

I2/19/17
P:\TIPProjects-B\B4491\Traffic\Signing\CA00\Signing Layout Plans\B-4491_SIGN-1.dgn
User:ericward

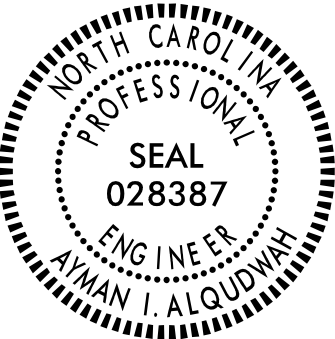
CONTRACT: C204076

T.I.P.: B-4491

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
CUMBERLAND COUNTY

LOCATION: BRIDGE NO. 22 OVER I-95 BUSINESS /US 301 ON NC 59

PROJECT REFERENCE NO.	SHEET NO.
B-4491	SIGN-1
DocuSigned by: APPROVED: <i>Ayman Alqudwah</i> F32AC5CAF85472...	
DATE: 2/13/2018	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

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
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

PROJECT NOTES

- DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- DISPOSAL OF SIGN SYSTEM, STEEL BEAM

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

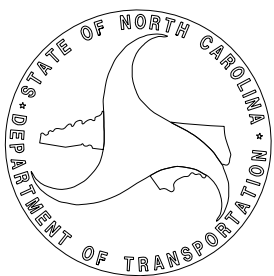
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	4	C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	5281	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	2034	L.F.
4096000000	904	SIGN ERECTION, TYPE D	6	EA.
4102000000	904	SIGN ERECTION, TYPE E	105	EA.
4108000000	904	SIGN ERECTION, TYPE F	22	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	6	EA.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	3	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	7	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	86	EA.

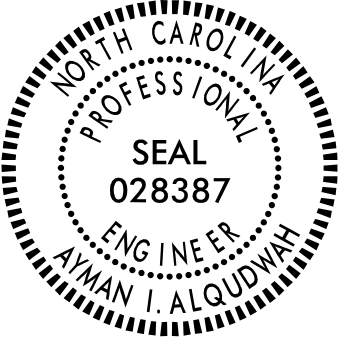
INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-1A	SUPPORT CHART GROUND MOUNTED SIGNS
SIGN-1B-1E	SIGN DESIGNS (A,B,D & E)
SIGN-1F-1G	E AND F SHEETS
SIGN-2-6	EXISTING SIGNS PLAN SHEETS
SIGN-7-11	SIGNING PLAN SHEETS

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

AYMAN ALQUDWAH, PE, _____ SIGNING & DELINEATION REGIONAL ENGINEER
Eric Ward _____ SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PROJECT REFERENCE NO.	SHEET NO.
B - 4491	SIGN - 1B
Disassembled by: APPROVED: <u>Ayman Alqudwah</u>	
DATE: <u>11/15/2017</u>	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

SIGN NUMBER: 101 TYPE: A QUANTITY: 1 SIGN WIDTH: 14'-0" HEIGHT: 11'-6" TOTAL AREA: 161.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 160.0	BACKGROUND COLOR: Green COPY COLOR: White <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>SYMBOL</th> <th>X</th> <th>Y</th> <th>WID</th> <th>HT</th> </tr> </thead> <tbody> <tr> <td>M1-5-2-24-10C</td> <td>32</td> <td>63.7</td> <td>36</td> <td>36</td> </tr> <tr> <td>M1_1</td> <td>100</td> <td>63.7</td> <td>36</td> <td>36</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WID	HT	M1-5-2-24-10C	32	63.7	36	36	M1_1	100	63.7	36	36																																									DESIGN BY: B.Rashid PROJECT ID: B-4491 CHECKED BY: LOCATION: Feb 25, 2016 DIV: 6
SYMBOL	X	Y	WID	HT																																																					
M1-5-2-24-10C	32	63.7	36	36																																																					
M1_1	100	63.7	36	36																																																					

USE NOTES: 1,2,3

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum with Grade C reflective sheeting and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Arrow shall be on 0.032" aluminum, black non-reflective sheeting and demountable. Yellow panel is:

