

T.I.P.: R-3833C

CONTRACT NO.: C204852

**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
IREDELL COUNTY**

**LOCATION: SR 1100 (BRAWLEY SCHOOL RD) FROM SR 1116 (TALBERT RD) TO 1000 FT EAST OF US 21**

**ROADWAY STANDARD DRAWINGS**

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 (SEE SHEET 1A FOR SHEET 1 OF 2)
901.20	TYPE 'B' SIGNS (SEE SHEET 1B)
901.50	ARROWS AND SHIELDS
901.70	SIGN STRINGERS AND SUPPORT SPACING
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.30	SUPPLEMENTAL SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS
910.30	SIGNING SUPERSTREET
910.50	SIGNING FOR SPEED REDUCTION ZONE

**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.
- . 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.
- . 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.
- . 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.

**SUMMARY OF QUANTITIES**

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4057000000	SP	OVERHEAD FOOTING.....	125	CY
4072000000	903	SUPPORTS, 3-LB STEEL U-CHANNEL.....	2,500	LF
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT -L- STA 60+25.....	1	LS
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT -L- STA 65+25.....	1	LS
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT -Y- STA 40+63.....	1	LS
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT -Y- STA 40+38.....	1	LS
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT -Y- STA 32+25.....	1	LS
4082100000	906	SUPPORTS, OVERHEAD SIGN STRUCTURE AT -Y- STA 32+00.....	1	LS
4102000000	904	SIGN ERECTION, TYPE E.....	149	EA
4108000000	904	SIGN ERECTION, TYPE F.....	8	EA
4116100000	904	SIGN ERECTION, RELOCATE TYPE B (GROUND MOUNTED).....	1	EA
4116100000	904	SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED).....	2	EA
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL.....	46	EA
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL.....	2	EA

**INDEX**


SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-1A-1B	REVISED ROADWAY STANDARD DRAWINGS
SIGN-2-2E	OVERHEAD DETAIL
SIGN-3-3C	SIGN DESIGNS
SIGN-4	TYPE 'E' SIGNS
SIGN-5	TYPE 'F' SIGNS
SIGN-6-11	SIGNING PLAN SHEETS

**PLAN PREPARED BY:**

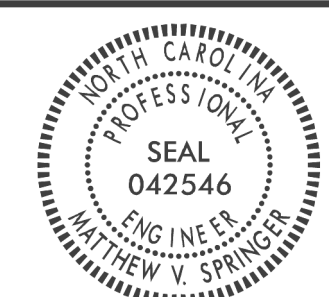
**BETSY L. WATSON, P.E.** SENIOR TRANSPORTATION ENGINEER  
**ROSI R. HENNEIN** TRANSPORTATION DESIGNER



Stantec Consulting Services Inc.  
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Raleigh, NC 27606  
Tel. (919) 851-6866  
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License No. F-0672

TIP NO. R-3833C	SHEET NO. SIGN-1
APPROVED: <i>Betsy L. Watson</i> <small>DESIGNED BY: BSET7834F8743F</small>	
DATE: 8/24/2023	
SEAL 	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	

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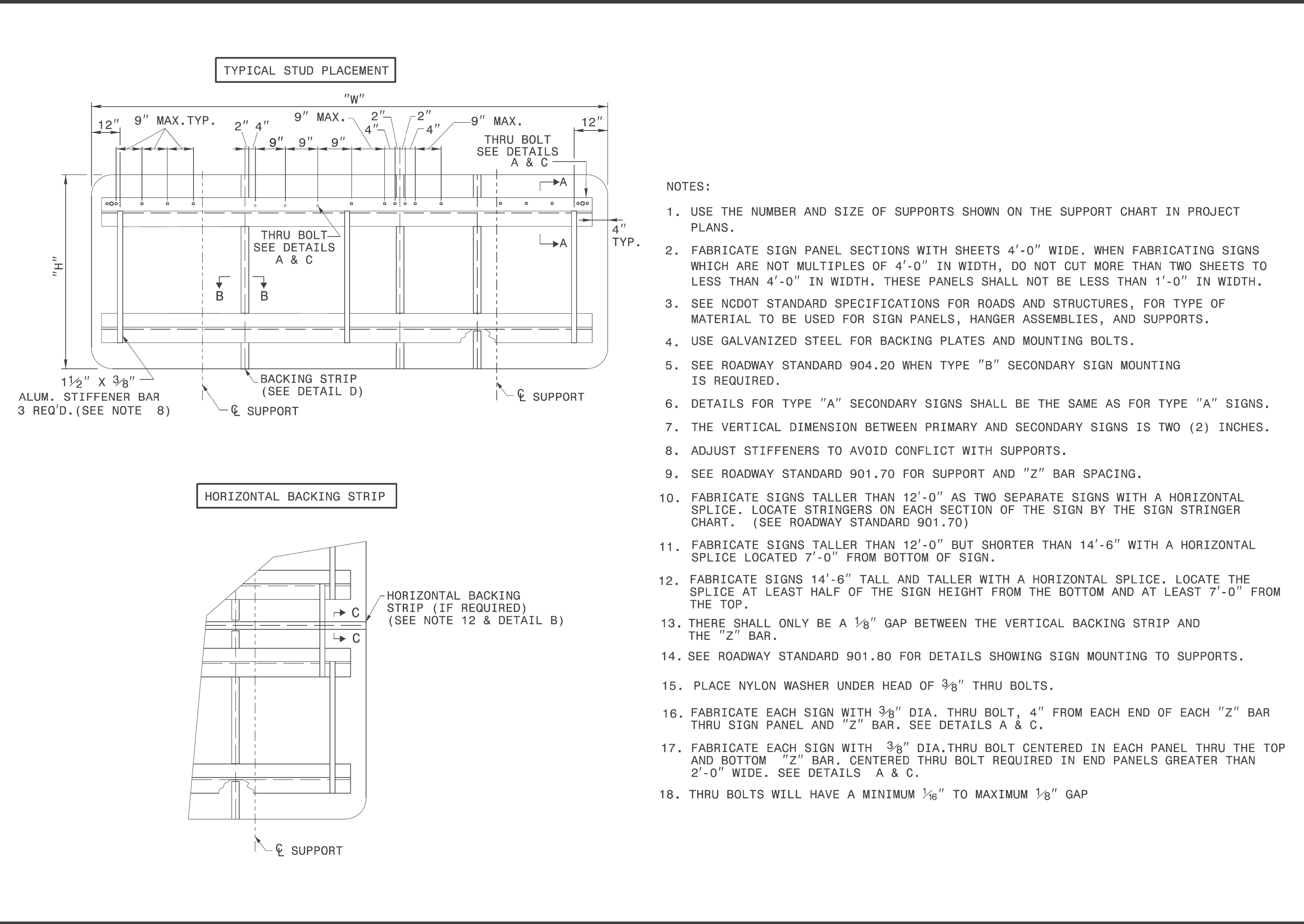
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DocuSigned by:	
<i>Matthew V. Springer</i>	
APPROVED:	3/21/2019
DATE:	BC60F6E8B584403...
SEAL	
	

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

SHEET 1 OF 2  
901D10



- 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

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

SHEET 1 OF 2  
901D10


**REVISED SIGNING  
ROADWAY STANDARD DRAWING**

REVISED ROADWAY STANDARD DRAWING  
901.10 SHEET 1 OF 2

\$\$\$\$\$SYTIME\$\$\$\$\$  
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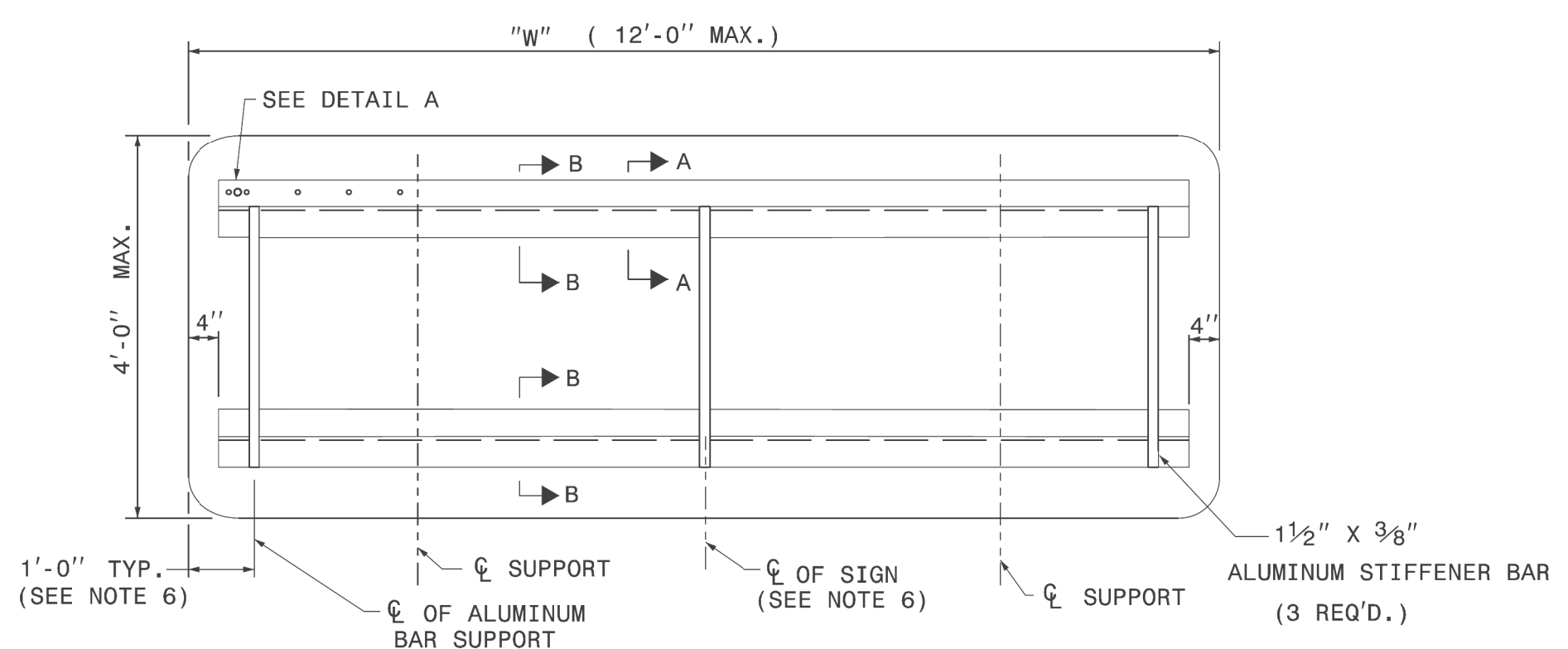
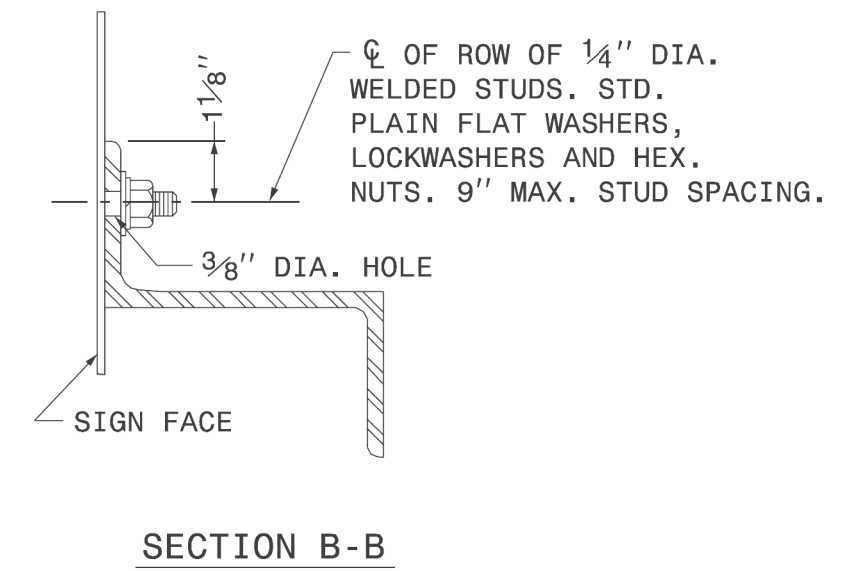
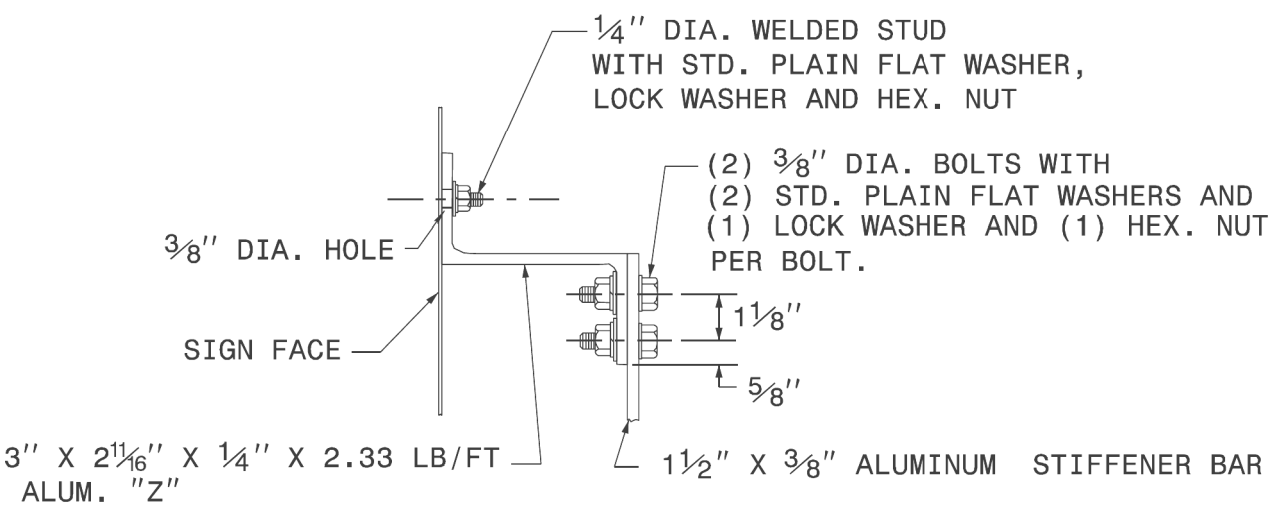
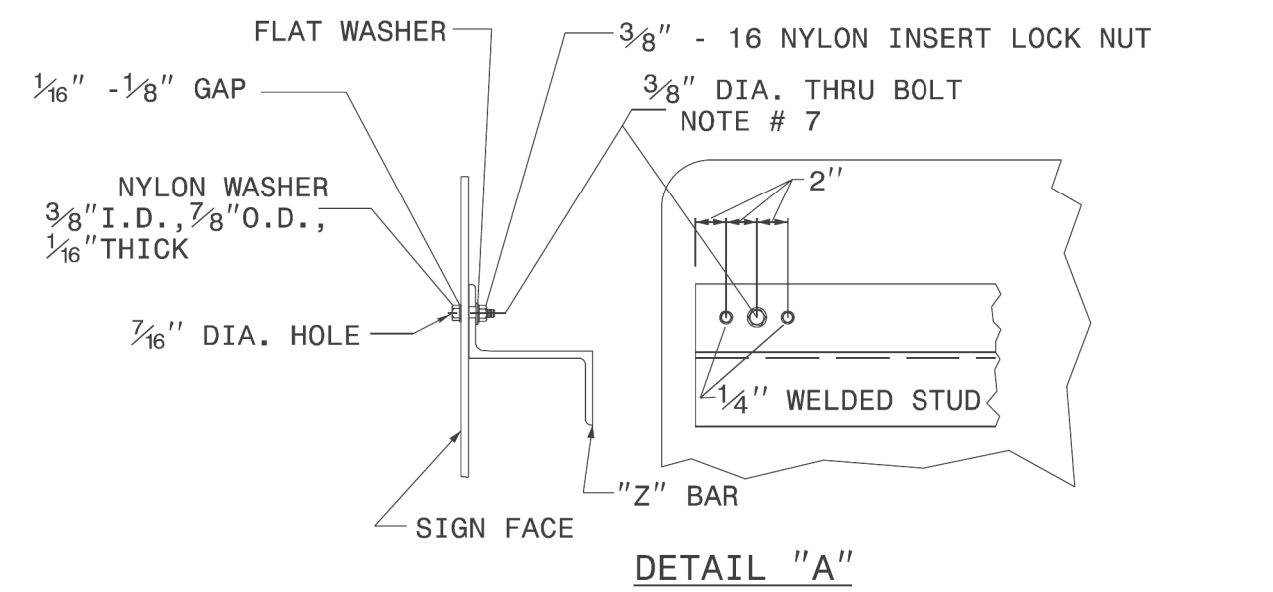
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DocuSigned by:	
APPROVED:	<i>Matthew V. Springer</i>
DATE:	3/21/2019
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STATE OF NORTH CAROLINA  
DEPT. OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.

