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**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

TIP NO. K-4908	SHEET NO. SIGN-1
APPROVED: <u>John Townsend</u> <small>53902880711474</small>	
DATE: 12/17/2014	
SEAL 	

**SIGNING PLAN
IREDELL COUNTY**

LOCATION: I-77 REST AREA ON NEW LOCATION

**TYPE OF WORK: GRADING, DRAINAGE, PAVING, TRAFFIC CONTROL, SIGNING,
LIGHTING, REST AREA AND FACILITIES**

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
901.20	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 (EXCEPT SHEETS 1 OF 3 AND 2 OF 3 WHICH ARE REPLACED WITH SHEETS SIGN-2D AND SIGN-2E IN PLANS.)
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
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.
- SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

SUMMARY OF QUANTITIES

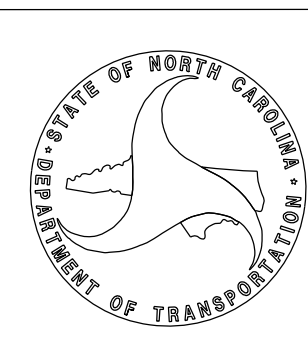
ITEM NO.	ITEM DESCRIPTION		QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	3	C.Y.
4054000000	902	PLAIN CONCRETE SIGN FOUNDATION	2	C.Y.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	741	L.B.
4066000000	903	SUPPORTS, SIMPLE STEEL BEAM	2,405	L.B.
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	1,000	L.F.
4096000000	904	SIGN ERECTION, TYPE D	10	E.A.
4102000000	904	SIGN ERECTION, TYPE E	43	E.A.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	8	E.A.
4110000000	904	SIGN ERECTION, TYPE B (GROUND MOUNTED)	4	E.A.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2-2E	SUPPORT INFORMATION AND SIGN DESIGNS
SIGN-3	E SHEET
SIGN-4-10	SIGN ROADWAY SHEETS

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

Kelvin L. Jordan SIGNING & DELINEATION REGIONAL ENGINEER
Jon Robert Navarrete SIGNING & DELINEATION PROJECT DESIGN ENGINEER



PLAN PREPARED BY: DAVENPORT

John G. Townsend, PE PROJECT ENGINEER
M. Scott Clark, PE PROJECT DESIGN ENGINEER

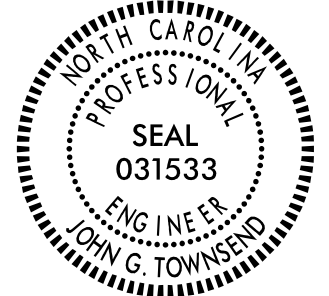


DAVENPORT
TRANSPORTATION CONSULTING
HOME OFFICE:
335 WEST FOURTH STREET, SUITE 2A
WINSTON-SALEM, NC 27101
336.744.1636 www.davenportinc.com
NCELS PERM LICENSE NO. 0-2102

T.I.P.: K-4908

CONTRACT: C203566

DATE PLOTTED: 12/17/2014 10:58:11 AM
PLOTTER: HP DesignJet T1140
SCALE: 1/8"=1'-0"
SHEET: 1 OF 10

TIP NO. K-4908	SHEET NO. SIGN-2
Approved by: <i>John Townsend</i> <small>53802888711474</small>	
DATE: 12/17/2014	
	

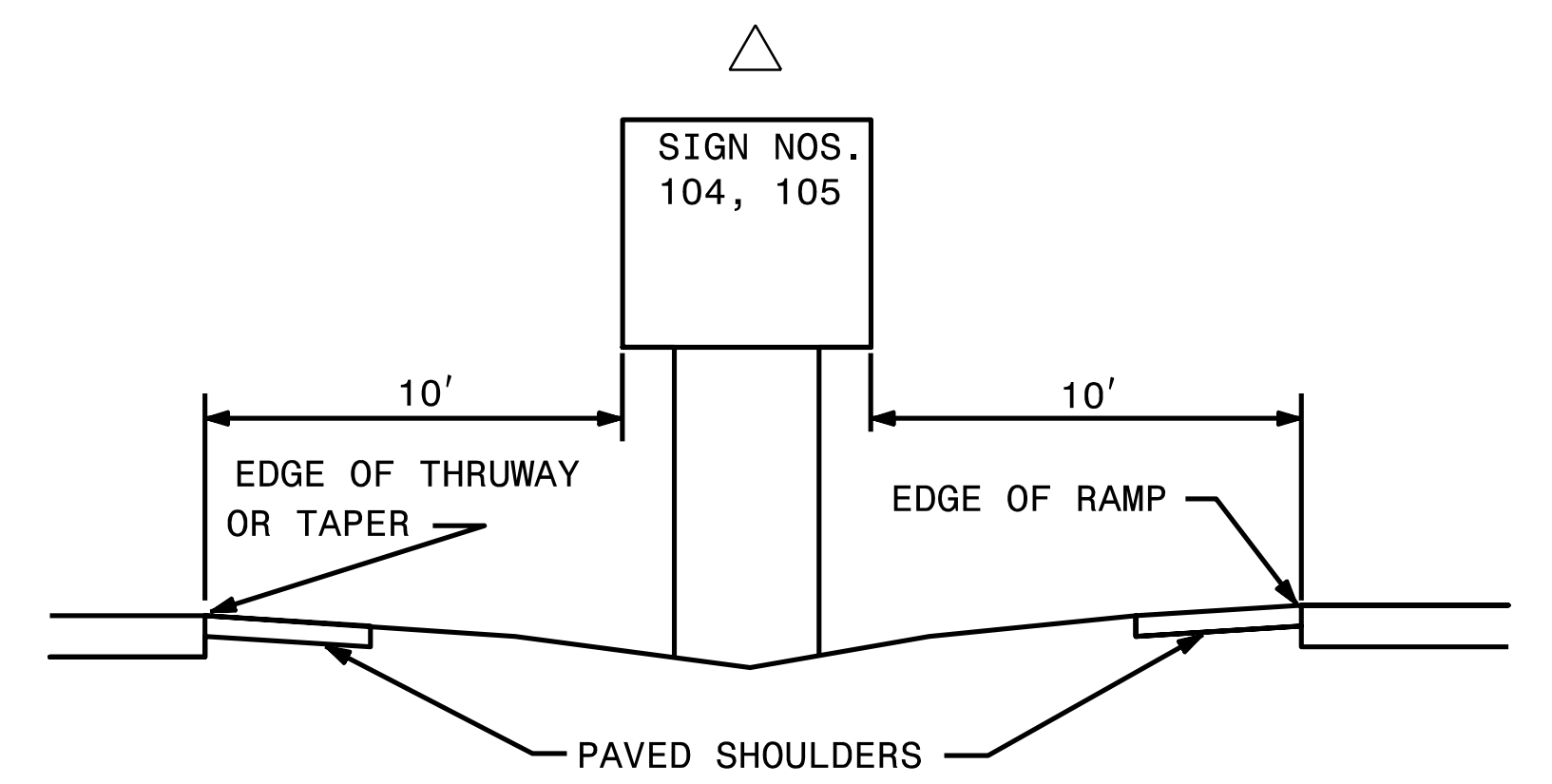
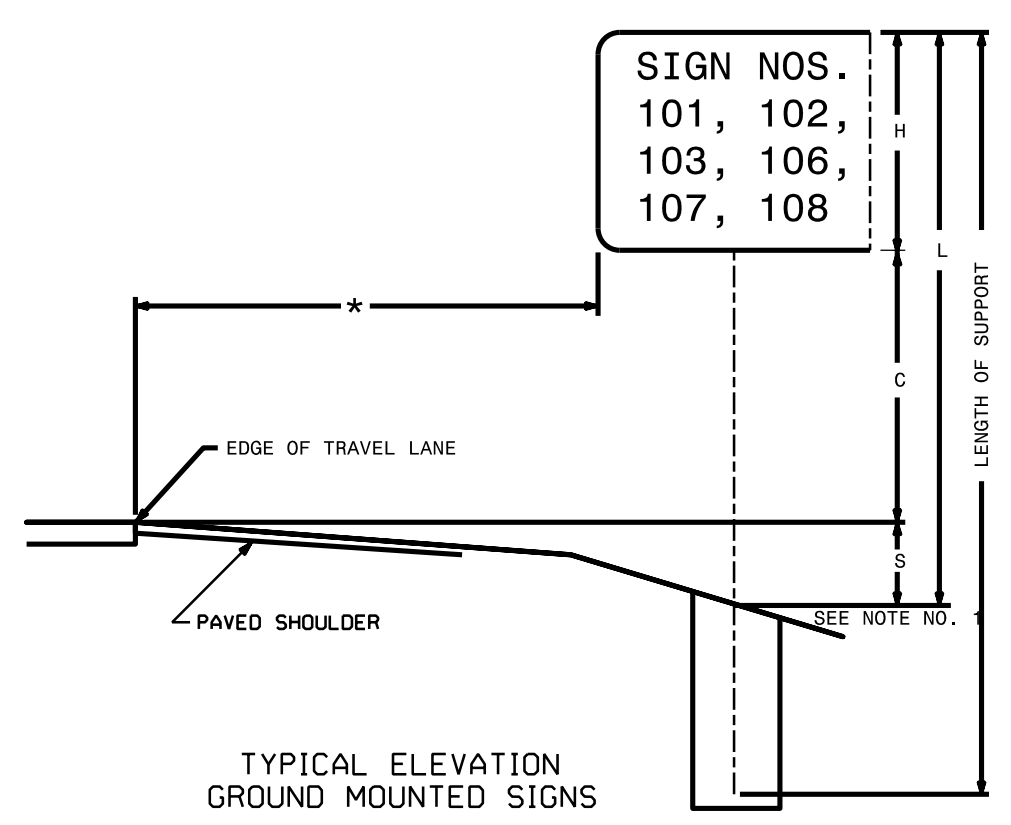
SIGN NO.	SIGN TYPE	SIGN SIZE (in.)		ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (ft.)	LENGTH (ft)			LEFT SUPPORT (ft)			CENTER SUPPORT (ft)			RIGHT SUPPORT (ft)			FOOTING DIAMETE (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	PLAIN FTGS. (c.y.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)	
		w	x								h	CLR.*	SNS HT H	MTG HT C	EMBED MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S								L
101A	B	72	X 30																											
101E	A	132	X 96		3	W6x9	S	1-R	N/A	20.00	8.00	7.00	4.5	1.63	16.63	21.13	0.96	15.96	20.46	0.50	15.50	20.00	1.5	5	0.00	554.25	0.98	0.00		
102A	B	72	X 30																											
102E	A	132	X 60		3	S3x5.7	S	1-R	N/A	25.00	5.00	7.00	4	1.96	13.96	17.96	1.17	13.17	17.17	0.58	12.58	16.58	1	4.5	0.00	294.74	0.00	0.39		
103	A	132	X 60	-INB- 18+65	3	S4x7.7	S	N/A	N/A	6.00	5.00	7.00	4	2.46	14.46	18.46	4.17	16.17	20.17	5.71	17.71	21.71	1	4.5	0.00	464.57	0.00	0.39		
104	A	78	X 78	-L1- 14+40	3	S3x5.7	BA	N/A	N/A	12.00	6.50	7.00	3.5	1.31	14.81	18.31	1.86	15.36	18.86	1.31	14.81	18.31	1	4	370.25	0.00	0.00	0.35		
105	A	78	X 78	-L3- 14+52	3	S3x5.7	BA	N/A	N/A	12.00	6.50	7.00	3.5	1.31	14.81	18.31	1.86	15.36	18.86	1.31	14.81	18.31	1	4	370.25	0.00	0.00	0.35		
106	A	132	X 60	-LSB- 84+52	3	S3x5.7	S	N/A	N/A	20.00	5.00	7.00	3.5	1.00	13.00	16.50	0.08	12.08	15.58	-0.33	11.67	15.17	1	4	0.00	269.33	0.00	0.35		
107A	B	72	X 30																											
107E	A	132	X 60		3	S3x5.7	S	1-R	N/A	20.00	5.00	7.00	4	1.38	13.38	17.38	0.79	12.79	16.79	0.29	12.29	16.29	1	4.5	0.00	287.61	0.00	0.39		
108A	B	72	X 30																											
108E	A	132	X 96		3	W6x9	S	1-R	N/A	20.00	8.00	7.00	4	1.54	16.54	20.54	1.13	16.13	20.13	-0.38	14.63	18.63	1.5	4.5	0.00	533.63	0.88	0.00		

