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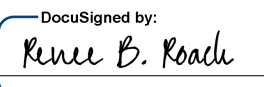

**T.I.P.: I-5950**

**CONTRACT:**

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
DAVIDSON COUNTY**

**LOCATION: I-85 NORTH OF BUS. I-85 (M.P.87.77) TO  
SOUTH OF E. HOLLY GROVE ROAD (M.P. 96.61)**

PROJECT REFERENCE NO. <b>I-5950</b>	SHEET NO. <b>SIGN-1</b>
APPROVED:  <small>DocuSigned by: Renee B. Roach 3EB4308D316431...</small>	
DATE: 06/29/2022	
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
901.10	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
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING

**GENERAL NOTES**

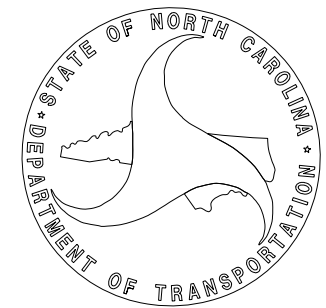
- SIGNS FURNISHED BY STATE
- CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- THIS PROJECT IS INSTALLING NEW SIGNS ON EXISTING SUPPORTS.
- WHEN EXISTING SIGNS ARE REMOVED AND PROPOSED SIGNS ARE INSTALLED ON EXISTING SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.

**SUMMARY OF QUANTITIES**

ITEM NO.	ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.		
4110000000	904	12	EA.
4110000000	904	8	EA.
4236000000	907	20	EA.


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

KELVIN JORDAN SIGNING & DELINEATION REGIONAL ENGINEER  
ERIC WARD SIGNING & DELINEATION PROJECT DESIGN ENGINEER



**INDEX**

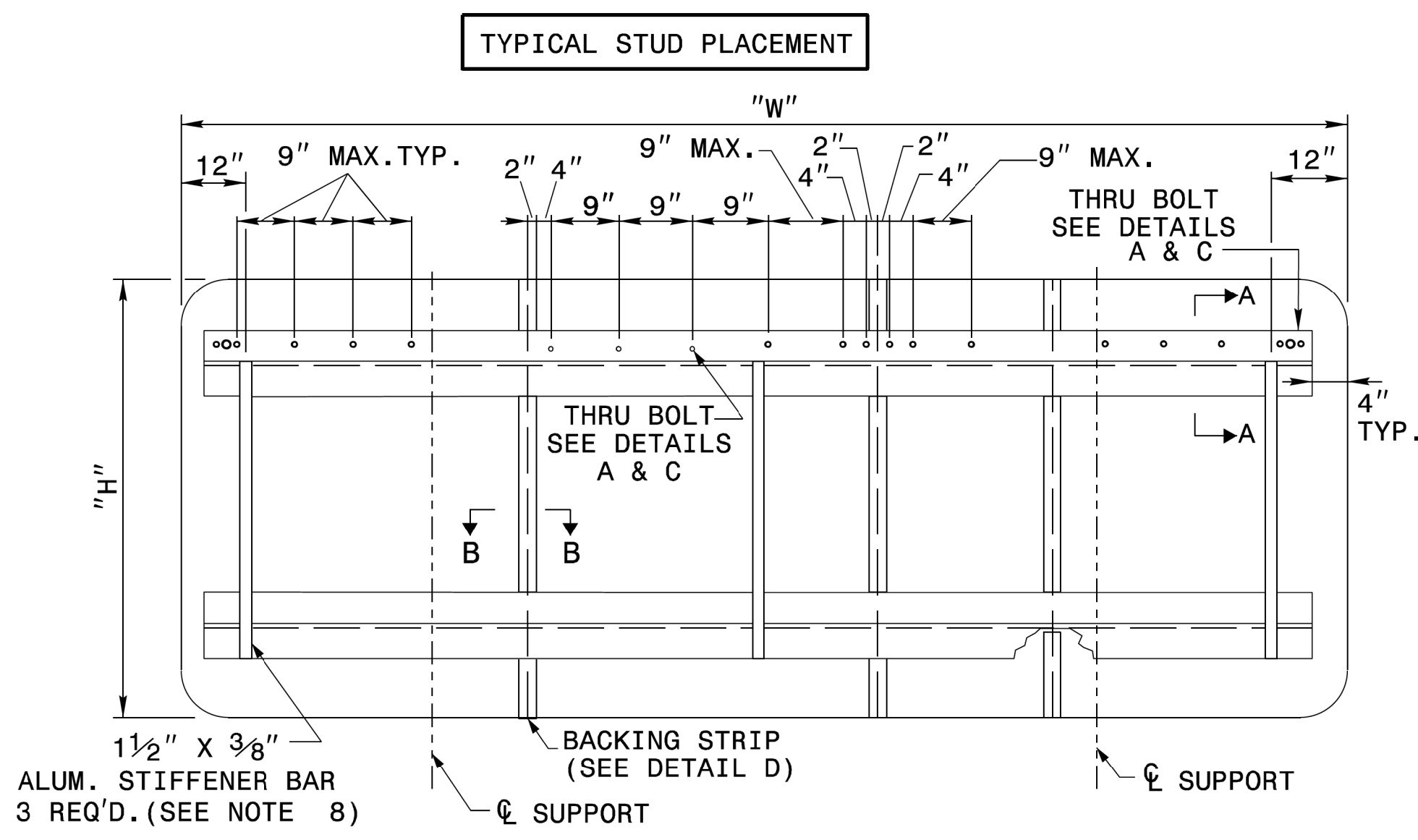
SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2A & 2B	REVISED ROADWAY STANDARD DRAWINGS
SIGN-3A & 3B	SIGN DESIGNS
SIGN-4 & 5	SIGNING PLAN SHEETS

