

2/2/2024
R:\Traffic\Signing\CADD\Signing_Layout_Plane\B5982_sgn_psh_01.dgn
User:jtownsend

T.I.P.: B-5982

CONTRACT: C204925

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLAN
HAYWOOD COUNTY

LOCATION: TOWN OF CLYDE – REPLACE BRIDGE 430095 ON US 74 OVER
BLUE RIDGE SOUTHERN RAILROAD

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	1.00	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	578	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	15	L.F.
4108000000	904	SIGN ERECTION, TYPE F	1	EA.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)	9	EA.
4109000000	904	SIGN ERECTION, TYPE B (OVERHEAD)	3	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	1	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	2	EA.
4234000000	907	DISPOSAL OF SIGN, A OR B (OVERHEAD)	10	EA.

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 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
901.10	TYPE 'A' SIGNS
901.50	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
904.20	SECONDARY SIGN MOUNTING
904.30	SUPPLEMENTAL SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

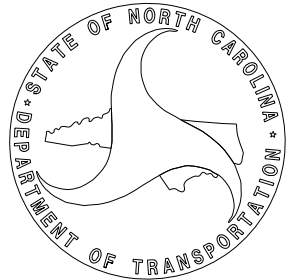
- . SIGNS FURNISHED BY STATE.
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE 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.

INDEX

SHEET NO.	DESCRIPTION
SGN-1	TITLE SHEET
SGN-2	SUPPORT INFORMATION
SIGN-3-3D	SIGN DESIGNS AND OVERHEAD DETAILS
SGN-4-5	EXISTING AND PROPOSED SIGNS

PLAN SUBMITTED TO:

Davis S. Stutts, PE



PLAN PREPARED BY: VHB Engineering NC, P.C.

John Townsend, PE Project Engineer



940 Main Campus Drive, Suite 500 Raleigh, NC 27605
NC License No. C-3705

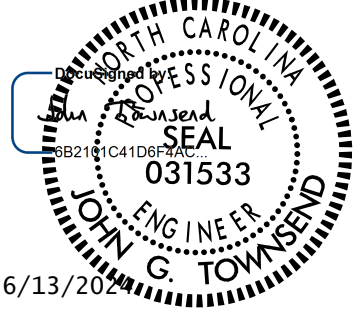
TIP NO.	SHEET NO.
B-5982	SGN-1
APPROVED: _____	
DATE: _____	
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TIP NO.
B - 5982