Letter spacings are to start of next letter															Series/Size Text Length
	T	O													E 2000
105	13.4	12.6	37												26
	H	O	P	E		M	I	L	L	S					EM 2000
18.3	17	15.8	14.1	10.6	16	20.3	9.6	9.6	7.8	10.6	18.3				131.4
	E	X	I	T		1/4		M	I	L	E				E 2000
26.2	8.9	10.7	3.5	7.5	15	22	15	12	4.4	9.2	7.5	26.2			115.7

FILENAME: B-4491_Sign Designs
NORTH CAROLINA D.O.T. SIGN DETAIL

[illegible][illegible]

SIGN NUMBER: 106 TYPE: A QUANTITY: 1 SIGN WIDTH: 14'-6" HEIGHT: 11'-6" TOTAL AREA: 166.8 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 166.0	BACK COLOR: Green COPY COLOR: White	DESIGN BY: EEW PROJECT ID: B-4491	CHECKED BY: LOCATION:	Oct 23, 2017 DIV: 6
---	--	--	--	--------------------------------------

USE NOTES: 1,2,3

- Legend and border(except those that are colored black) shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.
- Shields; A, B, and C type arrows shall be on 0.032" (0.8mm) aluminum with Grade C reflective sheeting and demountable.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Arrow shall be on 0.032" aluminum. Black non-reflective sheeting an demountable. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

Letter spacings are to start of next letter															Series/Size Text Length
N	O	R	T	H											E 2000 59.9
T	O														E 2000 26
H	O	P	E	M	I	L	I	S							EM 2000 131.4
E	X	I	T	I/2		M	I	L	E						E 2000 115.7

FILENAME: B-4491 New Sign Designs NORTH CAROLINA D.O.T. SIGN DETAIL

PROJECT REFERENCE NO.	SHEET NO.
B - 4491	SIGN - 1C
Descartegiment by: APPROVED: <u>Ayman Alqudwah</u> DATE: <u>11/15/2017</u>	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

[illegible][illegible][illegible][illegible]

SIGN DESIGNS (TYPE "B" & "D" SIGNS)

\\14\17
P:\TIP\Projects-B\B4491\Traffic\Signing\CADD\Signing Layout Plans\B-4491_SIGN-1.dgn
User:ricward

PROJECT REFERENCE NO. B - 4491	SHEET NO. SIGN - 1E
Desc: <u>Asymant Alqoudwah</u> APPROVED: _____ DATE: <u>11/15/2017</u>	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

[illegible][illegible]

SIGN NUMR: 421	BACKG. COLOR: Yellow	DESIGN BY: DME	CHECKED BY: AIA	11/15/2017	N. C. DEPARTMENT OF TRANSPORTATION
TYPE: E	COPY COLOR: Black	PROJECT ID: B-4491	LOCATION:	DATE: Mar 26, 2015	DIVISION OF HIGHWAYS
QUANTITY: 1				DIV: 06	TRANSPORTATION MOBILITY AND SAFETY
					SIGNING AND DELINEATION

SIGN WIDTH: 4'-0"

HEIGHT: 4'-6"

TOTAL AREA: 18.0 Sq.Ft.

MAT'L: 0.125" ALUMINUM

BORDER TYPE: FLUSH

RECESS: 0.75"

WIDTH: 1.25"

RADII: 3"

NO. Z BARS:

LENGTH:

SYMBOL	X	Y	WID	HT
Free Flow	5.6	20.9	37	29.3

USE NOTES: 1,5

- Legend and border shall be direct applied Non-reflective sheeting.
- Legend and border shall be direct applied Grade C reflective sheeting.
- Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
- Background shall be Grade B reflective sheeting.
- Background shall be Grade C reflective sheeting.
- Center arrow(s) vertically on sign.

BORDER R=3"
 TH=1.25"
 IN=0.75"
 BAR=1.25"

Letter spacings are to start of next letter																				Series/Size
	F	R	E	E		F	L	O	W	I	N	G								Text Length
5	3.1	3.5	3.2	2.5	3.9	3.1	3	3.4	4.3	1.6	3.6	2.8	5							C 2000
																				38
	R	I	G	H	T		T	U	R	N										C 2000
8.5	3.4	1.4	3.6	3.3	2.6	3.8	3.1	3.6	3.4	2.8	8.5									31