TIP NO. I-5950	SHEET NO. SIGN-2A
DocuSigned by: <i>Matthew V. Springer</i>	
APPROVED: 3/21/2019	
DATE: BC60F6E8B584403...	
SEAL	
	

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

2-19

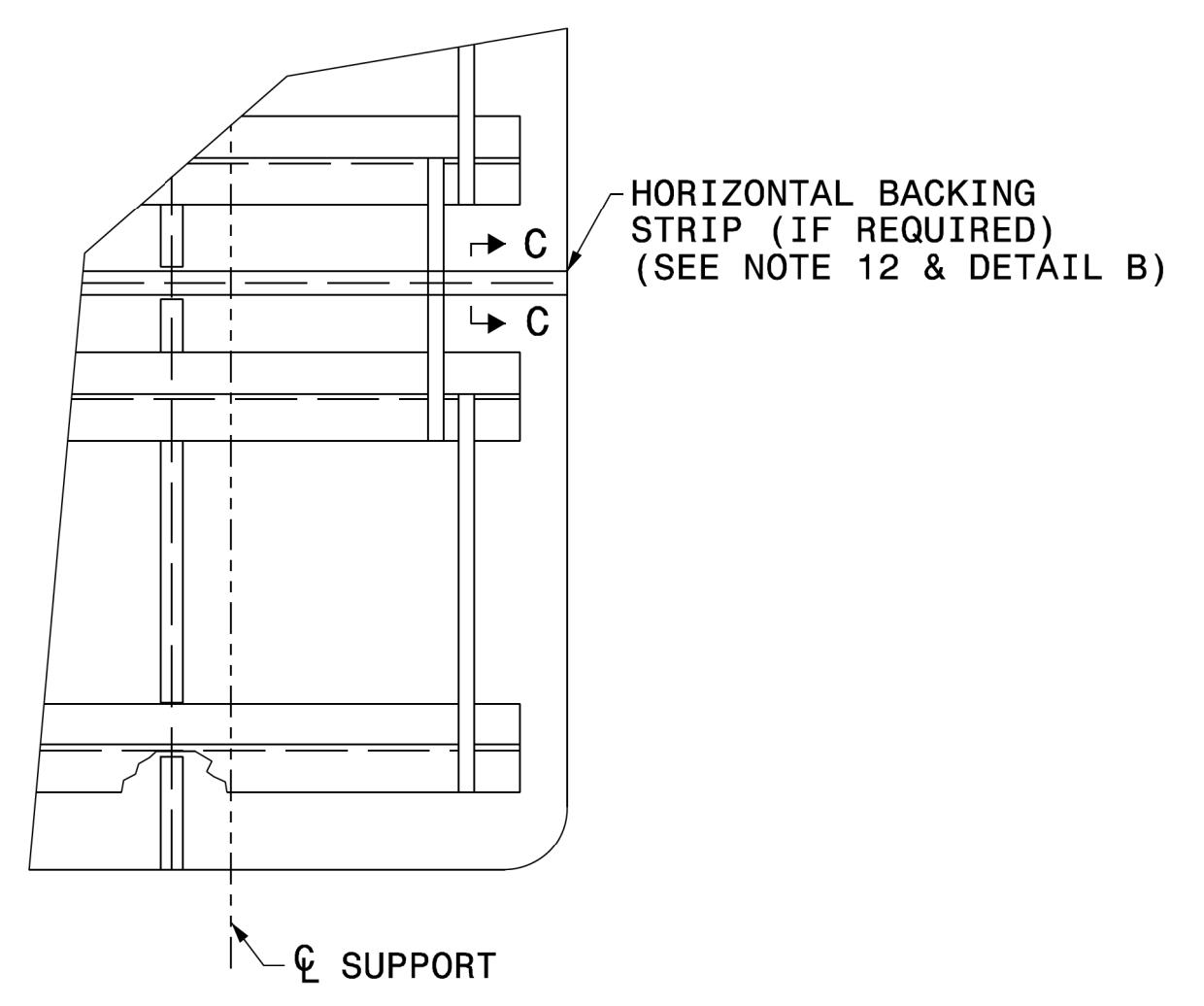
ENGLISH DETAIL DRAWING FOR  
**TYPE 'A' SIGNS**  
WELDED STUD CONSTRUCTION



NOTES:

1. USE THE NUMBER AND SIZE OF SUPPORTS SHOWN ON THE SUPPORT CHART IN PROJECT PLANS.
2. FABRICATE SIGN PANEL SECTIONS WITH SHEETS 4'-0" WIDE. WHEN FABRICATING SIGNS WHICH ARE NOT MULTIPLES OF 4'-0" IN WIDTH, DO NOT CUT MORE THAN TWO SHEETS TO LESS THAN 4'-0" IN WIDTH. THESE PANELS SHALL NOT BE LESS THAN 1'-0" IN WIDTH.
3. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, FOR TYPE OF MATERIAL TO BE USED FOR SIGN PANELS, HANGER ASSEMBLIES, AND SUPPORTS.
4. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS.
5. SEE ROADWAY STANDARD 904.20 WHEN TYPE "B" SECONDARY SIGN MOUNTING IS REQUIRED.
6. DETAILS FOR TYPE "A" SECONDARY SIGNS SHALL BE THE SAME AS FOR TYPE "A" SIGNS.
7. THE VERTICAL DIMENSION BETWEEN PRIMARY AND SECONDARY SIGNS IS TWO (2) INCHES.
8. ADJUST STIFFENERS TO AVOID CONFLICT WITH SUPPORTS.
9. SEE ROADWAY STANDARD 901.70 FOR SUPPORT AND "Z" BAR SPACING.
10. FABRICATE SIGNS TALLER THAN 12'-0" AS TWO SEPARATE SIGNS WITH A HORIZONTAL SPLICE. LOCATE STRINGERS ON EACH SECTION OF THE SIGN BY THE SIGN STRINGER CHART. (SEE ROADWAY STANDARD 901.70)
11. FABRICATE SIGNS TALLER THAN 12'-0" BUT SHORTER THAN 14'-6" WITH A HORIZONTAL SPLICE LOCATED 7'-0" FROM BOTTOM OF SIGN.
12. FABRICATE SIGNS 14'-6" TALL AND TALLER WITH A HORIZONTAL SPLICE. LOCATE THE SPLICE AT LEAST HALF OF THE SIGN HEIGHT FROM THE BOTTOM AND AT LEAST 7'-0" FROM THE TOP.
13. THERE SHALL ONLY BE A 1/8" GAP BETWEEN THE VERTICAL BACKING STRIP AND THE "Z" BAR.
14. SEE ROADWAY STANDARD 901.80 FOR DETAILS SHOWING SIGN MOUNTING TO SUPPORTS.
15. PLACE NYLON WASHER UNDER HEAD OF 3/8" THRU BOLTS.
16. FABRICATE EACH SIGN WITH 3/8" DIA. THRU BOLT, 4" FROM EACH END OF EACH "Z" BAR THRU SIGN PANEL AND "Z" BAR. SEE DETAILS A & C.
17. FABRICATE EACH SIGN WITH 3/8" DIA. THRU BOLT CENTERED IN EACH PANEL THRU THE TOP AND BOTTOM "Z" BAR. CENTERED THRU BOLT REQUIRED IN END PANELS GREATER THAN 2'-0" WIDE. SEE DETAILS A & C.
18. THRU BOLTS WILL HAVE A MINIMUM 1/16" TO MAXIMUM 1/8" GAP