SHEET NO.
SGN - 2

APPROVED: _____
DATE: _____

SEAL



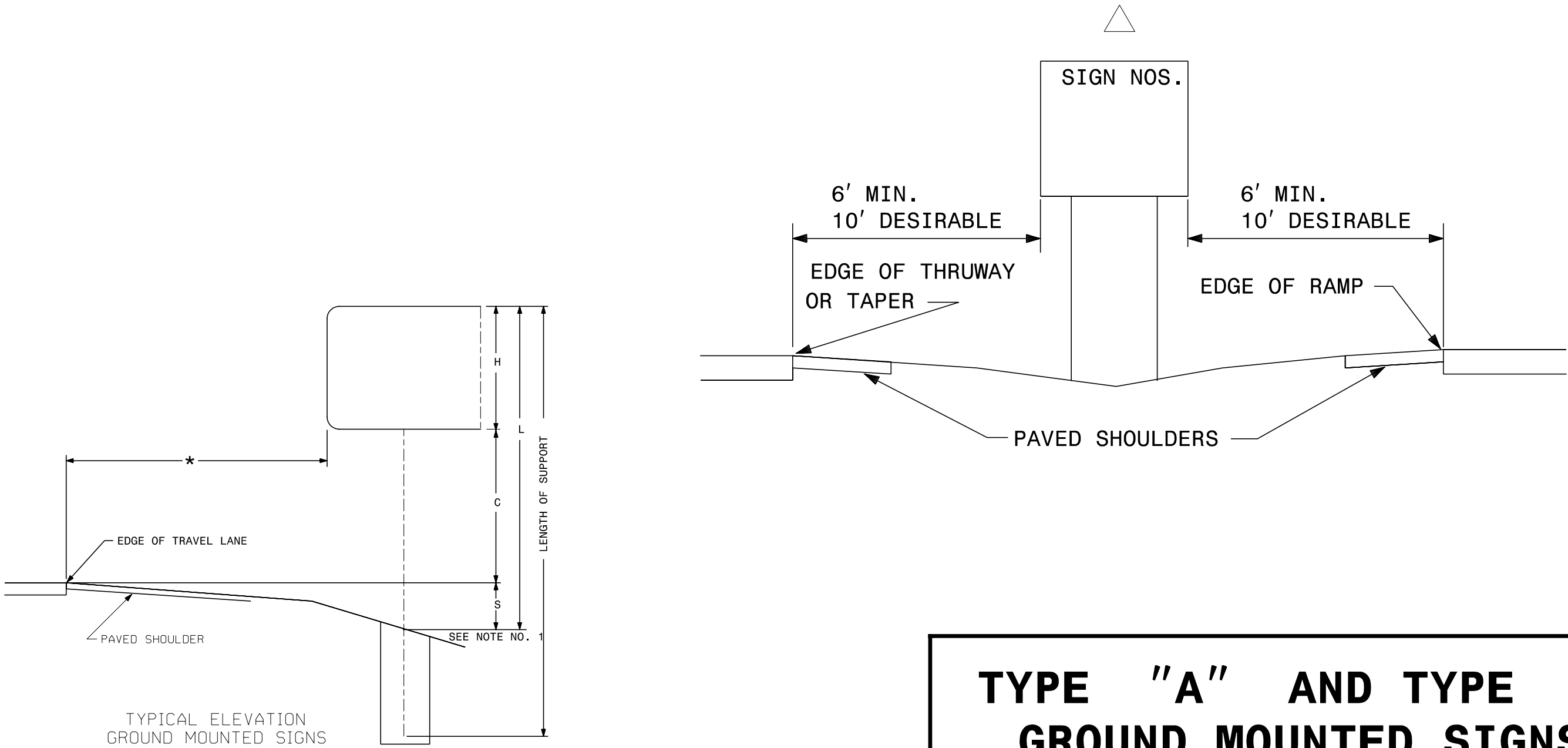
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED



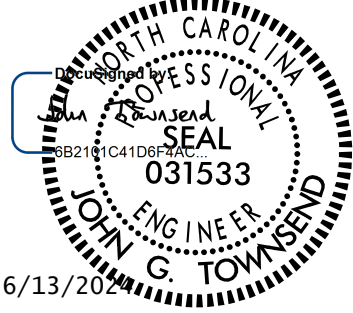
SIGN					ROADWAY STATION	NUMBER OF SUPPORTS	BEAM SECTION	SUPPORT TYPE BA or S	OMNI COUPLER	ATTACHMENT METHOD	MOUNTING METHOD	HORIZONTAL CLEARANCE* (ft.)	SUPPORT SPACING	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			SUPPORT WEIGHTS		FOOTINGS				FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)		
														SNS HT	MTG HT	EMBED- MENT												DIA	DEPTH	REINFORCED	PLAIN			
NUMBER	TYPE	SIZE (in.)												B/A (lbs.)	SIMPLE (lbs.)	DIA (ft.)	DEPTH (ft.)	REINFORCED (c.y.)	PLAIN (c.y.)															
		w	x	h																														
101	A	180	x	90	19+25	2	W6x12	BA	N/A	N/A	N/A	30.00	8.79	7.50	7.00	3.5	2.80	17.30	20.80	0.00	0.00	0.00	2.80	17.30	20.80	577.20	0	1.5	4	0.52	0.00			
																												TOTAL	TOTAL		TOTAL	TOTAL		
																												577.20	0.00		0.52	0.00		
																												USE:	578.00	0.00		1.00	0.00	

