

**PROJECT: BR-0036**

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
NASH COUNTY**

**LOCATION: EXIT 150, NC-33 I-95**

TIP NO. BR - 0036	SHEET NO. SIGN - 1
APPROVED: DATE: 3/19/2020	
SEAL 	
<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 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
901.80	SIGN MOUNTING DETAILS TYPE 'A' AND TYPE 'B' SIGNS
903.10	GROUND MOUNTED SIGN SUPPORT
904.10	ORIENTATION OF GROUND MOUNTED SIGN
904.50	MOUNTING ON TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POST

**GENERAL NOTES**

- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- . THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- . SEE ROADWAY PLANS FOR GUARD RAIL DETAILS.

**PROJECT NOTES**

1. EXISTING SIGN TO REMAIN
2. DISPOSE OF SIGN SYSTEM, TYPE 'D' 'E' OR 'F'
3. RELOCATION OF SIGN SYSTEM, TYPE 'D' 'E' OR 'F'
4. RELOCATION OF SIGN SYSTEM, TYPE 'A' OR 'B'

**SUMMARY OF QUANTITIES**

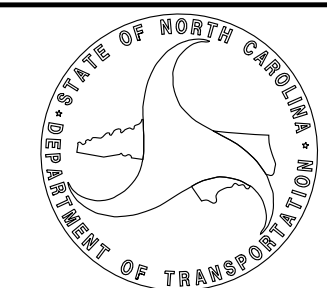
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1	CY.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAMS	772	LB.
4072000000	903	SUPPORTS, 3-LB STEEL U-CHANNEL	495	LF.
4102000000	904	SIGN ERECTION, TYPE E	28	EA.
4108000000	904	SIGN ERECTION, TYPE F	40	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	4	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL	33	EA.
4236000000	907	DISPOSAL OF SIGN, A OR B (GROUND MOUNTED)	4	EA.
4238000000	907	DISPOSAL OF SIGN, D, E OR F	68	EA.

**INDEX**

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE 'B' GROUND MOUNTED SIGNS
SIGN-3	TYPE 'E' SIGNS
SIGN-4	TYPE 'F' SIGNS
SIGN-5 THRU SIGN-8	SPECIAL SIGN DESIGNS
SIGN-9	SIGN PLAN

**PLAN SUBMITTED TO:**

**AYMAN I. ALQUDWAH, PE, SIGNING AND DELINEATION REGIONAL ENGINEER**




**PLAN PREPARED BY: Vaughn & Melton Engineering**

**PAUL GARRETT PE** PROJECT ENGINEER  
**RICHARD L. HARDISON PLS, PE** PROJECT DESIGN ENGINEER



- |  |   |  |
|--|---|--|
| <input type="checkbox"/> Raleigh, NC<br>919-977-9455     | <input type="checkbox"/> Charlotte, NC<br>704-357-0488    | <input type="checkbox"/> Boone, NC<br>828-355-9933     |
| <input type="checkbox"/> Tri-Cities, TN<br>423-467-8401  | <input type="checkbox"/> Tri-Cities, TN<br>423-467-8401   | <input type="checkbox"/> Knoxville, TN<br>865-546-5800 |
| <input type="checkbox"/> Charleston, SC<br>843-974-5650  | <input type="checkbox"/> Milledgeboro, KY<br>606-248-6600 | <input type="checkbox"/> Atlanta, GA<br>770-621-3509   |
| <input type="checkbox"/> Spartanburg, SC<br>864-574-4775 |   |  |

