

T.I.P.: R-2201

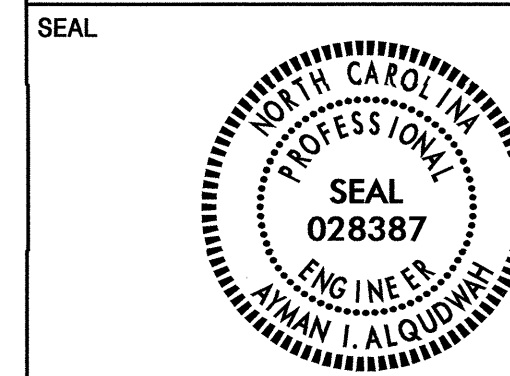
CONTRACT: C202042

20 OCT 2008 14:46
c:\p\proj\c202042\signing\CADD\metseend.dgn
wdbrew

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

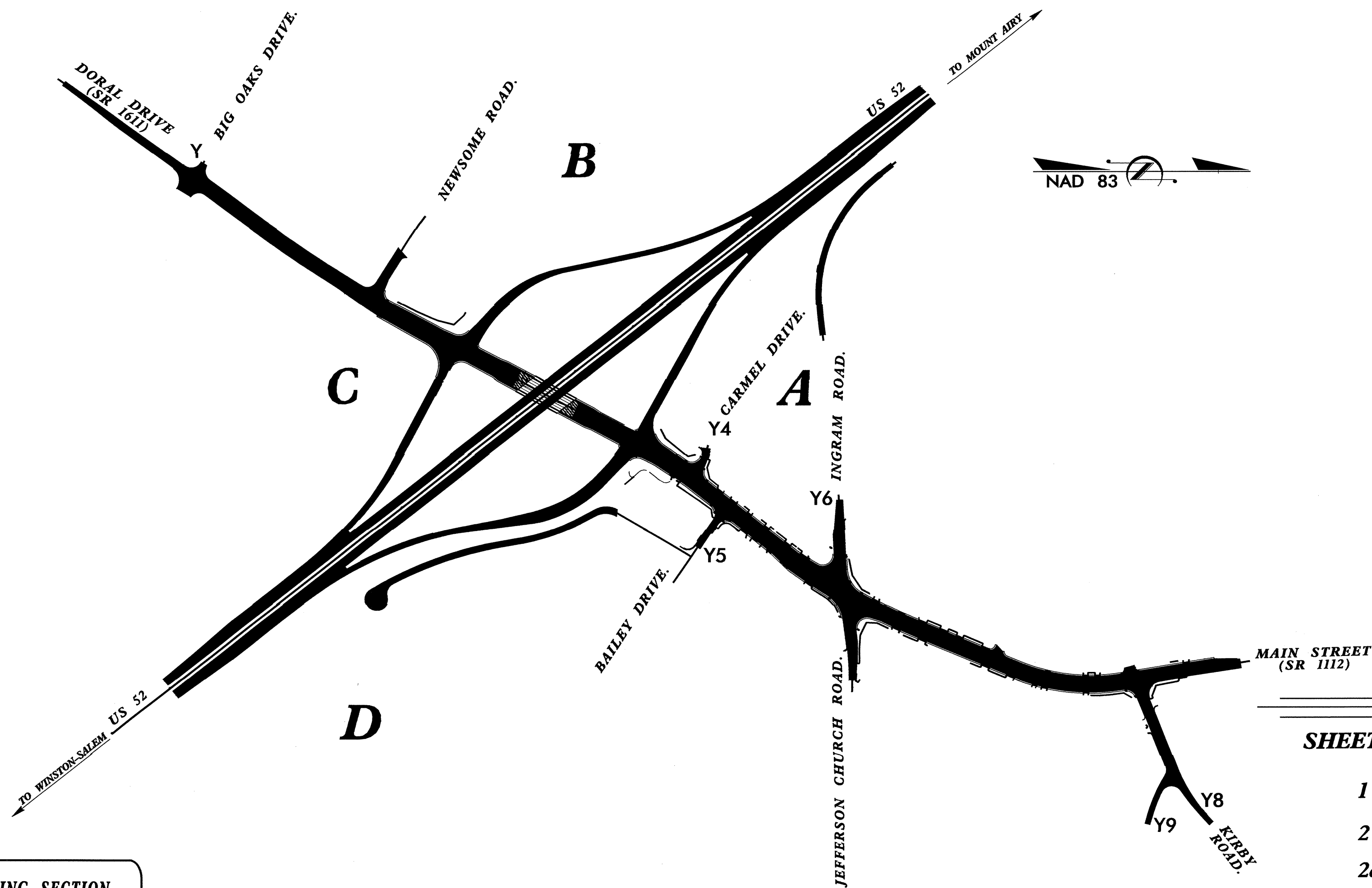


TIP NO. R-2201 SHEET NO. 1
APPROVED: *[Signature]*
DATE: 10/23/08



SIGNING PLANS
FORSYTH /STOKES COUNTY

LOCATION: SR 1611-SR 1112 TOBACCOVILLE ROAD FROM
RJR ENTRANCE IN FORSYTH COUNTY TO
SR 1115 (KIRBY ROAD) IN KING STOKES COUNTY



INDEX

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2a - 2d	SUPPORT INFORMATION
3	A SHEET
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5	E and F SHEET
6	SUPPORT CHART
7 - 15	SIGN ROADWAY SHEETS

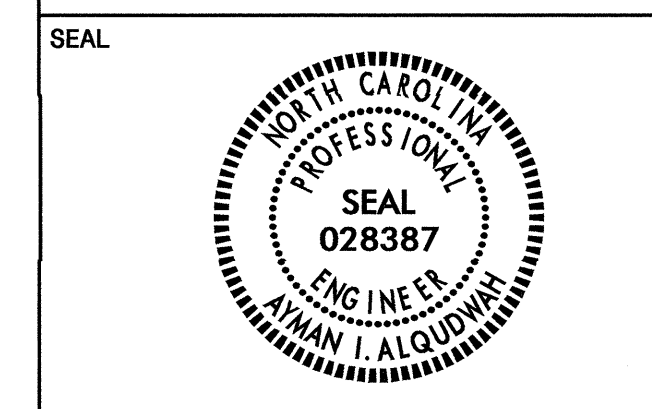
PLAN PREPARED BY: N.C.D.O.T. SIGNING SECTION

Ron King, PE SIGNING ENGINEER

Ayman Alqudwah, PE SIGNING PROJECT ENGINEER

Sam Coleman, EI SIGNING PROJECT DESIGN ENGINEER

William DeBrew SIGNING DESIGNER



NOTES:

- DESIGN CONFORMS WITH THE SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS - A.A.S.H.T.O.
- USE MATERIALS, FABRICATE AND ERECT SIGNS AND SUPPORTS THAT CONFORM TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- USE HIGH STRENGTH BOLTS, NUTS AND WASHERS THAT CONFORM TO A.S.T.M. A-325 AND THAT ARE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-153.
- USE BACKING PLATES, SLIP BASE PLATES, FRICTION PLATES, AND HINGE PLATES THAT CONFORM TO A.S.T.M. A-36 AND THAT ARE GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-123 PRIOR TO GALVANIZING, GRIND SMOOTH ANY METAL PROJECTION BEYOND THE PLATE FACE. KEEPER PLATES SHALL BE MANUFACTURED FROM 28 GAUGE SHEET STEEL THAT CONFORMS TO A.S.T.M. A-36 AND IS GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-123
- ASSEMBLE HINGE CONNECTIONS IN THE SHOP. SHOP TIGHTEN BOLTS BY USE OF EITHER A CALIBRATED POWER WRENCH OR A MANUAL TORQUE WRENCH. TIGHTEN EACH HINGE CONNECTION BOLT TO 1/3 PAST SNUG.
- BASE PLATES DETAILS ARE FOR INSTALLATIONS ON THE RIGHT SHOULDER AND IN GORE AREAS.
- ASSEMBLE UPPER SUPPORT TO STUB AS SHOWN IN DETAIL. SLIP BASE PLATES SHALL BE FILLET WELDED ONTO POSTS ALL AROUND THE STRUCTURAL SHAPE. ASSEMBLE IN EITHER SHOP OR FIELD. 28 GAUGE KEEPER PLATE IS PLACED BETWEEN SLIP BASE PLATES TO PREVENT BOLT SLIPPING. TIGHTEN BOLTS TO THE FOLLOWING PRESCRIBED TORQUE:

BOLT DIAMETER	TORQUE (N-M)
13	39
16	62
19	73
25	83

COMPLETELY ASSEMBLE B/A POSTS PRIOR TO ERECTION. B/A POST TO BE SET IN ONE PIECE. AFTER SUPPORT HAS BEEN ERECTED AND THE CONCRETE FOOTINGS HAS CURED AT LEAST 48 HRS., CLEAN CONCRETE FROM BASE CONNECTION BOLTS THEN LOOSEN AND RETIGHTEN EACH BOLT IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. DO NOT OVERTIGHTEN. BURR ALL BOLT THREADS OF BASE CONNECTIONS TO PREVENT LOOSENING.

- USE REINFORCED FOOTINGS WITH DIMENSIONS AS SHOWN IN PLANS. WHERE SOLID ROCK IS ENCOUNTERED, THE ENGINEER DIRECTS WHETHER TO PLACE THE FOOTING AT THE PRESCRIBED DEPTH OR EXTEND IT AT LEAST HALF A METER INTO THE ROCK. CONSTRUCT ALL FOOTINGS OF CLASS A CONCRETE.
- FORM TOP 152mm OF FOOTINGS. ENGINEER APPROVES THE METHOD USED.
- THE FINAL FLAT TURN OF SPIRAL OR HOOPS NO. 3 OR LARGER PLACED 76mm FROM TOP AND BOTTOM OF FOOTING MAY BE WELDED TO VERTICAL REINFORCING BARS. NO OTHER WELDING WILL BE PERMITTED.
- ELIMINATE HINGE CONNECTION FOR ALL SINGLE SUPPORT SIGNS.
- DETAIL IS FOR ONE DIRECTION BREAKAWAY. WHEN PLANS REQUIRE A TWO DIRECTION BREAKAWAY, TWO FRICTION PLATES SHALL BE USED IN LIEU OF ONE FRICTION PLATE AND ONE HINGE PLATE.
- SHAPE THE TOPS OF THE FOOTINGS TO CONFORM WITH FINISHED GROUND ELEVATIONS SUCH THAT WATER WILL NOT COLLECT AGAINST THE SUPPORTS.
- IF THE GROUNDWATER IS ENCOUNTERED AT AN DEPTH SHALLOWER THAN 2 METERS, THE SIGN FOUNDATION MUST BE REDESIGNED BASED UPON THE ACTUAL FIELD CONDITIONS. THE FOUNDATION DESIGN DOES NOT APPLY TO VERY SOFT OR LOOSE SOIL, MUCK, WEATHERED ROCK, OR HARD ROCK.

