

T.I.P.: B-4497

CONTRACT:

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN
DAVIDSON COUNTY**

LOCATION: REPLACE BRIDGE 39 OVER US 29-70 /I-85 BUS ON US 64

TIP NO. B-4497	SHEET NO. SIGN-1
APPROVED:	
DATE: 0/21/12	
SEAL 	

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 2012 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 (SHEETS 1 AND 3)
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

GENERAL NOTES

- . SIGNS FURNISHED BY STATE
- . 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

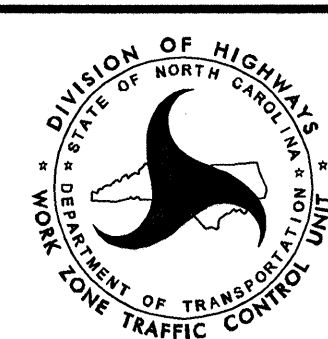
ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	4	C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1	C.Y.
4057000000	SP	OVERHEAD FOOTING	6	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	1268	LB.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM	2020	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	1030	L.F.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "10+50 -L-"	1	L.S.
4096000000	904	SIGN ERECTION, TYPE D	1	EA.
4102000000	904	SIGN ERECTION, TYPE E	48	EA.
4108000000	904	SIGN ERECTION, TYPE F	6	EA.
4109000000	904	SIGN ERECTION, TYPE A (OVERHEAD)	2	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	6	EA.
4152000000	907	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	4	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	52	EA.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2-2A	SUPPORT INFORMATION AND GROUND MOUNT SHEETS
SIGN-3	OVERHEAD STRUCTURE DRAWING
SIGN-4-5	TYPE A AND D SIGN DETAILS
SIGN-6	TYPE E AND F SIGNS
SIGN-7-8	EXISTING SIGNS
SIGN-9-10	PROPOSED SIGNS

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


SUSAN B. KUNZ SIGNING & DELINEATION REGIONAL MANAGER
STACEY JOHNS SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PLAN PREPARED BY: Ramey Kemp & Associates

W. JASON HAMILTON PROJECT MANAGER
NICHOLAS E. BURNS PROJECT ENGINEER



TIP NO. B-4497	SHEET NO. SIGN-2
APPROVED: <i>[Signature]</i>	
DATE: 8/21/12	
SEAL	
	

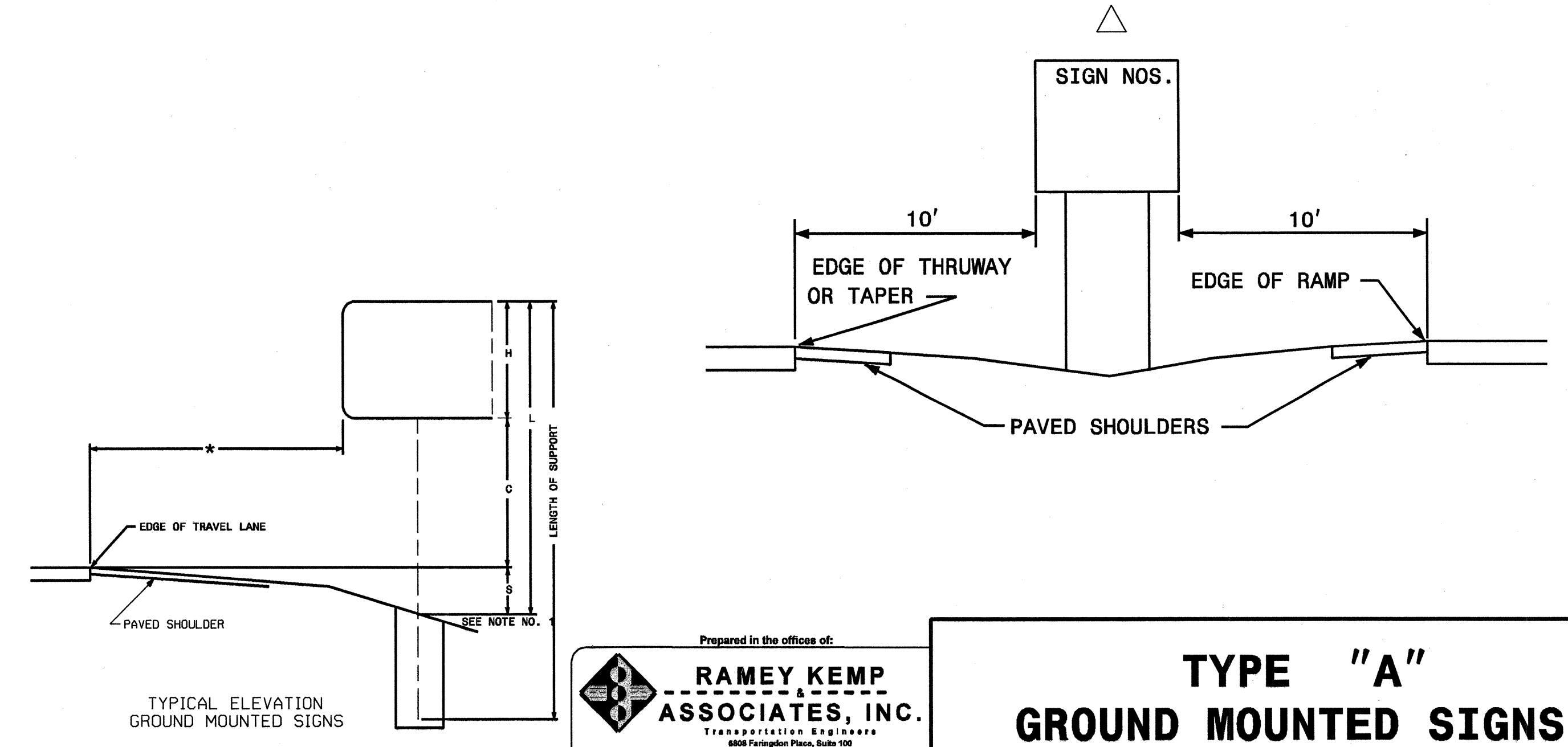
TYPE "A" GROUND MOUNTED SIGN SUPPORTS

SIGN NO.	SIGN TYPE	SIGN SIZE (in.)		ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (ft.)	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			FOOTING DIAMETER (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	PLAIN FTGS. (c.y.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)																
		w	x								h	SNS HT H	MTG HT C	EMBEDMENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L								TOTAL LENGTH															
* 101	A	162	X	120	2	W8x21	S	N/A	N/A	18.00	10.00	7.00	5.5	2.46	19.46	24.96	0.00	0.00	0.00	5.44	22.44	27.94	2	6	0.00	1110.90	1.40	0.00																	
102	A	162	X	120	2	W8x21	S	N/A	N/A	18.00	10.00	14.07	5.5	-5.81	18.26	23.76	0.00	0.00	0.00	-10.07	14.00	19.50	2	6	0.00	908.46	1.40	0.00																	
* 103	A	84	X	120	2	W6x12	BA	N/A	N/A	20.00	10.00	7.00	4.5	0.50	17.50	22.00	0.00	0.00	0.00	0.50	17.50	22.00	1.5	5	613.36	0.00	0.65	0.00																	
201	A	72	X	60	2	S3x5.7	BA	N/A	N/A	10.00	5.00	7.00	3.5	0.50	12.50	16.00	0.00	0.00	0.00	0.50	12.50	16.00	1	4	217.93	0.00	0.00	0.23																	
202	A	72	X	60	2	S3x5.7	BA	N/A	N/A	10.00	5.00	7.00	3.5	0.50	12.50	16.00	0.00	0.00	0.00	0.50	12.50	16.00	1	4	217.93	0.00	0.00	0.23																	
203	A	72	X	60	2	S3x5.7	BA	N/A	N/A	10.00	5.00	7.00	3.5	0.50	12.50	16.00	0.00	0.00	0.00	0.50	12.50	16.00	1	4	217.93	0.00	0.00	0.23																	
																						TOTAL	1267.16	TOTAL	2019.36	TOTAL	3.45	TOTAL	0.70																
																						USE:	1268	2020	4	1																			

* "S" DIMENSIONS FOR SIGNS 101 AND 103 WERE ESTIMATED. ACTUAL "S" DIMENSIONS MAY VARY SIGNIFICANTLY.