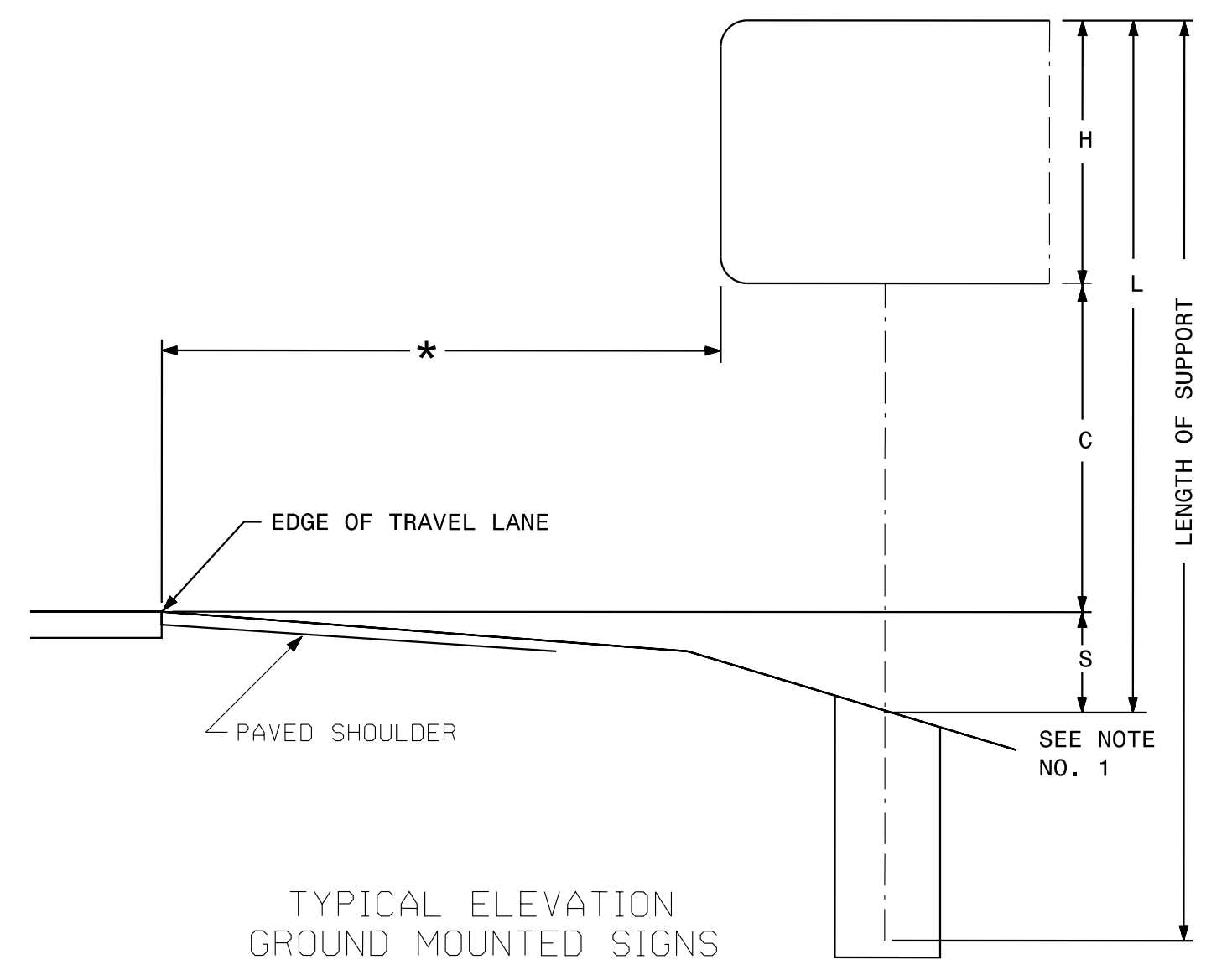
5/14/20

TIP NO. BR-0036	SHEET NO. SIGN-2
APPROVED: <i>RH</i>	
DATE: 3/19/2020	
SEAL	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

NUMBER	TYPE	SIGN SIZE (in.)			ROADWAY STATION	NUMBER OF SUPPORTS	BEAM SECTION	SUPPORT TYPE BA or S	OMNI COUPLER	ATTACHMENT METHOD	MOUNTING METHOD	HORIZONTAL CLEARANCE* (ft.)	SUPPORT SPACING	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			SUPPORT WEIGHTS		FOOTINGS				FIELD VERIFIED SEE NOTE 2 (mm/dd/y)
		w	x	h										SNS HT	MTG HT	EMB- MENT	S	L	LENGTH	S	L	TOTAL LENGTH	S	L	LENGTH	B/A (lbs.)	SIMPLE (lbs.)	DIAMETE R (ft.)	DEPTH (ft.)	REINFOR CED (c.y.)	PLAIN (c.y.)	
		"H"	"C"																													
101	B	108	x	36	12+74	2	S3x5.7	BA	N/A	N/A	N/A	10.00	5.25 NON-STD. SPACING	3.00	7.00	2.5	0.96	10.96	13.46	0.00	0.00	0.00	2.71	12.71	15.21	199.42	0	1.0	3	0.00	0.17	
102	B	84	x	36	17+72	2	S3x5.7	BA	N/A	N/A	N/A	10.00	4.67 NON-STD. SPACING	3.00	7.00	2.0	0.62	10.62	12.62	0.00	0.00	0.00	2.17	12.17	14.17	188.70	0	1.0	2.5	0.00	0.15	
103	B	108	x	36	20+48	2	S3x5.7	BA	N/A	N/A	N/A	10.00	5.25 NON-STD. SPACING	3.00	7.00	2.5	0.62	10.62	13.12	0.00	0.00	0.00	2.17	12.17	14.67	194.40	0	1.0	3	0.00	0.17	
104	B	84	x	36	17+72	2	S3x5.7	BA	N/A	N/A	N/A	10.00	4.67 NON-STD. SPACING	3.00	7.00	2.0	0.62	10.62	12.62	0.00	0.00	0.00	2.17	12.17	14.17	188.70	0	1.0	2.5	0.00	0.15	
														TOTAL			TOTAL			TOTAL				TOTAL								
														771.23			0.00			0.00				0.64								
														USE: 772.00			0.00			0.00				1.00								

