T.I.P.: W-5306

W.B.S. NO: 46130.1.1

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

TIP NO.	SHEET NO.
W-5306	SIGN-1

APPROVED: [illegible]

DATE: 2/20/17

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

SIGNING PLAN
NEW HANOVER COUNTY

LOCATION: NC 117/NC 133/NC 132 INTERCHANGE

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.

SUMMARY OF QUANTITIES

ITEM NO. DESC. NO.	ITEM NO. SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	1	C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	1	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	1438	LB.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	939	L.F.
4096000000	904	SIGN ERECTION, TYPE D	5	EA.
4102000000	904	SIGN ERECTION, TYPE E	27	EA.
4108000000	904	SIGN ERECTION, TYPE F	10	EA.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	3	EA.
4116100000	904	SIGN ERECTION, RELOCATE, TYPE D (GROUND-MOUNTED)	2	EA.
4116100000	904	SIGN ERECTION, RELOCATE, TYPE E (GROUND-MOUNTED)	1	EA.
4149000000	907	DISPOSAL OF SIGN SYSTEM, OVERHEAD	1	EA.
4158000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	38	EA.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	REVISED GROUND MOUNTED SIGN SUPPORTS SHEET 2 OF 3
SIGN-3	SUPPORT CHART
SIGN-4-6	TYPE A AND D SIGN DETAILS
SIGN-7	TYPE E AND F SIGNS
SIGN-8-9	EXISTING SIGNS
SIGN-10-11	PROPOSED SIGNS

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

AYMAN ALQUDWAH SIGNING & DELINEATION REGIONAL ENGINEER

ERIC WARD SIGNING & DELINEATION DESIGN ENGINEER

DIVISION OF HIGHWAYS - STATE OF NORTH CAROLINA - DEPARTMENT OF TRANSPORTATION - WORK ZONE TRAFFIC CONTROL UNIT

PLAN PREPARED BY: Ramey Kemp & Associates

W.JASON HAMILTON PROJECT MANAGER

NICHOLAS E. BURNS PROJECT ENGINEER

RAMEY KEMP & ASSOCIATES, INC.
Transportation Engineers
5808 Faringdon Place, Suite 100
Raleigh, North Carolina 27609
919-872-5115 Tel. 919-878-0418 Fax.
www.rameykemp.com

TIP NO.	SHEET NO.
W-5306	SIGN-2

APPROVED: RWK
DATE: 3/8/12

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 022959 ENGINEER RONALD W. KING

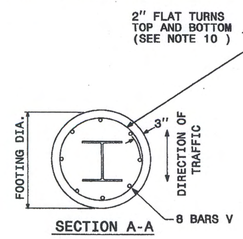
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

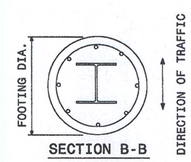
ENGLISH DETAIL DRAWING FOR

GROUND MOUNTED SIGN SUPPORTS

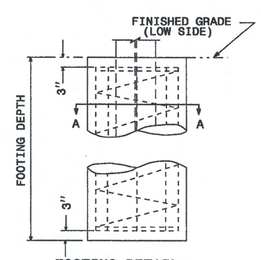
	SLIP BASE PLATE DATA								KEEPER PLATE DATA							HINGE CONNECTION DATA										BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.
BEAM SHAPE	BOLT SIZE	A_1	B_1	C_1	D_1	E_1	T_1	R_1	A_2	B_2	C_2	D_2	E_2	R_2	T_2	BOLT SIZE	F	G	H	I	J	K	L	R_3	T_3	
S3X5.7	1/2"DIA.X 3"	7"	4"	1"	3/4"	2 1/2"	1"	9/32"	7"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA.X1 1/4"	2 1/4"	3 1/2"	4"	1/2"	1"	1/2"	2"	9/32"	3/8"	18
S4X7.7	1/2"DIA.X 3"	8"	4"	1"	3/4"	2 1/2"	1"	9/32"	8"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA.X1 1/4"	2 5/8"	3 1/2"	4"	1/2"	1"	1/2"	2"	9/32"	3/8"	20
W6X9	1/2"DIA.X 3"	10"	5"	1"	3/4"	3 1/2"	1"	9/32"	10"	5"	1"	3/4"	3 1/2"	9/32"	28 GAUGE	1/2"DIA.X1 1/4"	4"	3 1/2"	4"	3/4"	1"	1/2"	2"	9/32"	3/8"	32
W6X12	5/8"DIA.X3 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.X2 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.X3 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.X2 1/2"	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.X2 1/2"	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.X2 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.X2 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.X4 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.X2 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.X4 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.X2 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.X3"	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.X3 1/4"	5 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.X3 1/4"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	243
W18X40	1"DIA.X5 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.X3 3/4"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	278
W21X44	1"DIA.X5 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.X3 3/4"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	310