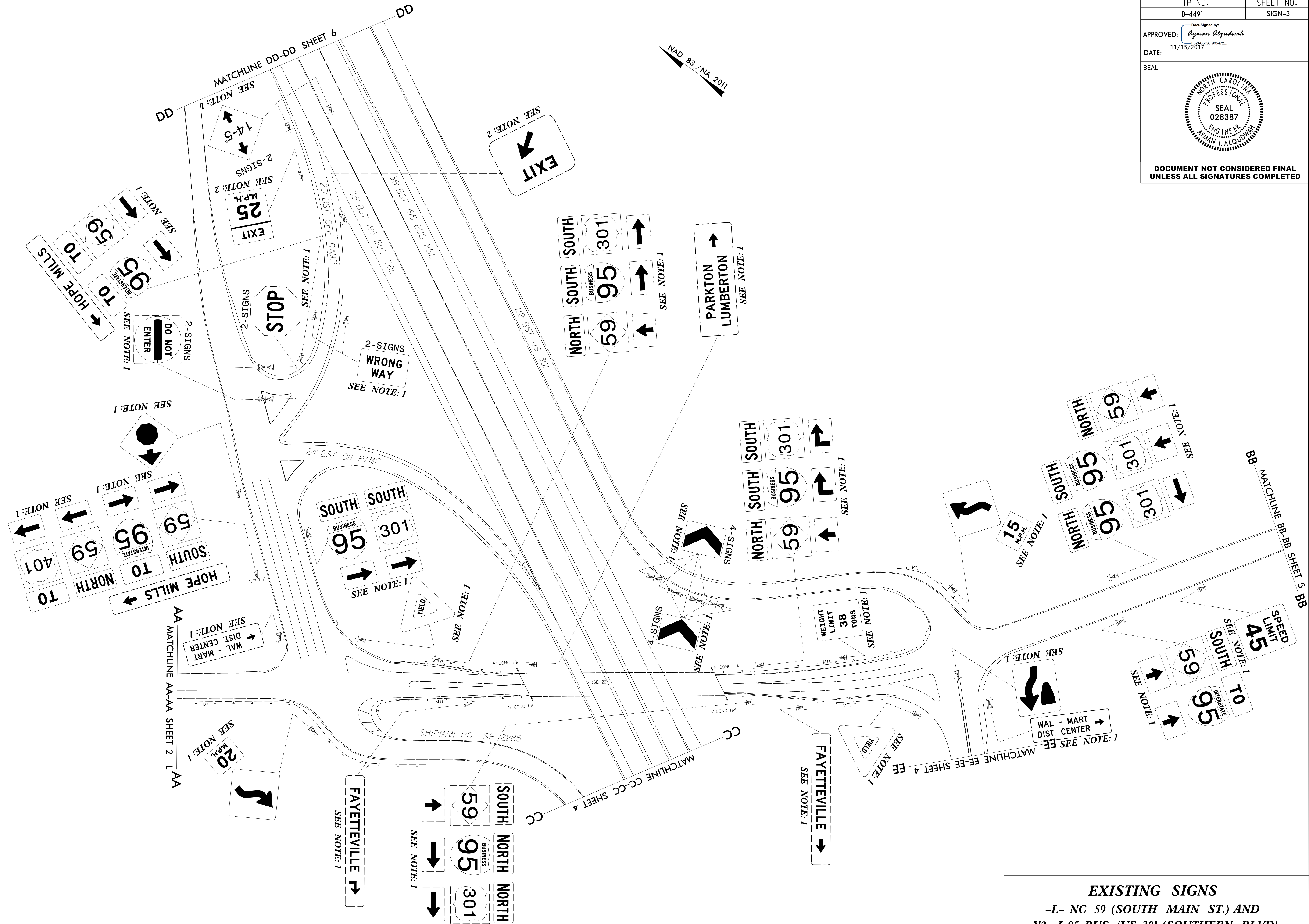
Spacing Factor is 1 unless specified otherwise

FILENAME: GSENG

SIGN DESIGNS
(TYPE "A", "B" & "E" SIGNS)