**PROJECT NOTES**

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
- 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.
- IF GROUNDWATER IS ENCOUNTERED AT A DEPTH SHALLOWER THAN 7 FEET, THE SIGN FOUNDATION MUST BE REDESIGNED BASED UPON THE ACTUAL FIELD CONDITIONS. THE FOUNDATION DESIGN DOES NOT APPLY TO VERY SOFT OR LOOSE SOIL, MUCK, WEATHERED ROCK, OR HARD ROCK.

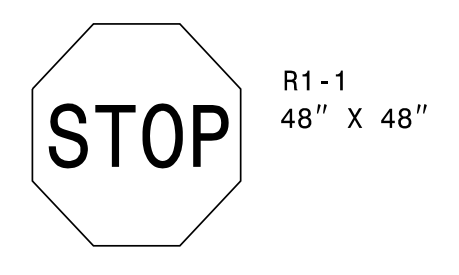


**TYPE 'B'  
GROUND MOUNTED SIGNS**

C:\Users\3174821\OneDrive\Documents\Traffic\Signing\br-0036\Traffic\sign2.dgn  
 3/19/2020 9:24:18 AM  
 R:\Users\3174821\OneDrive\Documents\Traffic\Signing\br-0036\Traffic\sign2.dgn

5/14/20

401 QUANTITY REQ'D \_6\_



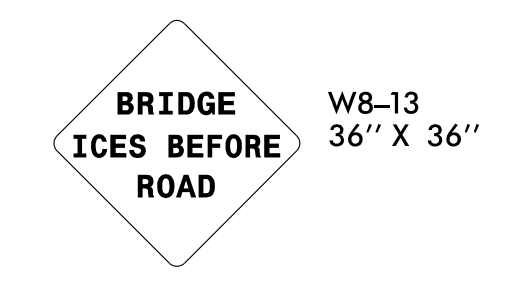
ONE "U" POSTS PER SIGN

402 QUANTITY REQ'D \_2\_



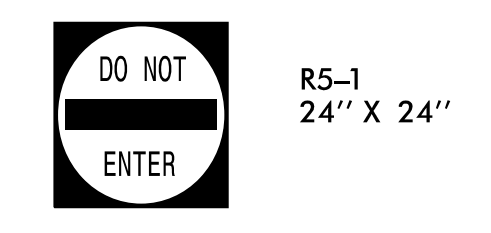
ONE "U" POSTS PER SIGN

403 QUANTITY REQ'D \_2\_



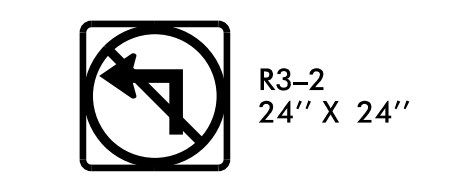
ONE "U" POSTS PER SIGN

404 QUANTITY REQ'D \_6\_



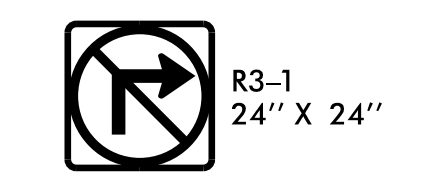
ON SAME POST WITH SIGN 401 OPPOSITE SIDE

