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T.I.P.: U-2524D

CONTRACT: C203792

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
GUILFORD COUNTY**

**LOCATION: GREENSBORO-WESTERN LOOP FROM NORTH OF US 220  
(BATTLEGROUND AVENUE) TO NORTH OF SR 2303 (LAWDALE DRIVE)**

<small>TIP NO.</small> U-2524D	<small>SHEET NO.</small> SIGN-1
<small>APPROVED:</small> <u>Charles A. Johnson, III</u> <small>5/4/2016</small>	
<small>DATE:</small> 5/4/2016	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

**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:

<u>STD. NO.</u>	<u>TITLE</u>
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)
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.40	MILEPOST AND PLACEMENT (REPLACED WITH SIGN-2C IN PLANS)
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

**PAY ITEM NOTES**

- 1 SIGN ERECTION, TYPE D,E, OR F
- 2 SIGN ERECTION, TYPE A (OVERHEAD)
- 3 SIGN ERECTION, TYPE B (OVERHEAD)
- 4 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 5 SIGN ERECTION, TYPE B (GROUND MOUNTED)
- 6 SIGN ERECTION, MILEMARKERS
- 7 SIGN ERECTION, REPOSITION OVERHEAD
- 8 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 9 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 10 SUPPORTS BARRIER (LARGE)  
(SEE BRIDGE MOUNTED SIGN DETAIL)

**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.
4057000000	SP	OVERHEAD FOOTING	164	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	2925	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	1334	L.F.
4080000000	903	SUPPORTS, BARRIER (LARGE)	2	EA.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION -L- STA. 425+50 LT	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION -L- STA. 457+50	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION -L- STA. 453+00 LT	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION -L- STA. 484+00	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION -SPCY8- STA. 01+50	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION -L- STA. 492+00	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION -Y8- STA. 22+25	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION -Y8- STA. 15+00	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION -RPAY8- STA. 10+00	1	L.S.
4096000000	904	SIGN ERECTION, TYPE D	1	EA.
4102000000	904	SIGN ERECTION, TYPE E	61	EA.
4108000000	904	SIGN ERECTION, TYPE F	4	EA.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)	7	EA.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)	1	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	4	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	1	EA.
4114000000	904	SIGN ERECTION, MILEMARKERS	6	EA.
4116200000	904	SIGN ERECTION, REPOSITION OVERHEAD	3	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	40	EA.
4234000000	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	3	EA.

**GENERAL NOTES**

- . SIGNS FURNISHED BY STATE.
- . ALL PROPOSED SIGNS SEE PAY ITEM NOTE 1 UNLESS OTHERWISE NOTED.
- . 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.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE 'E' AND 'F' SIGNS SHALL BE GRADE C REFLECTIVE SHEETING UNLESS OTHERWISE.
- . 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.

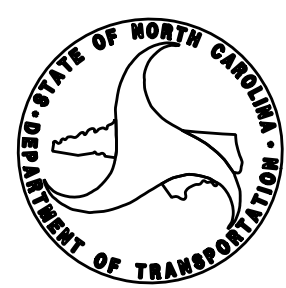
**INDEX**

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
SIGN-1	TITLE SHEET
SIGN-2-2C	SUPPORT INFORMATION
SIGN-2D-2E	BRIDGE MOUNTED SIGN DETAIL
SIGN-3-3L	OVERHEAD STRUCTURE LINE DRAWINGS
SIGN-4-4G	SIGN DESIGN, TYPE E & F, AND MILEMARKERS
SIGN-5-12	SIGNING PLAN SHEETS

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

RENEE ROACH, PE, CPM SIGNING & DELINEATION REGIONAL ENGINEER

SAMUEL COLEMAN, EI SIGNING & DELINEATION PROJECT DESIGN ENGINEER




PLAN PREPARED BY :



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

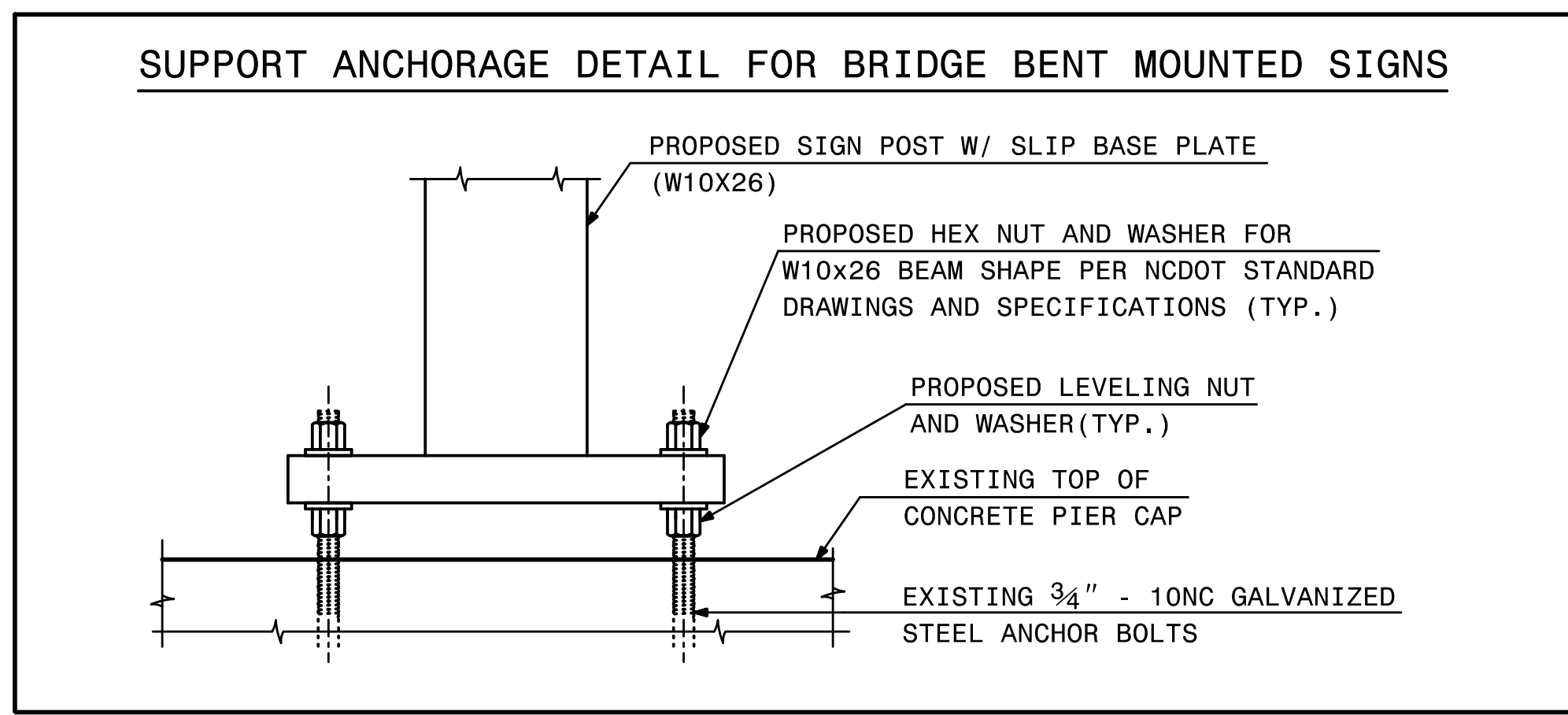
C.A. JOHNSON, III, PE *SIGNING PROJECT ENGINEER*  
A.D. KLINKSIEK, PE, PTOE *SIGNING DESIGN ENGINEER*  
T.R. TERRELL *SIGNING DESIGN TECHNICIAN*

TIP NO. U-2524D	SHEET NO. SIGN-2
APPROVED: <i>Charles A. Johnson, III</i> 5/4/2016	
DATE: 5/4/2016	
	
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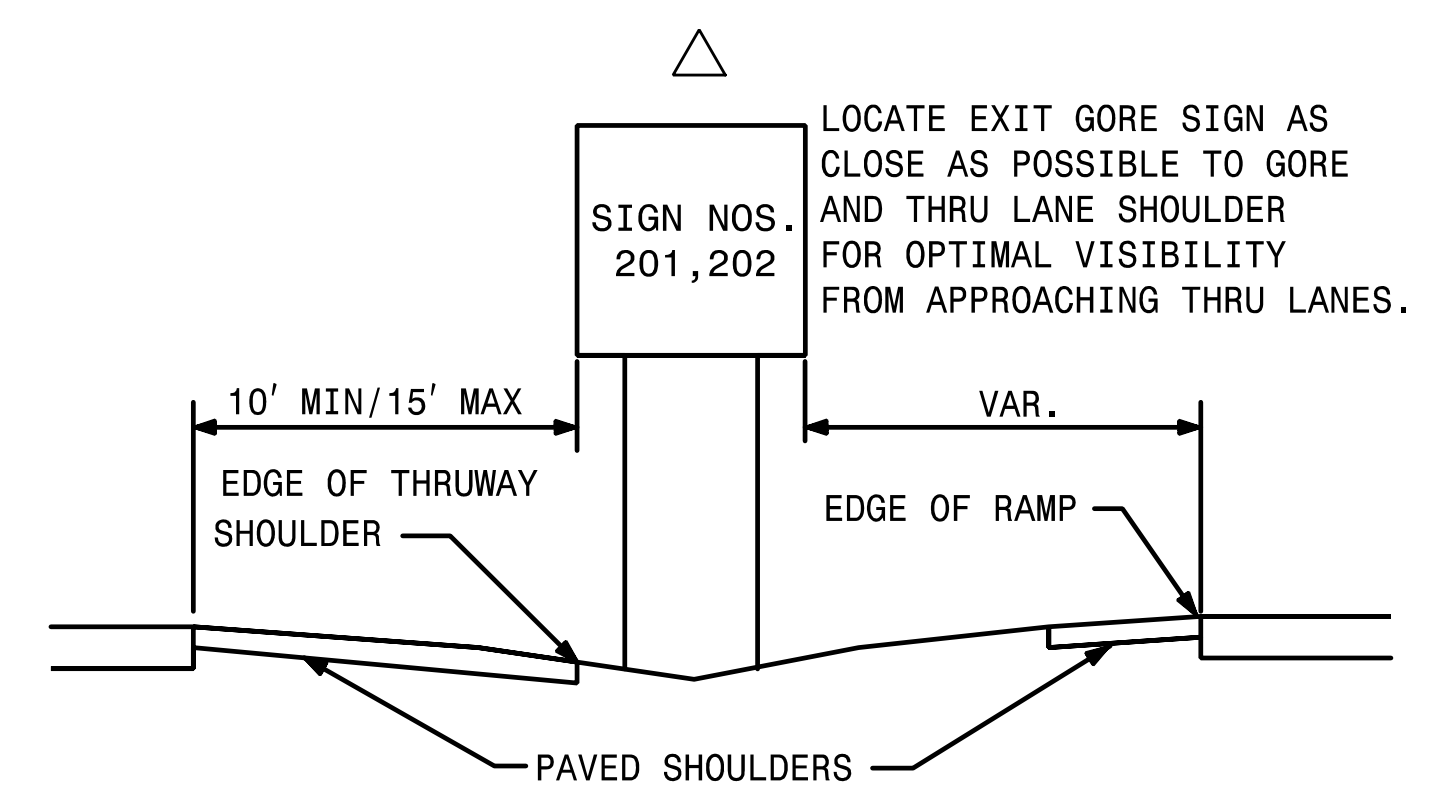
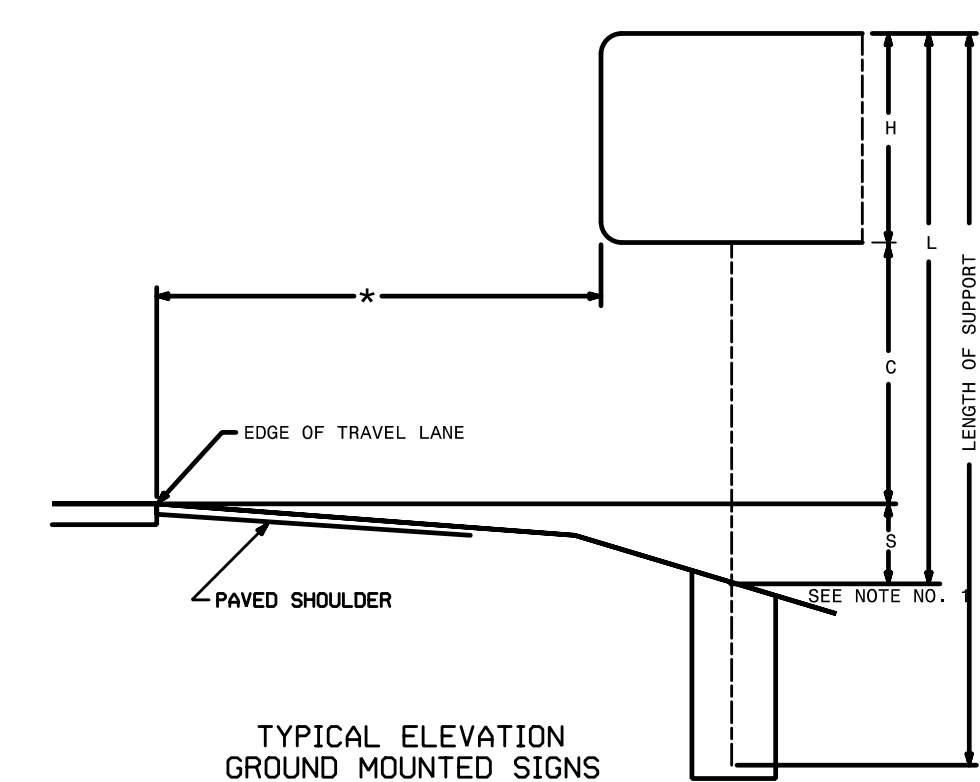
SIGN NO.	SIGN TYPE	SIGN SIZE (in.) w x h	ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (ft.)	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			FOOTING DIAMETER (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	PLAIN FTGS. (c.y.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)																	
										SNS HT H	MTG HT C	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH																								
**101	B	90 X 30	-RPAY4- 13+51.96 LT	1	W10x26	BA	N/A	N/A	6.17	2.50	7.00	0	7.20	16.70	16.70	0.00	0.00	0.00	0.00	0.00	0.00	0	0	434.20	0.00	0.00	0.00																		
102	A	246 X 90	-L- 434+00 LT	3	W6x16	BA	N/A	N/A	30.00	7.50	9.21	5.5	3.40	20.11	25.61	1.44	18.15	23.65	-2.21	14.50	20.00	1.50	6	1249.16	0.00	1.18	0.00																		
103	A	192 X 90	-L- 474+50	2	W6x16	BA	N/A	N/A	26.00	7.50	7.00	5.5	3.11	17.61	23.11	0.00	0.00	0.00	2.22	16.72	22.22	1.50	6	819.28	0.00	0.79	0.00																		
201	A	60 X 90	-L- 422+50 +/- LT	1	W6x9	BA	N/A	N/A	△	7.50	7.00	4	0.50	15.00	19.00	0.00	0.00	0.00	0.00	0.00	0.00	1.50	4.5	203.00	0.00	0.29	0.00																		
202	A	78 X 60	-L- 487+18 +/-	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	1.00	4	218.40	0.00	0.00	0.23																		
																						TOTAL	2924.04	TOTAL	0.00	TOTAL	2.26	TOTAL	0.23																

\*\*SIGN MOUNTED ON BRIDGE BENT - SEE "SUPPORT ANCHORAGE DETAIL FOR BRIDGE BENT MOUNTED SIGNS" BELOW

USE: TOTAL 2925 0 3 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.



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

APPROVED: *Ronald W. King*  
DATE: 5/4/2016



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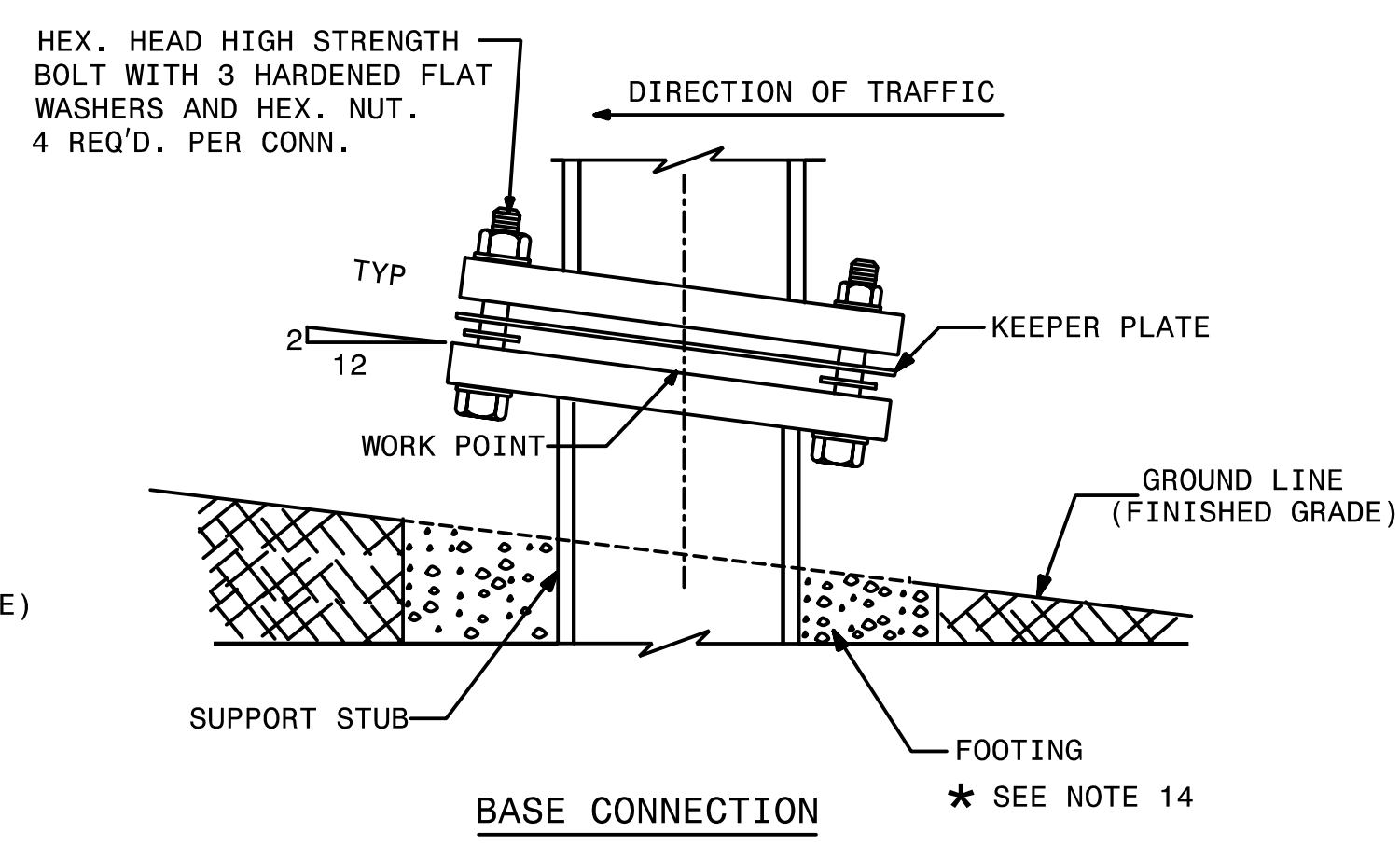
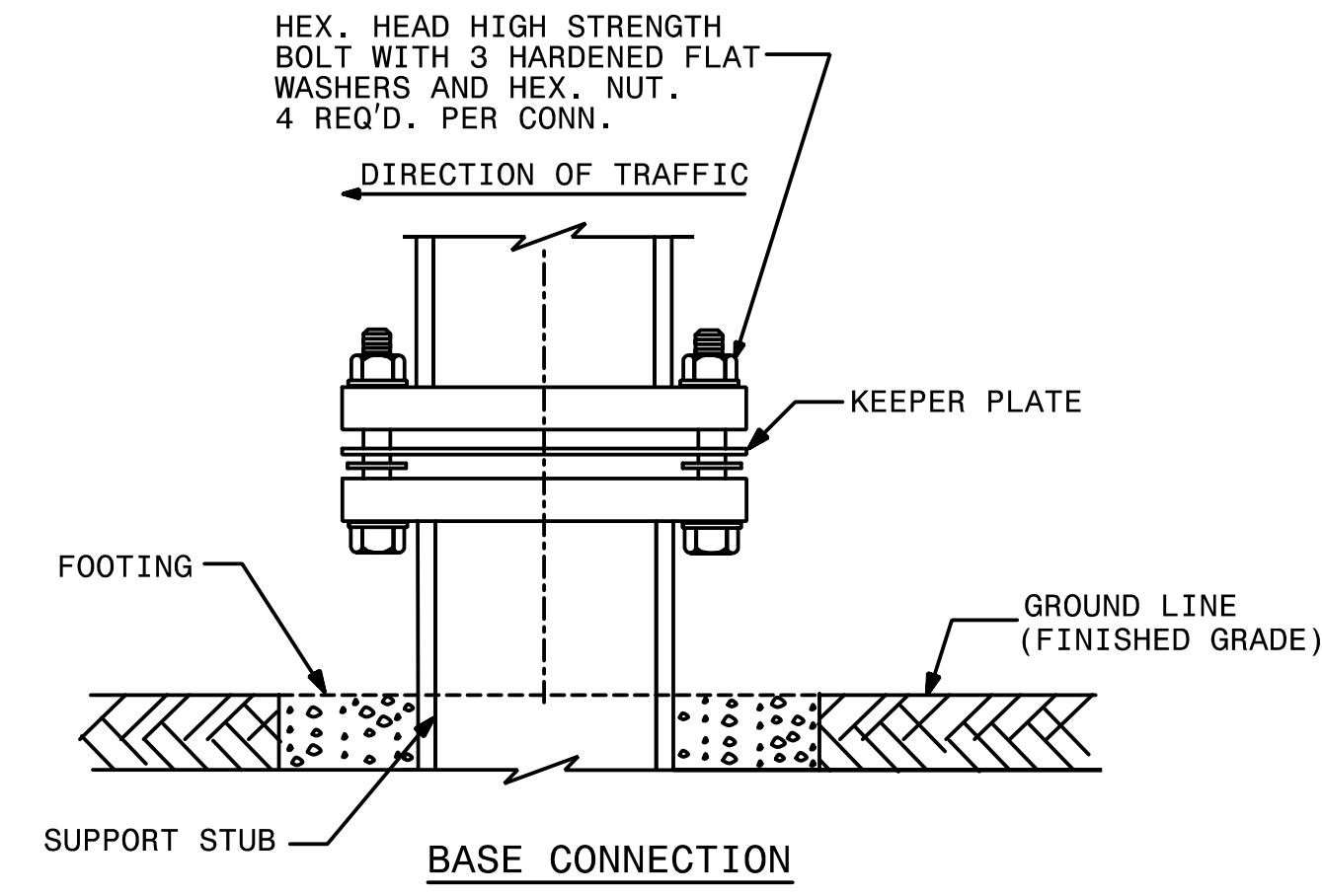
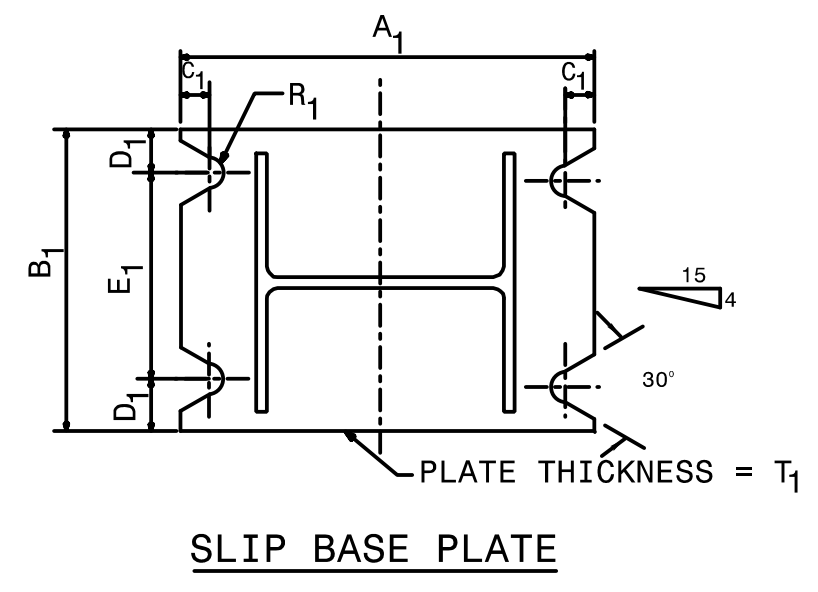
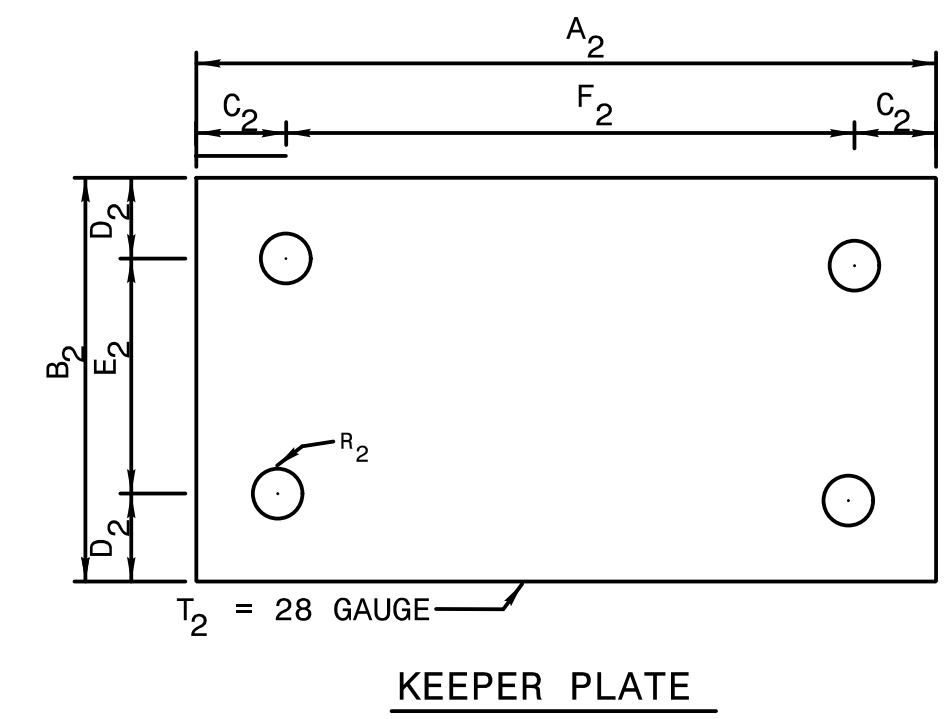
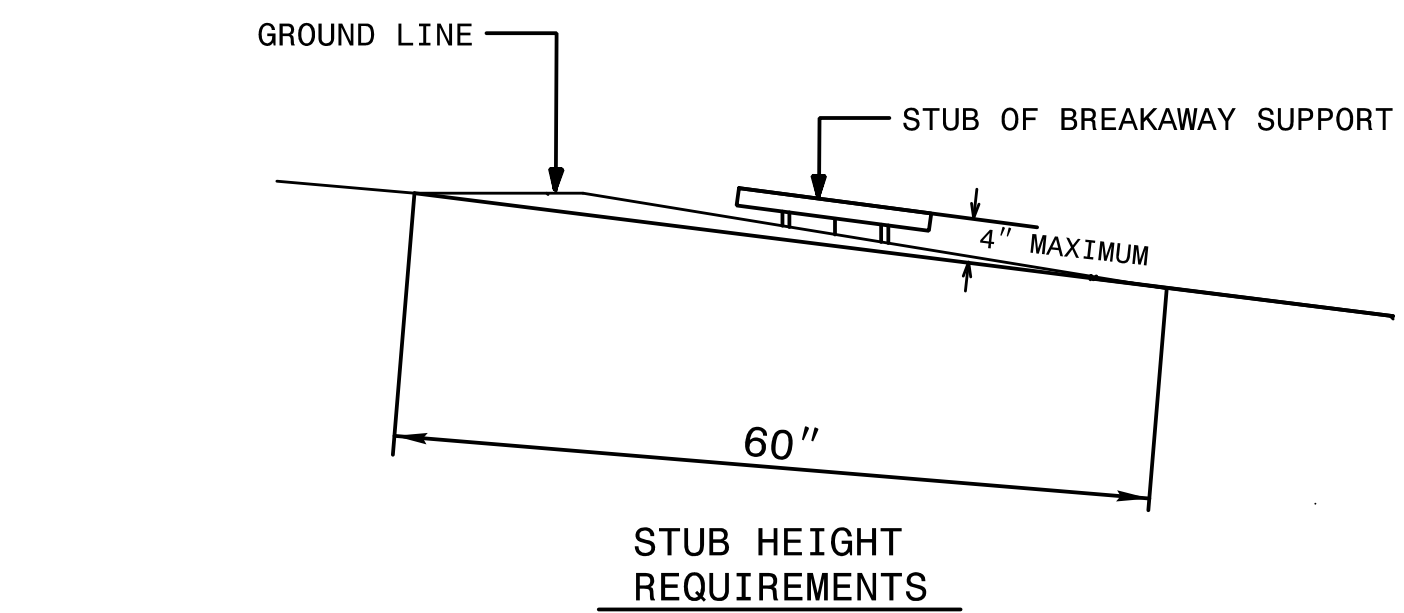
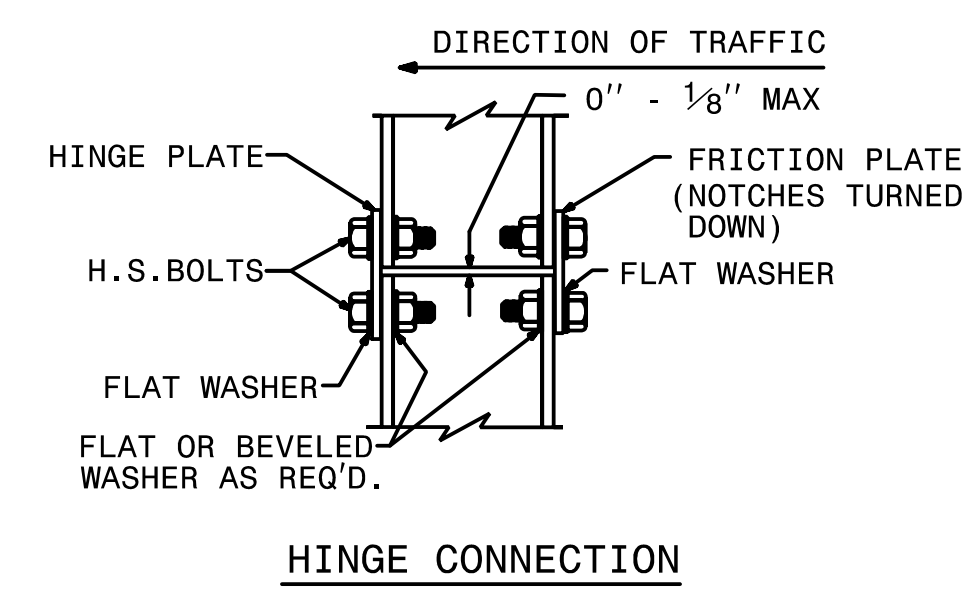
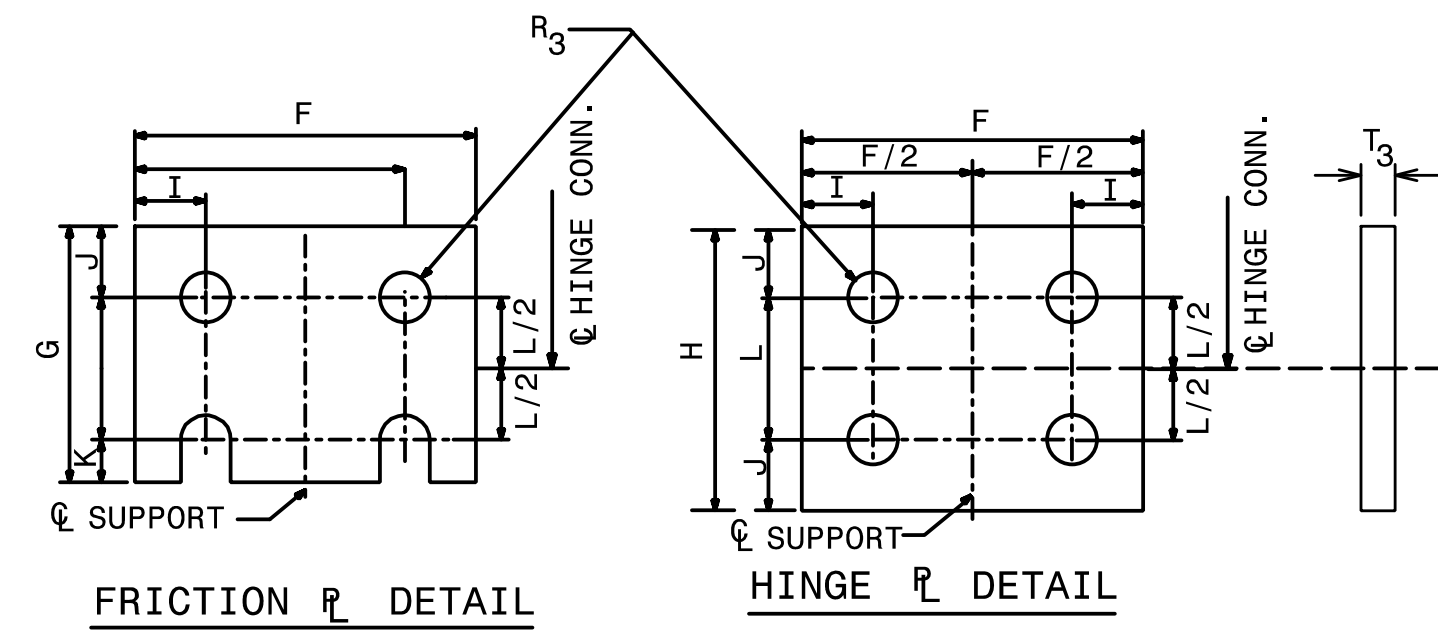
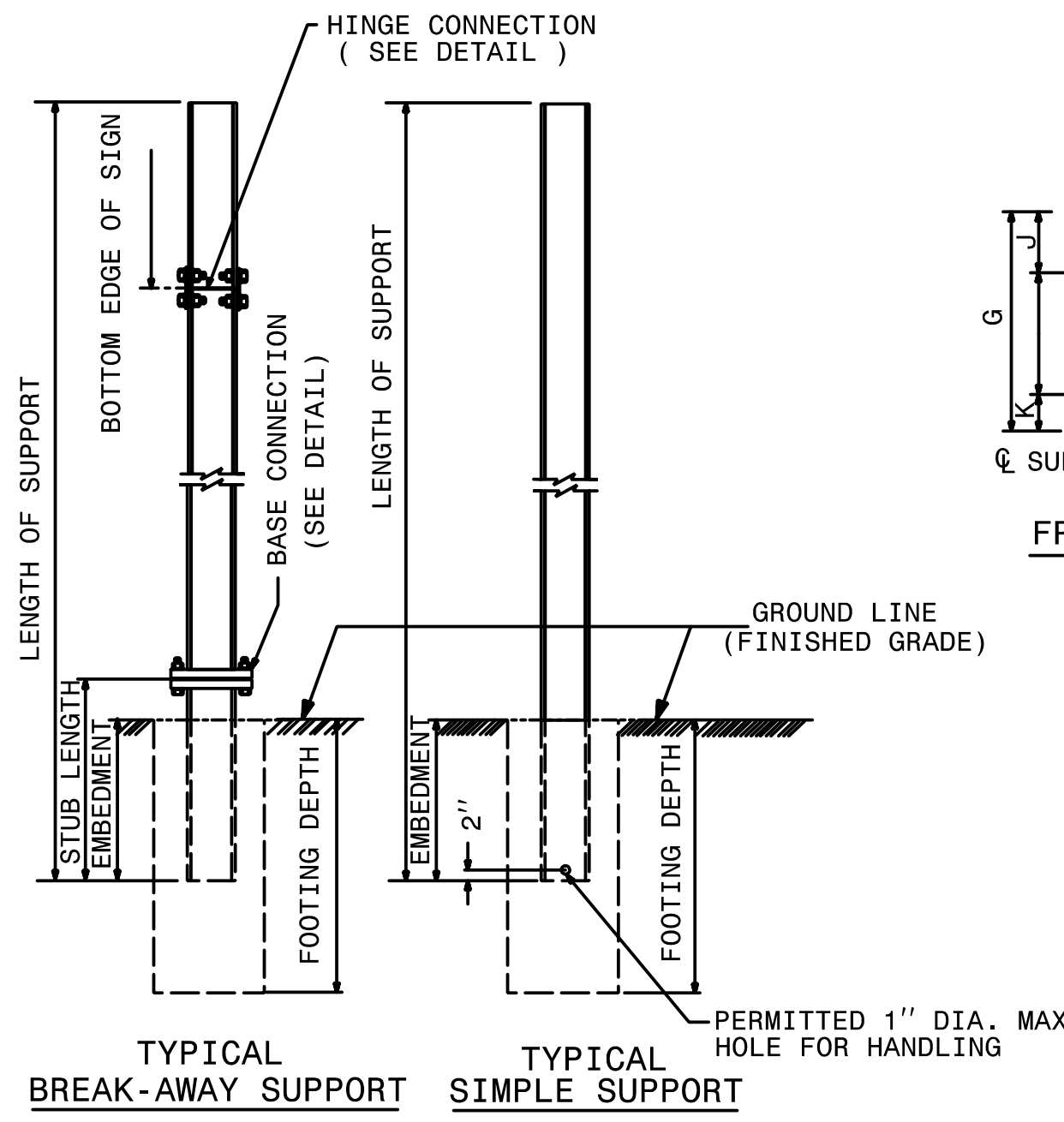
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