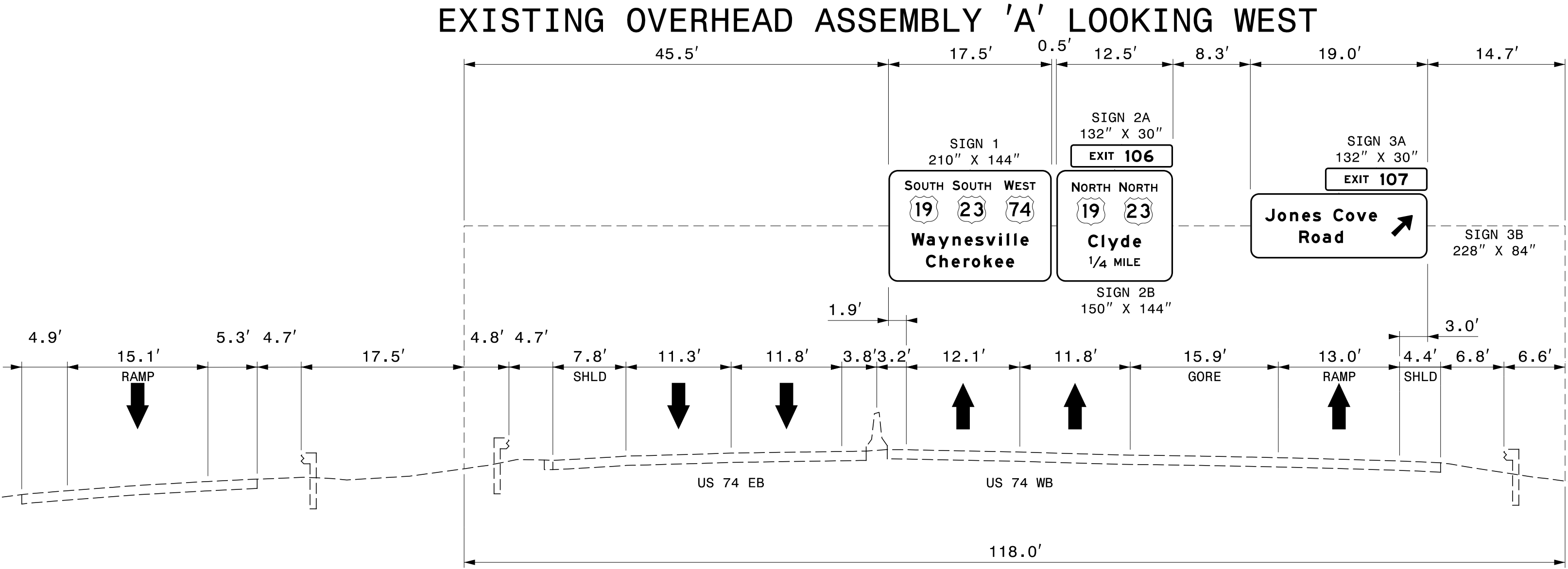
NOTES

1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF TRAVEL LANE.
2. 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
3. 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.



2/2/2024
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User:jtownsend

TIP NO.	SHEET NO.
B - 5982	SGN - 3
APPROVED: _____	
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-L- STA. 9+01

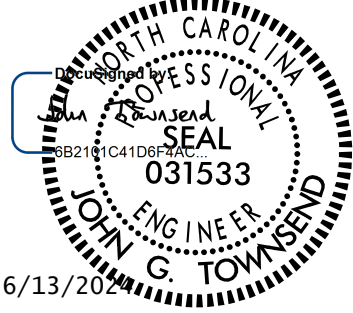
NOTES:

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.

SEE NCDOT STANDARD SPECIFICATIONS, SECTION 1076-6 FOR REPAIR OF GALVANIZING.