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.

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RALEIGH, N.C.

2-19

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

SHEET 1 OF 1  
**901D20**

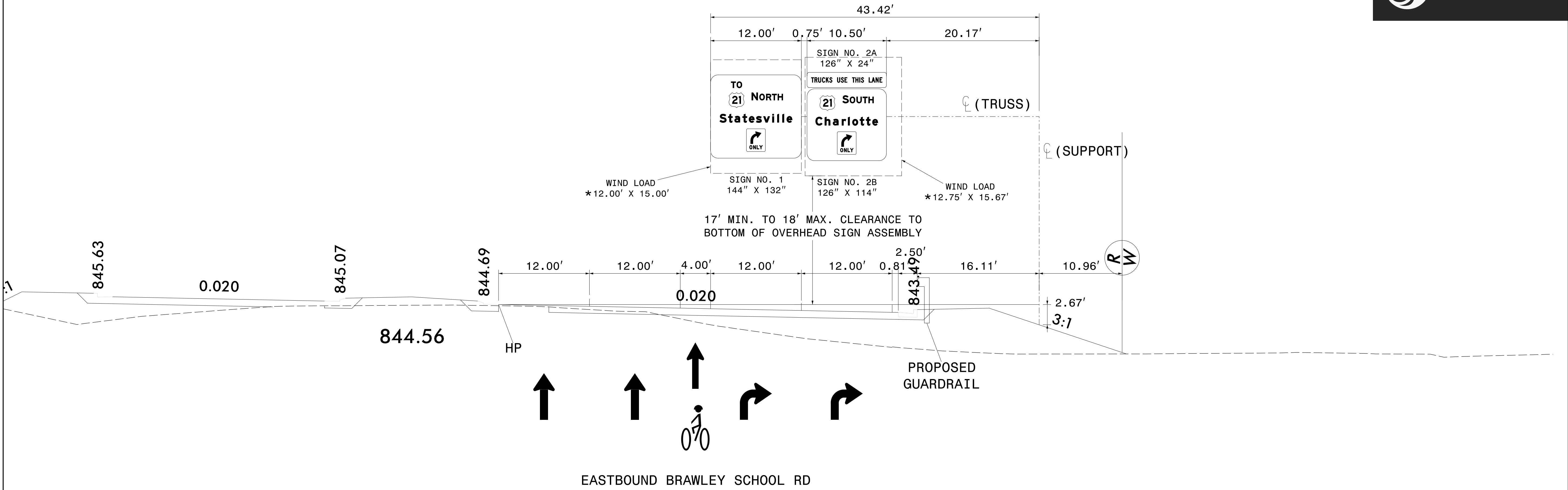
**REVISED SIGNING  
ROADWAY STANDARD DRAWING**

REVISED ROADWAY STANDARD DRAWING  
901.20 SHEET 1 OF 1

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User:rdstokes

TIP NO. R-3833C	SHEET NO. SIGN-2
APPROVED: <i>Betsy L. Watson</i> <small>DESIGNED BY: Betsy L. Watson          LICENSE: 78834F743F</small>	
DATE: 4/28/2023	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



NOTES:

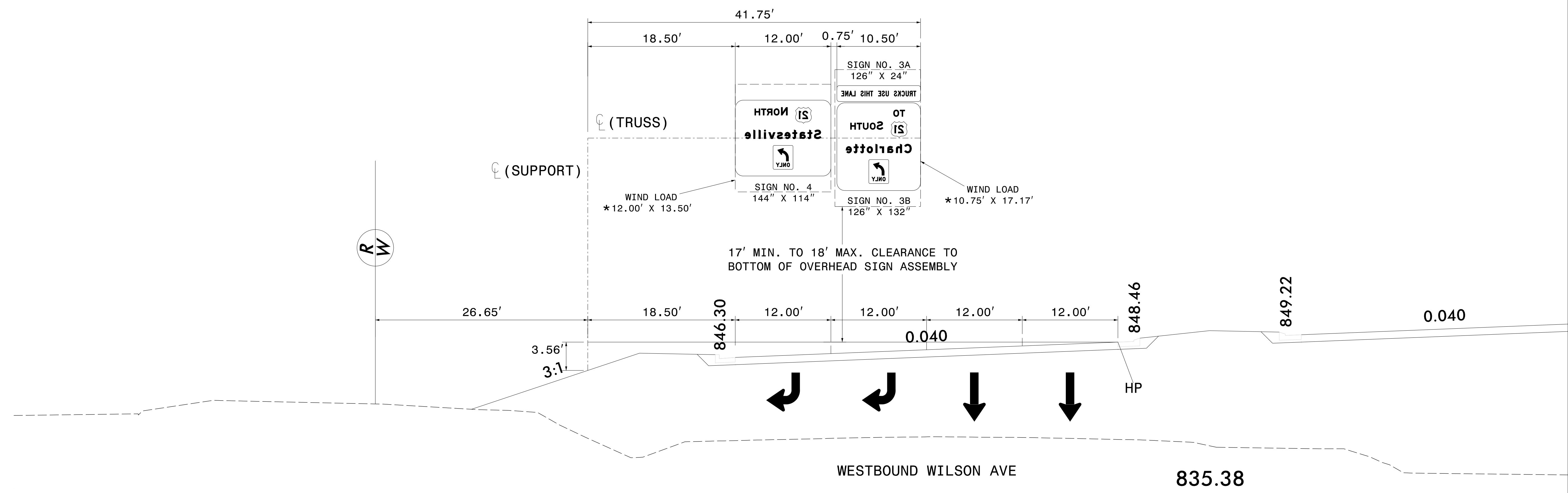
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- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING 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.

SIGN STRUCTURE 480684  
 PROPOSED OVERHEAD SIGN STRUCTURE 'A'  
 BRAWLEY SCHOOL RD  
 -L- STA 60+25

\$\$\$SYTIME\$\$\$  
 \$\$\$SERVNAME\$\$\$

TIP NO. R-3833C	SHEET NO. SIGN-2A
APPROVED: <i>Betsy L. Watson</i> <small>DESIGNED BY: Betsy L. Watson                  356978834F8743F</small>	
DATE: 4/28/2023	
SEAL	
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**NOTES:**

- IF 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.
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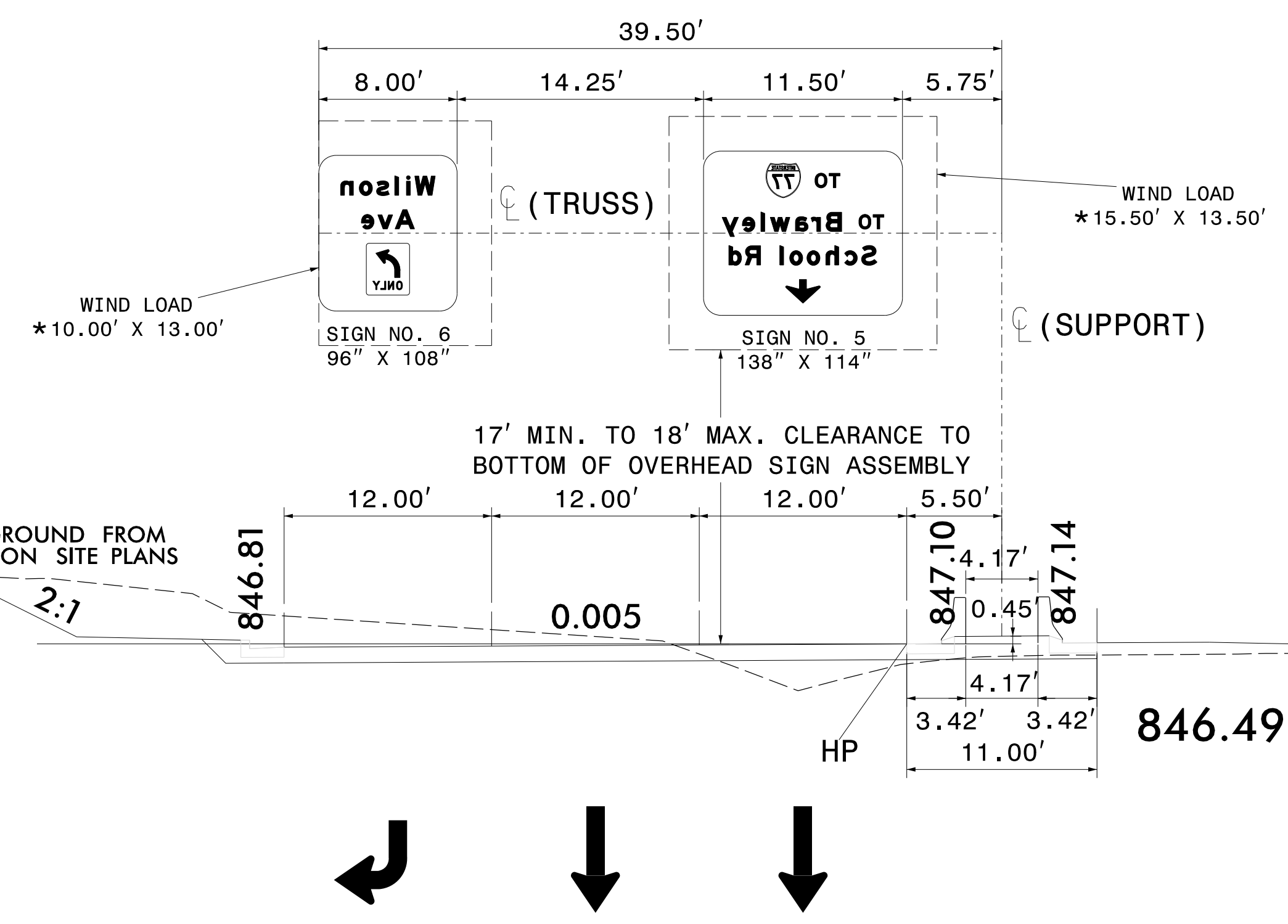
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SIGN STRUCTURE 480685  
 PROPOSED OVERHEAD SIGN STRUCTURE 'B'  
 WILSON AVE  
 -L- STA 65+25