HORIZONTAL BACKING STRIP



SHEET 1 OF 2

901D10

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


2-19

ENGLISH DETAIL DRAWING FOR  
**TYPE 'A' SIGNS**  
WELDED STUD CONSTRUCTION

SHEET 1 OF 2

901D10

REVISED SIGNING  
ROADWAY STANDARD DRAWING

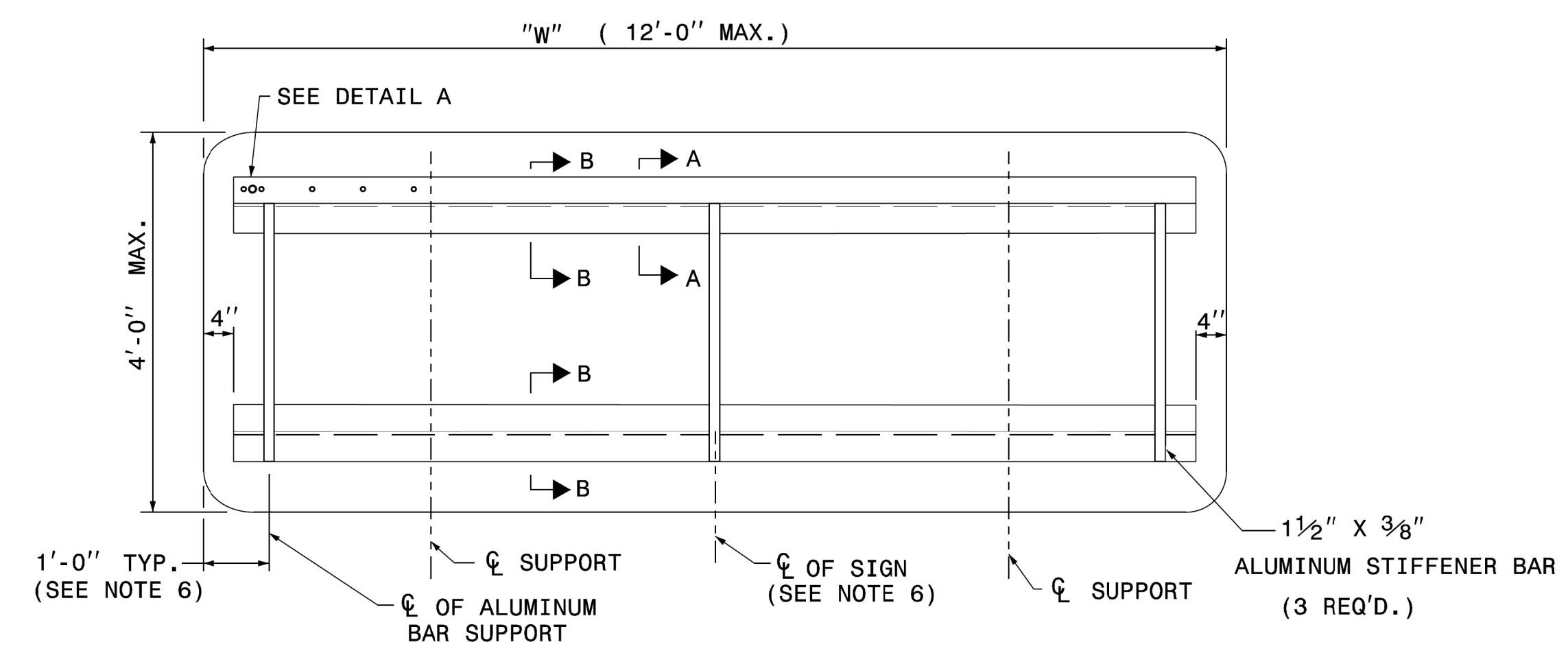
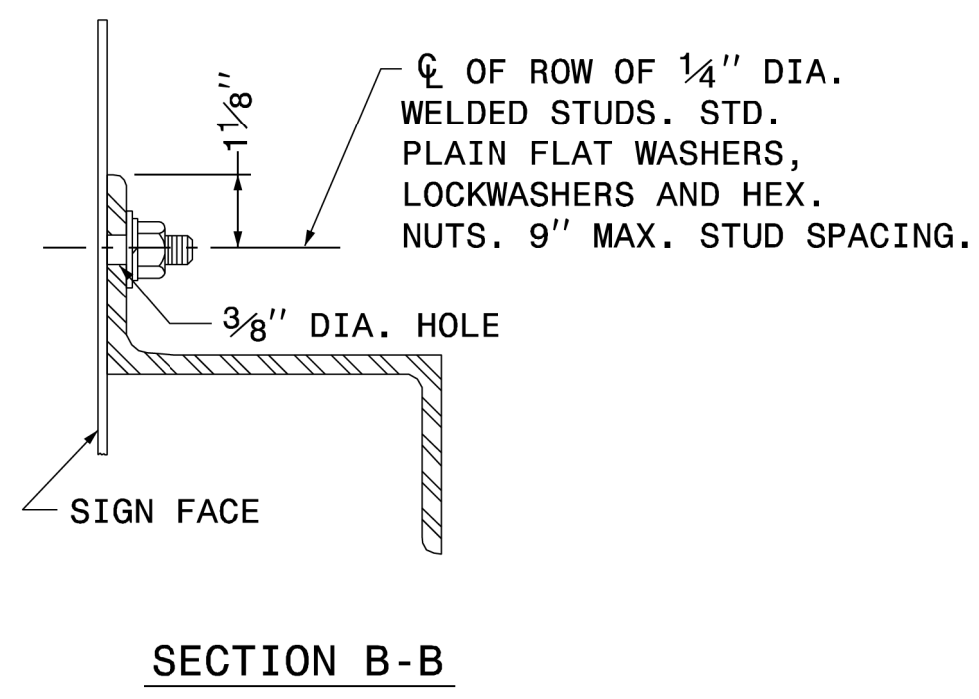
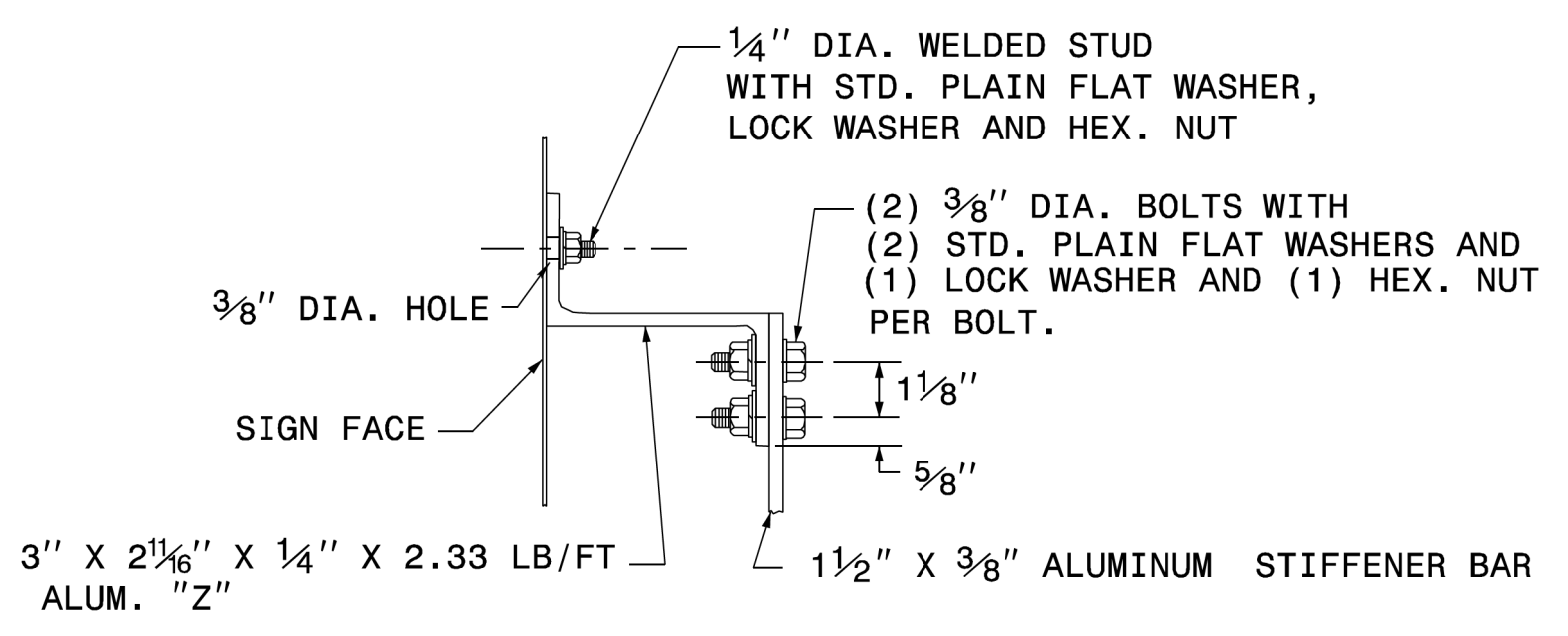
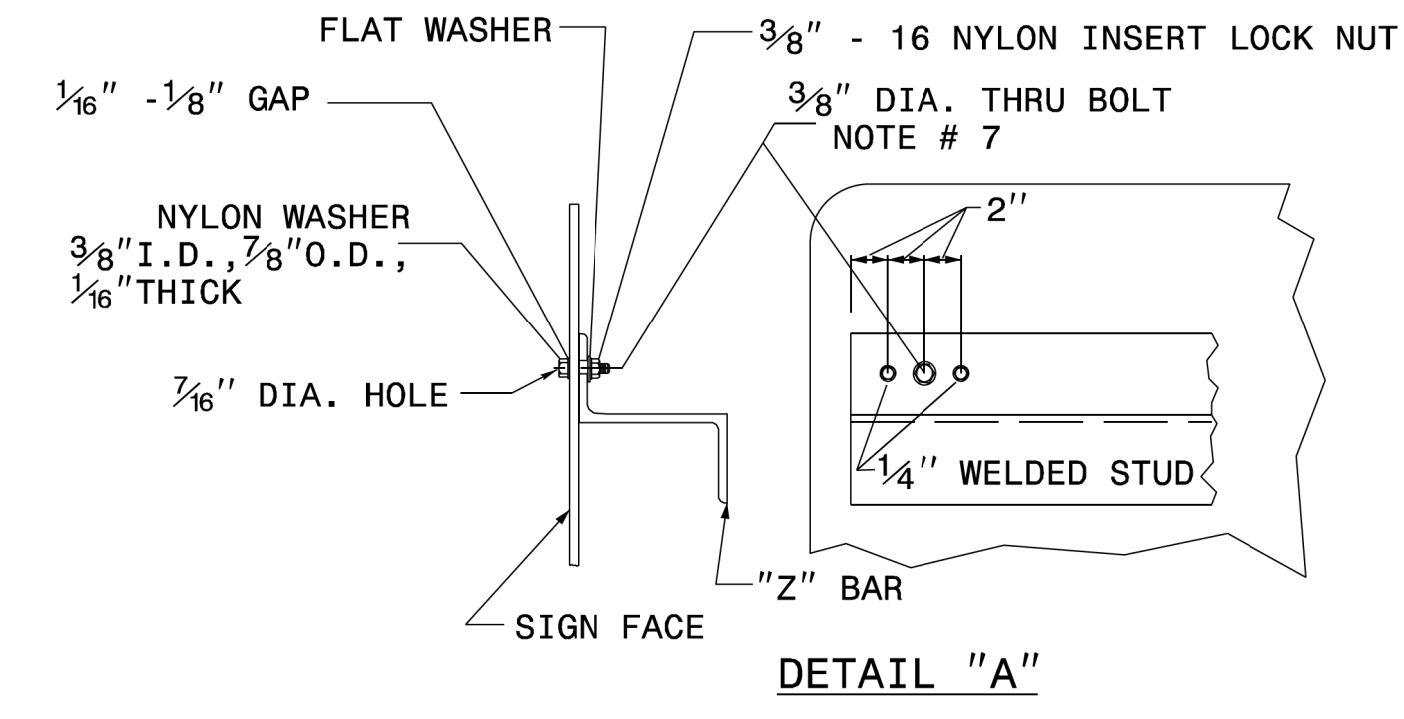
TIP NO. I-5950	SHEET NO. SIGN-2B
DocuSigned by: Matthew V. Springer	
APPROVED: 3/21/2019	
DATE: BC60F8E8B584403...	
SEAL	
	