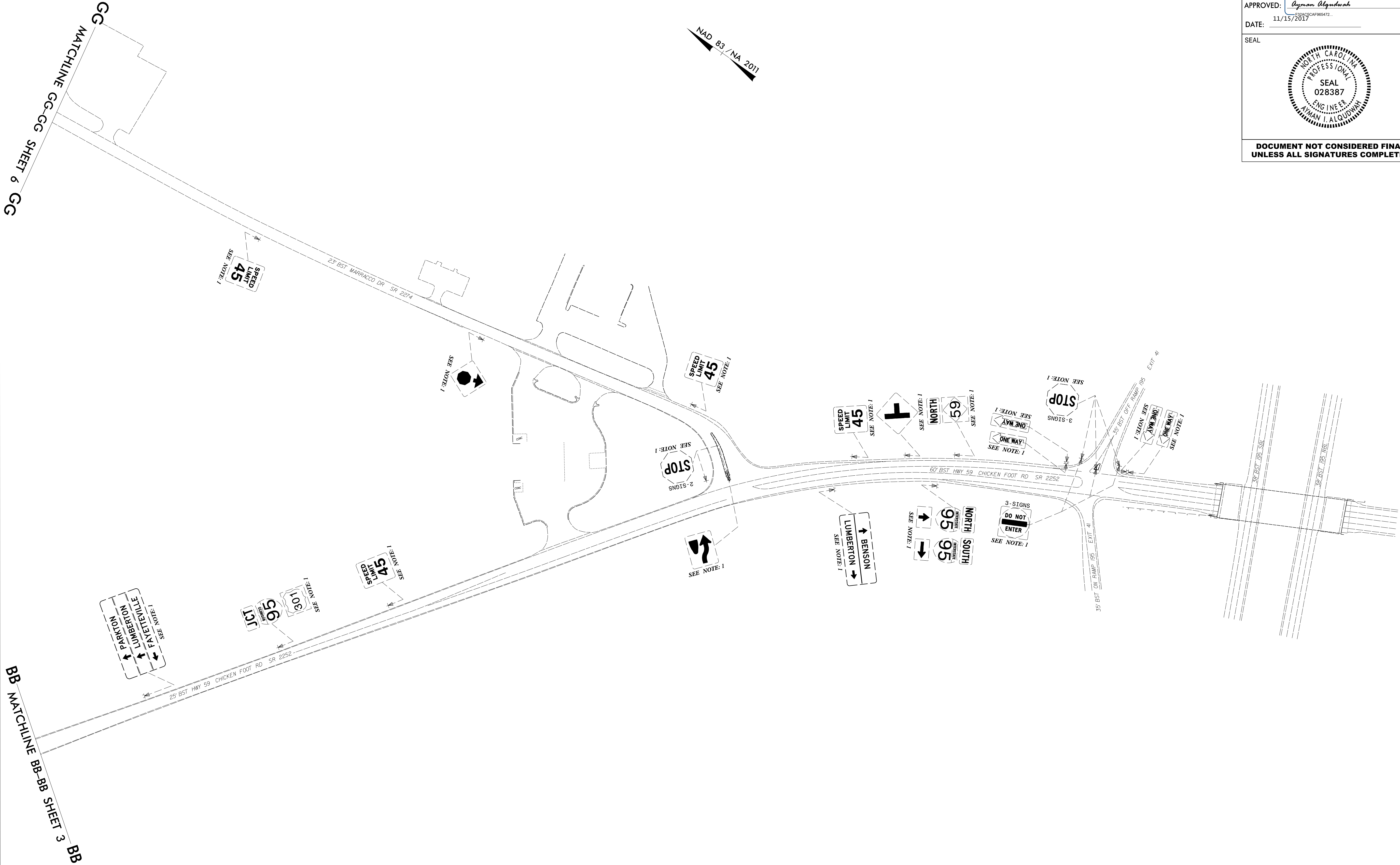
\\14\17
P:\TIP\Projects-B\B4491\Traffic\Signing\CADD\Signing Layout Plans\B-4491_SIGN-1.dgn
User:terlickard

11/4/17
P:\IP\Projects-B\B4491\Traffic\Signing\CA00\Signing Layout Plans\B-4491_SIGN-3.dgn
User: rickward



TIP NO. B-4491	SHEET NO. SIGN-3
APPROVED: <i>Ayman Alqoudwahi</i> F32AFSCAF065472	
DATE: 11/15/2017	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