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  
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RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR  
**GROUND MOUNTED SIGN SUPPORTS**

SHEET 1 OF 3

**903D10**

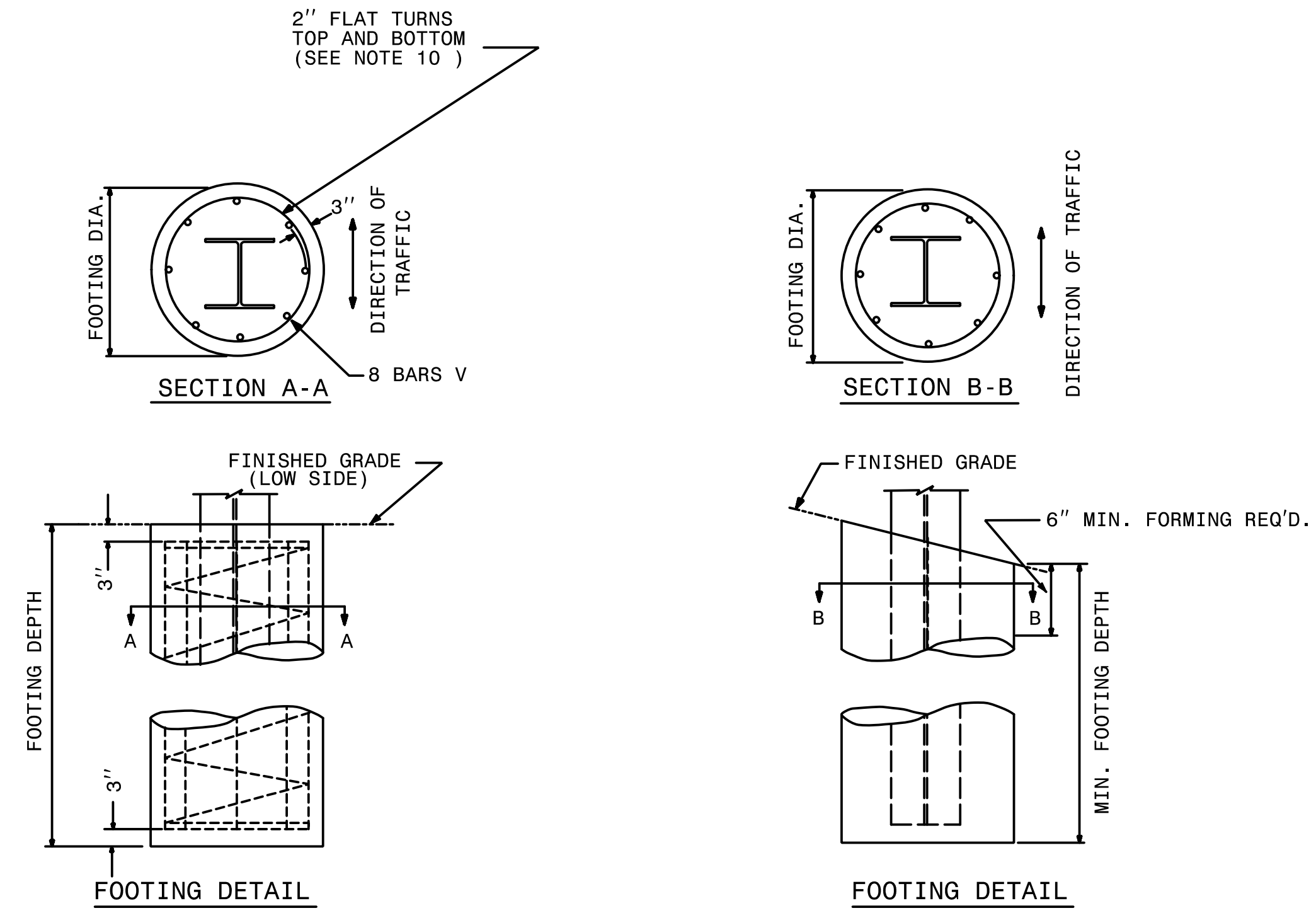
TIP NO. U-2524D	SHEET NO. SIGN-2B
APPROVED: <i>Ronald W. King</i> 13E7AF7B9AA4448	
DATE: 5/4/2016	
SEAL	
	
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STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

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 <sub>1</sub>	B <sub>1</sub>	C <sub>1</sub>	D <sub>1</sub>	E <sub>1</sub>	T <sub>1</sub>	R <sub>1</sub>	A <sub>2</sub>	B <sub>2</sub>	C <sub>2</sub>	D <sub>2</sub>	E <sub>2</sub>	R <sub>2</sub>	T <sub>2</sub>	BOLT SIZE	F	G	H	I	J	K	L	R <sub>3</sub>		T <sub>3</sub>
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 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 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 1/32"	14"	7"	1 1/2"	1"	5"	1 1/32"	28 GAUGE	3/4"DIA. X 2 1/2"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 1/32"	1/2"	73
W10X22	3/4"DIA. X 4 1/2"	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 1/2"	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 5 1/2"	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 5 1/2"	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 6"	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 6"	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"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 1/32"	3/4"	223
W18X35	1"DIA. X 6"	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"	6"	7"	8"	1 1/4"	2"	1"	4"	1 1/32"	3/4"	243
W18X40	1"DIA. X 6 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 1/2"	6"	7"	8"	1 1/4"	2"	1"	4"	1 1/32"	7/8"	278
W21X44	1"DIA. X 7"	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 1/2"	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  
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ENGLISH DETAIL DRAWING FOR  
**GROUND MOUNTED SIGN SUPPORTS**

SHEET 2 OF 3  
**903D10**

TIP NO. U-2524D	SHEET NO. SIGN-2C
APPROVED: <i>Ronald W. King</i> 13E7A7FB8AA4448	
DATE: 5/4/2016	
SEAL	
	
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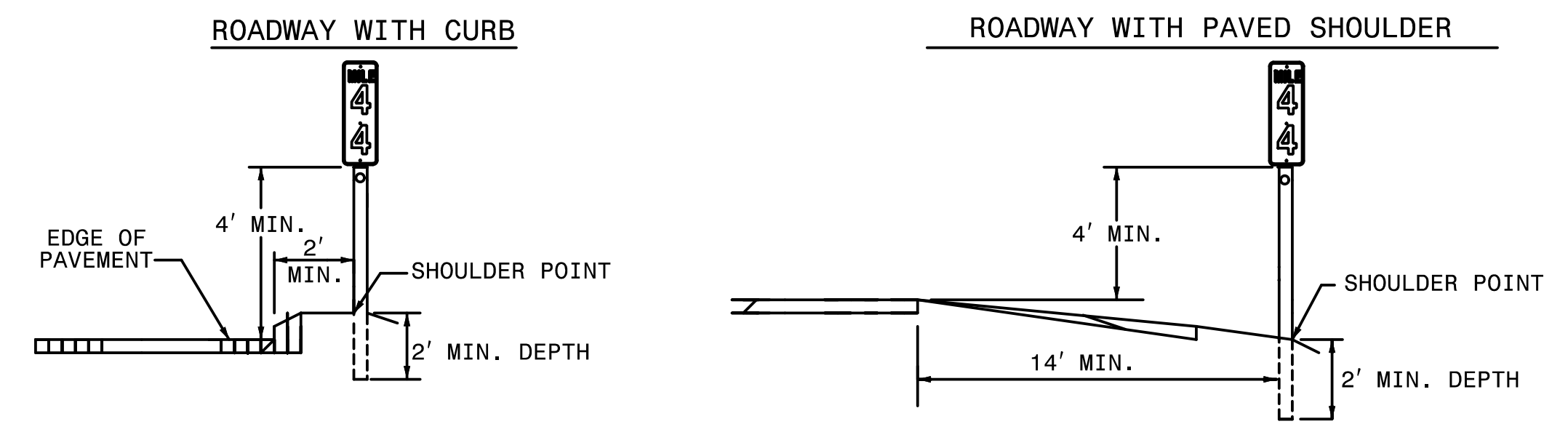
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
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RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR  
MILEPOST AND PLACEMENT

SHEET 1 OF 1  
**904D40**

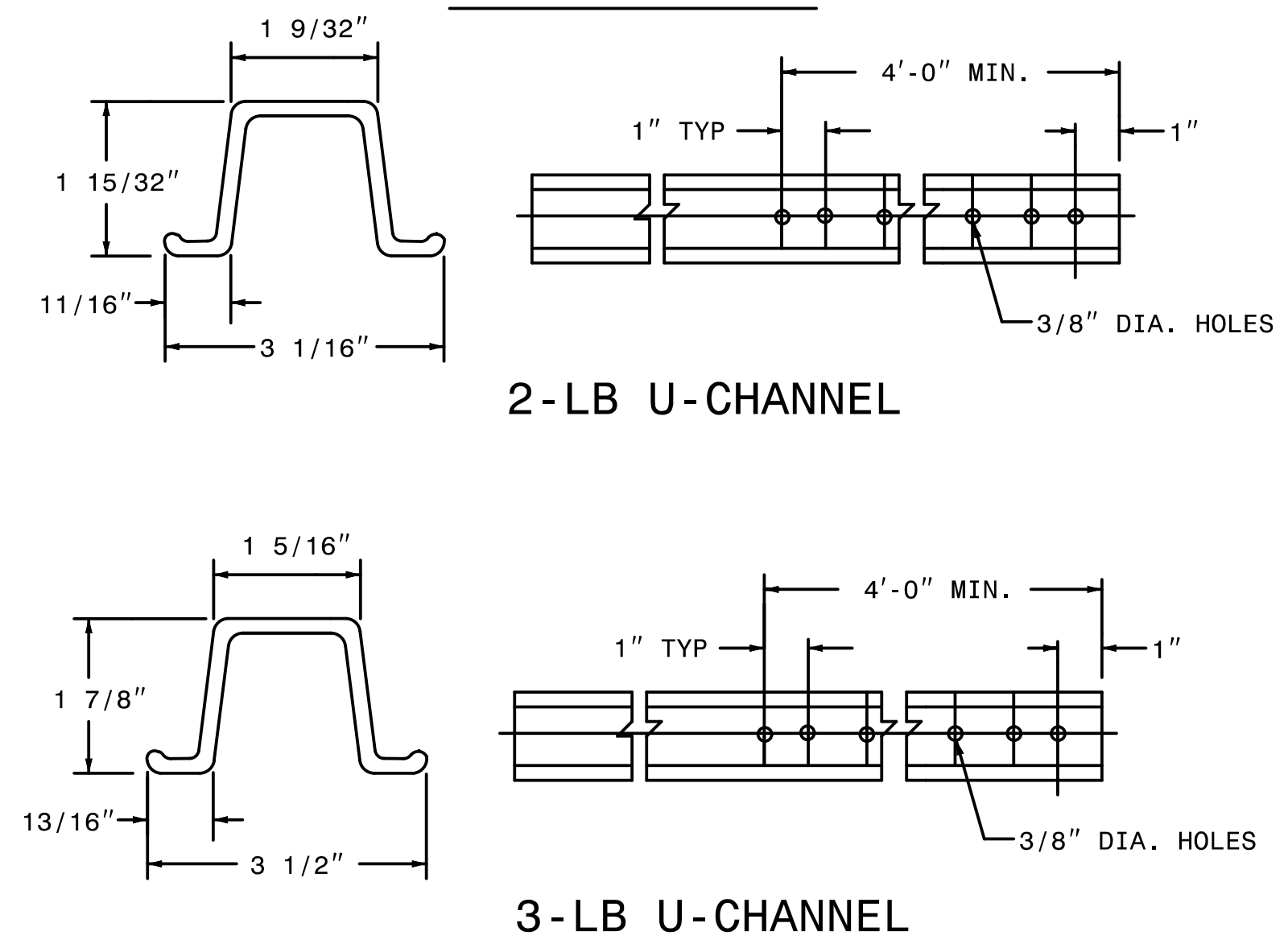
**MILEPOST PLACEMENT**



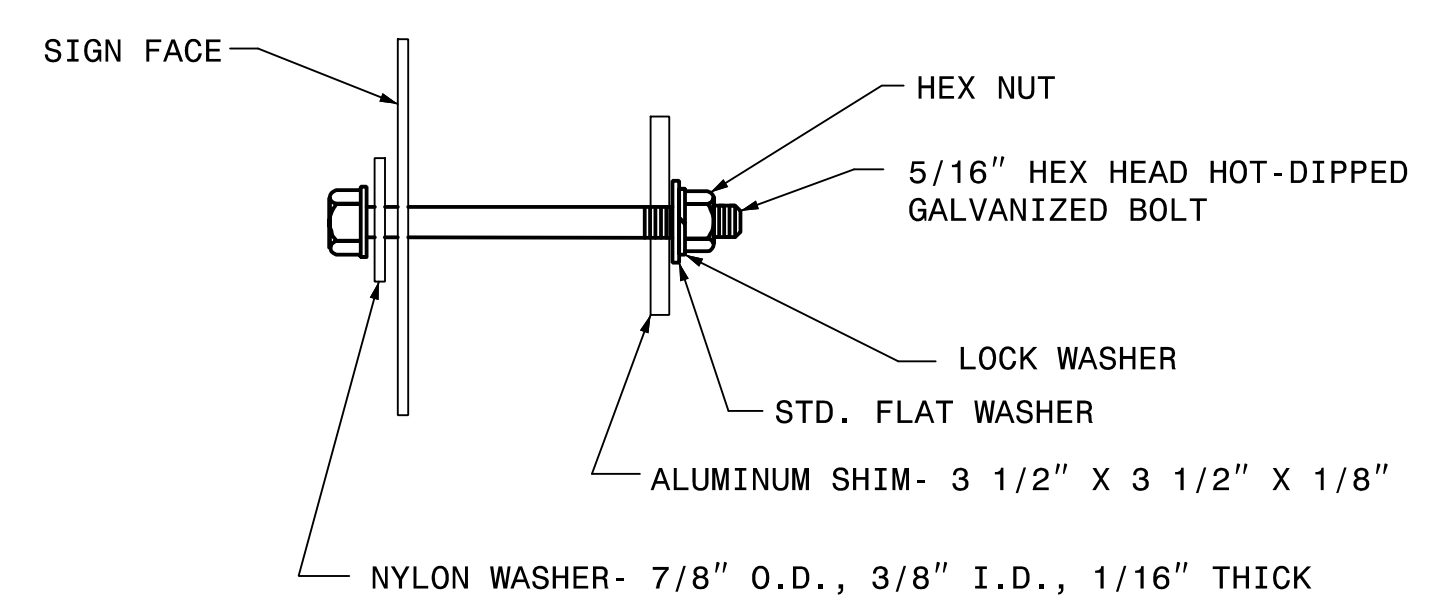
**NOTES:**

1. A MILEPOST SIGN SHALL CONSIST OF ONE (1) 12" X 24", 12" X 36" OR 12" X 48" SIGN PANEL. AN ENHANCED REFERENCE LOCATION SIGN SHALL CONSIST OF ONE (1) 18" X 54" SIGN PANEL. AN INTERMEDIATE ENHANCED REFERENCE LOCATION SIGN SHALL CONSIST OF ONE (1) 18" X 60" SIGN PANEL.
2. FABRICATE SIGNS FROM .080" SHEET ALUMINUM. EACH SIGN SHALL HAVE WHITE STUCK-ON MESSAGE AND BORDER ON GREEN BACKGROUND. MESSAGE, BORDER AND BACKGROUND TO BE REFLECTORIZED.
3. MILEPOST LOCATION SIGNS REQUIRE ONE (1) 2-LB GALVANIZED STEEL U-CHANNEL POST AND ENHANCED REFERENCE LOCATION SIGNS REQUIRE ONE (1) 3-LB GALVANIZED STEEL U-CHANNEL POST. THE POST'S LENGTH MUST MEET THE REQUIREMENTS SHOWN IN THESE STANDARDS.
4. POSTS SHALL BE DRIVEN. THE TOP OF POST SHALL NOT PROJECT ABOVE THE TOP OF SIGN.
5. ATTACH EACH SIGN TO THE WIDE FACE (FLANGES) OF THE POST BY MEANS OF THE FOLLOWING COMBINATION- 5/16" HEX HEAD BOLT, NYLON WASHER, SHIM, FLAT WASHER, LOCK WASHER, HEX NUT. FULL CONTACT BETWEEN THE SIGN AND THE POST SHALL BE ACHIEVED. NO BUCKLING OF THE SIGN WILL BE PERMITTED.
6. PLACE MILEPOST SIGNS AT THE SHOULDER POINT UNLESS THE ENGINEER DIRECTS OTHERWISE.

**POST DETAILS**



**FASTENER**



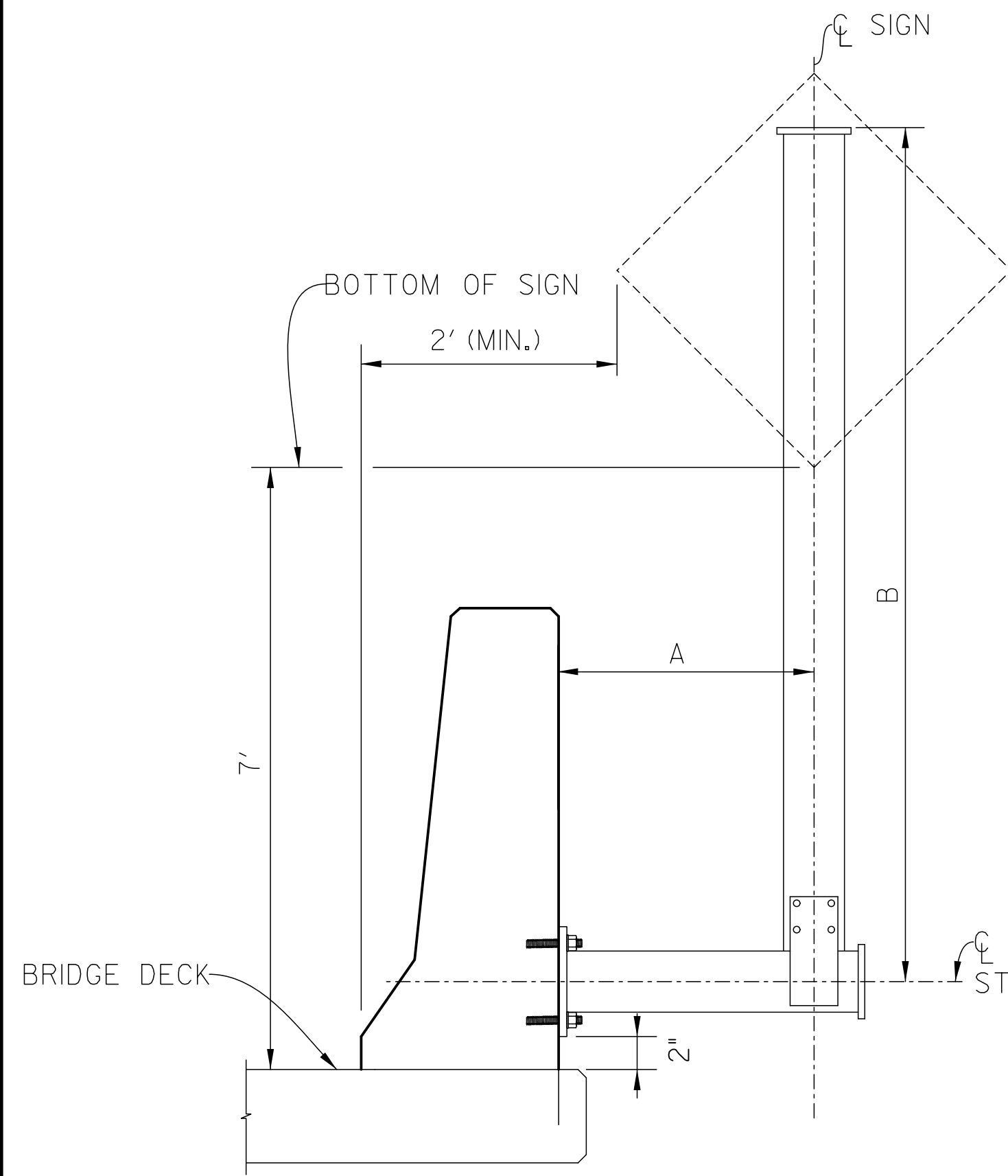
STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR  
MILEPOST AND PLACEMENT

SHEET 1 OF 1  
**904D40**

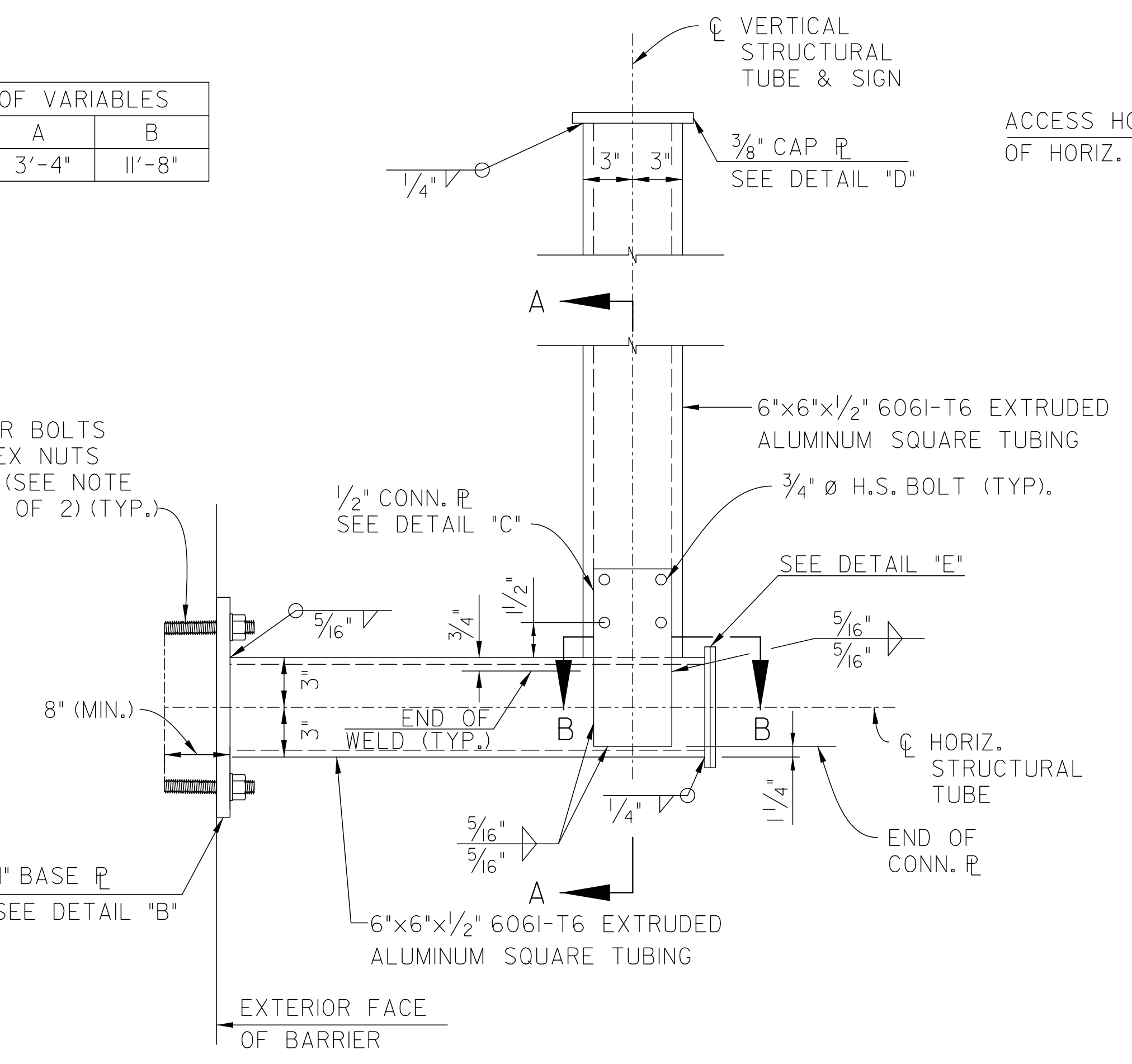
TIP NO. U-2524D	SHEET NO. SIGN-2D
APPROVED: <i>David W. Hawkins</i> 6/15/2016	
DATE: 6/15/2016	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



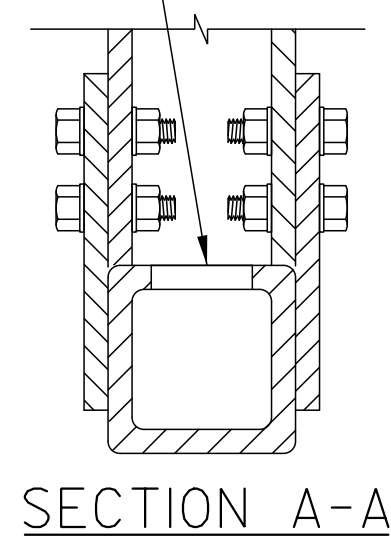
SIGN SUPPORT BRACKET

SIGN NO.	A	B
401	3'-4"	11'-8"

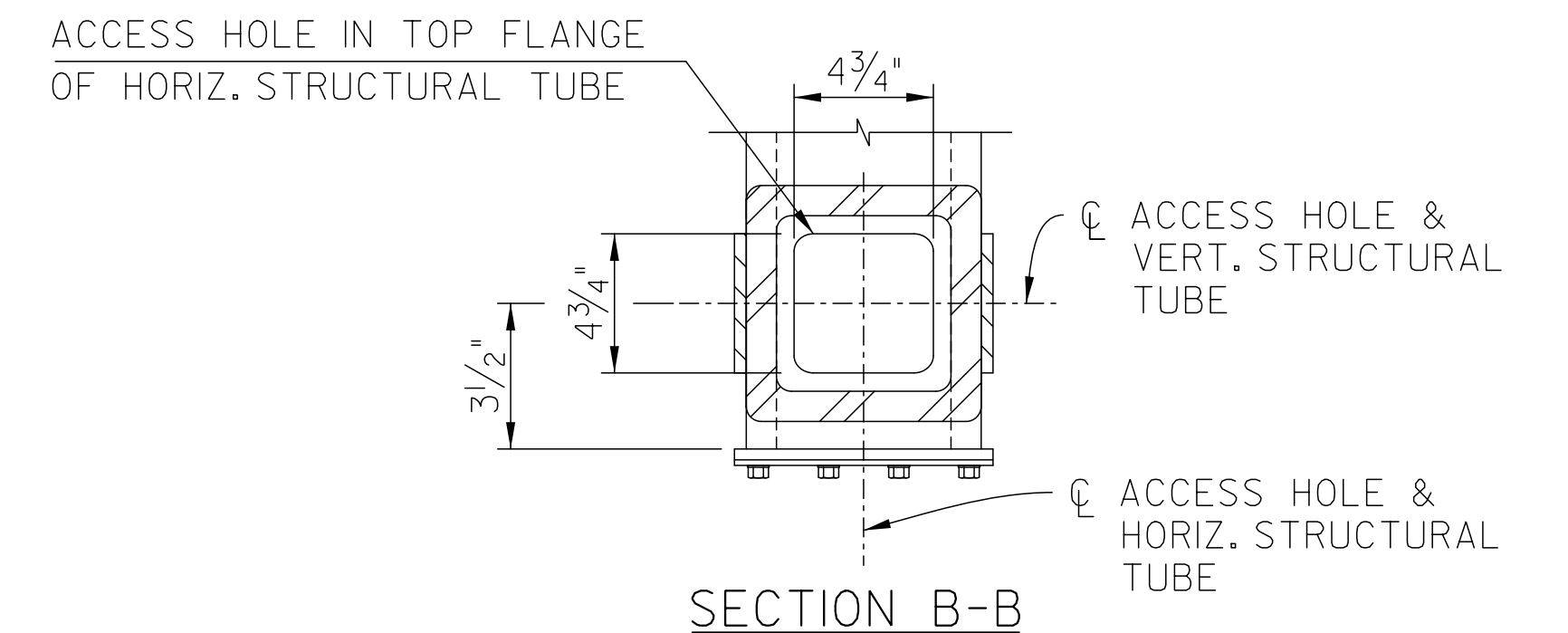
1"  $\varnothing$  H.S. ANCHOR BOLTS WITH HEAVY HEX NUTS AND WASHERS (SEE NOTE 8 ON SHEET 2 OF 2) (TYP.)



