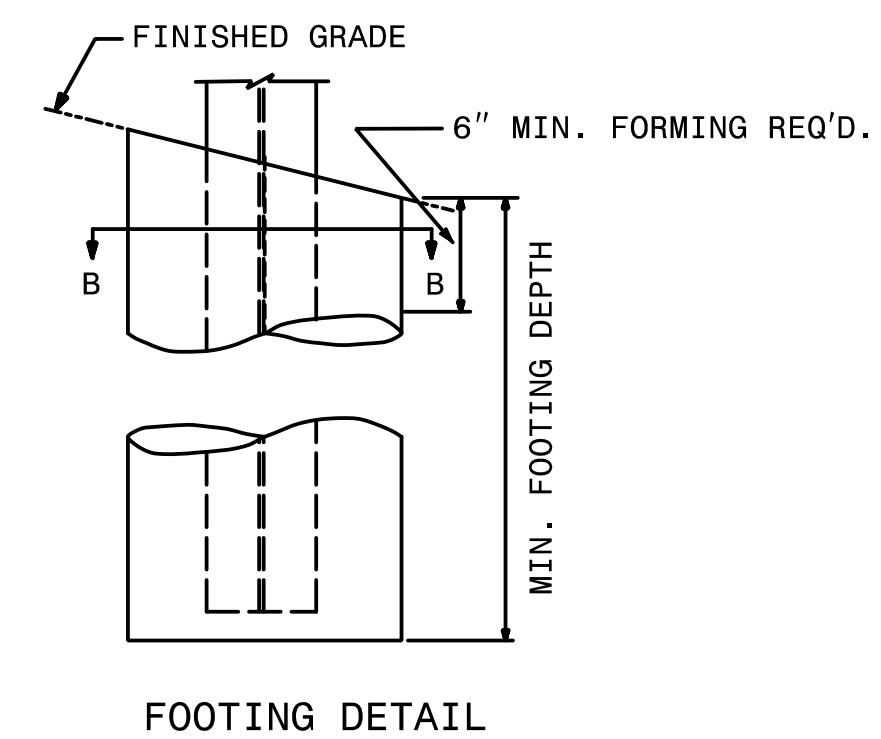
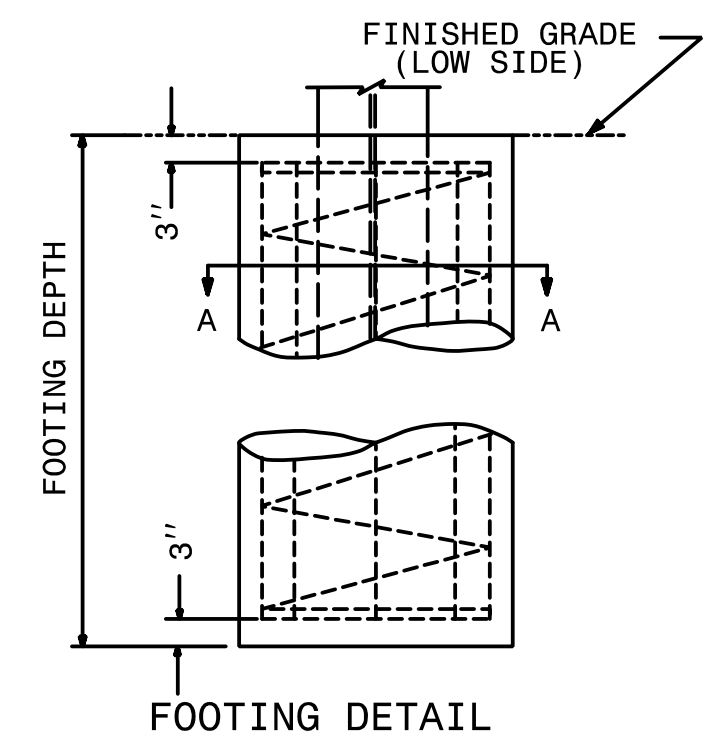
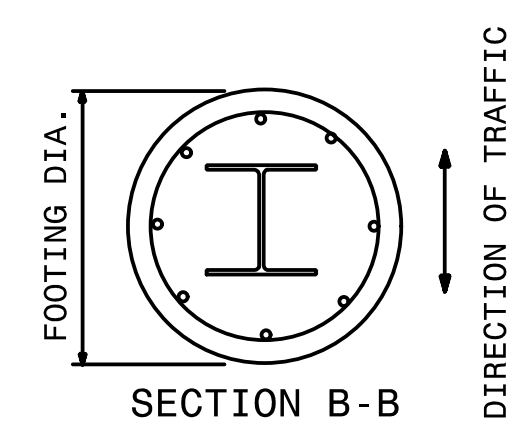
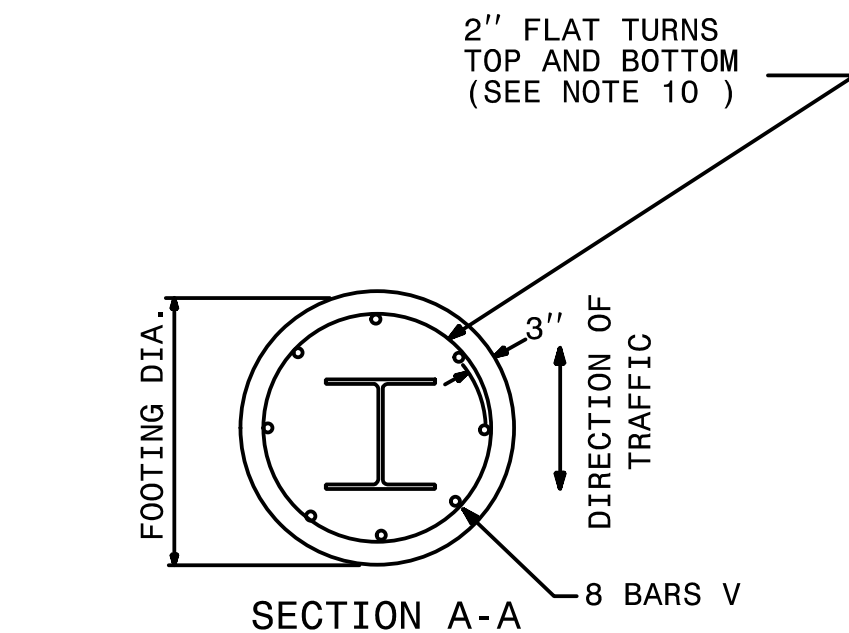


STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

BEAM SHAPE	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 3/4"	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"	1/2"	1"	1/2"	2"	9/32"	3/8"	18
S4X7.7	1/2"DIA. X 3/4"	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"	1/2"	1"	1/2"	2"	9/32"	3/8"	20
W6X9	1/2"DIA. X 3/4"	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"	1/2"	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"	1 1/32"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/32"	28 GAUGE	5/8"DIA. X 2"	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 4 1/2"	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 1/4"	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 1/2"	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 1/4"	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 1/2"	14"	7"	1 1/2"	1"	5"	1 1/2"	1 3/32"	14"	7"	1 1/2"	1"	5"	1 3/32"	28 GAUGE	3/4"DIA. X 2 1/2"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	1/2"	73
W10X22	3/4"DIA. X 4 1/2"	16"	8"	1 1/2"	1"	6"	1 1/2"	1 3/32"	16"	8"	1 1/2"	1"	6"	1 3/32"	28 GAUGE	3/4"DIA. X 2 1/2"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	1/2"	119
W10X26	3/4"DIA. X 5 1/2"	16 1/2"	8"	1 1/2"	1"	6"	1 3/4"	1 3/32"	16 1/2"	8"	1 1/2"	1"	6"	1 3/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	5/8"	140
W12X26	3/4"DIA. X 5 1/2"	18 1/2"	9"	1 1/2"	1"	7"	1 3/4"	1 3/32"	18 1/2"	9"	1 1/2"	1"	7"	1 3/32"	28 GAUGE	3/4"DIA. X 2 3/4"	6 1/2"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	5/8"	176
W14X30	1"DIA. X 6"	22"	9"	2"	1 1/2"	6"	2"	1 7/32"	22"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3"	6 3/4"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	5/8"	205
W16X31	1"DIA. X 6"	24"	9"	2"	1 1/2"	6"	2"	1 7/32"	24"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	223
W18X35	1"DIA. X 6"	25"	9"	2"	1 1/2"	6"	2"	1 7/32"	25"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	243
W18X40	1"DIA. X 6 1/2"	26"	9"	2"	1 1/2"	6"	2 1/4"	1 7/32"	26"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3 1/2"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	278
W21X44	1"DIA. X 7"	29"	9"	2"	1 1/2"	6"	2 1/2"	1 7/32"	29"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA. X 3 1/2"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	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