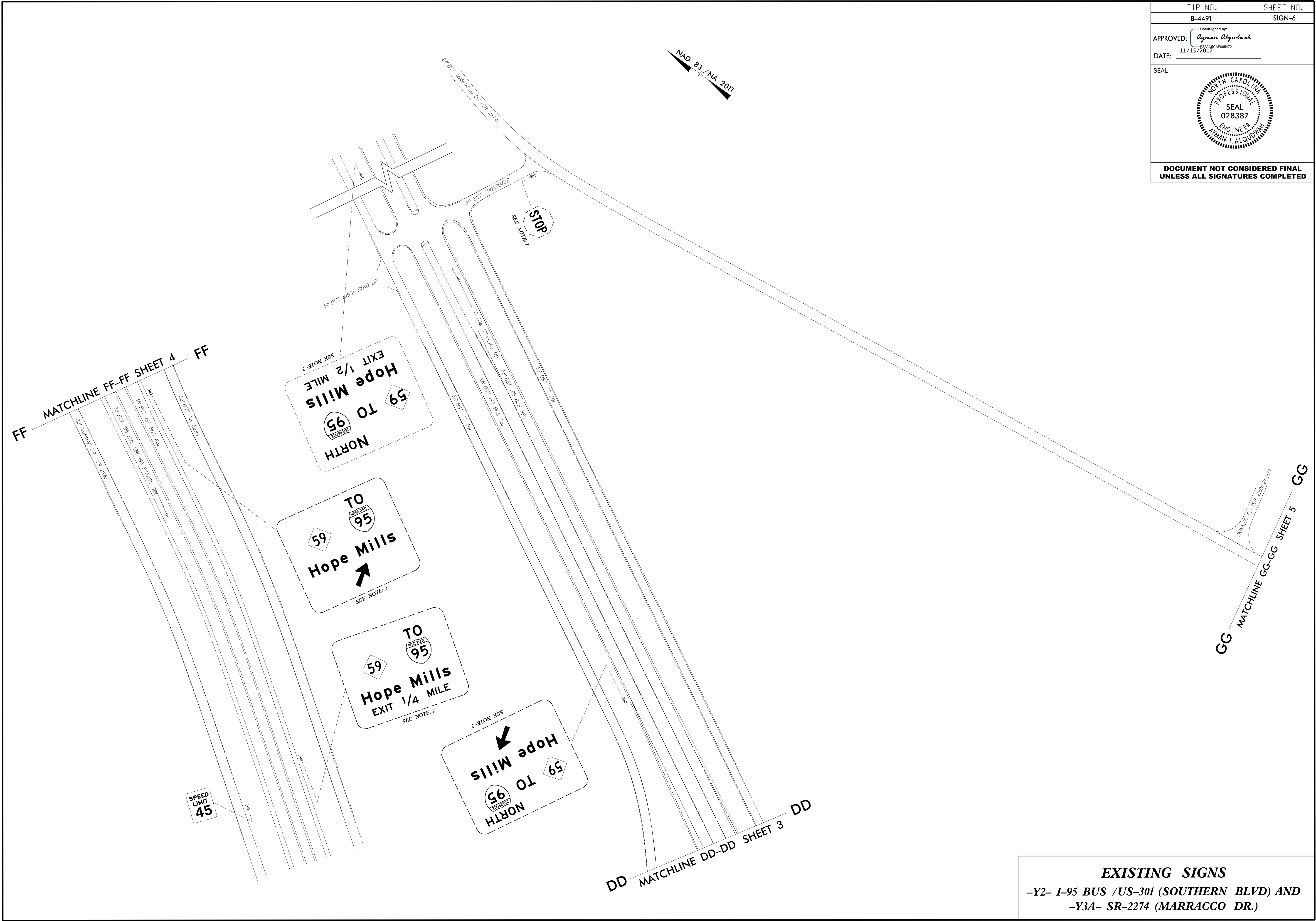
11/4/17
P:\11\Projects-B\B4491\Traffic\Signing\CA00\Signing Layout Plans\B-4491_SIGN-5.dgn
User:ericward



TIP NO. B-4491	SHEET NO. SIGN-5
APPROVED: <i>Ayman Alqudwah</i> ES242SCAF065472	
DATE: 11/15/2017	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EXISTING SIGNS
-L- NC 59 (CHICKEN FOOT RD.) AND
-Y3A- SR 2274 (MARRACCO DR.)