NOTES

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



Prepared in the office of:

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TIP NO. B-4497	SHEET NO. SIGN-2A
APPROVED: <i>R.W.F.</i>	
DATE: 3/8/12	
SEAL	

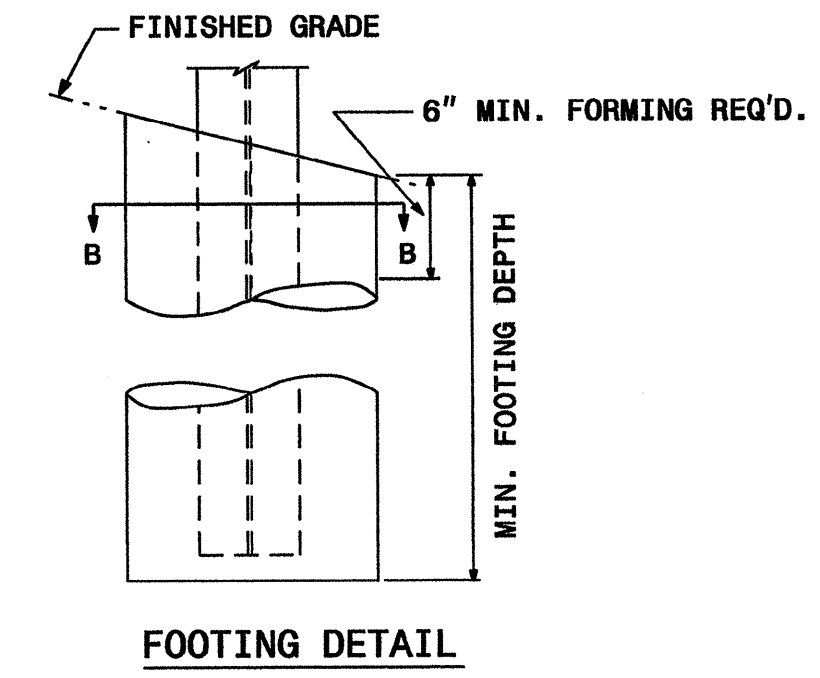
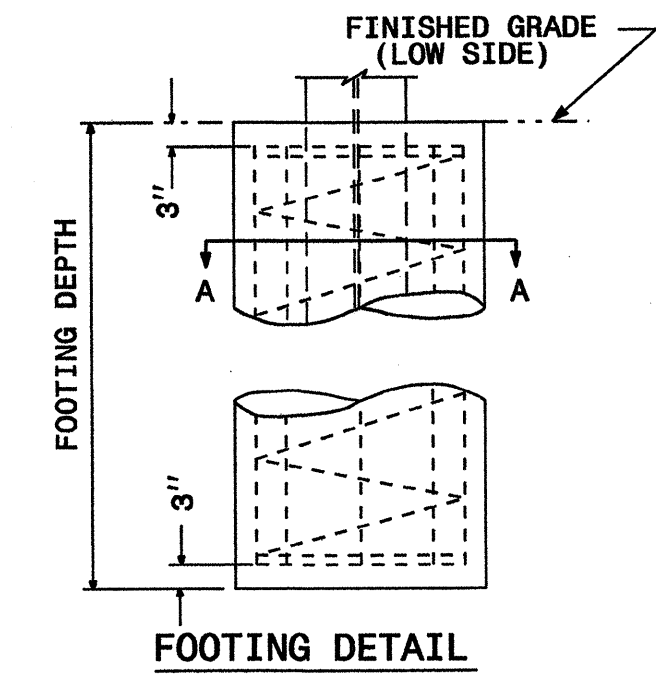
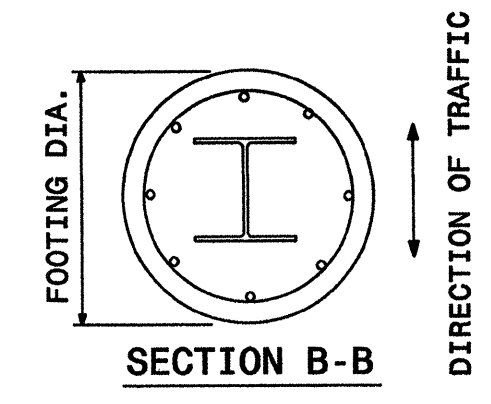
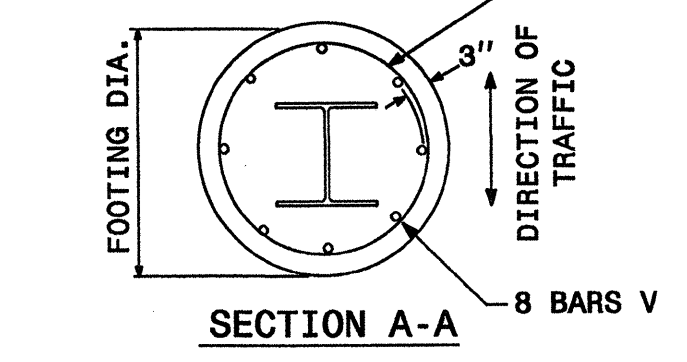
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