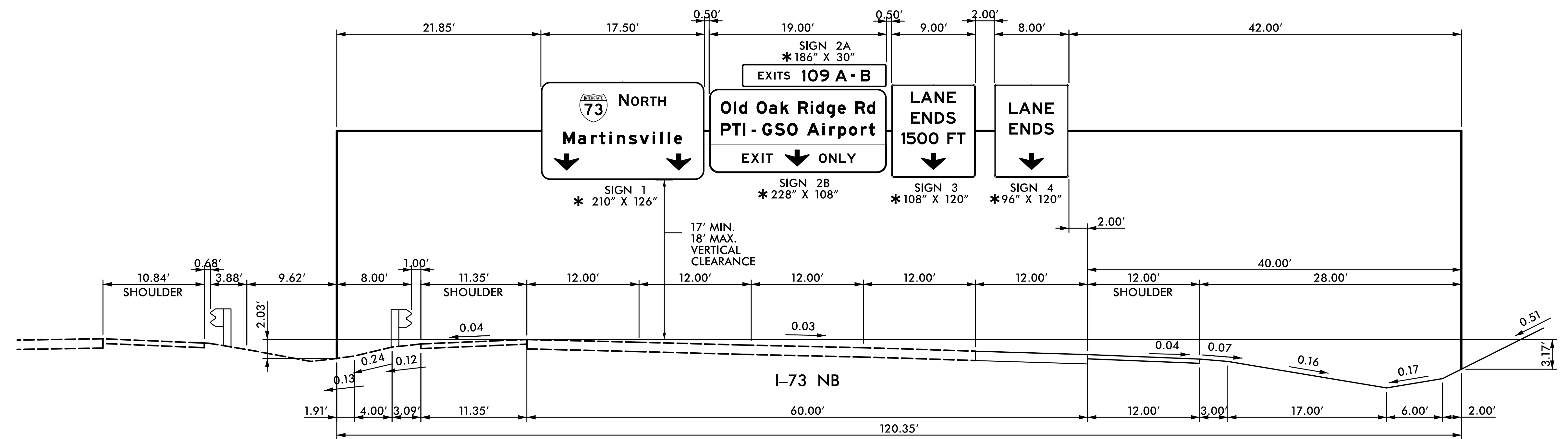
* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS

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

TIP NO. U-2524BC	SHEET NO. SIGN-3
APPROVED: <i>Charles A. Johnson, III</i> SBA1555847F5446	
DATE: 3/3/2015	
SEAL	





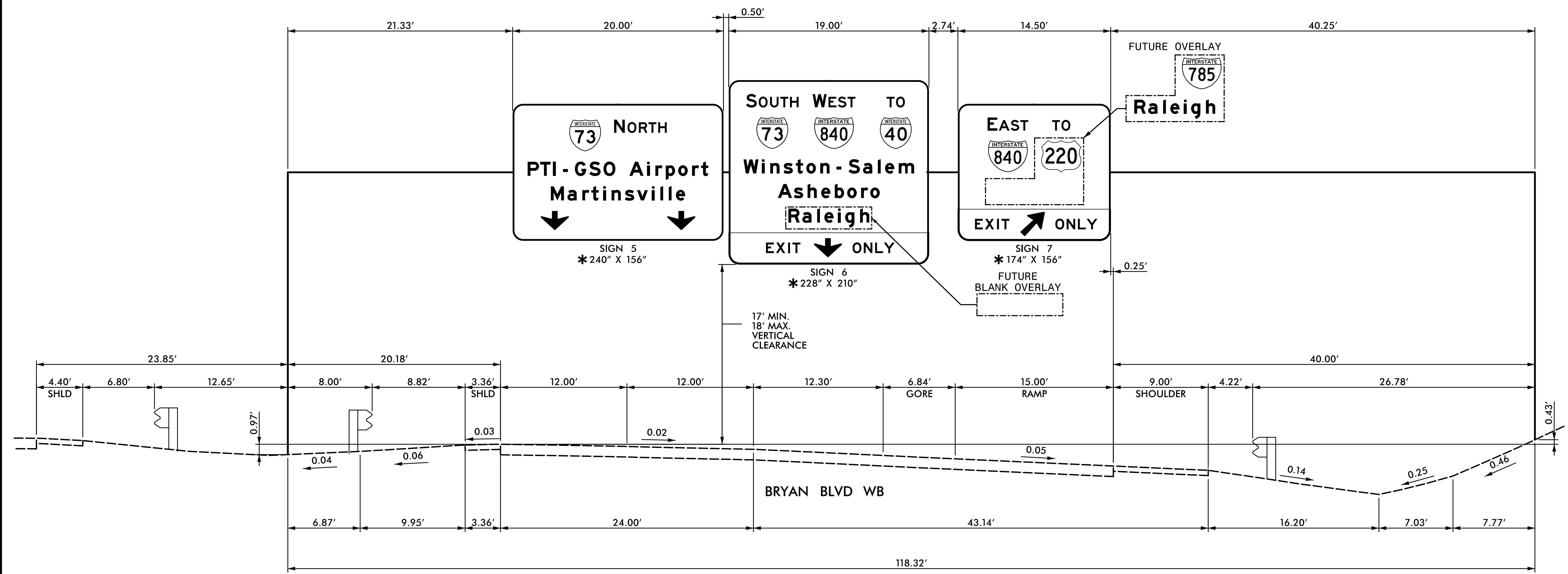
NOTES:

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 6 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

*THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.

OVERHEAD SIGN STRUCTURE 'A'
-L- STA. 33+00

TIP NO. U-2524BC	SHEET NO. SIGN-3A
APPROVED: <i>Charles A. Johnson, III</i> <small>SEA1565847F5A46</small>	
DATE: 3/3/2015	
SEAL	
	



NOTES:

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
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APPROVED: *Charles A. Johnson, III*
DocuSigned by:
 Charles A. Johnson, III
 S9A1568B47F54A6