\$\$\$SYTIME\$\$\$  
 \$\$\$SERVAVM\$\$\$



TIP NO. R-3833C	SHEET NO. SIGN-2B
APPROVED: <i>Betsy L. Watson</i> <small>DESIGNED BY: Betsy L. Watson                  LICENSE: 78834F743F</small>	
DATE: 4/28/2023	
SEAL	
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NORTHBOUND US 21


NOTES:

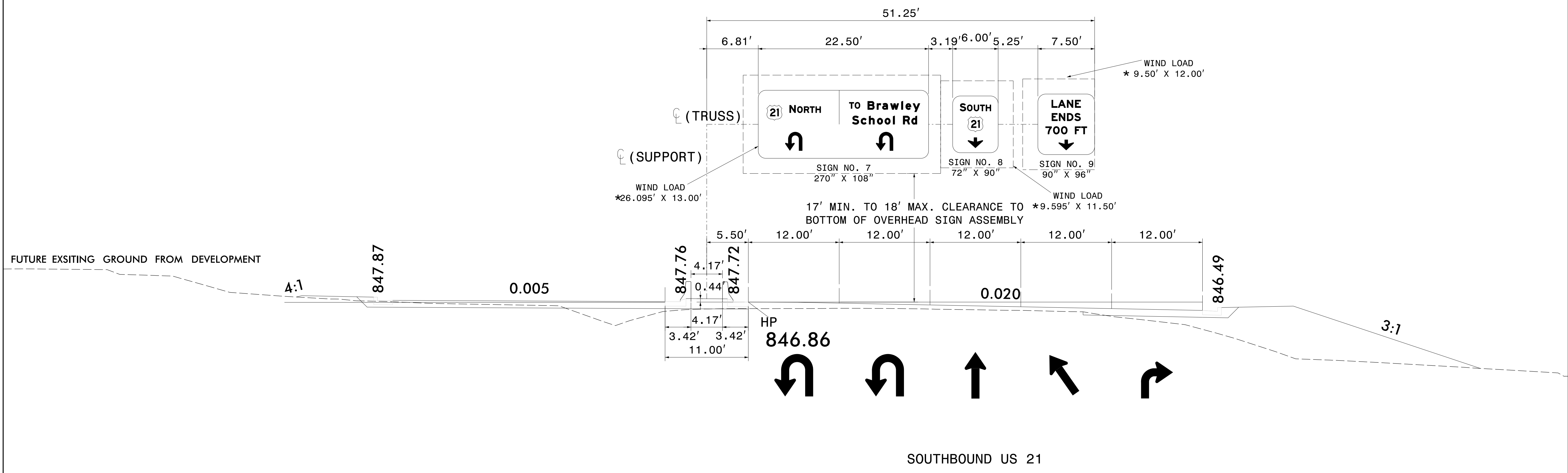
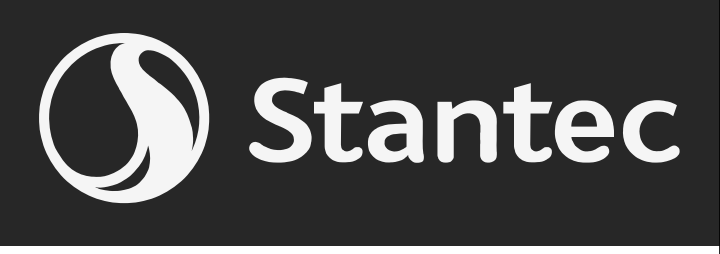
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SIGN STRUCTURE 480686  
 PROPOSED OVERHEAD SIGN STRUCTURE 'C'  
 US 21  
 -L- STA 40+63

\$\$\$SYTIME\$\$\$  
 \$\$\$SUBSERVNAME\$\$\$

TIP NO. R-3833C	SHEET NO. SIGN-2C
DESIGNED BY: APPROVED: <i>Betsy L. Watson</i> DATE: 4/28/2023	
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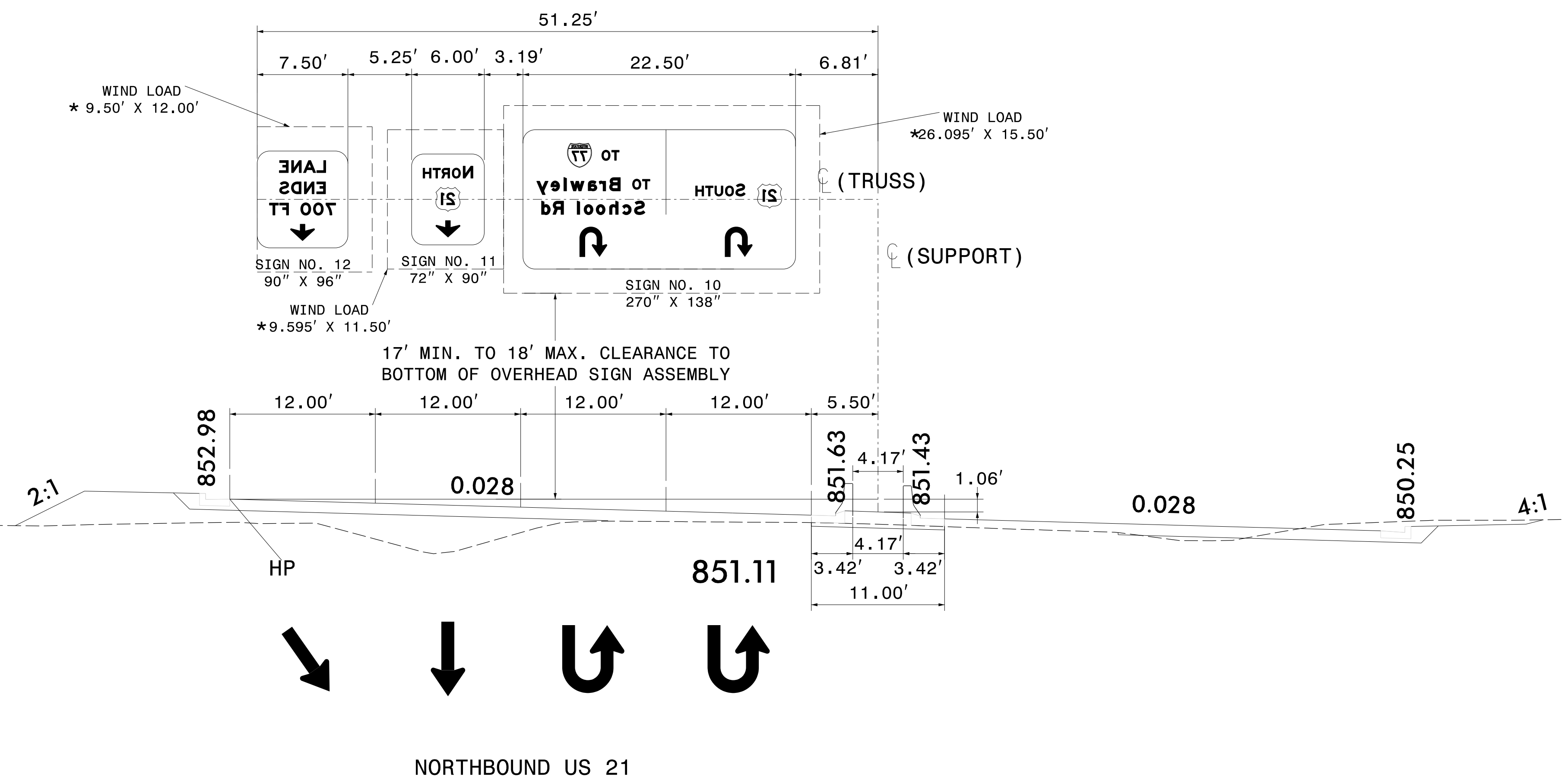
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SIGN STRUCTURE 480687  
 PROPOSED OVERHEAD SIGN STRUCTURE 'D'  
 US 21  
 -L- STA 40+38

\$\$\$SYTIME\$\$\$  
 \$\$\$SERVAVE\$\$\$

TIP NO. R-3833C	SHEET NO. SIGN-2D
APPROVED: <i>Betsy L. Watson</i> <small>DESIGNED BY: Betsy L. Watson                  LICENSE: 78834F0743F</small>	
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**NOTES:**

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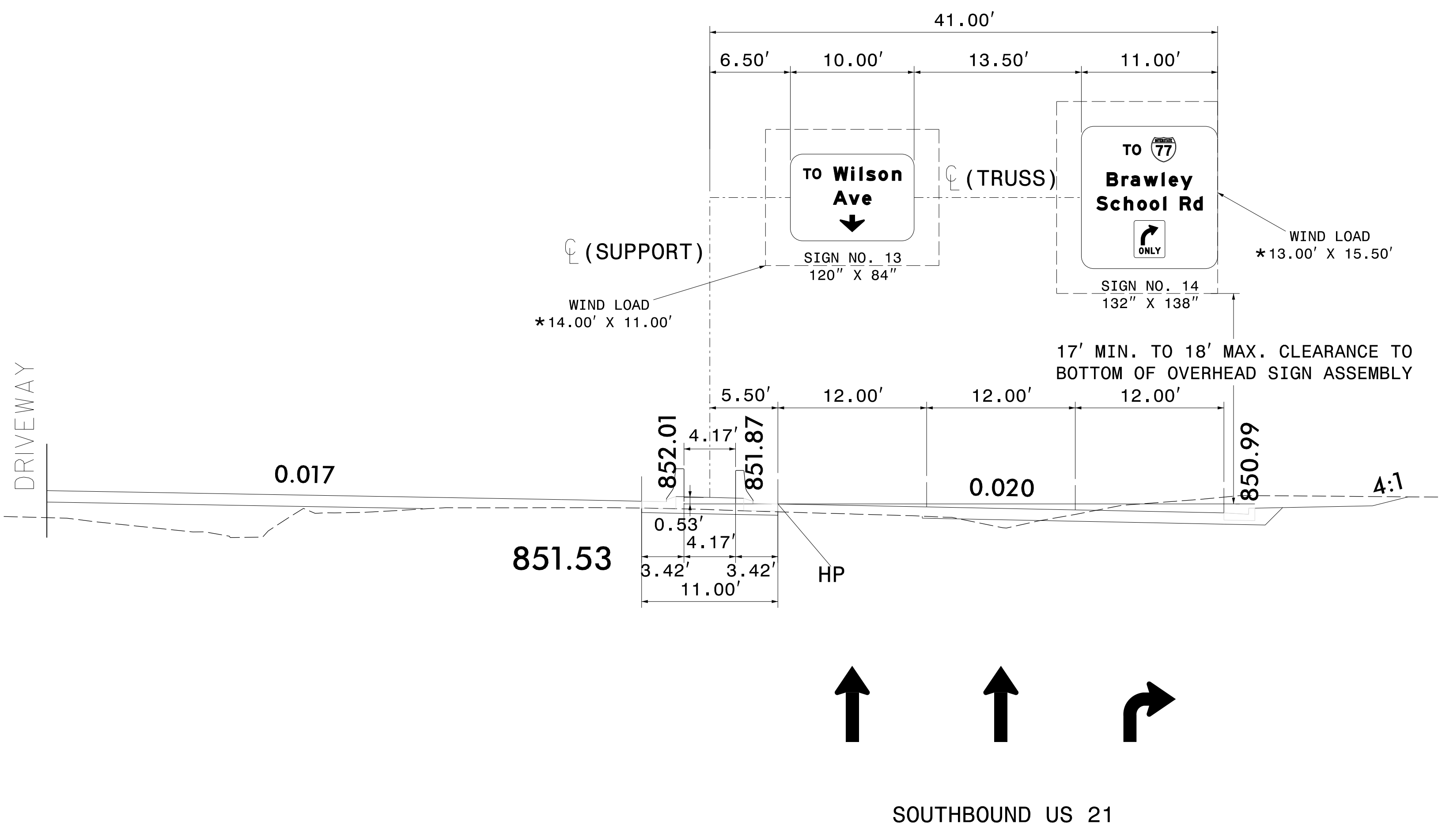
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SIGN STRUCTURE 480688  
 PROPOSED OVERHEAD SIGN STRUCTURE 'E'  
 US 21  
 -L- STA 32+25