Note:
This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

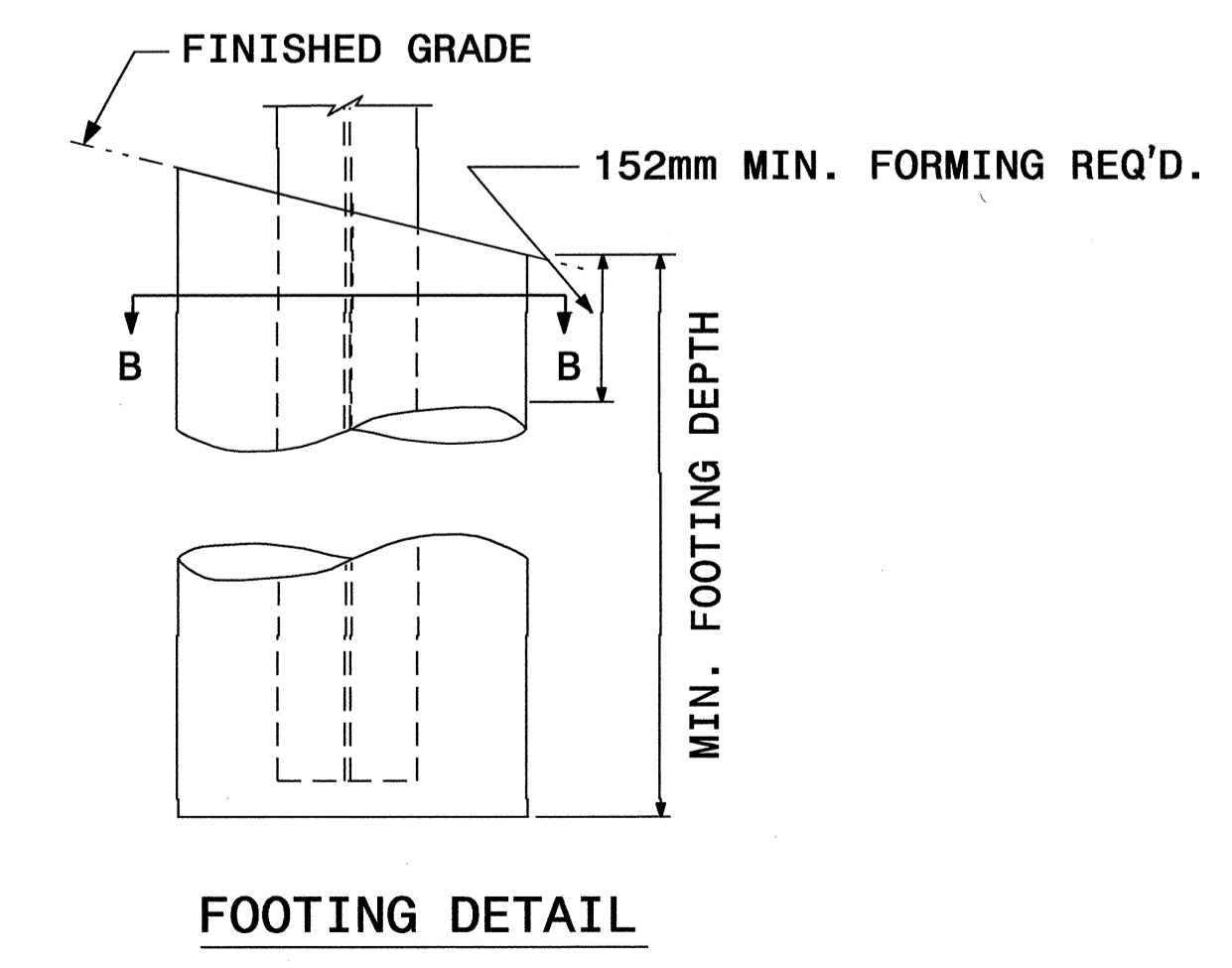
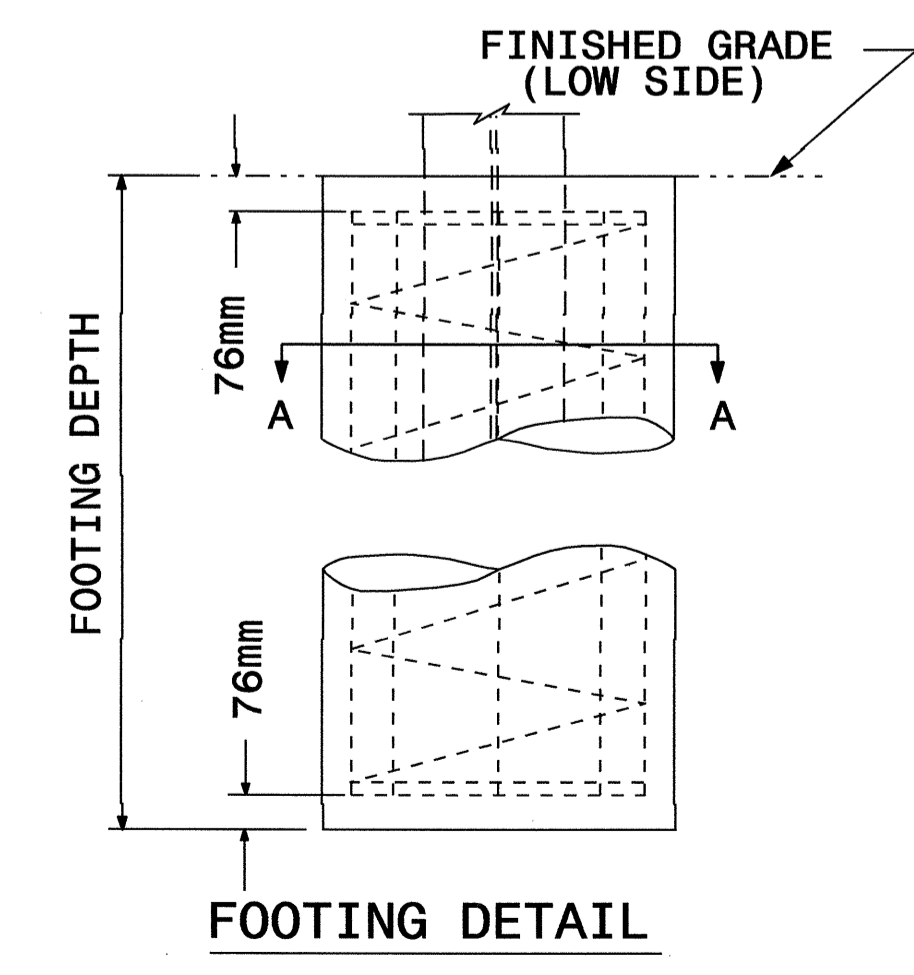
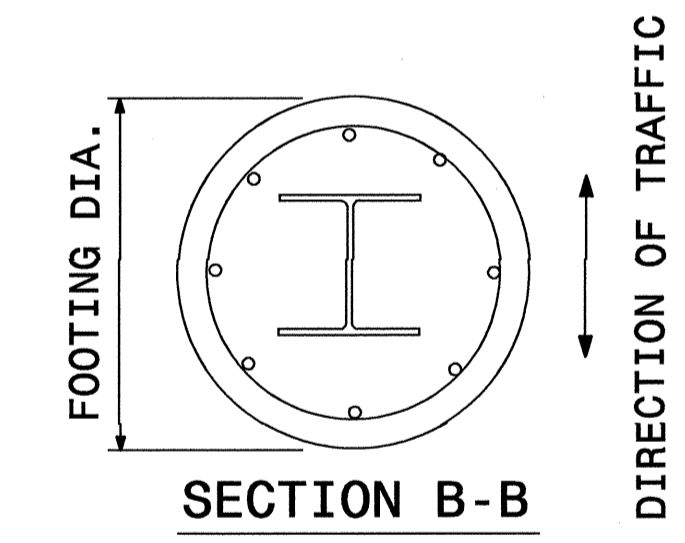
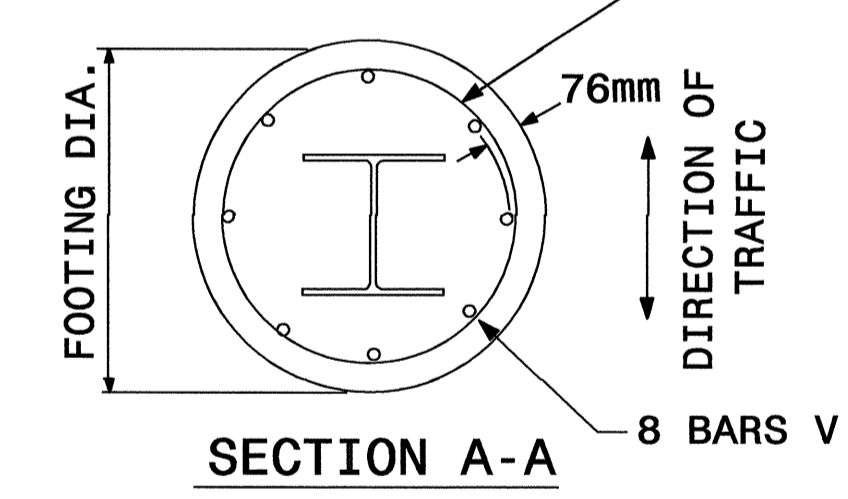
GROUND MOUNTED SIGN SUPPORTS



TIP NO. R-2201	SHEET NO. 2b
APPROVED: <i>[Signature]</i>	
DATE: 10/28/08	
SEAL	

BEAM SHAPE	BOLT SIZE	SLIP BASE PLATE DATA								KEEPER PLATE DATA								HINGE CONNECTION DATA								BREAK AWAY SUPPORT WEIGHT CONSTANT KGS.
		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	
S75X8.5	13 DIA. X 76	178	102	25	19	64	25	7	178	102	25	19	64	7	28 GAUGE	13 DIA. X 32	57	89	102	13	25	13	51	7	10	8
S100X11	13 DIA. X 76	203	102	25	19	64	25	7	203	102	25	19	64	7	28 GAUGE	13 DIA. X 32	67	89	102	13	25	13	51	7	10	9
W150X13	13 DIA. X 76	254	127	25	19	89	25	7	254	127	25	19	89	7	28 GAUGE	13 DIA. X 32	102	89	102	19	25	13	51	7	10	15
W150X18	16 DIA. X 95	279	127	32	22	83	32	9	279	127	32	22	83	9	28 GAUGE	16 DIA. X 57	102	102	114	19	29	16	57	9	10	18
W150X24	16 DIA. X 95	305	152	32	22	108	38	9	305	152	32	22	108	9	28 GAUGE	16 DIA. X 64	102	102	114	19	29	16	57	9	13	21
W200X27	16 DIA. X 108	343	165	32	22	121	38	9	343	165	32	22	121	9	28 GAUGE	16 DIA. X 64	133	102	114	25	29	16	57	9	13	32
W200X31	19 DIA. X 108	356	178	38	25	127	38	10	356	178	38	25	127	10	28 GAUGE	19 DIA. X 70	133	152	178	25	44	19	89	10	13	33
W250X33	19 DIA. X 108	406	203	38	25	152	38	10	406	203	38	25	152	10	28 GAUGE	19 DIA. X 70	146	152	178	25	44	19	89	10	13	54
W250X39	19 DIA. X 121	419	203	38	25	152	44	10	419	203	38	25	152	10	28 GAUGE	19 DIA. X 70	146	152	178	25	44	19	89	10	16	64
W300X39	19 DIA. X 121	470	229	38	25	178	44	10	470	229	38	25	178	10	28 GAUGE	19 DIA. X 70	165	152	178	25	44	19	89	10	16	80
W350X45	25 DIA. X 127	559	229	51	38	152	51	13	559	229	51	38	152	13	28 GAUGE	25 DIA. X 76	171	178	203	32	51	25	102	13	16	93
W400X46	25 DIA. X 127	610	229	51	38	152	51	13	610	229	51	38	152	13	28 GAUGE	25 DIA. X 83	140	178	203	32	51	25	102	13	19	101
W450X52	25 DIA. X 127	635	229	51	38	152	51	13	635	229	51	38	152	13	28 GAUGE	25 DIA. X 83	152	178	203	32	51	25	102	13	19	110
W450X60	25 DIA. X 140	660	229	51	38	152	57	13	660	229	51	38	152	13	28 GAUGE	25 DIA. X 95	152	178	203	32	51	25	102	13	22	126
W525X65	25 DIA. X 140	737	229	51	38	152	64	13	737	229	51	38	152	13	28 GAUGE	25 DIA. X 95	165	178	203	32	51	25	102	13	22	141

51mm FLAT TURNS
TOP AND BOTTOM
(SEE NOTE 11)