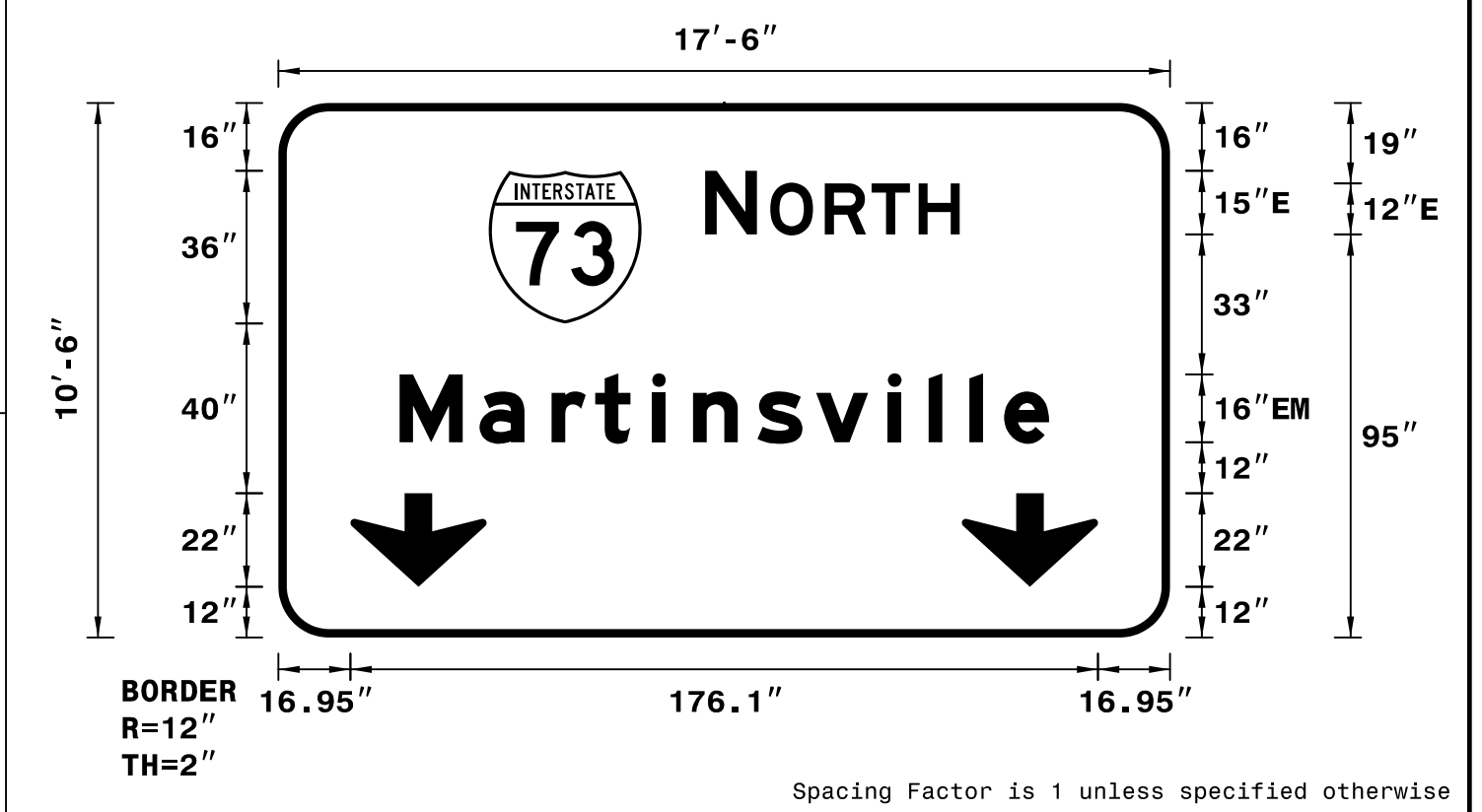
DATE: 3/3/2015



SIGN NUMBER: 1
 TYPE: A (OVHD)
 QUANTITY: 1
 SIGN WIDTH: 17'-6"
 HEIGHT: 10'-6"
 TOTAL AREA: 183.8 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 3
 LENGTH: 202.0

SYMBOL	X	Y	WID	HT
M1_1	49.5	74	36	36
Type C Arrow	17	12	32	22
Type C Arrow	161	12	32	22

DESIGN BY: TRT
 PROJECT ID: U-2524BC
 CHECKED BY: ADK/CAJ
 DIV: 07
 DATE: March 2015



- NOTES:
- Legend and border shall be direct applied Grade A reflective sheeting.
 - Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 - Background shall be Grade C reflective sheeting.

LETTER POSITIONS

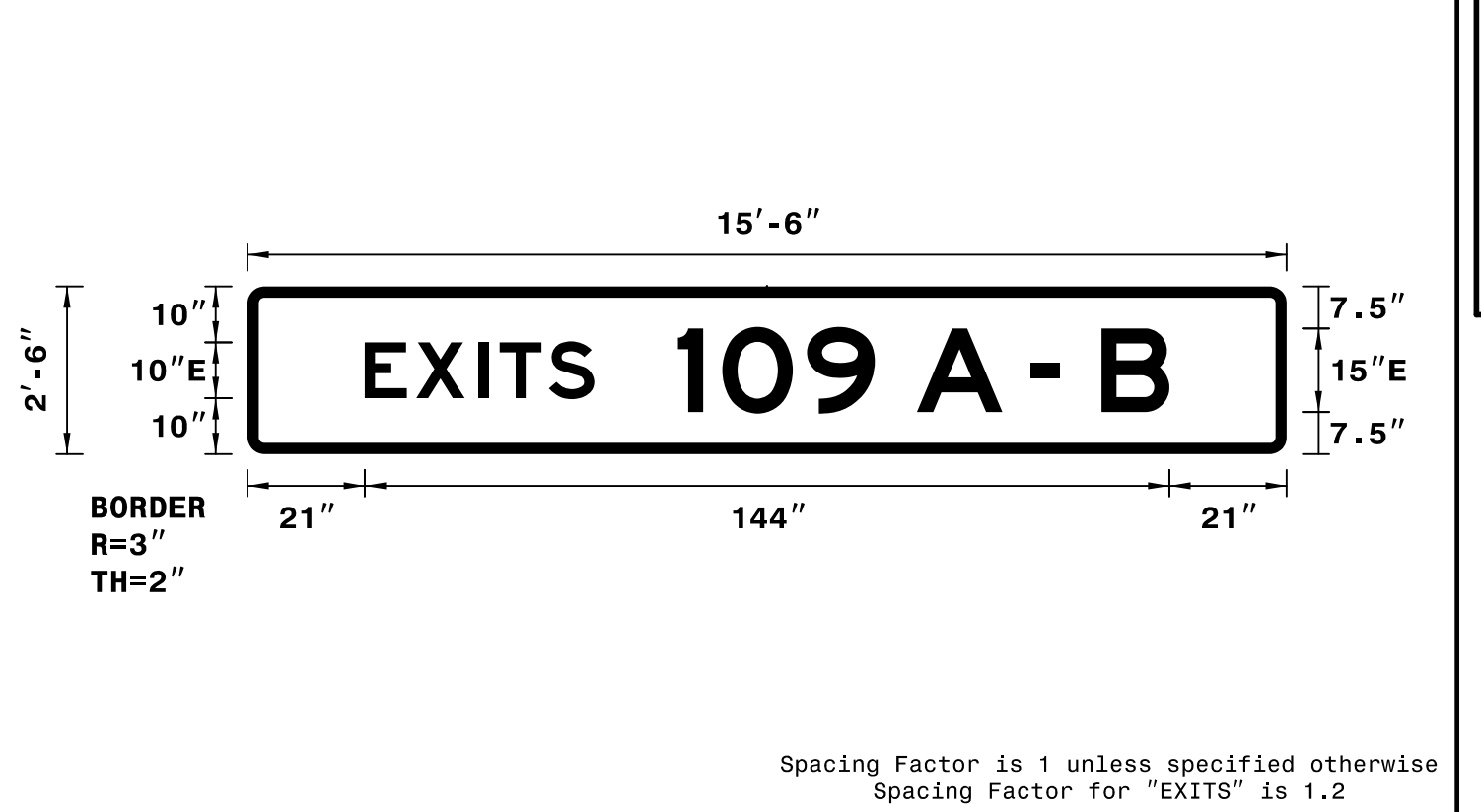
Letter spacings are to start of next letter

	N	O	R	T	H		Series/Size								
	100.5	12.2	3.1	12.8	11	11	9.7	49.5	E 2000						
									59.9						
	M	a	r	t	i	n	s	v	i	l	l	e	EM 2000		
	28.5	18.9	17	10.2	13.4	9.6	15.2	13.8	17	9.6	9.6	8.2	10.6	28.5	153

SIGN NUMBER: 2A
 TYPE: A (OVHD)
 QUANTITY: 1
 SIGN WIDTH: 15'-6"
 HEIGHT: 2'-6"
 TOTAL AREA: 38.8 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 178.0

SYMBOL	X	Y	WID	HT

DESIGN BY: TRT
 PROJECT ID: U-2524BC
 CHECKED BY: ADK/CAJ
 DIV: 07
 DATE: March 2015



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

LETTER POSITIONS

Letter spacings are to start of next letter

	E	X	I	T	S		Series/Size					
	21	9.2	11.1	3.8	8.8	8.1	124	E 2000				
								41				
	1	0	9	A	-	B		E 2000				
	77	8	15.2	12.2	7.5	15.3	5	5.3	7.5	12.2	21	88