TOTAL	TOTAL	TOTAL	TOTAL
740.49	2404.12	1.87	2.23

USE: 741 2405 2 3

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.
-



TYPE "A" AND TYPE "B" GROUND MOUNTED SIGNS

12/17/2014 10:58:58 AM JOHN G. TOWNSEND
 C:\TEMP\DWG\COPY\121714\121714.DWG
 PLOTTER: HP DesignJet 2450



SIGN NUMBER: 101A, 102A, 107A, 108A TYPE: B QUANTITY: 4	BACKG COLOR: Yellow COPY COLOR: Black	DESIGN BY: JGT PROJECT ID: K-4908	CHECKED BY: DIV: 12	DATE: Oct 22, 2014
SIGN WIDTH: 6'-0" HEIGHT: 2'-6" TOTAL AREA: 15.0 Sq.Ft.		<p>BORDER R=3" TH=1.25" IN=0.75"</p>		
BORDER TYPE: FLUSH RECESS: 0.75" WIDTH: 1.25" RADII: 3"				
NO. Z BARS: 2 LENGTH:				
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.				

Letter spacings are to start of next letter											Series/Size Text Length	
	L	E	F	T								E 2000 42.8
	14.6	11.5	12	10.2	9	14.6						

FILENAME: K4908_sgn_signdesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 102B, 107B TYPE: A QUANTITY: 2	BACKG COLOR: Blue COPY COLOR: White	DESIGN BY: JGT PROJECT ID: K-4908	CHECKED BY: DIV: 12	DATE: Oct 22, 2014
SIGN WIDTH: 11'-0" HEIGHT: 5'-0" TOTAL AREA: 55.0 Sq.Ft.		<p>BORDER R=9" TH=2"</p>		
BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 9"				
NO. Z BARS: 2 LENGTH: 124.0				
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.				

Letter spacings are to start of next letter											Series/Size Text Length	
	R	E	S	T	A	R	E	A				E 2000 103.8
	14.1	12.1	10.7	11	9	12	14.3	12.1	10.3	12.2	14.1	
	1	M	I	L	E							E 2000 52.6
	39.3	4.5	15	12	4.4	9.2	7.5	40.1				

FILENAME: K4908_sgn_signdesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 101B TYPE: A QUANTITY: 1	BACKG COLOR: Blue / Blue COPY COLOR: White	DESIGN BY: JGT PROJECT ID: K-4908	CHECKED BY: DIV: 12	DATE: Sep 25, 2014
SIGN WIDTH: 11'-0" HEIGHT: 8'-0" TOTAL AREA: 88.0 Sq.Ft.		<p>BORDER R=12" TH=2"</p>		
BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12"				
NO. Z BARS: 3 LENGTH: 124.0				
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.				

Letter spacings are to start of next letter											Series/Size Text Length					
	R	E	S	T	A	R	E	A				D 2000 88.2				
	21.9	10.2	8.6	9.1	7.4	12	12	10.2	8.4	10.2	21.9					
	2	M	I	L	E	S						D 2000 61.1				
	35.5	10.2	15	10.2	4	7.7	7.2	6.8	35.5							
	N	E	X	T	R	E	S	T	A	R	E	A	D 2000 113.7			
	9.2	9.2	7.2	7.6	6.2	10	8.5	7.2	7.6	6.2	10	10	8.5	7	8.5	9.2
	1	7	M	I	L	E	S						D 2000 57.1			
	37.5	4.4	6.8	10	10.2	4	7.7	7.2	6.8	37.5						

FILENAME: K4908_sgn_signdesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103, 106 TYPE: A QUANTITY: 2	BACKG COLOR: Blue COPY COLOR: White	DESIGN BY: JGT PROJECT ID: K-4908	CHECKED BY: DIV: 12	DATE: Oct 22, 2014
SIGN WIDTH: 11'-0" HEIGHT: 5'-0" TOTAL AREA: 55.0 Sq.Ft.		<p>BORDER R=9" TH=2"</p>		
BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 9"				
NO. Z BARS: 2 LENGTH: 124.0				
USE NOTES: 1, 2				
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.				

Letter spacings are to start of next letter											Series/Size Text Length	
	R	E	S	T	A	R	E	A				E 2000 103.8
	16.1	12.7	11.1	11.4	9	9.2	14.8	12.7	10.7	12.2	12.1	
	N	E	X	T	L	E	F	T				E 2000 106.6
	12.7	13.6	11.1	12.1	9	18	11.6	12	10.2	9	12.7	

FILENAME: K4908_sgn_signdesigns NORTH CAROLINA D.O.T. SIGN DETAIL

APPROVED: *John Townsend*
35802868B711474

DATE: 12/17/2014



SIGN NUMBER: 104, 105 **BACKG COLOR:** Blue **DESIGN BY:** JGT **CHECKED BY:**
TYPE: A **COPY COLOR:** White **PROJECT ID:** K-4908 **DIV:** 12 **DATE:** Oct 22, 2014

QUANTITY: 2

SYMBOL	X	Y	WID	HT
AR_Type A	25.5	7.4	18.3	29.3

SIGN WIDTH: 6'-6"
HEIGHT: 6'-6"
TOTAL AREA: 42.3 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 9"
MAT'L: 0.125" (3.2 mm) ALUMINUM

NO. Z BARS: 2
LENGTH: 70.0

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 and demountable.