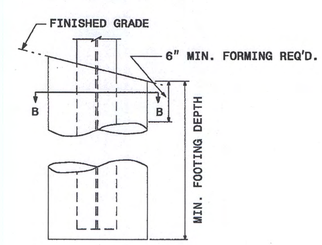
SECTION A-A



SECTION B-B



FOOTING DETAIL



FOOTING DETAIL

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

SHEET 2 OF 3
903D10

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

1-12

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 2 OF 3
903D10

REVISED SIGNING
ROADWAY STANDARD DRAWING

08-MAR-2012 11:10
S:\S&DU\Standards Group\PMP\2012 Standard Drawings\Standard Dwgs 8-17-11\Revised\0903.10_sgn_sht02_gm support_Revised_Scaled.dgn
dstokes AT TE24745

TIP NO.	SHEET NO.
W-5306	SIGN-3

APPROVED: _____

DATE: 2/21/19

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

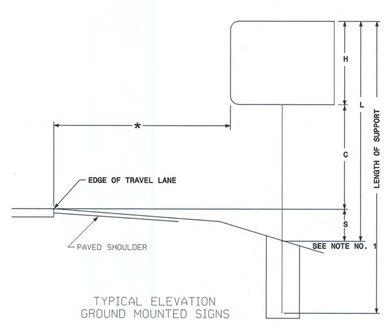
SIGN NO.	SIGN TYPE	SIGN SIZE (in.) w	x	h	ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (ft.)	LENGTH (ft) SNS HT H	MTG HT C	EMBED MENT	LEFT SUPPORT (ft) S	L	TOTAL LENGTH	CENTER SUPPORT (ft) S	L	TOTAL LENGTH	RIGHT SUPPORT (ft) S	L	TOTAL LENGTH	FOOTING DIAMETE (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)
101	A	132	X	102	51+32 - L-	2	W6x16	BA	N/A	N/A	20.00	8.50	7.00	5.5	0.97	16.47	21.97	0.00	0.00	0.00	1.17	16.67	22.17	1.5	6	838.54	0.00	0.79	0.00	
102	A	66	X	72	48+40 - L-	2	S4x7.7	BA	N/A	N/A	20.00	6.00	7.55	4	-0.55	13.00	17.00	0.00	0.00	0.00	-0.36	13.19	17.19	1	4.5	303.89	0.00	0.00	0.26	
103	B	90	X	48	63+67 - L-	2	S4x7.7	BA	N/A	N/A	20.00	4.00	7.00	4	1.00	12.00	16.00	0.00	0.00	0.00	2.00	13.00	17.00	1.00	4.5	294.71	0.00	0.00	0.26	
																										TOTAL 1437.14	TOTAL 0.00	TOTAL 0.79	TOTAL 0.52	
																							USE:			1438	0	1	1	

NOTES

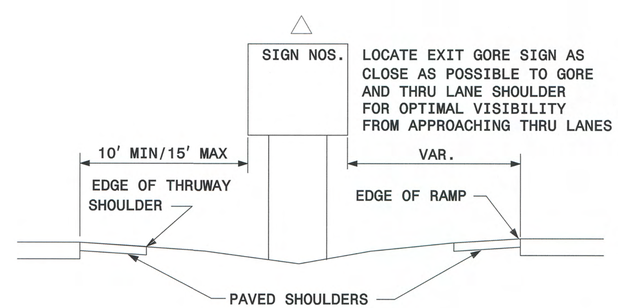
1. DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.

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.



TYPICAL ELEVATION
GROUND MOUNTED SIGNS



Prepared in the offices of:
RAMEY KEMP & ASSOCIATES, INC.
Transportation Engineers
5808 Faringdon Place, Suite 100
Raleigh, North Carolina 27609
919-872-5115 Tel. 919-878-9416 Fax.
www.rameykemp.com

TYPE "A" AND "B" GROUND MOUNTED SIGNS

TIP NO.	SHEET NO.
W-5306	SIGN-4

APPROVED: _____

DATE: 2/26/14

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

SIGN NUMBER: 101
TYPE: A
QUANTITY: 1

SIGN WIDTH: 11'-0"
HEIGHT: 8'-6"
TOTAL AREA: 93.5 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 12"