\$\$\$SYTIME\$\$\$  
 \$\$\$SERIAL\$\$\$  
 \$\$\$DATE\$\$\$



TIP NO. R-3833C	SHEET NO. SIGN-2E
APPROVED: <i>Betsy L. Watson</i> <small>DESIGNED BY: Betsy L. Watson                  LICENSE: 78834F0743F</small>	
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SIGN STRUCTURE 480689  
 PROPOSED OVERHEAD SIGN STRUCTURE 'F'  
 US 21  
 -L- STA 32+00

\$\$\$SYTIME\$\$\$  
 \$\$\$SERVTIME\$\$\$



SIGN NUMBER: 4  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 144"  
 HEIGHT: 114"  
 TOTAL AREA: 114.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 12"  
 WIDTH: 2"  
 RECESS: 0"  
 NO. Z BARS: 3  
 LENGTH: 136.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	29.3	79.3	24	24
R3-5R	57	10	30	36

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH  
 PROJECT ID: R-3833C  
 CHECKED BY: BLW  
 DIV: 12  
 DATE: Feb 25, 2022



- USE NOTES
- Legend and border (except those that are colored black) shall be direct applied Grade A sheeting.
  - Background shall be Grade C reflective sheeting.
  - Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
  - R3-5R shall be white Grade A reflective sheeting on 0.032" aluminum and demountable. Legend, border, and arrow shall be direct applied black non-reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

	N	O	R	T	H		Series/Size Text Length
	65.3	9.7	2.6	10.7	9.2	8.1	E 2000
						29.3	49.5
	S	t	a	t	e	s	EM 2000
	14.5	13.6	10	12.8	10	11.5	115
						14.1	
						8	
						8	
						6.8	
						8.8	
						14.5	

Spacing Factor is 1 unless specified otherwise

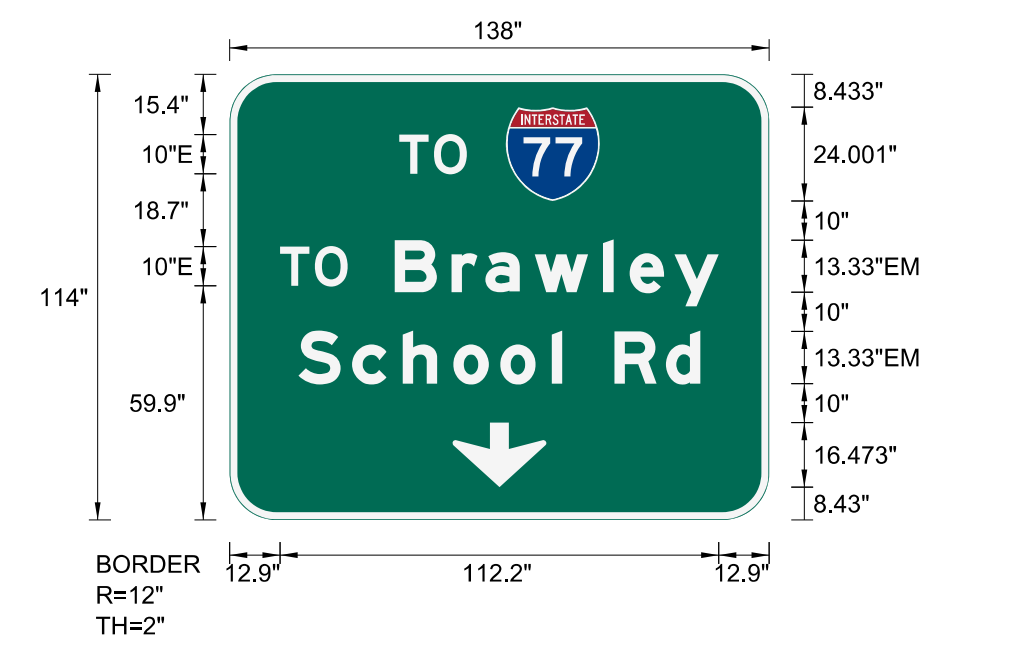
SIGN NUMBER: 5  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 138"  
 HEIGHT: 114"  
 TOTAL AREA: 109.3 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 12"  
 WIDTH: 2"  
 RECESS: 0"  
 NO. Z BARS: 3  
 LENGTH: 130.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	70.6	81.6	24	24
ARDOWN	57	8.4	24	16.5

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH  
 PROJECT ID: R-3833C  
 CHECKED BY: BLW  
 DIV: 12  
 DATE: Feb 25, 2022



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

LETTER POSITIONS

Letter spacings are to start of next letter

	T	O		B	r	a	w	l	e	y		Series/Size Text Length
	43.4	8.9	8.4	77.4								E 2000
												17.3
	T	O		B	r	a	w	l	e	y		E 2000, EM 2000
	12.9	8.9	8.4	12	14.5	8.7	12.7	17.5	6.8	11.5	11.3	112.2
												EM 2000
												102.8

Spacing Factor is 1 unless specified otherwise

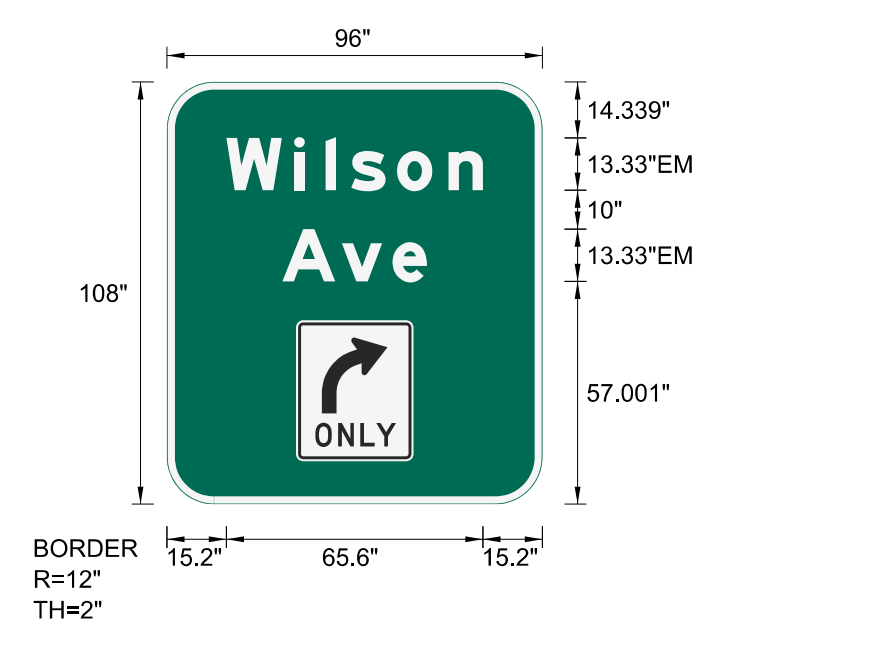
SIGN NUMBER: 6  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 96"  
 HEIGHT: 108"  
 TOTAL AREA: 72.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 12"  
 WIDTH: 2"  
 RECESS: 0"  
 NO. Z BARS: 3  
 LENGTH: 88.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
R3-5R	33	11	30	36

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH  
 PROJECT ID: R-3833C  
 CHECKED BY: BLW  
 DIV: 12  
 DATE: Feb 25, 2022



- USE NOTES
- Legend and border (except those that are colored black) shall be direct applied Grade A sheeting.
  - Background shall be Grade C reflective sheeting.
  - Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum and demountable.
  - R3-5R shall be white Grade A reflective sheeting on 0.032" aluminum and demountable. Legend, border, and arrow shall be direct applied black non-reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

	W	i	l	s	o	n		Series/Size Text Length
	15.2	17.3	8	6.5	11.7	13.2	8.8	EM 2000
								65.6
	A	v	e					EM 2000
	29.5	15.2	12.9	8.8	29.5			36.9

Spacing Factor is 1 unless specified otherwise

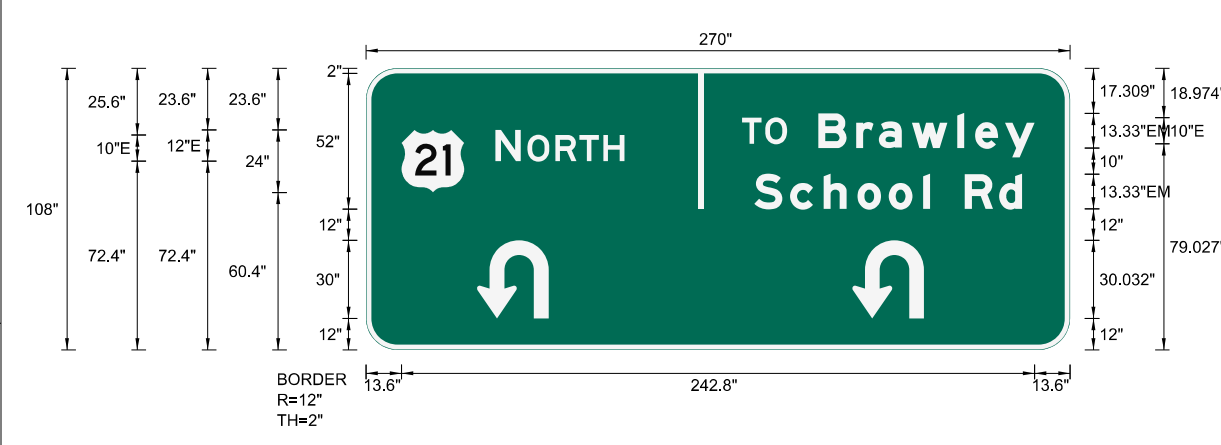
SIGN NUMBER: 7  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 270"  
 HEIGHT: 108"  
 TOTAL AREA: 202.5 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 12"  
 WIDTH: 2"  
 RECESS: 0"  
 NO. Z BARS: 3  
 LENGTH: 262.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	13.6	60.4	24	24
u-turn arrow	42.6	12	27.5	30
u-turn arrow	186.6	12	27.5	30

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH  
 PROJECT ID: R-3833C  
 CHECKED BY: BLW  
 DIV: 12  
 DATE: Apr 18, 2022



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

LETTER POSITIONS

Letter spacings are to start of next letter

	T	O		B	r	a	w	l	e	y		Series/Size Text Length
	144.2	8.9	8.4	12	14.5	8.7	12.7	17.5	6.8	11.5	11.3	E 2000, EM 2000
												112.2
	N	O		R	T	H						E 2000
	49.6	9.7	2.6	10.7	9.2	9.2	8.1	170.9				49.5
												EM 2000
												102.8

ARROW DETAILS

ARROW DIMENSIONS (INCHES)	C	D	E	F	G	H	I
	5.6875	18.6875	11.3125	6.5	10.875	1.125	11.0

Spacing Factor is 1 unless specified otherwise

TIP NO. R-3833C SHEET NO. SIGN-3A

APPROVED: *Betsy L. Watson*

DATE: 4/28/2023

SEAL

DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED

\$\$\$SYTIME\$\$\$  
 \$\$\$DGN\$\$\$  
 \$\$\$USERNAME\$\$\$



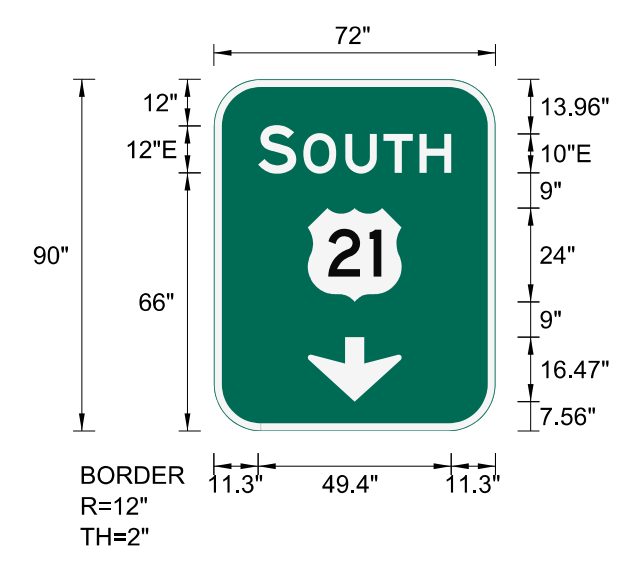
SIGN NUMBER: 8  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 72"  
 HEIGHT: 90"  
 TOTAL AREA: 45.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 12"  
 WIDTH: 2"  
 RECESS: 0"  
 NO. Z BARS: 3  
 LENGTH: 64.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	24	33	24	24
ARDOWN	24	7.6	24	16.5

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH  
 PROJECT ID: R-3833C  
 CHECKED BY: BLW  
 DIV: 12  
 DATE: Feb 25, 2022



Spacing Factor is 1 unless specified otherwise

USE NOTES  
 1. Legend and border (except those that are colored black) shall be direct applied Grade A 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.