LETTER POSITIONS

Letter spacings are to start of next letter											Series/Size	Text Length
	R	E	S	T							D 2000	42.8
17.6	12.1	10.7	11	9	17.6						E 2000	49
	A	R	E	A								
14.5	14.3	12.1	10.3	12.2	14.5							

FILENAME: K4908_sgn_signdesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 303, 307 **BACKG COLOR:** Blue **DESIGN BY:** JGT **CHECKED BY:**
TYPE: D **COPY COLOR:** White **PROJECT ID:** K-4908 **DIV:** 12 **DATE:** Oct 22, 2014

QUANTITY: 2

SYMBOL	X	Y	WID	HT
AR_Type D	5.3	7.3	6	9

SIGN WIDTH: 8'-6"
HEIGHT: 2'-0"
TOTAL AREA: 17.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.75"
RADII: 3"
MAT'L: 0.125" (3.2 mm) ALUMINUM

NO. Z BARS:
LENGTH:
R=3"
TH=0.75"

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 and demountable.

LETTER POSITIONS

Letter spacings are to start of next letter															Series/Size	Text Length				
	C	A	R	S	,	C	A	R	S	W	I	T	H		D 2000	69.7				
18.4	4.9	6	4.7	4.6	1.1	6	4.9	6	4.7	4.1	6	6.2	1.9	4.6	4.1	13.9	E 2000	78.4		
	T	R	A	I	L	E	R	S	,	&	B	U	S	E	S					
18.4	4.6	4.6	6	2.4	4.6	4.7	4.7	4.6	1.1	6	5.3	6	5.1	5.1	5.1	4.3	4.1	5.3		

FILENAME: K4908_sgn_signdesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302, 308 **BACKG COLOR:** Blue **DESIGN BY:** JGT **CHECKED BY:**
TYPE: D **COPY COLOR:** White **PROJECT ID:** K-4908 **DIV:** 12 **DATE:** Oct 22, 2014

QUANTITY: 2

SYMBOL	X	Y	WID	HT
AR_Type D	40.4	5.4	6	9

SIGN WIDTH: 4'-6"
HEIGHT: 1'-6"
TOTAL AREA: 6.8 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADII: 3"
MAT'L: 0.125" (3.2 mm) ALUMINUM

NO. Z BARS:
LENGTH:
R=3"
TH=1"

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 and demountable.

LETTER POSITIONS

Letter spacings are to start of next letter							Series/Size	Text Length
	T	R	U	C	K	S	D 2000	29.4
6.4	4.6	5.1	5.4	5.4	4.8	4.1	18.2	

FILENAME: K4908_sgn_signdesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304, 309 **BACKG COLOR:** Blue **DESIGN BY:** JGT **CHECKED BY:**
TYPE: D **COPY COLOR:** White **PROJECT ID:** K-4908 **DIV:** 12 **DATE:** Dec 04, 2014

QUANTITY: 2

SYMBOL	X	Y	WID	HT
--------	---	---	-----	----

SIGN WIDTH: 1'-3"
HEIGHT: 0'-6"
TOTAL AREA: 0.6 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.38"
RADII: 1"
MAT'L: 0.125" (3.2 mm) ALUMINUM

NO. Z BARS:
LENGTH:
R=1"
TH=0.38"

USE NOTES: 1, 2

- Legend and border (except those that are colored black) shall be direct applied Grade C sheeting.
- 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			
	P	E	T	E	X	E	R	C	I	S	E	B 2000	12		
1.5	1.1	0.9	0.8	1	1	1.3	1.1	1.1	1.2	0.6	1.2	0.8	1.5		
	A	R	E	A								B 2000	4.5		
5.2	1.4	1.2	0.9	1.1	5.2										

FILENAME: Special Signs4 NORTH CAROLINA D.O.T. SIGN DETAIL

\$\$\$ C:\P\L\T\M\J\K\O\C\N\I\S\\$\$
 \$\$\$ USER NAME: JGT \$\$\$
 \$\$\$ 12/17/2014 \$\$\$



SIGN NUMBER: 305, 310 BACKG COLOR: Blue
TYPE: D COPY COLOR: White
QUANTITY: 2

SIGN WIDTH: 1'-3"
HEIGHT: 0'-6"
TOTAL AREA: 0.6 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.38"
RADII: 1"

NO. Z BARS: 3
LENGTH: 124.0

DESIGN BY: JGT CHECKED BY: DATE: Dec 08, 2014
PROJECT ID: K-4908 DIV: 12

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
	P	E	T		E	X	E	R	C	I	S	E				B 2000
1.5	1.1	0.9	0.8	1	1	1.3	1.1	1.1	1.2	0.6	1.2	0.8	1.5			12
	A	R	E	A												B 2000
3.3	1.4	1.2	0.9	1.1	7.2											4.5

FILENAME: Special Signs4 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 10BB BACKG COLOR: Blue / Blue
TYPE: A COPY COLOR: White
QUANTITY: 1

SIGN WIDTH: 11'-0"
HEIGHT: 8'-0"
TOTAL AREA: 88.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"

NO. Z BARS: 3
LENGTH: 124.0

DESIGN BY: JGT CHECKED BY: DATE: Sep 25, 2014
PROJECT ID: K-4908 DIV: 12

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.

LETTER POSITIONS

Letter spacings are to start of next letter																				Series/Size	Text Length
	R	E	S	T		A	R	E	A											D 2000	
21.9	10.2	8.6	9.1	7.4	12	12	10.2	8.4	10.2	21.9										88.2	
		M	I	L	E	S														D 2000	
35.4	10.2	15	10.2	4	7.7	7.2	6.8	35.4												61.1	
	N	E	X	T		R	E	S	T		A	R	E	A						D 2000	
9.1	9.2	7.2	7.6	6.2	10	8.5	7.2	7.6	6.2	10	10	8.5	7	8.5	9.2					113.7	
			M	I	L	E	S													D 2000	
37.4	8.8	2.5	10	10.2	4	7.7	7.2	6.8	37.4											57.2	

FILENAME: K4908_sgn_signesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 301, 306 BACKG COLOR: White
TYPE: D COPY COLOR: Black
QUANTITY: 2

SIGN WIDTH: 5'-6"
HEIGHT: 2'-0"
TOTAL AREA: 11.0 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0.38"
WIDTH: 0.63"
RADII: 1.5"

NO. Z BARS: 3
LENGTH: 124.0

DESIGN BY: JGT CHECKED BY: DATE: Sep 24, 2014
PROJECT ID: K-4908 DIV: 12

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.

LETTER POSITIONS

Letter spacings are to start of next letter																				Series/Size	Text Length
	I	N		C	A	S	E		O	F										C 2000	
19.3	1.4	2.2	4	2.7	2.9	2.9	2	4	3.2	2	19.3									27.5	
	H	A	Z	A	R	D	O	U	S		S	P	I	L	L					C 2000	
12.2	2.8	2.9	2.6	3.1	2.9	3	3.2	2.9	2.2	4	2.9	3	1.4	2.6	2	12.2				41.7	
	C	L	O	S	E		R	E	T	E	N	T	I	O	N		G	A	T	E	C 2000
5.8	3	2.5	3	2.9	2	4	2.9	2.4	2.6	2.7	2.8	2.6	1.4	3.2	2.2	4	2.7	2.8	2.6	2	5.8