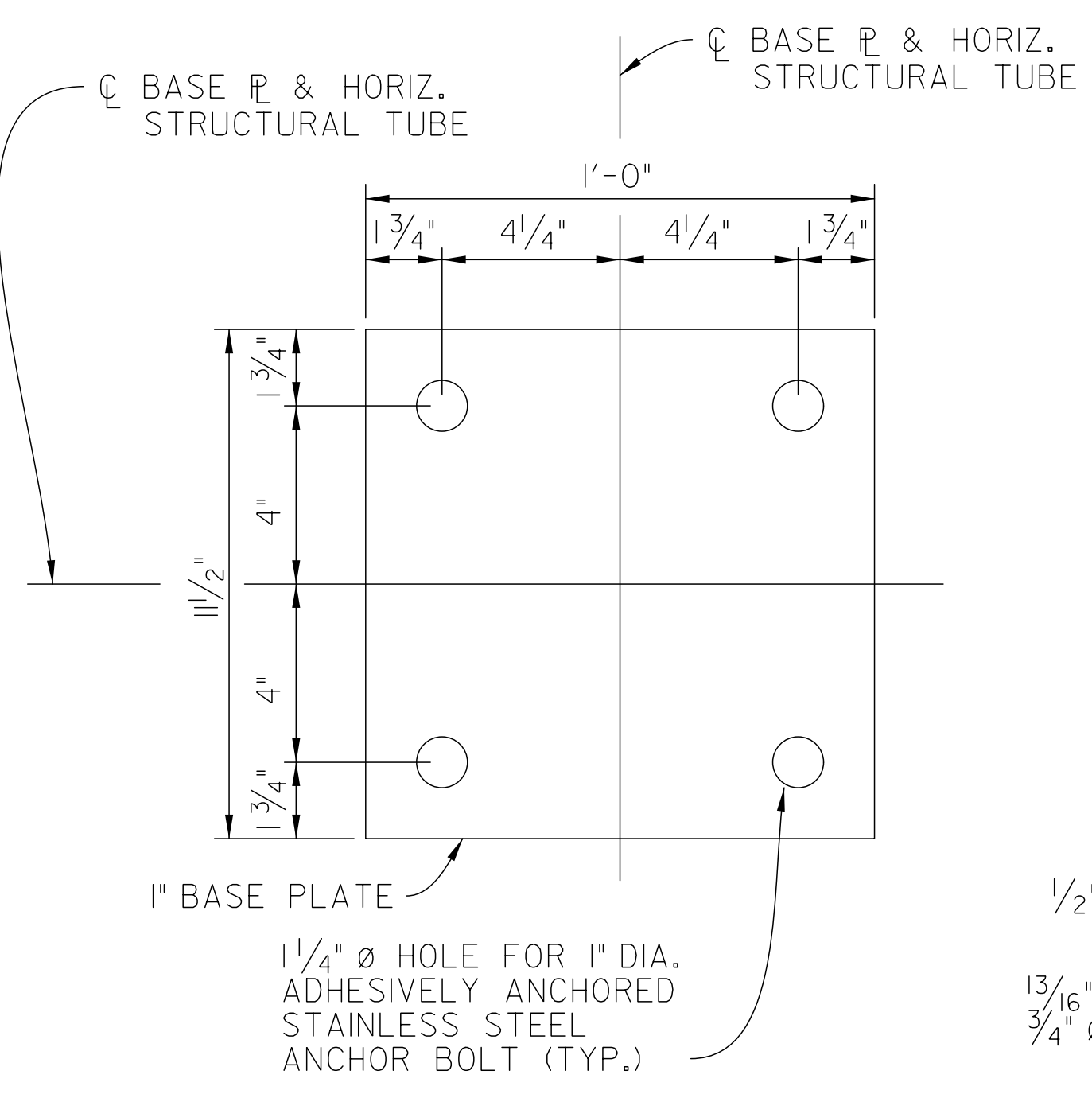
DETAIL "A"



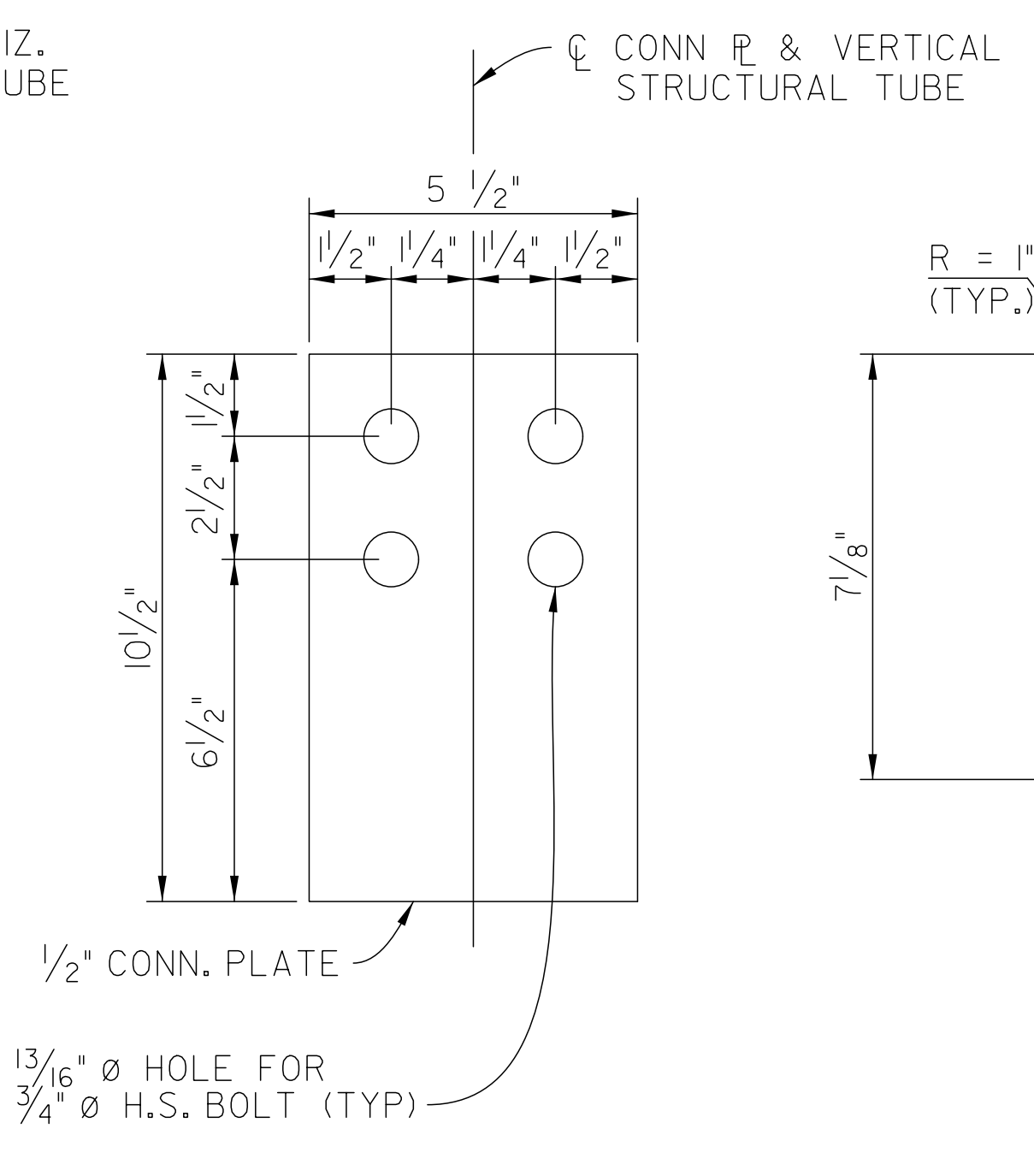
SECTION A-A



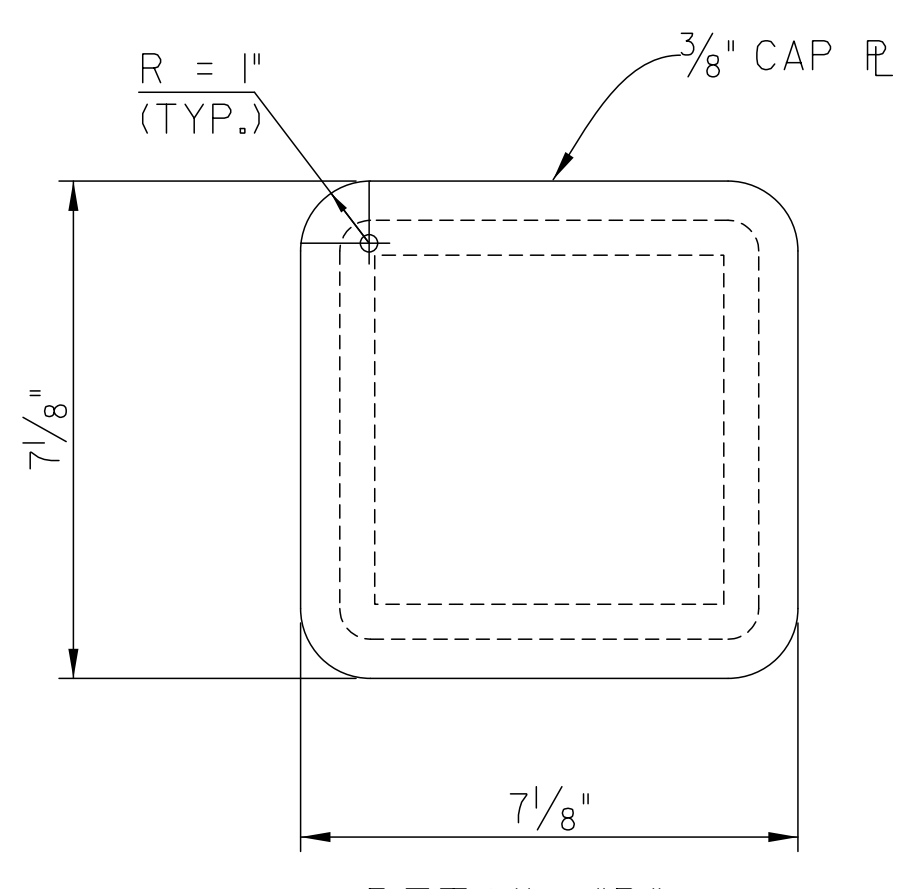
SECTION B-B



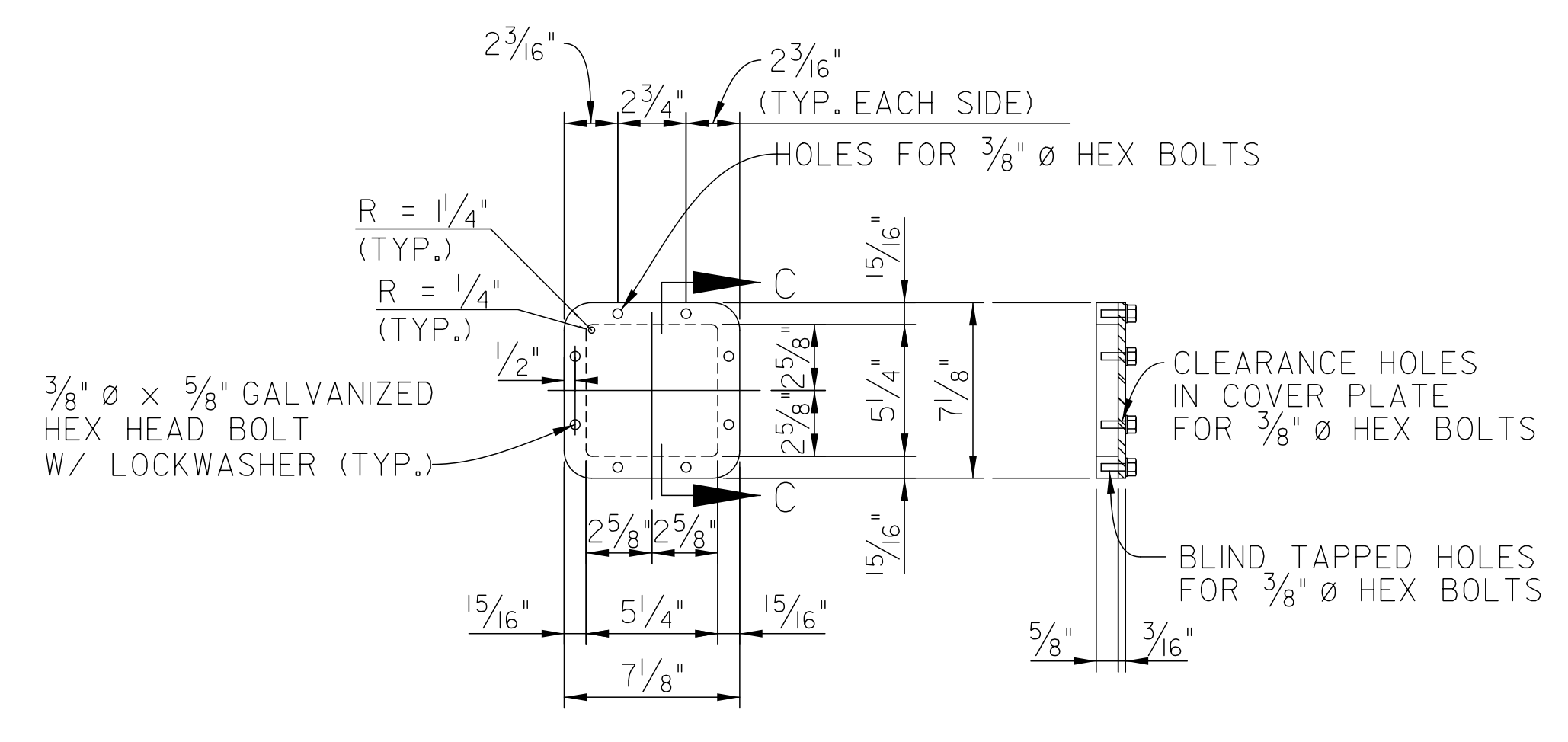
DETAIL "B"



DETAIL "C"



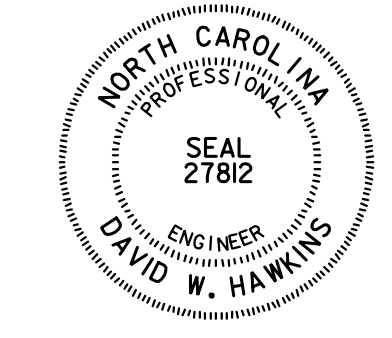
DETAIL "D"

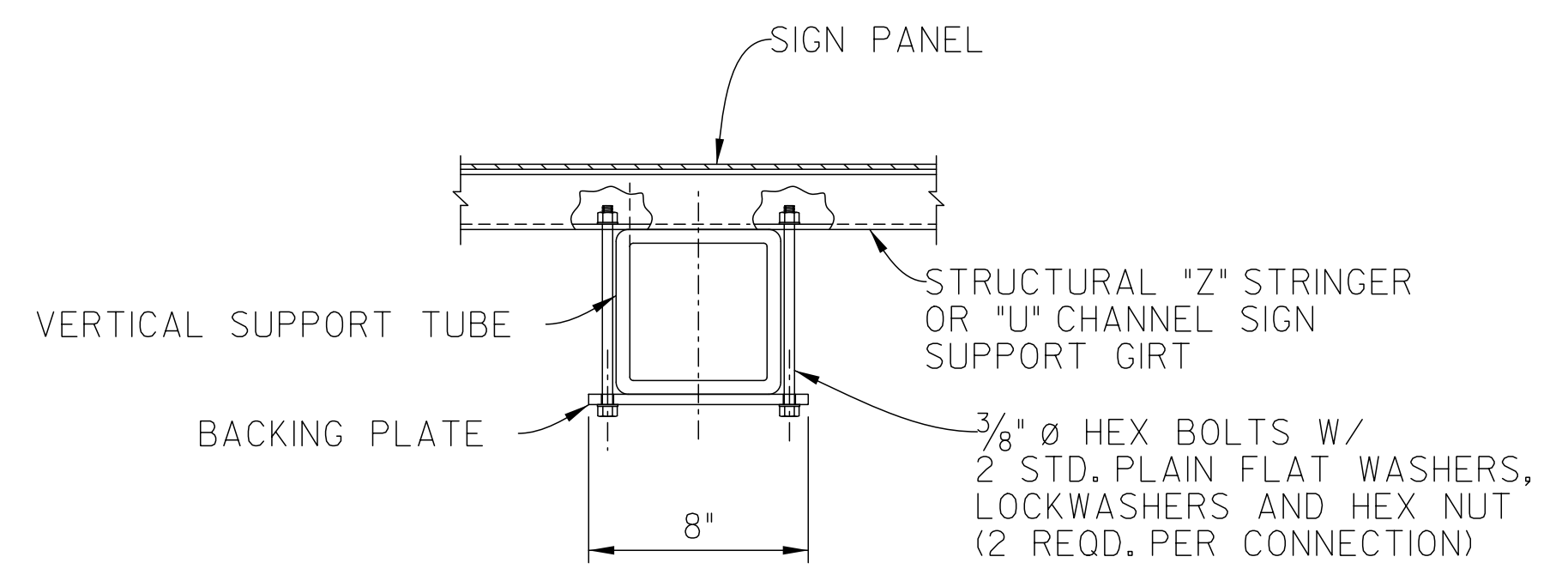


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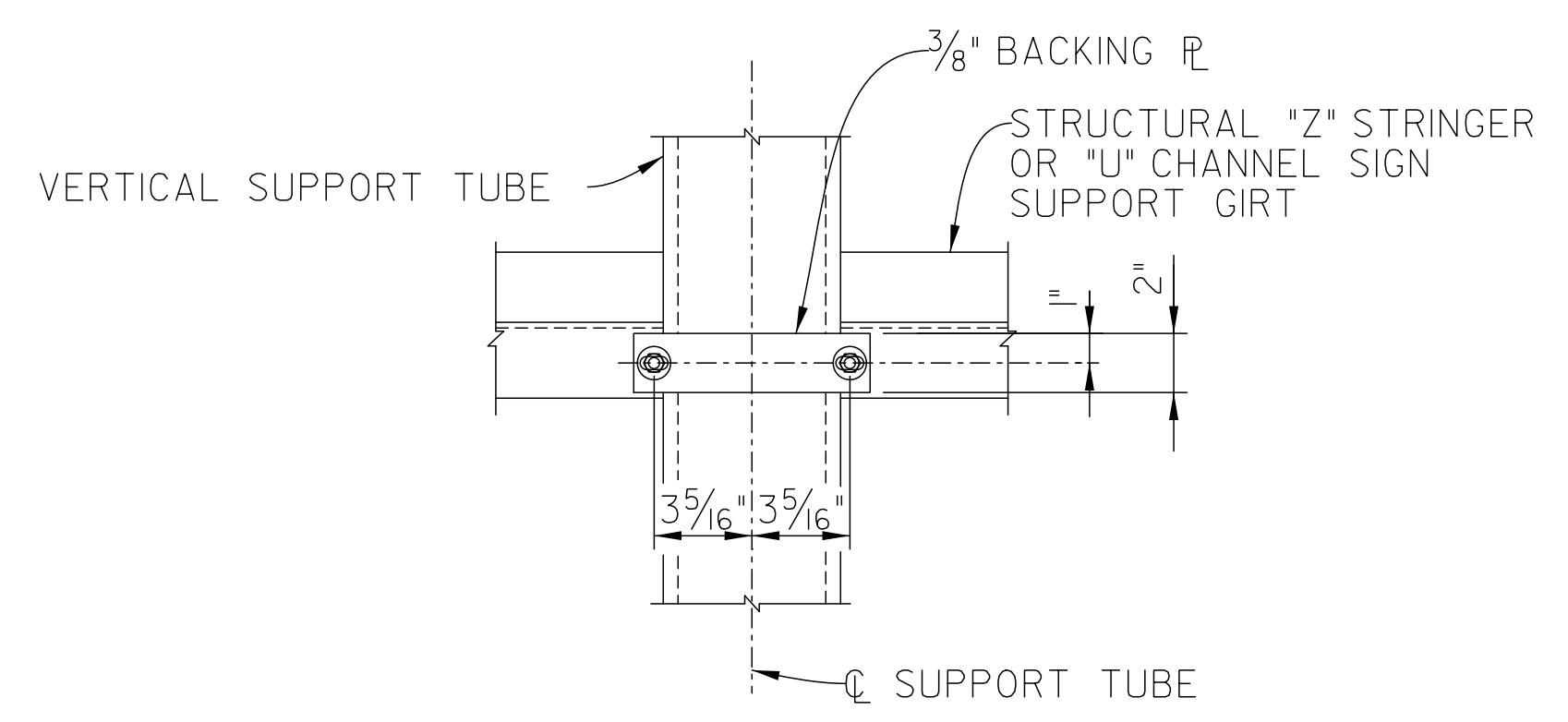
SECTION C-C

NOTE:  
SEE NOTES ON SHEET 2 OF 2

TIP NO. U-2524D	SHEET NO. SIGN-2E
APPROVED: <u>David W. Hawkins</u>	
DATE: 6/15/2016	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	



PLAN VIEW



ELEVATION

SIGN CONNECTION DETAILS

NOTES:

1. INFORMATION ON THIS DRAWING IS GIVEN PRIMARILY FOR STRUCTURAL FABRICATION AND ERECTION OF NON-STANDARD BRIDGE MOUNTED SIGN SUPPORT ASSEMBLIES. ANY ADDITIONAL SIGN INFORMATION REQUIRED SHALL BE FOUND ELSEWHERE IN THE SIGNING PLANS.
2. ALL BOLTS IN VERTICAL AND HORIZONTAL STRUCTURAL STEEL TUBE CONNECTIONS SHALL BE 3/4" Ø STAINLESS STEEL/300 SERIES HIGH STRENGTH BOLTS CONFORMING TO ASTM F593.
3. FOR ADHESIVELY ANCHORED ANCHOR BOLTS, SEE SECTION 420 OF THE STANDARD SPECIFICATIONS.
4. ALL PLATE SHALL BE 6061-T6 ALUMINUM PER ASTM B209.
5. ALL TUBING SHALL BE 6061-T6 ALUMINUM PER ASTM B221.
6. THE 1" BASE PLATE, OR ANY OTHER ALUMINUM SURFACE IN CONTACT WITH CONCRETE SHALL BE THOROUGHLY COATED WITH AN ALUMINUM IMPREGNATED CAULKING COMPOUND OF APPROVED QUALITY.
7. WELDING SHALL COMPLY WITH AWS D1.2/D1.2M STRUCTURAL WELDING CODE - ALUMINUM.
8. THE CONTRACTOR MAY CHOOSE ONE OF THE FOLLOWING TWO OPTIONS FOR ANCHOR BOLTS:
  - A. ADHESIVE ANCHOR OPTION:
 

INSTALL ANCHORS IN ACCORDANCE WITH THE SPECIAL PROVISION "ADHESIVELY ANCHORED ANCHOR BOLTS OR DOWELS". LEVEL TWO FIELD TESTING IS REQUIRED.

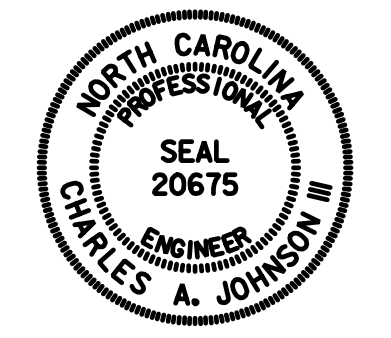
BASE PLATE MUST BE FLUSH WITH BACK FACE OF CONCRETE RAILING. MAINTAIN A MINIMUM COVER OF 2" FROM FACE OF TRAFFIC RAILING TO TIP OF ADHESIVE ANCHOR.
  - B. CAST-IN-PLACE ANCHOR OPTION:
 

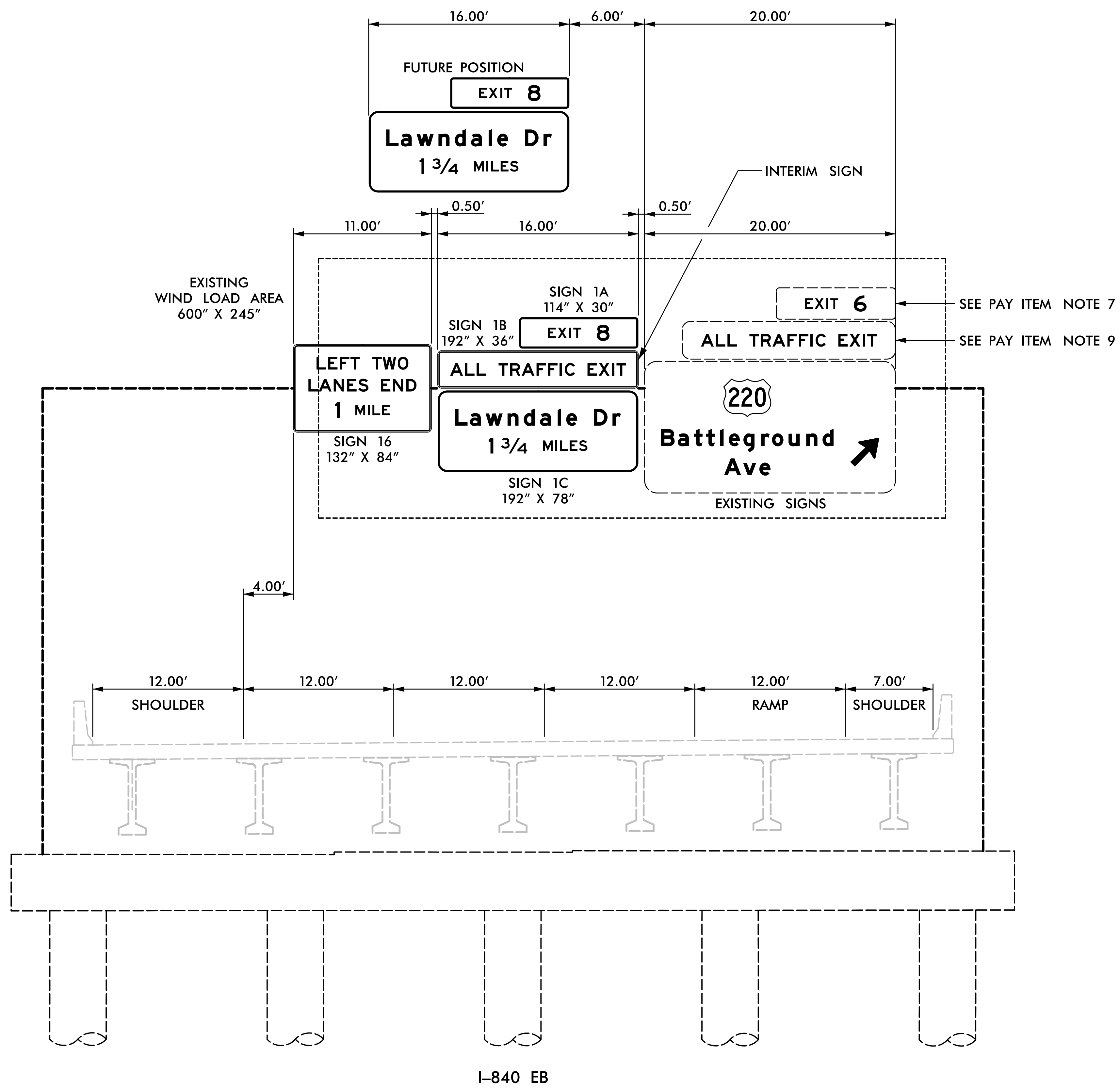
CAST-IN-PLACE ANCHORS SHALL BE 1" DIA. STAINLESS STEEL HEX HEAD BOLTS.

TIE ANCHOR BOLTS SECURELY AND USE TEMPLATES AS NECESSARY TO MAINTAIN BOLT SPACING.

THE CONTRACTOR MAY USE THREADED COUPLERS TO FACILITATE SLIP FORMING OF THE BARRIER RAILS. KEEP COUPLER THREADS FREE OF CONCRETE.



TIP NO. U-2524D	SHEET NO. SIGN-3
APPROVED: <i>Charles A. Johnson, III</i> <small>58A1565B47F54A8...</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

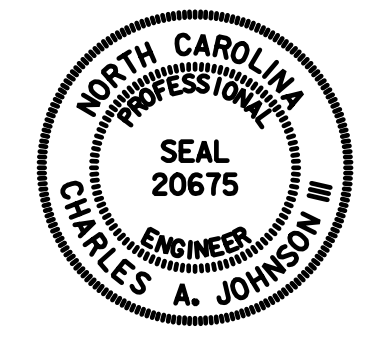


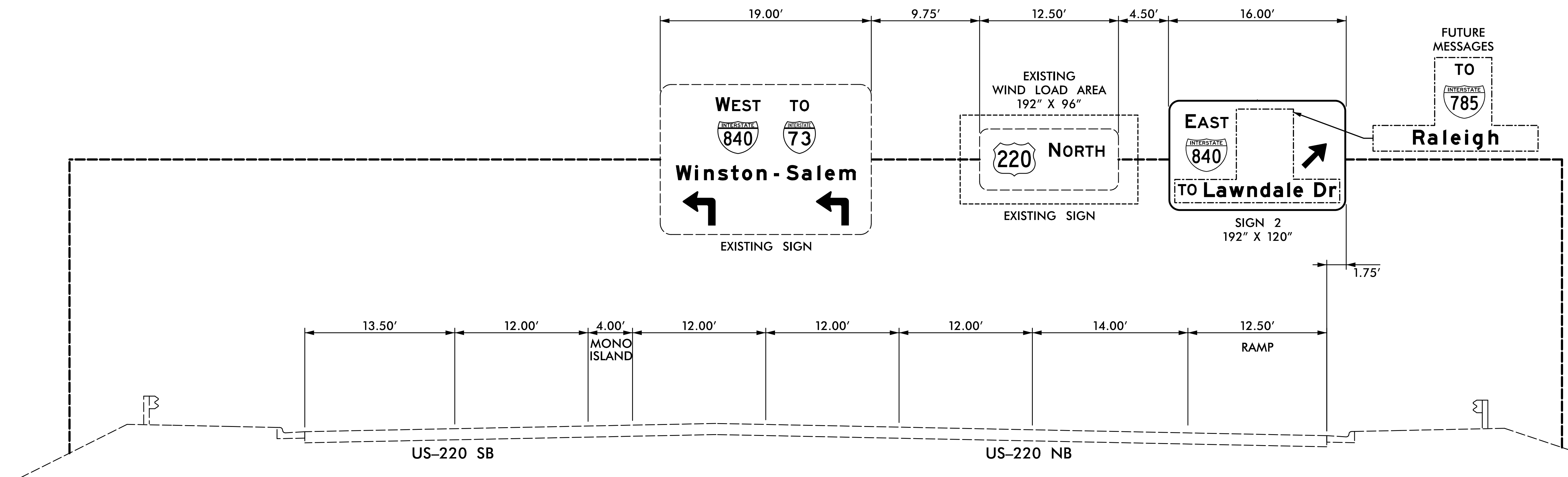
NOTES:

- SEE STANDARD 904-3(B)(3) FOR REQUIREMENTS OF NEW STRUCTURAL MEMBERS, MOUNTING HARDWARE FOR NEW SIGNS, SHOP DRAWINGS, BRACING AND ACCESSORY HARDWARE FOR ATTACHMENTS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE AND MAINTAIN 19' MINIMUM CLEARANCE.

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

**EXISTING BRIDGE MOUNTED  
OVERHEAD SIGN STRUCTURE 'AA'  
-L- STA. 394+32.96**

TIP NO. U-2524D	SHEET NO. SIGN-3A
APPROVED: <i>Charles A. Johnson, III</i> <small>58A1658B47F54A6</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




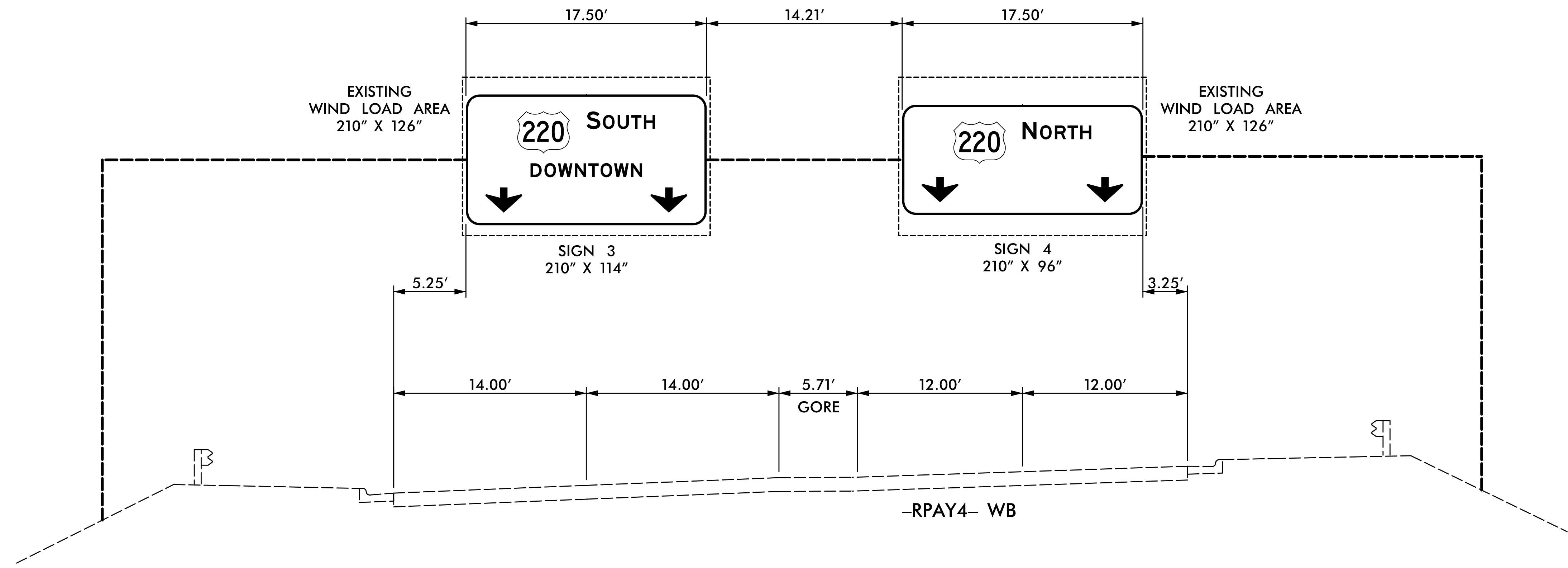
NOTES:

- SEE STANDARD 904-3(B)(3) FOR REQUIREMENTS OF NEW STRUCTURAL MEMBERS, MOUNTING HARDWARE FOR NEW SIGNS, SHOP DRAWINGS, BRACING AND ACCESSORY HARDWARE FOR ATTACHMENTS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE AND MAINTAIN 17' MINIMUM CLEARANCE.