BEAM SHAPE	SLIP BASE PLATE DATA							KEEPER PLATE DATA							HINGE CONNECTION DATA							BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.				
	BOLT SIZE	A ₁	B ₁	C ₁	D ₁	E ₁	T ₁	R ₁	A ₂	B ₂	C ₂	D ₂	E ₂	R ₂	T ₂	BOLT SIZE	F	G	H	I	J		K	L	R ₃	T ₃
S3X5.7	1/2"DIA. X 3"	7"	4"	1"	3/4"	2 1/2"	1"	3/32"	7"	4"	1"	3/4"	2 1/2"	3/32"	28 GAUGE	1/2"DIA. X 1 1/4"	2 1/4"	3 1/2"	4"	1 1/2"	1"	1/2"	2"	3/32"	3/8"	18
S4X7.7	1/2"DIA. X 3"	8"	4"	1"	3/4"	2 1/2"	1"	3/32"	8"	4"	1"	3/4"	2 1/2"	3/32"	28 GAUGE	1/2"DIA. X 1 1/4"	2 5/8"	3 1/2"	4"	1 1/2"	1"	1/2"	2"	3/32"	3/8"	20
W6X9	1/2"DIA. X 3"	10"	5"	1"	3/4"	3 1/2"	1"	3/32"	10"	5"	1"	3/4"	3 1/2"	3/32"	28 GAUGE	1/2"DIA. X 1 1/4"	4"	3 1/2"	4"	3/4"	1"	1/2"	2"	3/32"	3/8"	32
W6X12	5/8"DIA. X 3 3/4"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/4"	11/32"	11"	5"	1 1/4"	7/8"	3 1/4"	11/32"	28 GAUGE	5/8"DIA. X 2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	11/32"	3/8"	39
W6X16	5/8"DIA. X 3 3/4"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	11/32"	12"	6"	1 1/4"	7/8"	4 1/4"	11/32"	28 GAUGE	5/8"DIA. X 2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	11/32"	1/2"	47
W8X18	5/8"DIA. X 4 1/4"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/2"	11/32"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	11/32"	28 GAUGE	5/8"DIA. X 2 1/4"	5 1/4"	4"	4 1/2"	1"	1 1/8"	5/8"	2 1/4"	11/32"	1/2"	70
W8X21	3/4"DIA. X 4 1/4"	14"	7"	1 1/2"	1"	5"	1 1/2"	13/32"	14"	7"	1 1/2"	1"	5"	13/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	1/2"	73
W10X22	3/4"DIA. X 4 1/4"	16"	8"	1 1/2"	1"	6"	1 1/2"	13/32"	16"	8"	1 1/2"	1"	6"	13/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	1/2"	119
W10X26	3/4"DIA. X 4 3/4"	16 1/2"	8"	1 1/2"	1"	6"	1 3/4"	13/32"	16 1/2"	8"	1 1/2"	1"	6"	13/32"	28 GAUGE	3/4"DIA. X 2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	5/8"	140
W12X26	3/4"DIA. X 4 3/4"	18 1/2"	9"	1 1/2"	1"	7"	1 3/4"	13/32"	18 1/2"	9"	1 1/2"	1"	7"	13/32"	28 GAUGE	3/4"DIA. X 2 3/4"	6 1/2"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	5/8"	176
W14X30	1"DIA. X 5"	22"	9"	2"	1 1/2"	6"	2"	17/32"	22"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3"	6 3/4"	7"	8"	1 1/4"	2"	1"	4"	17/32"	5/8"	205
W16X31	1"DIA. X 5"	24"	9"	2"	1 1/2"	6"	2"	17/32"	24"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3 1/4"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	223
W18X35	1"DIA. X 5"	25"	9"	2"	1 1/2"	6"	2"	17/32"	25"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3 1/4"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	243
W18X40	1"DIA. X 5 1/2"	26"	9"	2"	1 1/2"	6"	2 1/4"	17/32"	26"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3 3/4"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	278
W21X44	1"DIA. X 5 1/2"	29"	9"	2"	1 1/2"	6"	2 1/2"	17/32"	29"	9"	2"	1 1/2"	6"	17/32"	28 GAUGE	1"DIA. X 3 3/4"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	310

2" FLAT TURNS TOP AND BOTTOM (SEE NOTE 10)



FOUNDATION DATA *		
FOOTING DIAMETER	REINFORCEMENT	SPIRAL BAR
1' 6"	8 # 6 BARS	#3 BAR, 6" PITCH
2'	8 # 7 BARS	#3 BAR, 6" PITCH
2' 6"	8 # 9 BARS	#3 BAR, 6" PITCH
3'	8 # 11 BARS	#3 BAR, 6" PITCH
3' 6"	8 # 12 BARS	#3 BAR, 6" PITCH
4'	8 # 14 BARS	#3 BAR, 6" PITCH

* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS

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

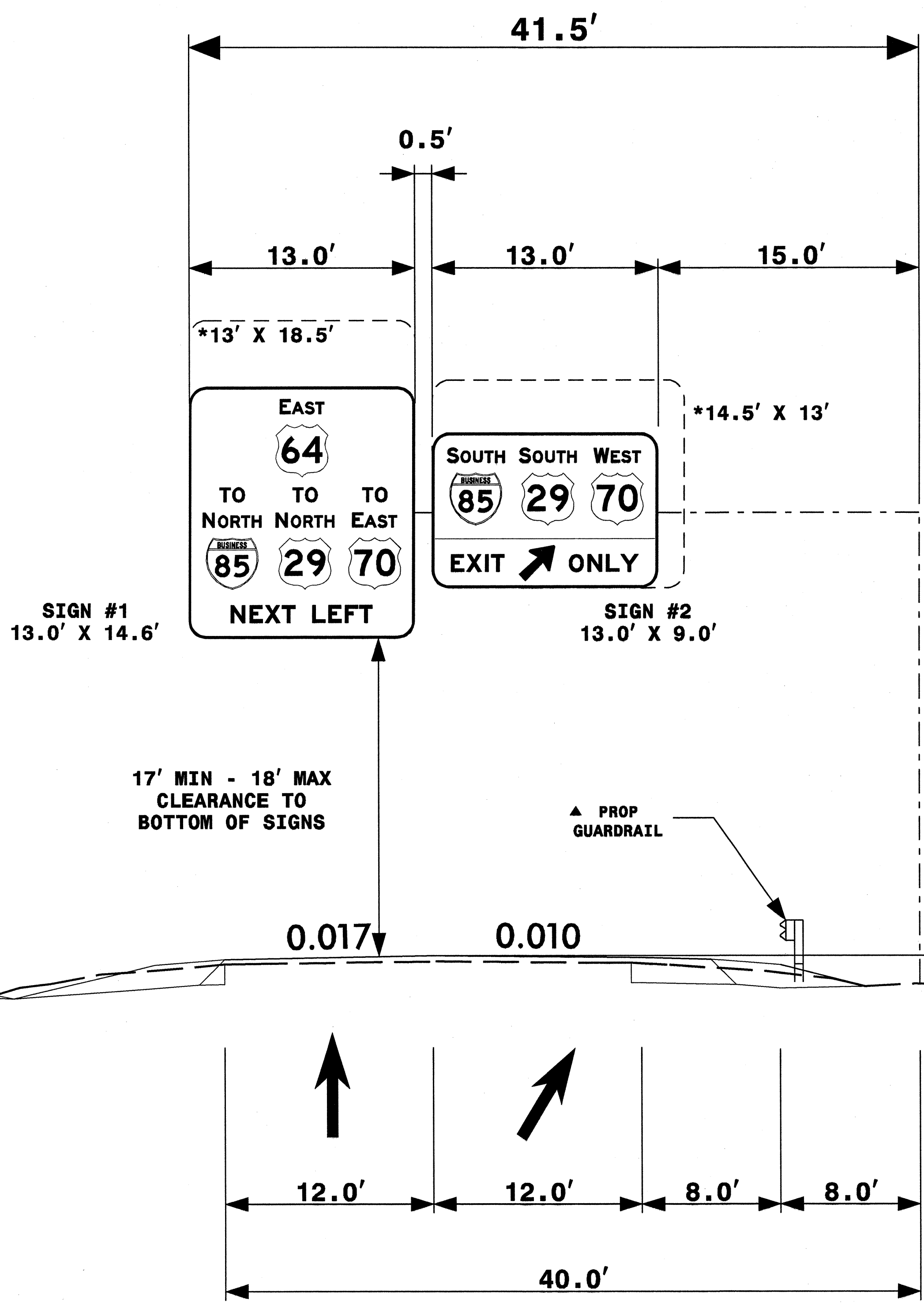
ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

**REVISED SIGNING
ROADWAY STANDARD DRAWING**

08-MAR-2012 11:01
S:\S&DU\Standard\Group\PM\2012 Standard Drawings\Standard Dwg 8-17-11\Revised\903D10_sgn_sht02.dgn support_T- Revised_Scaled.dgn
Distokes AT 1224745

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING. THESE DIMENSIONS ARE FOR FUTURE LARGE SIGNS.