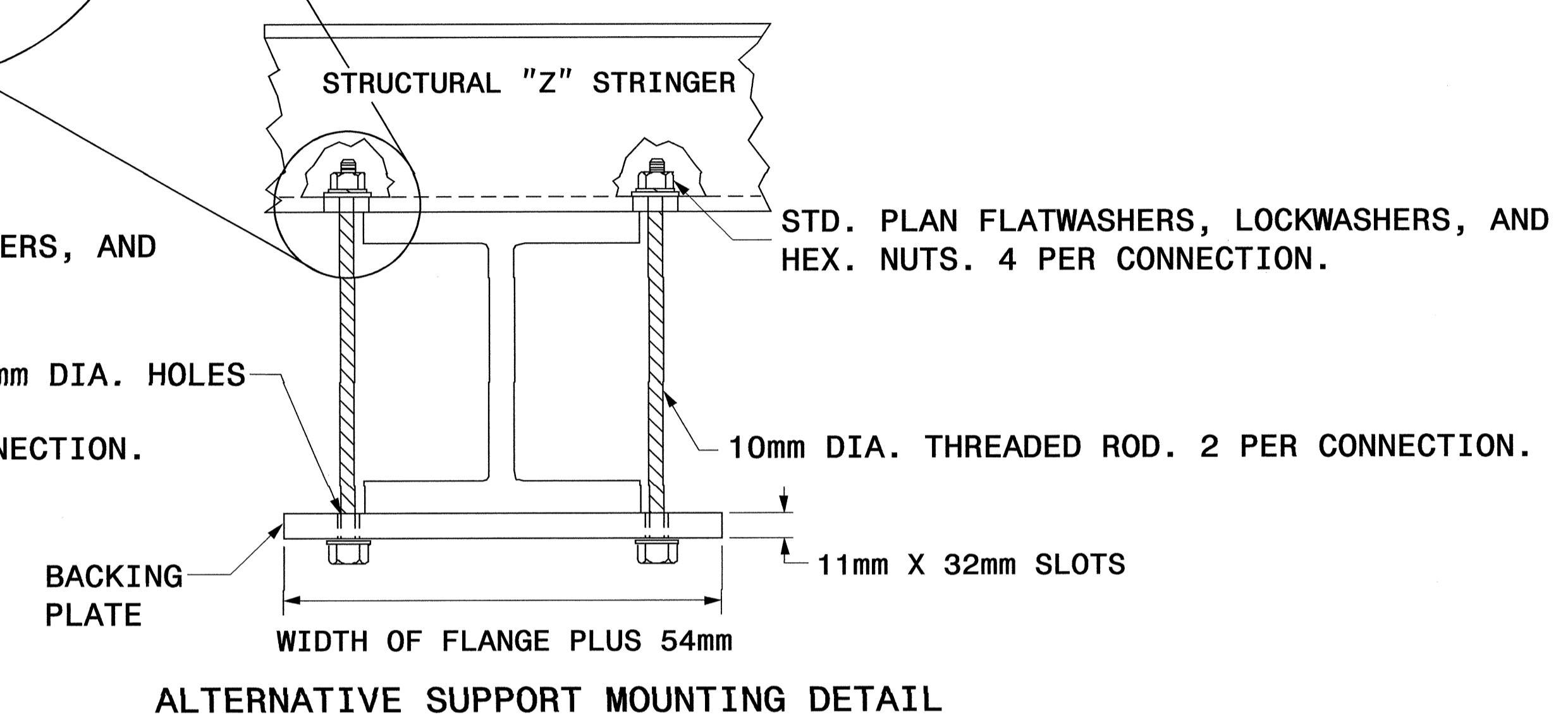
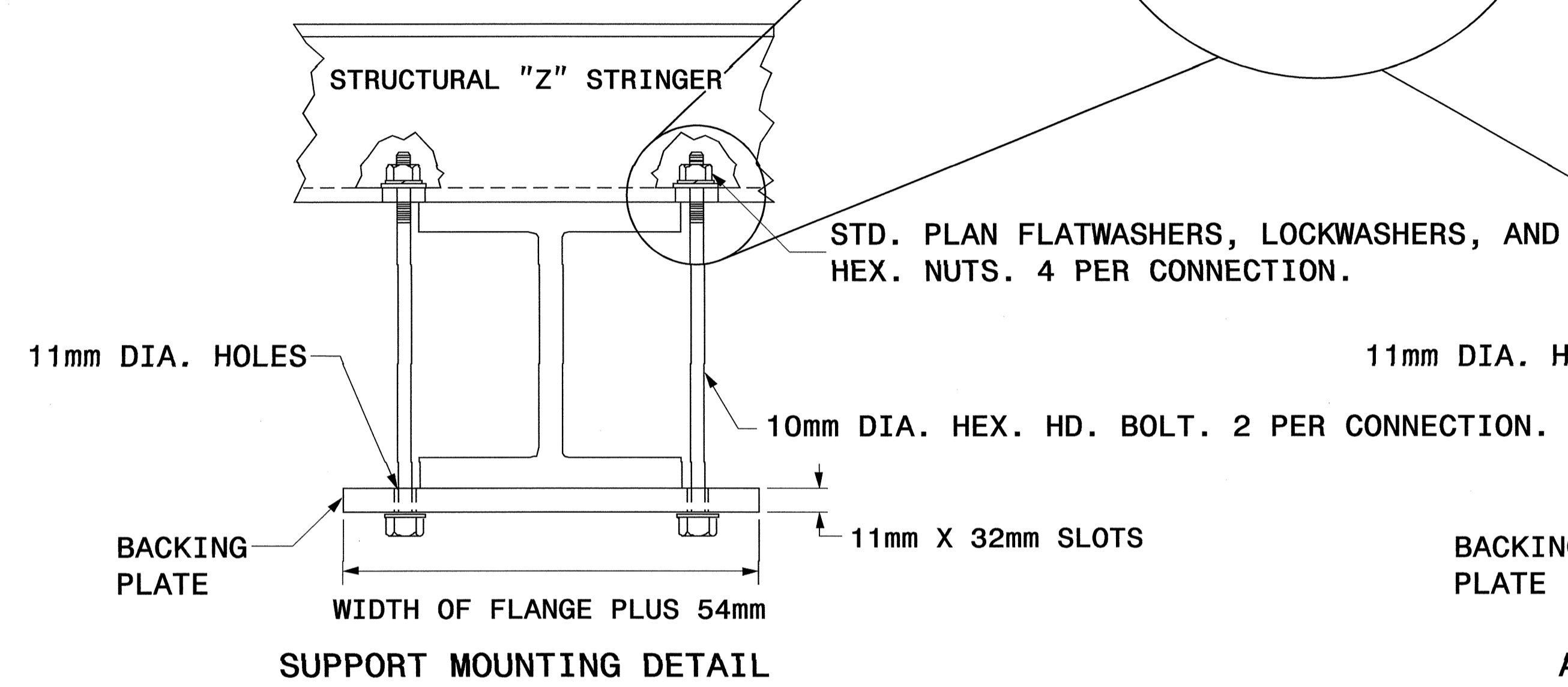
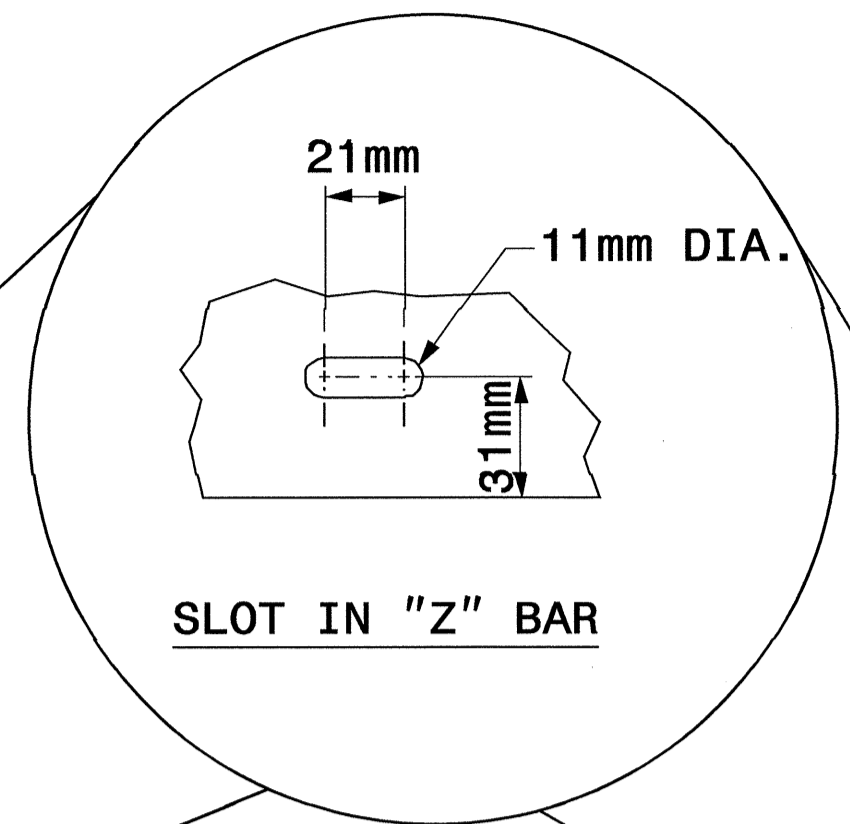
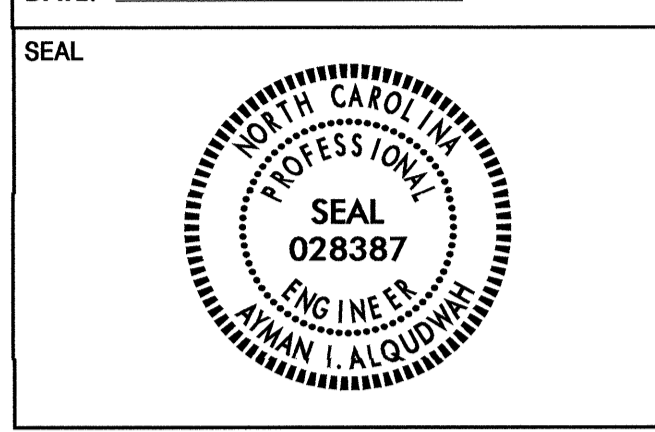
FOUNDATION DATA *		
FOOTING DIAMETER	REINFORCEMENT	SPIRAL BAR
305	8 # 4 BARS	#3 BAR, 76 PITCH
457	8 # 6 BARS	#3 BAR, 76 PITCH
610	8 # 7 BARS	#3 BAR, 76 PITCH
762	8 # 9 BARS	#3 BAR, 76 PITCH
914	8 # 11 BARS	#3 BAR, 76 PITCH
1067	8 # 12 BARS	#3 BAR, 76 PITCH
1219	8 # 14 BARS	#3 BAR, 76 PITCH

* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS
SEE SHEET 8 FOR NOTES

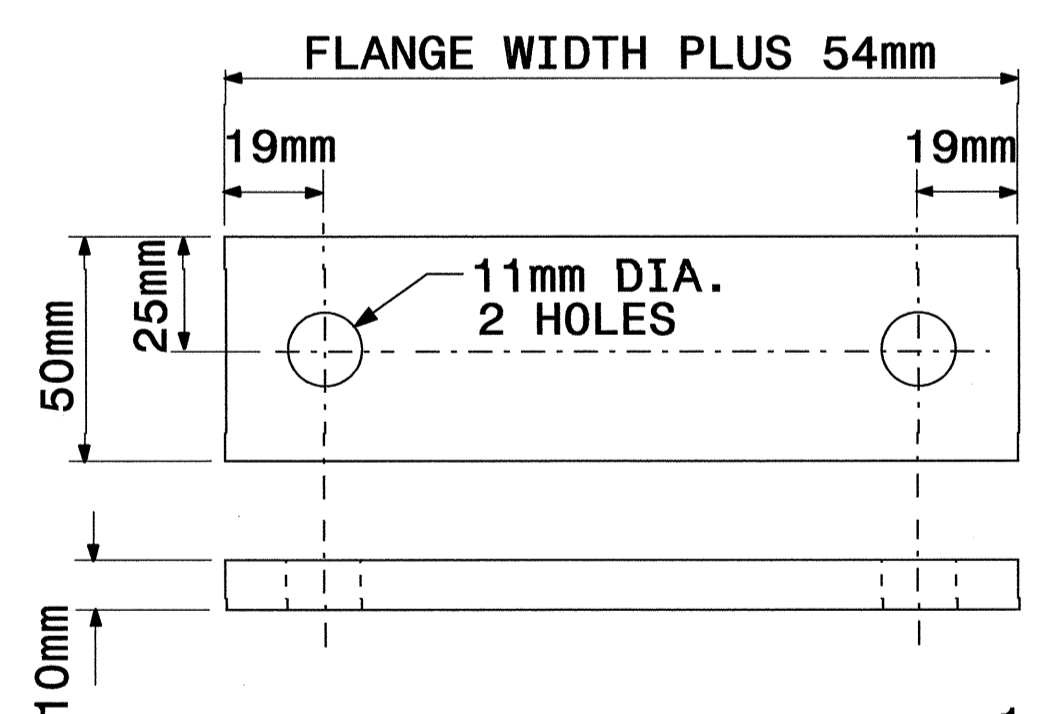
Note:
This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