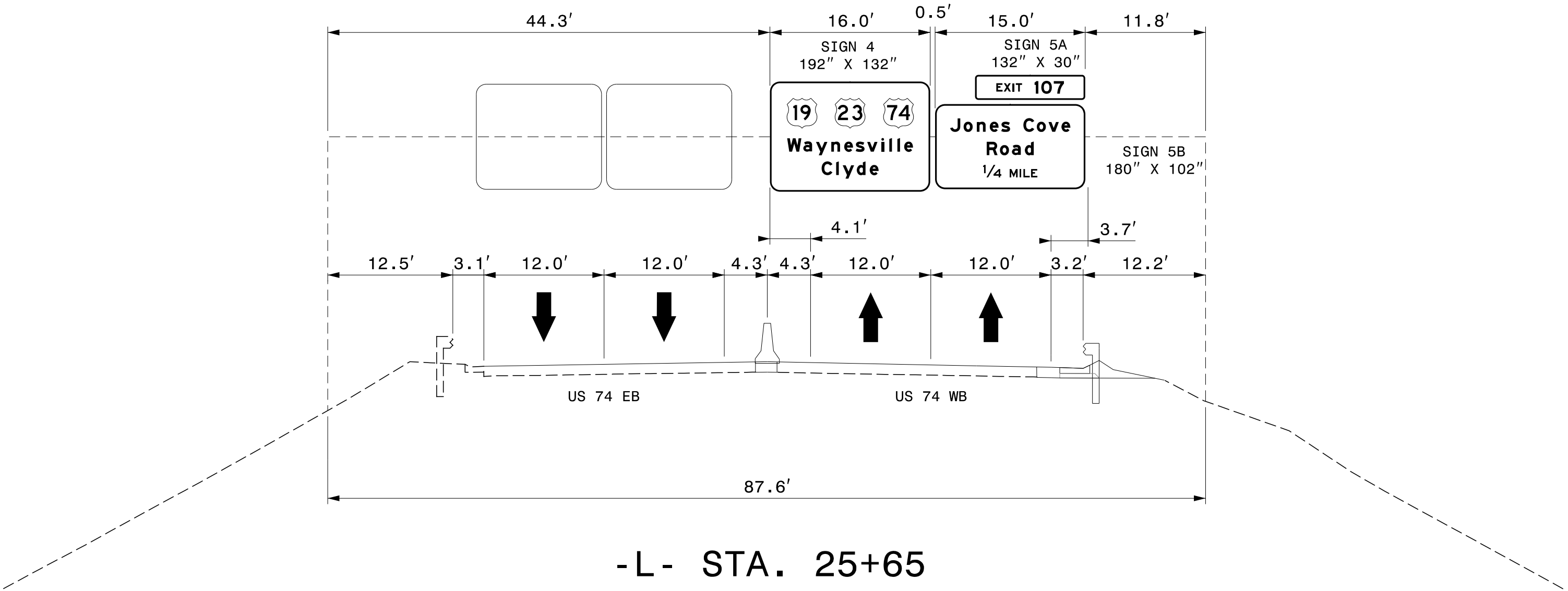
ERECT SIGN PANELS WITH MINIMUM 18' VERTICAL CLEARANCE.

EXISTING OVERHEAD
ASSEMBLY 'A'

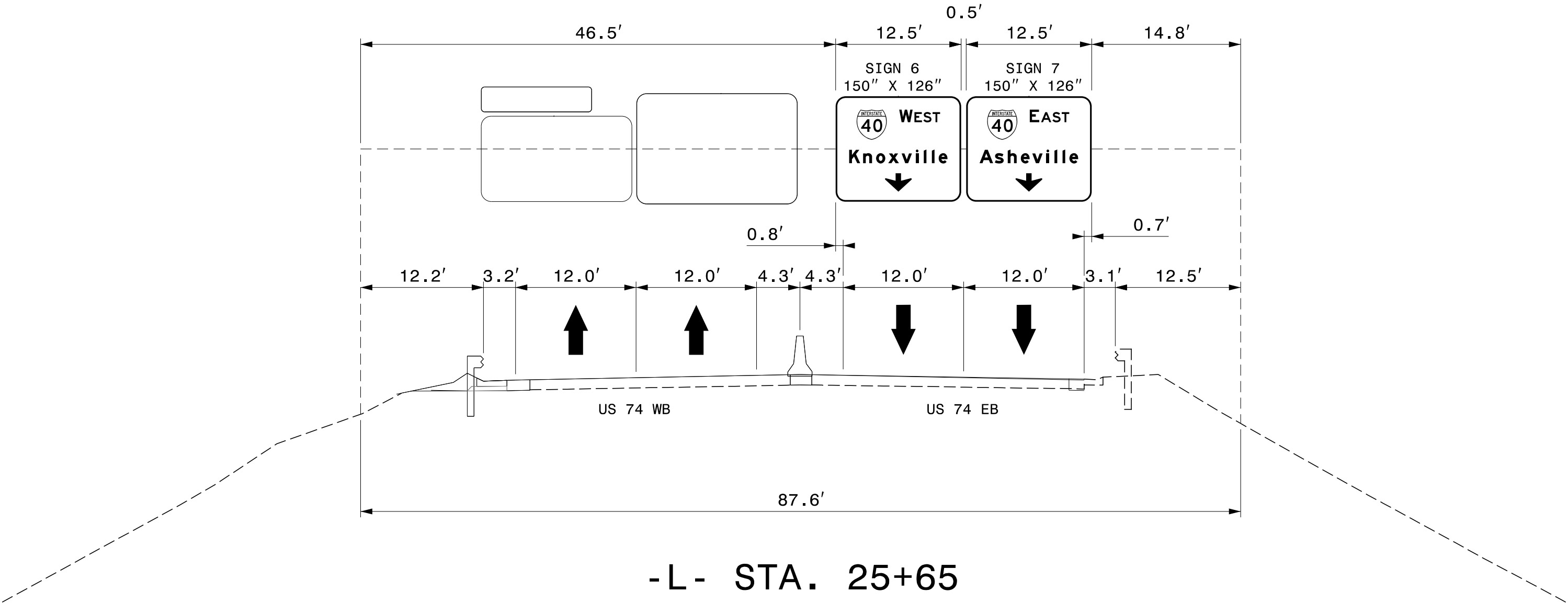
TIP NO.	SHEET NO.
B-5982	SGN-3A
APPROVED: _____	
DATE: _____	
SEAL	
	