NO. Z BARS: 3
LENGTH: 124.0

BACKG COLOR: Green
COPY COLOR: White

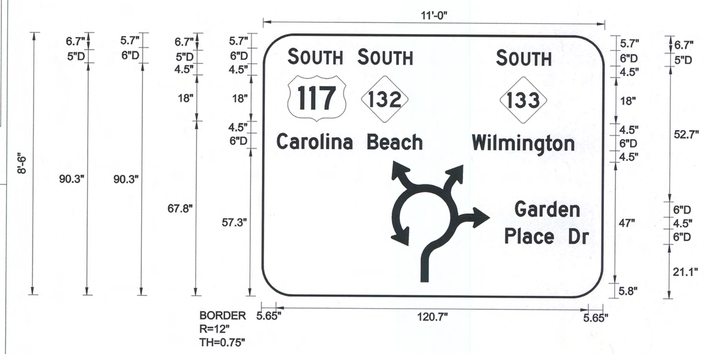
SYMBOL	X	Y	WID	HT
M1_4	9.7	67.8	22.5	18
M1-5-3-24-8D	38.2	67.8	18	18
M1-5-3-24-8D	91.7	67.8	18	18
AR_ROUNDABOUT	49.9	5.9	38.2	47

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: NE Burns
PROJECT ID: W-5306
CHECKED BY: WJ HAMILTON
DIV: 3
DATE: Jul 10, 2013

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.



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																								D 2000
9.6	4.1	0.9	4.7	4.2	3.8	3.4	101.3																							21
	S		O	U	T	H																								D 2000
36.7	4.1	0.9	4.6	4.2	3.8	3.4	74.3																							21
	S		O	U	T	H																								D 2000
90.2	4.1	0.9	4.7	4.2	3.8	3.4	20.8																							21
	C	a	r	o	l	i	n	a		B	e	a	c	h																D 2000
5.6	5	4.6	2.8	4.6	2.2	2.2	4.4	3.4	6	4.7	4.1	4.3	4.3	3.5	70.3															56
	W	i	l	m	i	n	g	t	o	n																				D 2000
81	6.1	2.2	2.2	7.1	2.2	4.4	4.3	2.8	4.6	3.5	11.6																			39.4
	G	a	r	d	e	n																								D 2000
97.9	5	4.6	2.8	4.6	4.4	3.5	9.4																							24.8
	P	l	a	c	e		D	r																						D 2000
94.1	4.9	1.9	4.3	4.1	3.5	6	5.3	2.3	5.6																					32.2

FILENAME: Nicks Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 102
TYPE: A
QUANTITY: 1

SIGN WIDTH: 5'-6"
HEIGHT: 6'-0"
TOTAL AREA: 33.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 9"

NO. Z BARS: 2
LENGTH: 58.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: NE BURNS
PROJECT ID: W-5306
CHECKED BY: WJ HAMILTON
DIV: 3
DATE: Sep 17, 2013

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
	I	L	M		A	i	r	p	o	r	t																			D 2000
11.8	2.4	4.6	4.7	6	5.9	2.2	3	4.3	4.6	2.5	2.4	11.7																		42.5
	B	a	t	t	l	e	s	h	i	p		N	C																	D 2000
8.1	4.7	4	2.5	3.1	1.9	4	3.6	4.7	2.2	3.6	6	5.4	4.1	8.1																49.7
	2	N	D		R	I	G	H	T																					D 2000
11.8	5.4	5.5	4.1	6	5.1	2.3	5.4	5	3.7	11.8																				42.5
	C	a	r	o	l	i	n	a		B	e	a	c	h																D 2000
5	5	4.6	2.8	4.6	2.2	2.2	4.4	3.4	6	4.7	4.1	4.3	4.3	3.5	5															56
	F	o	r	t		F	i	s	h	e	r																			D 2000
12.7	4.3	4.6	2.5	2.4	6	4.5	1.8	3.6	4.4	4.4	2.3	12.6																		40.7
	3	R	D		R	I	G	H	T																					D 2000
12	5.4	5.1	4.1	6	5.1	2.3	5.4	5	3.7	11.9																				42.1

FILENAME: Nicks Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103
TYPE: B
QUANTITY: 1

SIGN WIDTH: 7'-6"
HEIGHT: 4'-0"
TOTAL AREA: 30.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 6"

NO. Z BARS: 2
LENGTH: 82.0

BACKG COLOR: Green
COPY COLOR: White

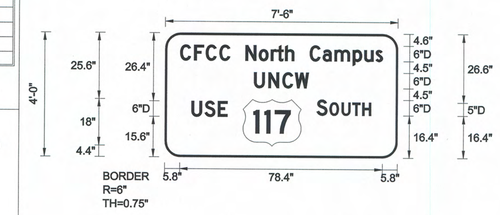
SYMBOL	X	Y	WID	HT
M1_4	30.2	4.4	22.5	18

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: NE BURNS
PROJECT ID: W-5306
CHECKED BY: WJ HAMILTON
DIV: 3
DATE: Oct 07, 2013

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.