LETTER POSITIONS

Letter spacings are to start of next letter

	S	O	U	T	H						Series/Size Text Length
	11.3	9.7	1.8	10.7	9.8	9.2	8.1	11.3			E 2000
											49.4

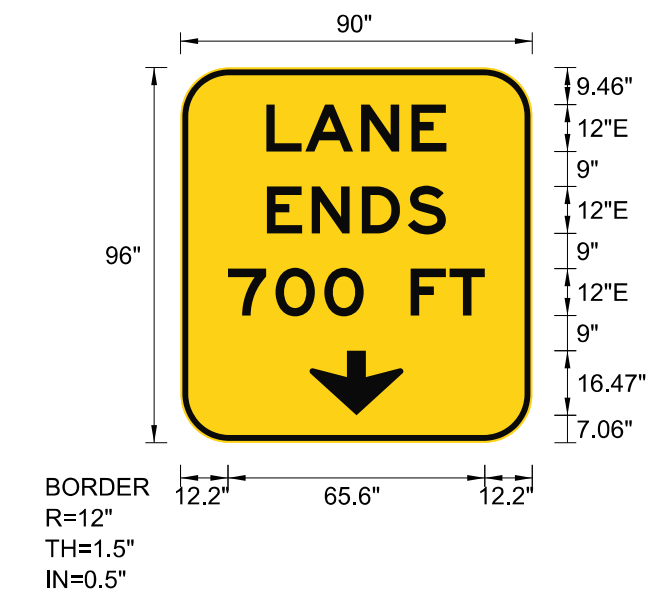
SIGN NUMBER: 9,12  
 TYPE: A  
 QUANTITY: 2  
 SIGN WIDTH: 90"  
 HEIGHT: 96"  
 TOTAL AREA: 60.0 Sq.Ft.  
 BORDER TYPE: RECESSED  
 RADII: 12"  
 WIDTH: 1.5"  
 RECESS: 0.5"  
 NO. Z BARS: 3  
 LENGTH: 82.0

BACKG COLOR: Yellow  
 COPY COLOR: Black

SYMBOL	X	Y	WID	HT
ARDOWN	33	7.1	24	16.5

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH  
 PROJECT ID: R-3833C  
 CHECKED BY: BLW  
 DIV: 12  
 DATE: Feb 25, 2022



Spacing Factor is 1 unless specified otherwise

USE NOTES  
 1. Legend and border shall be direct applied black non-reflective 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.

LETTER POSITIONS

Letter spacings are to start of next letter

	L	A	N	E							Series/Size Text Length
	22	10	14.3	12.8	9	22					E 2000
											46.1
											E 2000
	22.1	11.4	12.8	11.8	9.7	22.1					45.7
											E 2000
	7	0	0		F	T					E 2000
	12.2	12.1	12.5	10.1	12	10	9	12.2			65.6

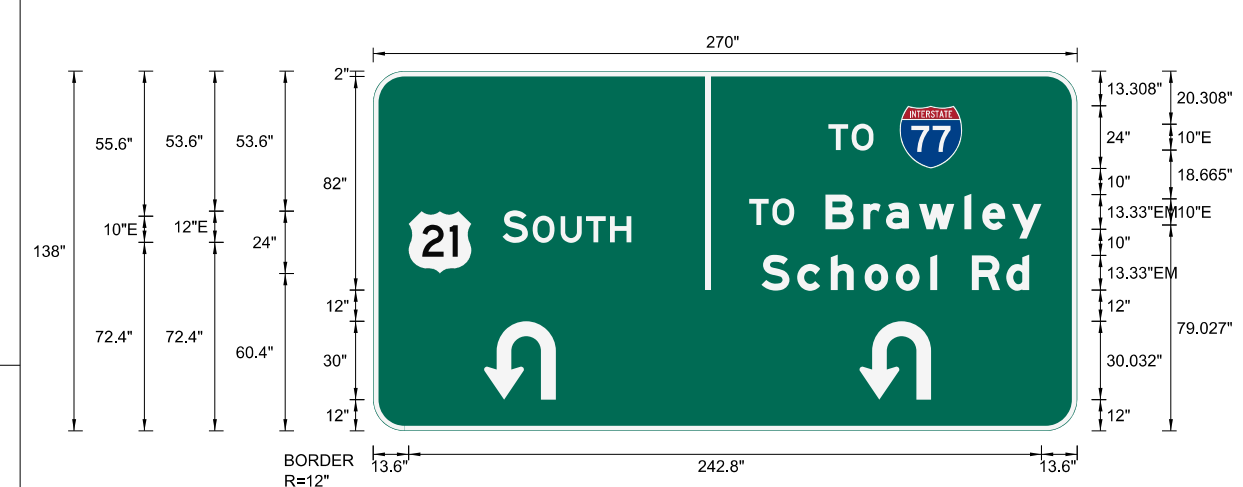
SIGN NUMBER: 10  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 270"  
 HEIGHT: 138"  
 TOTAL AREA: 258.8 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 12"  
 WIDTH: 2"  
 RECESS: 0"  
 NO. Z BARS: 3  
 LENGTH: 262.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_1	201.9	100.7	24	24
M1_4	13.6	60.4	24	24
u-turn arrow	42.6	12	27.5	30
u-turn arrow	186.6	12	27.5	30

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH  
 PROJECT ID: R-3833C  
 CHECKED BY: BLW  
 DIV: 12  
 DATE: Apr 18, 2022



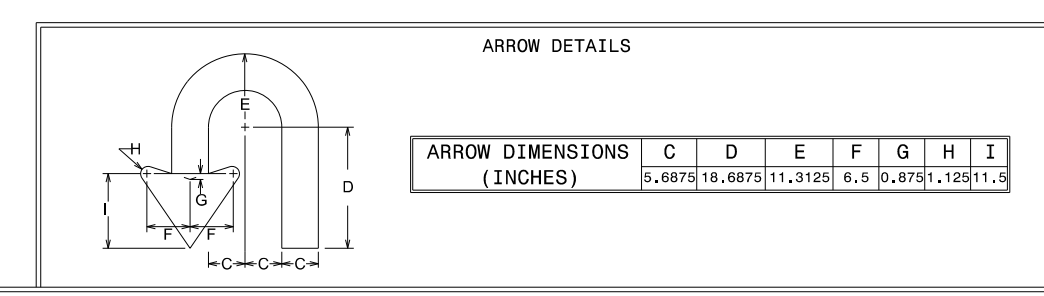
Spacing Factor is 1 unless specified otherwise

USE NOTES  
 1. Legend and border (except those that are colored black) shall be direct applied Grade A 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.

LETTER POSITIONS

Letter spacings are to start of next letter

	T	O										Series/Size Text Length
	174.6	8.9	8.4	78.1								E 2000
												17.3
												E 2000, EM 2000
	144.2	8.9	8.4	12	14.5	8.7	12.7	17.5	6.8	11.5	11.3	13.6
												112.2
												E 2000
	49.6	9.7	1.8	10.7	9.8	9.2	8.1	171				49.4
												E 2000
												EM 2000
	148.9	13.7	12.9	12.9	12	13.2	2.7	13.3	13.2	8.8	18.3	102.8



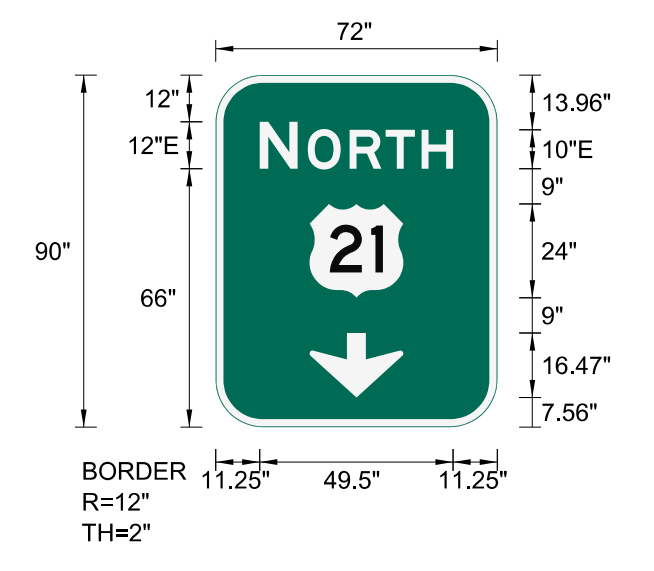
SIGN NUMBER: 11  
 TYPE: A  
 QUANTITY: 1  
 SIGN WIDTH: 72"  
 HEIGHT: 90"  
 TOTAL AREA: 45.0 Sq.Ft.  
 BORDER TYPE: FLUSH  
 RADII: 12"  
 WIDTH: 2"  
 RECESS: 0"  
 NO. Z BARS: 3  
 LENGTH: 64.0

BACKG COLOR: Green  
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	24	33	24	24
ARDOWN	24	7.6	24	16.5

MAT'L: 0.125" (3.2MM) ALUMINUM

DESIGN BY: RRH  
 PROJECT ID: R-3833C  
 CHECKED BY: BLW  
 DIV: 12  
 DATE: Feb 25, 2022



Spacing Factor is 1 unless specified otherwise

USE NOTES  
 1. Legend and border (except those that are colored black) shall be direct applied Grade A 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.

LETTER POSITIONS

Letter spacings are to start of next letter

	N	O	R	T	H							Series/Size Text Length
	11.3	9.7	2.6	10.7	9.2	9.2	8.1	11.3				E 2000
												49.5

TIP NO. R-3833C SHEET NO. SIGN-3B

APPROVED: *Betsy L. Watson*

DATE: 4/28/2023

SEAL

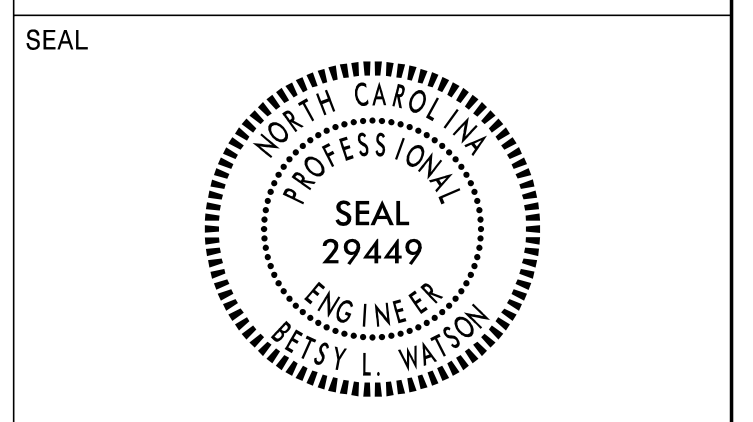
DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

\$\$\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$\$\$\$DGN\$\$\$\$\$  
 \$\$\$\$\$\$USERNAME\$\$\$\$\$