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EXISTING OVERHEAD ASSEMBLY 'B' LOOKING WEST



EXISTING OVERHEAD ASSEMBLY 'B' LOOKING EAST



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.

SEE NCDOT STANDARD SPECIFICATIONS, SECTION 1076-6 FOR REPAIR OF GALVANIZING.

ERECT SIGN PANELS WITH MINIMUM 18' VERTICAL CLEARANCE.

EXISTING OVERHEAD
ASSEMBLY 'B'

SIGN NUMBER: 1	BACKG COLOR: Green
TYPE: A	COPY COLOR: White
QUANTITY: 1	
SIGN WIDTH: 17'-6"	
HEIGHT: 12'-0"	
TOTAL AREA: 210.0 Sq.Ft.	
BORDER TYPE: FLUSH	
RECESS: 0"	
WIDTH: 2"	
RADII: 12"	
NO. Z BARS: 3	
LENGTH: 20.0	

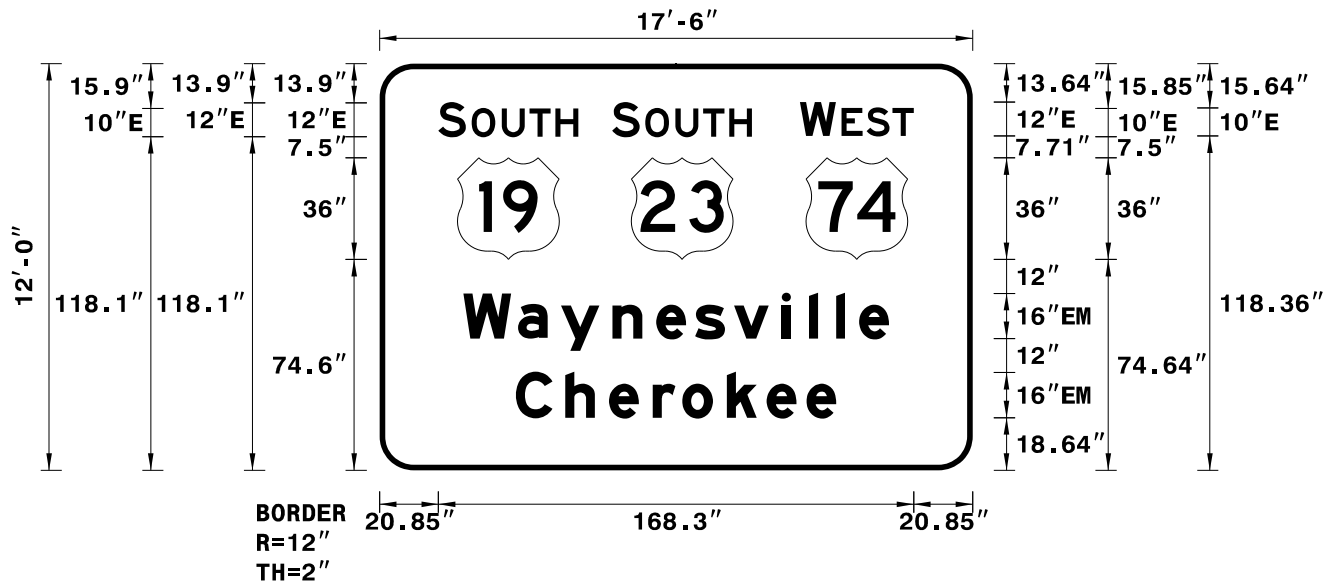
SYMBOL	X	Y	WID	HT
M1_4	27.6	74.6	36	36
M1_4	89.1	74.6	36	36
M1_4	151	74.6	36	36