SIGN NUMBER: 2B
 TYPE: A (OVHD)
 QUANTITY: 1
 SIGN WIDTH: 19'-0"
 HEIGHT: 9'-0"
 TOTAL AREA: 171.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 3
 LENGTH: 220.0

SYMBOL	X	Y	WID	HT
Type C Arrow	97	8	32.1	22

DESIGN BY: TRT
 PROJECT ID: U-2524BC
 CHECKED BY: ADK/CAJ
 DIV: 07
 DATE: March 2015



- NOTES:
- Legend and border shall be direct applied Grade A reflective sheeting.
 - Background shall be Grade C reflective sheeting.
 - Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is 228" x 36". (Border Type = Recessed, Recess = 0.5", Width = 1.5", Radii = 12")

LETTER POSITIONS

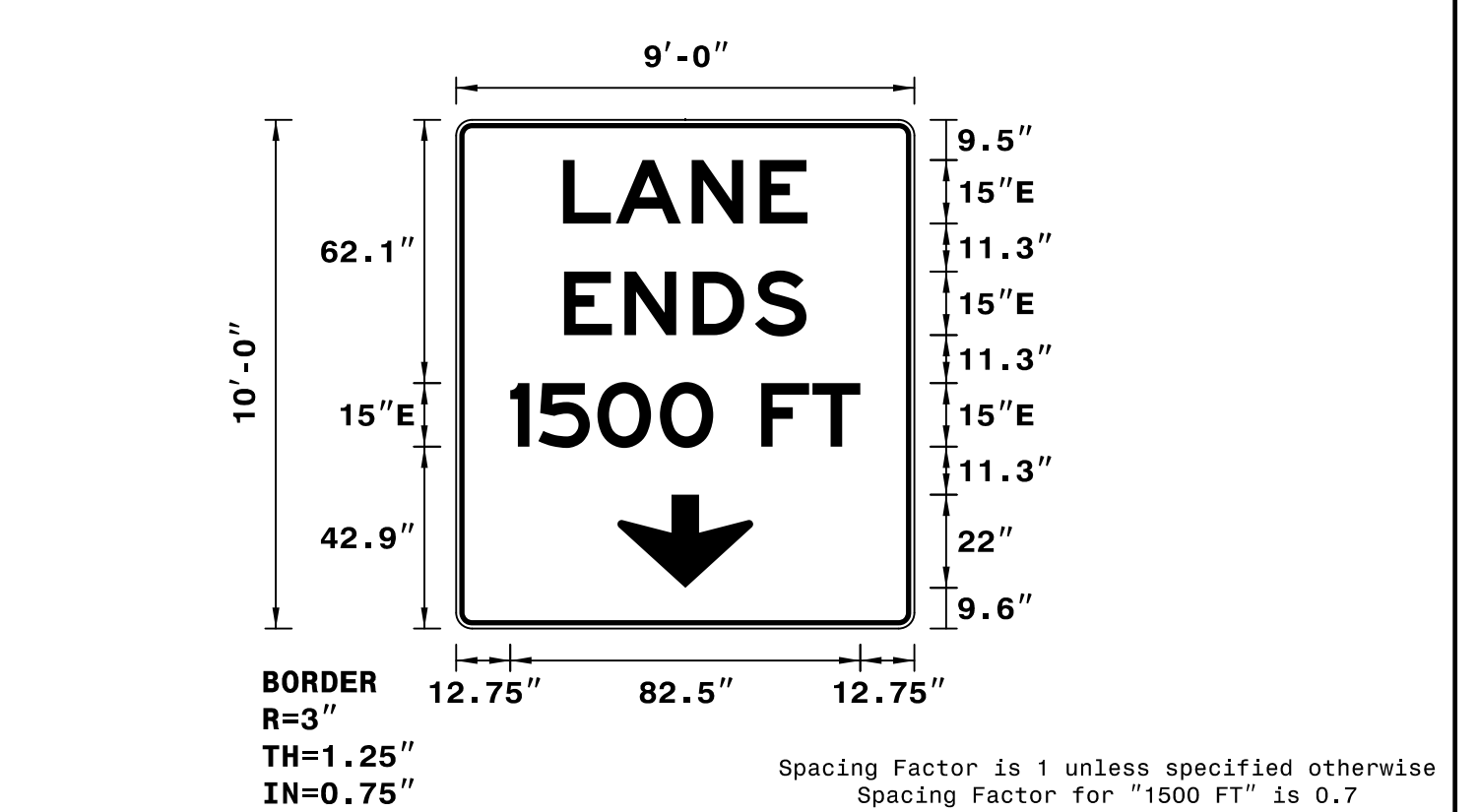
Letter spacings are to start of next letter

	O	l	d	O	a	k	R	i	d	g	e	R	d		Series/Size					
	14.9	16.8	6.7	10.6	12	15.8	15	10.6	12	16	6.7	14	14	10.6	12	15	10.6	14.9	EM 2000	
																			198.2	
	P	T	I	-	G	S	O	A	i	r	p	o	r	t					EM 2000	
	14.9	14.1	14.4	3.2	8	5.6	8	16	16	13.4	12	19.6	9	11.5	13.7	15.3	10	8.3	14.9	198.2
	E	X	I	T															E 2000	
	42.5	11.4	13.8	5	9	146.3													39.2	
	O	N	L	Y															E 2000	
	141	12.8	12.8	10	12.2	39.1													47.9	

SIGN NUMBER: 3
 TYPE: A (OVHD)
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 10'-0"
 TOTAL AREA: 90.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0.75"
 WIDTH: 1.25"
 RADII: 3"
 NO. Z BARS: 3
 LENGTH: 100.0

SYMBOL	X	Y	WID	HT
Type C Arrow	38	9.6	32	22

DESIGN BY: TRT
 PROJECT ID: U-2524BC
 CHECKED BY: ADK/CAJ
 DIV: 07
 DATE: March 2015




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

LETTER POSITIONS

Letter spacings are to start of next letter

	L	A	N	E		Series/Size				
	25.2	12.4	17.9	16	11.2	25.2	E 2000			
							57.6			
	E	N	D	S			E 2000			
	25.4	14.3	16.1	14.7	12.2	25.4	E 2000			
							57.2			
	1	5	0	0	F	T	E 2000			
	12.8	6.6	13.9	14.7	12.6	11.3	12.1	11.3	12.8	82.5

TIP NO. U-2524BC	SHEET NO. SIGN-3C
APPROVED: <i>Charles A. Johnson, III</i> SQA1565B47F5A46	
DATE: 3/3/2015	
SEAL	