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

																														Series/Size Text Length
	C	F	C	C		N	o	r	t	h		C	a	m	p	u	s													D 2000
5.8	5.4	4.5	5.3	4.1	6	5.2	4.6	2.5	3.1	3.5	6	5	4.6	7.1	4.5	4.4	2.8	5.8												78.4
	U	N	C	W																										D 2000
34.4	5.5	5.4	4.9	5.3	34.4																									21.1
	U	S	E																											D 2000
10.3	5.1	5.1	3.7	65.8																										13.9
	S		O	U	T	H																								D 2000
58.7	4.1	0.9	4.6	4.2	3.8	3.4	10.3																							21

FILENAME: Nicks Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

Prepared in the offices of:

RAMEY KEMP & ASSOCIATES, INC.
Transportation Engineers
5808 Faringdon Place, Suite 100
Raleigh, North Carolina 27609
919-873-9116 Tel. 919-878-8416 Fax.
www.rameykemp.com

SIGN DETAIL SHEET

TIP NO.	SHEET NO.
W-5306	SIGN-5

APPROVED: [illegible]

DATE: 11/6/13

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

SIGN NUMBER: 302
TYPE: D
QUANTITY: 1
SIGN WIDTH: 4'-6"
HEIGHT: 2'-6"
TOTAL AREA: 11.3 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 3"
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

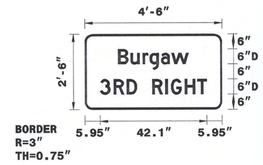
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: NE BURNS
PROJECT ID: W-5306
CHECKED BY: WJ HAMILTON
DIV: 3
DATE: Jul 15, 2013

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
		B	u	r	g	a	w																									D 2000
	13.1	4.9	4.7	2.8	4.5	4.1	6.8	13.1																								27.8
		3	R	D		R	I	G	H	T																						D 2000
	6	5.4	5.1	4.1	6	5.1	2.3	5.4	5	3.7	6																					42.1

FILENAME: Nicks Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 303
TYPE: D
QUANTITY: 1
SIGN WIDTH: 4'-6"
HEIGHT: 2'-6"
TOTAL AREA: 11.3 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 3"
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

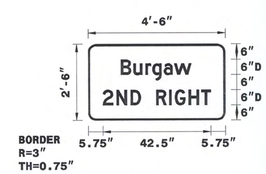
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: NE BURNS
PROJECT ID: W-5306
CHECKED BY: WJ HAMILTON
DIV: 3
DATE: Jul 15, 2013

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
		B	u	r	g	a	w																									D 2000
	13.1	4.9	4.7	2.8	4.5	4.1	6.8	13.1																								27.8
		2	N	D		R	I	G	H	T																						D 2000
	5.8	5.4	5.5	4.1	6	5.1	2.3	5.4	5	3.7	5.8																					42.5

FILENAME: Nicks Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304
TYPE: D
QUANTITY: 1
SIGN WIDTH: 5'-0"
HEIGHT: 2'-6"
TOTAL AREA: 12.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 3"
NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

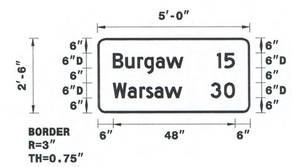
SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: NE BURNS
PROJECT ID: W-5306
CHECKED BY: WJ HAMILTON
DIV: 3
DATE: Jul 15, 2013

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
		B	u	r	g	a	w			1	5																					D 2000
	6	4.9	4.7	2.8	4.5	4.1	6.8	13.3	2.8	4.1	6																					48
		W	a	r	s	a	w		3	0																						D 2000
	6	5.8	4.6	2.6	3.3	4.1	6.8	11.3	5.3	4.3	6																					48

FILENAME: Nicks Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

Prepared in the offices of:

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Transportation Engineers
5808 Faringdon Place, Suite 100
Raleigh, North Carolina 27609
919-872-5115 Tel. 919-878-9419 Fax.
www.ramey kemp.com

SIGN DETAIL SHEET

TIP NO.	SHEET NO.
W-5306	SIGN-6

APPROVED: W.H.H.

DATE: 11/6/13

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

SIGN NUMBER: 301
TYPE: D
QUANTITY: 1

SIGN WIDTH: 6'-0"
HEIGHT: 2'-6"
TOTAL AREA: 15.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 3"

NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

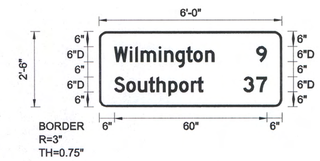
DESIGN BY: NE BURNS
PROJECT ID: W-5306

CHECKED BY: WJ HAMILTON
DIV: 3

DATE: Sep 17, 2013

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
		W	i	l	m	i	n	g	t	o	n		9															D 2000
	6	6.1	2.2	2.2	7.1	2.2	4.4	4.3	2.8	4.6	3.5	16.6	4.1	6														60
		S	o	u	t	h	p	o	r	t		3	7															D 2000
	6	4.7	4.6	4.2	3.1	4.7	4.3	4.6	2.5	2.4	15.8	5.1	4.1	6														60