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

2-19

ENGLISH DETAIL DRAWING FOR  
**TYPE 'B' SIGNS**  
WELDED STUD CONSTRUCTION

SHEET 1 OF 1  
**901D20**



- NOTES:
1. USE NUMBER AND SIZE OF SUPPORTS SHOWN ON SUPPORT CHART IN PROJECT PLAN SHEETS.
  2. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR THE TYPE OF MATERIAL TO BE USED FOR SIGN PANELS, HANGER ASSEMBLIES AND SUPPORTS.
  3. FURNISH ALL MOUNTING HARDWARE.
  4. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS.
  5. THE VERTICAL DIMENSION BETWEEN PRIMARY AND SECONDARY SIGNS IS TWO (2) INCHES.
  6. ADJUST STIFFENERS TO AVOID CONFLICT WITH SUPPORTS.
  7. FABRICATE EACH SIGN WITH A 3/8" DIA. BOLT 4" FROM EACH END OF EACH "Z" BAR THRU SIGN PANEL AND "Z" BAR.
  8. SEE ROADWAY STANDARD 901.70 FOR SUPPORT AND "Z" BAR SPACING.
  9. SEE ROADWAY STANDARD 901.80 FOR DETAILS SHOWING SIGN MOUNTING TO SUPPORTS.
  10. PLACE NYLON WASHER UNDER HEAD OF 3/8" THRU BOLT.
  11. THRU BOLTS WILL HAVE A MINIMUM 1/16" TO MAXIMUM 1/8" GAP.

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

2-19

ENGLISH DETAIL DRAWING FOR  
**TYPE 'B' SIGNS**  
WELDED STUD CONSTRUCTION

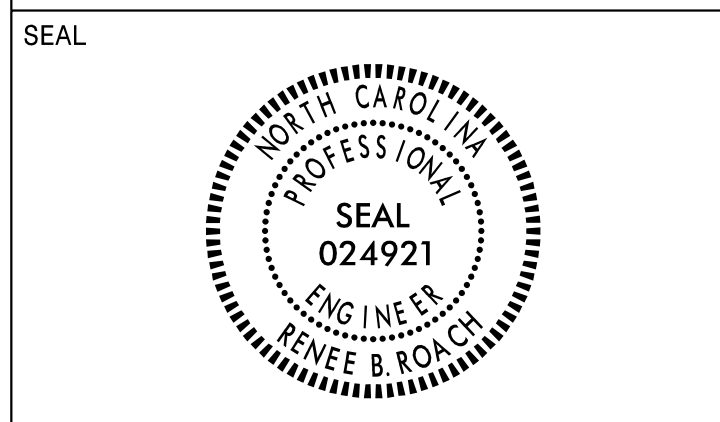
SHEET 1 OF 1  
**901D20**

**REVISED SIGNING  
ROADWAY STANDARD DRAWING**

03/20/19 S:\S&DU\Standards Group\Standards and Drawings\Drawings\2018 Standard Dwgs\Division 9 Final\0901D20-sgn\_type b sign\_2-19.dgn User:dstokes