APPROVED: Betsy L. Watson


DATE: 4/28/2023



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED




401 QUANTITY REQ'D 11



30 X 36  
R2-1

ONE "U" POST PER SIGN

406 QUANTITY REQ'D 8




36 X 36  
R3-4

MOUNT BEHIND SIGN 406  
IN 2 INSTALLATIONS

ONE "U" POST PER SIGN


411 QUANTITY REQ'D 13



54 X 18  
R6-1R

TWO "U" POSTS PER SIGN


416 QUANTITY REQ'D 2



30 X 30  
W14-2

ONE "U" POST PER SIGN


421 QUANTITY REQ'D 2



36 X 36  
R3-7R

ONE "U" POST PER SIGN


426 QUANTITY REQ'D 1



18 X 24  
W16-1P

MOUNT BELOW SIGN 425  
IN 1 INSTALLATION


402 QUANTITY REQ'D 4



30 X 36  
R2-1

ONE "U" POST PER SIGN


407 QUANTITY REQ'D 10



36 X 36  
R5-1

ONE "U" POST PER SIGN


412 QUANTITY REQ'D 8



54 X 18  
R6-1L

TWO "U" POSTS PER SIGN

417 QUANTITY REQ'D 8



36 X 12  
R6-1R

TWO "U" POSTS PER SIGN

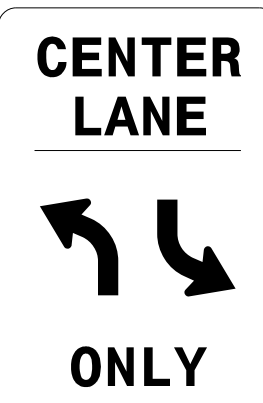
422 QUANTITY REQ'D 5



24 X 24  
R3-2

MOUNT BELOW SIGN 405  
IN 5 INSTALLATIONS


427 QUANTITY REQ'D 1



24 X 36  
R3-9b

ONE "U" POST PER SIGN

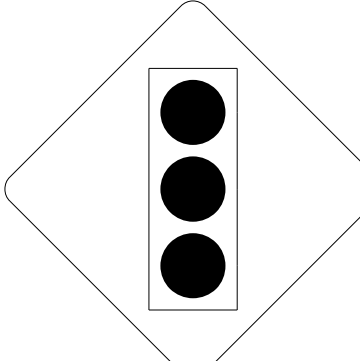
403 QUANTITY REQ'D 1



24 X 30  
R2-1

ONE "U" POST PER SIGN


408 QUANTITY REQ'D 3



30 X 30  
W3-3

ONE "U" POST PER SIGN


413 QUANTITY REQ'D 11



42 X 30  
R5-1a

ONE "U" POST PER SIGN

418 QUANTITY REQ'D 4



36 X 12

SEE SIGN DESIGN DETAIL  
ON SHEET SIGN-3C

MOUNT ABOVE SIGN 406  
IN 4 INSTALLATIONS

423 QUANTITY REQ'D 4

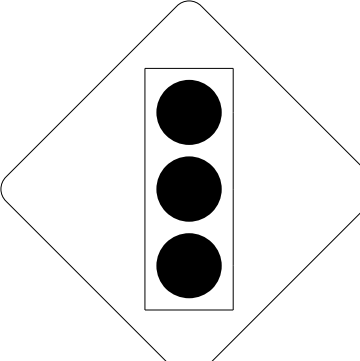


36 X 36  
R3-18

MOUNT BEHIND SIGN 407  
IN 1 INSTALLATION

ONE "U" POST PER SIGN


428 QUANTITY REQ'D 3



36 X 36  
W3-3

ONE "U" POST PER SIGN

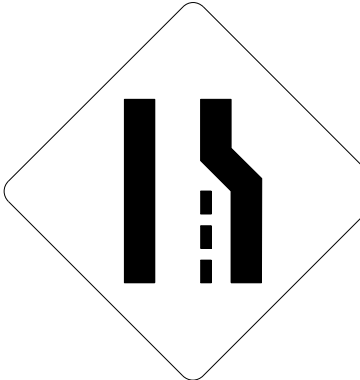
404 QUANTITY REQ'D 3



36 X 36  
W9-1R

ONE "U" POST PER SIGN

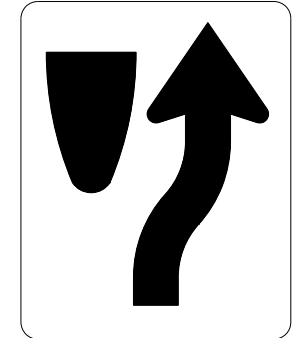
409 QUANTITY REQ'D 3



36 X 36  
W4-2R

ONE "U" POST PER SIGN

414 QUANTITY REQ'D 7



24 X 30  
R4-7

ONE "U" POST PER SIGN

419 QUANTITY REQ'D 2



24 X 18  
R3-17

ONE "U" POST PER SIGN

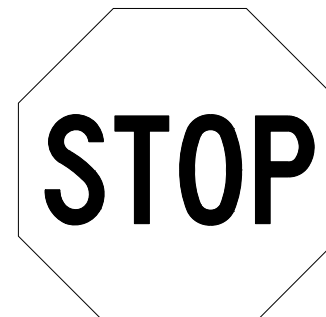
424 QUANTITY REQ'D 1



30 X 12  
R3-9cP

MOUNT ABOVE SIGN 419  
IN 1 INSTALLATION

405 QUANTITY REQ'D 15

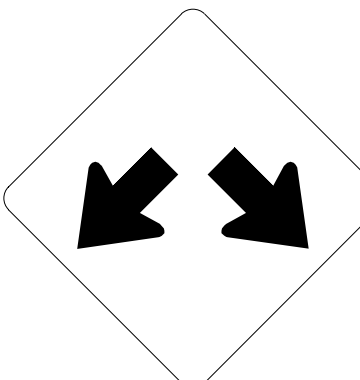


36 X 36  
R1-1

MOUNT BELOW SIGN 417  
IN 8 INSTALLATIONS

ONE "U" POST PER SIGN

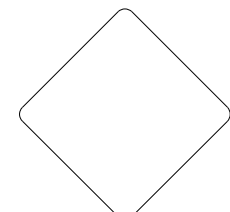
410 QUANTITY REQ'D 10



30 X 30  
W12-1

ONE "U" POST PER SIGN


415 QUANTITY REQ'D 7



18 X 18  
OM1-3

MOUNT BELOW SIGN 414  
IN 7 INSTALLATIONS


420 QUANTITY REQ'D 1



24 X 8  
R3-17bP

MOUNT BELOW SIGN 419  
IN 1 INSTALLATION

425 QUANTITY REQ'D 1



30 X 30  
W11-1

ONE "U" POST PER SIGN

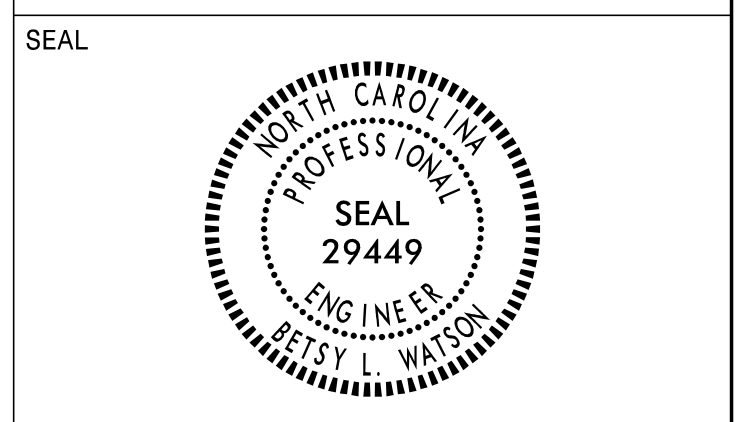
TYPE 'E' SIGNS

\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$CDN\$\$\$\$\$  
\$\$\$\$\$USERNAM\$\$\$\$\$



APPROVED: *Betsy L. Watson*  
35E97B834F8743F

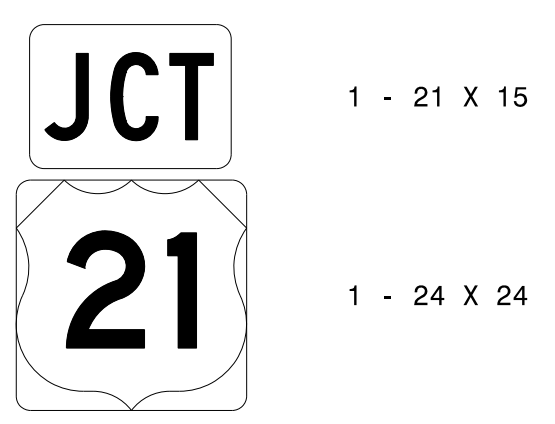
DATE: 4/28/2023



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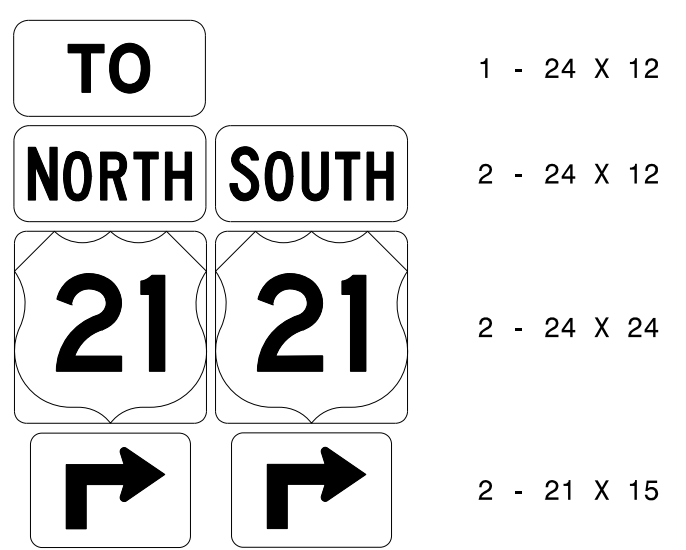


501 505



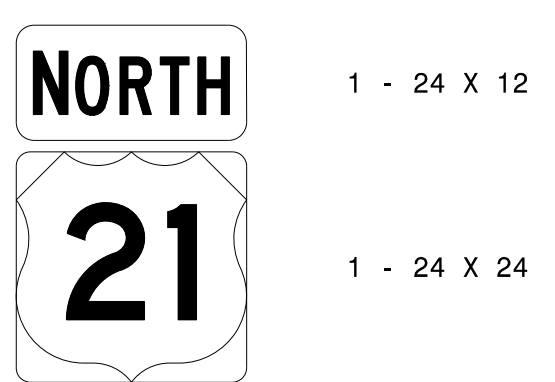
ONE "U" POST PER SIGN

502



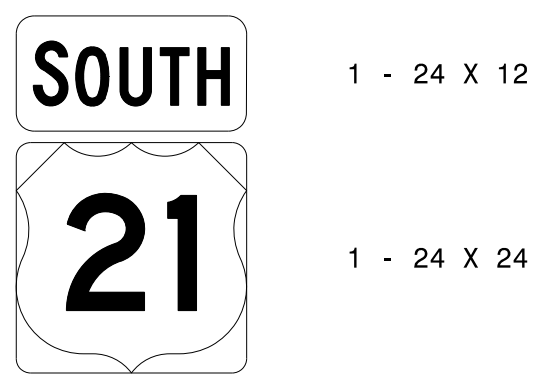
TWO "U" POSTS PER SIGN

503 507



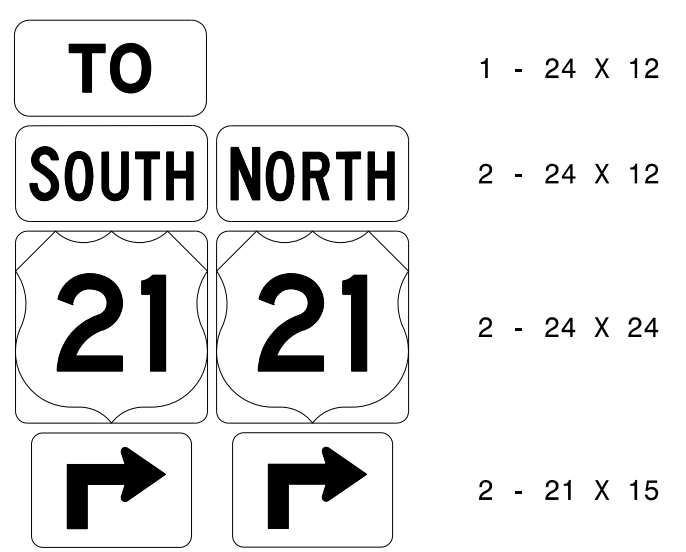
ONE "U" POST PER SIGN

504 508



ONE "U" POST PER SIGN



506

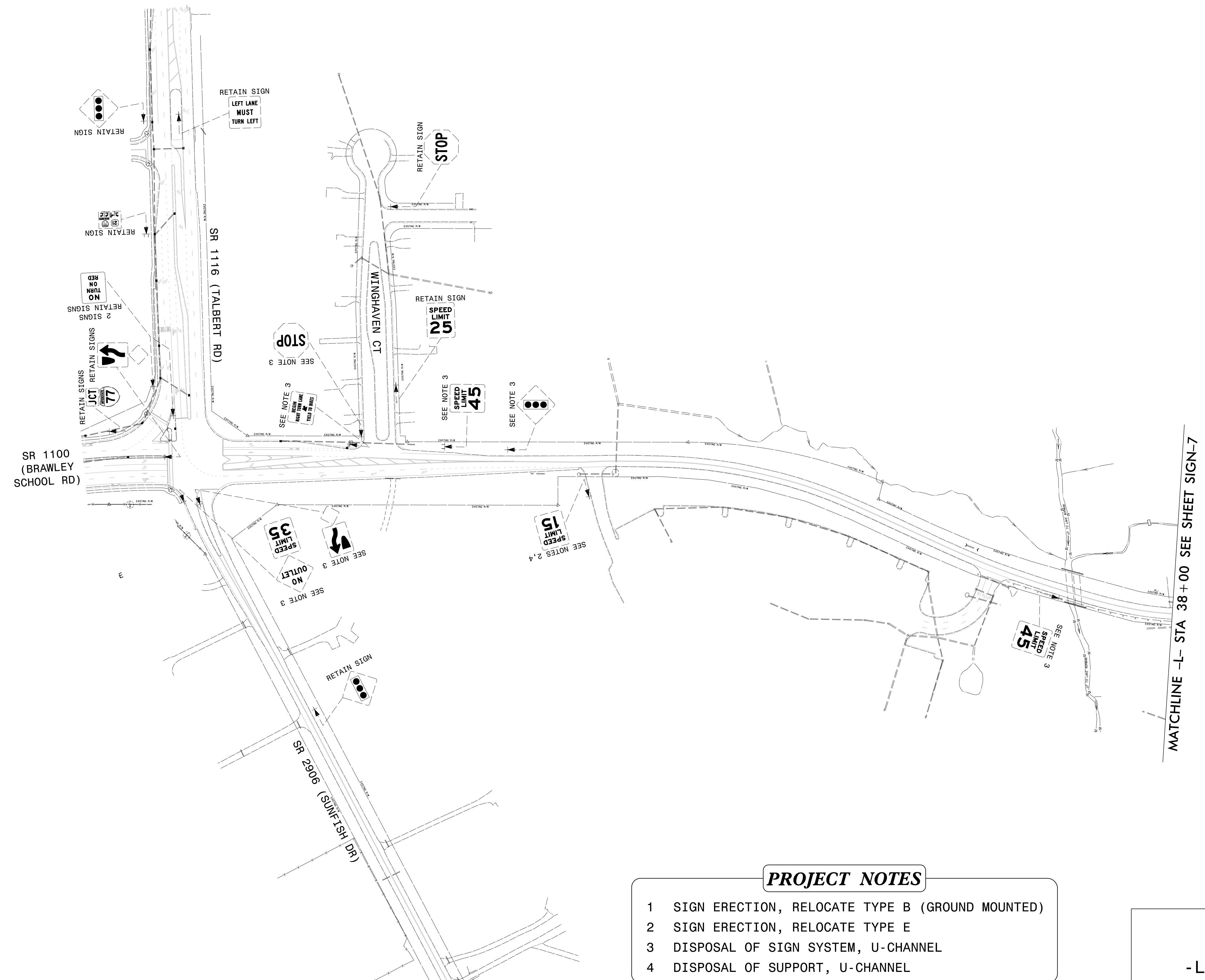
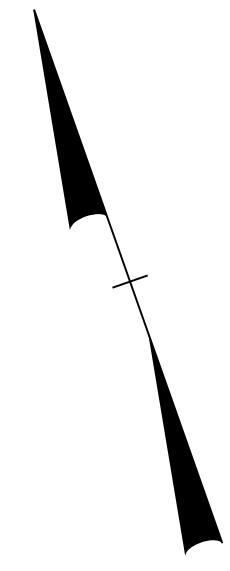