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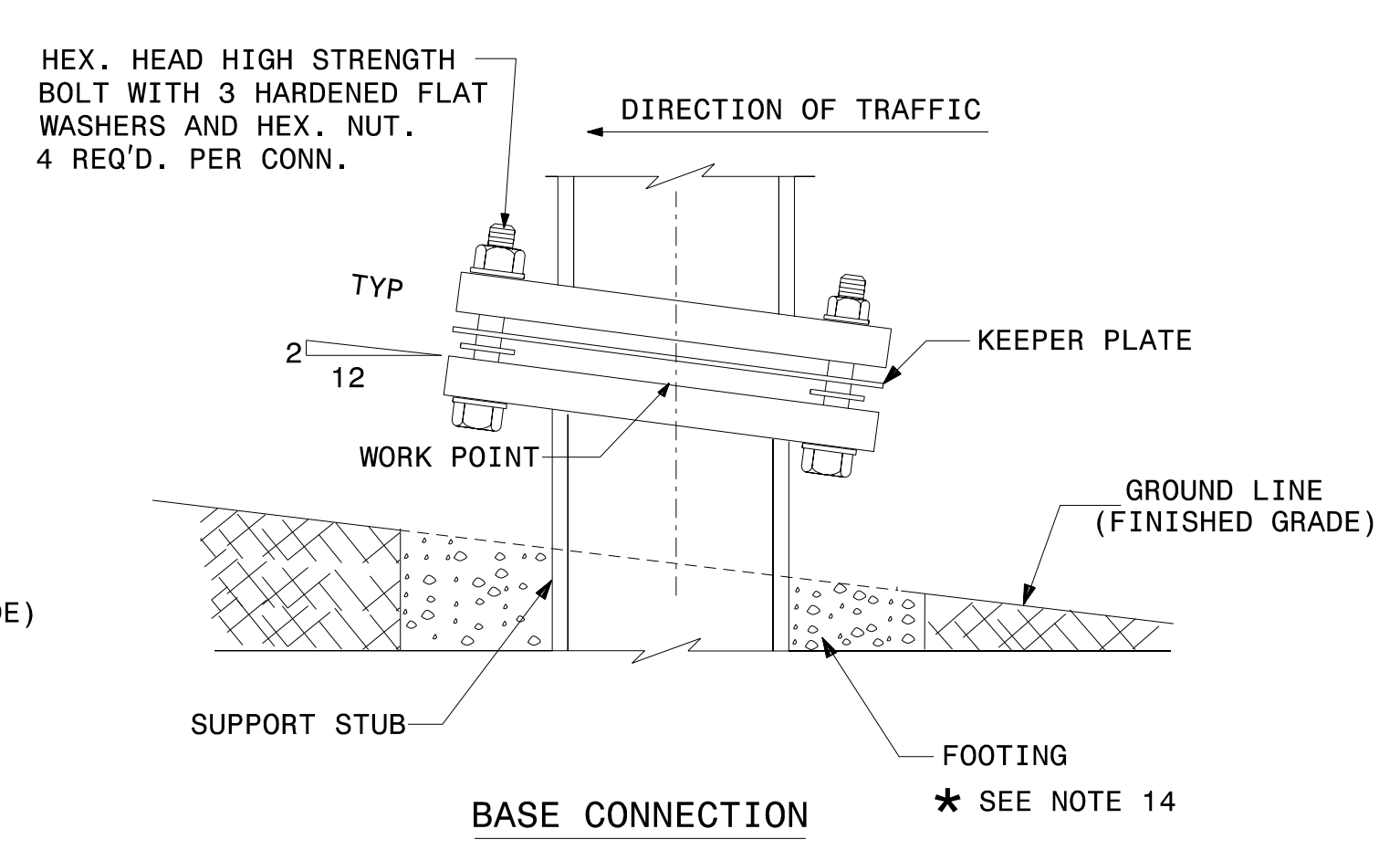
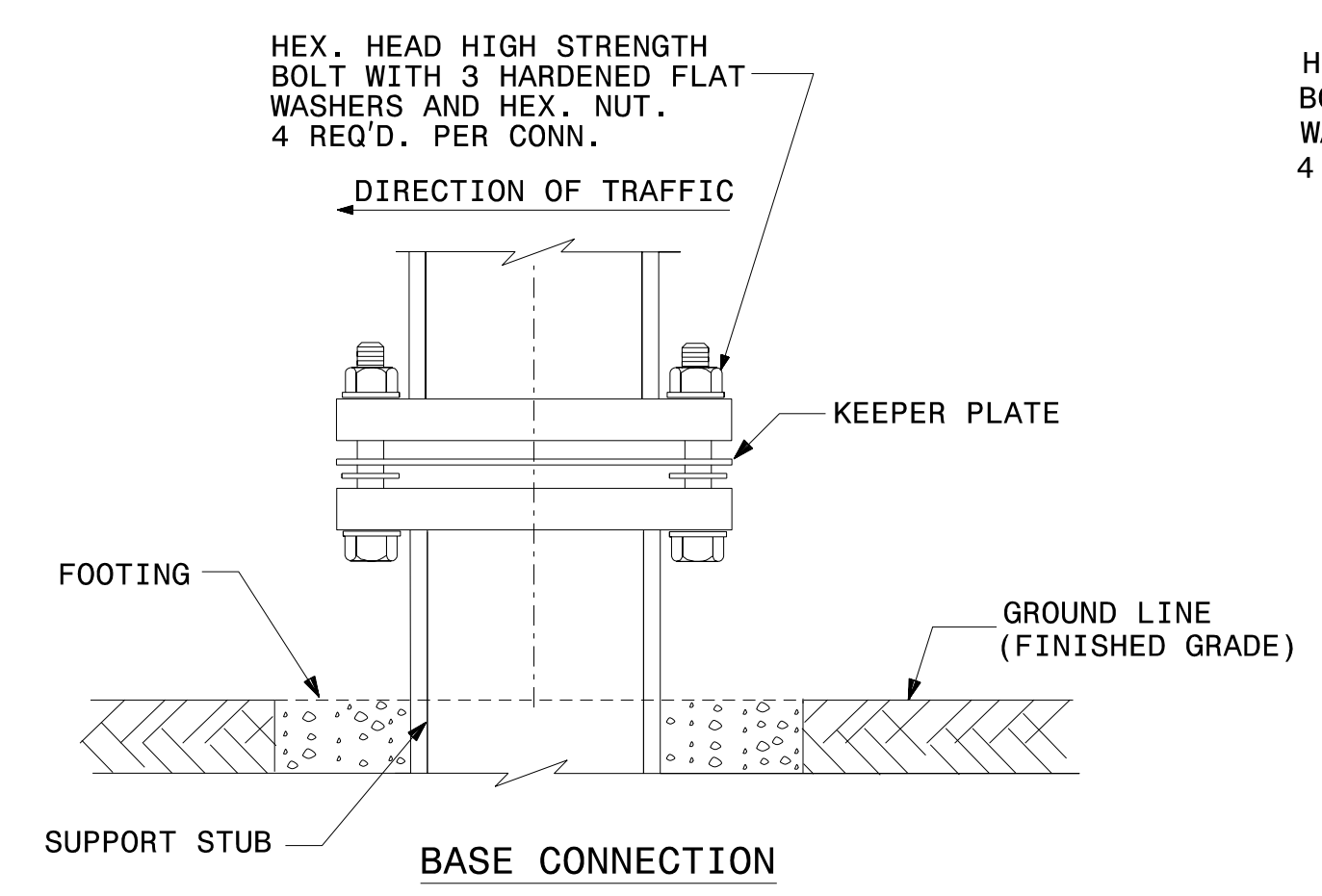
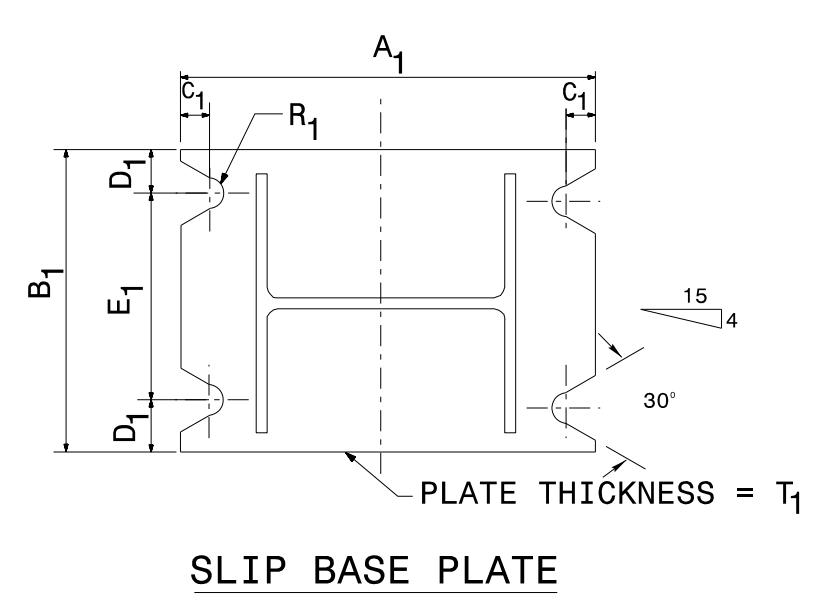
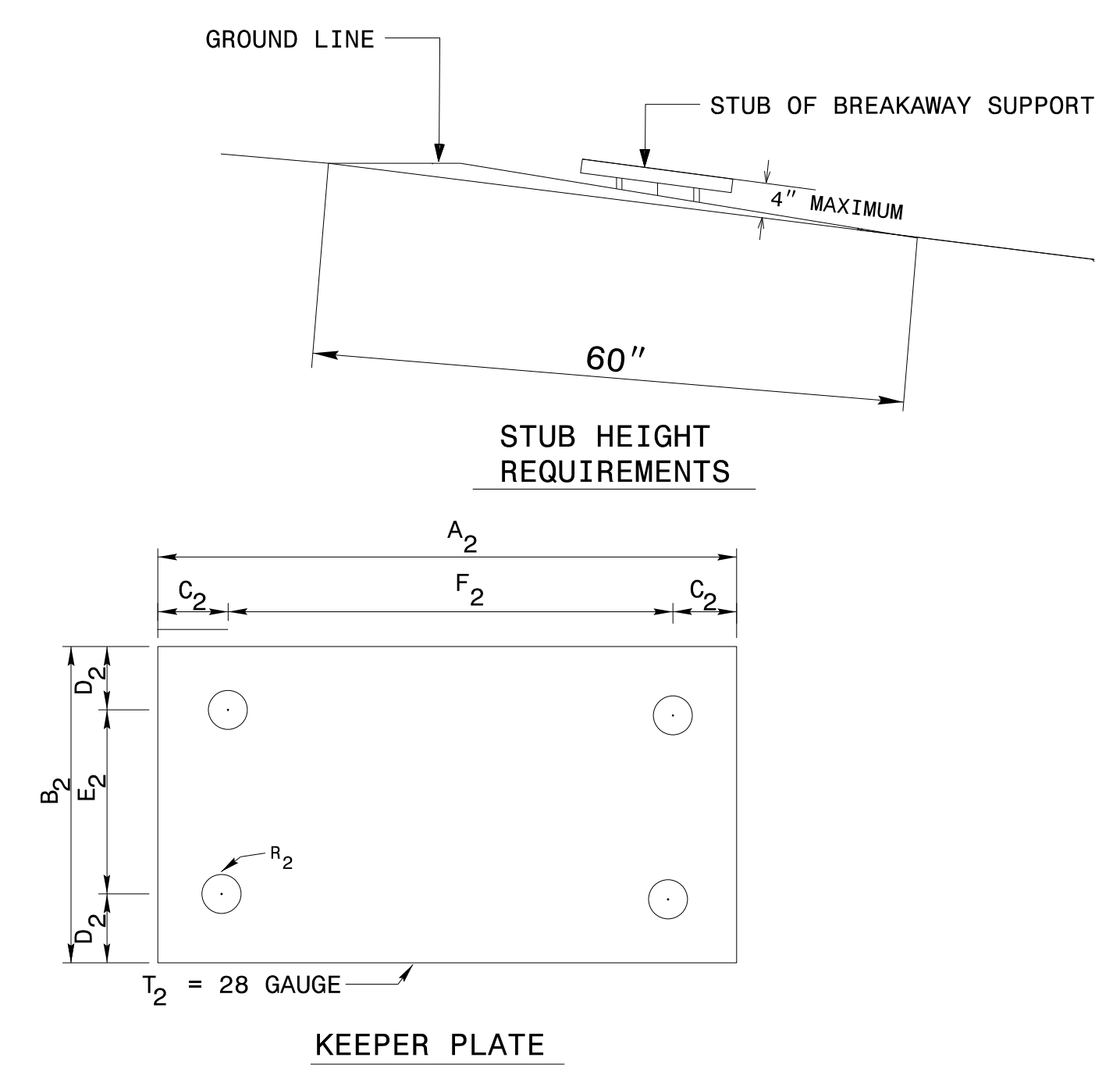