405 QUANTITY REQ'D \_2\_



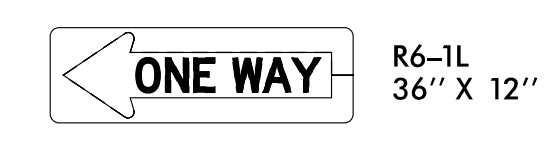
ONE "U" POSTS PER SIGN

406 QUANTITY REQ'D \_2\_



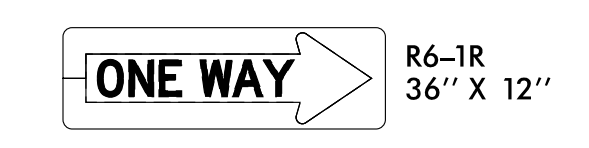
ONE "U" POSTS PER SIGN

407 QUANTITY REQ'D \_2\_



ONE "U" POSTS PER SIGN

408 QUANTITY REQ'D \_2\_



ON SAME POST WITH SIGN 407 OPPOSITE SIDE

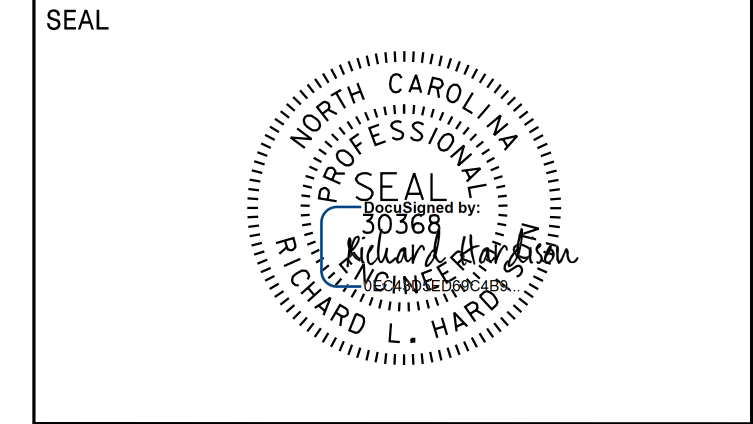
409 QUANTITY REQ'D \_4\_



ONE "U" POSTS PER SIGN

TIP NO. BR-0036 SHEET NO. SIGN-3

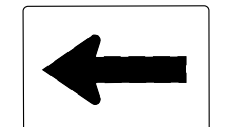
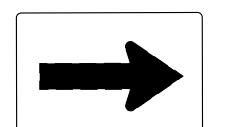
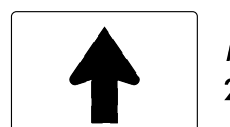

APPROVED: [Signature] DATE: 3/19/2020




DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

TYPE 'E' SIGNS

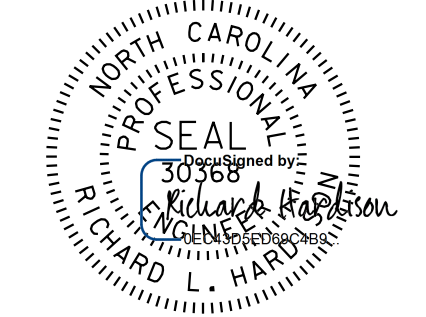
\\sures\2025\2020\_04\6\27 AM 04-0036\Traffic\Signing\br-0036\_rdy\_sign3.dgn

<p>501 QUANTITY REQ'D 4</p>  M6-1 L 21" X 15"	<p>502 QUANTITY REQ'D 4</p>  M6-1 21" X 15"	<p>503 QUANTITY REQ'D 3</p>  M6-3 21" X 15"	<p>504 QUANTITY REQ'D 2</p>  M5-1 21" X 15"	<p>505 QUANTITY REQ'D 4</p> <p>NORTH M3-1 24" X 12"</p>	<p>506 QUANTITY REQ'D 4</p> <p>SOUTH M3-3 24" X 12"</p>
ON SAME POST WITH SIGNS 509 AND 510	ON SAME POST WITH SIGNS 509 AND 510	ON SAME POST WITH SIGNS 509 AND 510	ON SAME POST WITH SIGN 509	ON SAME POST WITH SIGN 509	ON SAME POST WITH SIGN 509



APPROVED: 

DATE: 3/19/2020

SEAL



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

<p>507 QUANTITY REQ'D 3</p> <p>EAST M3-2 24" X 12"</p> <p>ON SAME POST WITH SIGN 510</p>	<p>508 QUANTITY REQ'D 3</p> <p>WEST M3-4 24" X 12"</p> <p>ON SAME POST WITH SIGN 510</p>	<p>509 QUANTITY REQ'D 8</p>  M1-1 24" X 24"	<p>510 QUANTITY REQ'D 5</p>  M1-5 24" X 24"		
ONE "U" POSTS PER SIGN	ONE "U" POSTS PER SIGN	ONE "U" POSTS PER SIGN	ONE "U" POSTS PER SIGN		

2/25/2020 9:51:17 AM  
V:\shreveville\structures\31748-41 Nash 41 BR-0036\Traffic\Signimg\br0036\_r-dj\_sign4.dgn  
User: jphillip