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

**EXISTING  
OVERHEAD SIGN STRUCTURE 'BB'  
-Y4- STA. 33+50**

TIP NO. U-2524D	SHEET NO. SIGN-3B
APPROVED: <i>Charles A. Johnson, III</i> <small>58A156284FF54A6</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




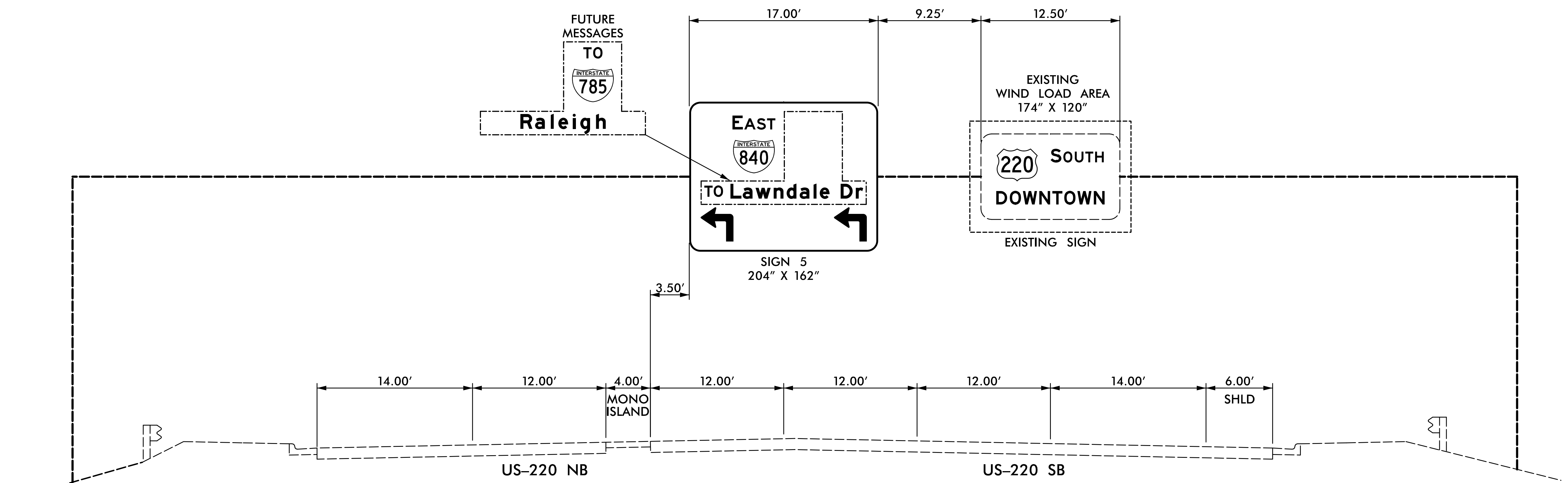
NOTES:

- SEE STANDARD 904-3(B)(3) FOR REQUIREMENTS OF NEW STRUCTURAL MEMBERS, MOUNTING HARDWARE FOR NEW SIGNS, SHOP DRAWINGS, BRACING AND ACCESSORY HARDWARE FOR ATTACHMENTS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE AND MAINTAIN 17' MINIMUM CLEARANCE.

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

**EXISTING  
OVERHEAD SIGN STRUCTURE 'CC'  
-RPAY4- STA. 16+50**

TIP NO. U-2524D	SHEET NO. SIGN-3C
APPROVED: <i>Charles A. Johnson, III</i> <small>05A1568B47F54A6</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

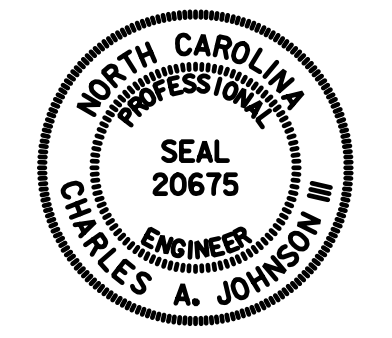


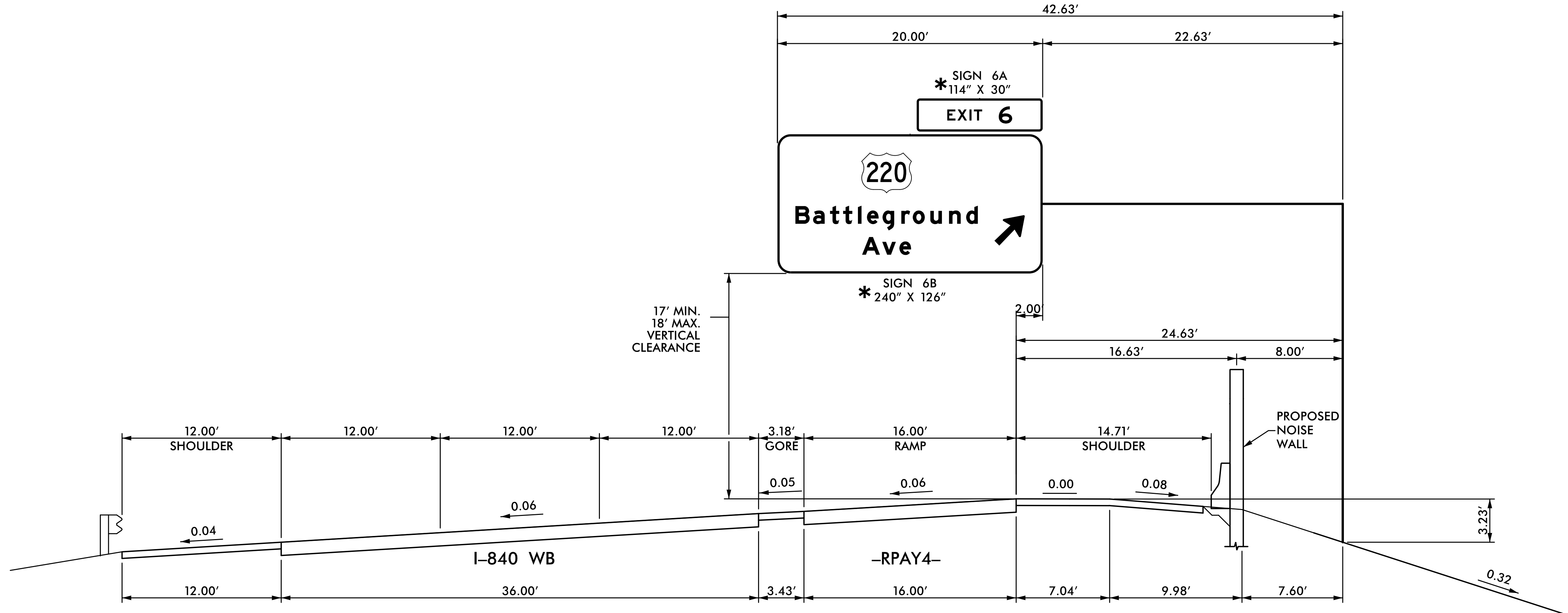
NOTES:

- SEE STANDARD 904-3(B)(3) FOR REQUIREMENTS OF NEW STRUCTURAL MEMBERS, MOUNTING HARDWARE FOR NEW SIGNS, SHOP DRAWINGS, BRACING AND ACCESSORY HARDWARE FOR ATTACHMENTS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE AND MAINTAIN 17' MINIMUM CLEARANCE.

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

**EXISTING  
OVERHEAD SIGN STRUCTURE 'DD'  
-Y4- STA. 26+50**

TIP NO. U-2524D	SHEET NO. SIGN-3D
APPROVED: <i>Charles A. Johnson, III</i> <small>681565847F54A6</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

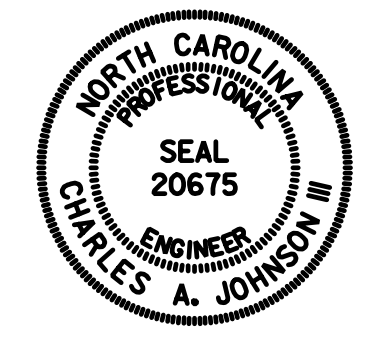


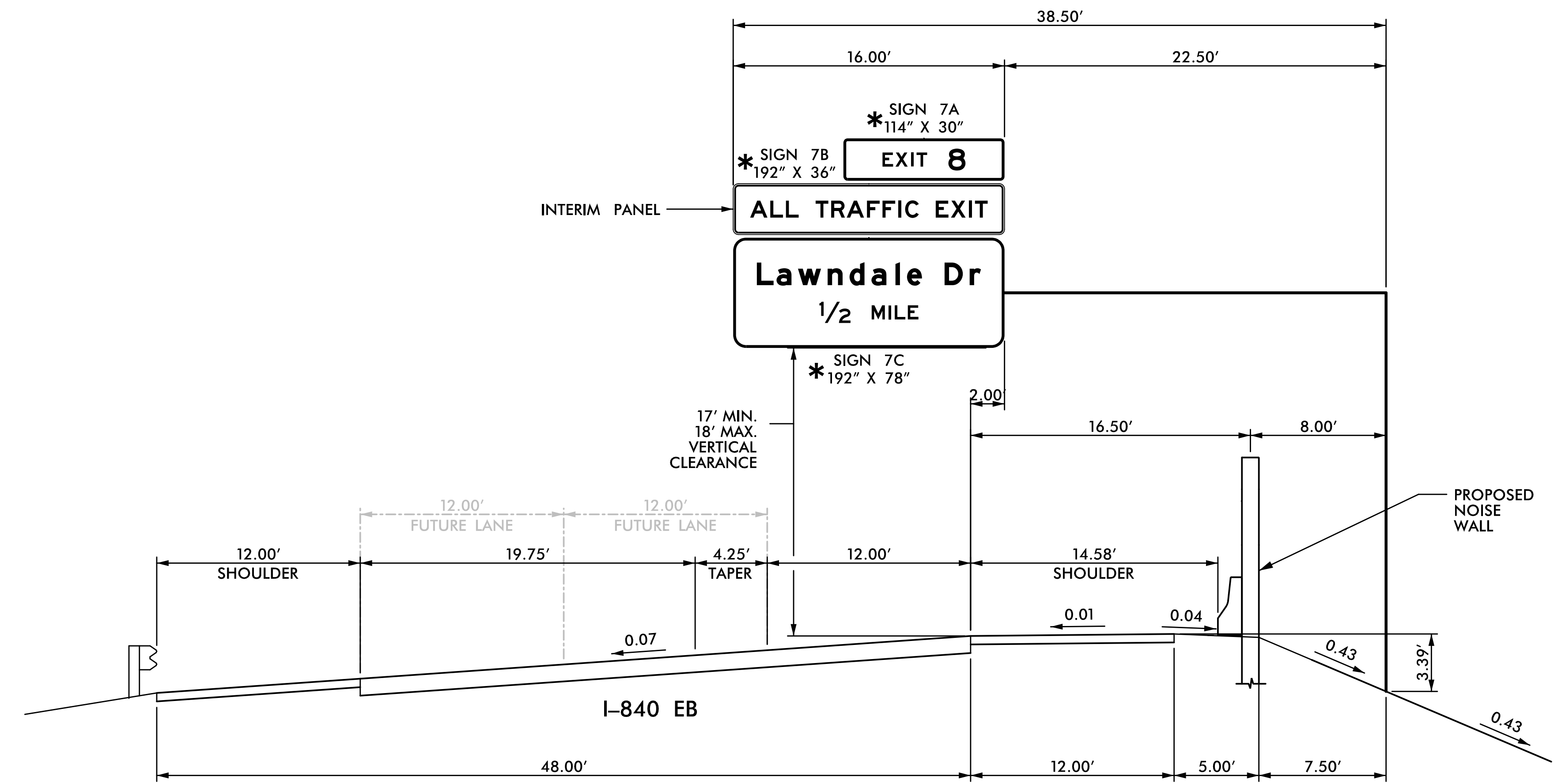
NOTES:

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 4 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. 425+50 LT**

TIP NO. U-2524D	SHEET NO. SIGN-3E
APPROVED: <i>Charles A. Johnson, III</i> <small>58A1955B47F54A6</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

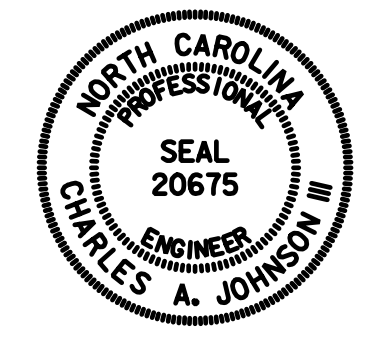


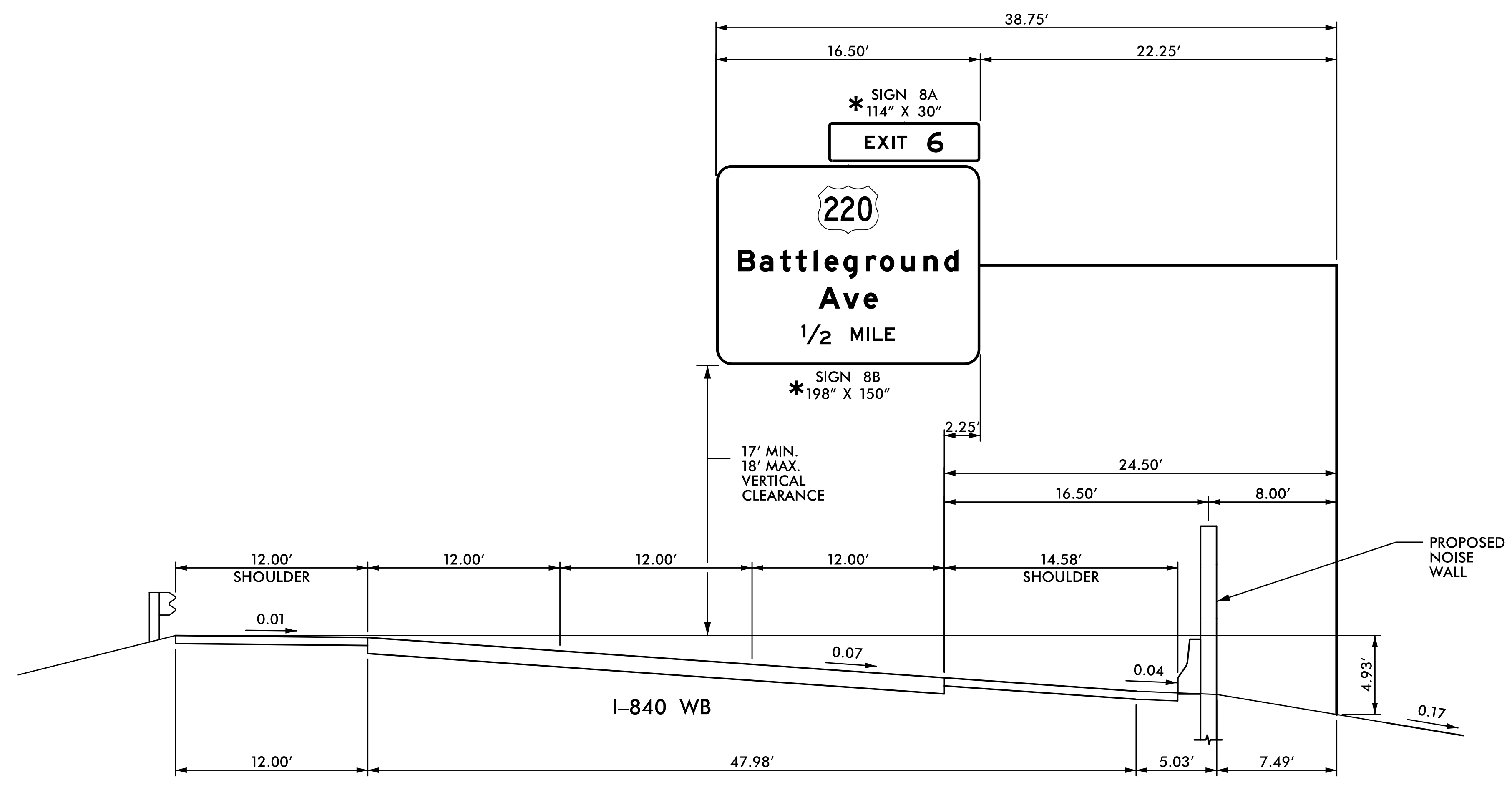
- NOTES:
- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
  - MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
  - FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS,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

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

**OVERHEAD SIGN STRUCTURE 'B'**  
**-L- STA. 457+50**

TIP NO. U-2524D	SHEET NO. SIGN-3F
APPROVED: <i>Charles A. Johnson, III</i> <small>5941565B47F54A6</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

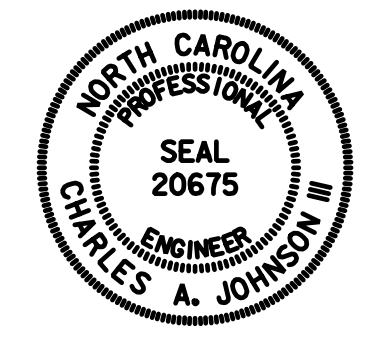


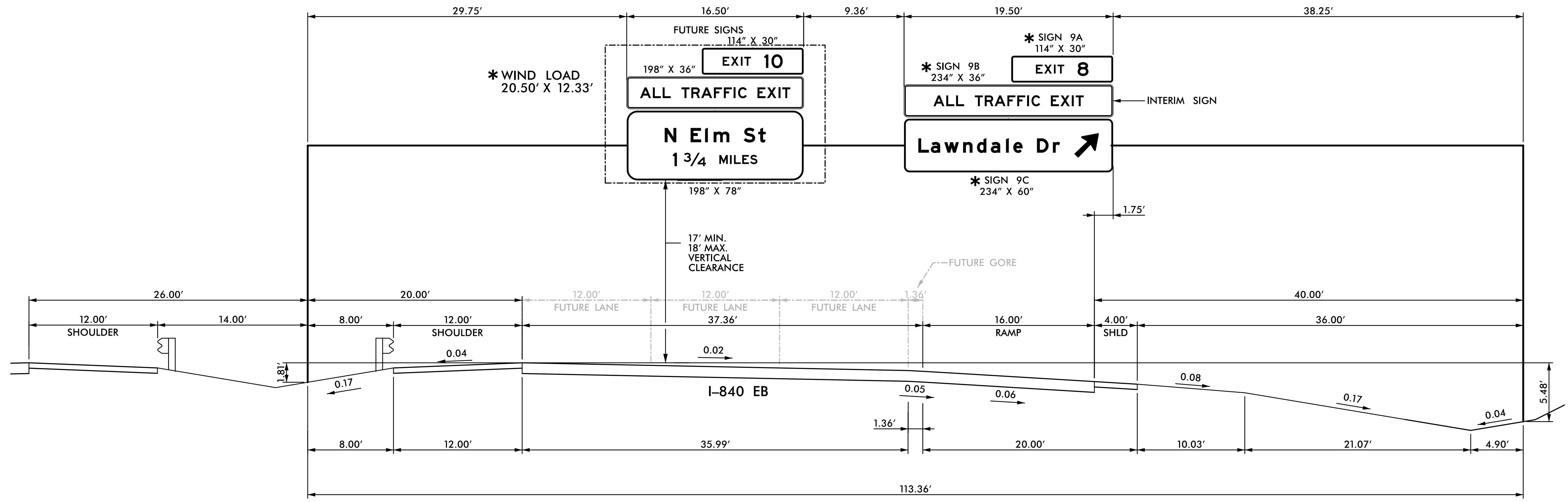
NOTES:

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- 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.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
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**OVERHEAD SIGN STRUCTURE 'C'**  
**-L- STA. 453+00 LT**

TIP NO. U-2524D	SHEET NO. SIGN-3G
APPROVED: <i>Charles A. Johnson, III</i> S&A1568847F54A6	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



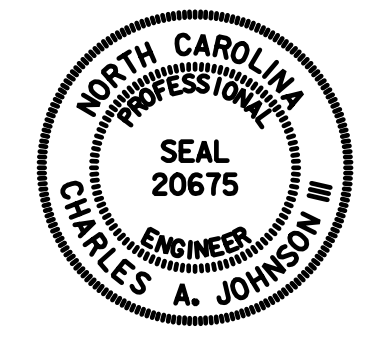
**NOTES:**

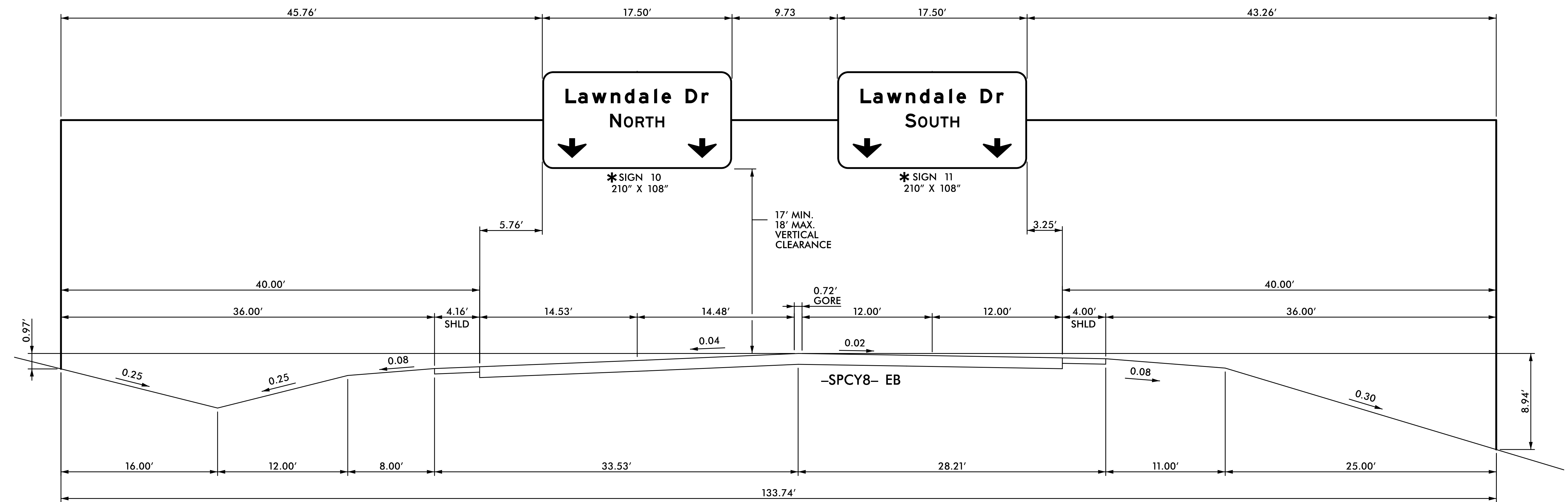
1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER 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 4 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.

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**OVERHEAD SIGN STRUCTURE 'D'**  
**-L- STA. 484+00**



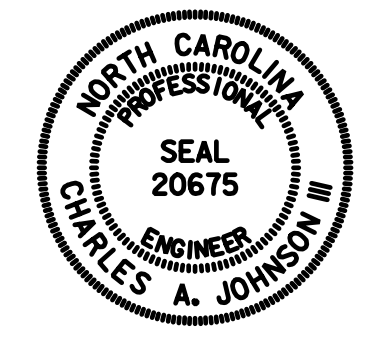
TIP NO. U-2524D	SHEET NO. SIGN-3H
APPROVED: <i>Charles A. Johnson, III</i> 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



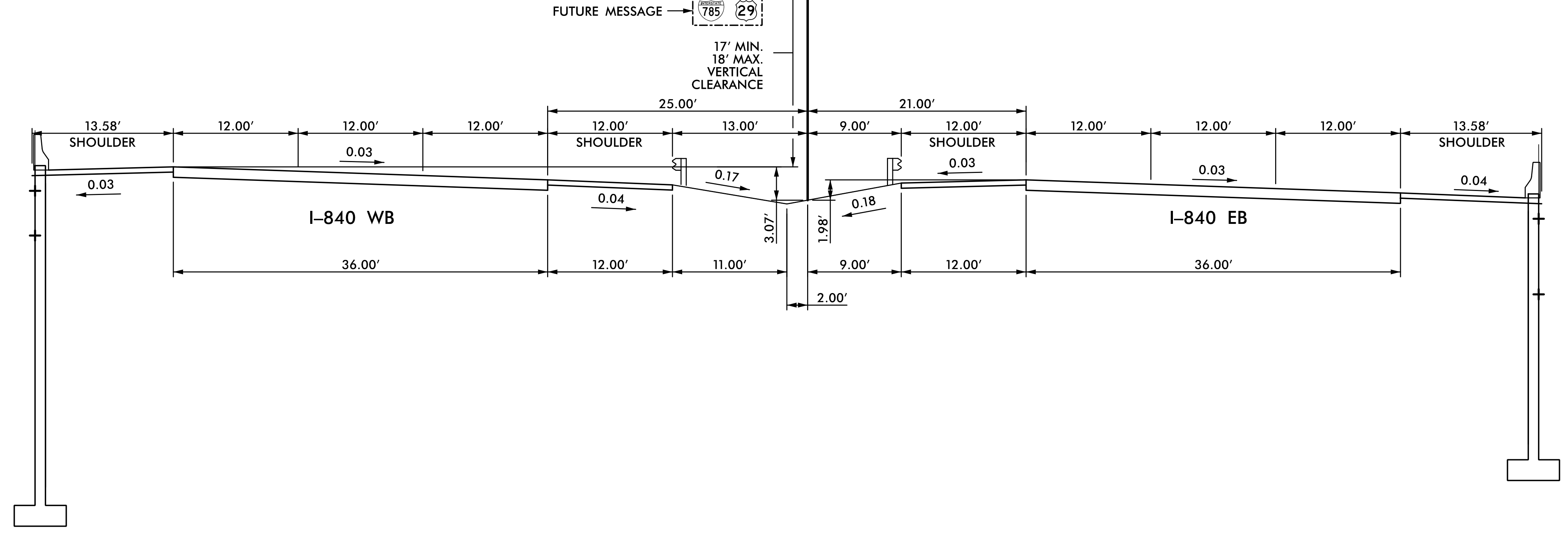
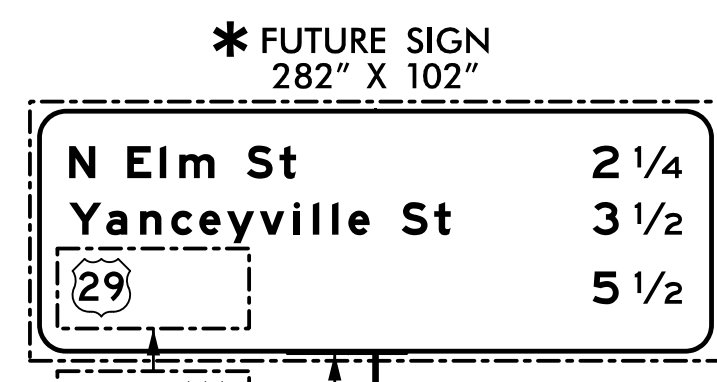
**NOTES:**

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

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TIP NO. U-2524D	SHEET NO. SIGN-31
APPROVED: <i>Charles A. Johnson, III</i> DATE: 5/4/2016	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SIGN MESSAGE FACING OPPOSING TRAFFIC  
\* FUTURE SIGN  
282" X 102"




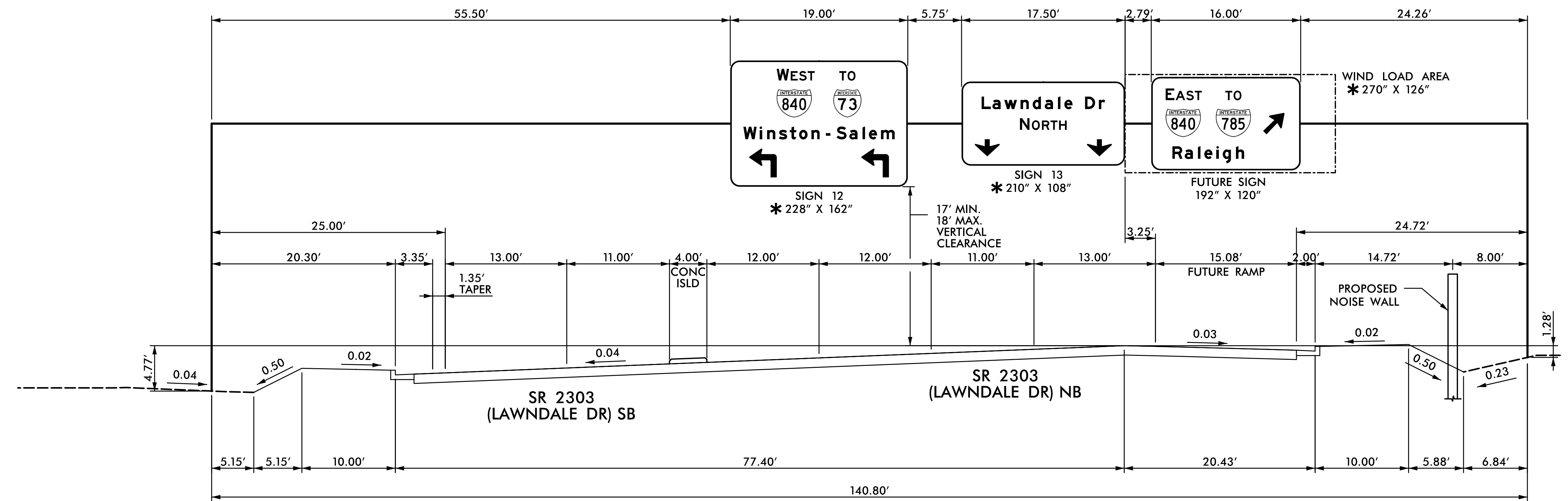
NOTES:

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- 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.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
- 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 'F'**  
**-L- STA. 492+00**

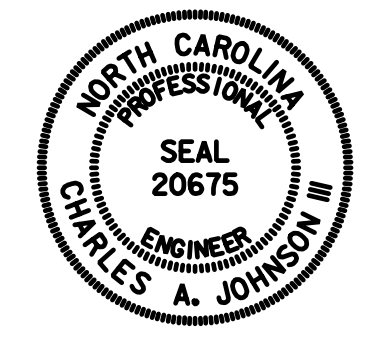
TIP NO. U-2524D	SHEET NO. SIGN-3J
APPROVED: <i>Charles A. Johnson, III</i> -SEA1568B47F5A68-	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

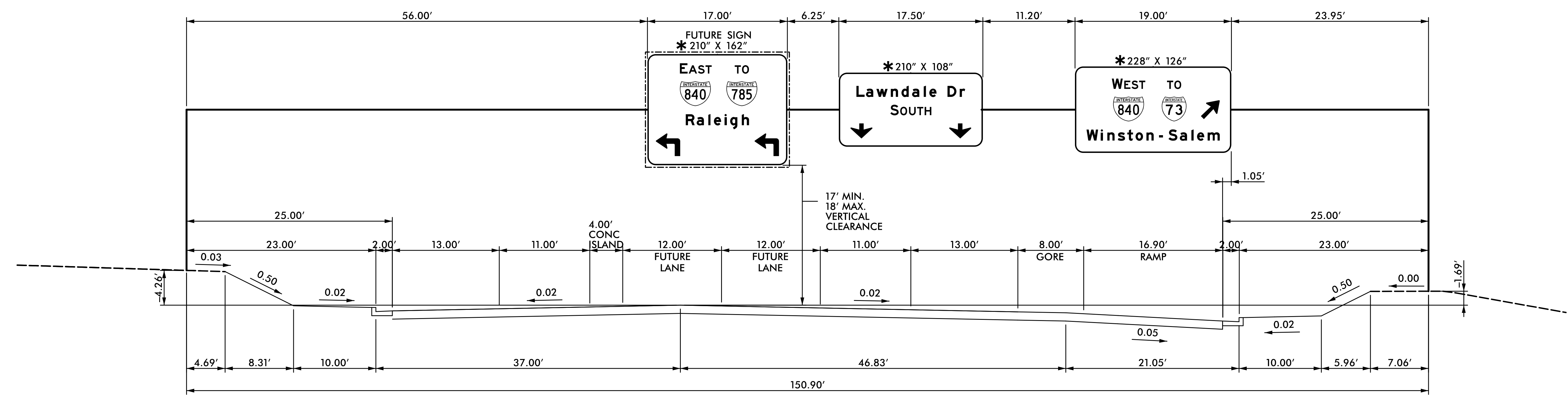


NOTES:

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- 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.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
- 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.

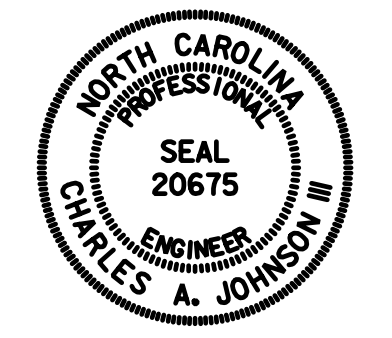
TIP NO. U-2524D	SHEET NO. SIGN-3K
APPROVED: <i>Charles A. Johnson, III</i> <small>58A1565B47F54A6...</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

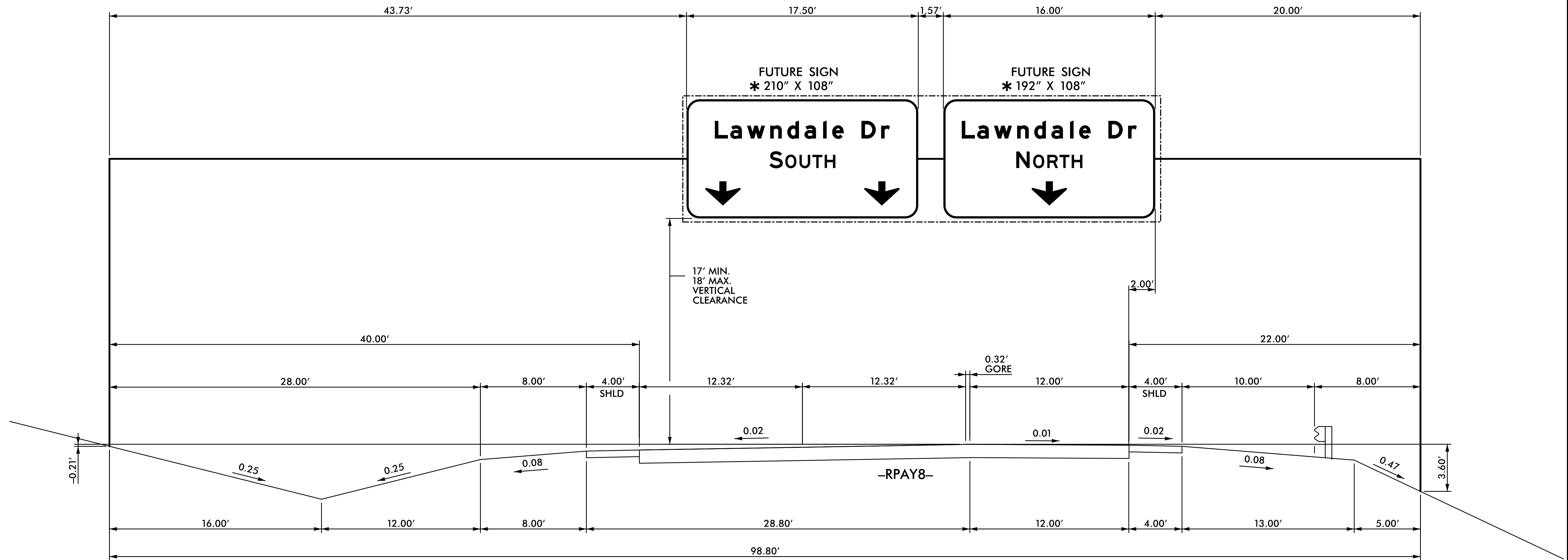


**NOTES:**

- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- 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.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
- SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
- 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.