GROUND MOUNTED SIGN SUPPORTS

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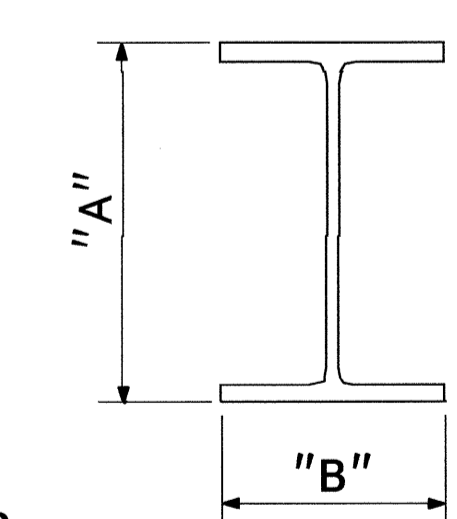


BACKING PLATE
DETAIL



SIGN SUPPORTS SECTION DIMENSIONS

SECTION	A	B
S75 X 8.5	76.2	60.3
S100 X 11	101.6	66.7
W150 X 13	152.4	101.6
W150 X 18	152.4	101.6
W150 X 24	158.8	101.6
W200 X 27	206.4	133.4
W200 X 31	209.6	133.4
W250 X 33	257.2	146.1
W250 X 39	263.5	146.1
W300 X 39	311.2	165.0
W350 X 45	352.4	171.5
W400 X 31	403.2	139.7
W450 X 52	450.9	152.4
W450 X 60	454.0	152.4
W525 X 65	523.9	165.1



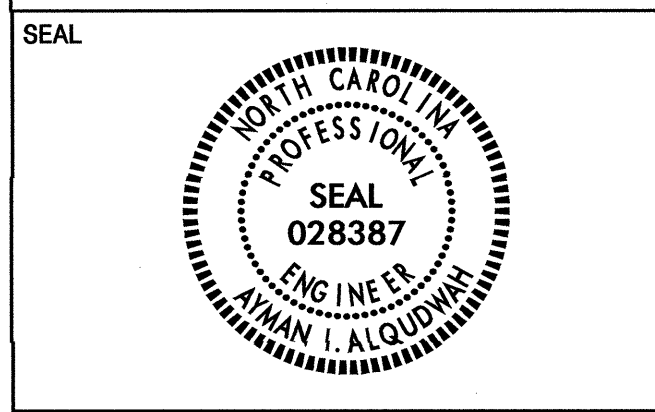
1. THE SUPPORT MOUNTING DETAIL SHOWS A "W" OR "S" BEAM. THIS DETAIL IS ALSO USED FOR MOUNTING SIGNS TO WOOD OR SQUARE TUBE SUPPORTS.
2. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS.
3. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR TYPE OF MATERIAL TO BE USED FOR SIGN HANGER ASSEMBLIES AND SUPPORTS.
4. USE GALVANIZED STEEL FOR MOUNTING BOLTS AND THREADED RODS IN COMPLIANCE WITH ASTM A307 AND ASTM A153.

Note:
 This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

SIGN MOUNTING DETAILS



TIP NO. R-2201	SHEET NO. 3
APPROVED: <i>John DeGard</i>	
DATE: 10/28/08	



SIGN NUMBER: 106, 107
 TYPE: A
 QUANTITY: 2
 SIGN WIDTH: 5600mm
 HEIGHT: 1700mm
 TOTAL AREA: 9.5 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 215mm
 NO. Z BARS: 2
 LENGTH: 5396.8

BACKG COLOR: Green
 COPY COLOR: White
 DESIGN BY: WMD
 PROJECT ID: R-2201
 CHECKED BY: DIV: 9
 DATE: Oct 23, 2008

SYMBOL	X	Y	WID	HT
ARMED	4660	490	490	772

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4
 1. Legend and border shall be direct applied Grade B sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 4. Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	1308
EM 2000	3920

FILENAME: r-2201_sgn_design
 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 105B
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 6500mm
 HEIGHT: 1600mm
 TOTAL AREA: 10.4 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 50mm
 RADII: 200mm
 NO. Z BARS: 2
 LENGTH: 6296.8

BACKG COLOR: Green
 COPY COLOR: White
 DESIGN BY: WMD
 PROJECT ID: R-2201
 CHECKED BY: DIV: 9
 DATE: Oct 28, 2008

SYMBOL	X	Y	WID	HT
ARMED				

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4
 1. Legend and border shall be direct applied Grade B sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 4. Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	5788
E 2000	1827

FILENAME: r-2201_sgn_design
 NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 201, 202
 TYPE: A
 QUANTITY: 2
 SIGN WIDTH: 2300mm
 HEIGHT: 1500mm
 TOTAL AREA: 3.5 Sq.m
 BORDER TYPE: FLUSH
 RECESS: 0mm
 WIDTH: 40mm
 RADII: 200mm
 NO. Z BARS: 2
 LENGTH: 2096.8

BACKG COLOR: Green
 COPY COLOR: White
 DESIGN BY: WMD
 PROJECT ID: R-2201
 CHECKED BY: DIV: 9
 DATE: Oct 22, 2008

SYMBOL	X	Y	WID	HT
ARMED	1675	150	469	739

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4
 1. Legend and border shall be direct applied Grade B sheeting.
 2. Background shall be Grade C reflective sheeting.
 3. Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 4. Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS


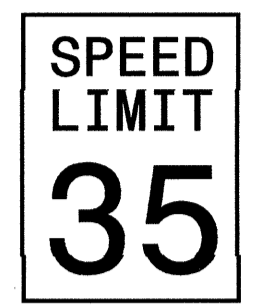
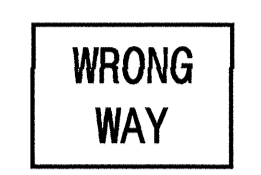
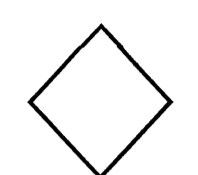
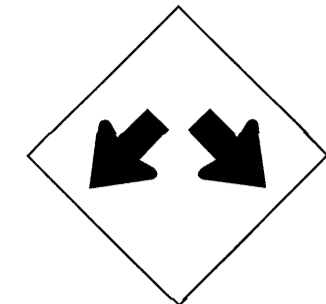
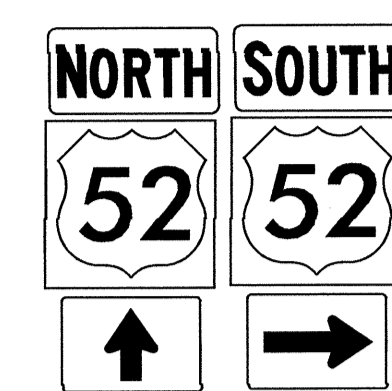
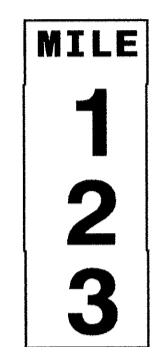
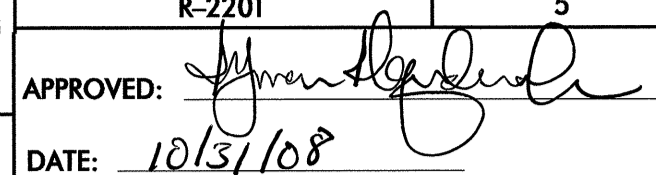

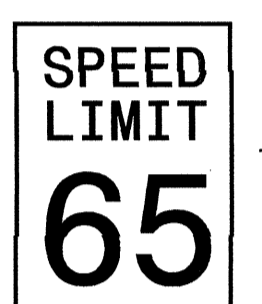

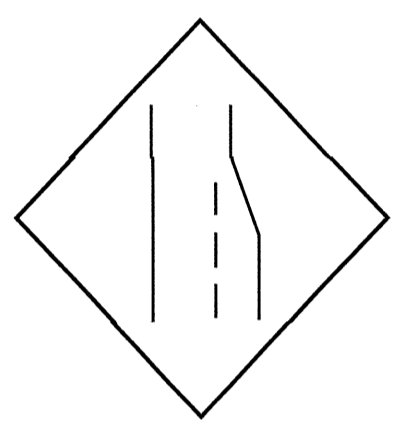


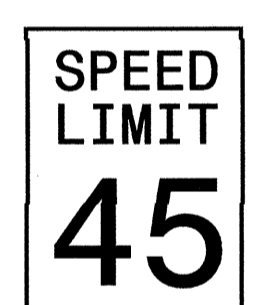




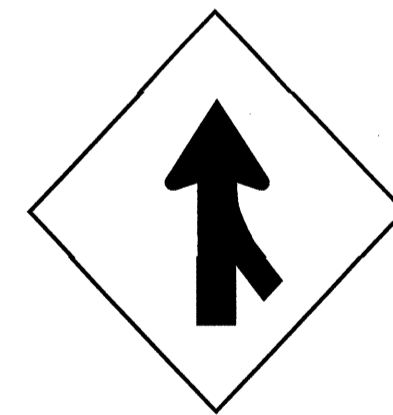

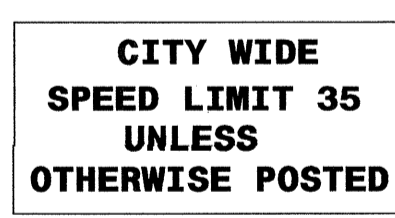
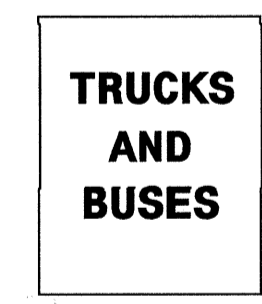
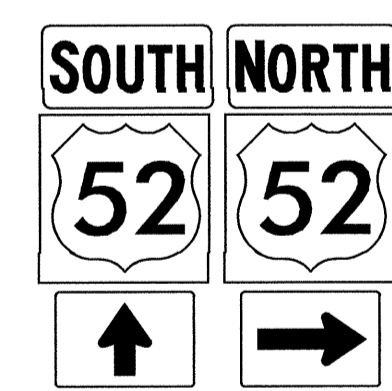
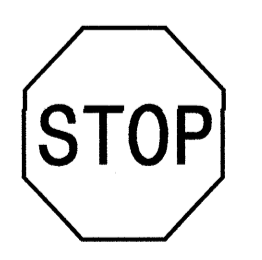
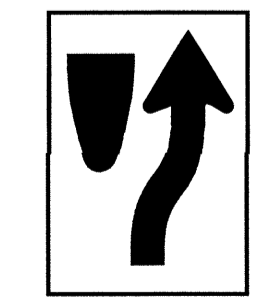
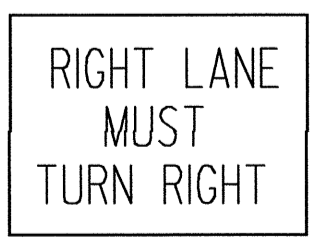
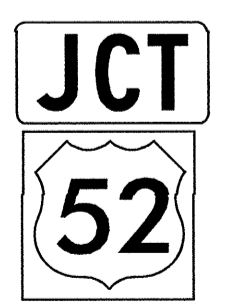