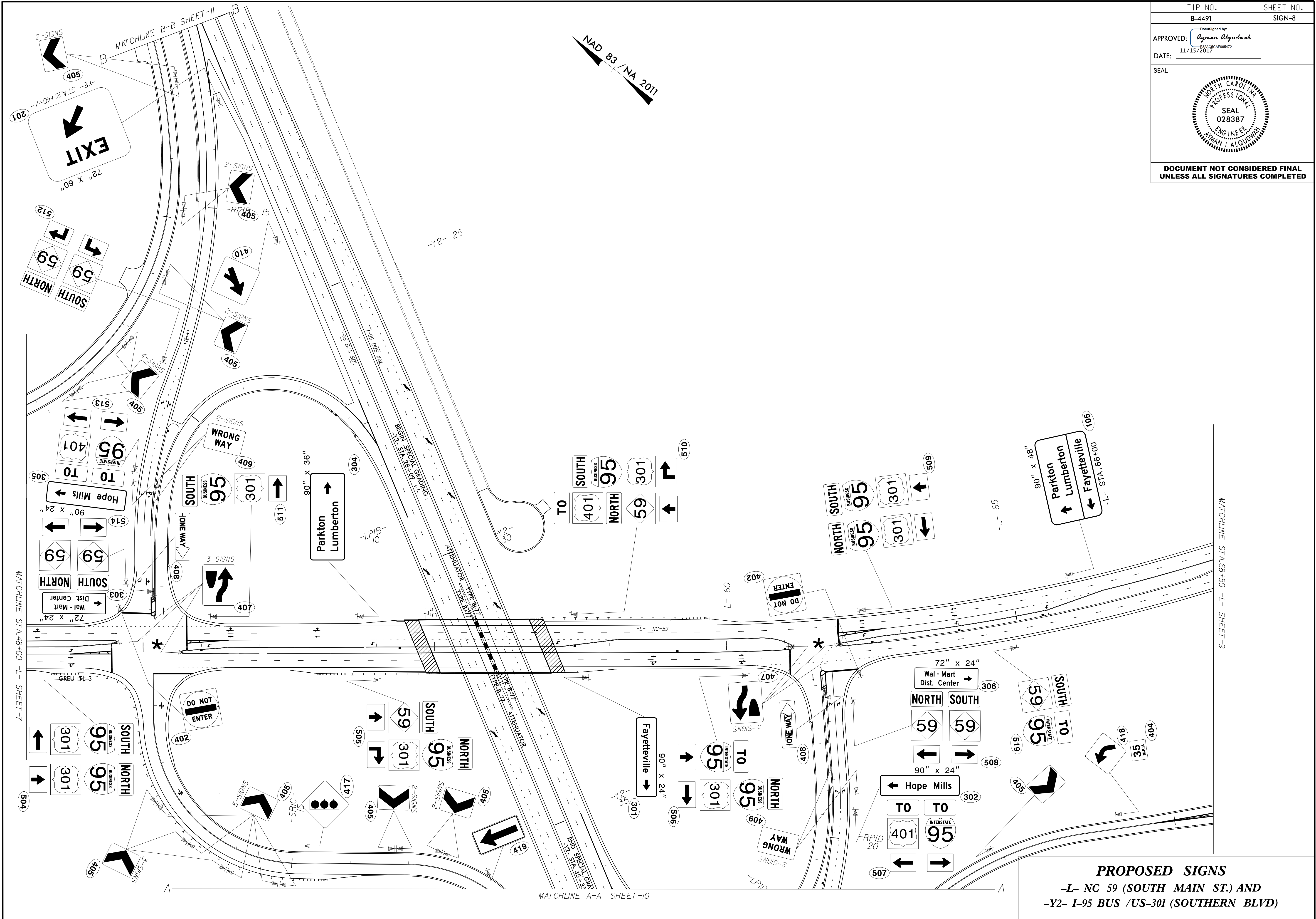
11/4/17
P:\11\Projects-B\B4491\Traffic\Signing\CA00\Signing Layout Plans\B-4491_SIGN-6.dgn
User:ericward