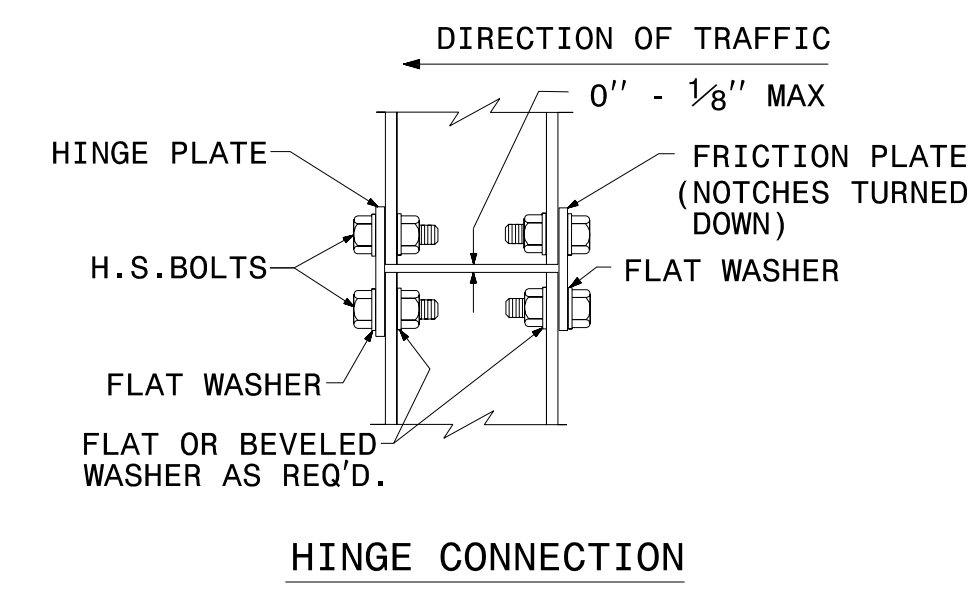
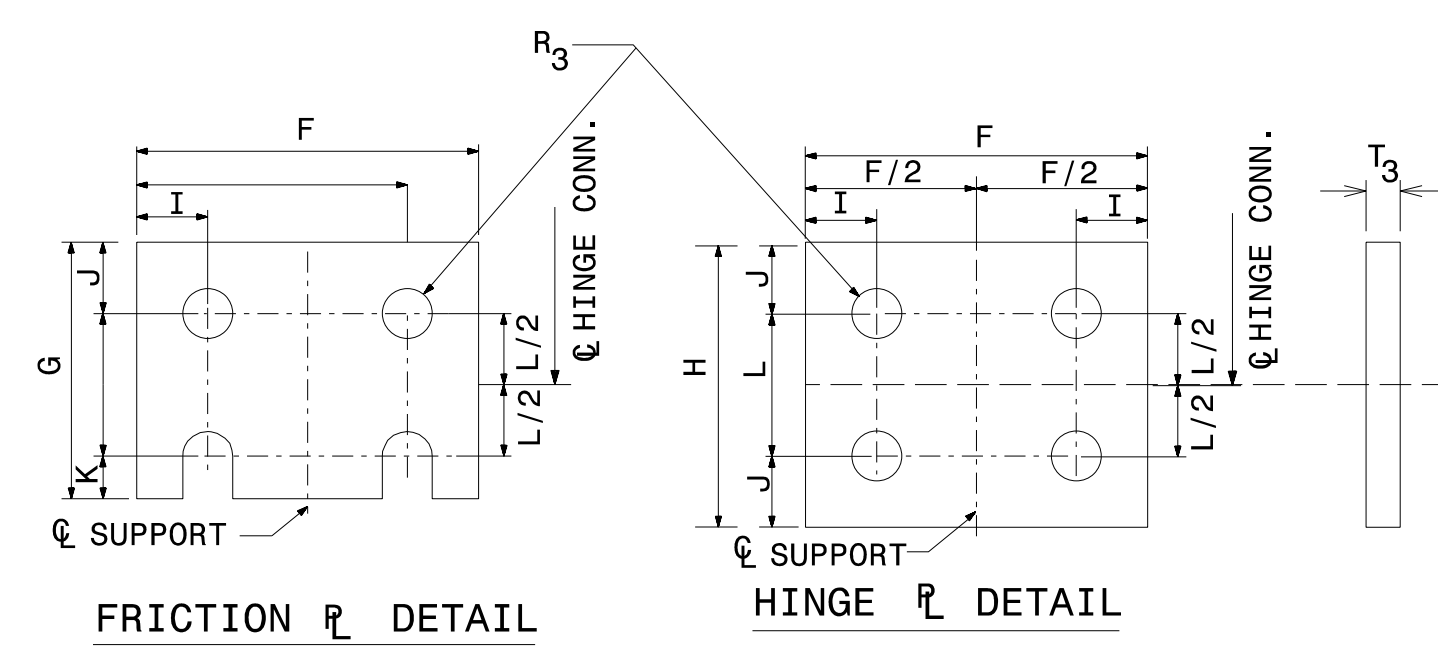
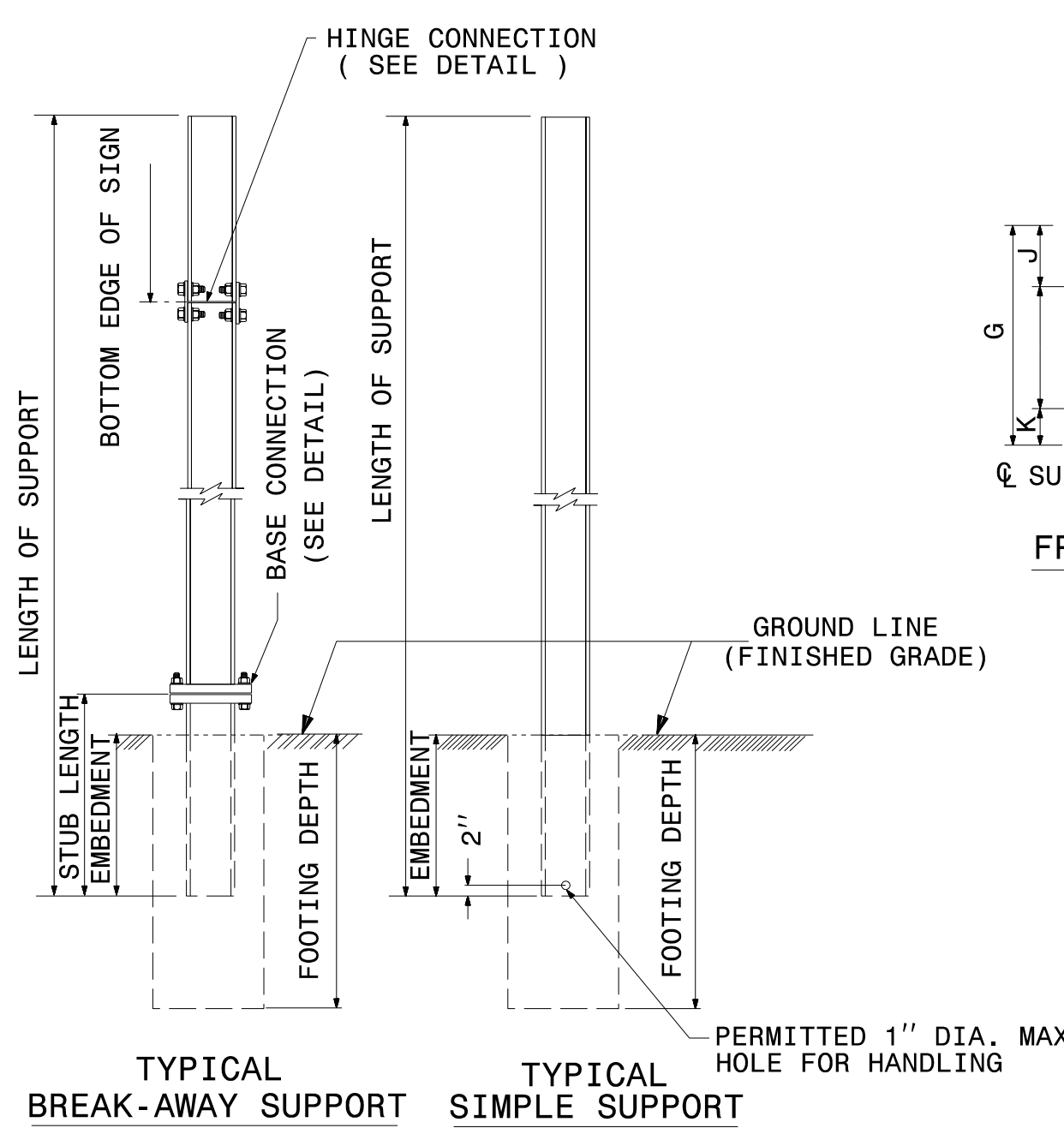
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STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