TIP NO. U-2524D	SHEET NO. SIGN-3L
APPROVED: <i>Charles A. Johnson, III</i> 5/4/2016	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



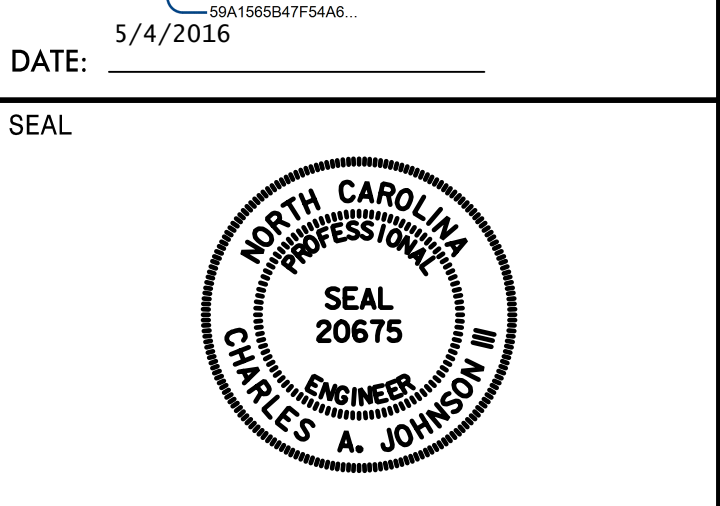
**NOTES:**

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 4 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 'I'**  
**-RPAY8- STA. 10+00**

APPROVED: Charles A. Johnson, III  
 DATE: 5/4/2016

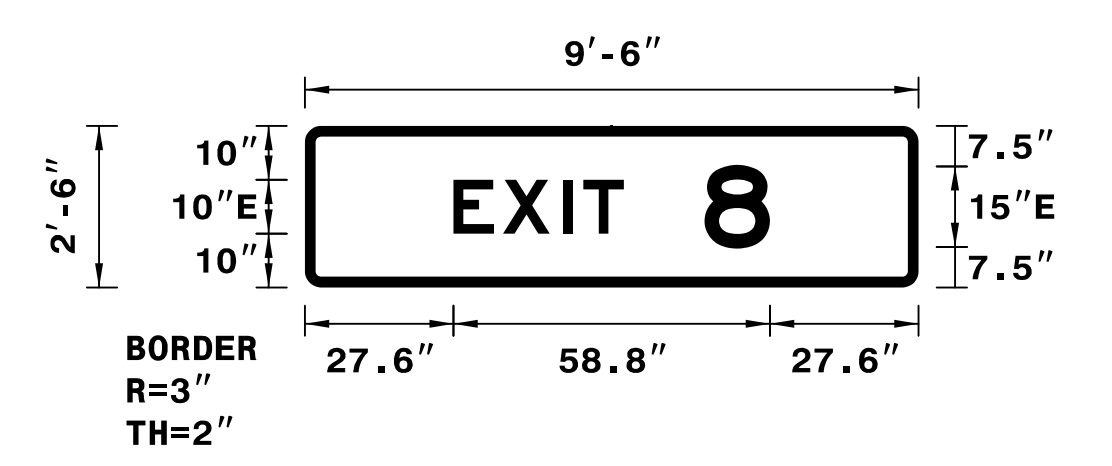


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIGN NUMBER: 1A,7A,9A  
 TYPE: B (OVHD)  
 QUANTITY: 3  
 SIGN WIDTH: 9'-6"  
 HEIGHT: 2'-6"  
 TOTAL AREA: 23.8 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 3"  
 NO. Z BARS: 2  
 LENGTH: 106.0

SYMBOL	X	Y	WID	HT

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



Spacing Factor is 1 unless specified otherwise  
 Spacing Factor for "EXIT" is 1.2

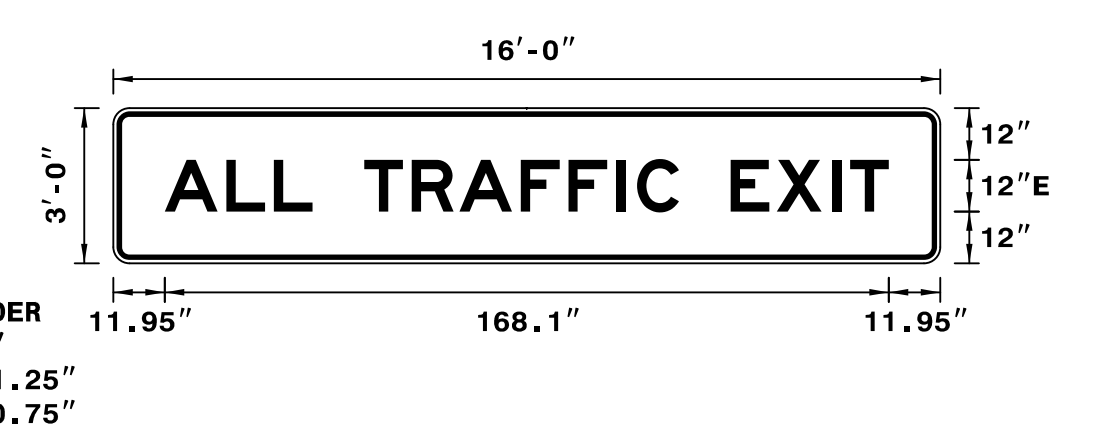
LETTER POSITIONS

Letter spacings are to start of next letter											Series/Size
											Text Length
27.6	9.2	11.1	3.8	7.5	59.2						E 2000
											31.6
											E 2000
74.2	12.2	27.6									12.2

SIGN NUMBER: 1B,7B  
 TYPE: A (OVHD)  
 QUANTITY: 2  
 SIGN WIDTH: 16'-0"  
 HEIGHT: 3'-0"  
 TOTAL AREA: 48.0 Sq.Ft.  
 BORDER TYPE: RECESSED  
 RECESS: 0.75"  
 WIDTH: 1.25"  
 RADII: 3"  
 NO. Z BARS: 2  
 LENGTH: 184.0

SYMBOL	X	Y	WID	HT

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



Spacing Factor is 1 unless specified otherwise

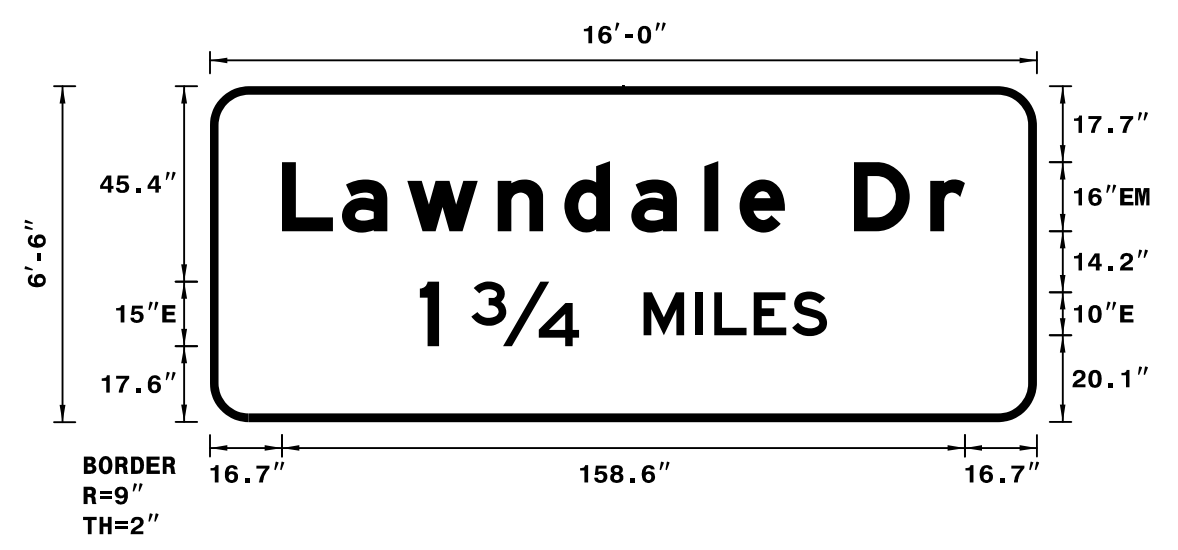
LETTER POSITIONS

Letter spacings are to start of next letter														Series/Size				
														Text Length				
11.9	14.3	11	9	12	11	11	14.3	11	11	4.9	9.7	12	10.7	12.8	4.2	9	11.9	E 2000
																		168.1

SIGN NUMBER: 1C  
 TYPE: A (OVHD)  
 QUANTITY: 1  
 SIGN WIDTH: 16'-0"  
 HEIGHT: 6'-6"  
 TOTAL AREA: 104.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 9"  
 NO. Z BARS: 2  
 LENGTH: 184.0

SYMBOL	X	Y	WID	HT

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



Spacing Factor is 1 unless specified otherwise

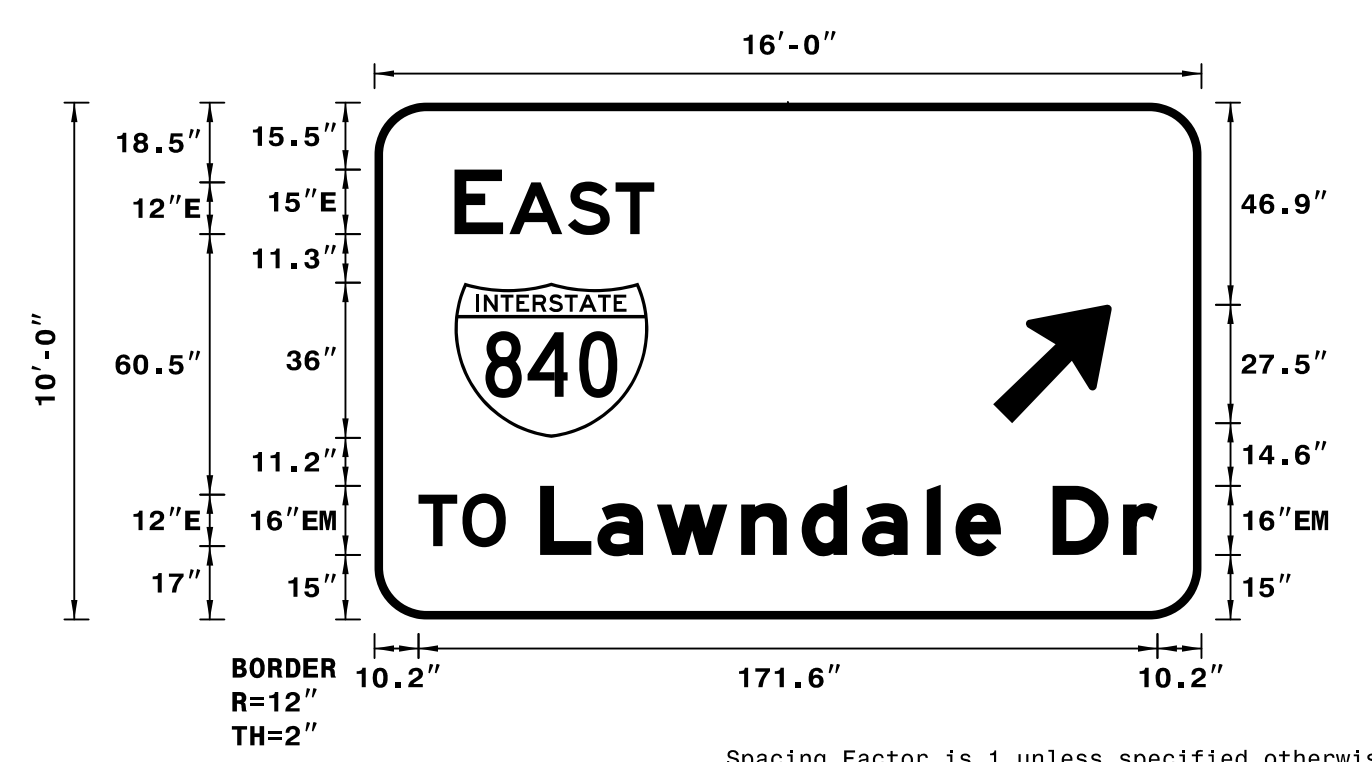
LETTER POSITIONS

Letter spacings are to start of next letter														Series/Size	
														Text Length	
16.7	13.9	15.2	21	15.5	15.5	17	8.2	10.6	16	17.8	8	16.7			EM 2000
															158.6
															E 2000
48.7	4.5	7.5	25	15	12	4.4	9.2	8.9	8.1	48.7					94.6

SIGN NUMBER: 2  
 TYPE: A (OVHD)  
 QUANTITY: 1  
 SIGN WIDTH: 16'-0"  
 HEIGHT: 10'-0"  
 TOTAL AREA: 160.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"  
 NO. Z BARS: 3  
 LENGTH: 184.0

SYMBOL	X	Y	WID	HT
Type A Arrow	143.6	45.6	22.3	35
M1_1	18.6	42.2	45	36

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016

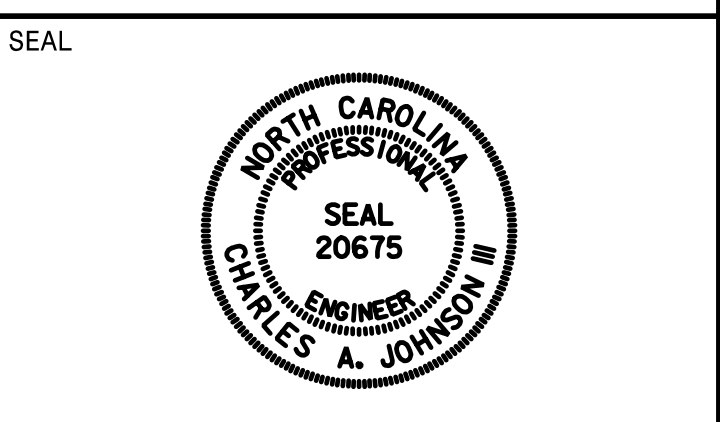


Spacing Factor is 1 unless specified otherwise  
 Spacing Factor for "TO Lawndale Dr" is 0.7

LETTER POSITIONS

Letter spacings are to start of next letter											Series/Size		
											Text Length		
18.6	11.3	1.5	13.6	11	9	127.1					E 2000		
											46.4		
											E 2000		
10.2	10.2	10.1	161.5								20.3		
											EM 2000		
38.5	13.3	13.8	19.6	14	14	15	6.7	10.6	12	16.3	8	10.2	143.3

APPROVED: *Charles A. Johnson, III*  
DocuSigned by:  
 Charles A. Johnson, III  
 8BA1565B47F5A6B...  
 DATE: 5/4/2016



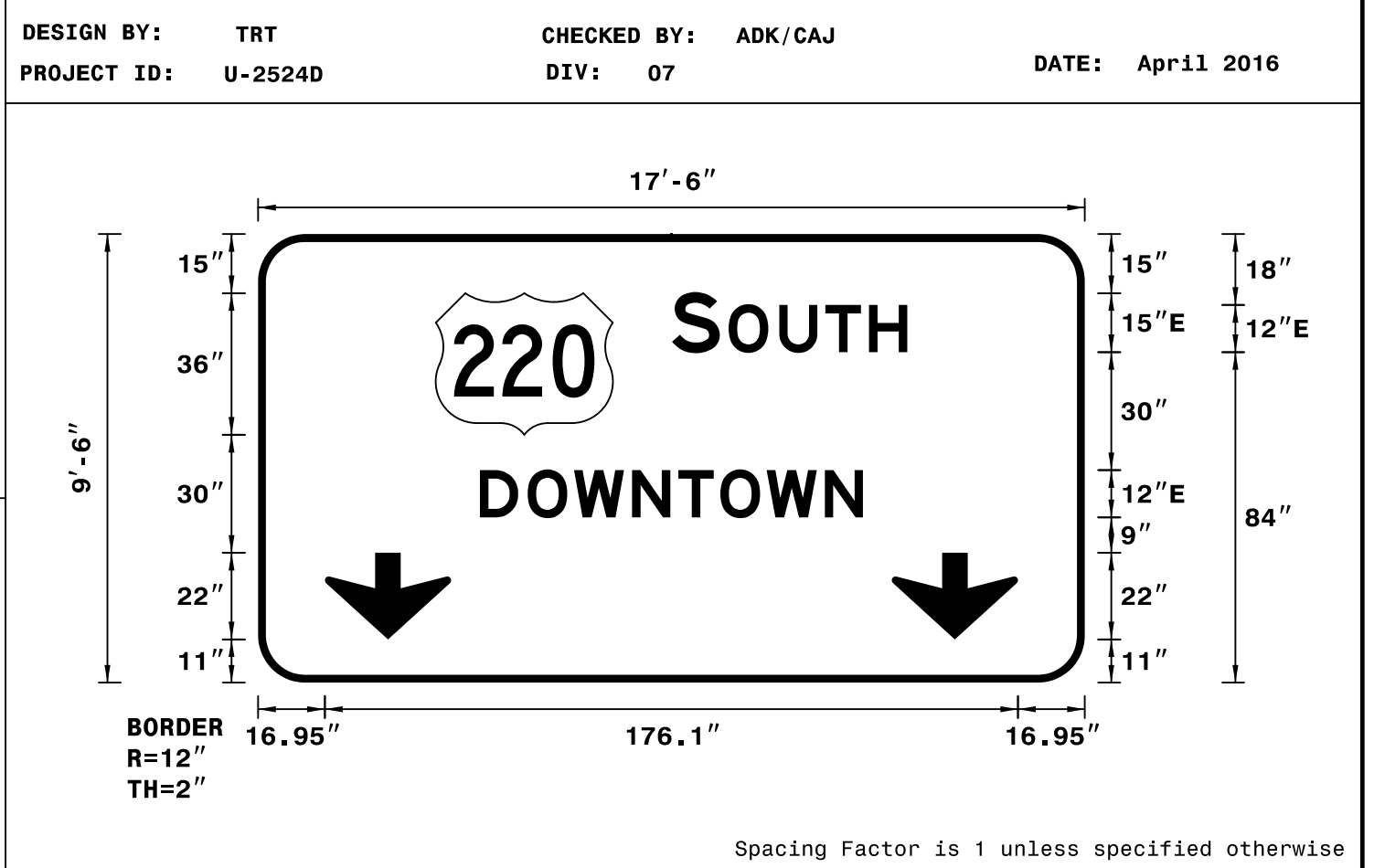
**DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED**

SIGN NUMBER: 3  
 TYPE: A (OVHD)  
 QUANTITY: 1  
 SIGN WIDTH: 17'-6"  
 HEIGHT: 9'-6"  
 TOTAL AREA: 166.3 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"  
 NO. Z BARS: 3  
 LENGTH: 202.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	45	65	45	36
Type C Arrow	17	11	32	22
Type C Arrow	161	11	32	22

MAT'L: 0.125" ALUMINUM



NOTES:  
 1. Legend, border and arrows 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

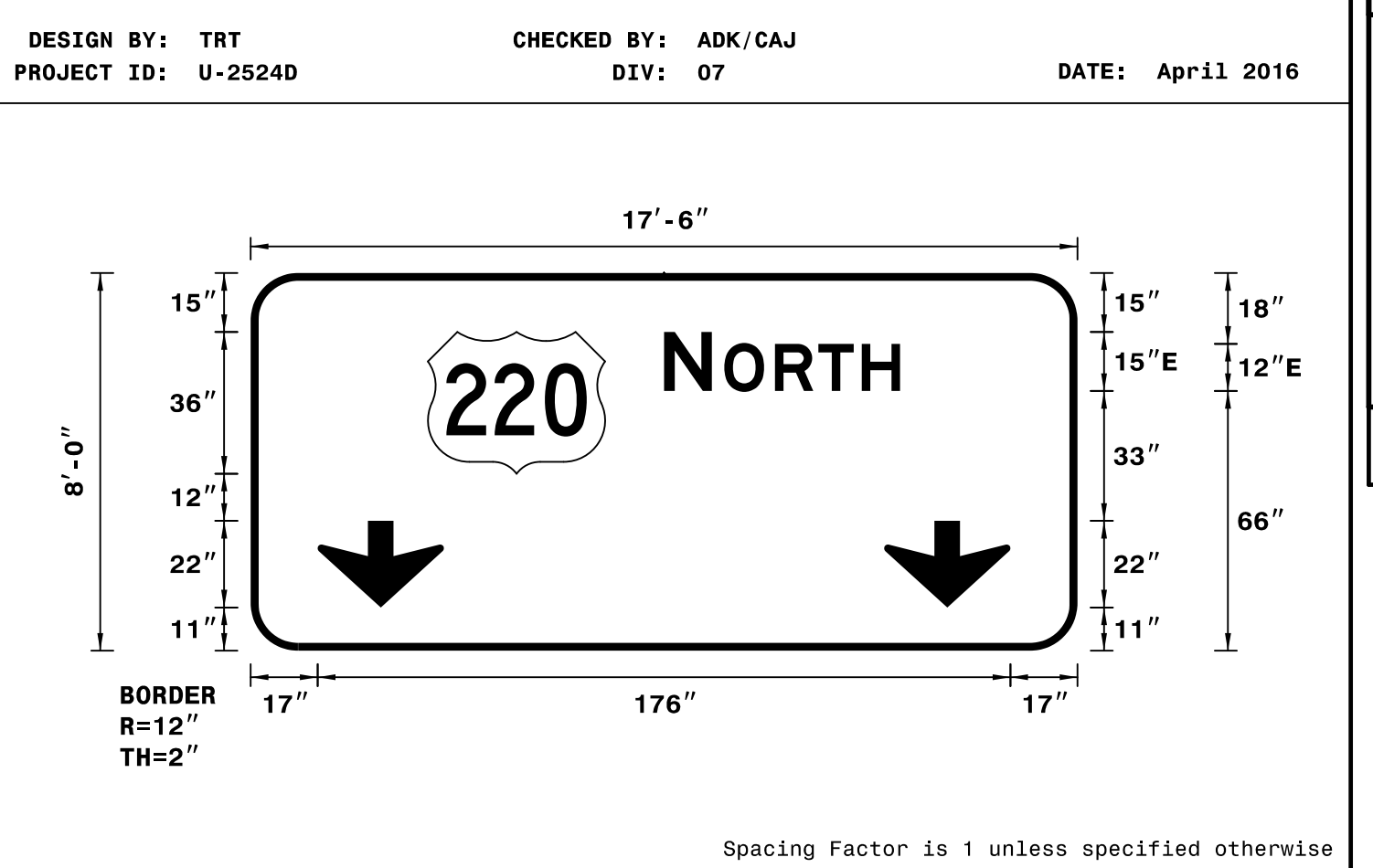
Series/Size	Text Length
E 2000	59.8
E 2000	97.3

SIGN NUMBER: 4  
 TYPE: A (OVHD)  
 QUANTITY: 1  
 SIGN WIDTH: 17'-6"  
 HEIGHT: 8'-0"  
 TOTAL AREA: 140.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"  
 NO. Z BARS: 3  
 LENGTH: 202.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	45	46	45	36
Type C Arrow	17	11	32	22
Type C Arrow	161	11	32	22

MAT'L: 0.125" ALUMINUM



NOTES:  
 1. Legend, border and arrows 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

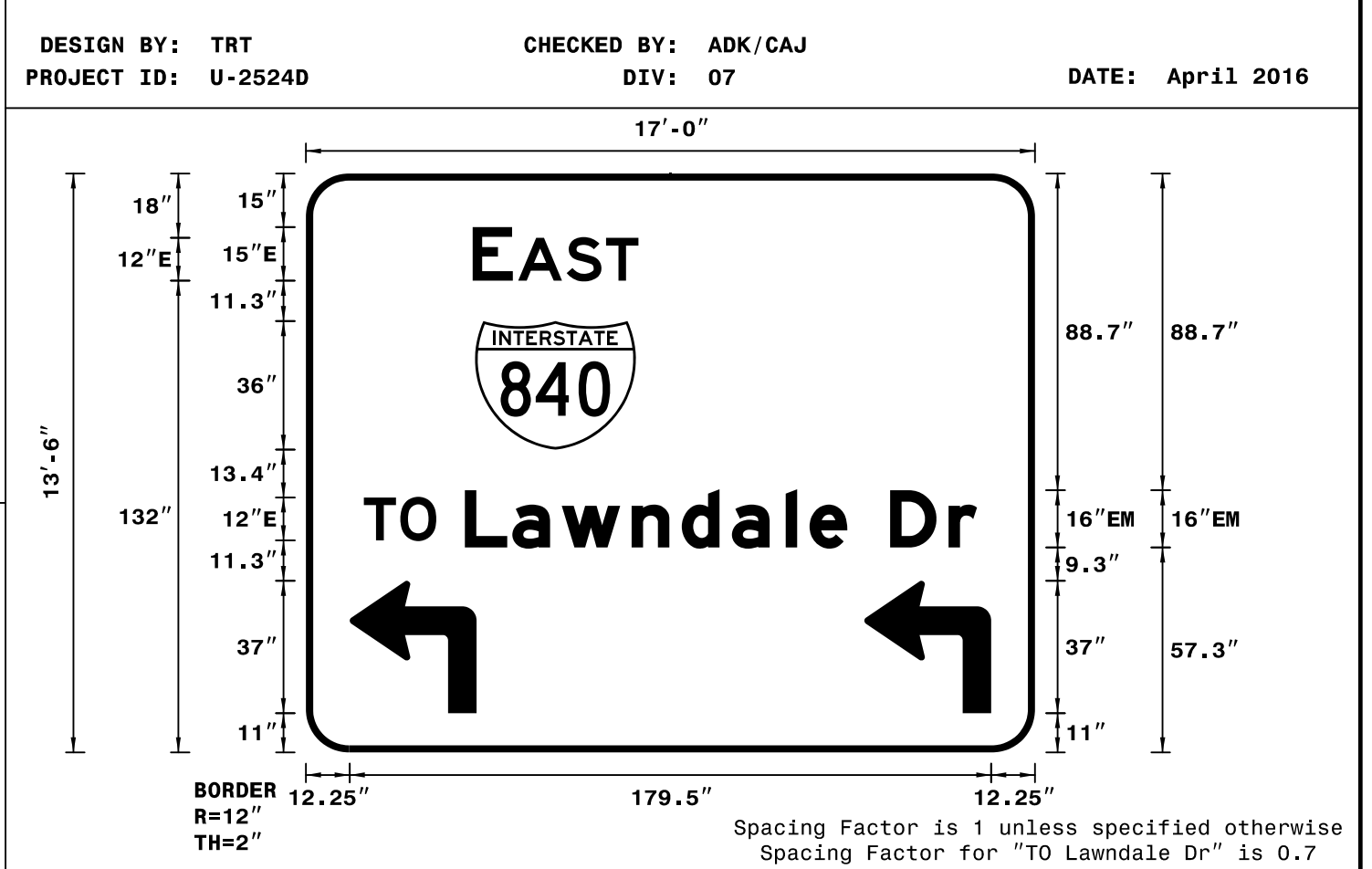
Series/Size	Text Length
E 2000	59.9

SIGN NUMBER: 5  
 TYPE: A (OVHD)  
 QUANTITY: 1  
 SIGN WIDTH: 17'-0"  
 HEIGHT: 13'-6"  
 TOTAL AREA: 229.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"  
 NO. Z BARS: 4  
 LENGTH: 196.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	47.3	84.7	45	36
Type A Adv Lt	12.3	11	35.5	37
Type A Adv Lt	156.3	11	35.5	37

MAT'L: 0.125" ALUMINUM



NOTES:  
 1. Legend, border and arrows 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

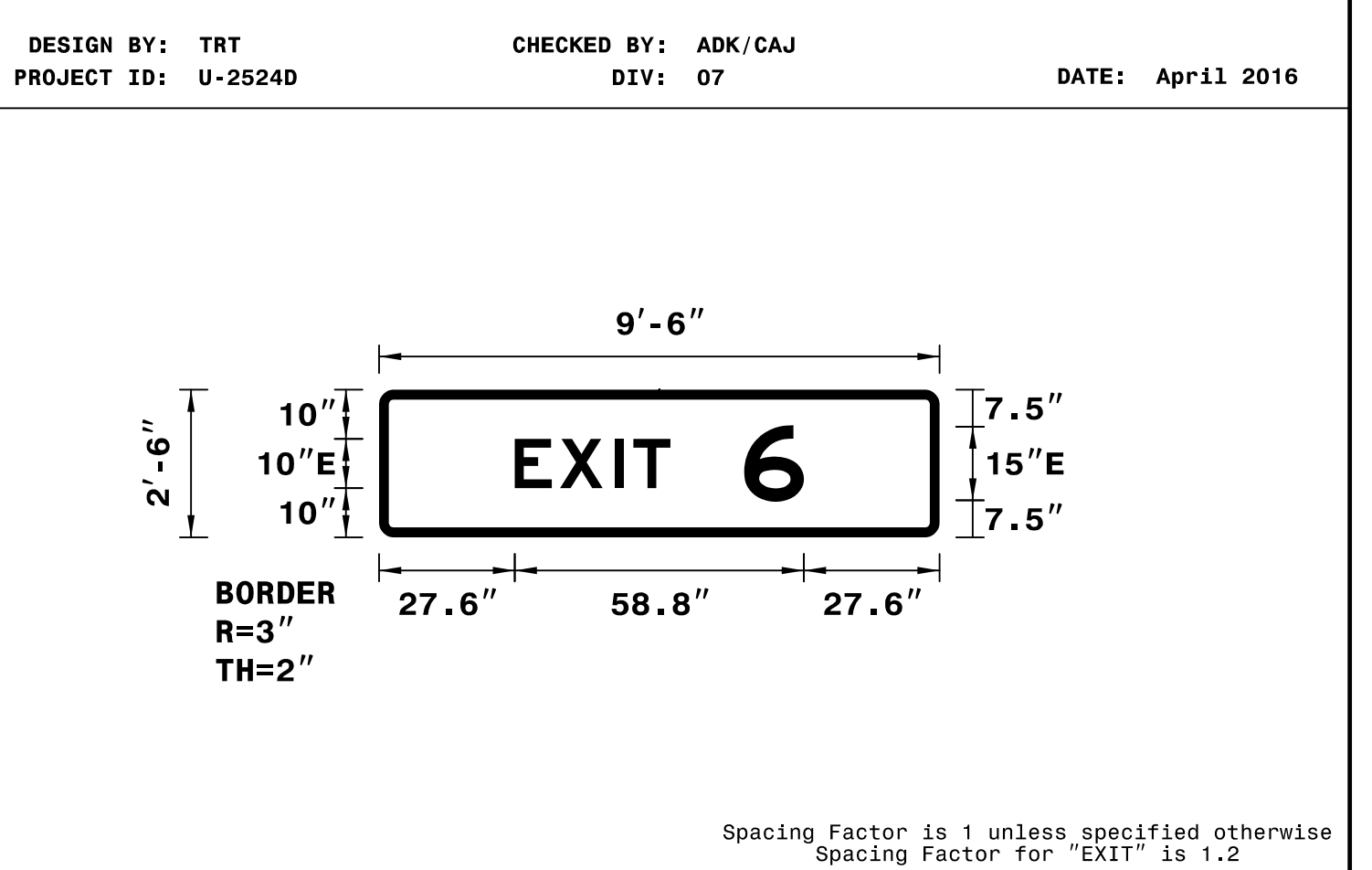
Series/Size	Text Length
E 2000	46.4
E 2000	20.3
EM 2000	143.3

SIGN NUMBER: 6A,8A  
 TYPE: B (OVHD)  
 QUANTITY: 2  
 SIGN WIDTH: 9'-6"  
 HEIGHT: 2'-6"  
 TOTAL AREA: 23.8 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 3"  
 NO. Z BARS: 2  
 LENGTH: 106.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
--------	---	---	-----	----

MAT'L: 0.125" ALUMINUM



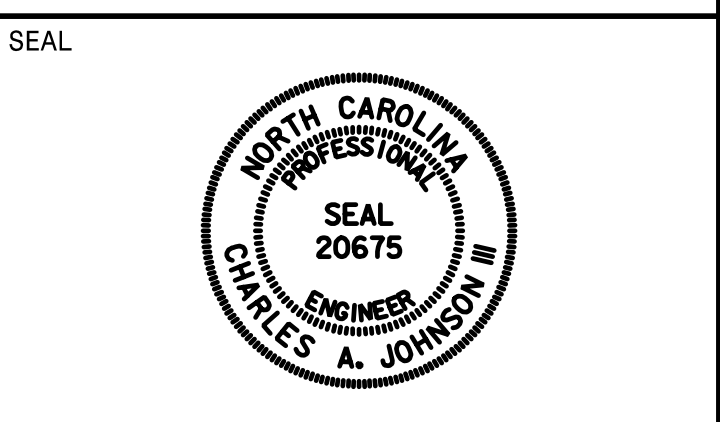
NOTES:  
 1. Legend and border shall be direct applied Grade A reflective sheeting.  
 2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	31.6
E 2000	12.2

APPROVED: *Charles A. Johnson, III*  
5/15/2016 11:54:46 AM  
 DATE: 5/4/2016



**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

SIGN NUMBER: 6B      BACKG COLOR: Green  
 TYPE: A (OVHD)      COPY COLOR: White  
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_4	76.3	73	45	36
Type A Arrow	196.3	25.3	22.3	35

SIGN WIDTH: 20'-0"  
 HEIGHT: 10'-6"  
 TOTAL AREA: 210.0 Sq.Ft.

BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"

MAT'L: 0.125" ALUMINUM

NO. Z BARS: 3  
 LENGTH: 232.0

DESIGN BY: TRT      CHECKED BY: ADK/CAJ  
 PROJECT ID: U-2524D      DIV: 07      DATE: April 2016



NOTES:  
 1. Legend and border shall be direct applied Grade A reflective sheeting.  
 2. Arrows and 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

Letter spacings are to start of next letter													Series/Size	
													Text Length	
16.2	16	15.4	11.8	13.4	8.2	14.1	17	10.4	15.8	17	15.5	10.6	58.7	EM 2000
													165.1	
A v e													EM 2000	
76.6	18.2	15.5	10.6	119.1									44.3	

SIGN NUMBER: 7C      BACKG COLOR: Green  
 TYPE: A (OVHD)      COPY COLOR: White  
 QUANTITY: 1

SYMBOL	X	Y	WID	HT

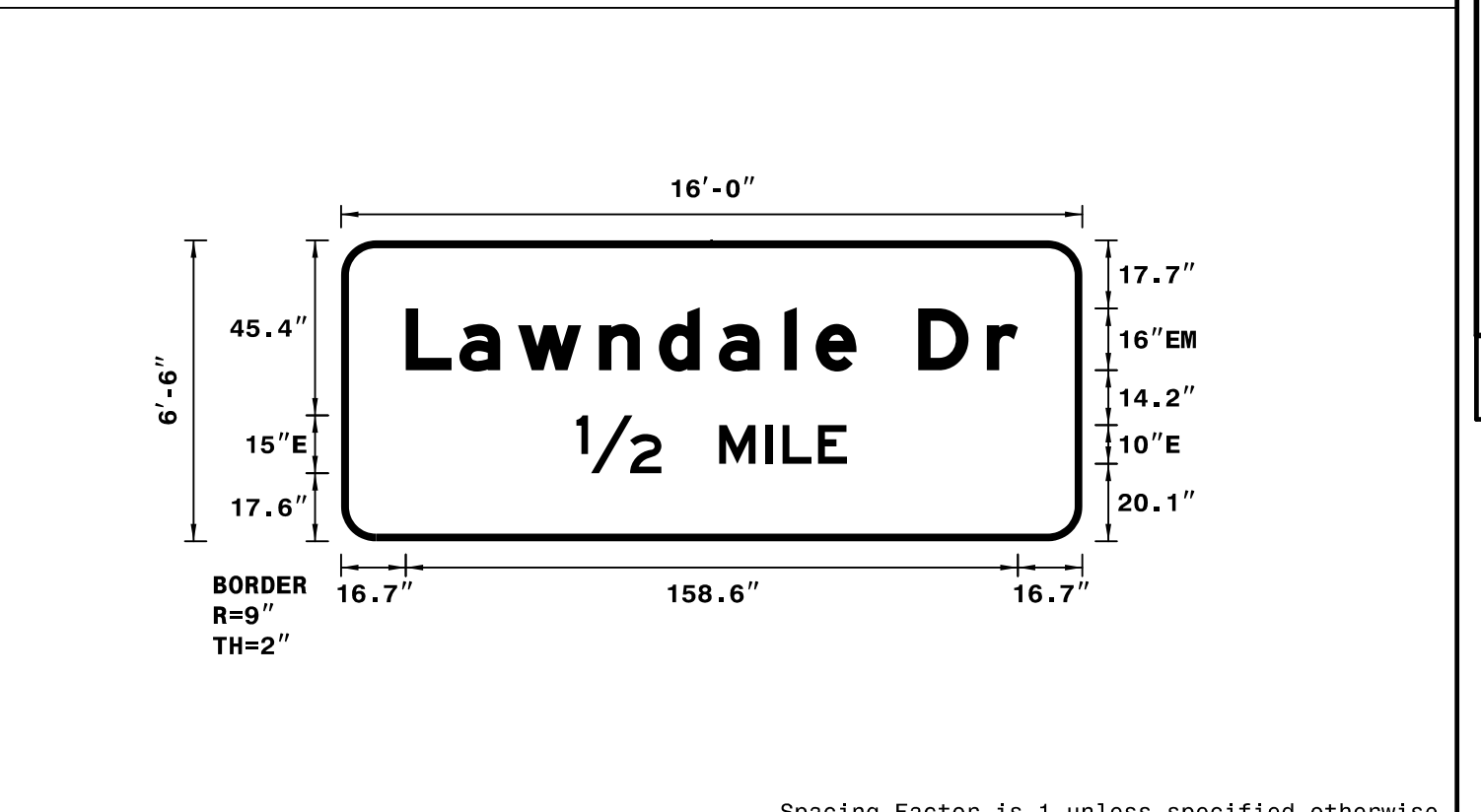
SIGN WIDTH: 16'-0"  
 HEIGHT: 6'-6"  
 TOTAL AREA: 104.0 Sq.Ft.

BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 9"

MAT'L: 0.125" ALUMINUM

NO. Z BARS: 2  
 LENGTH: 184.0

DESIGN BY: TRT      CHECKED BY: ADK/CAJ  
 PROJECT ID: U-2524D      DIV: 07      DATE: April 2016



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

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter													Series/Size
													Text Length
16.7	13.9	15.2	21	15.5	15.5	17	8.2	10.6	16	17.8	8	16.7	EM 2000
													158.6
1/2 M I L E													E 2000
61	22	15	12	4.4	9.2	7.5	61						70.1

SIGN NUMBER: 8B      BACKG COLOR: Green  
 TYPE: A (OVHD)      COPY COLOR: White  
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
M1_4	76.5	98.4	45	36

SIGN WIDTH: 16'-6"  
 HEIGHT: 12'-6"  
 TOTAL AREA: 206.3 Sq.Ft.

BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"

MAT'L: 0.125" ALUMINUM

NO. Z BARS: 4  
 LENGTH: 190.0

DESIGN BY: TRT      CHECKED BY: ADK/CAJ  
 PROJECT ID: U-2524D      DIV: 07      DATE: April 2016



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

Letter spacings are to start of next letter													Series/Size	
													Text Length	
16.4	16	15.4	11.8	13.4	8.2	14.1	17	10.4	15.8	17	15.5	10.6	16.4	EM 2000
													165.1	
A v e													EM 2000	
76.8	18.2	15.5	10.6	76.8									44.3	
1/2 M I L E													E 2000	
64	22	15	12	4.4	9.2	7.5	64						70.1	

SIGN NUMBER: 9B      BACKG COLOR: Yellow  
 TYPE: A (OVHD)      COPY COLOR: Black  
 QUANTITY: 1

SYMBOL	X	Y	WID	HT

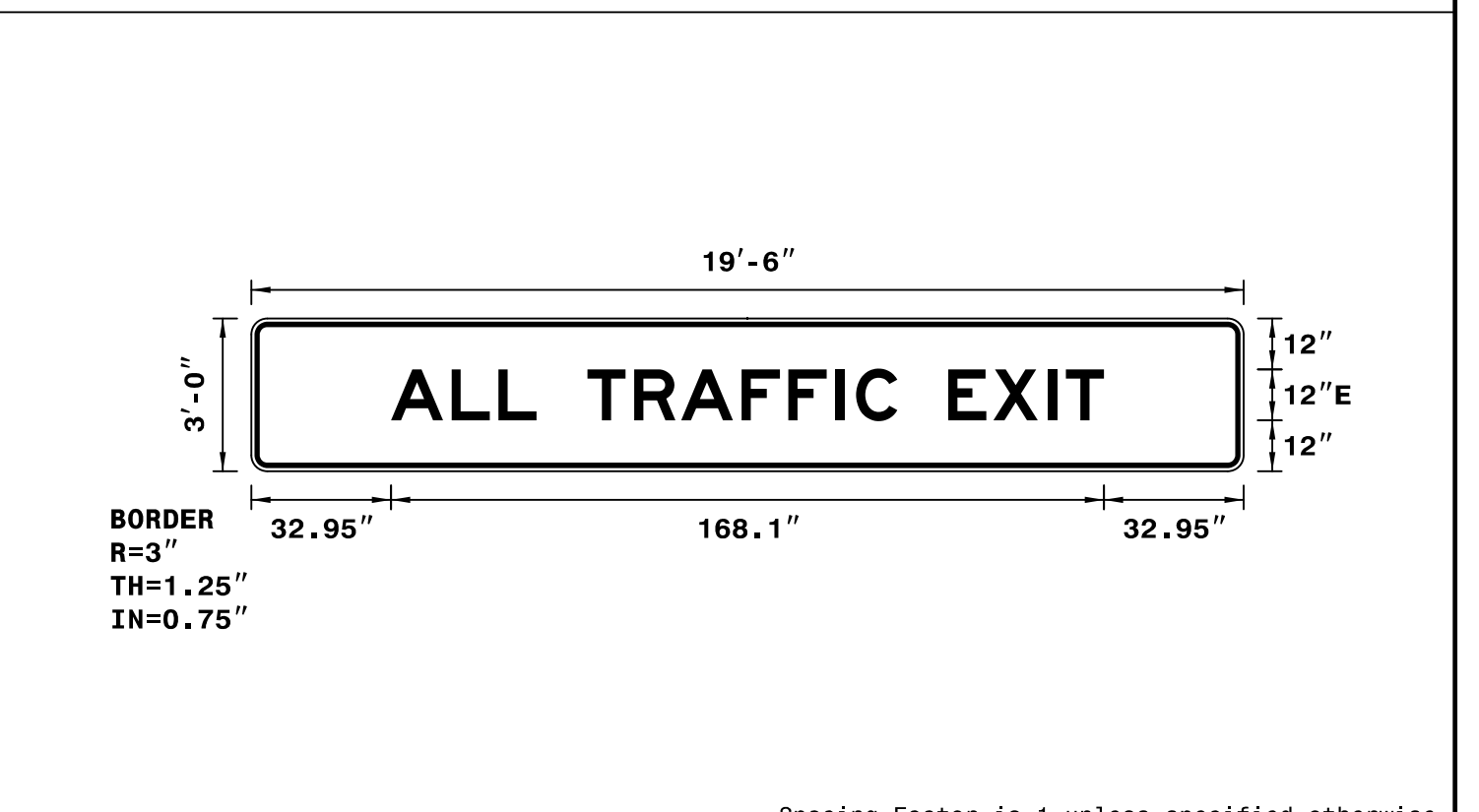
SIGN WIDTH: 19'-6"  
 HEIGHT: 3'-0"  
 TOTAL AREA: 58.5 Sq.Ft.

BORDER TYPE: RECESSED  
 RECESS: 0.75"  
 WIDTH: 1.25"  
 RADII: 3"

MAT'L: 0.125" ALUMINUM

NO. Z BARS: 2  
 LENGTH: 226.0

DESIGN BY: TRT      CHECKED BY: ADK/CAJ  
 PROJECT ID: U-2524D      DIV: 07      DATE: April 2016



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

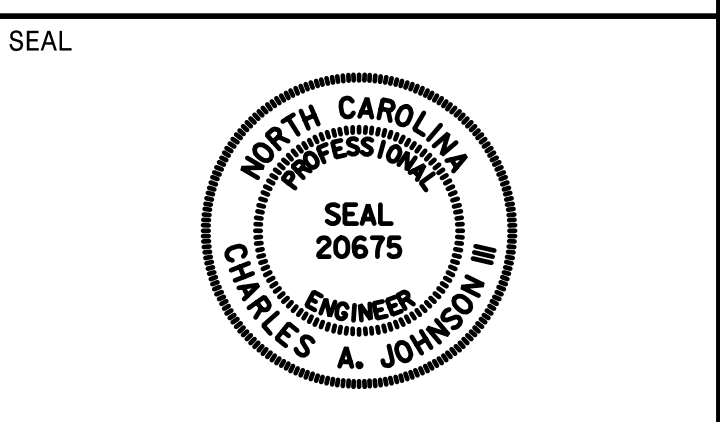
LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter													Series/Size					
													Text Length					
32.9	14.3	11	9	12	11	11	14.3	11	11	4.9	9.7	12	10.7	12.8	4.2	9	32.9	E 2000
																	168.1	
A L L T R A F F I C E X I T																	E 2000	



APPROVED: Charles A. Johnson, III  
 DATE: 5/4/2016

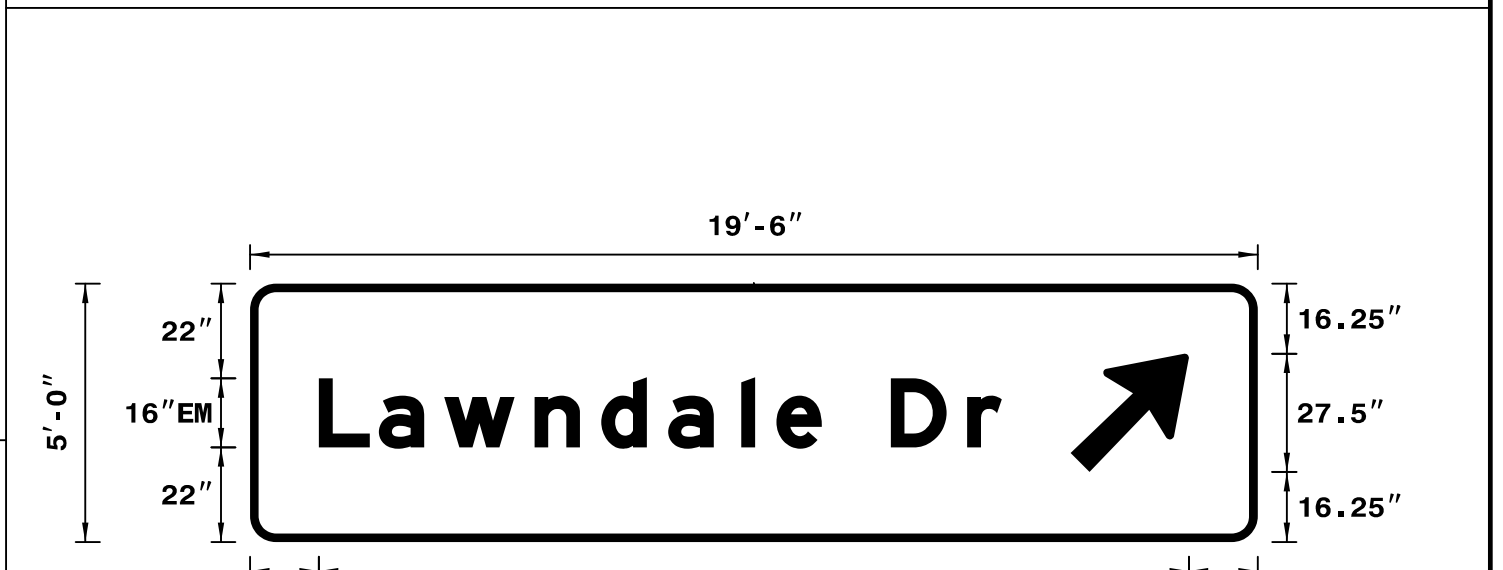


DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIGN NUMBER: 9C  
 TYPE: A (OVHD)  
 QUANTITY: 1  
 SIGN WIDTH: 19'-6"  
 HEIGHT: 5'-0"  
 TOTAL AREA: 97.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 6"  
 NO. Z BARS: 2  
 LENGTH: 226.0

SYMBOL	X	Y	WID	HT
Type A Arrow	190.5	16.3	22.3	35

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



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

LETTER POSITIONS

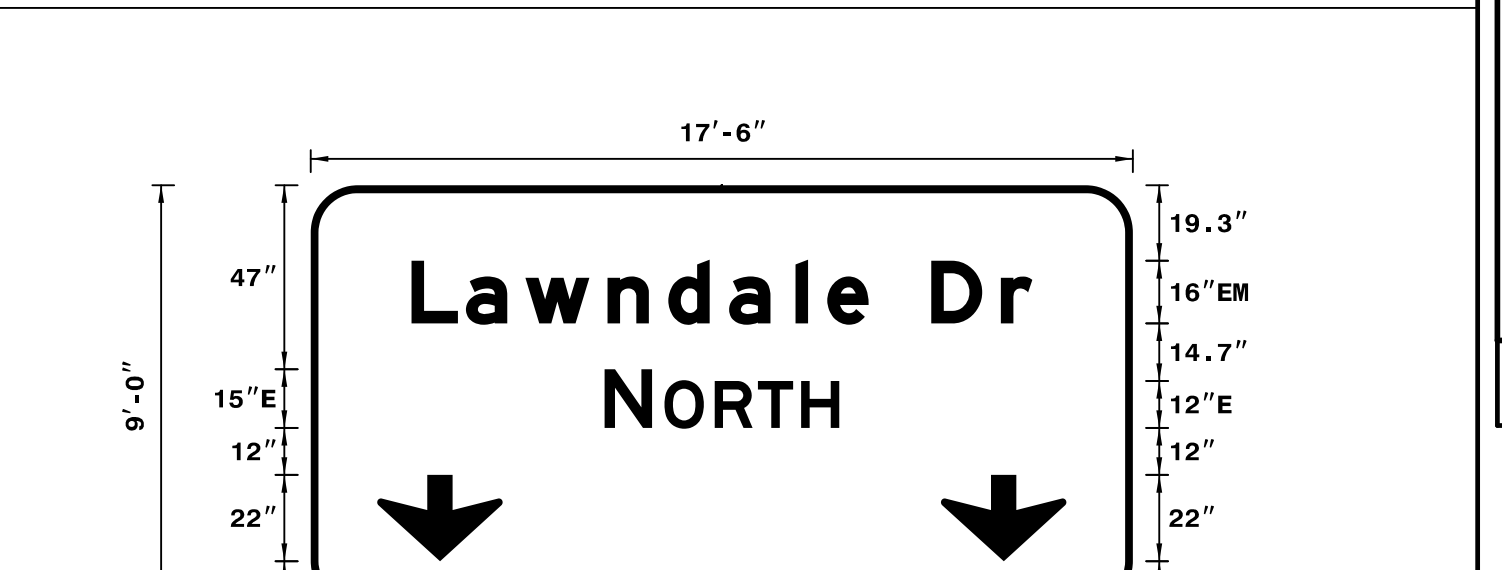
Letter spacings are to start of next letter													Series/Size
													Text Length
L	a	w	n	d	a	l	e	D	r				EM 2000
16	13.9	15.2	21	15.5	15.5	17	8.2	10.6	16	17.8	8	59.5	158.6
													E 2000
													59.9

Spacing Factor is 1 unless specified otherwise

SIGN NUMBER: 10,13  
 TYPE: A (OVHD)  
 QUANTITY: 2  
 SIGN WIDTH: 17'-6"  
 HEIGHT: 9'-0"  
 TOTAL AREA: 157.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"  
 NO. Z BARS: 3  
 LENGTH: 202.0

SYMBOL	X	Y	WID	HT
Type C Arrow	17	12	32	22
Type C Arrow	161	12	32	22

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



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

LETTER POSITIONS

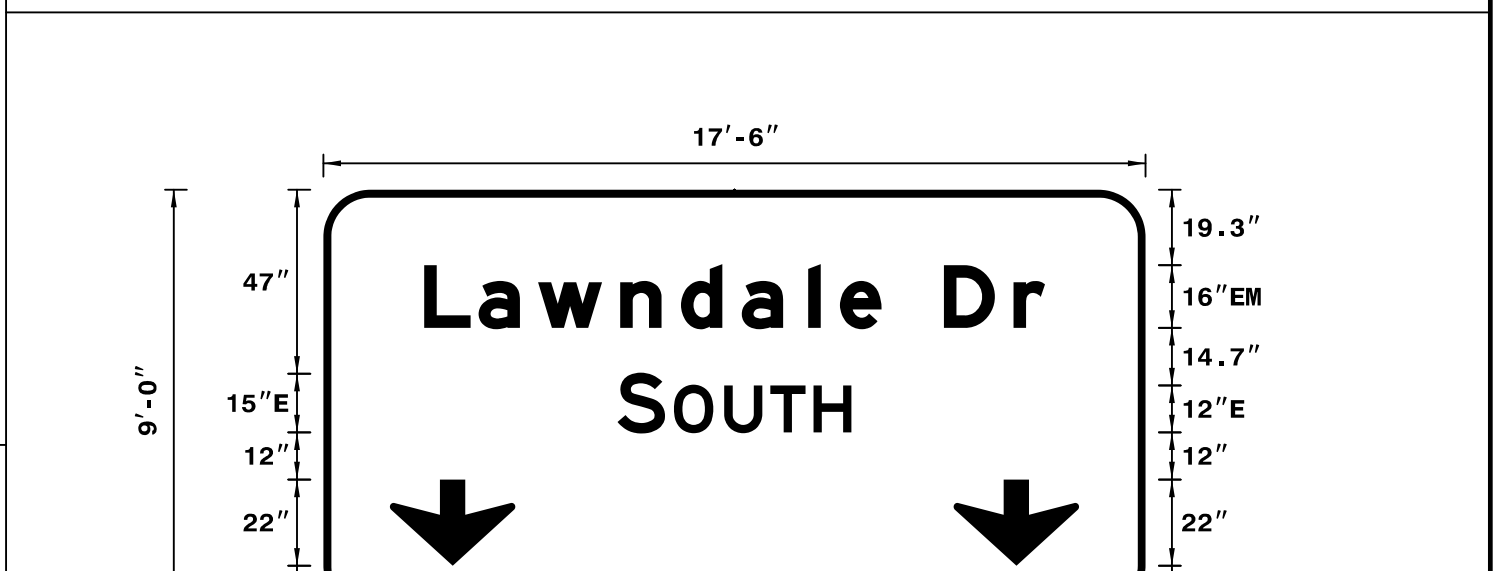
Letter spacings are to start of next letter													Series/Size
													Text Length
L	a	w	n	d	a	l	e	D	r				EM 2000
25.7	13.9	15.2	21	15.5	15.5	17	8.2	10.6	16	17.8	8	25.7	158.6
													E 2000
													59.9

Spacing Factor is 1 unless specified otherwise

SIGN NUMBER: 11,14  
 TYPE: A (OVHD)  
 QUANTITY: 2  
 SIGN WIDTH: 17'-6"  
 HEIGHT: 9'-0"  
 TOTAL AREA: 157.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"  
 NO. Z BARS: 3  
 LENGTH: 202.0

SYMBOL	X	Y	WID	HT
Type C Arrow	17	12	32	22
Type C Arrow	161	12	32	22

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



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

LETTER POSITIONS

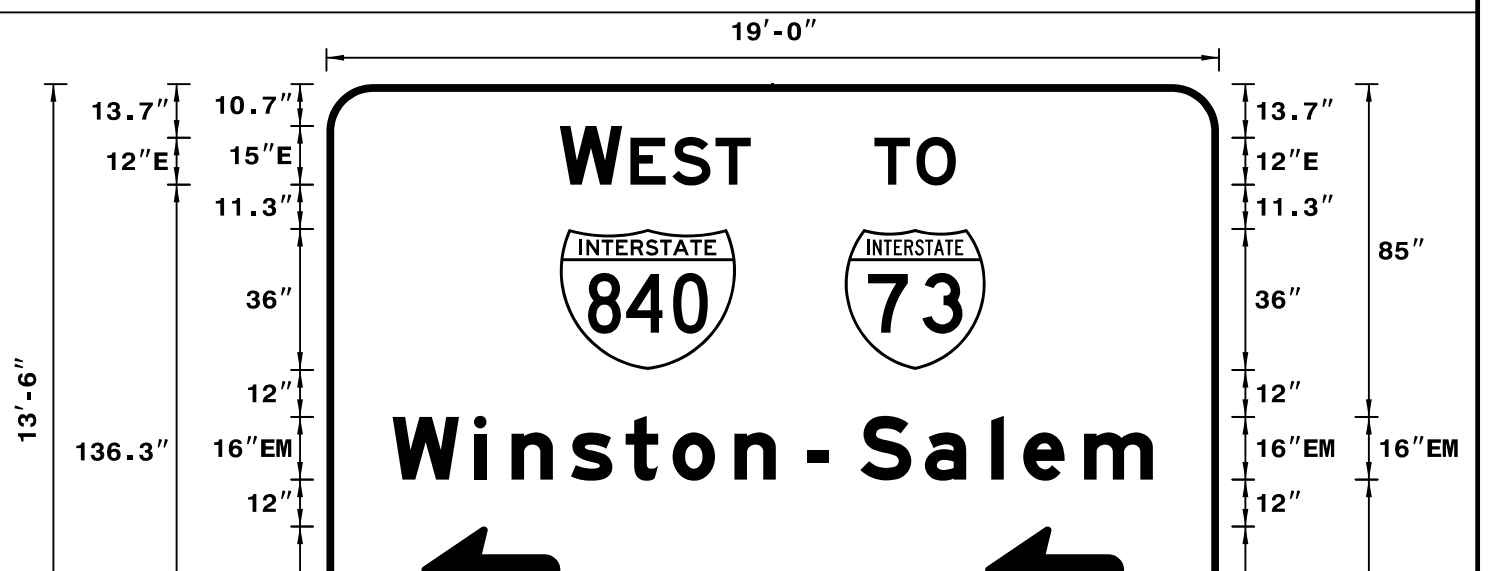
Letter spacings are to start of next letter													Series/Size
													Text Length
L	a	w	n	d	a	l	e	D	r				EM 2000
25.7	13.9	15.2	21	15.5	15.5	17	8.2	10.6	16	17.8	8	25.7	158.6
													E 2000
													59.8

Spacing Factor is 1 unless specified otherwise

SIGN NUMBER: 12  
 TYPE: A (OVHD)  
 QUANTITY: 1  
 SIGN WIDTH: 19'-0"  
 HEIGHT: 13'-6"  
 TOTAL AREA: 256.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"  
 NO. Z BARS: 4  
 LENGTH: 220.0

SYMBOL	X	Y	WID	HT
M1_1	61.5	89	45	36
M1_1	132.4	89	36	36
Type A Adv Lt	24.3	12	35.5	37
Type A Adv Lt	168.3	12	35.5	37

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



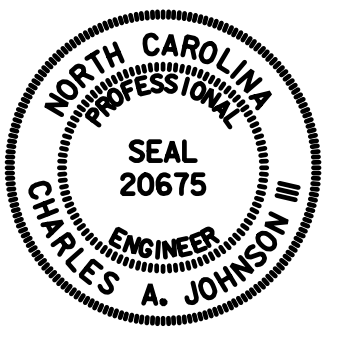
NOTES:  
 1. Legend, border and arrows shall be direct applied Grade A reflective sheeting.  
 2. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.  
 3. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size
													Text Length
W	E	S	T										E 2000
59.6	15.9	2.2	10.7	11	9	119.6							48.8
													E 2000
													20.8
													E 2000
													194.2

Spacing Factor is 1 unless specified otherwise

APPROVED: Charles A. Johnson, III  
DATE: 5/4/2016



DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

SIGN NUMBER: 15  
TYPE: A (OVHD)  
QUANTITY: 1  
SIGN WIDTH: 19'-0"  
HEIGHT: 10'-6"  
TOTAL AREA: 199.5 Sq.Ft.  
BORDER TYPE: FLUSH  
RECESS: 0"  
WIDTH: 2"  
RADIUS: 12"  
NO. Z BARS: 3  
LENGTH: 220.0

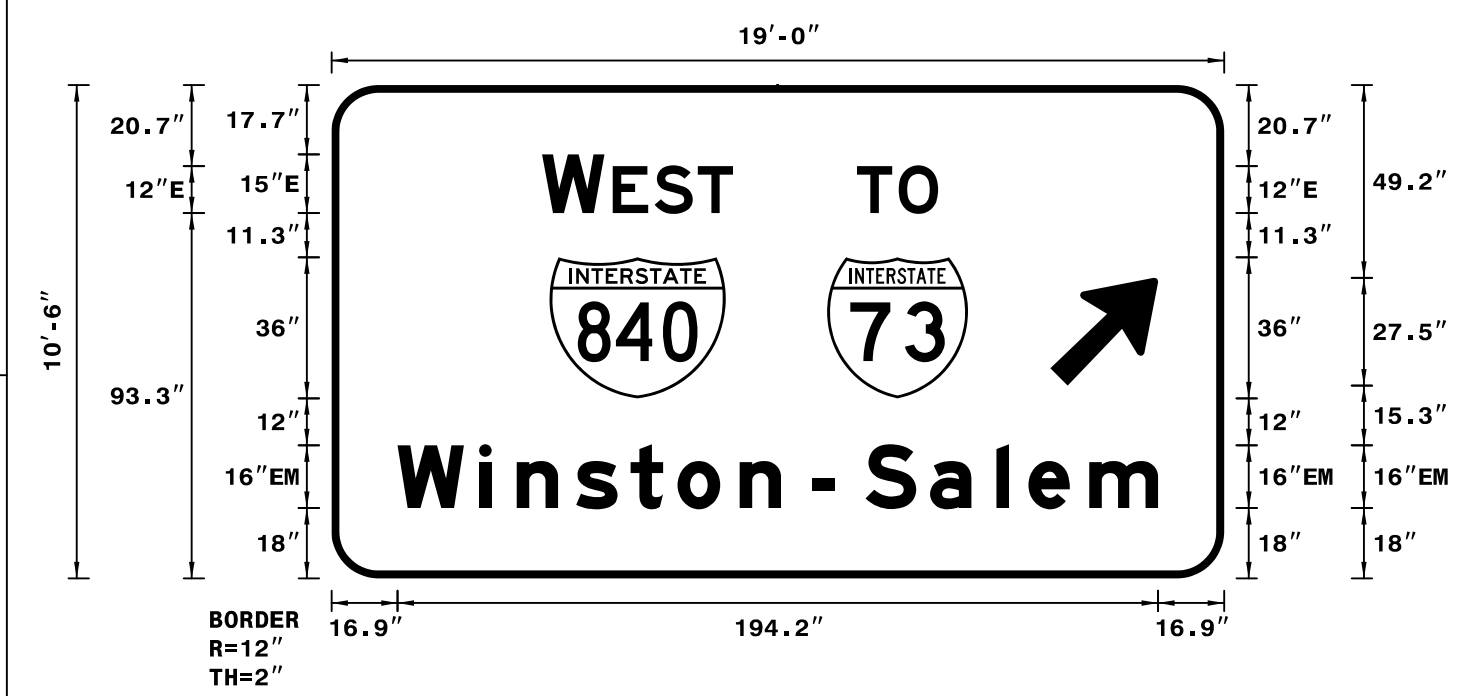
BACKG COLOR: Green  
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARMED	183.6	49.2	22.5	35.4
M1_1	55.7	46	45	36
M1_1	126.6	46	36	36

MAT'L: 0.125" ALUMINUM

NOTES:  
1. Legend, border and arrows 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.

DESIGN BY: TRT  
PROJECT ID: U-2524D  
CHECKED BY: ADK/CAJ  
DIV: 07  
DATE: April 2016



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	48.8
E 2000	20.8
EM 2000	194.2

SIGN NUMBER: 16  
TYPE: A (OVHD)  
QUANTITY: 1  
SIGN WIDTH: 11'-0"  
HEIGHT: 7'-0"  
TOTAL AREA: 77.0 Sq.Ft.  
BORDER TYPE: RECESSED  
RECESS: 0.75"  
WIDTH: 1.25"  
RADIUS: 3"  
NO. Z BARS: 2  
LENGTH: 124.0

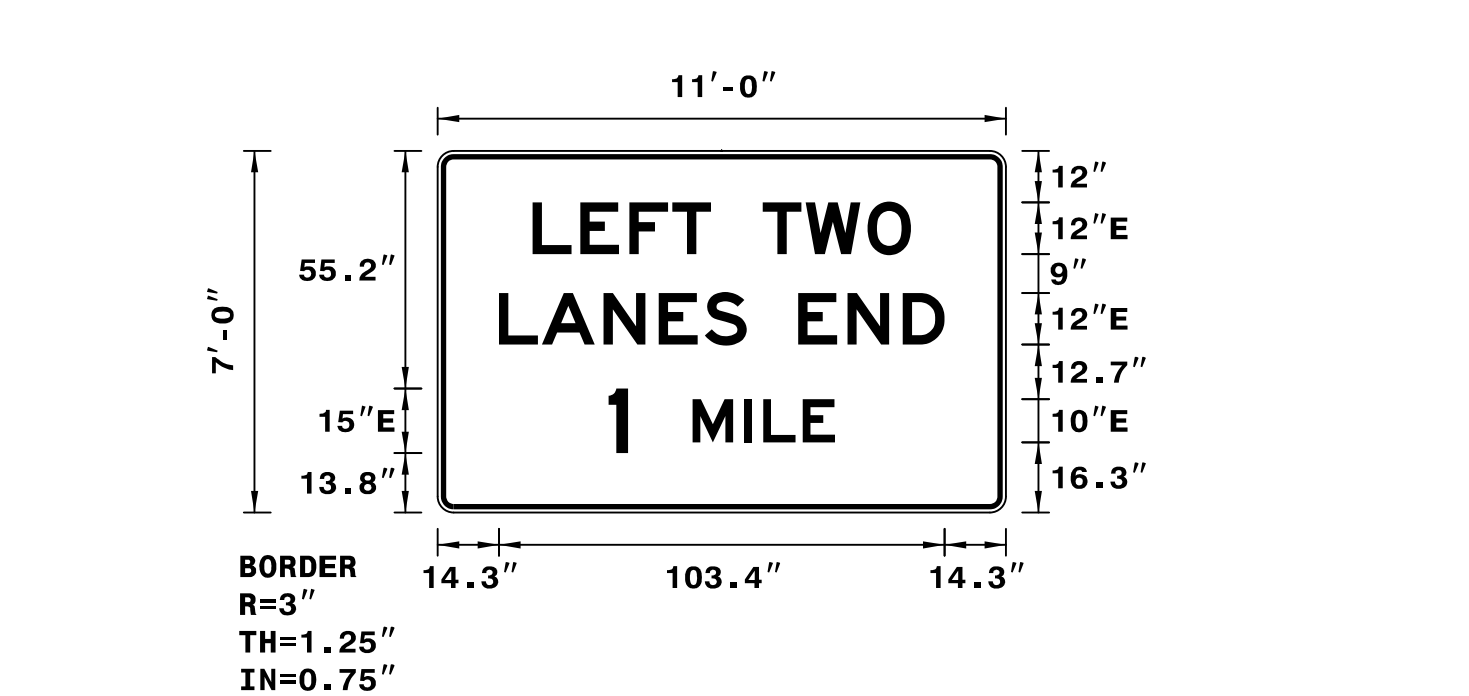
BACKG COLOR: Yellow  
COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" ALUMINUM

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

DESIGN BY: TRT  
PROJECT ID: U-2524D  
CHECKED BY: ADK/CAJ  
DIV: 07  
DATE: April 2016



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	87.8
E 2000	103.4
E 2000	52.6

SIGN NUMBER: 101  
TYPE: B  
QUANTITY: 1  
SIGN WIDTH: 7'-6"  
HEIGHT: 2'-6"  
TOTAL AREA: 18.8 Sq.Ft.  
BORDER TYPE: FLUSH  
RECESS: 0"  
WIDTH: 0.75"  
RADIUS: 3"  
NO. Z BARS: 2  
LENGTH: 82.0

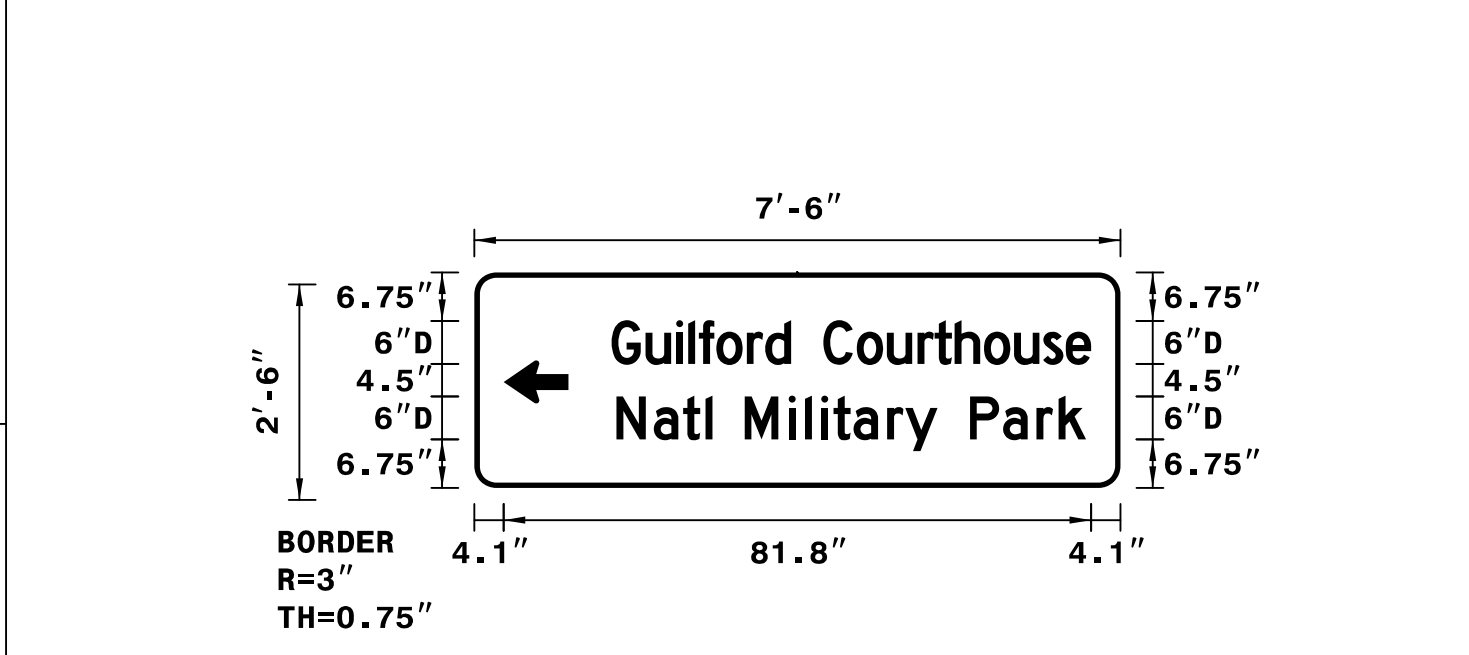
BACKG COLOR: Brown  
COPY COLOR: White

SYMBOL	X	Y	WID	HT
Type D Arrow	4.1	11.8	6	9

MAT'L: 0.125" ALUMINUM

NOTES:  
1. Legend, arrow and border shall be direct applied Grade C reflective sheeting.  
2. Background shall be Grade C reflective sheeting.  
3. Proposed single W10x26 support.