TWO "U" POSTS PER SIGN

\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$DGN\$\$\$\$\$  
\$\$\$\$\$USERNAME\$\$\$\$\$

TYPE 'F' SIGNS

TIP NO. R-3833C	SHEET NO. SIGN-6
APPROVED: <i>Betsy L. Watson</i> <small>35E97B834F8743F</small>	
DATE: 4/28/2023	
SEAL	
	
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MATCHLINE -L- STA 38 + 00 SEE SHEET SIGN-7

**PROJECT NOTES**

- 1 SIGN ERECTION, RELOCATE TYPE B (GROUND MOUNTED)
- 2 SIGN ERECTION, RELOCATE TYPE E
- 3 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 4 DISPOSAL OF SUPPORT, U-CHANNEL

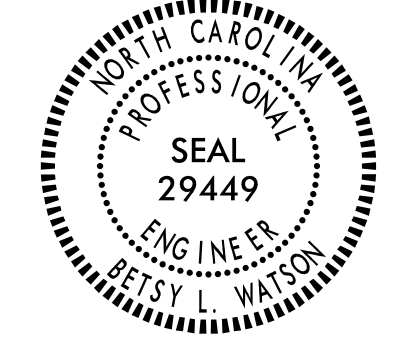

**EXISTING SIGNING**  
**BRAWLEY SCHOOL RD**  
**-L- STA 16+00 TO 38+00**

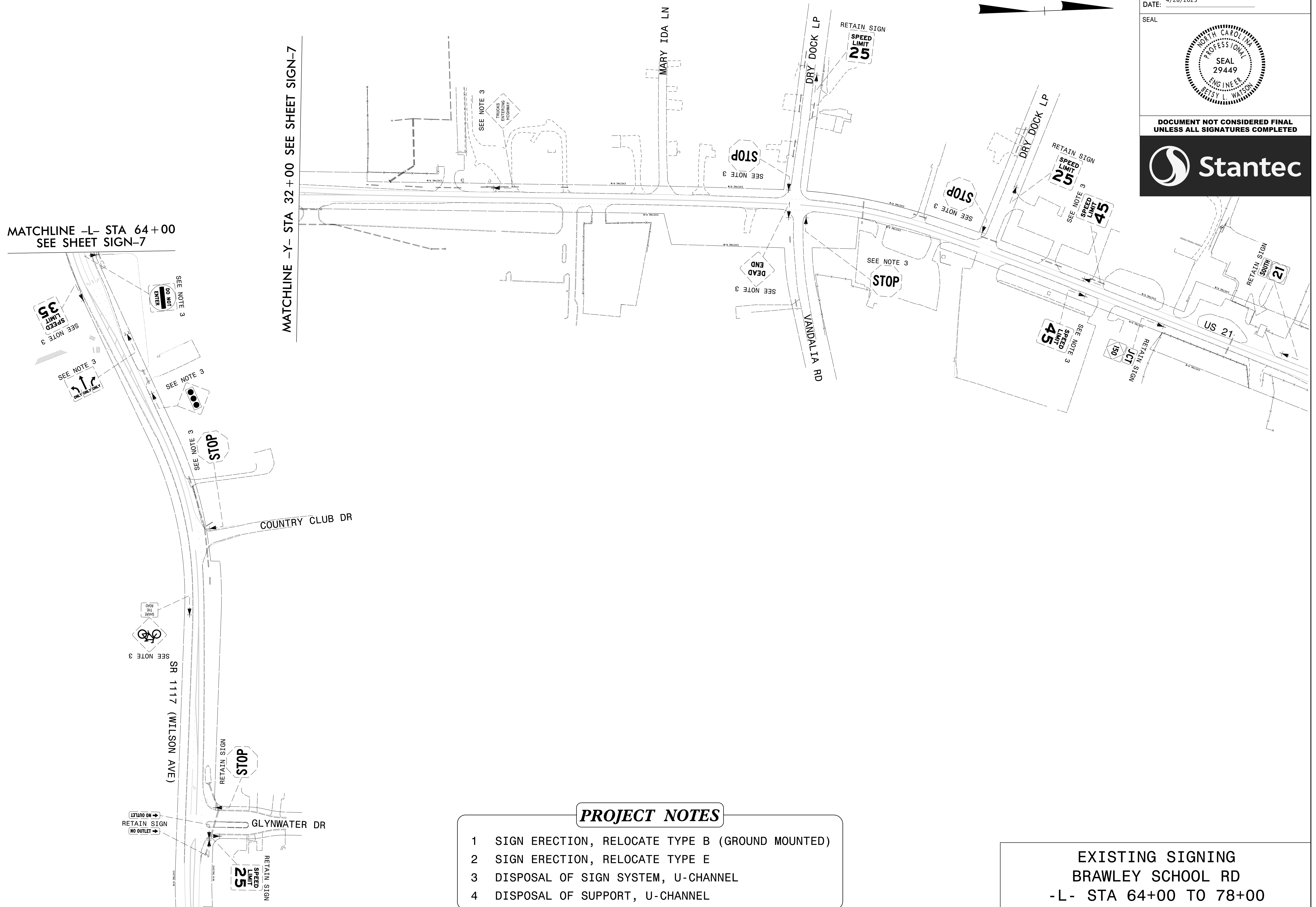
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 \$\$\$DGN\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$







TIP NO. R-3833C	SHEET NO. SIGN-8
APPROVED: <i>Betsy L. Watson</i> SEAL 29449	
DATE: 4/28/2023	
SEAL	
	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
	

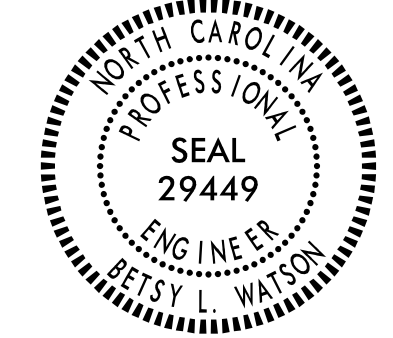



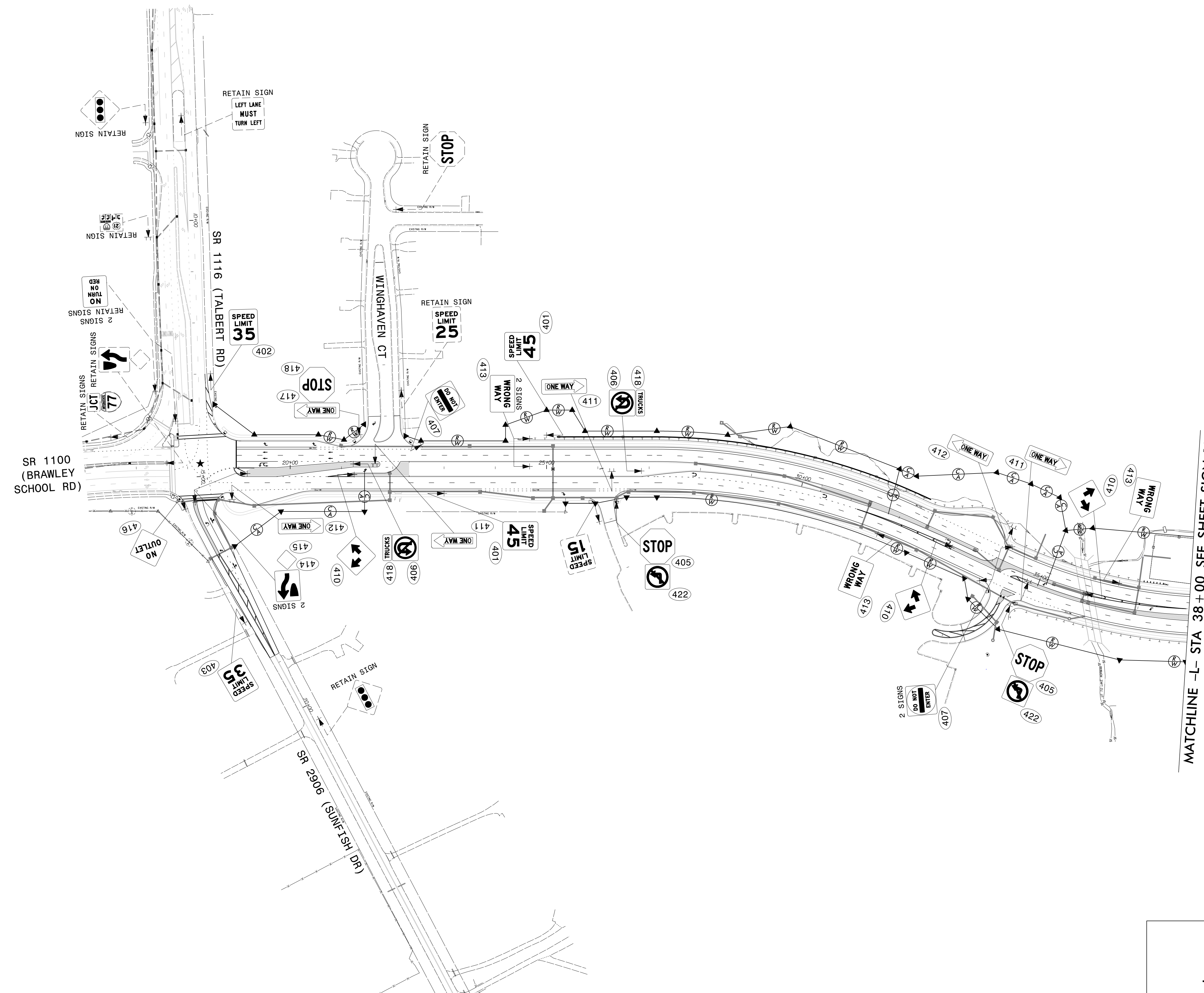
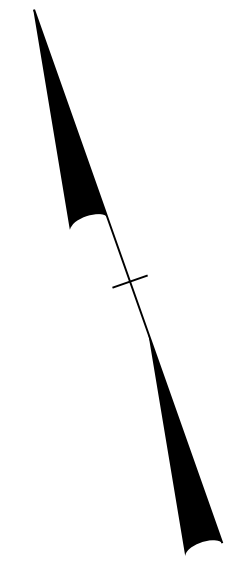
**PROJECT NOTES**

- 1 SIGN ERECTION, RELOCATE TYPE B (GROUND MOUNTED)
- 2 SIGN ERECTION, RELOCATE TYPE E
- 3 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- 4 DISPOSAL OF SUPPORT, U-CHANNEL

**EXISTING SIGNING  
BRAWLEY SCHOOL RD  
-L- STA 64+00 TO 78+00**

\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$DDGN\$\$\$\$\$  
\$\$\$\$\$USERNAME\$\$\$\$\$

TIP NO. R-3833C	SHEET NO. SIGN-9
APPROVED: <i>Betsy L. Watson</i> 35E97B834F8743F	
DATE: 4/28/2023	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
	