**TYPE 'F' SIGNS**

**SIGN NUMBER: 101**  
**TYPE: B**  
**QUANTITY: 1**

**SIGN WIDTH: 9'-0"**  
**HEIGHT: 3'-0"**  
**TOTAL AREA: 27.0 sq.ft.**

**BORDER TYPE: FLUSH**  
**RECESS: 0"**  
**WIDTH: 0.75"**  
**RADII: 2.75"**

**NO. Z BARS: 2**  
**LENGTH: 8'-4"**

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

SYMBOL	X	Y	WID	HT
AR_TYPE D	4.5	22.5	6	9
AR_TYPE D	94	4	6	9

**MAT'L: 0.125" (3.2 mm) ALUMINUM**

**DESIGN BY: RLH**      **CHECKED BY: xxx**      **DATE: Aug 13, 2019**  
**PROJECT ID: BR-0036**      **DIV: DIV. 4**



**USE NOTES: 1,2,3**

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

Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter																Series/Size	
		R	O	A	N	O	K	E		R	A	P	I	D	S		Text Length
	17.7	6	6.2	7.2	6.3	6.5	6.1	4.4	6	6	7.2	6.3	2.7	6	4.9	8.2	D 2000/6 82
		W	E	L	D	O	N										D 2000/6 36.1
	35.4	7.5	5.6	5.6	6	6.5	4.8	36.5									
		R	O	C	K	Y		M	O	U	N	T					D 2000/6 66.3
	20	6	6.2	6	5.7	6	6	7.1	6.5	6.3	6	4.4	21.7				

FILENAME: NASH 41 (BR-0036) SPECIAL SIGN DESIGN

NORTH CAROLINA D.O.T. SIGN DETAIL

2/25/2020 9:42:37 AM  
 V:\Asheville\Structures\31748-41 Nash 41 BR-0036\Traffic\Signing\br0036\_rdu\_sign5.dgn  
 User: jcp\lpot

APPROVED: DATE: 3/19/2020 SEAL DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED		<b>SPECIAL SIGN DESIGN</b>
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**SIGN NUMBER: 102**  
**TYPE: B**  
**QUANTITY: 1**  
**SIGN WIDTH: 7'-0"**  
**HEIGHT: 3'-0"**  
**TOTAL AREA: 21.0 Sq.Ft.**  
**BORDER TYPE: FLUSH**  
**RECESS: 0"**  
**WIDTH: 0.75"**  
**RADII: 2.75"**  
**NO. Z BARS: 2**  
**LENGTH: 6'-4"**

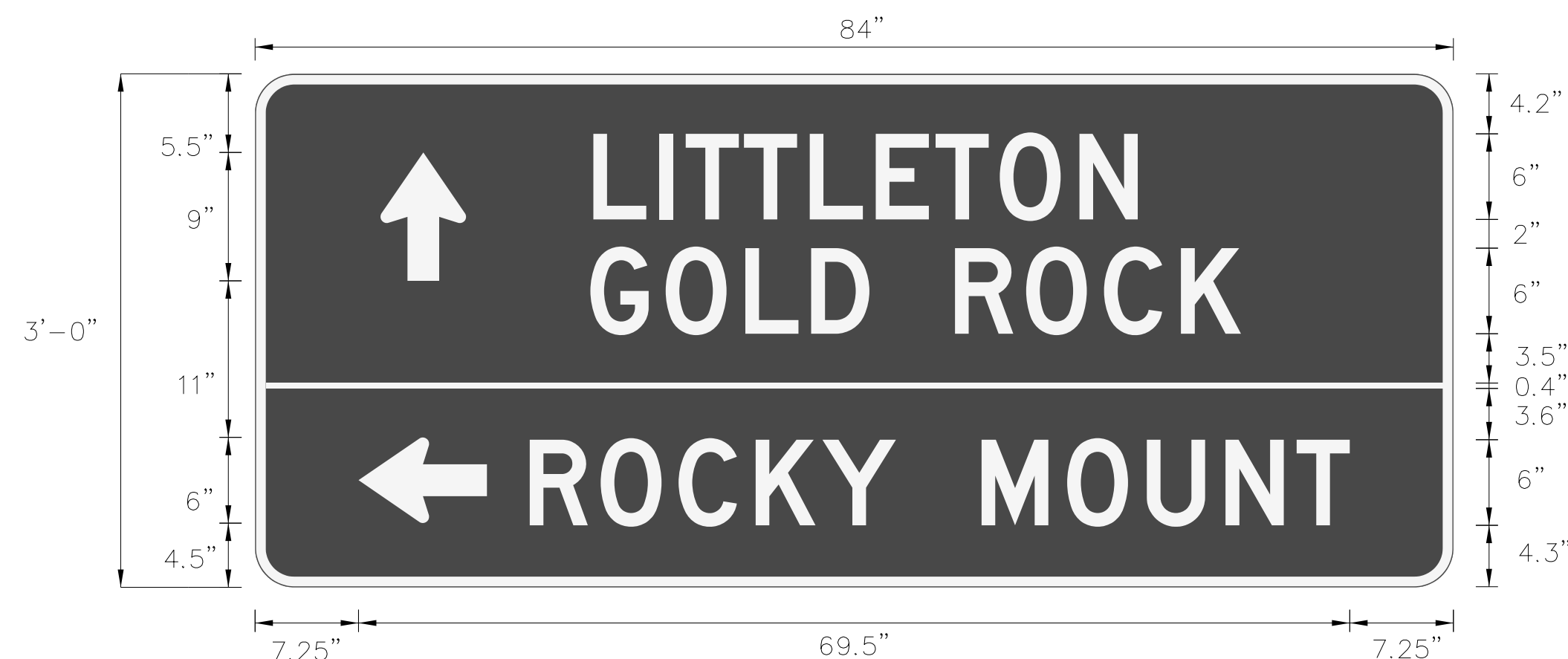
**BACKG COLOR: Green / Green**  
**COPY COLOR: White**