1-12

ENGLISH STANDARD DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 1 OF 3
903D10



SEE SHEET 2 OF 3 FOR
BASE CONNECTION DATA
HINGE CONNECTION DATA
& FOUNDATION DATA.
SEE SHEET 3 OF 3 FOR
GENERAL NOTES.

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

1-12

ENGLISH STANDARD DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

SHEET 1 OF 3
903D10

12/17/2014 5:56:00 Special Signing\Special Signs\bobby\Specia1_Signs4.dgn User: bobby

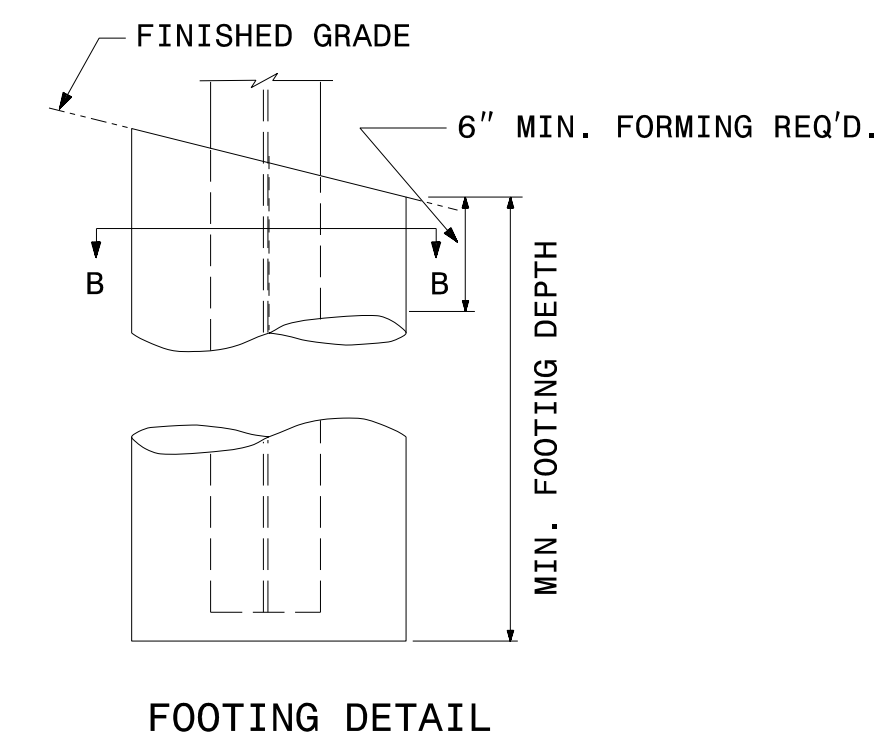
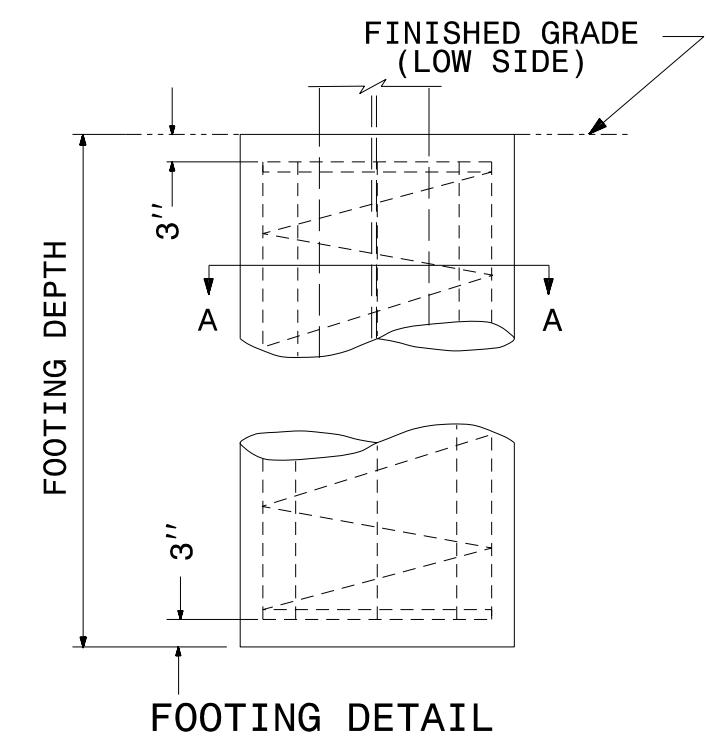
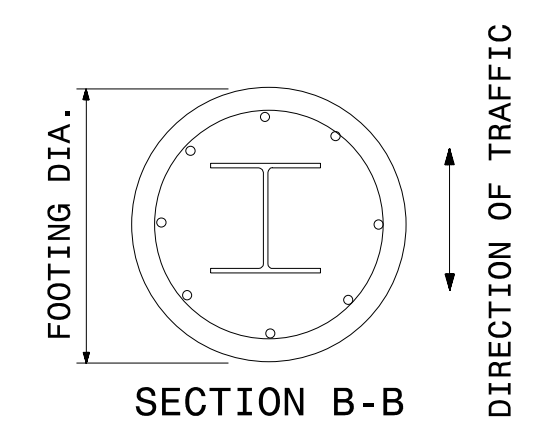
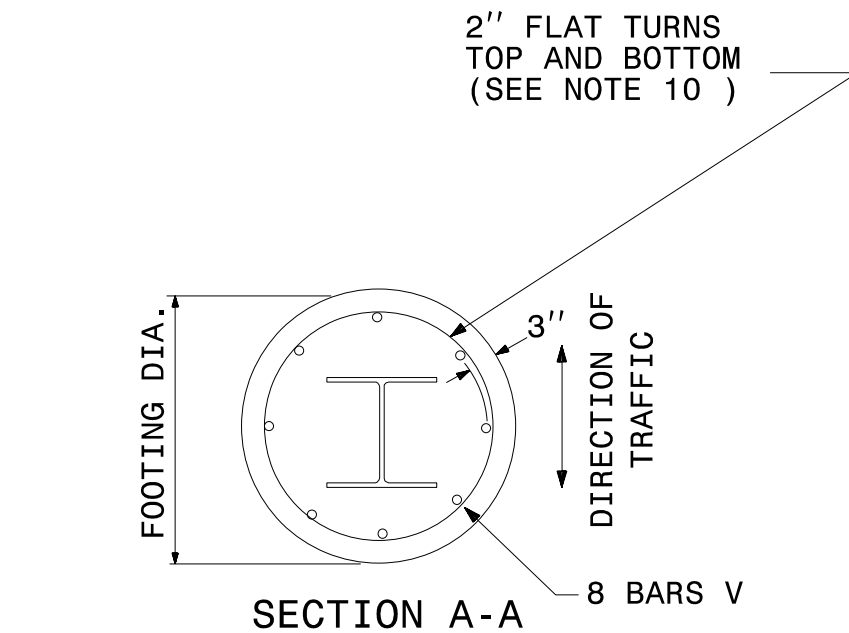
APPROVED: *Ron Ewing*
 DATE: 12/17/2014