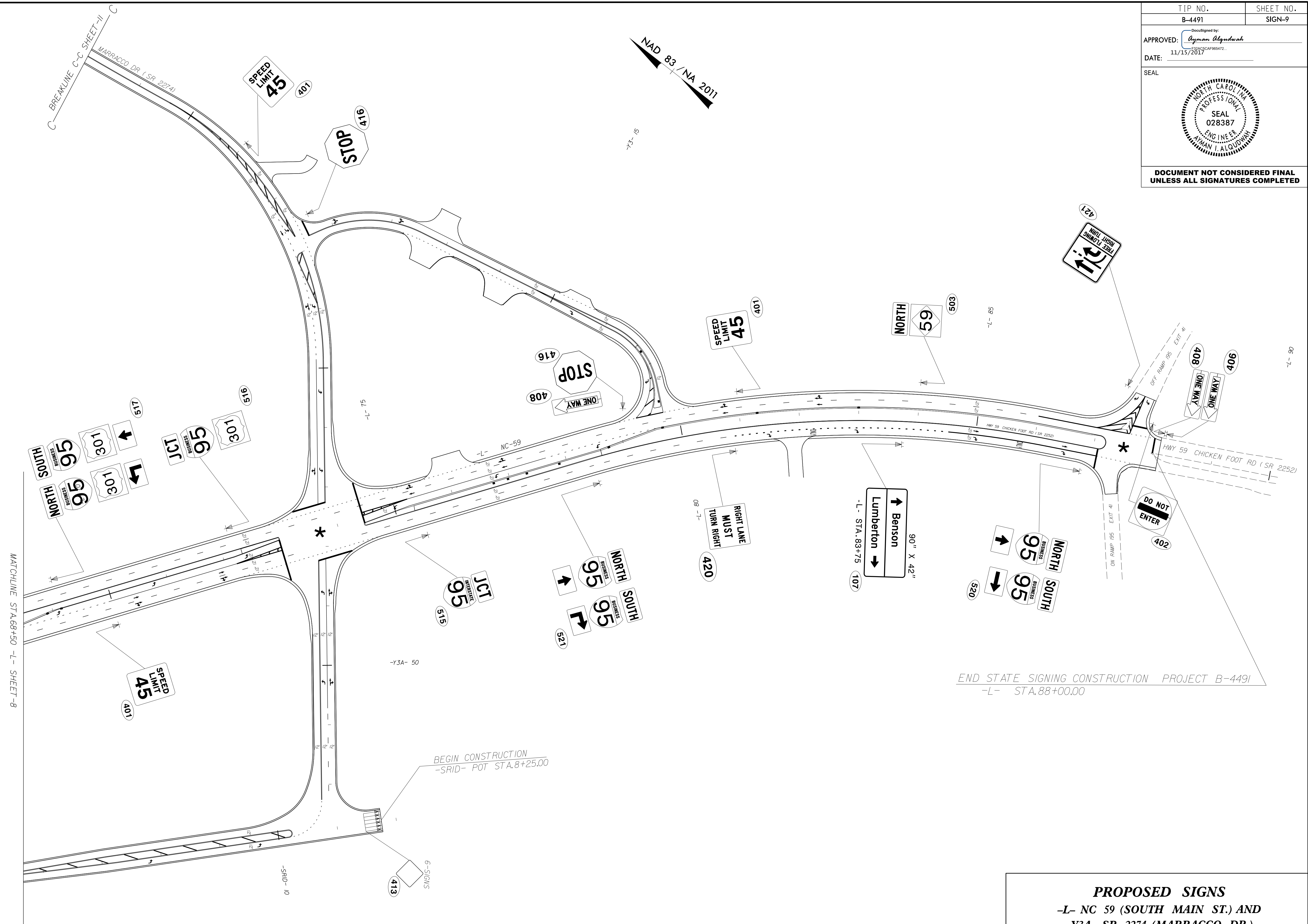
TIP NO. B-4491	SHEET NO. SIGN-6
APPROVED: <i>Ayman Alquodwah</i> F52AFSCAF065472...	
DATE: 11/15/2017	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

EXISTING SIGNS
-Y2- I-95 BUS /US-301 (SOUTHERN BLVD) AND
-Y3A- SR-2274 (MARRACCO DR.)

I:\4\17
P:\IP\Projects-B\B4491\Traffic\Signing\CA00\Signing Layout Plans\B-4491_SIGN-8.dgn
User:revieward