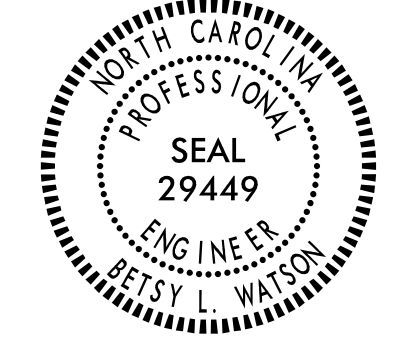
MATCHLINE -L- STA 38+00 SEE SHEET SIGN-10

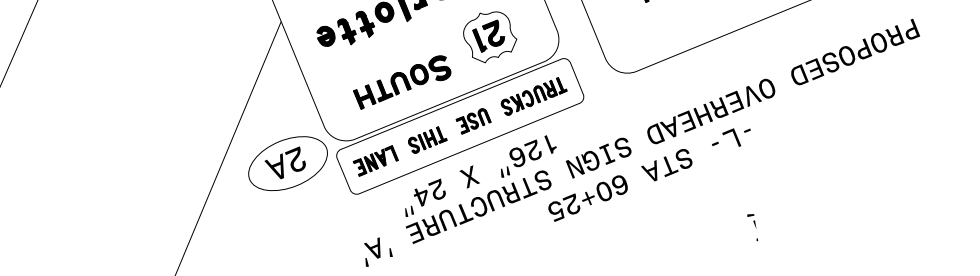
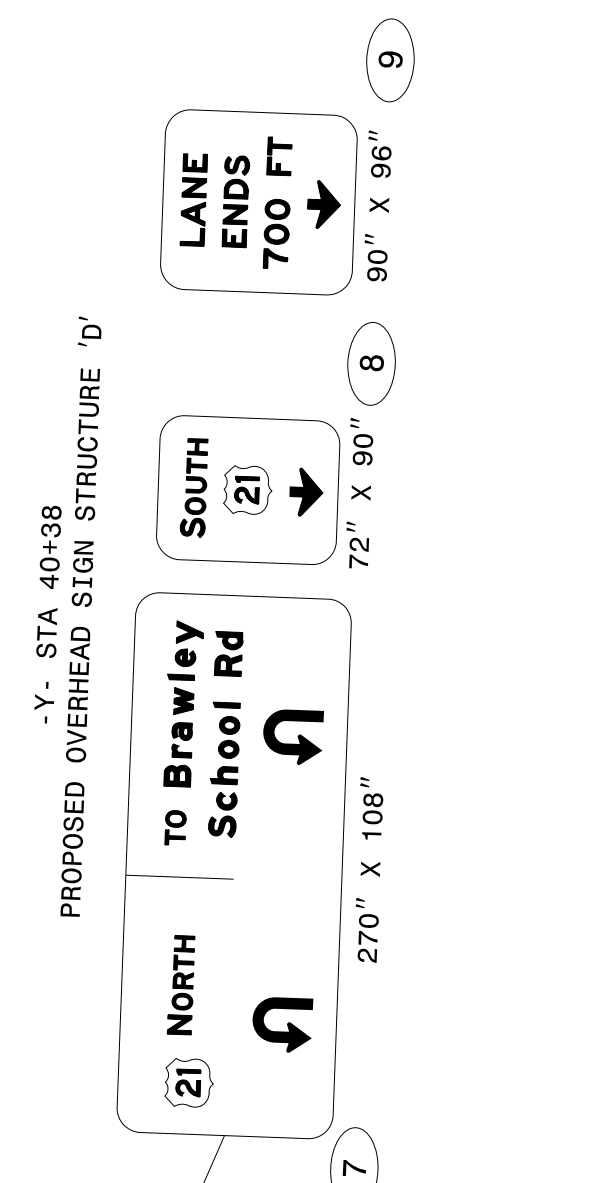
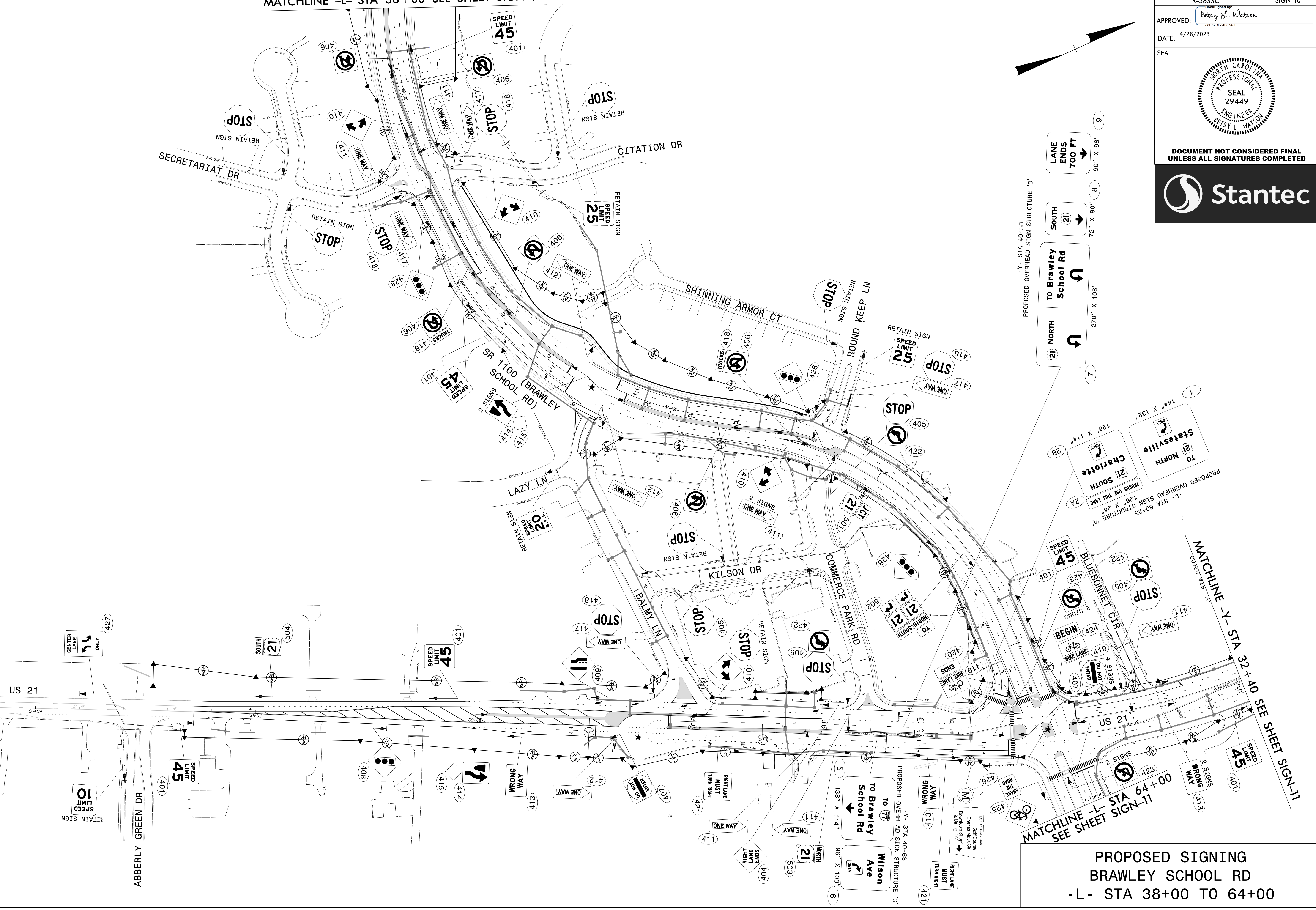
**PROPOSED SIGNING**  
**BRAWLEY SCHOOL RD**  
**-L- STA 16+00 TO 38+00**

\$\$\$SYTIME\$\$\$\$  
 \$\$\$DGN\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$



MATCHLINE -L- STA 38+00 SEE SHEET SIGN-9

TIP NO. R-3833C	SHEET NO. SIGN-10
APPROVED: <i>Betsy L. Watson</i> 35677834F8743F	
DATE: 4/28/2023	
SEAL	
	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



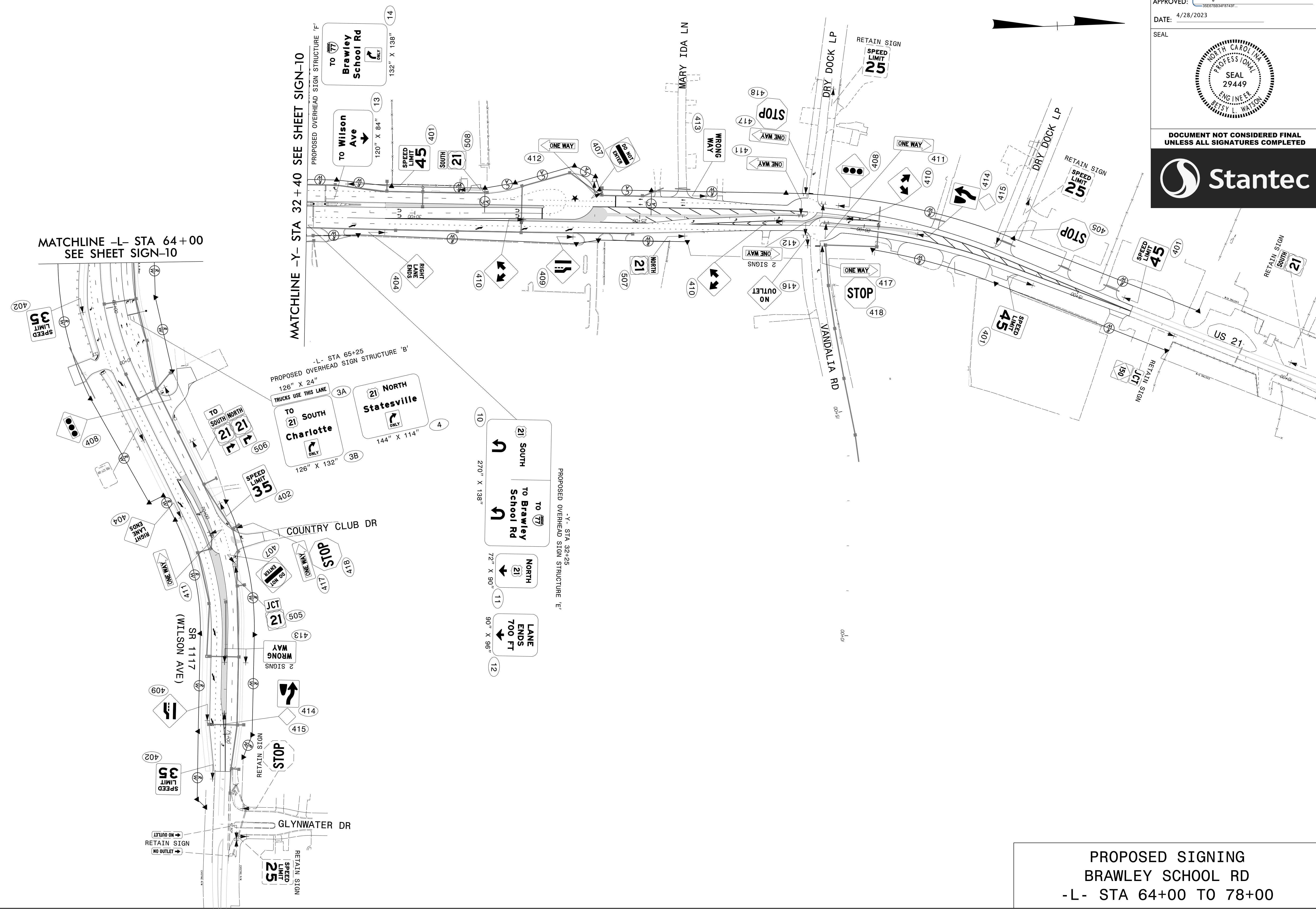
**PROPOSED SIGNING**  
**BRAWLEY SCHOOL RD**  
**-L- STA 38+00 TO 64+00**

\$\$\$SYTIME\$\$\$\$\$  
 \$\$\$DGN\$\$\$\$\$  
 \$\$\$USERNAME\$\$\$\$\$



TIP NO. R-3833C	SHEET NO. SIGN-11
APPROVED: <i>Betsy L. Watson</i>	
DATE: 4/28/2023	
SEAL	

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



MATCHLINE -L- STA 64+00  
SEE SHEET SIGN-10

MATCHLINE -Y- STA 32+40 SEE SHEET SIGN-10

PROPOSED OVERHEAD SIGN STRUCTURE 'B'  
-L- STA 65+25  
126" X 24"  
TRUCKS USE THIS LANE

TO SOUTH NORTH  
21  
TO SOUTH  
21  
Charlotte

21 NORTH  
Statesville

PROPOSED OVERHEAD SIGN STRUCTURE 'E'  
-Y- STA 32+25

TO SOUTH  
21  
Brawley School Rd

NORTH  
21

LANE ENDS  
700 FT

\$\$\$\$\$SYTIME\$\$\$\$\$  
\$\$\$\$\$DDGN\$\$\$\$\$  
\$\$\$\$\$USERNAME\$\$\$\$\$

**PROPOSED SIGNING  
BRAWLEY SCHOOL RD  
-L- STA 64+00 TO 78+00**