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

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

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 3/4"	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. X 1 3/4"	2 1/4"	3 1/2"	4"	1/2"	1"	1/2"	2"	9/32"	3/8"	18
S4X7.7	1/2" DIA. X 3/4"	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. X 1 3/4"	2 5/8"	3 1/2"	4"	1/2"	1"	1/2"	2"	9/32"	3/8"	20
W6X9	1/2" DIA. X 3/4"	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. X 1 3/4"	4"	3 1/2"	4"	3/4"	1"	1/2"	2"	9/32"	3/8"	32
W6X12	5/8" DIA. X 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"	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 4 1/2"	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 1/2"	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 1/2"	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 1/2"	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 1/2"	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 1/2"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	13/32"	1/2"	119
W10X26	3/4" DIA. X 5 1/2"	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 5 1/2"	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 6"	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 6"	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"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	223
W18X35	1" DIA. X 6"	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"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	3/4"	243
W18X40	1" DIA. X 6 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 1/2"	6"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	278
W21X44	1" DIA. X 7"	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 1/2"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	17/32"	7/8"	310



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

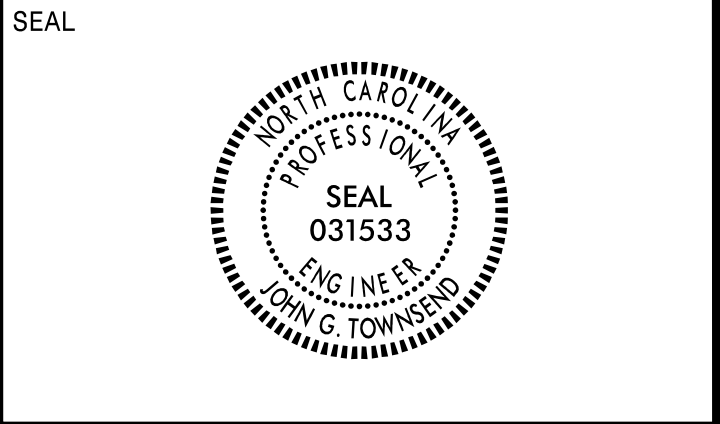
STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
GROUND MOUNTED SIGN SUPPORTS

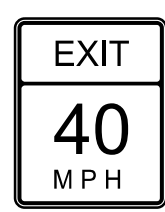
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APPROVED: *John Townsend*
-53802868711474-

DATE: 12/17/2014




(401) QUANTITY REQ'D 2



24 X 30
W13-2

ONE "U" POST PER SIGN

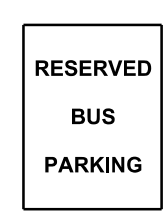
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54 X 18
R6-1 (R)

TWO "U" POSTS PER SIGN

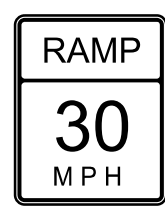
(411) QUANTITY REQ'D 4



30 X 30
W3-1

ONE "U" POST PER SIGN


(402) QUANTITY REQ'D 2



24 X 30
W13-3

ONE "U" POST PER SIGN


(407) QUANTITY REQ'D 4



36 X 36 X 36
R1-2

ONE "U" POST PER SIGN

(412) QUANTITY REQ'D 2



30 X 24
R5-11

ONE "U" POST PER SIGN


(403) QUANTITY REQ'D 2



24 X 9
M10-20

ONE "U" POST PER SIGN

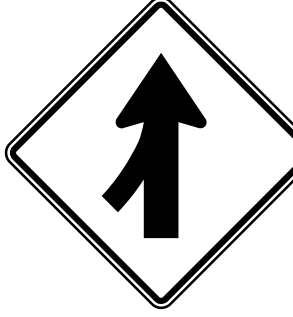
(408) QUANTITY REQ'D 4



18 X 24
R7-302a

ONE "U" POST PER SIGN


(404) QUANTITY REQ'D 2



48 X 48
W4-1 (L)

TWO "U" POSTS PER SIGN


(409) QUANTITY REQ'D 4



36 X 24
R5-1a

ONE "U" POST PER SIGN


(405) QUANTITY REQ'D 3



54 X 18
R6-1 (L)

TWO "U" POSTS PER SIGN

(410) QUANTITY REQ'D 8



30 X 30
R5-1


ONE "U" POST PER SIGN

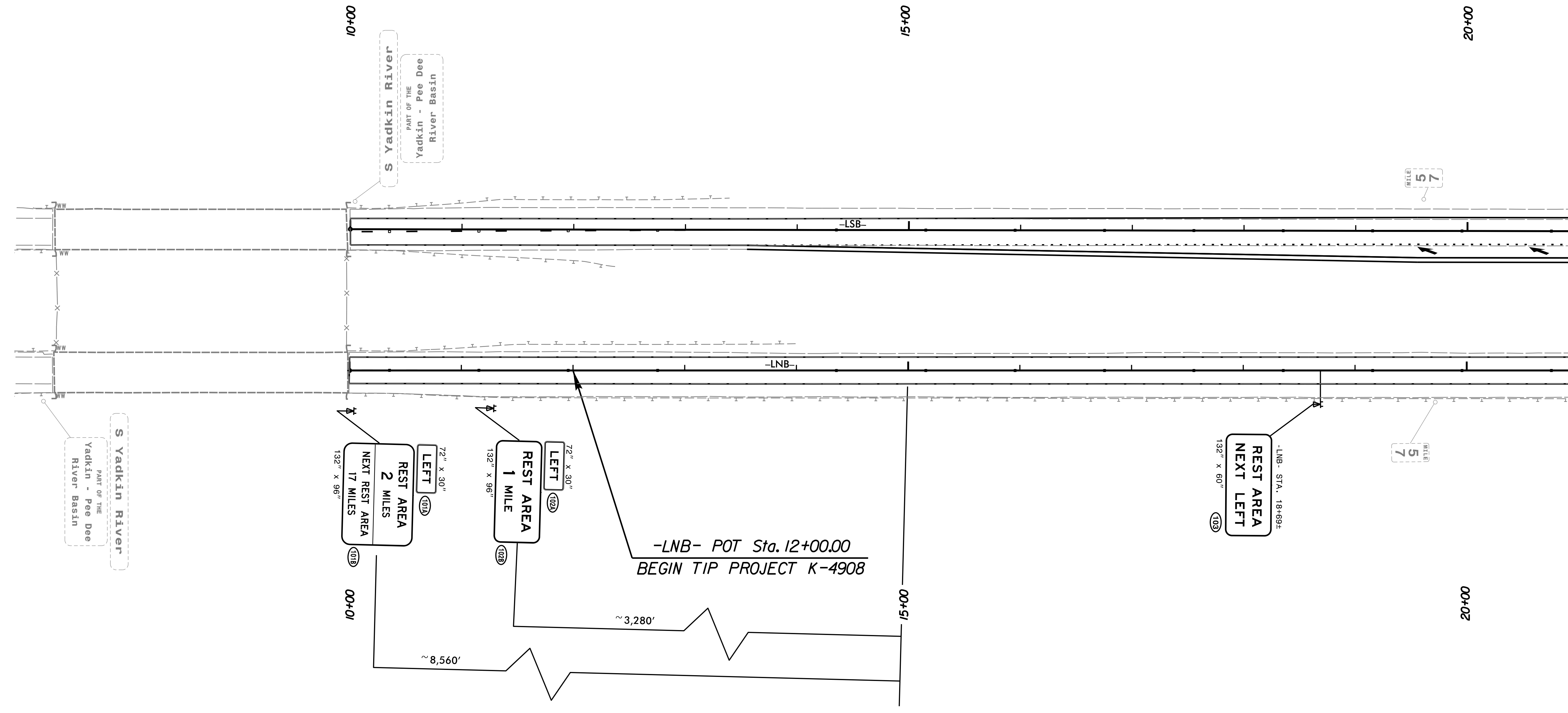
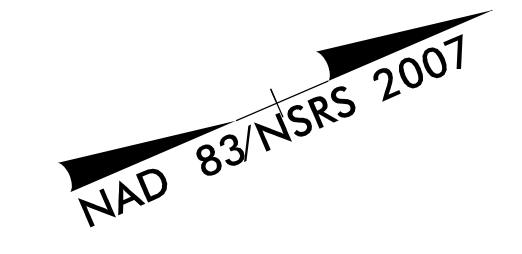
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11/17/14 11:00 AM
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B.17/99