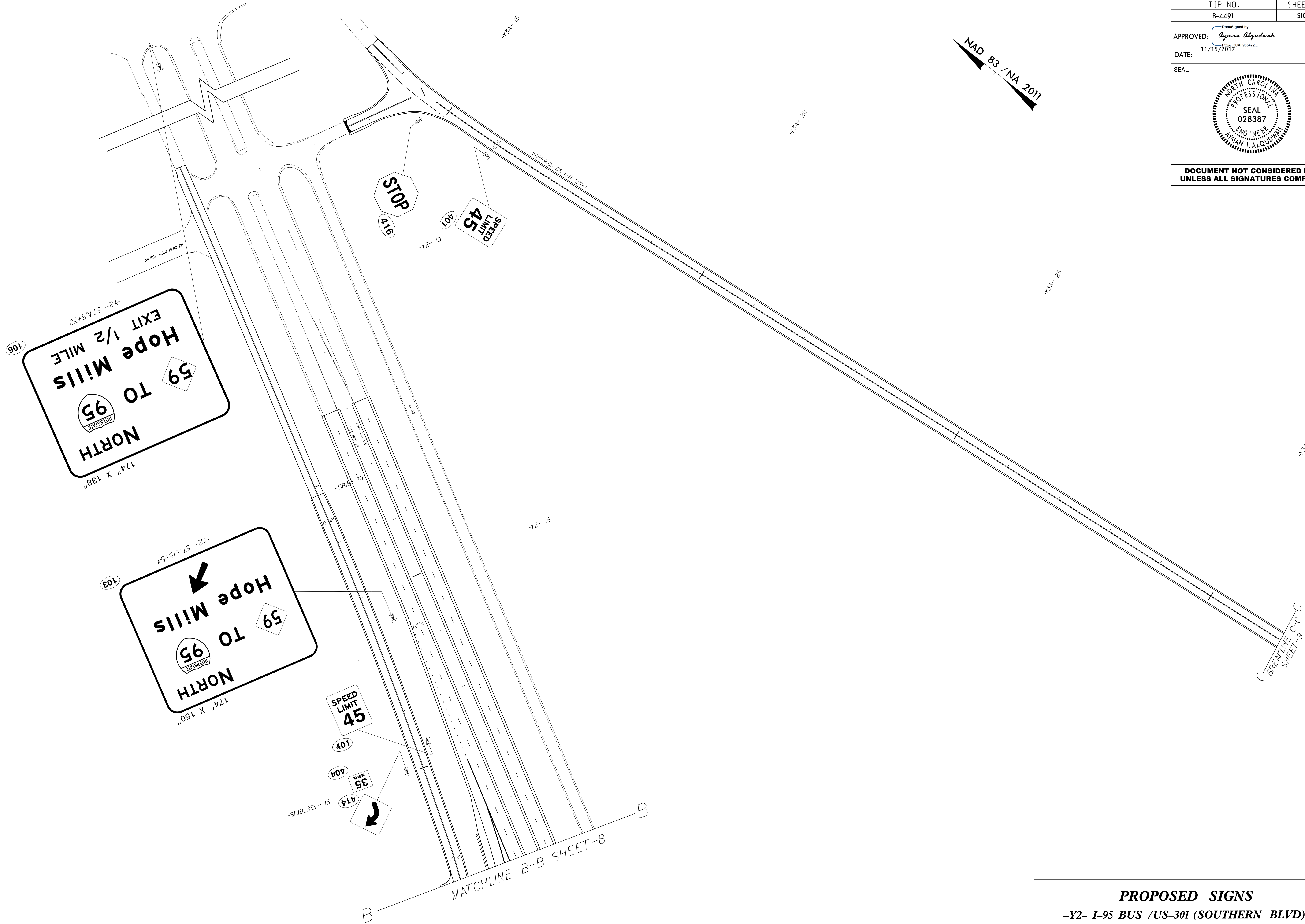


TIP NO. B-4491	SHEET NO. SIGN-8
DocuSigned by: <i>Ayman Alqudwah</i> F52AFCAF965472...	
APPROVED:	
DATE: 11/15/2017	
SEAL	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



PROPOSED SIGNS
-L- NC 59 (SOUTH MAIN ST.) AND
-Y3A- SR 2274 (MARRACCO DR.)

11/14/17
P:\11\Projects-B\B4491\Traffic\Signing\CA00\Signing Layout Plans\B-4491_SIGN-11.dgn
User:rlward



TIP NO. B-4491	SHEET NO. SIGN-11
DocuSigned by: <i>Ayman Alqudwah</i> E32AF5CAF965472...	
APPROVED: 11/15/2017	
DATE:	
SEAL 	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

PROPOSED SIGNS
-Y2- I-95 BUS /US-301 (SOUTHERN BLVD)
-Y3A- SR 2274 (MARRACCO DR.)