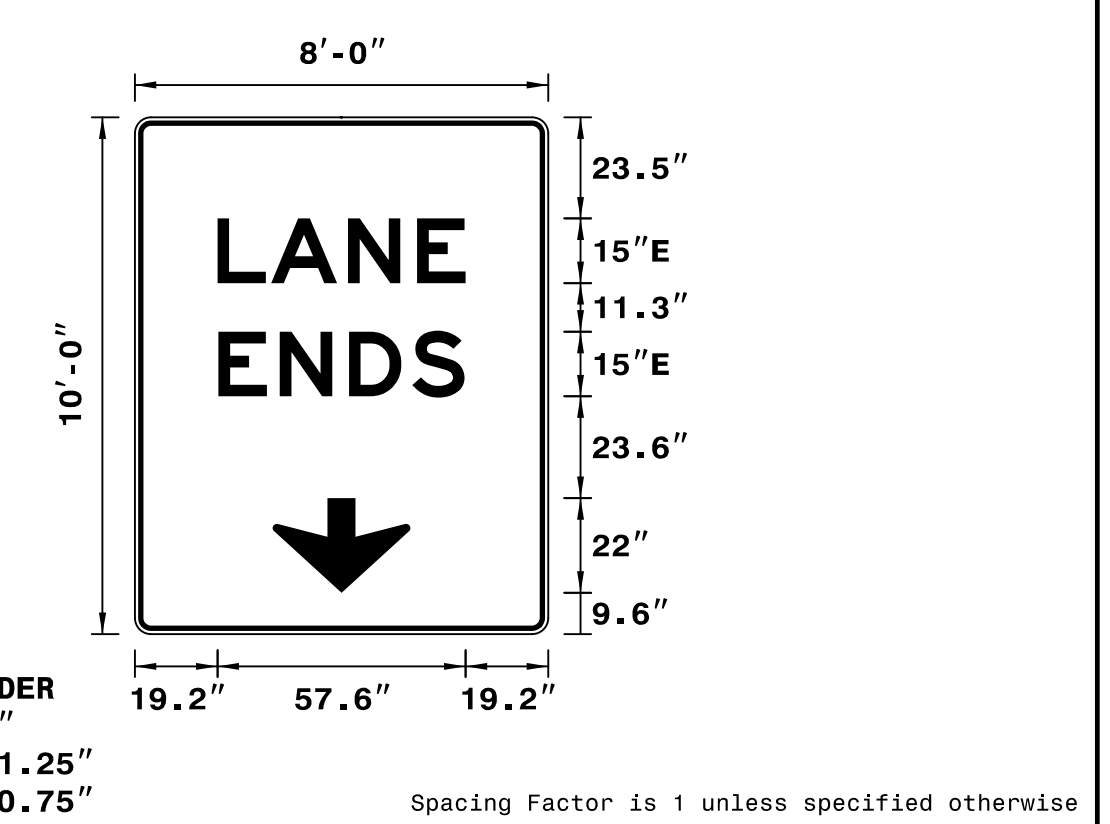
SIGN NUMBER: 4
TYPE: A (OVHD)
QUANTITY: 1
SIGN WIDTH: 8'-0"
HEIGHT: 10'-0"
TOTAL AREA: 80.0 Sq.Ft.
BORDER TYPE: RECESSED
RECESS: 0.75"
WIDTH: 1.25"
RADII: 3"
NO. Z BARS: 3
LENGTH: 88.0

BACKG COLOR: Yellow
COPY COLOR: Black

SYMBOL	X	Y	WID	HT
Type C Arrow	32	9.6	32	22

MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT
PROJECT ID: U-2524BC
CHECKED BY: ADK/CAJ
DIV: 07
DATE: March 2015



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

	L	A	N	E		Series/Size
						Text Length
	19.2	12.4	17.9	16.1	11.3	19.2
						E 2000
						57.6
						E 2000
						57.2

SIGN NUMBER: 5
TYPE: A (OVHD)
QUANTITY: 1
SIGN WIDTH: 20'-0"
HEIGHT: 13'-0"
TOTAL AREA: 260.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"
NO. Z BARS: 4
LENGTH: 232.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	64.5	102	36	36
Type C Arrow	32	12	32	22
Type C Arrow	176	12	32	22

MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT
PROJECT ID: U-2524BC
CHECKED BY: ADK/CAJ
DIV: 07
DATE: March 2015



NOTES:
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
3. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

	N	O	R	T	H		Series/Size	
							Text Length	
	115.5	12.2	3.1	12.8	11	11	9.7	64.5
								E 2000
								59.9
								E 2000
								205.8
								E 2000
								153

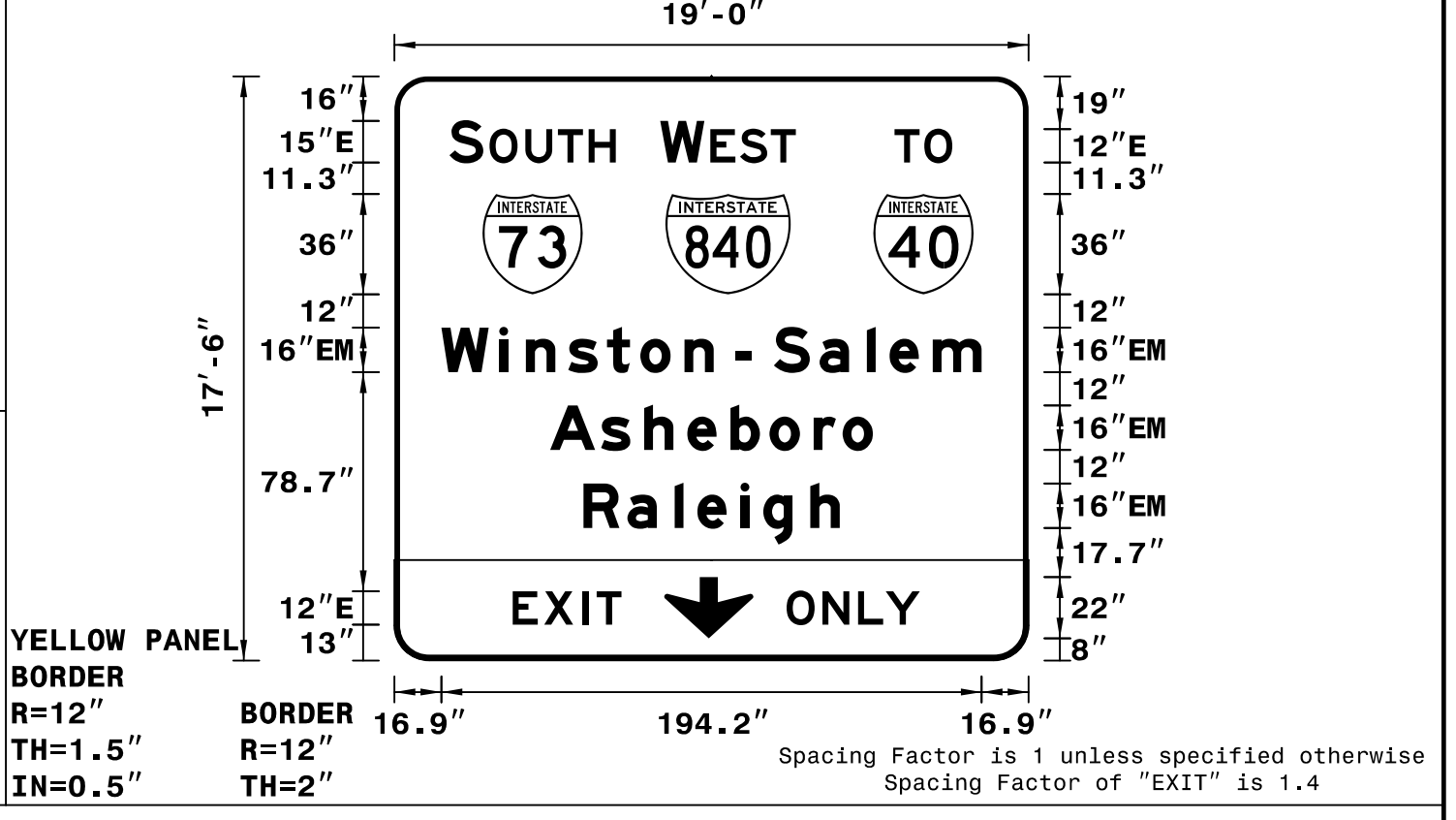
SIGN NUMBER: 6
TYPE: A (OVHD)
QUANTITY: 1
SIGN WIDTH: 19'-0"
HEIGHT: 17'-6"
TOTAL AREA: 332.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"
NO. Z BARS: 6
LENGTH: 220.0

BACKG COLOR: Green/Yellow
COPY COLOR: White/Black

SYMBOL	X	Y	WID	HT
M1_1	31.7	131.7	36	36
M1_1	97.4	131.7	45	36
M1_1	172.2	131.7	36	36
Type C Arrow	97	8	32	22

MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT
PROJECT ID: U-2524BC
CHECKED BY: ADK/CAJ
DIV: 07
DATE: March 2015