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	924
D 2000	950

FILENAME: R-2201_sgn_design
 NORTH CAROLINA D.O.T. SIGN DETAIL

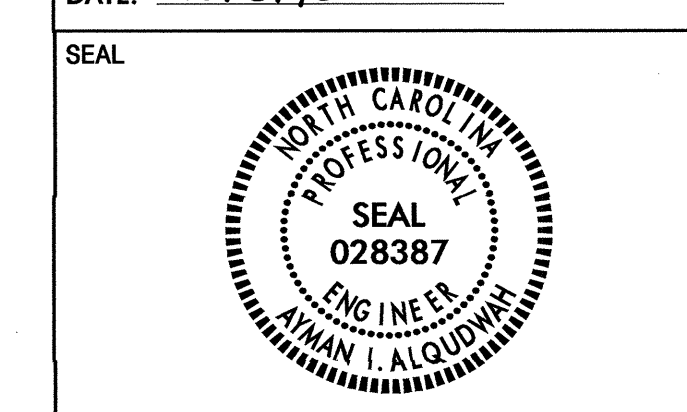
TYPE "A" SIGNS

28-OCT-2008 14:44
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							TIP NO. R-2201	SHEET NO. 5
<p>(401) QUANTITY REQ'D <u>7</u></p>  <p>900 X 1200 R2-1</p> <p>TWO "U" POSTS PER SIGN</p>	<p>(410) QUANTITY REQ'D <u>6</u></p>  <p>914 X 610 R5-1a</p> <p>ONE "U" POST PER SIGN</p>	<p>(417) QUANTITY REQ'D <u>8</u></p>  <p>457 X 457 W23-15</p> <p>MOUNT BELOW SIGN 416. IN <u>8</u> INSTALLATIONS</p>	<p>(456) QUANTITY REQ'D <u>3</u></p>  <p>750 X 750 W12-1</p> <p>ONE "U" POST PER SIGN</p>	<p>(502)</p>  <p>2-600mm x 300mm 2-600mm x 600mm 2-525mm x 375mm</p> <p>TWO "U" POST</p>	<p>QUANTITY REQ'D <u>2</u></p>  <p>300 X 1200</p>	<p>APPROVED: </p> <p>DATE: <u>10/31/08</u></p> <p>SEAL</p> 		
<p>(402) QUANTITY REQ'D <u>1</u></p>  <p>1200 X 1650 R2-1</p> <p>TWO "U" POSTS PER SIGN</p>	<p>(411) QUANTITY REQ'D <u>6</u></p>  <p>762 X 762 R5-1</p> <p>ONE "U" POST PER SIGN</p>	<p>(435) QUANTITY REQ'D <u>2</u></p>  <p>1219 X 1219 W19-10(R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>(457) QUANTITY REQ'D <u>5</u></p>  <p>600 X 600 R3-2</p> <p>MOUNT BELOW SIGN 408. IN <u>5</u> INSTALLATIONS</p>	<p>(503)</p>  <p>1-600mm x 300mm 1-600mm x 600mm 1-525mm x 375mm</p> <p>ONE "U" POST</p>				
<p>(403) QUANTITY REQ'D <u>1</u></p>  <p>900 X 1200 R2-1</p> <p>TWO "U" POSTS PER SIGN</p>	<p>(413) QUANTITY REQ'D <u>7</u></p>  <p>1372 X 457 R6-1 (R)</p> <p>MOUNT BEHIND SIGN 413 IN 1 INSTALLATION</p> <p>TWO "U" POSTS PER SIGN</p>	<p>(453) QUANTITY REQ'D <u>1</u></p>  <p>900 X 900 W3-5</p> <p>ONE "U" POST PER SIGN</p>	<p>(458) QUANTITY REQ'D <u>3</u></p>  <p>600 X 600 R3-4</p> <p>ONE "U" POSTS PER SIGN</p>	<p>(504)</p>  <p>1-600mm x 300mm 1-600mm x 600mm 1-525mm x 375mm</p> <p>ONE "U" POST</p>				
<p>(406) QUANTITY REQ'D <u>2</u></p>  <p>1219 X 1219 W4-1 (R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>(414) QUANTITY REQ'D <u>2</u></p>  <p>1372 X 457 R6-1 (L)</p> <p>MOUNT BEHIND SIGN 413 IN 2 INSTALLATIONS</p>	<p>(454) QUANTITY REQ'D <u>1</u></p>  <p>1524 X 914 R2-27</p> <p>MOUNT BELOW SIGN 302 IN 1 INSTALLATION</p>	<p>(459) QUANTITY REQ'D <u>3</u></p>  <p>600 X 450 W3-3</p> <p>MOUNT BELOW SIGN 458. IN <u>3</u> INSTALLATIONS</p>	<p>(505)</p>  <p>2-600mm x 300mm 2-600mm x 600mm 2-525mm x 375mm</p> <p>ONE "U" POST</p>				
<p>(408) QUANTITY REQ'D <u>12</u></p>  <p>762 X 762 R1-1</p> <p>ONE "U" POST PER SIGN</p>	<p>(416) QUANTITY REQ'D <u>8</u></p>  <p>610 X 762 R4-7</p> <p>TWO "U" POSTS PER SIGN</p>	<p>(455) QUANTITY REQ'D <u>1</u></p>  <p>762 X 762 R3-7</p> <p>ONE "U" POST PER SIGN</p>	<p>(501) (506)</p>  <p>1-525mm x 375mm 1-600mm x 600mm</p> <p>ONE "U" POST</p>	<p>(507)</p>  <p>1-600mm x 300mm 1-600mm x 600mm</p> <p>ONE "U" POST</p>		<p>NOTE: THIS DRAWING IS DIMENSIONED IN MILLIMETERS UNLESS OTHERWISE DEPICTED WITHIN THE DRAWING.</p> <p>TYPE "E", "F", & MILEMARKER SIGNS</p>		



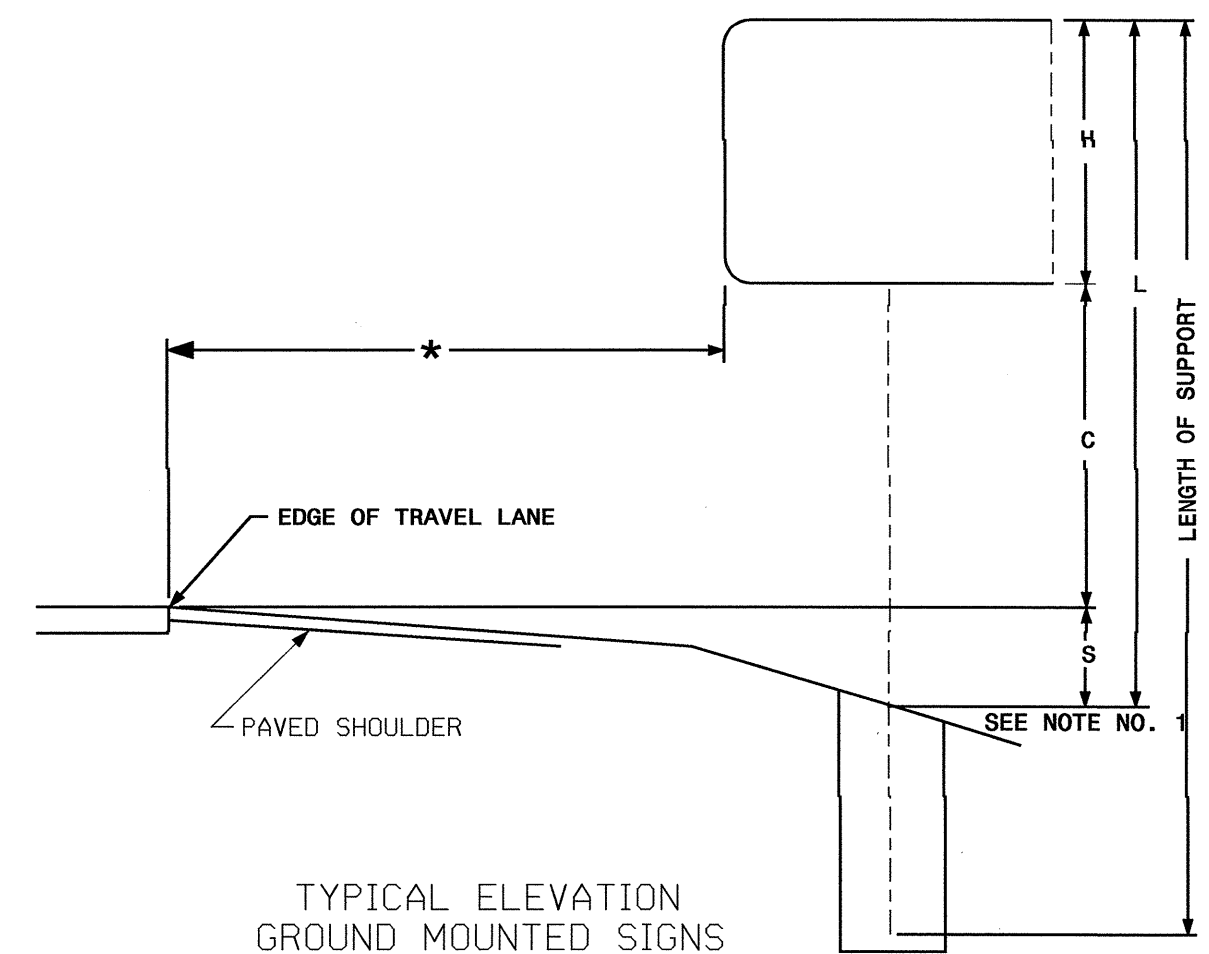
TIP NO. R-2201 SHEET NO. 6
 APPROVED: *[Signature]*
 DATE: 10/31/08