MAT'L: 0.125" (3.2 mm) ALUMINUM

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 with Grade C reflective sheeting and demountable.

DESIGN BY: VHB
PROJECT ID: B-5982
CHECKED BY:
LOCATION:
Feb 01, 2024
DIV: 14



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size Text Length
	S		O	U	T	H									E 2000
20.8	9.7	2	10.7	9.8	9.2	8.1	139.6								49.5
	S		O	U	T	H									E 2000
82.4	9.7	2	10.7	9.8	9.2	8.1	78.1								49.5
	W		E	S	T										E 2000
148.8	12.7	2	8.9	9.2	7.5	20.8									40.3
	W		a	y	n	e	s	v	i	l	l	e			EM 2000
29.6	19.4	15.2	18.2	15.5	13.8	13.8	17	9.6	9.6	8.2	10.6	29.6			150.7
	C		h	e	r	o	k	e	e						EM 2000
48.3	17.4	15.5	15.5	10.4	15.8	14.1	14.1	10.6	48.3						113.4

FILENAME: B5289_sgn_001

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 2B	BACKG COLOR: Green
TYPE: A	COPY COLOR: White
QUANTITY: 1	
SIGN WIDTH: 12'-6"	
HEIGHT: 12'-0"	
TOTAL AREA: 150.0 Sq.Ft.	
BORDER TYPE: FLUSH	
RECESS: 0"	
WIDTH: 2"	
RADII: 12"	
NO. Z BARS: 3	
LENGTH: 142.0	

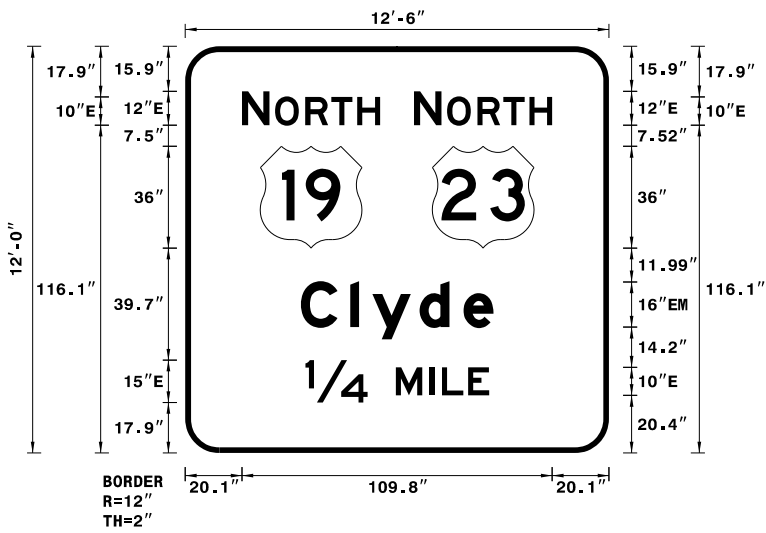
SYMBOL	X	Y	WID	HT
M1_4	26.5	72.6	36	36
M1_4	87.5	72.6	36	36

MAT'L: 0.125" (3.2 mm) ALUMINUM

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 with Grade C reflective sheeting and demountable.