3-14-19

APPROVED: *Renee B. Roach*  
 DATE: 06/29/2022



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

SIGN NUMBER: 701A,702A TYPE: A BACKG COLOR: Green COPY COLOR: White QUANTITY: 2  
 SIGN WIDTH: 15'-6" HEIGHT: 13'-0" TOTAL AREA: 201.5 Sq.Ft.  
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12"  
 NO. Z BARS: 4 LENGTH: 178.0  
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: E WARD CHECKED BY: LOCATION: Oct 13, 2021 DIV: 9  
 PROJECT ID: I-5950

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	124.6
EM 2000	140.2

FILENAME: I-5950 Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 705A,706A TYPE: A BACKG COLOR: Green COPY COLOR: White QUANTITY: 2  
 SIGN WIDTH: 13'-6" HEIGHT: 6'-6" TOTAL AREA: 87.8 Sq.Ft.  
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 9"  
 NO. Z BARS: 2 LENGTH: 154.0  
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: E WARD CHECKED BY: LOCATION: Oct 13, 2021 DIV: 9  
 PROJECT ID: I-5950

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	128.8

FILENAME: I-5950 Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 703A,704A TYPE: A BACKG COLOR: Green COPY COLOR: White QUANTITY: 2  
 SIGN WIDTH: 15'-6" HEIGHT: 9'-0" TOTAL AREA: 139.5 Sq.Ft.  
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12"  
 NO. Z BARS: 3 LENGTH: 178.0  
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: E WARD CHECKED BY: LOCATION: Oct 13, 2021 DIV: 9  
 PROJECT ID: I-5950

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	124.6
EM 2000	140.2
E 2000	52.6

FILENAME: I-5950 Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 707A,708A TYPE: A BACKG COLOR: Green COPY COLOR: White QUANTITY: 2  
 SIGN WIDTH: 14'-6" HEIGHT: 5'-6" TOTAL AREA: 79.8 Sq.Ft.  
 BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 9"  
 NO. Z BARS: 2 LENGTH: 166.0  
 MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: E WARD CHECKED BY: LOCATION: Oct 13, 2021 DIV: 9  
 PROJECT ID: I-5950

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

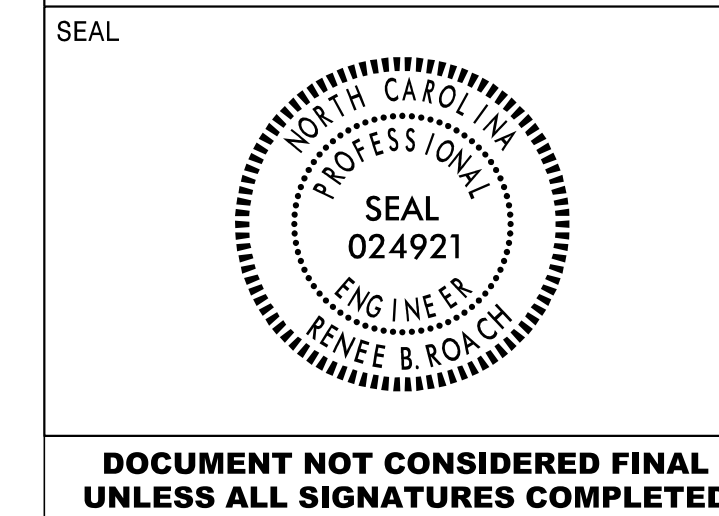
Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	128.8
E 2000	52.6

FILENAME: I-5950 Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

06/28/22 S:\S&U\Western Region\Div 9\I-5950\I-5950 Guidesign.dgn User:ereward

APPROVED: *Renee B. Roach*  
DocuSigned by:  
3EB4360B0316431  
DATE: 06/29/2022



SIGN NUMBER: 7018,7028,7038,7048 BACKG COLOR: Green  
TYPE: B COPY COLOR: White  
QUANTITY: 4  
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  
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: E WARD CHECKED BY: Oct 13, 2021  
PROJECT ID: I-5950 LOCATION: DIV: 9

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size
	E	X	I	T						Text Length
	24.1	9.2	11.1	3.8	7.5	58.3				E 2000
		9	1							31.6
										E 2000
	70.7	14.7	4.5	24.1						19.2

FILENAME: I-5950 Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 705B,706B,707B,708B BACKG COLOR: Green  
TYPE: B COPY COLOR: White  
QUANTITY: 4  
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  
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: E WARD CHECKED BY: Oct 13, 2021  
PROJECT ID: I-5950 LOCATION: DIV: 9

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size
	E	X	I	T						Text Length
	19.7	9.2	11.1	3.8	7.5	62.6				E 2000
		9	4							31.6
										E 2000
	66.4	13.8	14.1	19.7						27.9

FILENAME: I-5950 Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 709,710 BACKG COLOR: Green  
TYPE: A COPY COLOR: White  
QUANTITY: 2  
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  
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: E WARD CHECKED BY: Oct 13, 2021  
PROJECT ID: I-5950 LOCATION: DIV: 9