FILENAME: Nicks Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 305
TYPE: D
QUANTITY: 1

SIGN WIDTH: 8'-6"
HEIGHT: 2'-6"
TOTAL AREA: 21.3 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 3"

NO. Z BARS:
LENGTH:

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM

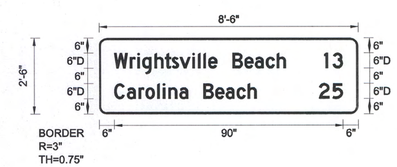
DESIGN BY: NE BURNS
PROJECT ID: W-5306

CHECKED BY: WJ HAMILTON
DIV: 3

DATE: Sep 17, 2013

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
		W	r	i	g	h	t	a	v	i	l	l	e		B	e	a	c	h		1	3						D 2000
	6	6.1	3	1.9	4.8	4.1	2.7	3.1	5	2.2	2.2	1.9	3.5	6	4.7	4.1	4.3	4.3	3.5	15.1	3.3	4.1	6					90
		C	a	r	o	l	i	n	a		B	e	a	c	h		2	5										D 2000
	6	5	4.6	2.8	4.6	2.2	2.2	4.4	3.4	6	4.7	4.1	4.3	4.3	3.5	24.6	5.3	4.1	6									90

FILENAME: Nicks Sign Designs

NORTH CAROLINA D.O.T. SIGN DETAIL

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Raleigh, North Carolina 27609
919-872-5115 Tel. 919-873-5416 Fax.
www.rameykemp.com

SIGN DETAIL SHEET

TIP NO.	SHEET NO.
W-5306	SIGN-7

APPROVED: W.H.H.

DATE: 11/6/13

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

(401) QUANTITY REQ'D 2

24 x 30
R2-1

ONE "U" POST PER SIGN

(402) QUANTITY REQ'D 1

24 x 30
R2-1

ONE "U" POST PER SIGN

(403) QUANTITY REQ'D 4

36 X 36 X 36
R1-2

ONE "U" POST PER SIGN

(404) QUANTITY REQ'D 2

30 X 30
R5-1

ONE "U" POST PER SIGN

(405) QUANTITY REQ'D 2

24 X 30
R4-7

ONE "U" POST PER SIGN

(406) QUANTITY REQ'D 4

30 x 24
R6-4

ONE "U" POST PER SIGN

(407) QUANTITY REQ'D 2

30 x 30
W2-6

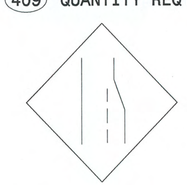
ONE "U" POST PER SIGN

(408) QUANTITY REQ'D 1

30 X 30
I-5

ONE "U" POST PER SIGN

(409) QUANTITY REQ'D 1



36 X 36
W4-2(R)

TWO "U" POSTS PER SIGN

(410) QUANTITY REQ'D 2

36 X 36
W3-5

ONE "U" POST PER SIGN

(411) QUANTITY REQ'D 1

30 x 30
W11-8

ONE "U" POST PER SIGN

(412) QUANTITY REQ'D 1

36 x 30
W11-12P

MOUNTED BELOW SIGN 411

(413) QUANTITY REQ'D 1

21 X 15
M6-3

MOUNTED BELOW SIGN 408

(414) QUANTITY REQ'D 1

30 X 36
R2-1

ONE "U" POST PER SIGN

(415) QUANTITY REQ'D 1

24 x 30
R2-1

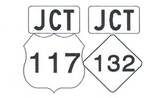
ONE "U" POST PER SIGN

(416) QUANTITY REQ'D 1

36 Dia.
W10-1

ONE "U" POST PER SIGN

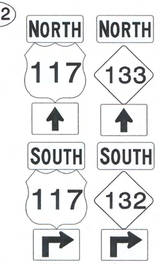
(501)



2 - 24" X 12"
2 - 24" X 24"

TWO "U" POSTS PER SIGN

(502)



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

TWO "U" POSTS PER SIGN

(503)

2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

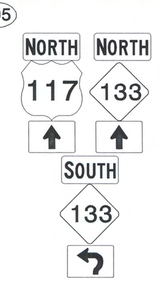
TWO "U" POSTS PER SIGN

(504)

1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

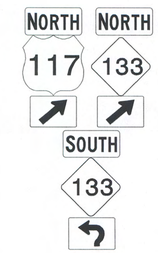
(505)



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"
1 - 24" X 12"
1 - 24" X 24"
1 - 21" X 15"