DESIGN BY: TRT  
PROJECT ID: U-2524D  
CHECKED BY: ADK/CAJ  
DIV: 07  
DATE: April 2016



Spacing Factor is 0.6 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
D 2000	66.8
D 2000	65.5

SIGN NUMBER: 102  
TYPE: A  
QUANTITY: 1  
SIGN WIDTH: 20'-6"  
HEIGHT: 7'-6"  
TOTAL AREA: 153.8 Sq.Ft.  
BORDER TYPE: FLUSH  
RECESS: 0"  
WIDTH: 2"  
RADIUS: 12"  
NO. Z BARS: 3  
LENGTH: 238.0

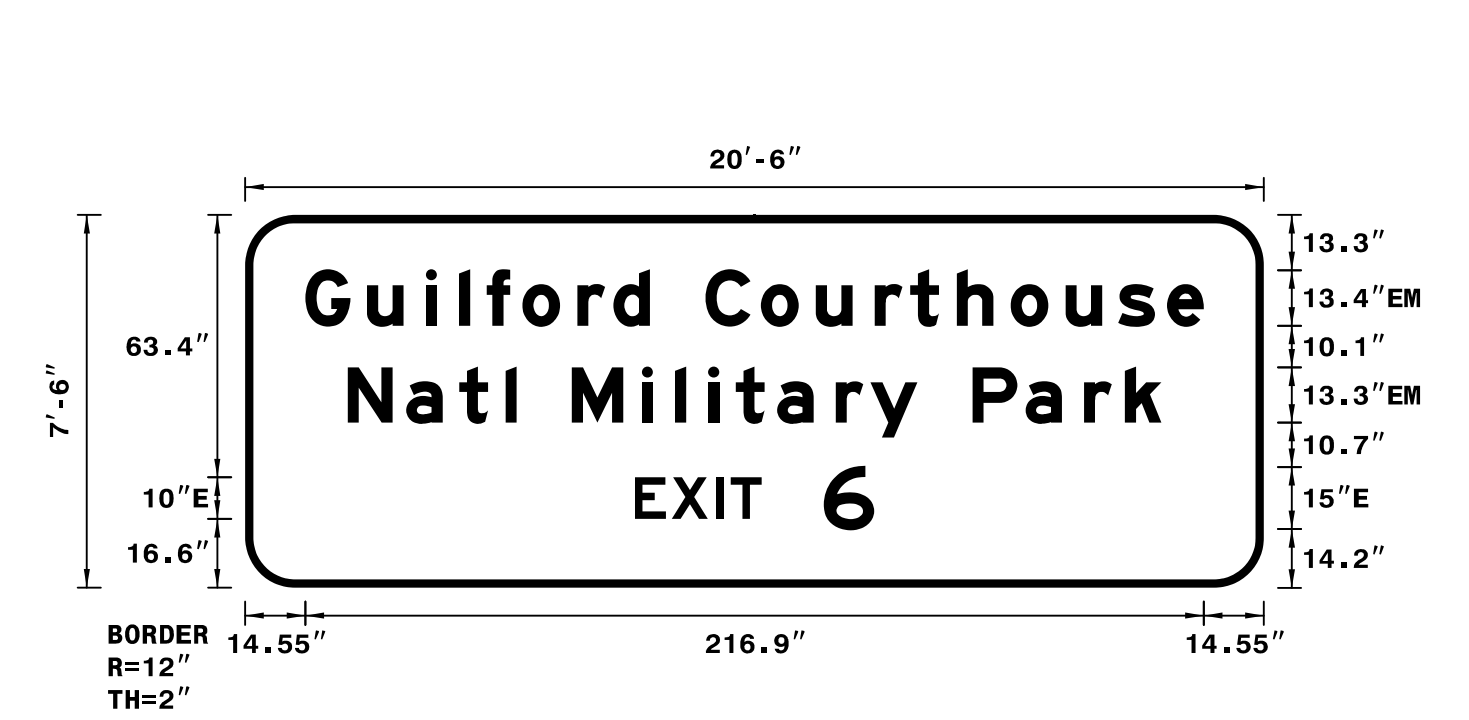
BACKG COLOR: Brown  
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" ALUMINUM

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

DESIGN BY: TRT  
PROJECT ID: U-2524D  
CHECKED BY: ADK/CAJ  
DIV: 07  
DATE: April 2016



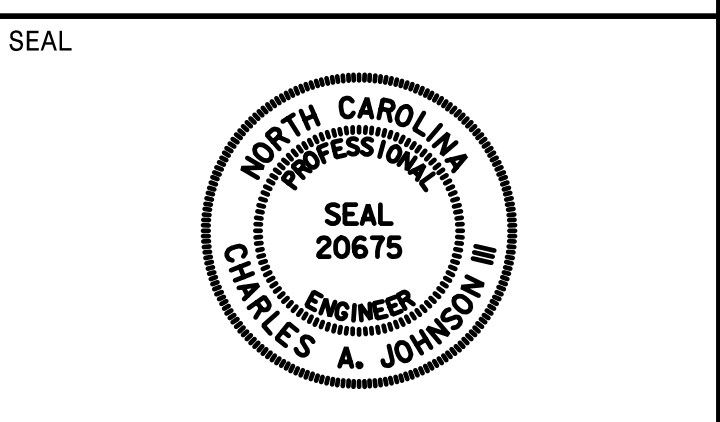
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	216.9
EM 2000	196.5
E 2000	57.8

APPROVED: *Charles A. Johnson, III*  
SEA156847F5A6  
 DATE: 5/4/2016



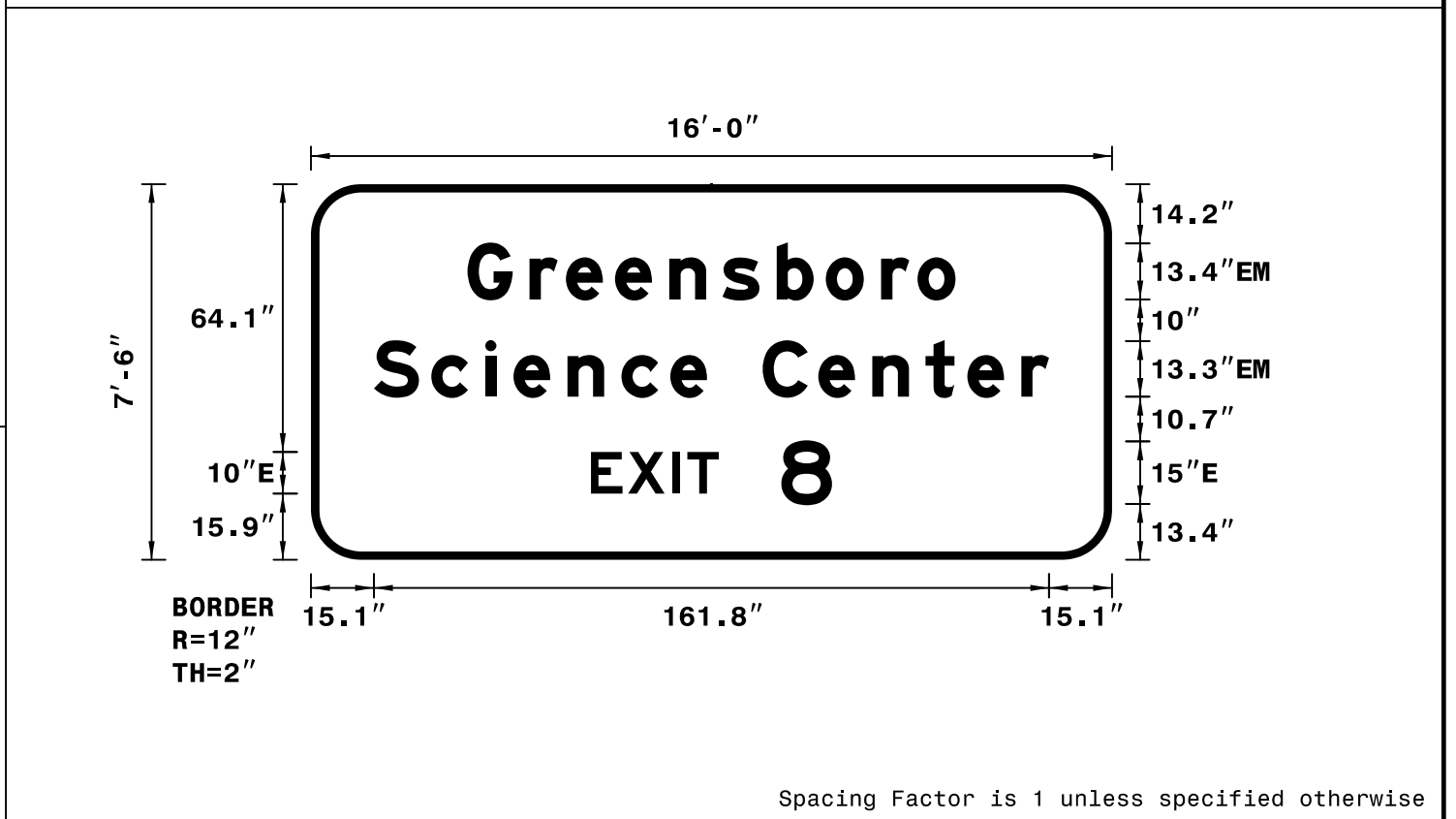
**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

SIGN NUMBER: 103  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 16'-0"  
 HEIGHT: 7'-6"  
 TOTAL AREA: 120.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 2"  
 RADII: 12"  
 NO. Z BARS: 3  
 LENGTH: 184.0

SYMBOL	X	Y	WID	HT

BACKG COLOR: Brown  
 COPY COLOR: White  
 MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



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

LETTER POSITIONS

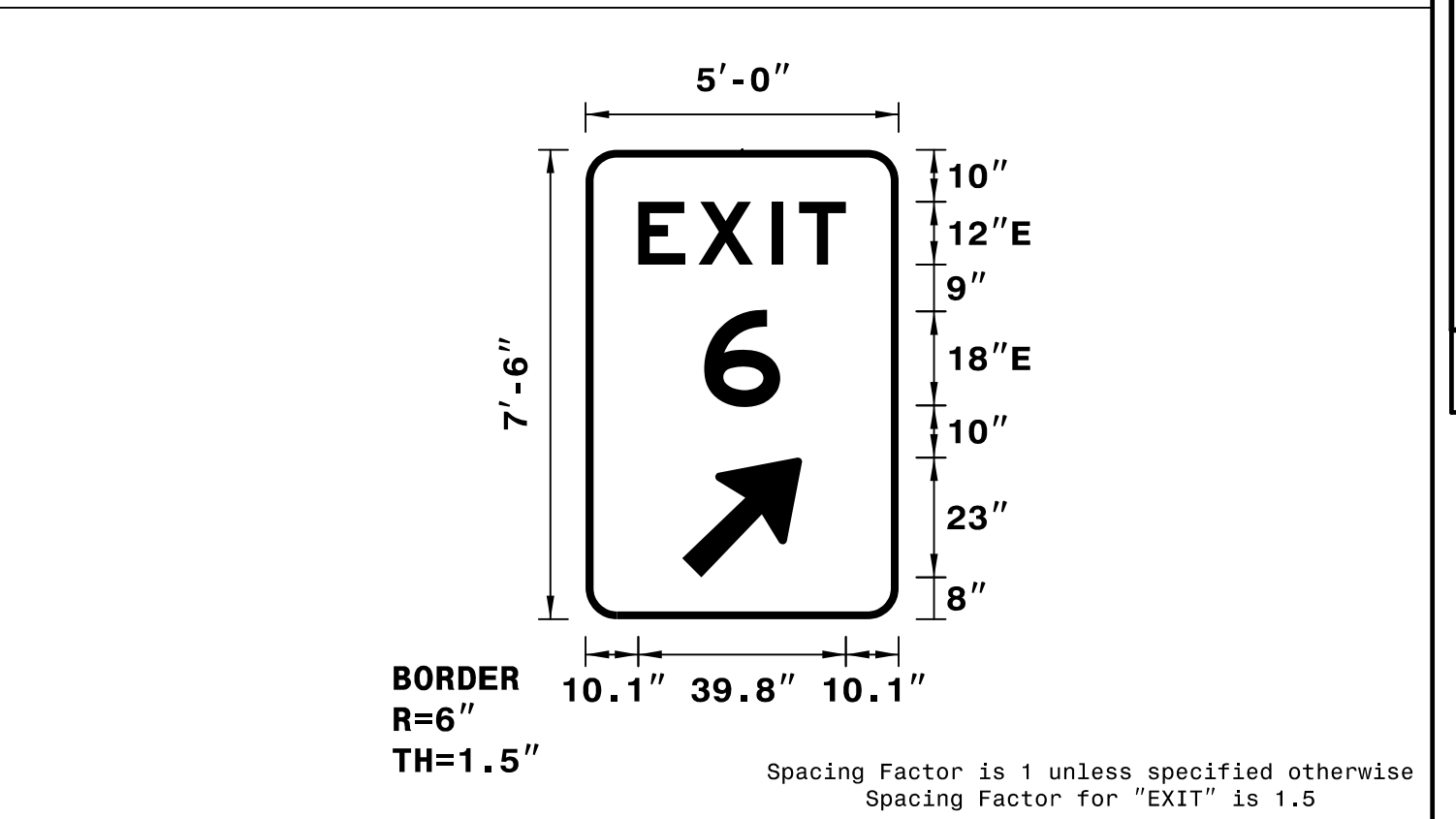
Letter spacings are to start of next letter													Series/Size		
													Text Length		
G	r	e	e	n	s	b	o	r	o				EM 2000		
37.5	14.9	8.7	11.8	13	12.7	13	11.8	13.3	8.7	9.1	37.5		117		
S	c	i	e	n	c	e	C	e	n	t	e	r	EM 2000		
15.1	13.7	12.9	6.8	12.9	11.7	8.8	13.3	13.3	12.9	12.8	10	12.9	6.7	15.1	161.8
E	X	I	T	8											E 2000
67.1	8.9	10.7	3.5	7.5	15	12.2	67.1								57.8

SIGN NUMBER: 201  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 5'-0"  
 HEIGHT: 7'-6"  
 TOTAL AREA: 37.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 1.5"  
 RADII: 6"  
 NO. Z BARS: 3  
 LENGTH: 52.0

SYMBOL	X	Y	WID	HT
Type A Arrow	18.5	8	18.3	29.3

BACKG COLOR: Green  
 COPY COLOR: White  
 MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



- NOTES:
- Legend, arrow and border shall be direct applied Grade C reflective sheeting.
  - Background shall be Grade C reflective sheeting.
  - Mounted on a proposed single W6x9 support.

LETTER POSITIONS

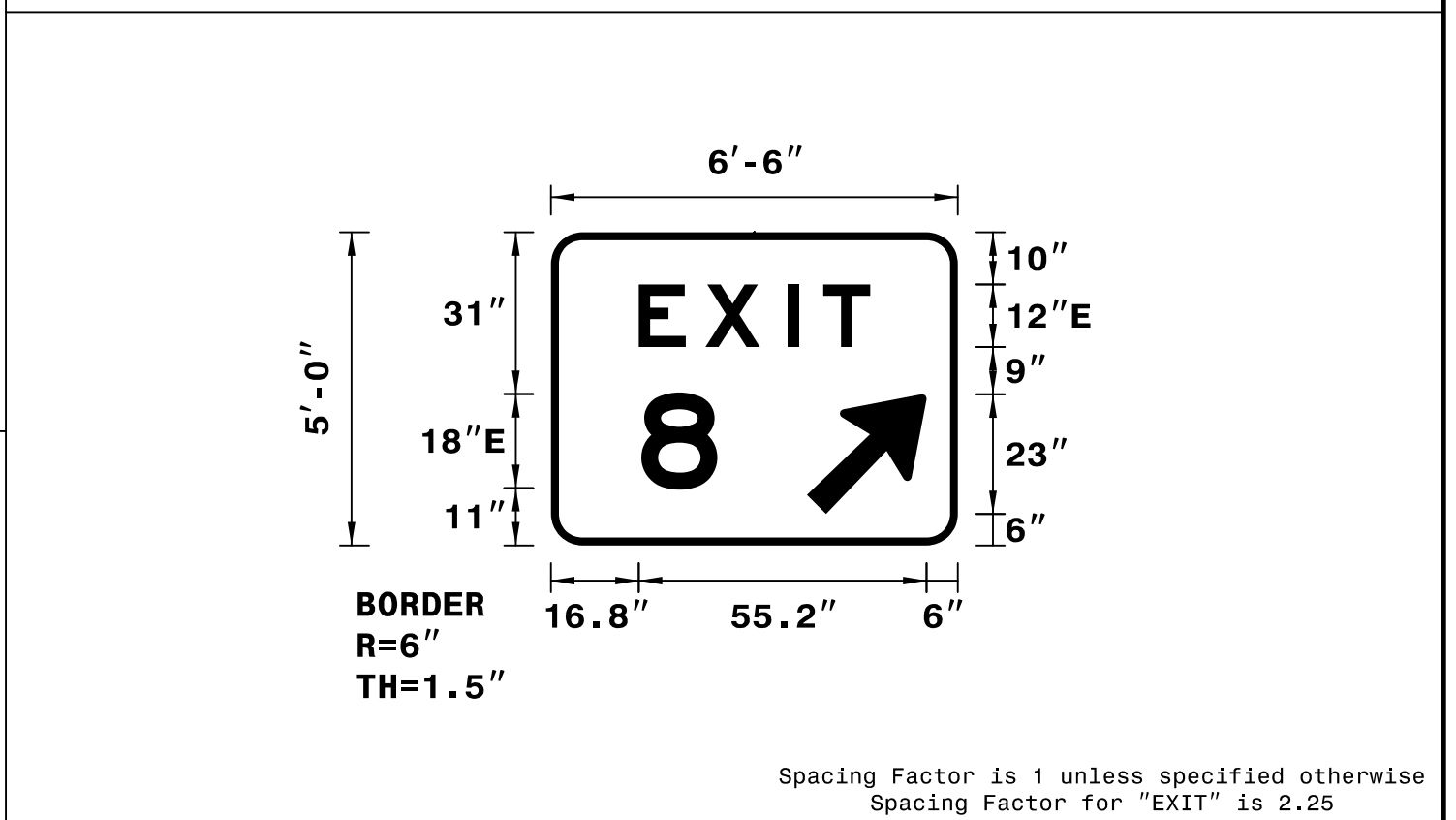
Letter spacings are to start of next letter						Series/Size
						Text Length
E	X	I	T			E 2000
10.1	11.5	14	5.2	9	10.1	39.8
6						E 2000
22.7	14.6	22.7				14.6

SIGN NUMBER: 202  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 6'-6"  
 HEIGHT: 5'-0"  
 TOTAL AREA: 32.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 1.5"  
 RADII: 6"  
 NO. Z BARS: 2  
 LENGTH: 70.0

SYMBOL	X	Y	WID	HT
Type A Arrow	49	6	18.3	29.3

BACKG COLOR: Green  
 COPY COLOR: White  
 MAT'L: 0.125" ALUMINUM

DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016



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

LETTER POSITIONS

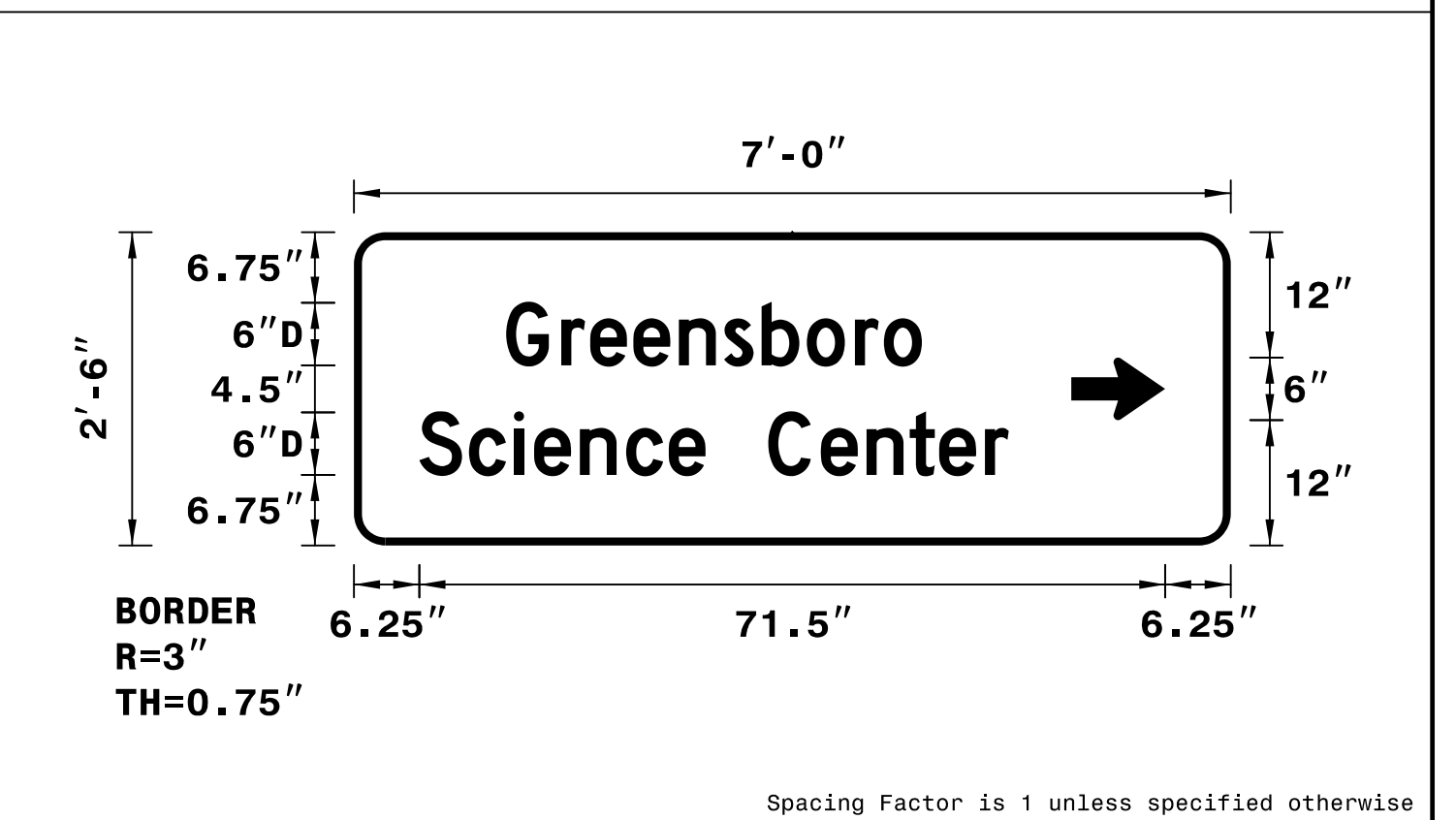
Letter spacings are to start of next letter													Series/Size
													Text Length
E	X	I	T										E 2000
16.8	12.8	15.8	6.8	9	16.8								44.4
8													E 2000
17.2	14.6	46.1											14.6

SIGN NUMBER: 301  
 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: N/A  
 LENGTH: N/A

SYMBOL	X	Y	WID	HT
Type D Arrow	68.7	12	6	9

BACKG COLOR: Brown  
 COPY COLOR: White  
 MAT'L: 0.125" ALUMINUM

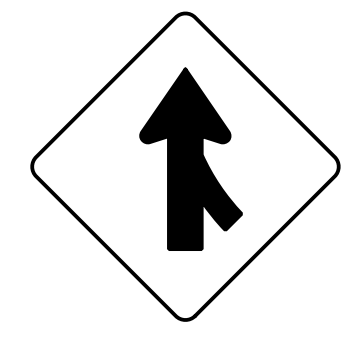

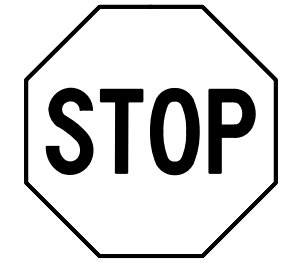
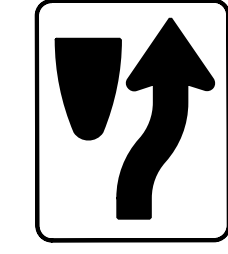
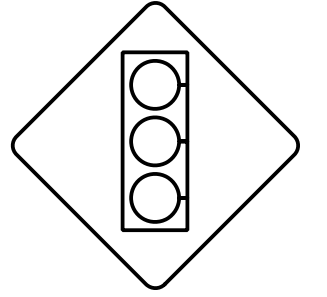


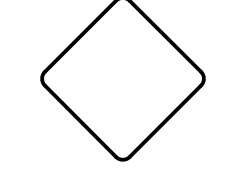
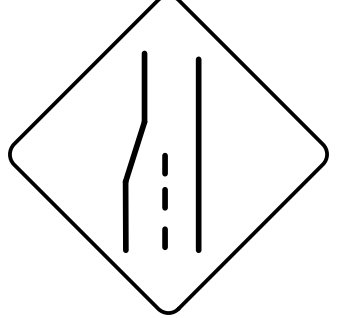

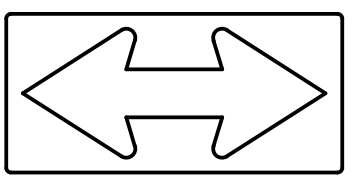
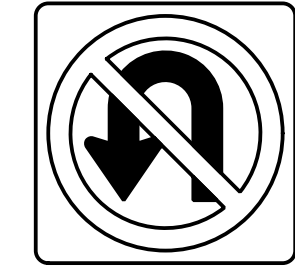
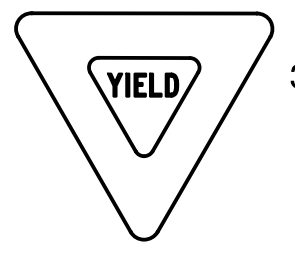


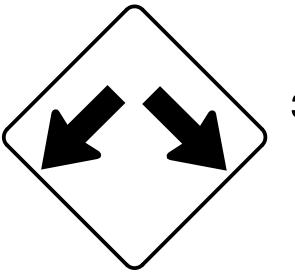
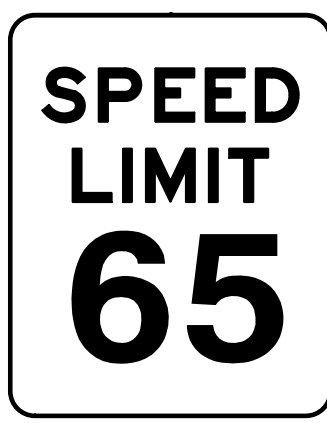
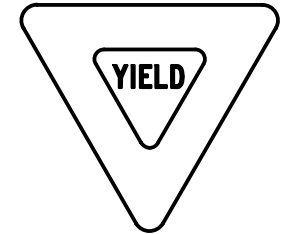
DESIGN BY: TRT  
 PROJECT ID: U-2524D  
 CHECKED BY: ADK/CAJ  
 DIV: 07  
 DATE: April 2016









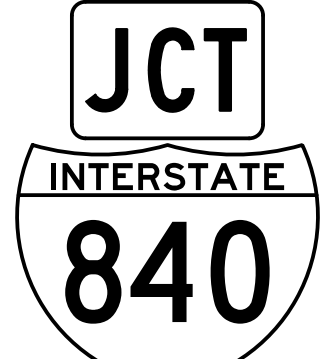



- NOTES:
- Legend, arrow and border shall be direct applied Grade C reflective sheeting.
  - Background shall be Grade C reflective sheeting.