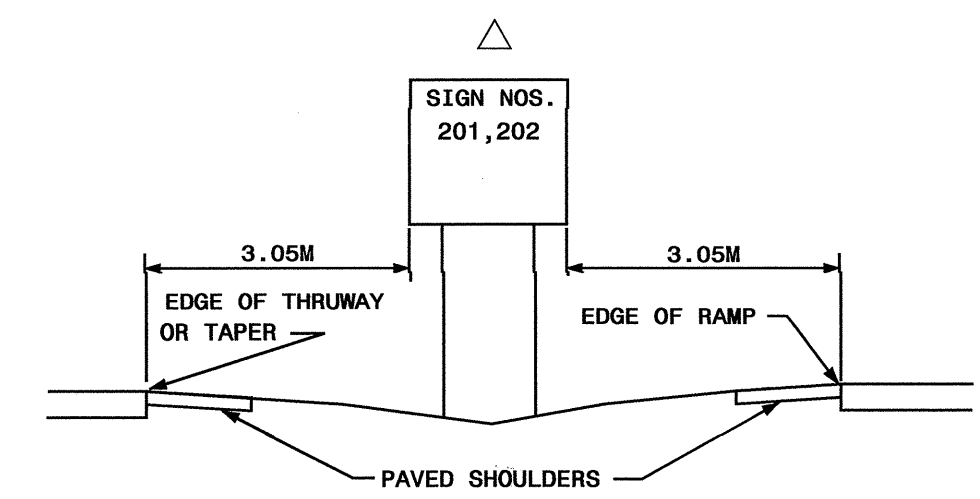
TYPE "A" GROUND MOUNTED SIGNS

SIGN NO.	SIGN TYPE	SIGN SIZE (mm)			ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE BA or S	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (m)	LENGTH (m)			LEFT SUPPORT (m)			CENTER SUPPORT (m)			RIGHT SUPPORT (m)			FOOTING DIAMETER (m)	FOOTING DEPTH (m)	B/A SUPPORT WEIGHTS (kg)	SIMPLE SUPPORT WEIGHTS (kg)	REINF. FTGS. (c.m.)	FIELD VERIFIED SEE NOTE 2 (mm/dd/yy)
		w	x	h								SNS HT	MTG HT	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH						
101	B	3100	X	1000	19+60 -L-	2	S3x5.7	BA	N/A	N/A	5.18	1.00	2.26	1.07	-0.05	3.21	4.28	0.00	0.00	0.00	-0.13	3.13	4.20	0.3048	1.2192	88.04	0.00	0.18	
102	B	3200	X	1000	21+60 -L-	2	S4x7.7	S	N/A	N/A	6.01	1.00	2.13	1.22	0.68	3.81	5.03	0.00	0.00	0.00	1.64	4.78	6.00	0.3048	1.3716	0.00	126.37	0.20	
103	B	3100	X	1000	22+80 -L-	2	S4x7.7	S	N/A	N/A	6.01	1.00	2.13	1.22	0.70	3.83	5.05	0.00	0.00	0.00	1.61	4.74	5.96	0.3048	1.3716	0.00	126.17	0.20	
104	B	3100	X	1000	24+20 -L-	2	S4x7.7	S	N/A	N/A	6.01	1.00	2.13	1.22	0.68	3.81	5.03	0.00	0.00	0.00	1.58	4.71	5.93	0.3048	1.3716	0.00	125.65	0.20	
105A	B	2600	X	800	17+00 -Y2-	3	W6x9	BA	1-R	N/A	6.01	1.60	2.13	1.52	0.66	4.39	5.92	0.86	4.59	6.12	1.05	4.78	6.31	0.4572	1.6764	288.62	0.00	0.83	
105B	A	6500	X	1600																									
106	A	5600	X	1700	10+80 -Y2-	3	W6x9	BA	N/A	N/A	6.01	1.70	2.13	1.37	0.70	4.53	5.91	1.03	4.86	6.24	0.96	4.79	6.17	0.4572	1.524	288.12	0.00	0.75	
107	A	5600	X	1700	22+40 -Y2-	3	W6x9	BA	N/A	N/A	6.01	1.70	2.13	1.37	0.70	4.53	5.91	1.03	4.86	6.24	0.96	4.79	6.17	0.4572	1.524	288.12	0.00	0.75	
201	A	2300	X	1500	20+40 -Y2-	2	S3x5.7	BA	N/A	N/A	△	1.50	2.13	1.07	0.19	3.82	4.89	0.00	0.00	0.00	0.29	3.92	4.99	0.3048	1.2192	99.93	0.00	0.18	
202	A	2300	X	1500	13+00 -Y2-	2	S3x5.7	BA	N/A	N/A	△	1.50	2.13	1.07	0.18	3.81	4.88	0.00	0.00	0.00	0.39	4.02	5.09	0.3048	1.2192	100.69	0.00	0.18	
901	A	2300	X	1800	3+20 -rampd	2	S4x7.7	BA	N/A	N/A	6.01	1.80	2.13	1.22	0.72	4.65	5.87	0.00	0.00	0.00	0.73	4.66	5.88	0.3048	1.3716	153.13	0.00	0.20	
902	A	2300	X	1800	3+80 -rampd	2	S4x7.7	S	N/A	N/A	6.01	1.80	2.13	1.37	0.88	4.81	6.19	0.00	0.00	0.00	1.55	5.48	6.86	0.3048	1.524	0.00	149.43	0.22	
903	A	2300	X	1800	4+20 -rampd	2	S4x7.7	S	N/A	N/A	6.01	1.80	2.13	1.37	1.05	4.98	6.36	0.00	0.00	0.00	1.58	5.51	6.89	0.3048	1.524	0.00	151.72	0.22	
904	A	2300	X	1800	3+20 -rampb	2	S4x7.7	BA	N/A	N/A	6.01	1.80	2.13	1.37	1.15	5.08	6.46	0.00	0.00	0.00	1.33	5.26	6.64	0.3048	1.524	168.42	0.00	0.22	
905	A	2300	X	1800	3+70 -rampb	2	S4x7.7	S	N/A	N/A	6.01	1.80	2.13	1.37	1.16	5.09	6.47	0.00	0.00	0.00	1.83	5.76	7.14	0.3048	1.524	0.00	155.85	0.22	
906	A	2300	X	1800	4+20 -rampb	2	S4x7.7	S	N/A	N/A	6.01	1.80	2.13	1.37	0.99	4.92	6.30	0.00	0.00	0.00	1.66	5.59	6.97	0.3048	1.524	0.00	151.95	0.22	

TOTAL	1475.08	TOTAL	987.14	TOTAL	4.77
USE:	1476	988	5		

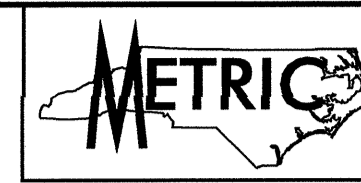


- NOTES
- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
 - FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T. 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.

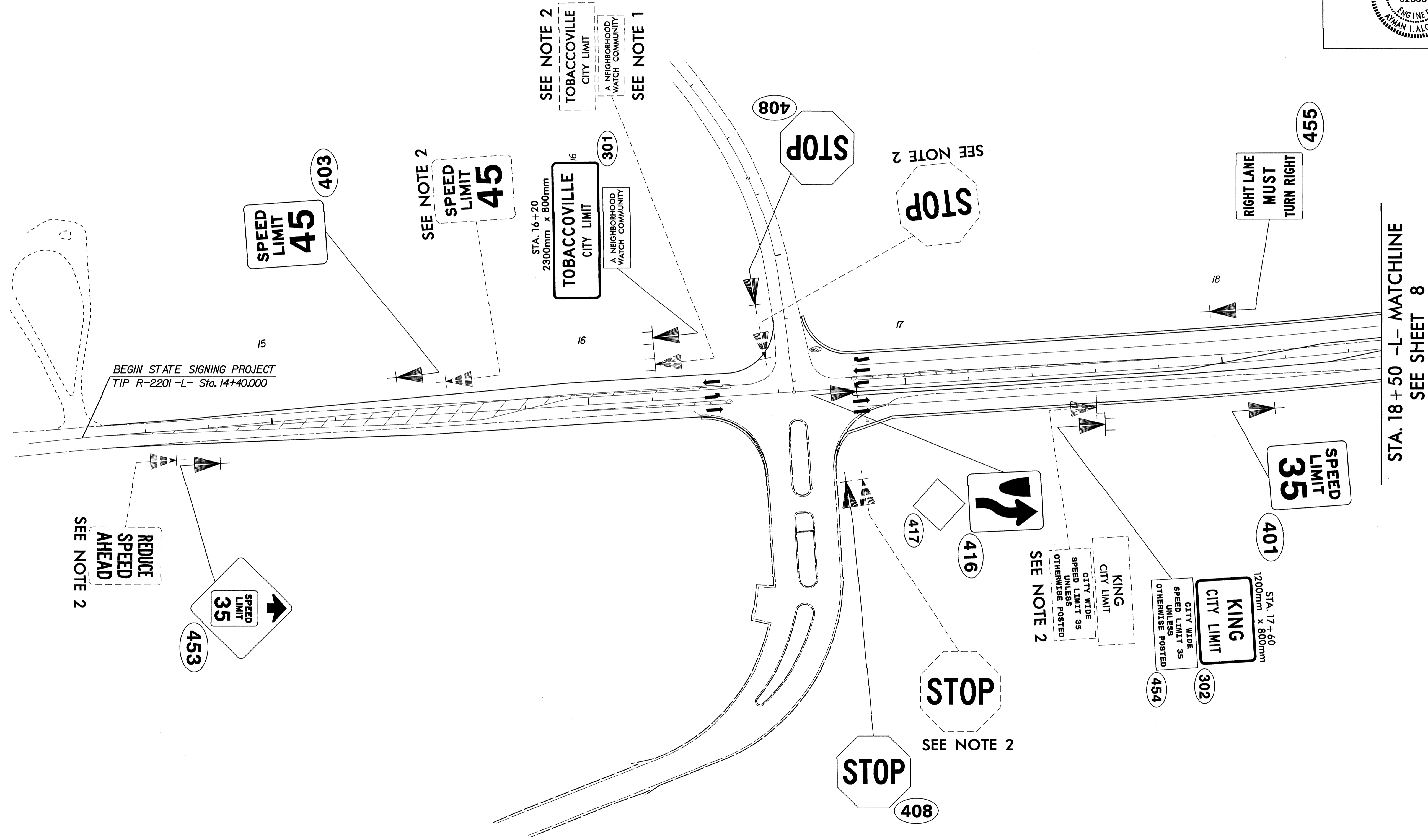


SUPPORTS

30-OCT-2008 16:50
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TIP NO. R-2201	SHEET NO. 7
APPROVED: <i>[Signature]</i>	
DATE: 10/28/08	
SEAL	

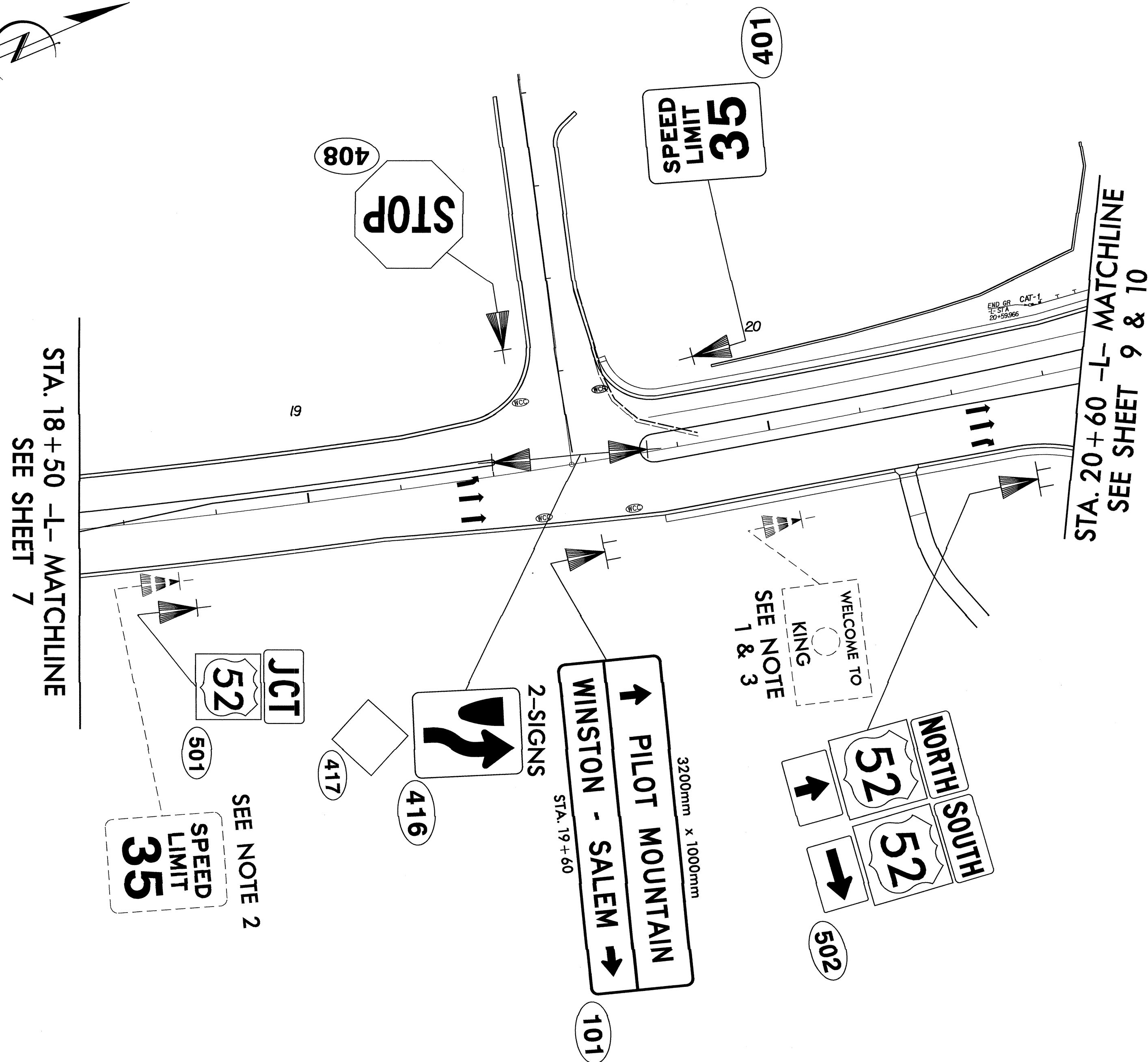
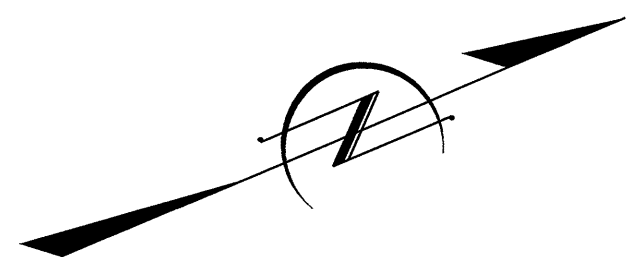