NOTES:

- IF THE 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.
- 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 6 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.

▲ SEE ROADWAY PLANS FOR GUARDRAIL LOCATION

Prepared in the office of:



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 www.rameykemp.com

OVERHEAD SIGN ASSEMBLY
 AT STA. 10+50 -L-

APPROVED: *[Signature]*
DATE: 8/21/12



SIGN NUMBER: 1
TYPE: A
QUANTITY: 1
SIGN WIDTH: 13'-0"
HEIGHT: 14'-6"
TOTAL AREA: 189.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.5"
RADIUS: 12"
NO. Z BARS: 5
LENGTH: 148.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	60	112.3	36	36
M1_3	11.8	33.8	36	36
M1_4	62.2	33.8	36	36
M1_4	110.4	33.8		

DESIGN BY: NE BURNS
PROJECT ID: B-4497
CHECKED BY: WJ HAMILTON
DIV: 9
DATE: Aug 21, 2012

USE NOTES: 1,2,3
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

Letter	Series/Size	Text Length
E	E 2000	62.6
A	E 2000	117.5
S	E 2000	67.2
T	E 2000	119.7
N	E 2000	106
O	E 2000	55.6
R	E 2000	12.2
T	E 2000	29.2
H	E 2000	
I	E 2000	
L	E 2000	
E	E 2000	
F	E 2000	
T	E 2000	

FILENAME: B-4497 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103
TYPE: A
QUANTITY: 1
SIGN WIDTH: 7'-0"
HEIGHT: 10'-0"
TOTAL AREA: 70.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADIUS: 9"
NO. Z BARS: 3
LENGTH: 76.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	10.7	76.7	24	24
M1_4	49.3	76.7	24	24
M1_4	30	35.7	24	24
Box Background	10.5	5.7	63	24

DESIGN BY: NE BURNS
PROJECT ID: B-4497
CHECKED BY: WJ HAMILTON
DIV: 9
DATE: Aug 14, 2012

USE NOTES: 1,2,3
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.

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	Series/Size	Text Length
S	E 2000	46
O	E 2000	7.4
U	E 2000	6.5
T	E 2000	29.4
H	E 2000	14.9
W	E 2000	17.8
E	E 2000	
S	E 2000	
T	E 2000	
L	E 2000	
A	E 2000	
N	E 2000	
E	E 2000	
W	E 2000	
E	E 2000	
S	E 2000	
T	E 2000	
O	E 2000	
N	E 2000	
L	E 2000	
Y	E 2000	

FILENAME: B-4497 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 2
TYPE: A
QUANTITY: 1
SIGN WIDTH: 13'-0"
HEIGHT: 9'-0"
TOTAL AREA: 117.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADIUS: 12"
NO. Z BARS: 3
LENGTH: 148.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	12.1	45.8	36	36
M1_4	62	45.8	36	36
M1_4	109.5	45.8	36	36
AR_Type A	60	5	22.2	35

DESIGN BY: NE BURNS
PROJECT ID: B-4497
CHECKED BY: WJ HAMILTON
DIV: 9
DATE: Aug 14, 2012

USE NOTES: 1,2,3,4
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.
4. Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is: 156" X 36" with 2" inset and 2" border

LETTER POSITIONS

Letter spacings are to start of next letter

Letter	Series/Size	Text Length
S	E 2000	39.8
O	E 2000	36.7
U	E 2000	106.1
T	E 2000	13.5
H	E 2000	
W	E 2000	
E	E 2000	
S	E 2000	
T	E 2000	
O	E 2000	
N	E 2000	
L	E 2000	
Y	E 2000	

FILENAME: B-4497 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 101,102
TYPE: A
QUANTITY: 2
SIGN WIDTH: 13'-6"
HEIGHT: 10'-0"
TOTAL AREA: 135.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADIUS: 12"
NO. Z BARS: 3
LENGTH: 154.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	31.1	73.7	36	36
AR_Type A	67.2	11.5	22.2	35

DESIGN BY: NE BURNS
PROJECT ID: B-4497
CHECKED BY: WJ HAMILTON
DIV: 9
DATE: Aug 14, 2012

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 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

Letter	Series/Size	Text Length
W	E 2000	48.8
E	E 2000	131.2
S	E 2000	
T	E 2000	
H	E 2000	
M	E 2000	
O	E 2000	
C	E 2000	
K	E 2000	
S	E 2000	
V	E 2000	
I	E 2000	
L	E 2000	
L	E 2000	
O	E 2000	


FILENAME: B-4497 NORTH CAROLINA D.O.T. SIGN DETAIL



TYPE "A" SIGNS

SYSTEMS, INC. 3000 W. GARDNER DRIVE, SUITE 100, RALEIGH, NC 27609
 TEL: 919-872-8115 FAX: 919-872-8418

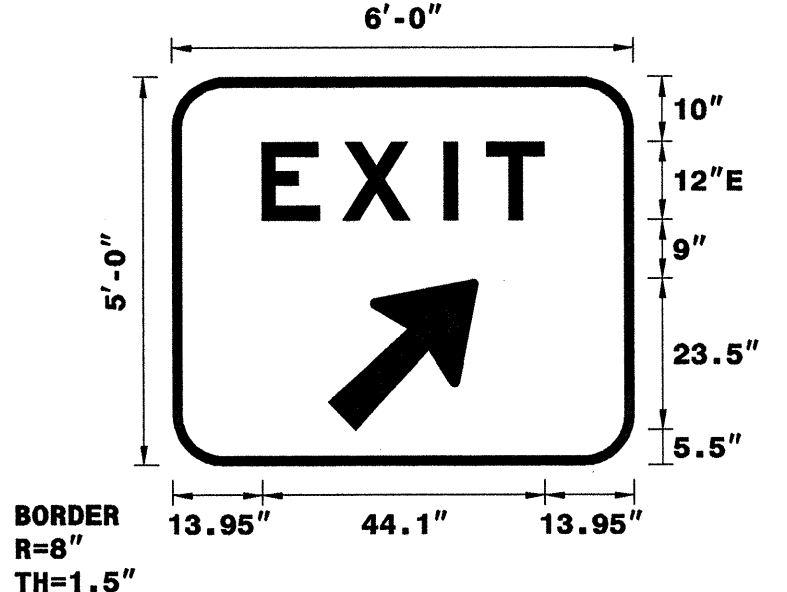
TIP NO. B-4497	SHEET NO. SIGN-5
APPROVED: <i>WJH</i>	
DATE: 8/24/12	
SEAL	



SIGN NUMBER: 201,202,203	BACKG COLOR: Green	DESIGN BY: NE BURNS	CHECKED BY: WJ HAMILTON	DATE: Aug 14, 2012
TYPE: A	COPY COLOR: White	PROJECT ID: B-4497	DIV: 9	

SYMBOL	X	Y	WID	HT
AR_Type A	24.3	5.5	19	29.8

SIGN WIDTH: 6'-0"
HEIGHT: 5'-0"
TOTAL AREA: 30.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.5"
RADII: 8"
NO. Z BARS: 2
LENGTH: 64.0
MAT'L: 0.125" (3.2 mm) ALUMINUM



USE NOTES: 1,2
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.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E	14
X	12.7
I	15.7
T	6.6
	9
	14