LETTER POSITIONS

Letter spacings are to start of next letter													Series/Size			
													Text Length			
G	r	e	e	n	s	b	o	r	o				D 2000			
14.6	5.3	2.8	4.1	4.4	4.3	3.6	4.3	4.6	2.8	3.7	29.6		39.8			
S	c	i	e	n	c	e	C	e	n	t	e	r	D 2000			
6.3	4.7	4.3	1.9	4.4	4.4	4.1	3.5	6	5	4.4	4.1	2.8	4.4	2.3	21.3	56.5


<p>401 QUANTITY REQ'D 2</p>  <p>48" X 48" W4-1 (R)</p> <p>ONE BARRIER SUPPORT (LARGE) PER SIGN</p>	<p>406 QUANTITY REQ'D 8</p>  <p>36" X 24" R5-1a</p> <p>ONE "U" POST PER SIGN</p>	<p>411 QUANTITY REQ'D 2</p>  <p>36" X 36" R1-1</p> <p>ONE "U" POST PER SIGN</p>	<p>416 QUANTITY REQ'D 4</p>  <p>24" X 30" R4-7</p> <p>ONE "U" POST PER SIGN</p>		
<p>402 QUANTITY REQ'D 4</p>  <p>48" X 48" W3-3</p> <p>TWO "U" POSTS PER SIGN</p>	<p>407 QUANTITY REQ'D 8</p>  <p>36" X 36" R5-1</p> <p>ONE "U" POST PER SIGN</p>	<p>412 QUANTITY REQ'D 1</p>  <p>30" X 30" W14-2</p> <p>ONE "U" POST PER SIGN</p>	<p>417 QUANTITY REQ'D 4</p>  <p>18" X 18" OM1-3</p> <p>MOUNT BELOW SIGN 416 IN 4 INSTALLATIONS</p>		
<p>403 QUANTITY REQ'D 5</p>  <p>48" X 48" W4-2(L)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>408 QUANTITY REQ'D 4</p>  <p>54" X 18" R6-1 (R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>413 QUANTITY REQ'D 2</p>  <p>48" X 24" W1-7</p> <p>TWO "U" POSTS PER SIGN</p>	<p>418 QUANTITY REQ'D 2</p>  <p>36" X 36" R3-4</p> <p>MOUNT ON BACK OF SIGN 416 IN 2 INSTALLATIONS</p>		
<p>404 QUANTITY REQ'D 2</p>  <p>36" X 36" X 36" R1-2</p> <p>ONE "U" POST PER SIGN</p>	<p>409 QUANTITY REQ'D 2</p>  <p>48" X 48" W9-1(L)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>414 QUANTITY REQ'D 5</p>  <p>24" X 30" R2-1</p> <p>ONE "U" POST PER SIGN</p>			
<p>405 QUANTITY REQ'D 2</p>  <p>36" X 36" W12-1</p> <p>ONE "U" POST PER SIGN</p>	<p>410 QUANTITY REQ'D 2</p>  <p>48" X 60" R2-1</p> <p>TWO "U" POSTS PER SIGN</p>	<p>415 QUANTITY REQ'D 1</p>  <p>18" X 18" X 18" R1-2</p> <p>ONE "U" POST PER SIGN</p>			

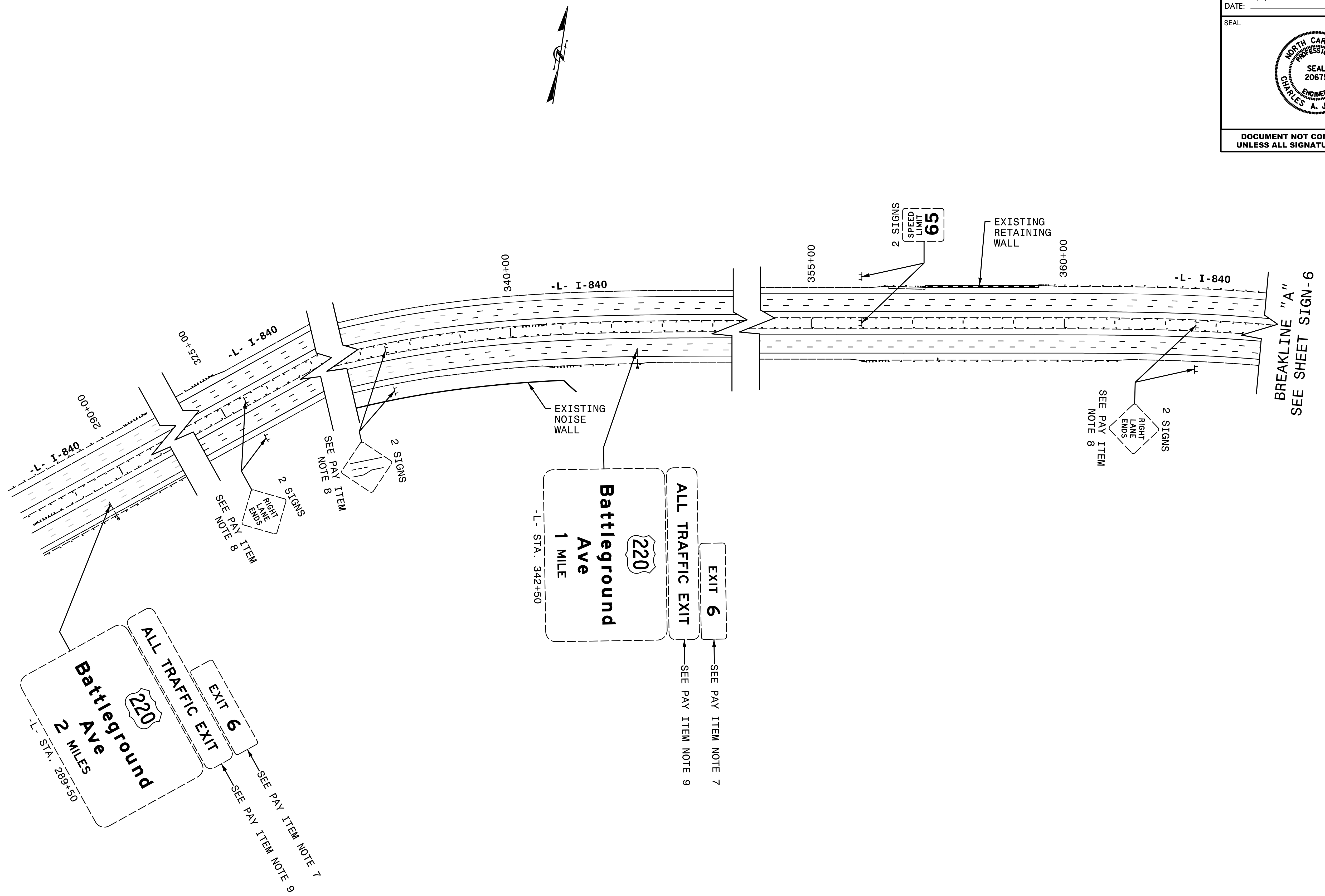
TIP NO. U-2524D	SHEET NO. SIGN-4F
APPROVED: <u>Charles A. Johnson, III</u> <small>DocuSigned by: Charles A. Johnson, III 59A1555B47F54A6</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	


<p>501</p>  <p>1 - 36" X 18" 1 - 60" X 48"</p> <p>TWO "U" POSTS PER ASSEMBLY</p>		 <p>18" X 54"</p> <p>ONE "U" POST PER SIGN</p>	 <p>18" X 54"</p> <p>ONE "U" POST PER SIGN</p>		
<p>502</p>  <p>1 - 36" X 18" 1 - 60" X 48"</p> <p>TWO "U" POSTS PER ASSEMBLY</p>		 <p>18" X 54"</p> <p>ONE "U" POST PER SIGN</p>			
<p>503 504</p>  <p>1 - 30" X 21" 1 - 45" X 36"</p> <p>TWO "U" POSTS PER ASSEMBLY</p>		 <p>18" X 60"</p> <p>ONE "U" POST PER SIGN</p>			
		 <p>18" X 60"</p> <p>ONE "U" POST PER SIGN</p>			
		 <p>18" X 54"</p> <p>ONE "U" POST PER SIGN</p>			

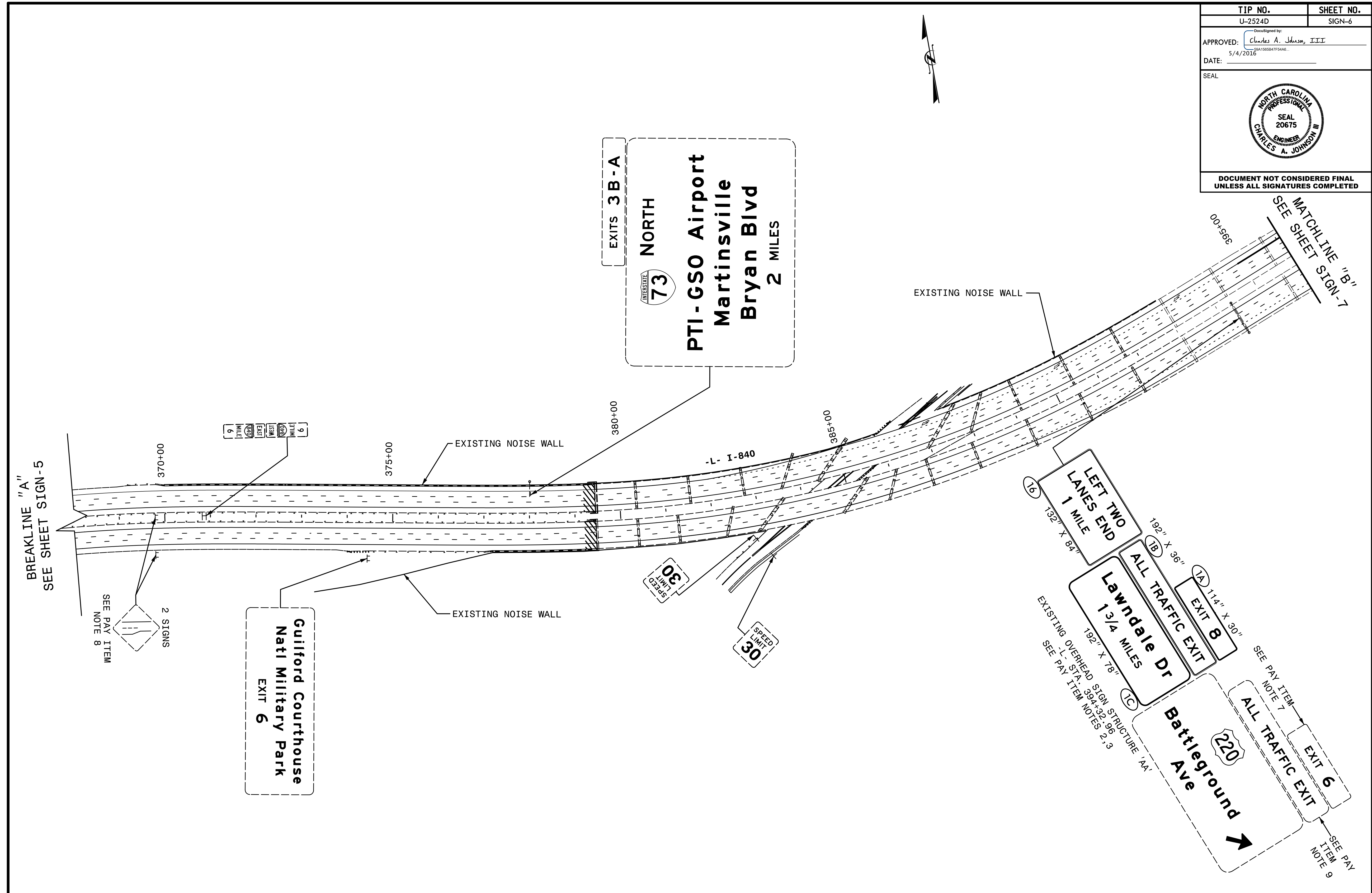
TIP NO. U-2524D	SHEET NO. SIGN-4G
<small>DocuSigned by:</small> APPROVED: Charles A. Johnson, III <small>SEA1565847F5446</small>	
DATE: 5/4/2016	
SEAL	
	
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**TYPE 'F' AND  
MILEMARKER SIGNS**

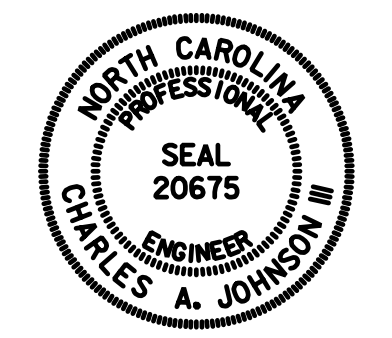
TIP NO. U-2524D	SHEET NO. SIGN-5
APPROVED: <i>Charles A. Johnson, III</i> 5/4/2016	
DATE: 5/4/2016	
SEAL	
	
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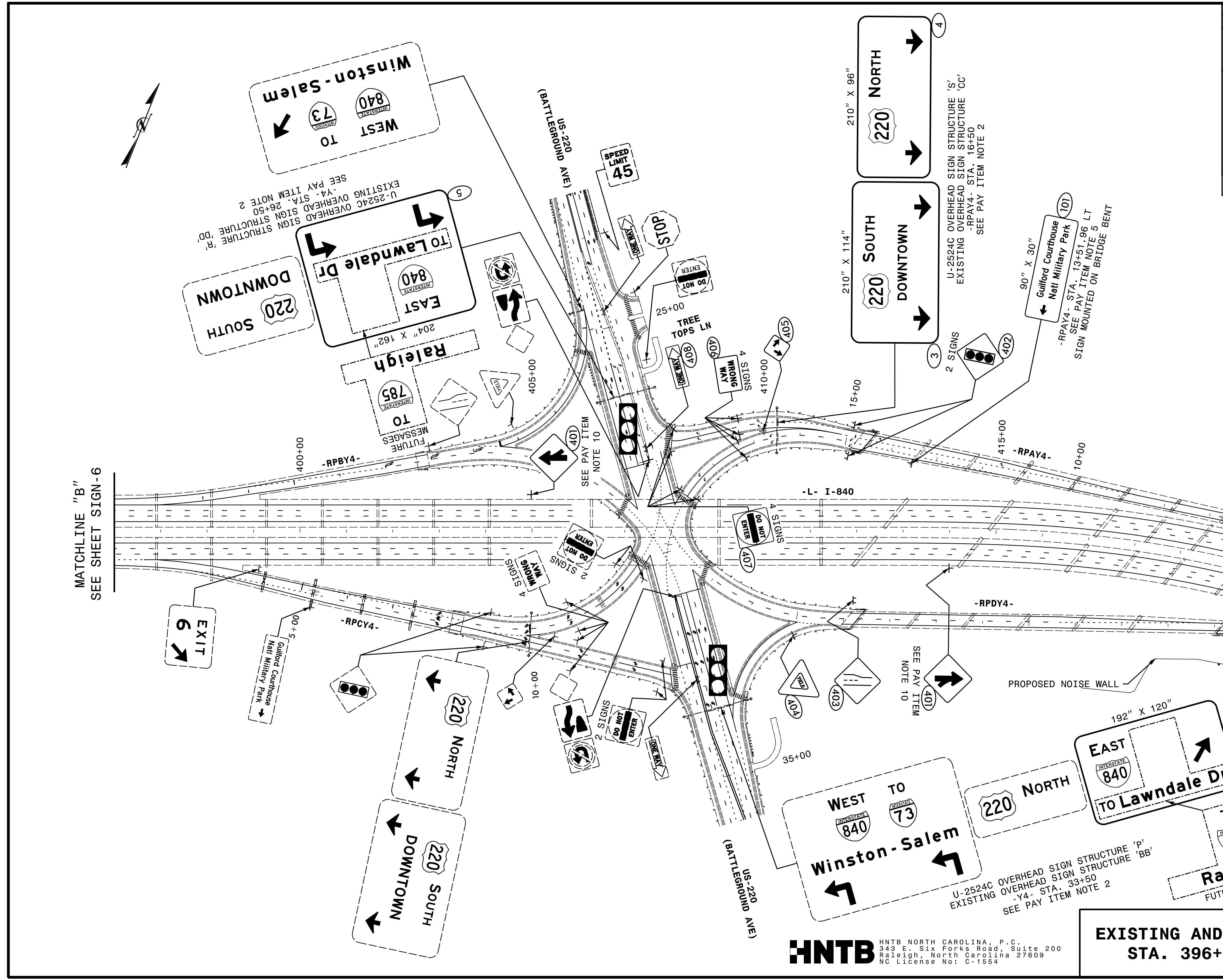


TIP NO. U-2524D	SHEET NO. SIGN-6
APPROVED: <i>Charles A. Johnson, III</i> 5/4/2016	
DATE: 5/4/2016	
SEAL	
	
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**EXISTING AND PROPOSED SIGNS  
STA. 368+00 TO 396+00**


TIP NO. U-2524D	SHEET NO. SIGN-7
APPROVED: <i>Charles A. Johnson, III</i> <small>58A1955847F54A6</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

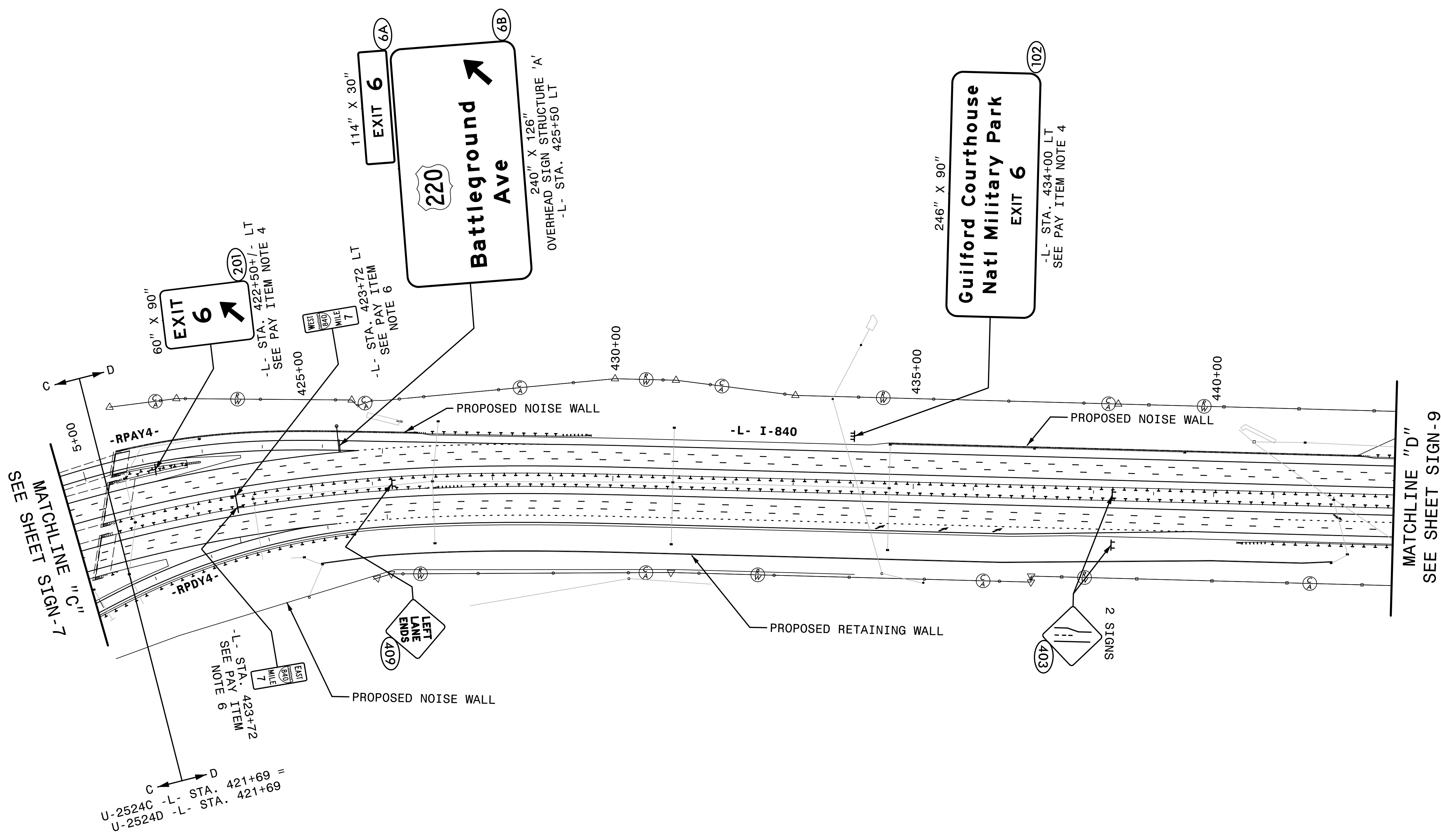


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**EXISTING AND PROPOSED SIGNS  
STA. 396+00 TO 421+00**



TIP NO. U-2524D	SHEET NO. SIGN-8
APPROVED: <i>Charles A. Johnson, III</i> <small>59A1566B47F54A8...</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




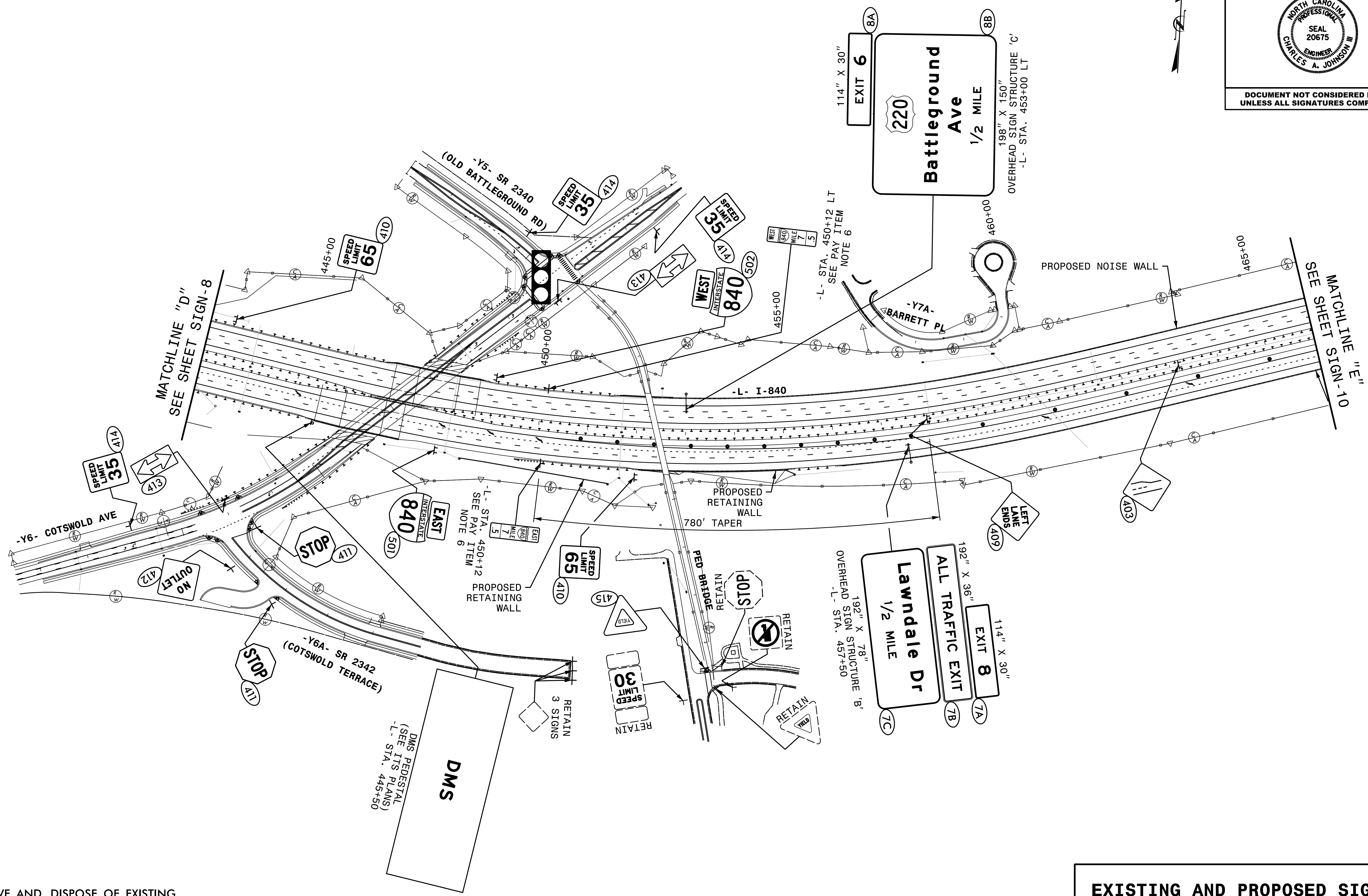
NOTE:

1. REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN U-2524D ROADWAY PROJECT LIMITS UNLESS OTHERWISE NOTED.

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**PROPOSED SIGNS**  
**STA. 421+00 TO 443+00**

TIP NO. U-2524D	SHEET NO. SIGN-9
APPROVED: <i>Charles A. Johnson, III</i> 59A1565B47F54A6	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	




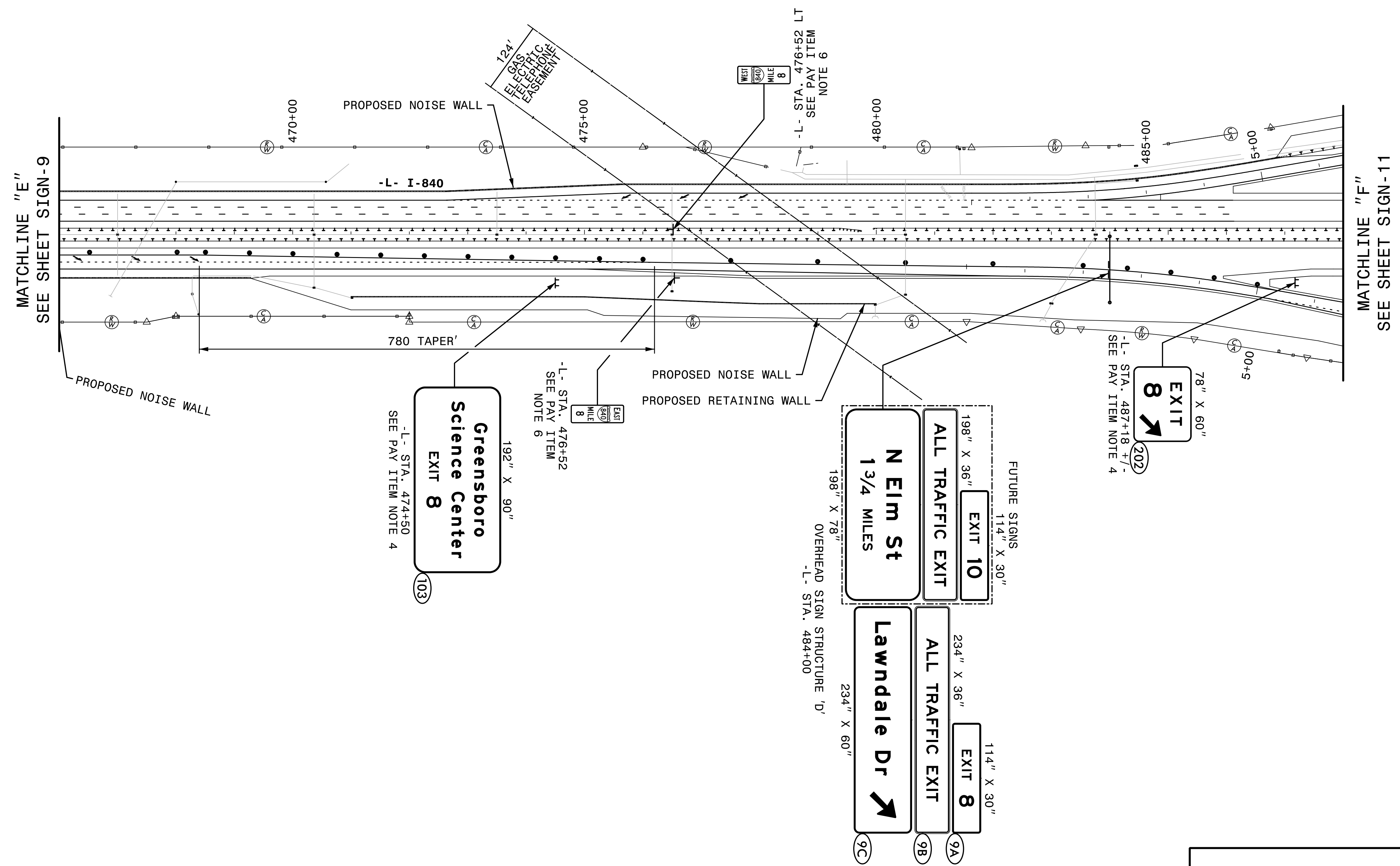
NOTE:

1. REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN U-2524D ROADWAY PROJECT LIMITS UNLESS OTHERWISE NOTED.

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**EXISTING AND PROPOSED SIGNS  
STA. 443+00 TO 466+00**


TIP NO. U-2524D	SHEET NO. SIGN-10
APPROVED: <u>Charles A. Johnson, III</u> 5/4/2016	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

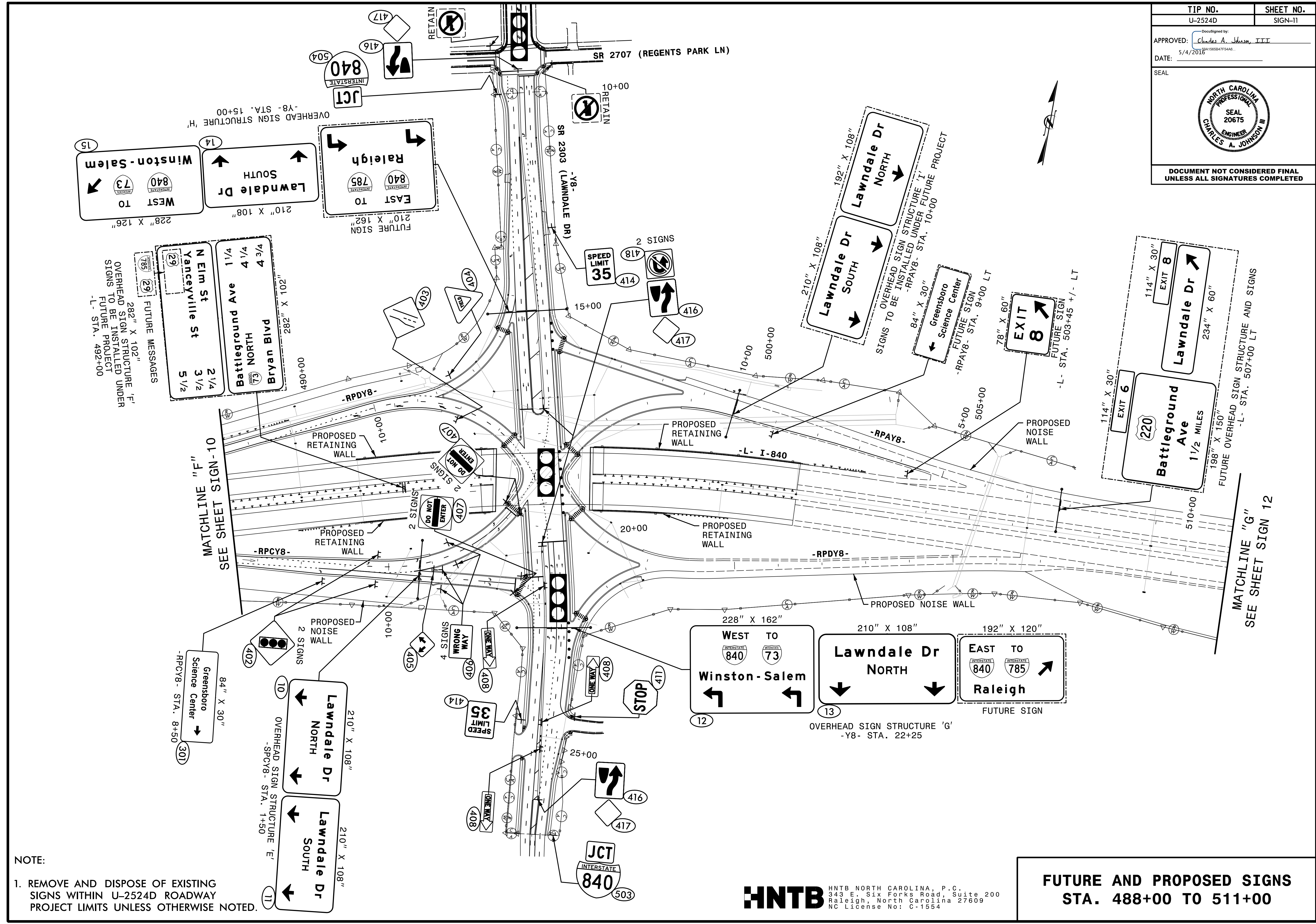


NOTE:  
1. REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN U-2524D ROADWAY PROJECT LIMITS UNLESS OTHERWISE NOTED.

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**PROPOSED SIGNS  
STA. 466+00 TO 488+00**


TIP NO. U-2524D	SHEET NO. SIGN-11
APPROVED: <i>Charles A. Johnson, III</i> DATE: 5/4/2016	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTE:  
1. REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN U-2524D ROADWAY PROJECT LIMITS UNLESS OTHERWISE NOTED.

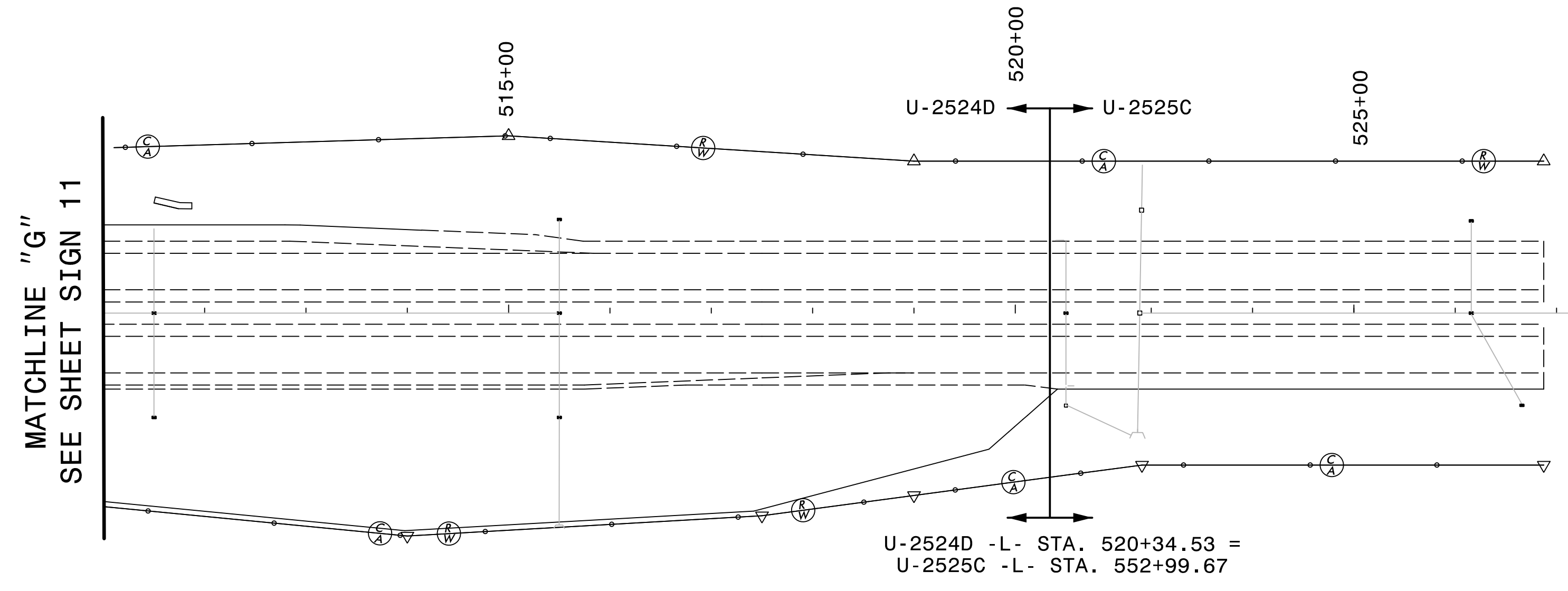
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**FUTURE AND PROPOSED SIGNS  
STA. 488+00 TO 511+00**

TIP NO. U-2524D	SHEET NO. SIGN-12
APPROVED: <u>Charles A. Johnson, III</u> <small>DocuSigned by: 58A1955B47F54A6...</small>	
DATE: 5/4/2016	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



**NO SIGN WORK THIS SHEET**



NOTE:

1. REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN U-2524D ROADWAY PROJECT LIMITS UNLESS OTHERWISE NOTED.

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**STA. 511+00 TO 520+34.53**