DESIGN BY: VHB
PROJECT ID: B-5982
CHECKED BY:
LOCATION:
Feb 06, 2023
DIV: 14



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size Text Length
	N		O	R	T	H									E 2000
20.1	9.7	2	10.7	9.2	9.2	8.1	81								48.9
	N		O	R	T	H									E 2000
81	9.7	2	10.7	9.2	9.2	8.1	20.1								48.9
	C		l	y	d	e									EM 2000
40.9	17.4	7.8	16.8	15.5	10.6	40.9									68.2
	1/4		M	I	L	E									E 2000
42.5	22	10	12	4.4	9.2	7.5	42.4								65.1

FILENAME: B5289_sgn_002B

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 2A	BACKG COLOR: Green
TYPE: B	COPY COLOR: White
QUANTITY: 1	
SIGN WIDTH: 11'-0"	
HEIGHT: 2'-6"	
TOTAL AREA: 27.5 Sq.Ft.	
BORDER TYPE: FLUSH	
RECESS: 0"	
WIDTH: 2"	
RADII: 4"	
NO. Z BARS: 2	
LENGTH: 124.0	

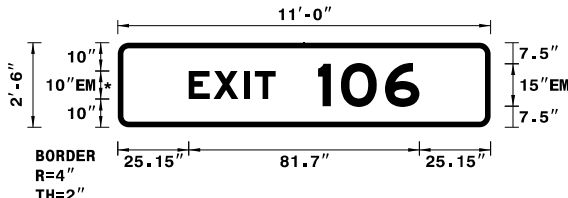
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

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.

DESIGN BY: VHB
PROJECT ID: B-5982
CHECKED BY:
LOCATION:
Feb 06, 2023
DIV: 14



* Spacing Factor is 1.20

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size Text Length
	E	X	I	T		1	0	6							EM 2000
25.2	8.8	10.8	3.8	7.4	15	8.1	15.6	12.2	25.2						81.7

FILENAME: B5289_sgn_002A

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 3A, 5A	BACKG COLOR: Green
TYPE: B	COPY COLOR: White
QUANTITY: 2	
SIGN WIDTH: 11'-0"	
HEIGHT: 2'-6"	
TOTAL AREA: 27.5 Sq.Ft.	
BORDER TYPE: FLUSH	
RECESS: 0"	
WIDTH: 2"	
RADII: 4"	
NO. Z BARS: 2	
LENGTH: 124.0	

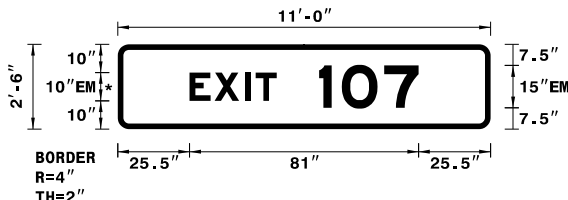
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

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.

DESIGN BY: VHB
PROJECT ID: B-5982
CHECKED BY:
LOCATION:
Feb 06, 2023
DIV: 14



* Spacing Factor is 1.20

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size Text Length
	E	X	I	T		1	0	7							EM 2000
25.5	8.8	10.8	3.8	7.4	15	8.1	15	12.2	25.5						81

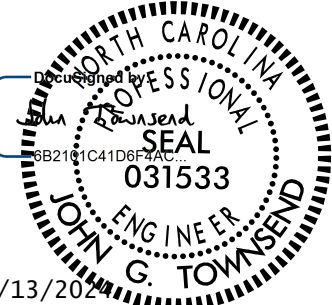
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NORTH CAROLINA D.O.T. SIGN DETAIL