Series/Size: E 2000
Text Length: 44.1

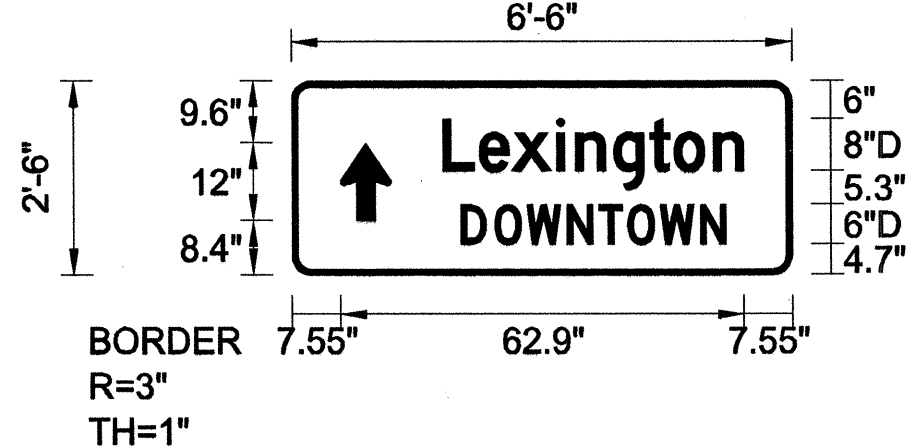
FILENAME: B-4497 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 301	BACKG COLOR: Green	DESIGN BY: NE BURNS	CHECKED BY: WJ HAMILTON	DATE: Aug 14, 2012
TYPE: D	COPY COLOR: White	PROJECT ID: B-4497	DIV: 9	

SYMBOL	X	Y	WID	HT
AR_Type D	7.6	8.4	8	12

SIGN WIDTH: 6'-6"
HEIGHT: 2'-6"
TOTAL AREA: 16.3 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADII: 3"
NO. Z BARS:
LENGTH:

MAT'L: 0.125" (3.2 mm) ALUMINUM



USE NOTES: 1,2
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.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner


Series/Size	Text Length
L	23.6
e	29.2
x	34.3
i	41.3
n	44.2
g	50.1
t	55.8
o	59.6
n	65.7
D	26.3
O	31.6
W	36.6
N	42.9
T	47.8
O	52.3
W	57.4
N	63.6

Series/Size: D 2000
Text Length: 46.9

Series/Size: D 2000
Text Length: 41.4

FILENAME: B-4497 NORTH CAROLINA D.O.T. SIGN DETAIL

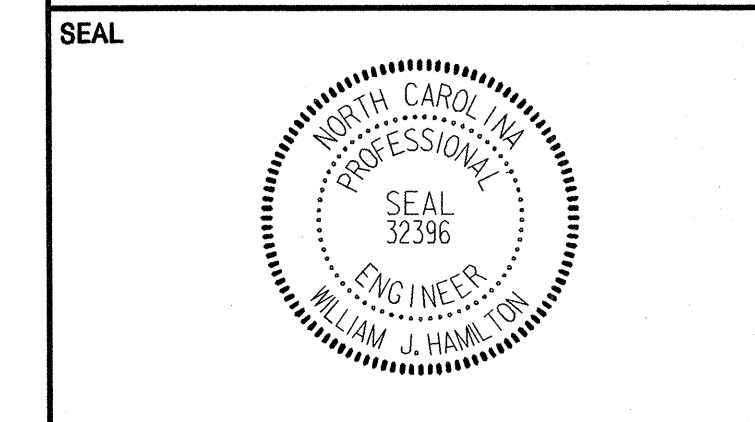
Prepared in the offices of:



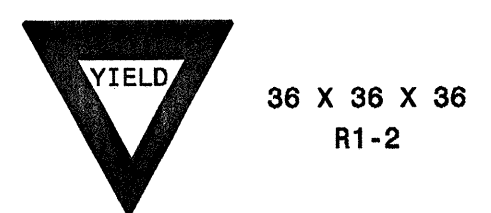
RAYMEY KEMP ASSOCIATES, INC.
Transportation Engineers
6808 Farrington Place, Suite 100
Raleigh, North Carolina 27609
919-872-6116 Tel. 919-878-6416 Fax
www.rameykemp.com