SYMBOL	X	Y	WID	HT
AR_TYPE D	8.8	21.5	6	9
AR_TYPE D	7.3	4.5	6	9

**MAT'L: 0.125" (3.2 mm) ALUMINUM**

**DESIGN BY: RLH**      **CHECKED BY: xxx**      **DATE: Aug 13, 2019**  
**PROJECT ID: BR-0036**      **DIV: DIV. 4**

- USE NOTES: 1,2**
- 1. Legend and border shall be direct applied white reflective sheeting.
  - 2. Background shall be NC grade C reflective sheeting




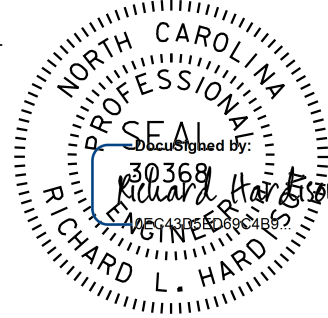
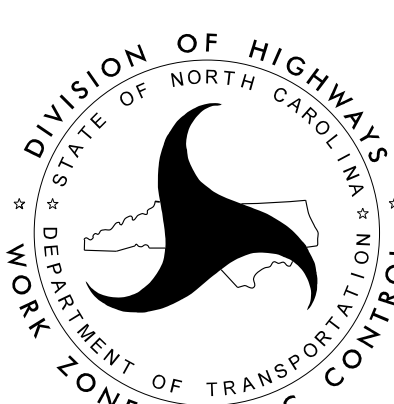
Spacing Factor is 1 unless specified otherwise

**LETTER POSITIONS**

Letter spacings are to start of next letter												Series/Size	
LITTLETON											Text Length		
23.7	4.6	1.9	4.1	4.6	4.6	4.2	4.5	5.6	4.1	22.1			D 2000/6
											38.2		
GOLD ROCK											D 2000/6		
23.5	5.3	5.6	4.6	4.1	6	5	5.5	5.4	4.2	14.9			45.6
ROCKY MOUNT											D 2000/6		
19.3	5	5.5	5.4	4.7	5.2	6	6	5.6	5.5	5	3.7	7.3	57.5

FILENAME: NASH 41 (BR-0036) SPECIAL SIGN DESIGN

NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED:  DATE: 3/19/2020 SEAL		
<p><b>SPECIAL SIGN DESIGN</b></p>		

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

SIGN NUMBER: 103  
 TYPE: B  
 QUANTITY: 1  
 SIGN WIDTH: 9'-0"  
 HEIGHT: 3'-0"  
 TOTAL AREA: 27.0 sq.ft.