TWO "U" POSTS PER SIGN

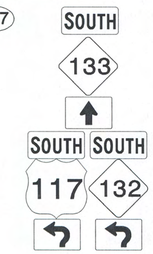
(506)



2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"
1 - 24" X 12"
1 - 24" X 24"
1 - 21" X 15"

TWO "U" POSTS PER SIGN

(507)



1 - 24" X 12"
1 - 24" X 24"
1 - 21" X 15"
2 - 24" X 12"
2 - 24" X 24"
2 - 21" X 15"

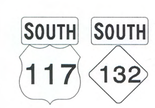
TWO "U" POSTS PER SIGN

(508)

1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

(509)



2 - 24" X 12"
2 - 24" X 24"

TWO "U" POSTS PER SIGN

(510)

1 - 24" X 12"
1 - 24" X 24"

ONE "U" POST PER SIGN

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RAMEY KEMP & ASSOCIATES, INC.
Transportation Engineers
5808 Faringdon Place, Suite 100
Raleigh, North Carolina 27609
919-872-5115 Tel. 919-878-5416 Fax.
www.rameykemp.com

TYPE "E" AND "F" SIGNS

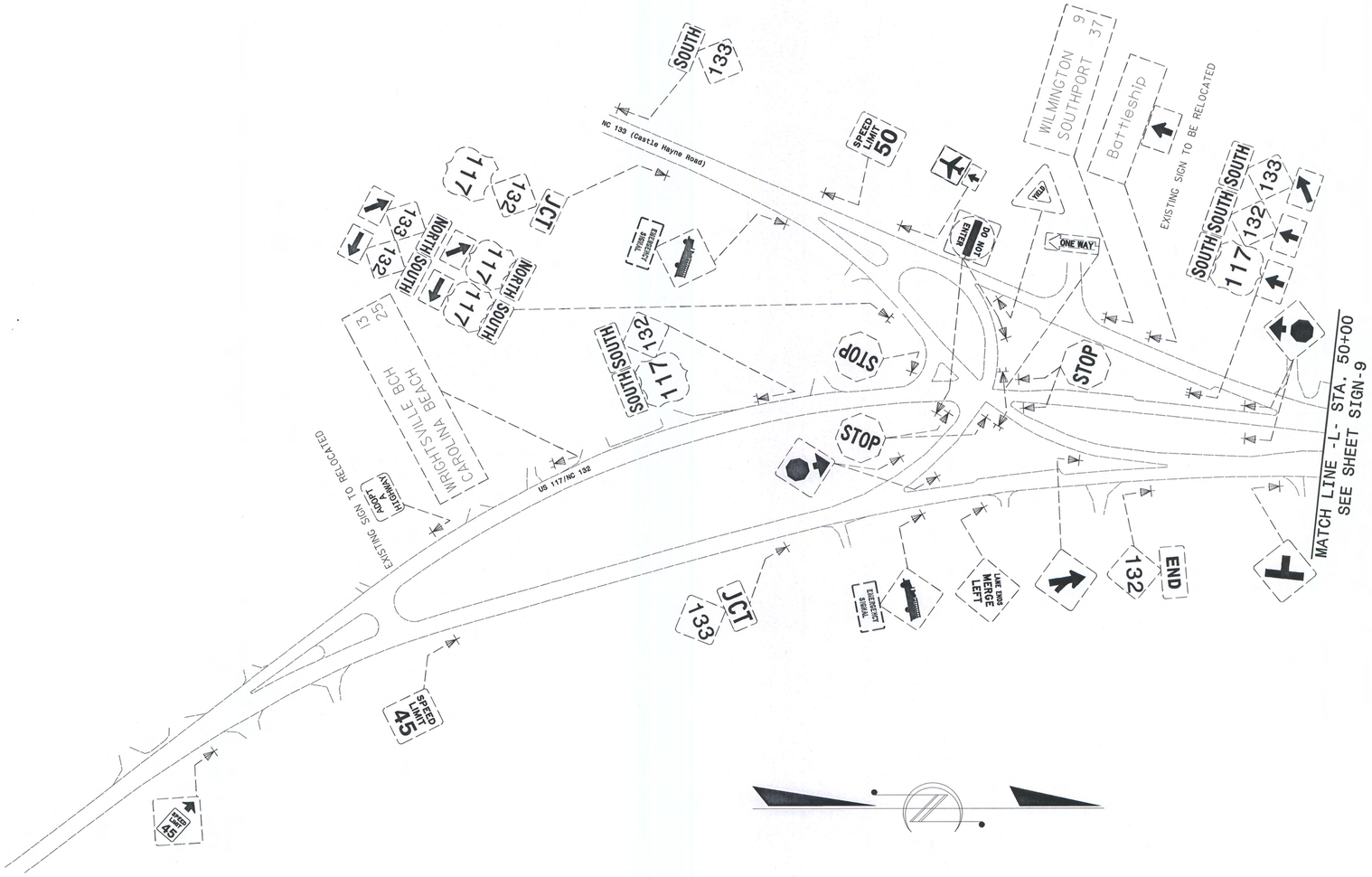
TIP NO.	SHEET NO.
W-5306	SIGN-8

APPROVED: [signature]