**EXISTING AND PROPOSED SIGNS
BEGIN STATE SIGNING PROJECT
TIP R-2201 STA. 14+40 TO STA. 18+50**

28-OCT-2008 14:26
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TIP NO. R-2201	SHEET NO. 8
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SEAL	

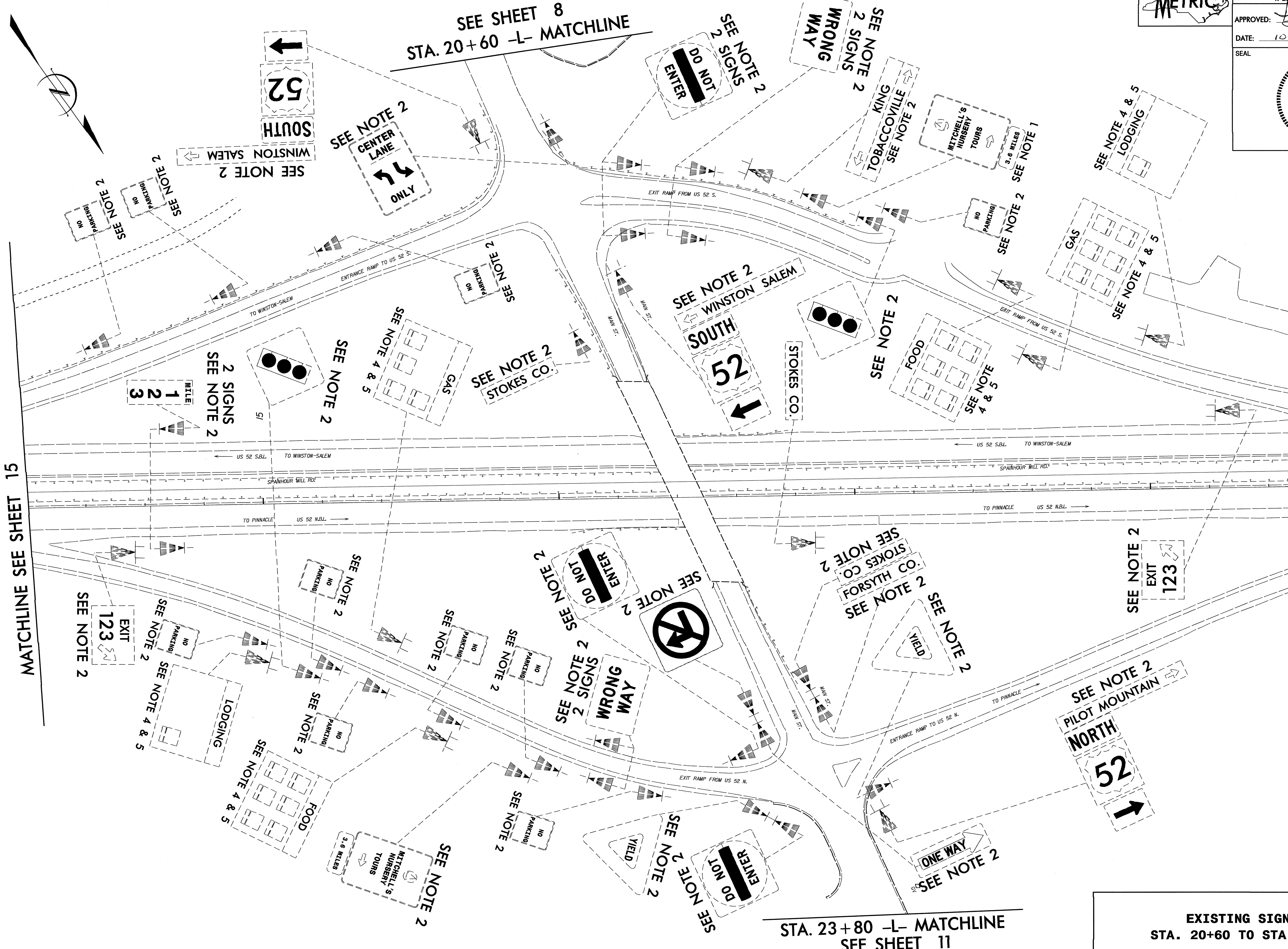


**EXISTING AND PROPOSED SIGNS
STA. 18+50 TO STA. 20+60**

30-OCT-2008 16:56
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TIP NO. R-2201	SHEET NO. 9
APPROVED: <i>[Signature]</i>	
DATE: 10/29/09	
SEAL	



SEE SHEET 8
STA. 20+60 -L- MATCHLINE

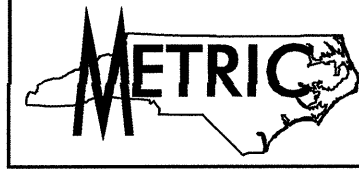
STA. 23+80 -L- MATCHLINE
SEE SHEET 11

MATCHLINE SEE SHEET 15

MATCHLINE SEE SHEET 16

EXISTING SIGNS
STA. 20+60 TO STA. 23+80

28-OCT-2008 14:33
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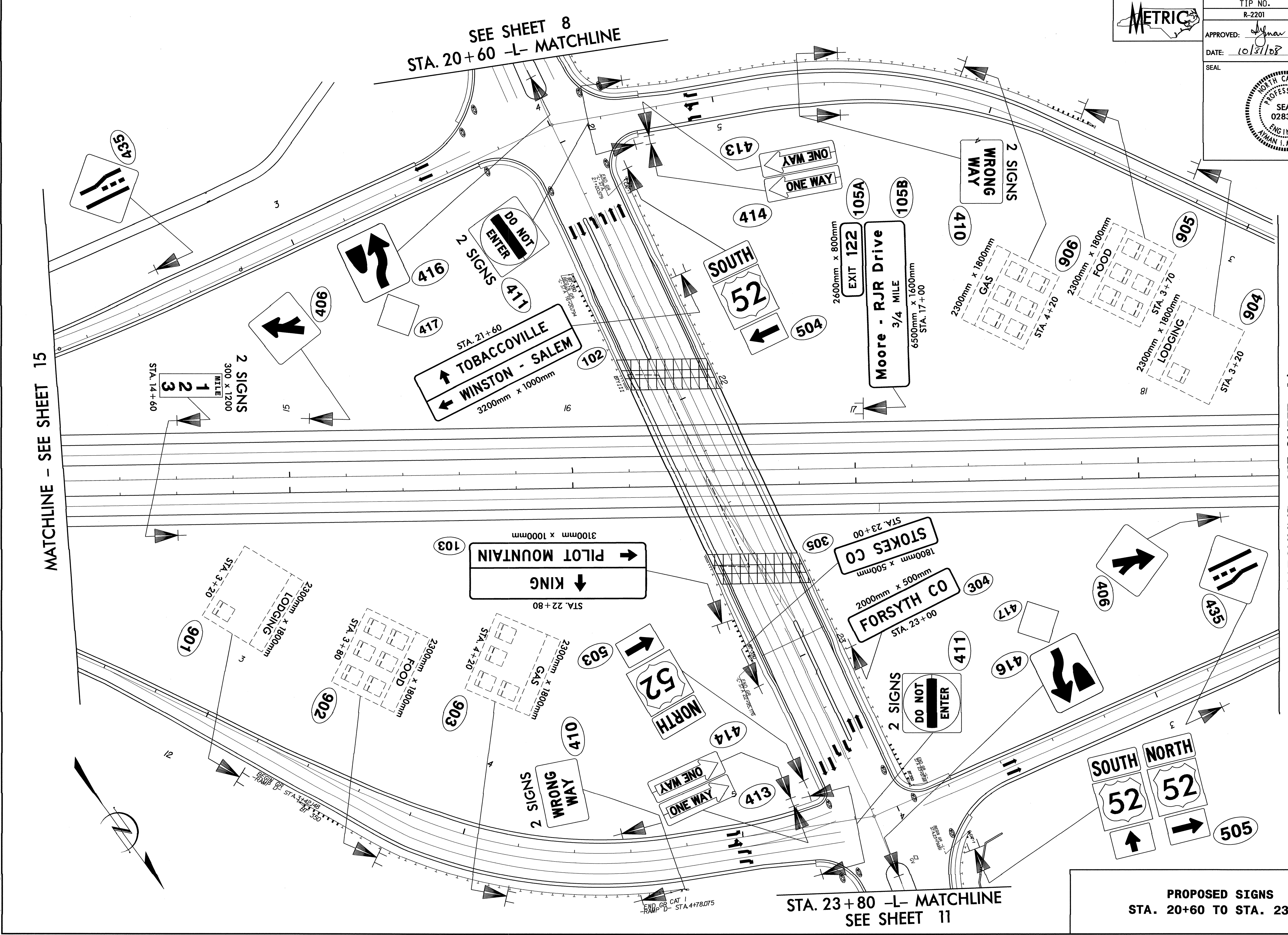
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DATE: 10/31/08	
SEAL	

MATCHLINE - SEE SHEET 15

MATCHLINE - SEE SHEET 16

SEE SHEET 8
STA. 20+60 -L- MATCHLINE

STA. 23+80 -L- MATCHLINE
SEE SHEET 11

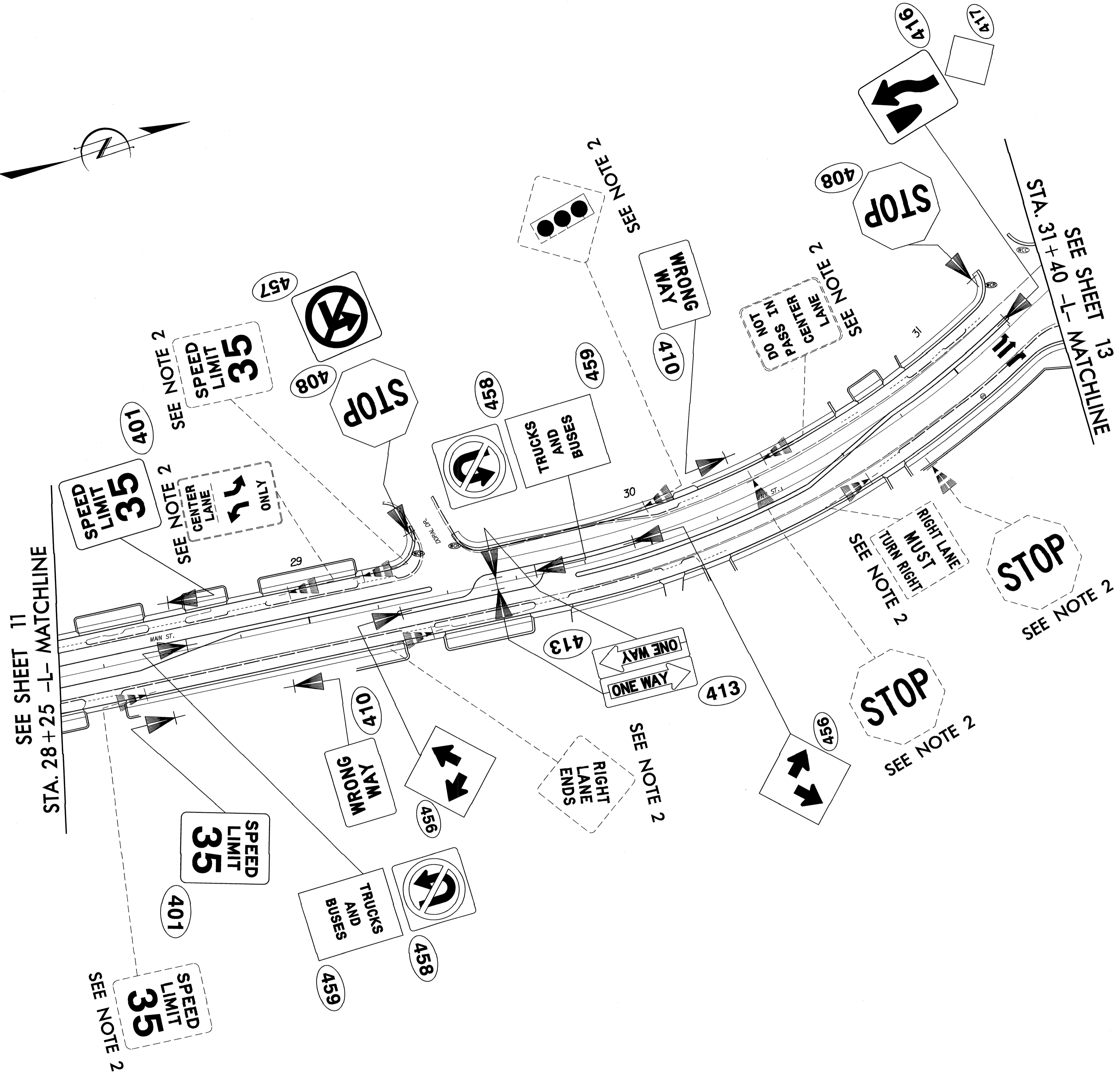
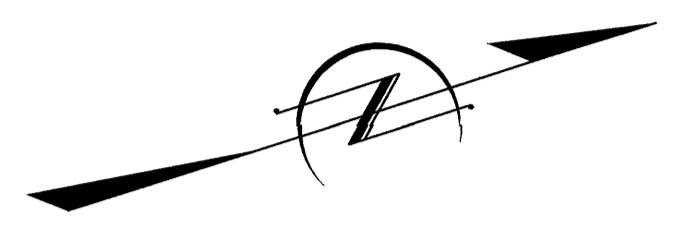