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B-5982	SGN-3B
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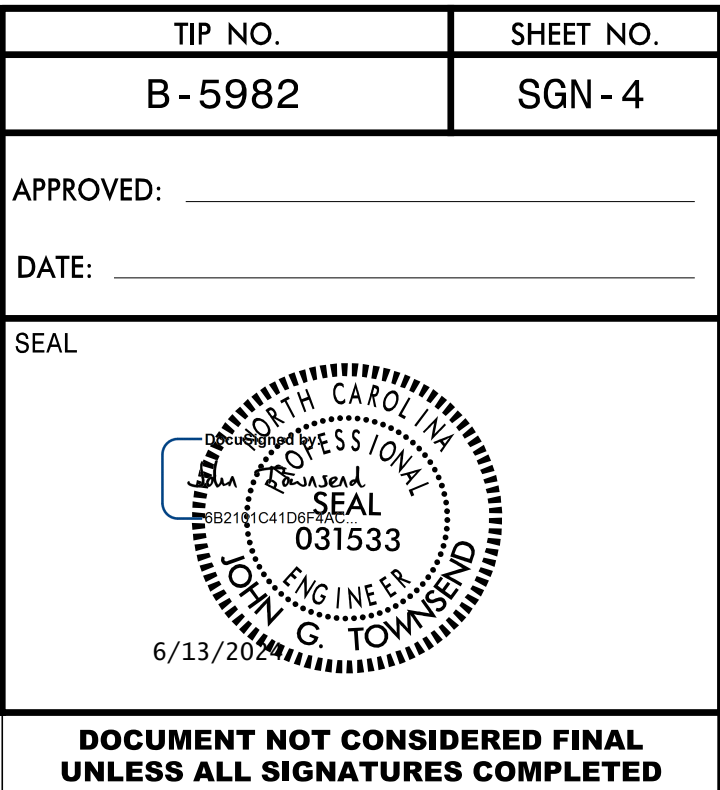
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TIP NO.		SHEET NO.	
B - 5982		SGN - 3C	
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DATE: _____			
SEAL			
			
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 Main Campus Drive, Suite 500 Raleigh, NC 27606 NC License No. C-3705			

SIGN DESIGNS

[illegible]

Main Campus Drive, Suite 500 Raleigh, NC 27606
 NC License No. C-3705



EXISTING AND PROPOSED SIGNS

2/2/2024
R:\Traffic\Signing\CADD\Signing_Layout_Plane\B5982_sgn_psh_05.dgn
User:jtownsend

MATCHLINE -L- STA. 22 + 00.00
SEE SHEET SGN-4

EXISTING OVERHEAD ASSEMBLY 'B'
-L- STA. 25+65



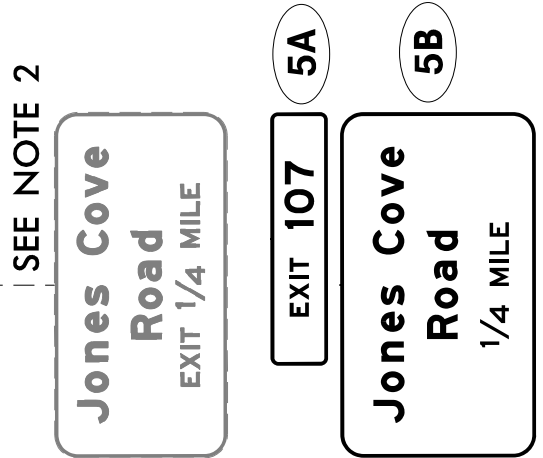
SEE NOTE 2

SEE NOTE 2

-Y4- SR 1633
(NORTHWOOD DR)



SEE NOTE 2



SEE NOTE 2

4

SR 1523 (OLD CLYDE RD)

PIGEON RIVER

SR 1513 (HYDER MOUNTAIN RD)

-L- US 74

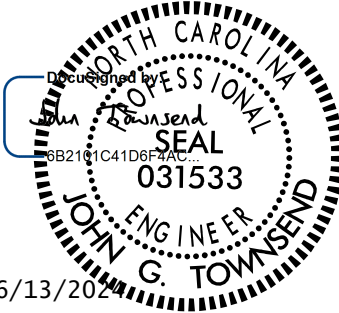


TIP NO.	SHEET NO.
B-5982	SGN-5

APPROVED: _____

DATE: _____

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EXISTING AND PROPOSED SIGNS

RETAIN ALL EXISTING SIGNS UNLESS OTHERWISE NOTED.

- 1 DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- 2 DISPOSAL OF SIGN, A OR B (OVERHEAD)
- 3 SIGN ERECTION, TYPE A (OVERHEAD)
- 4 SIGN ERECTION, TYPE A (GROUND MOUNTED)
- 5 SIGN ERECTION, TYPE D, E, AND F