TYPE "A" & "D" SIGNS

APPROVED: *[Signature]*
DATE: 8/14/12

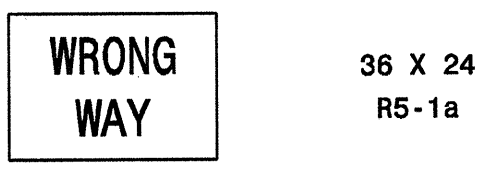


401 QUANTITY REQ'D 3



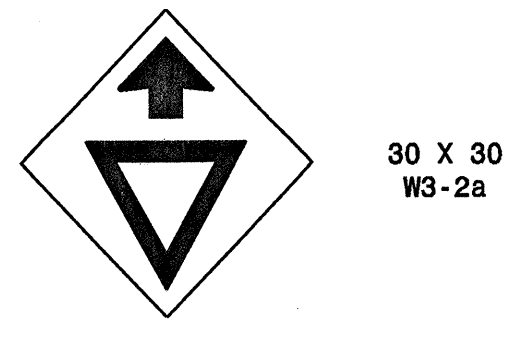
ONE "U" POST PER SIGN

406 QUANTITY REQ'D 5



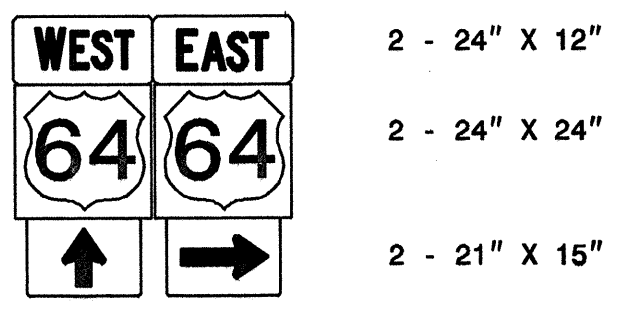
ONE "U" POST PER SIGN

411 QUANTITY REQ'D 1



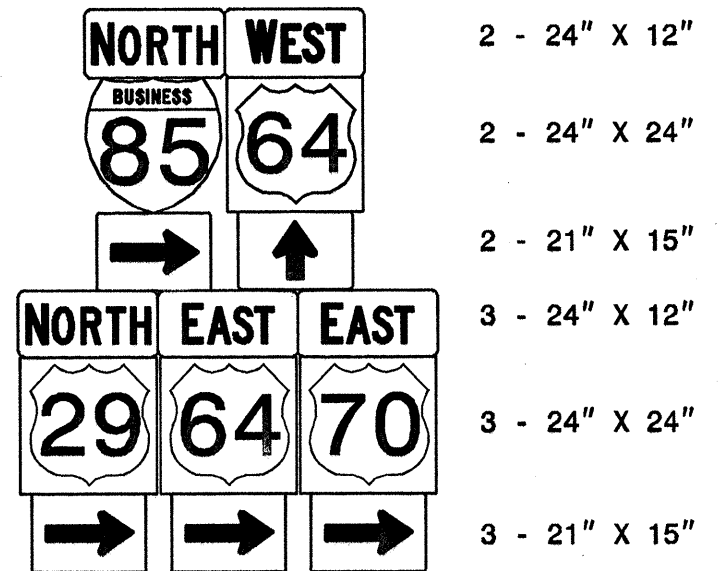
ONE "U" POST PER SIGN

501



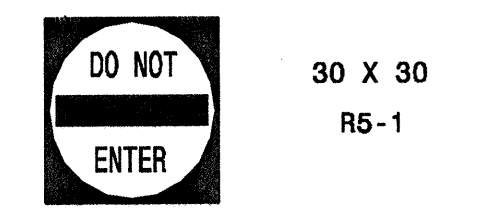
TWO "U" POSTS PER SIGN

506



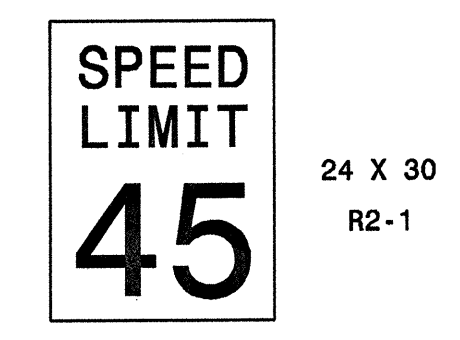
THREE "U" POSTS PER SIGN

402 QUANTITY REQ'D 8



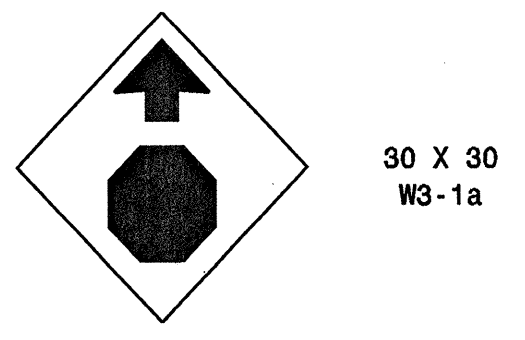
ONE "U" POST PER SIGN

407 QUANTITY REQ'D 5



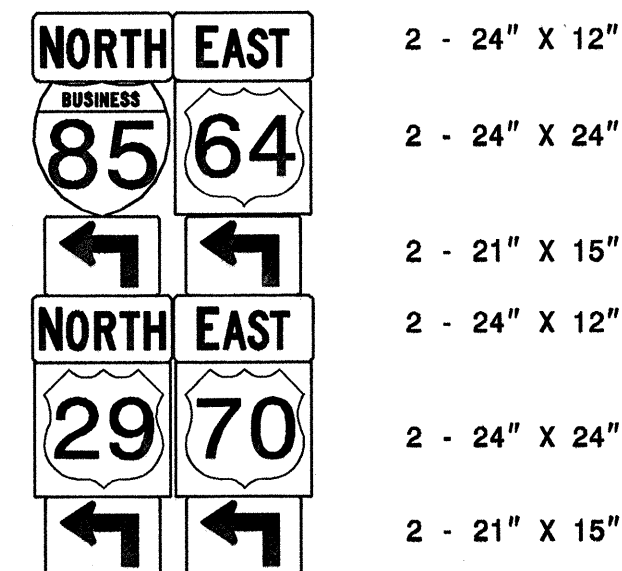
ONE "U" POST PER SIGN

412 QUANTITY REQ'D 2



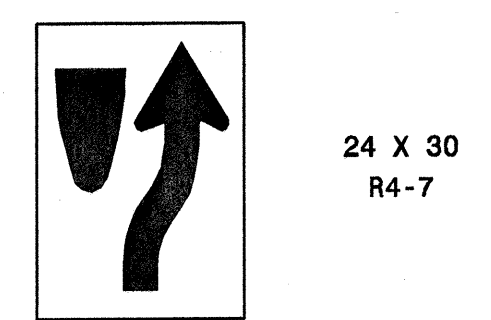
ONE "U" POST PER SIGN

502



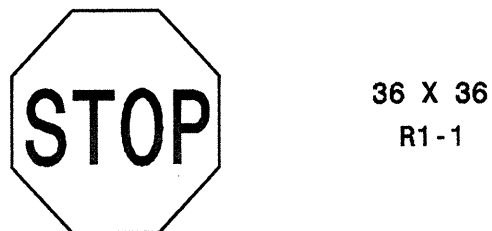
TWO "U" POSTS PER SIGN