PROPOSED SIGNS
STA. 20+60 TO STA. 23+80

30-OCT-2008 16:54
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 User: jay...



TIP NO. R-2201	SHEET NO. 12
APPROVED: <i>[Signature]</i>	
DATE: 10/28/08	
SEAL	

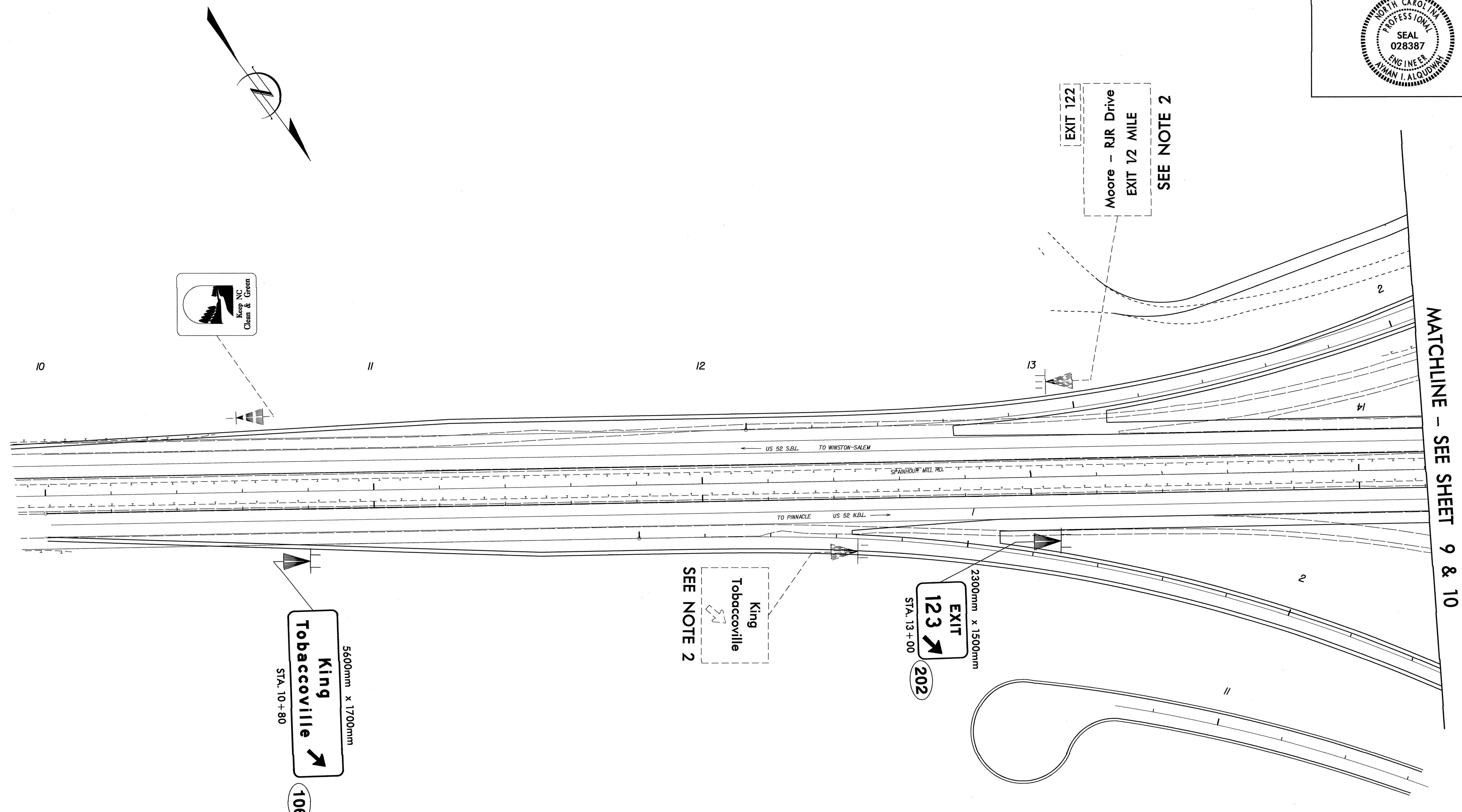


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 AT: 10/28/08 10:15 AM

**EXISTING AND PROPOSED SIGNS
 STA. 28+25 TO STA. 31+40**



TIP NO. R-2201	SHEET NO. 14
APPROVED: <i>[Signature]</i>	
DATE: 10/28/08	
SEAL	

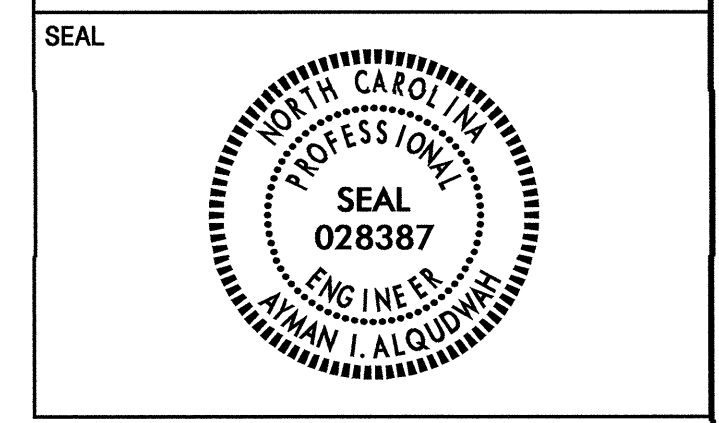


**PROPOSED SIGNS
STA. 10+00 TO STA. 14+20**

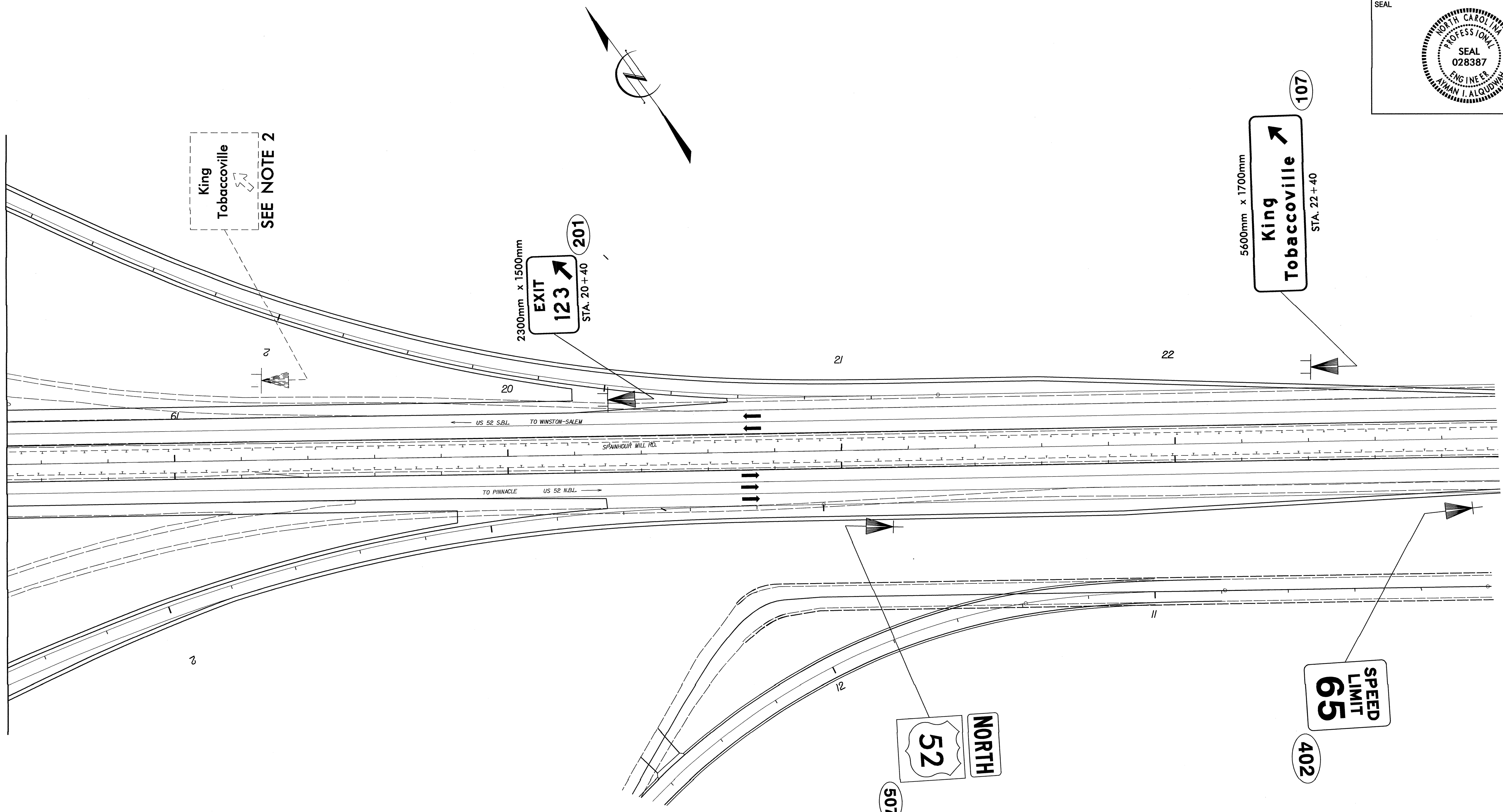
28-OCT-2008 14:37
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amabrew AT 10/22/08



TIP NO. R-2201	SHEET NO. 15
APPROVED: <i>[Signature]</i>	
DATE: 10/28/08	



MATCHLINE - SEE SHEET 9 & 10



King
Tobaccoville
SEE NOTE 2

2300mm x 1500mm
EXIT 123
STA. 20+40

201

5600mm x 1700mm
King Tobaccoville
STA. 22+40

107

52
NORTH

507

SPEED LIMIT 65

402

**PROPOSED SIGNS
STA. 18+40 TO STA. 23+00**

28 OCT 2008 14:59
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wmd/brev