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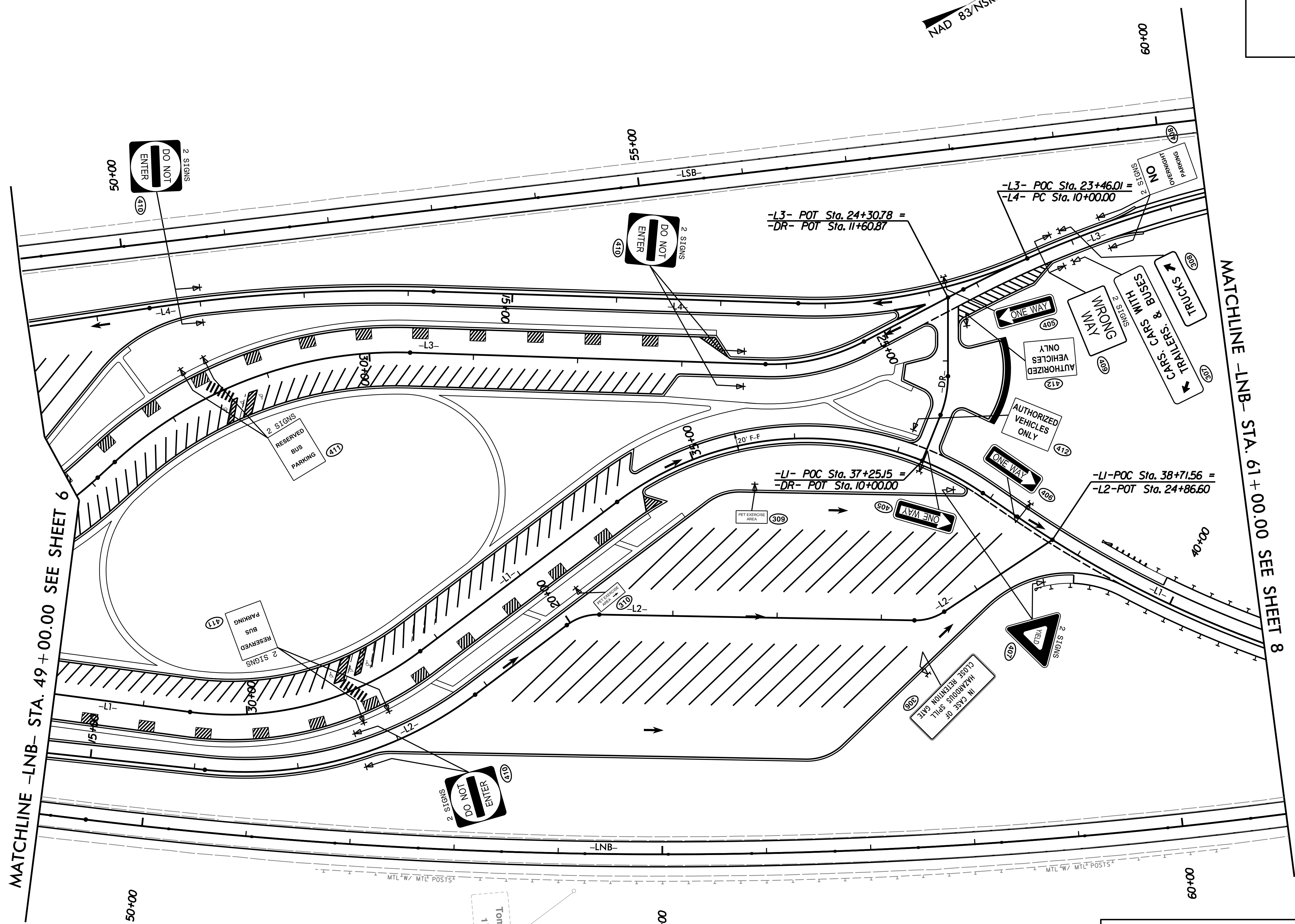
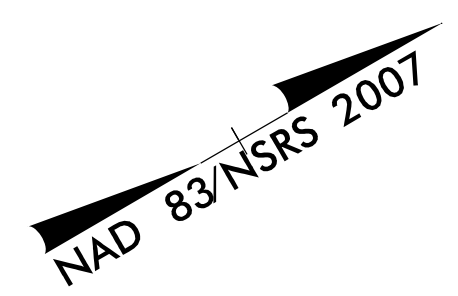
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DocuSigned by: John Townsend 53B28688711474... 12/17/2014	
	



EXISTING AND PROPOSED SIGNS
-LNB- STA. 10+00 TO -LNB- STA. 21+00
I-77

MATCHLINE -LNB- STA. 21+00.00 SEE SHEET 5

DocuSigned by:
John Townsend
53802868711474
12/17/2014



EXISTING AND PROPOSED SIGNS
-LNB- STA. 49+00 TO -LNB- STA. 61+00
I-77

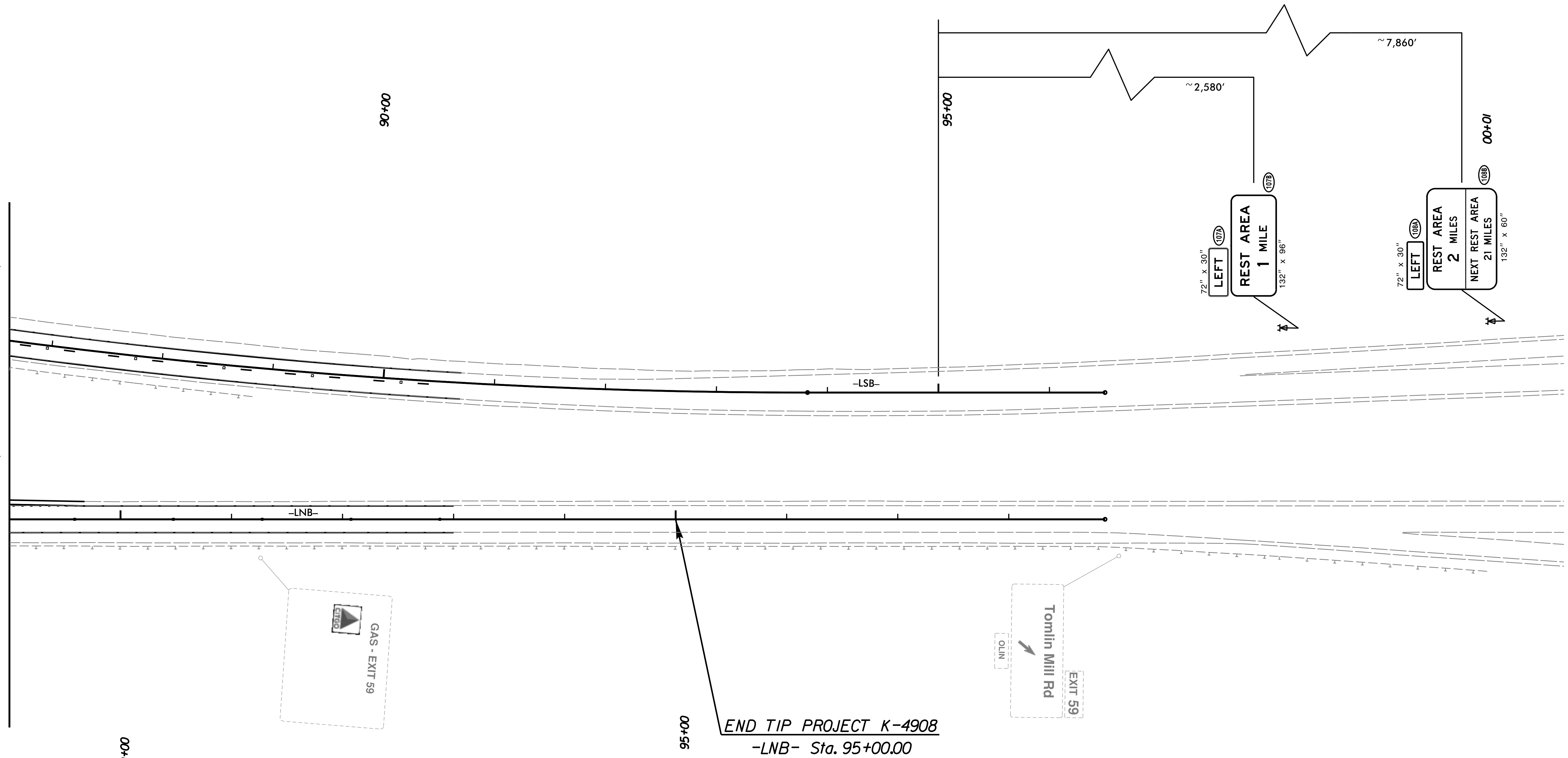
B.17/99
 COUNTY OF WAKE, NORTH CAROLINA
 PROJECT NO. K-4908
 SHEET NO. SIGN-7
 DATE: 12/17/2014
 DRAWN BY: J. TOWNSEND
 CHECKED BY: J. TOWNSEND
 APPROVED BY: J. TOWNSEND
 TITLE: PROJECT ENGINEER
 LICENSE NO. 031533
 STATE: NORTH CAROLINA

DocuSigned by:
John Townsend
133023658711474
12/17/2014



NAD 83/NSRS 2007

MATCHLINE -LNB- STA. 89 + 00.00 SEE SHEET 9



95+00 END TIP PROJECT K-4908
-LNB- Sta. 95+00.00

EXISTING AND PROPOSED SIGNS
-LNB- STA. 89+00 TO -LNB- STA. 98+86.72
I-77

90+00
90+05
90+10
90+15
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90+25
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