403 QUANTITY REQ'D 4



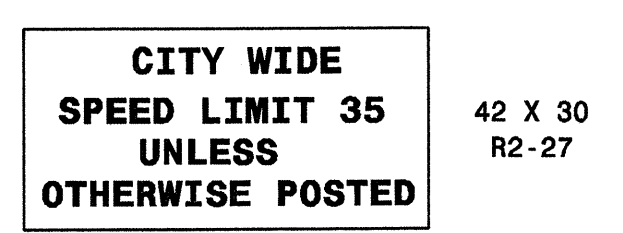
ONE "U" POST PER SIGN

408 QUANTITY REQ'D 4



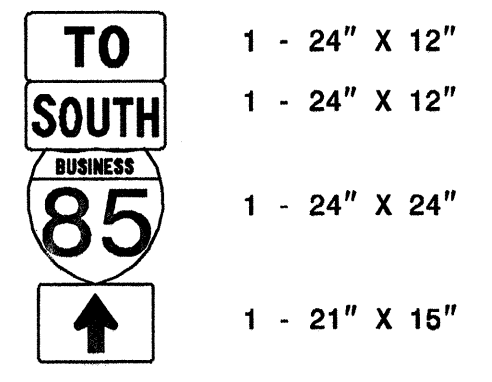
ONE "U" POST PER SIGN

413 QUANTITY REQ'D 1



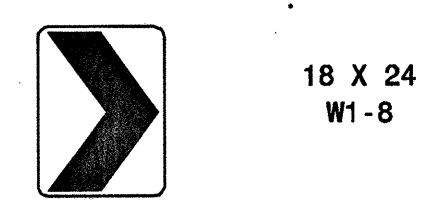
TWO "U" POSTS PER SIGN

503



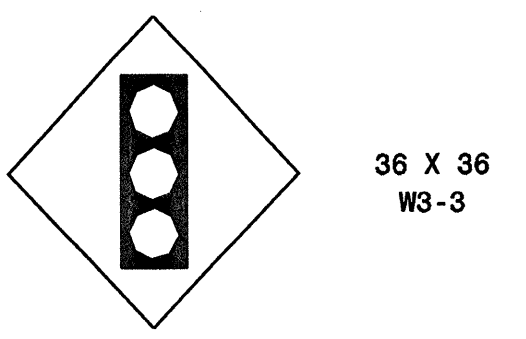
ONE "U" POST PER SIGN

404 QUANTITY REQ'D 5



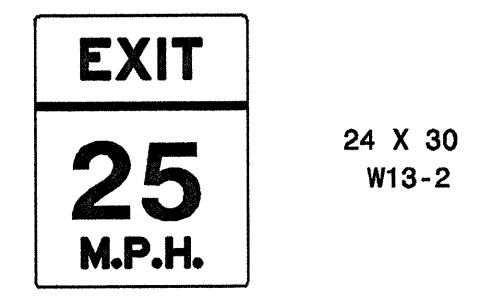
ONE "U" POST PER SIGN

409 QUANTITY REQ'D 2



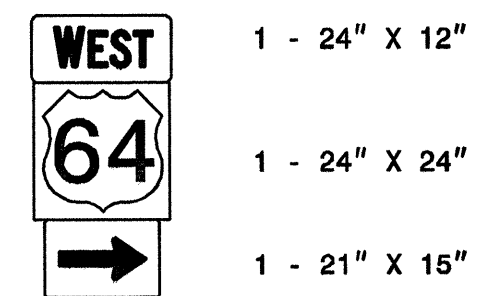
ONE "U" POST PER SIGN

414 QUANTITY REQ'D 1



ONE "U" POST PER SIGN

504



ONE "U" POST PER SIGN

405 QUANTITY REQ'D 4



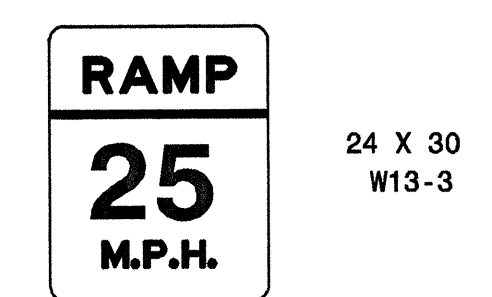
TWO "U" POSTS PER SIGN

410 QUANTITY REQ'D 2



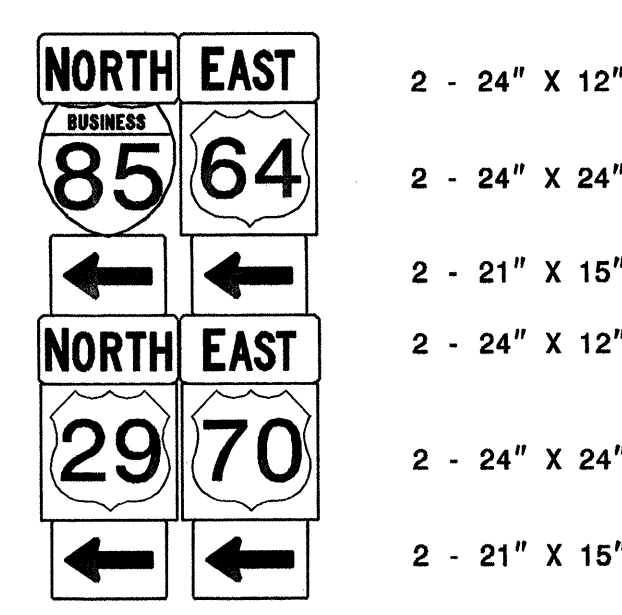
ONE "U" POST PER SIGN

415 QUANTITY REQ'D 1



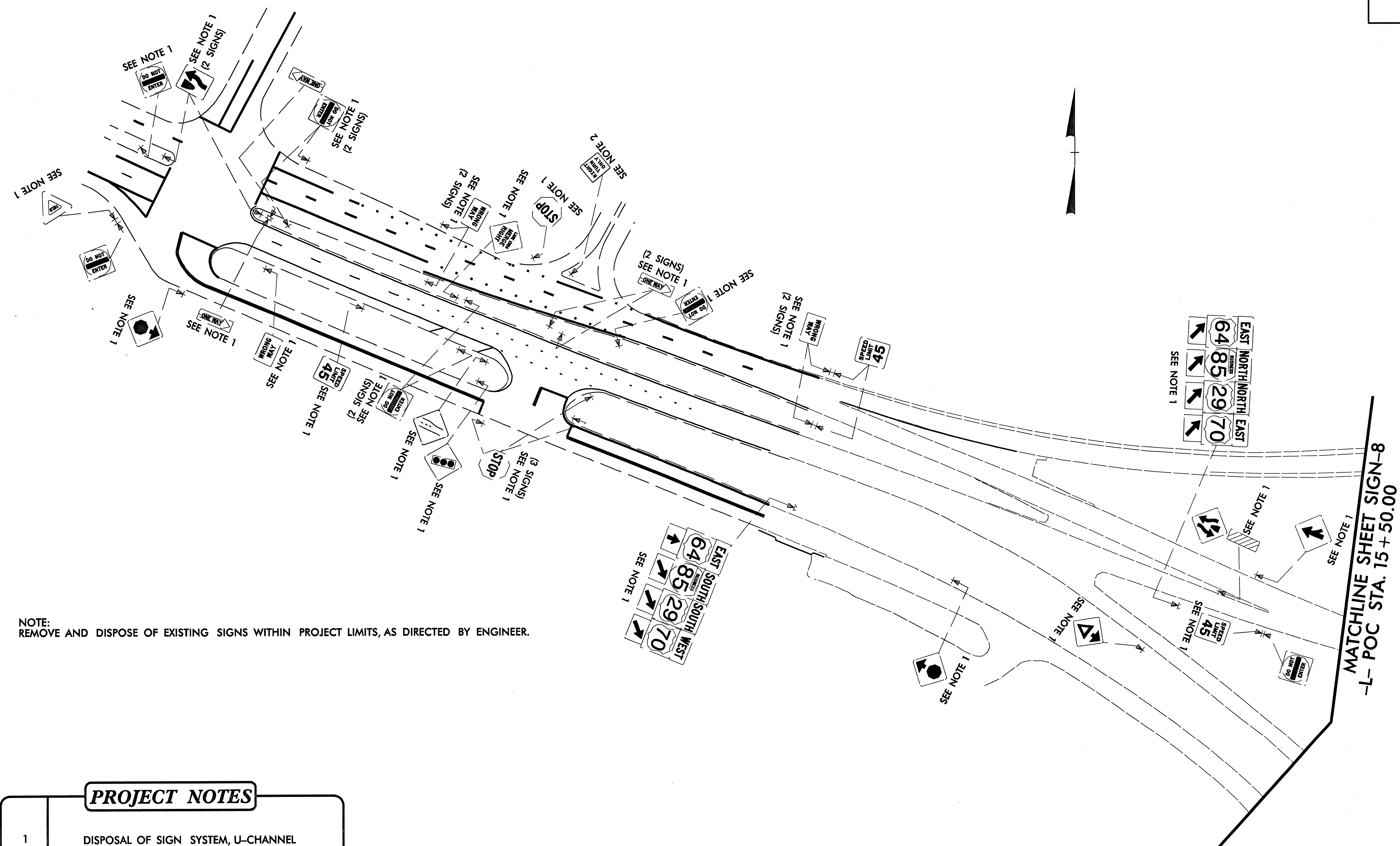
ONE "U" POST PER SIGN

505



TWO "U" POSTS PER SIGN