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

SYMBOL	X	Y	WID	HT
AR_TYPE D	16.6	24	6	9
AR_TYPE D	6	8.5	6	9

BORDER TYPE: FLUSH  
 RECESS: 0"  
 WIDTH: 0.75"  
 RADII: 2.75"

NO. Z BARS: 2  
 LENGTH: 8'-4"

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3

- Legend and border except those that are colored black) shall be direct applied grade B sheeting
- Background shall be NC grade C reflective sheeting
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable

DESIGN BY: RLH  
 PROJECT ID: BR-0036  
 CHECKED BY: xxx  
 DIV: DIV. 4  
 DATE: Feb 12, 2020



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter																	Series/Size
																	Text Length
	W	H	I	T	A	K	E	R	S								D 2000/6
32.3	7.4	6.5	2.3	4.9	7.1	5.9	5.7	5.9	4.9	25							50.7
	R	O	A	N	O	K	E		R	A	P	I	D	S			D 2000/6
21.5	5.9	5.9	7.1	6.3	6.5	5.9	4.4	6	5.5	7.1	5.9	2.9	6.1	4.9	7.3		80.5
	W	E	L	D	O	N											D 2000/6
35.7	7.4	5.7	5.4	6.1	6.5	4.9	34.6										35.9

FILENAME: NASH 41 (BR-0036) SPECIAL SIGN DESIGN

NORTH CAROLINA D.O.T. SIGN DETAIL

2/25/2020 9:03:34 AM  
 V:\asheville\structures\31748-41 Nash 41 BR-0036\Traffic\Signing\br-0036-rdy\_sign7.dgn  
 User: jphlpot

APPROVED: \_\_\_\_\_  
 DATE: 3/19/2020  
 SEAL

SPECIAL SIGN DESIGN

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

**SIGN NUMBER:** 104  
**TYPE:** B  
**QUANTITY:** 1  
**SIGN WIDTH:** 84"  
**HEIGHT:** 36"  
**TOTAL AREA:** 21.0 Sq.Ft.

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

SYMBOL	X	Y	WID	HT
AR_Type D	9.4	21	6	9
AR_Type D	65.8	4.3	6	9

**BORDER TYPE:** FLUSH  
**RECESS:** 0"  
**WIDTH:** 0.75"  
**RADII:** 2.75"

**NO. Z BARS:** 2  
**LENGTH:** 6'-4"

**MAT'L:** 0.125" (3.2 mm) ALUMINUM

**DESIGN BY:** RLH  
**PROJECT ID:** BR-0036

**CHECKED BY:** xxx  
**DIV:** DIV. 4

**DATE:** FEB 14, 2020



**USE NOTES:** 1,2

- Legend and border shall be direct applied white reflective sheeting.
- Background shall be NC grade C reflective sheeting

Spacing Factor is 1 unless specified otherwise


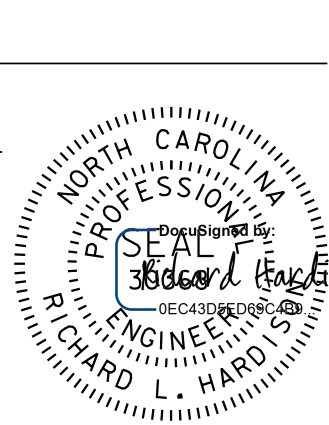
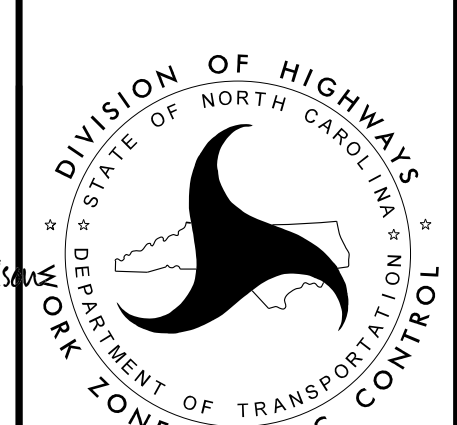
**LETTER POSITIONS**

**Letter spacings are to start of next letter**

	Letter Spacing Data											Series/Size	
	L	I	T	T	L	E	T	O	N				Text Length
	22.7	5.4	2.3	4.9	5.5	5.4	5.1	5.3	6.5	4.9	16.1		D 2000/6 45.2
		G	O	L	D		R	O	C	K			D 2000/6 52
	9.2	7.4	6.5	2.3	4.9	7.1	5.9	5.7	5.9	4.9	24.1		D 2000/6 50.7