NOTES:
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
3. Background shall be Grade C reflective sheeting.
4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is 228" x 36". (Border Type = Recessed, Recess = 0.5", Width = 1.5", Radii = 12")

LETTER POSITIONS

Letter spacings are to start of next letter

	S	O	U	T	H		Series/Size	
							Text Length	
	19.8	12.2	2.2	12.8	11.8	11	9.7	148.5
								E 2000
								59.8
								E 2000
								48.8
								E 2000
								20.8
								E 2000
								39.2
								E 2000
								47.9

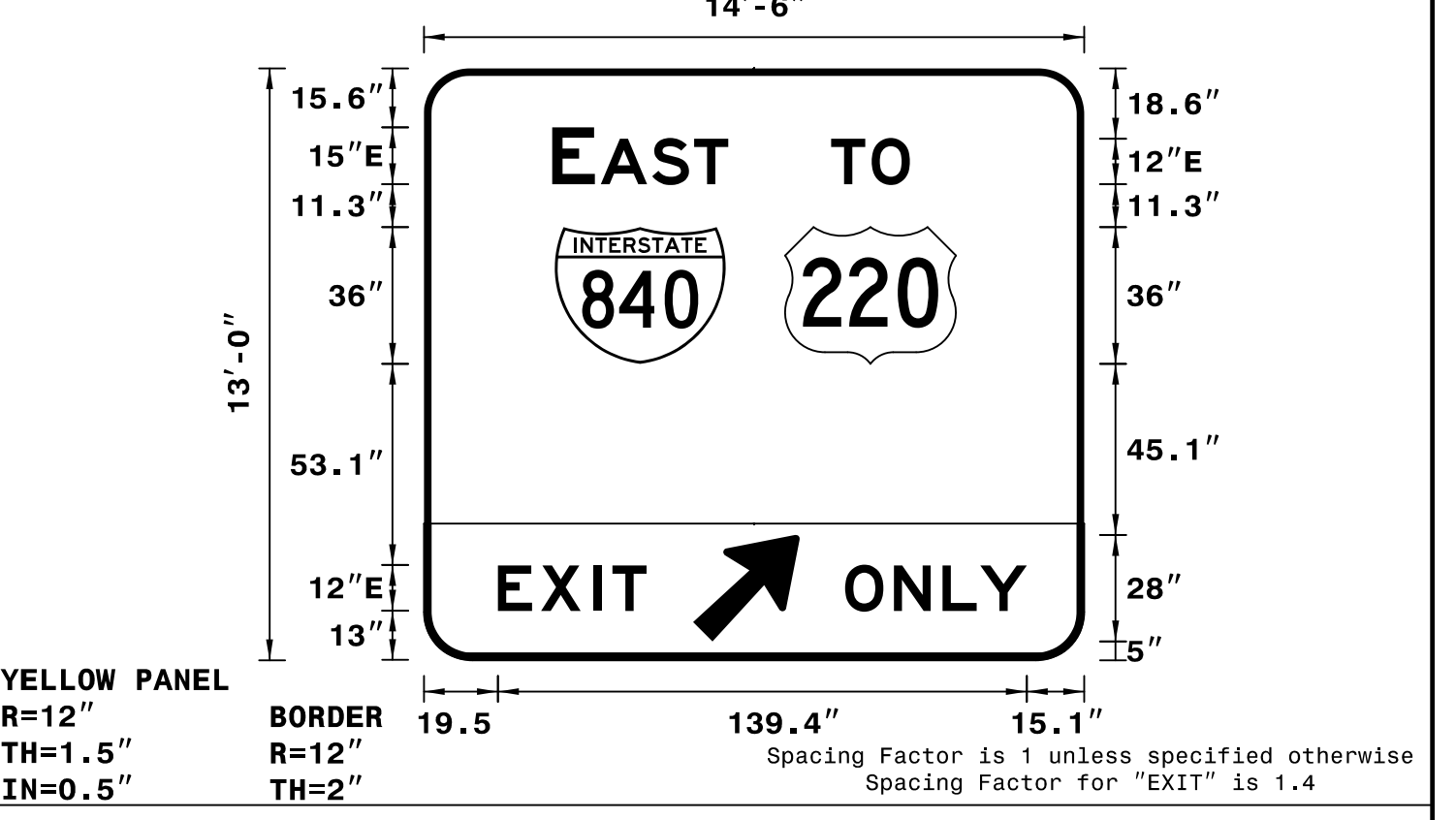
SIGN NUMBER: 7
TYPE: A (OVHD)
QUANTITY: 1
SIGN WIDTH: 14'-6"
HEIGHT: 13'-0"
TOTAL AREA: 188.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"
NO. Z BARS: 4
LENGTH: 166.0

BACKG COLOR: Green/Yellow
COPY COLOR: White/Black

SYMBOL	X	Y	WID	HT
M1_1	34.5	78.1	45	36
M1_4	95.2	78.1	45	36
Type A Arrow	71	5	22.6	35.6

MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT
PROJECT ID: U-2524BC
CHECKED BY: ADK/CAJ
DIV: 07
DATE: March 2015

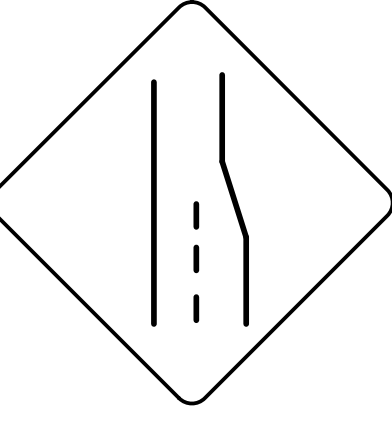





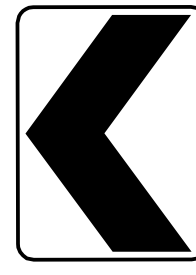
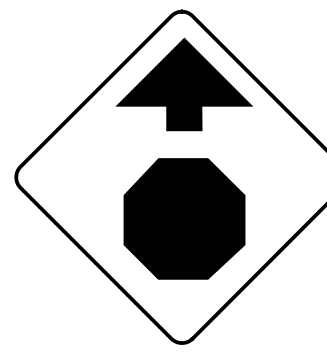
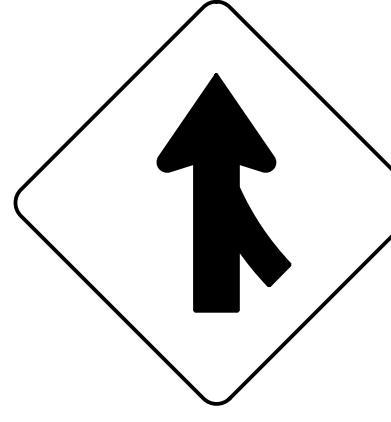
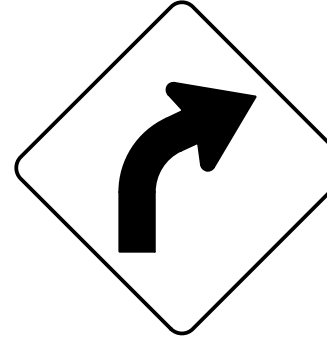



NOTES:
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
3. Background shall be Grade C reflective sheeting.
4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is 174" x 36". (Border Type = Recessed, Recess = 0.5", Width = 1.5", Radii = 12")