DATE: 11/6/13

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON



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Transportation Engineers
5808 Farlington Place, Suite 100
Raleigh, North Carolina 27609
919-872-5115 Tel. 919-872-5416 Fax.
www.rameykemp.com

EXISTING SIGNING DETAIL

TIP NO.	SHEET NO.
W-5306	SIGN-9

APPROVED:

DATE: 11/6/13

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON

Prepared in the offices of:

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919-872-0115 Tel. 919-878-5416 Fax.
www.rameykemp.com

EXISTING SIGNING DETAIL

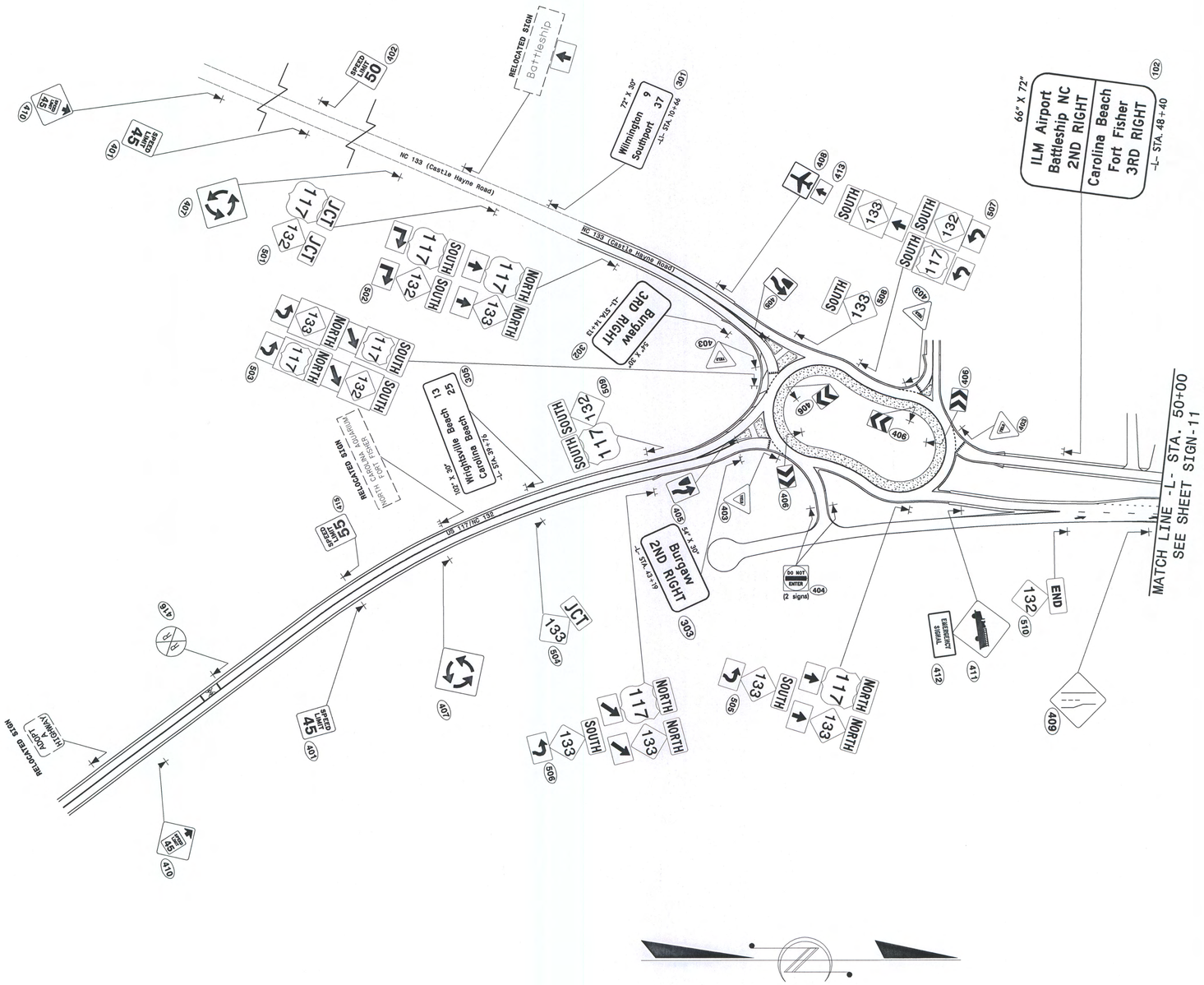
TIP NO.	SHEET NO.
W-5306	SIGN-10

APPROVED: [illegible]