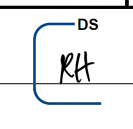

FILENAME: NASH 41 (BR-0036) SPECIAL SIGN DESIGN NORTH CAROLINA D.O.T. SIGN DETAIL

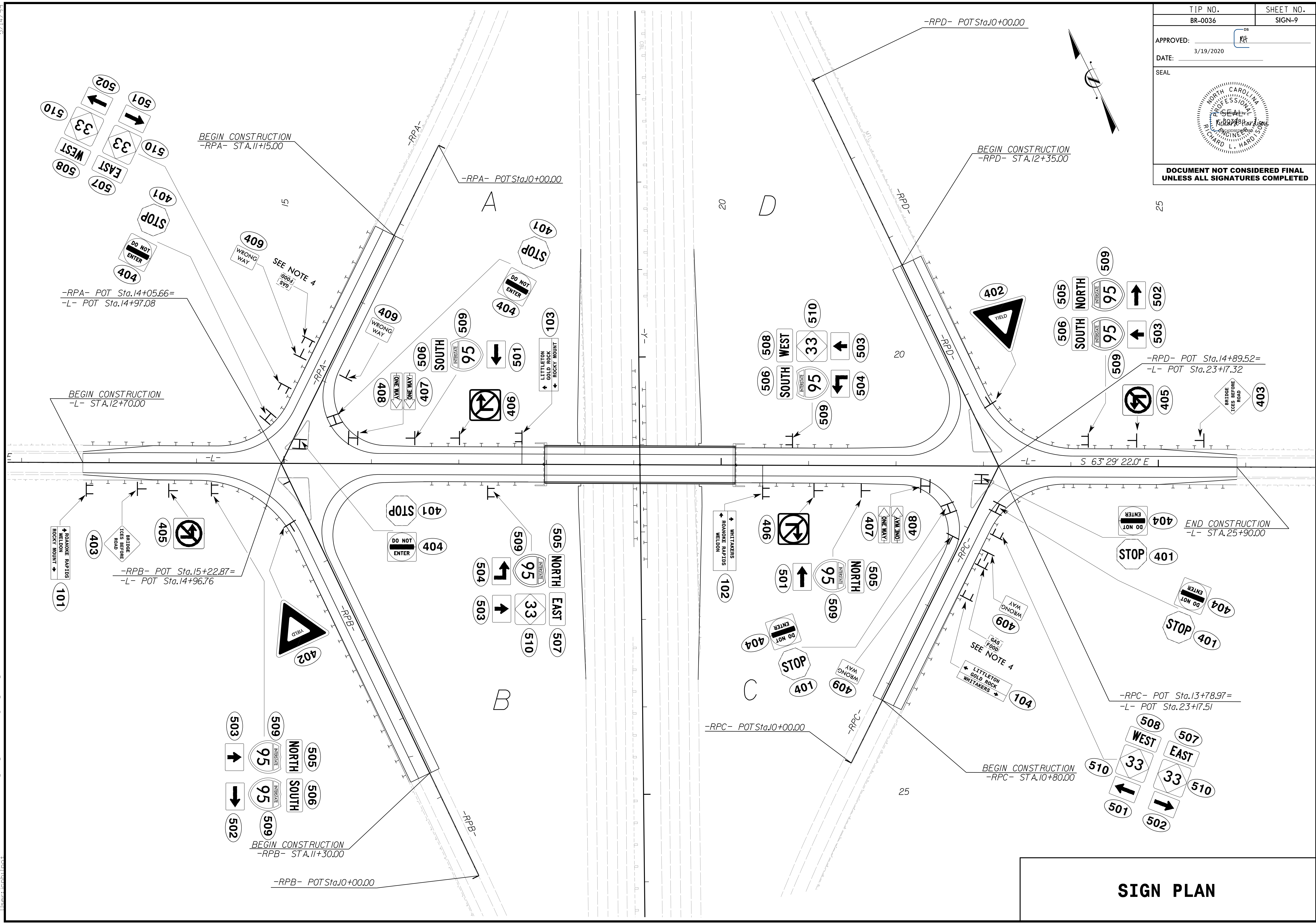
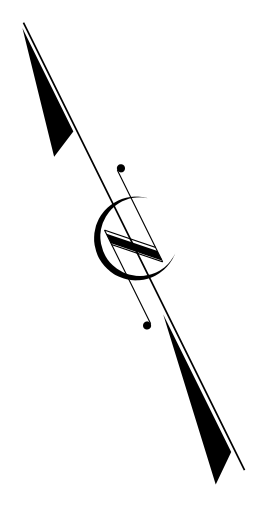
2/25/2020 8:47:13 AM V:\Asheville\structures\31748-41\Nash 41\BR-0036\Traffic\Signing\br0036\_rdy\_sign&.dgn User: jcpilipot

APPROVED:  DATE: 3/19/2020 SEAL			<p><b>SPECIAL SIGN DESIGN</b></p>
<p><b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b></p>			



5/14/20

TIP NO. BR-0036	SHEET NO. SIGN-9
APPROVED: 	
DATE: 3/19/2020	
SEAL	
	
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# SIGN PLAN

2/25/2020 10:41:49 AM C:\Users\jbr0036\Documents\Signing\br-0036-rdy-sign-9.dgn