LETTER POSITIONS

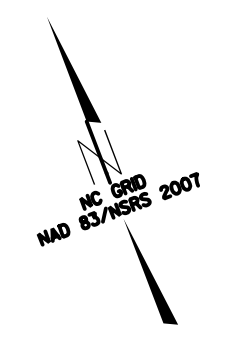
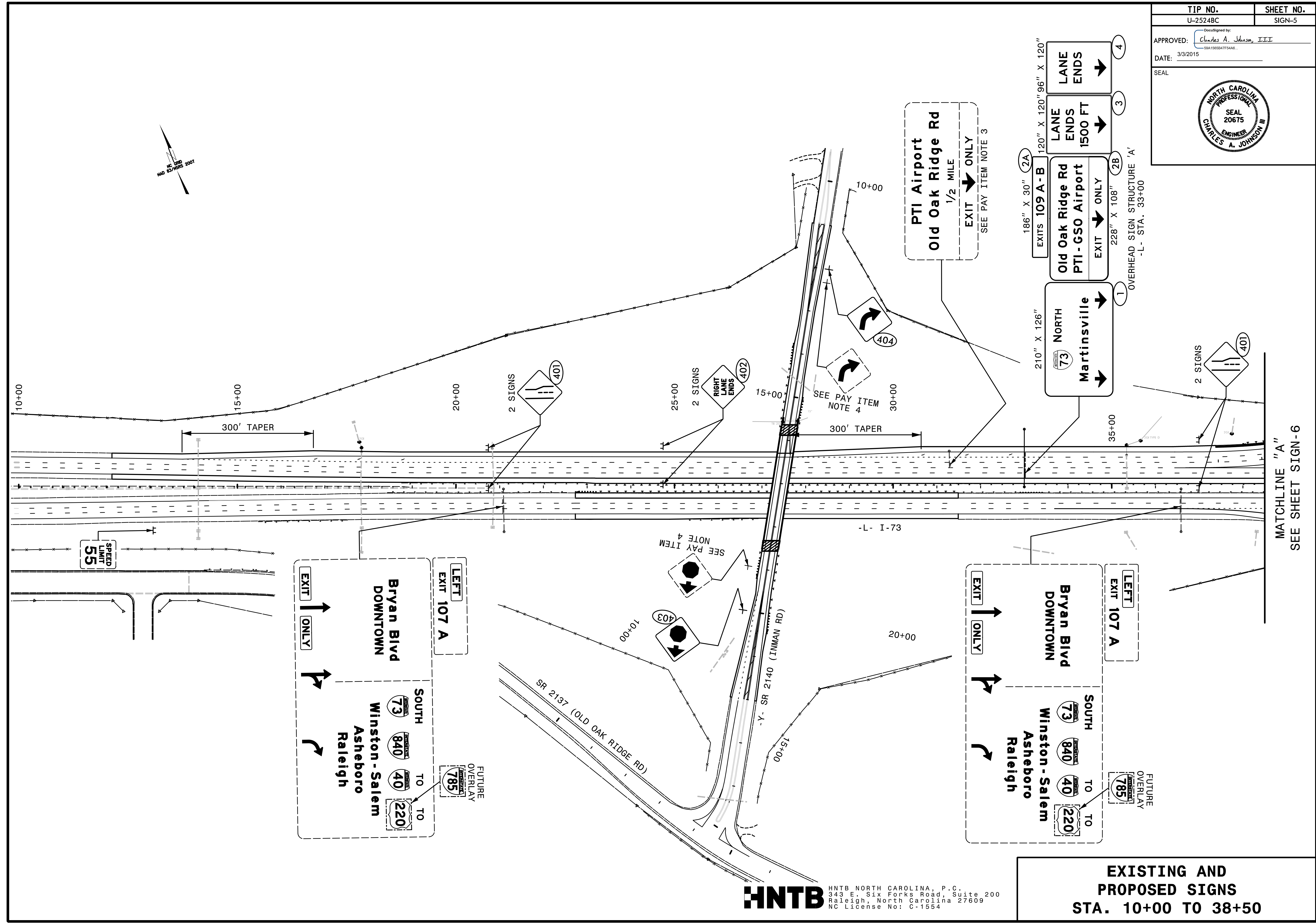
Letter spacings are to start of next letter

	E	A	S	T		Series/Size	
						Text Length	
	33.8	11.3	1.5	13.6	11	9	93.8
							E 2000
							46.4
							E 2000
							20.8
							E 2000
							39.2
							E 2000
							47.9

<p>(401) QUANTITY REQ'D 4</p>  <p>48" X 48" W4-2(R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>(406) QUANTITY REQ'D 2</p>  <p>24" X 24" W13-1P</p> <p>MOUNTED UNDER 405 IN 2 INSTALLATIONS</p>					<table border="1"> <tr> <td>TIP NO. U-2524BC</td> <td>SHEET NO. SIGN-4</td> </tr> <tr> <td colspan="2">APPROVED: <u>Charles A. Johnson, III</u></td> </tr> <tr> <td colspan="2">DATE: 3/3/2015</td> </tr> <tr> <td colspan="2">SEAL</td> </tr> <tr> <td colspan="2">  </td> </tr> </table>	TIP NO. U-2524BC	SHEET NO. SIGN-4	APPROVED: <u>Charles A. Johnson, III</u>		DATE: 3/3/2015		SEAL			
TIP NO. U-2524BC	SHEET NO. SIGN-4															
APPROVED: <u>Charles A. Johnson, III</u>																
DATE: 3/3/2015																
SEAL																
																
<p>(402) QUANTITY REQ'D 4</p>  <p>48" X 48" W9-1(R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>(407) QUANTITY REQ'D 10</p>  <p>36" X 48" W1-8 (L)</p> <p>INSTALL ON TWO "U" POSTS PER SIGN SPACED APPROX 24 INCHES APART ON SUPPORT CENTERS</p> <p>INSTALL 34 INCH HORIZONTAL CROSS BRACING LEAVING A 1 INCH MARGIN FROM LEFT AND RIGHT EDGES OF SIGN</p> <p>INSTALLATION HEIGHT: BOTTOM OF SIGN SHALL BE 4 FEET ABOVE THE EDGE OF TRAVEL LANE ELEVATION (RIGHT EDGELINE OF RAMP)</p> <p>ALL OTHER PORTIONS OF ROADWAY STANDARD DRAWING 904.50 APPLY</p>															
<p>(403) QUANTITY REQ'D 1</p>  <p>30" X 30" W3-1</p> <p>ONE "U" POST PER SIGN</p>	<p>(408) QUANTITY REQ'D 2</p>  <p>48" X 48" W4-1(R)</p> <p>TWO "U" POSTS PER SIGN</p>															
<p>(404) QUANTITY REQ'D 1</p>  <p>30" X 30" W1-2(R)</p> <p>ONE "U" POST PER SIGN</p>																
<p>(405) QUANTITY REQ'D 2</p>  <p>48" X 48" W1-2(L)</p> <p>TWO "U" POSTS PER SIGN</p>																

TIP NO. U-2524BC	SHEET NO. SIGN-5
APPROVED: <i>Charles A. Johnson, III</i> <small>SEA1565847F54A6</small>	
DATE: 3/3/2015	
SEAL	