DATE: 11/6/13

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON



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Transportation Engineers
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Raleigh, North Carolina 27609
919-872-5115 Tel. 919-878-5416 Fax.
www.rameykemp.com

PROPOSED SIGNING DETAIL

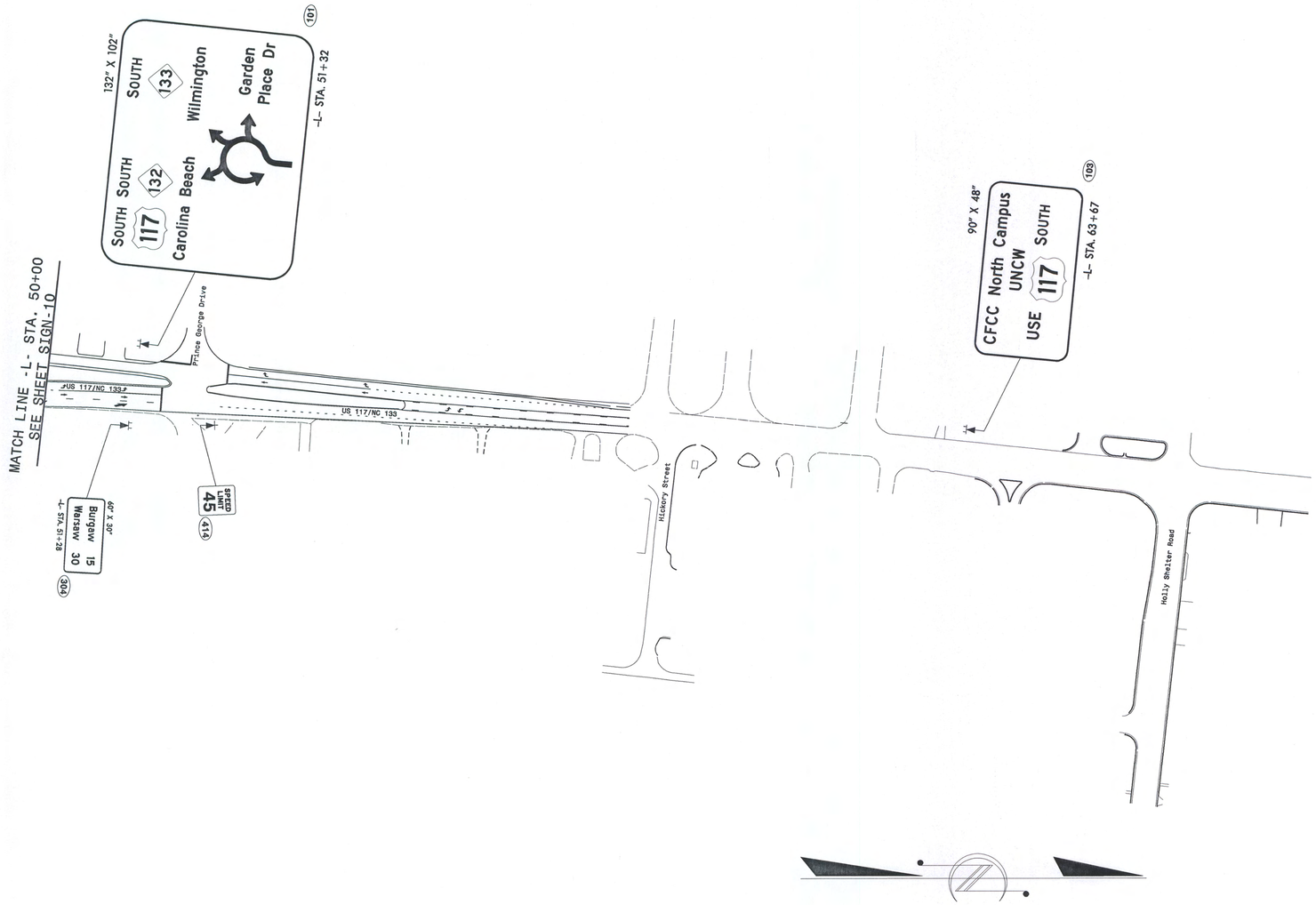
TIP NO.	SHEET NO.
W-5306	SIGN-11

APPROVED:

DATE: 11/6/13

SEAL

NORTH CAROLINA PROFESSIONAL SEAL 32396 ENGINEER WILLIAM J. HAMILTON



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PROPOSED SIGNING DETAIL