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size
	E	X	I	T						Text Length
	19.5	12.8	15.8	6.8	9	14.1				E 2000
		9	1							44.4
										E 2000
	12.5	17.6	5.4	42.5						23

FILENAME: I-5950 Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 711,712 BACKG COLOR: Green  
TYPE: A COPY COLOR: White  
QUANTITY: 2  
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  
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: E WARD CHECKED BY: Oct 13, 2021  
PROJECT ID: I-5950 LOCATION: DIV: 9

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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

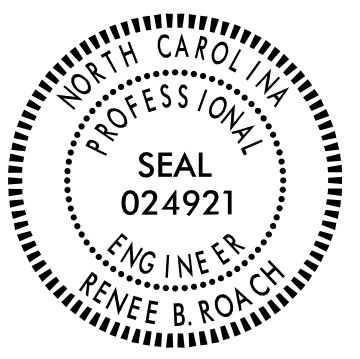
Letter spacings are to start of next letter										Series/Size
	E	X	I	T						Text Length
	19.5	12.8	15.8	6.8	9	14.1				E 2000
		9	4							44.4
										E 2000
	8	16.6	16.9	36.5						33.5

FILENAME: I-5950 Guidesign NORTH CAROLINA D.O.T. SIGN DETAIL

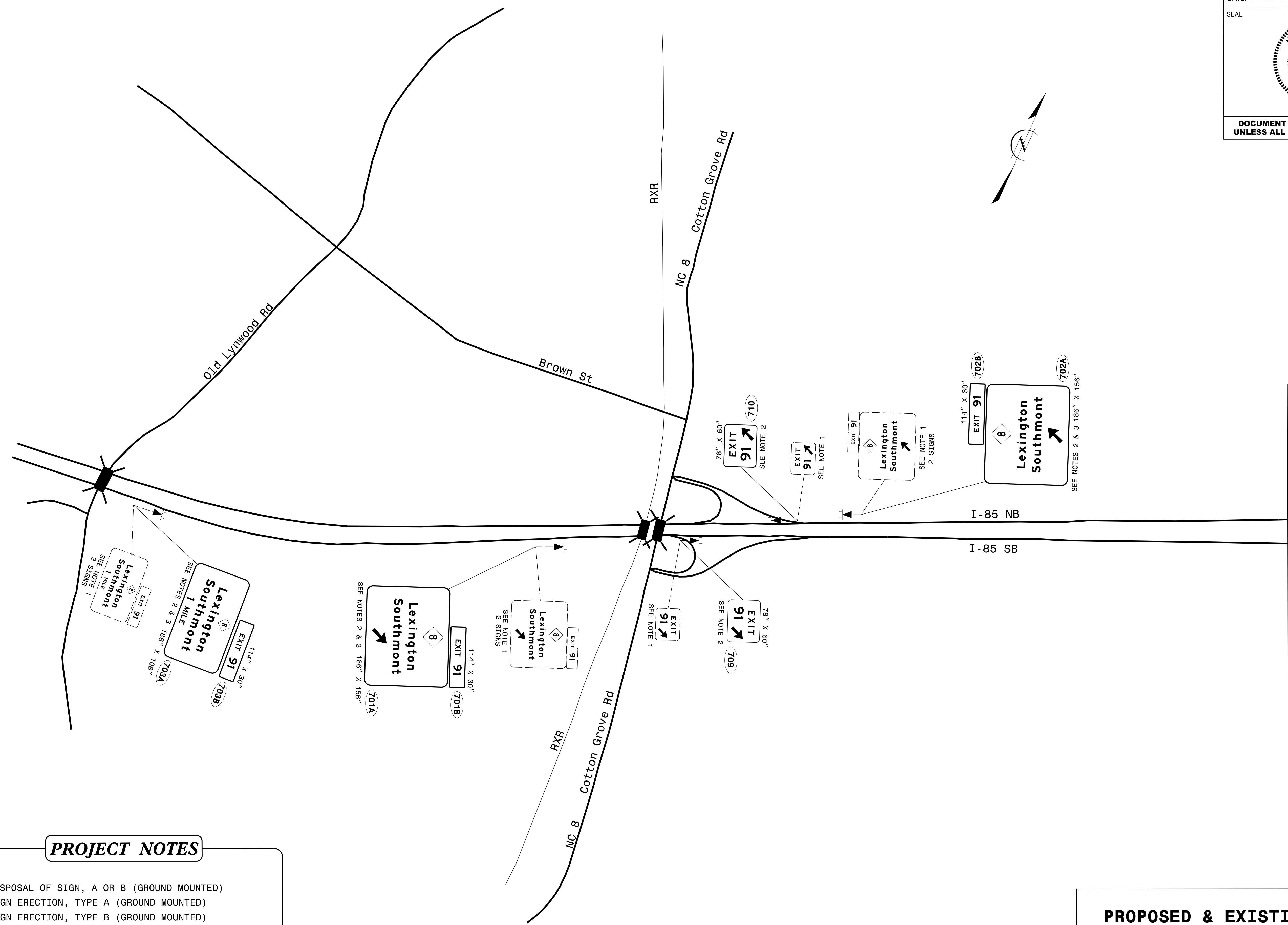
**TYPE A & B SIGN DESIGNS**

06/28/22 S:\S&DU\Western Region\Div 9\I-5950\I-5950 Guidesign.dgn User:ereward

APPROVED: *Renee B. Roach*  
DATE: 06/29/2022



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MATCHLINE SEE SHEET SIGN-5

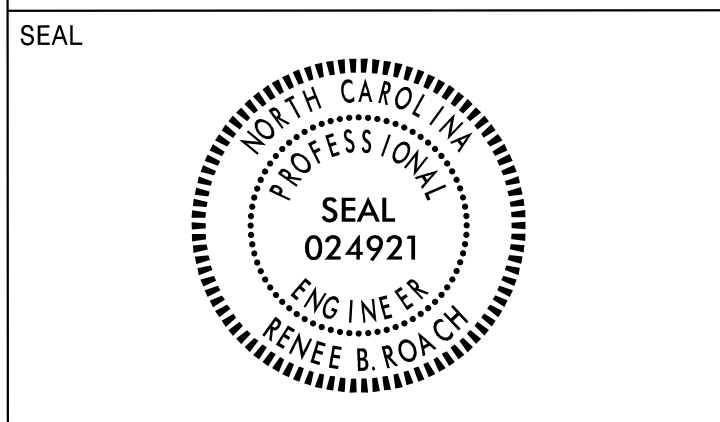
**PROJECT NOTES**

- 1 DISPOSAL OF SIGN, A OR B (GROUND MOUNTED)
- 2 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 3 SIGN ERECTION, TYPE B (GROUND MOUNTED)

**PROPOSED & EXISTING SIGNS  
I-85/NC-8**

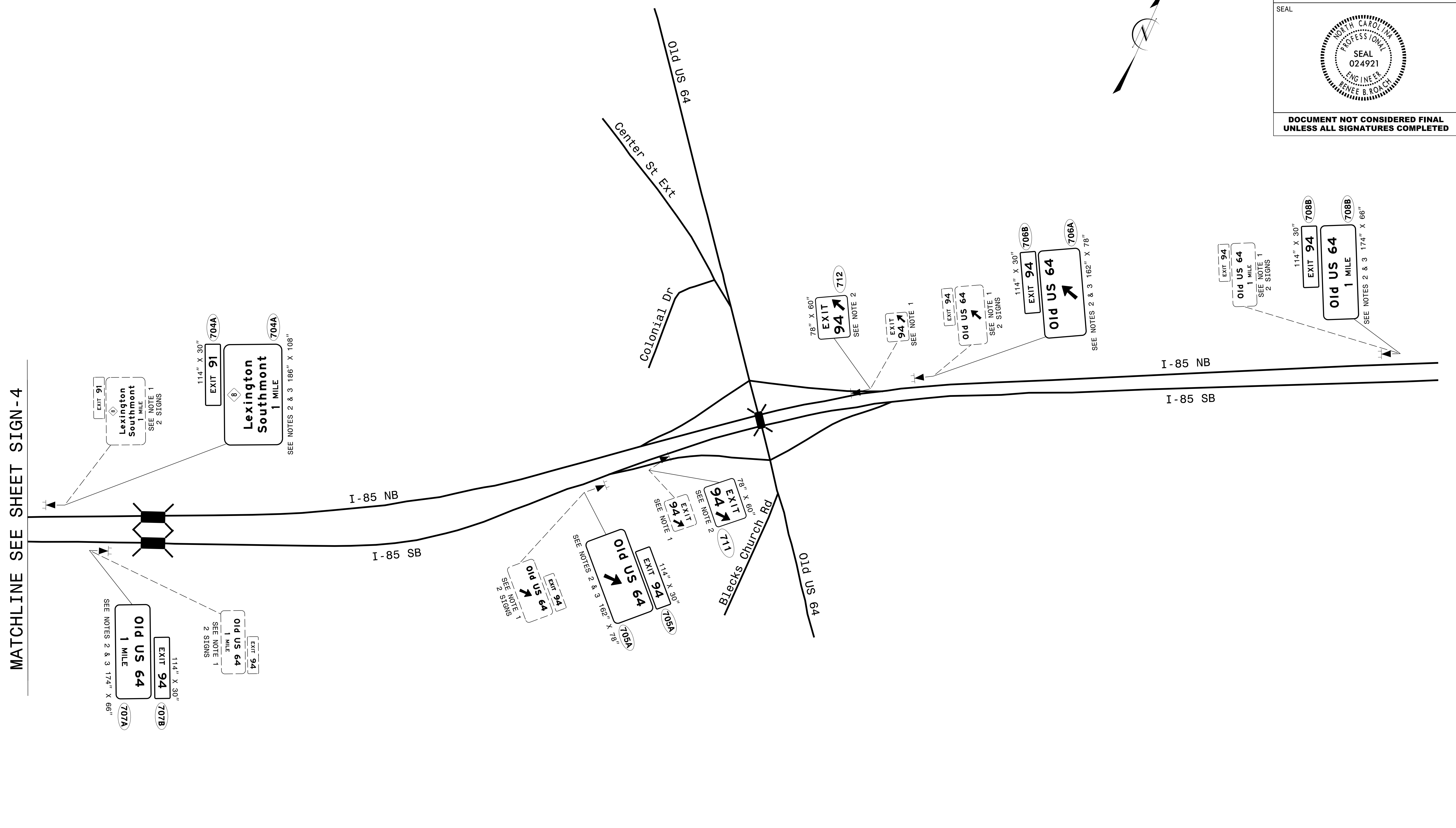
06/28/22  
S:\S&DU\Western Region\Div 9\I-5950\I-5950 Sign 3.dgn  
User:rlward

APPROVED: *Renee B. Roach*  
3EB4366D316431...  
 DATE: 06/29/2022



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

MATCHLINE SEE SHEET SIGN-4



**PROJECT NOTES**

- 1 DISPOSAL OF SIGN, A OR B (GROUND MOUNTED)
- 2 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 3 SIGN ERECTION, TYPE B (GROUND MOUNTED)

**PROPOSED & EXISTING SIGNS  
 I-85/OLD US-64**