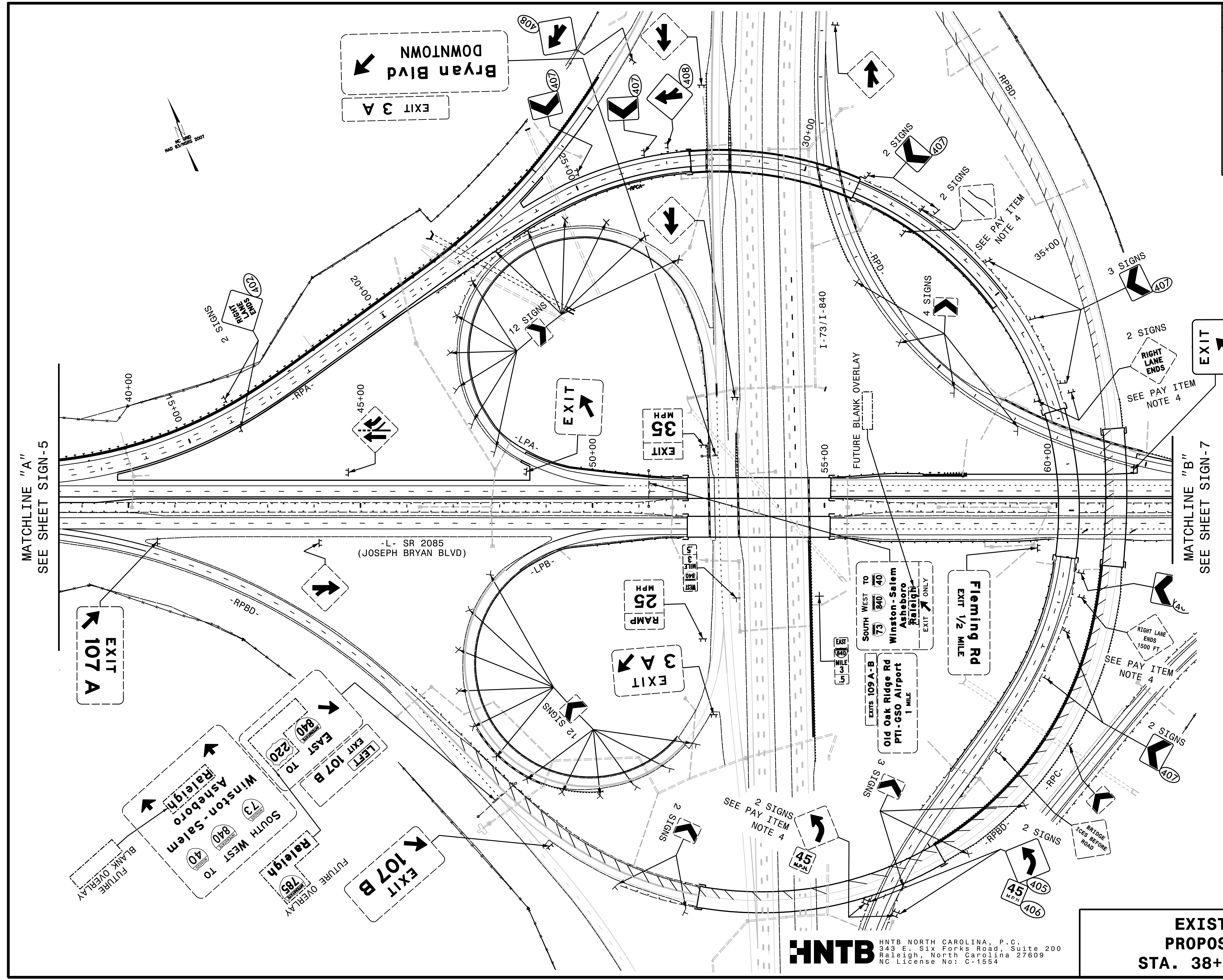


MATCHLINE "A"
SEE SHEET SIGN-6

**EXISTING AND
PROPOSED SIGNS
STA. 10+00 TO 38+00**

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

TIP NO. U-2524BC	SHEET NO. SIGN-6
APPROVED: <u>Charles A. Johnson, III</u> <small>DocuSigned by: 59A156547F5446</small>	
DATE: 3/3/2015	
SEAL	
	



MATCHLINE "A"
SEE SHEET SIGN-5

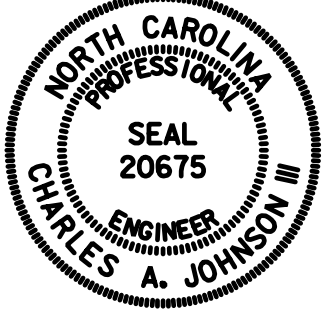
MATCHLINE "B"
SEE SHEET SIGN-7

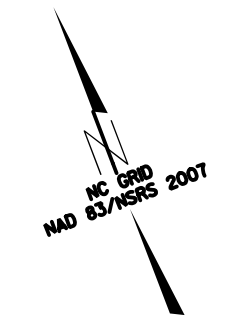
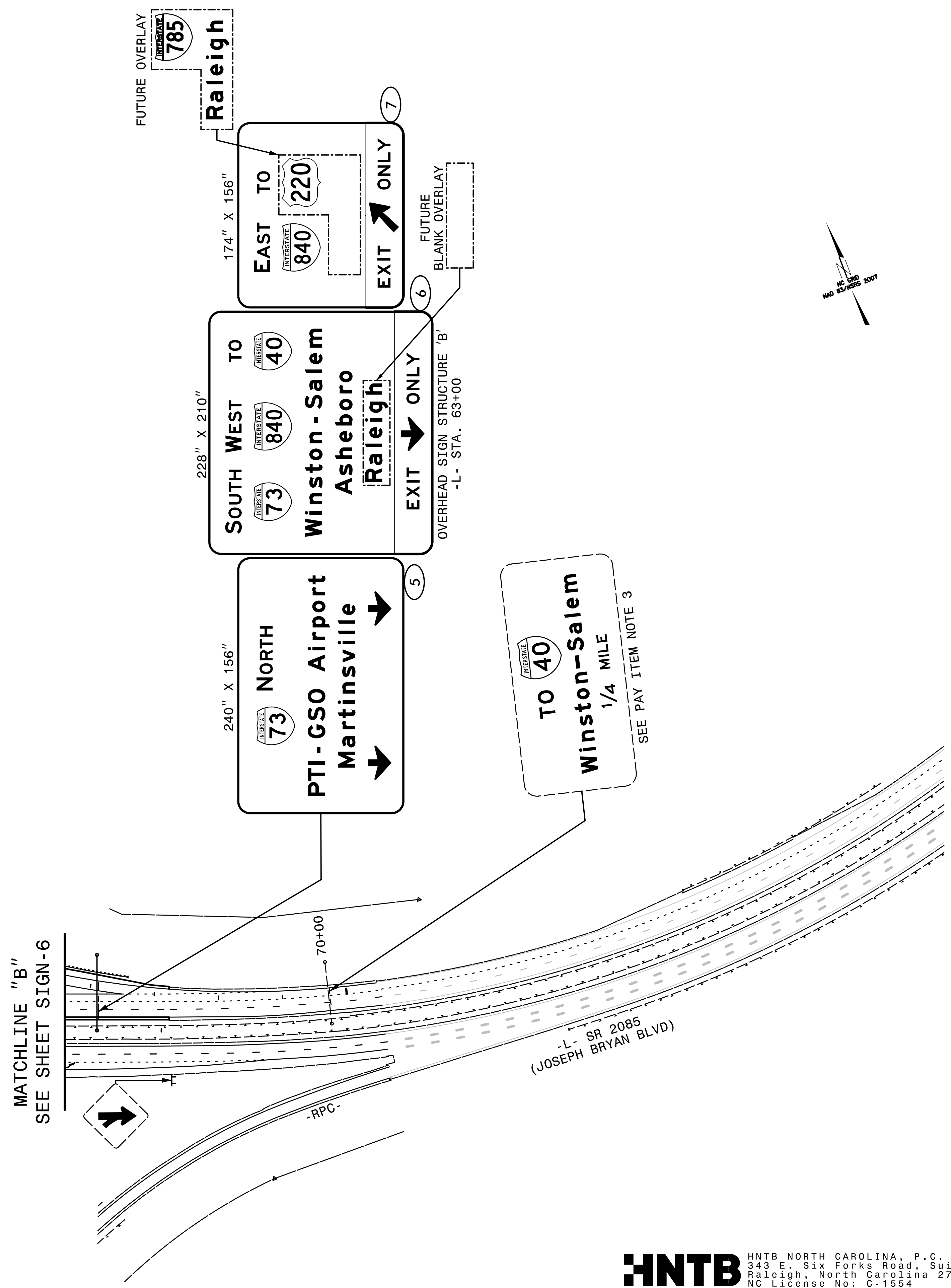
HNTB HNTB NORTH CAROLINA, P.C.
343 E. Six Forks Road, Suite 200
Raleigh, North Carolina 27609
NC License No: C-1554

EXISTING AND PROPOSED SIGNS
STA. 38+50 TO 62+50



TIP NO. U-2524BC	SHEET NO. SIGN-7
APPROVED: <u>Charles A. Johnson, III</u> <small>DocuSigned by: SBA1565B47F5A66</small>	
DATE: 3/3/2015	
SEAL	





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Raleigh, North Carolina 27609
NC License No: C-1554

**EXISTING AND
PROPOSED SIGNS
STA. 62+50 TO 70+00**