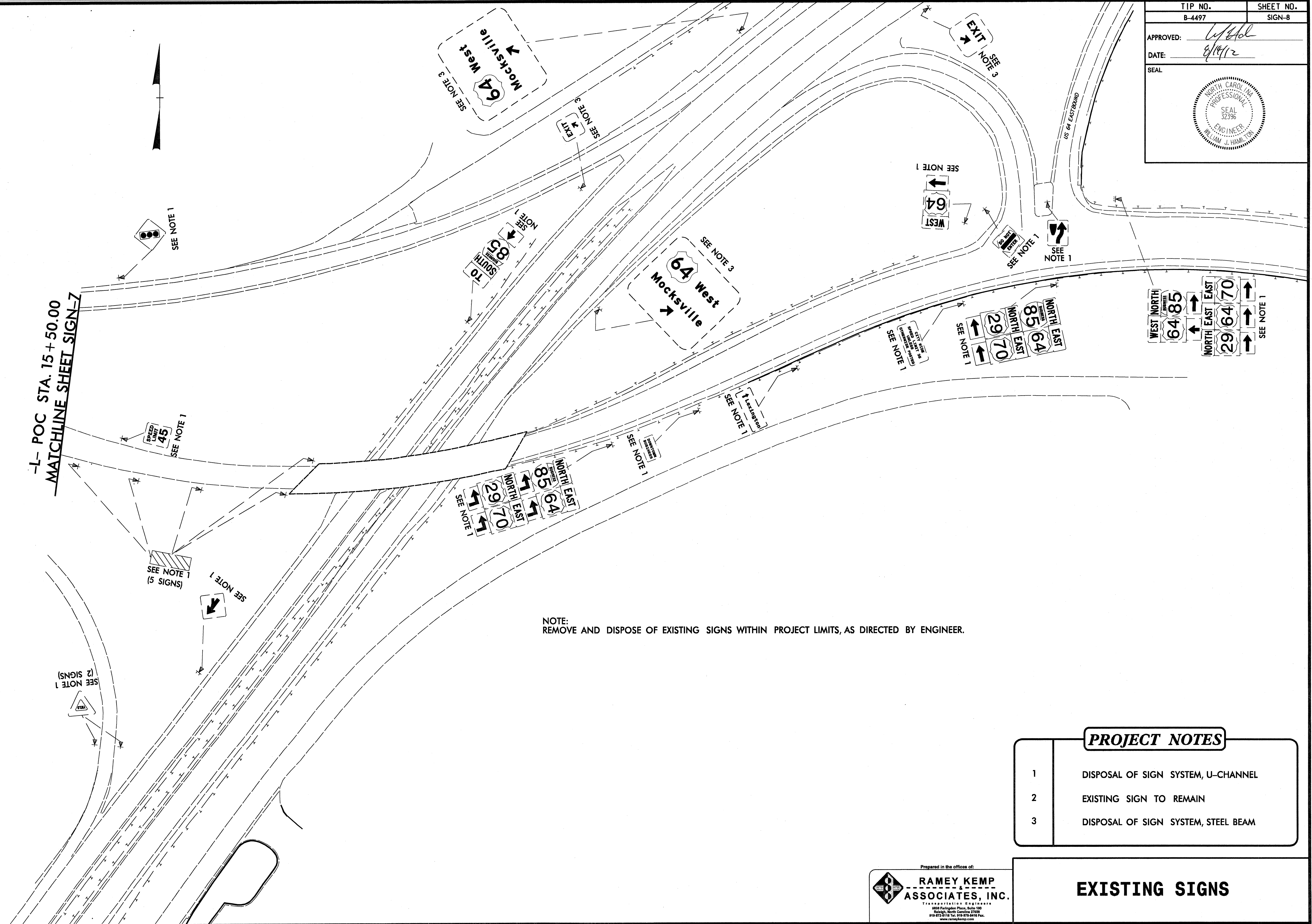
TYPE "E" AND "F" SIGNS



NOTE:
REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN PROJECT LIMITS, AS DIRECTED BY ENGINEER.

PROJECT NOTES	
1	DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2	EXISTING SIGN TO REMAIN
3	DISPOSAL OF SIGN SYSTEM, STEEL BEAM

-L- POC STA. 15+50.00
MATCHLINE SHEET SIGN-7

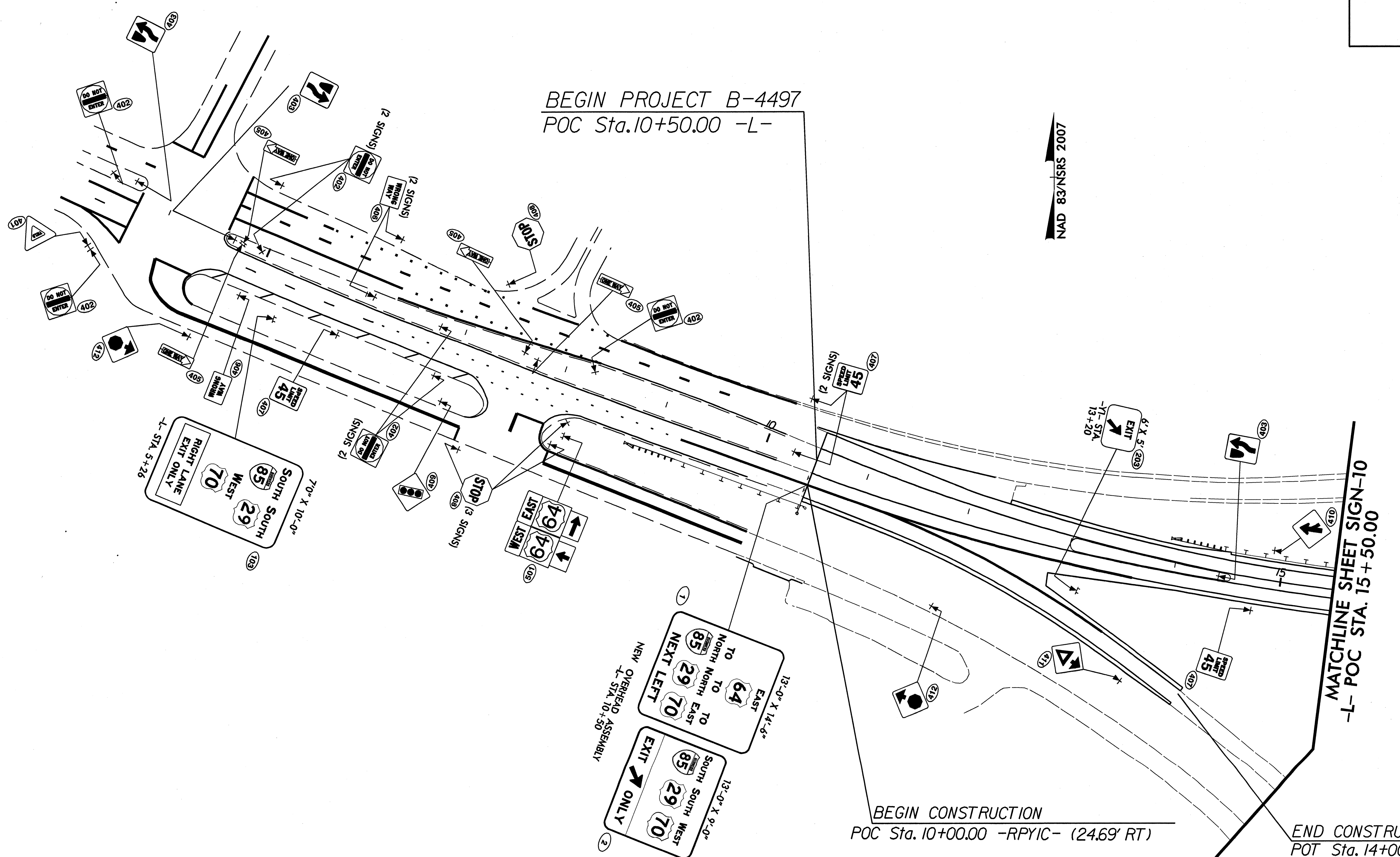


NOTE:
REMOVE AND DISPOSE OF EXISTING SIGNS WITHIN PROJECT LIMITS, AS DIRECTED BY ENGINEER.

PROJECT NOTES

- | | |
|---|-------------------------------------|
| 1 | DISPOSAL OF SIGN SYSTEM, U-CHANNEL |
| 2 | EXISTING SIGN TO REMAIN |
| 3 | DISPOSAL OF SIGN SYSTEM, STEEL BEAM |

EXISTING SIGNS



APPROVED: *WJH*
DATE: 8/24/12
SEAL
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 32396
WILLIAM J. HAMILTON

-L- POC STA. 15+50.00
MATCHLINE SHEET 9

