

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

SIGNING PLANS
LEE COUNTY

LOCATION: US 421/NC 87(SANFORD BYPASS) FROM EAST
OF NC 87 NEAR SR 1138

TIP NO. R-2417C	SHEET NO. SIGN-1
APPROVED: _____	
DATE: _____	
SEAL	

CONTRACT: C202128 T.I.P.: R-2417C

SUMMARY OF QUANTITIES

ITEM NO.	DESC. NO.	SECT. NO.	ITEM DESCRIPTION	QUANTITY	UNIT
4048000000	902		REINFORCED CONCRETE SIGN FOUNDATION	8	C.Y.
4054000000	902		PLAIN CONCRETE SIGN FOUNDATION	3	C.Y.
4057000000	SP		OVERHEAD FOOTING	84	C.Y.
4060000000	903		SUPPORTS, BREAKAWAY STEEL BEAM	3533	LB.
4066000000	903		SUPPORTS, SIMPLE STEEL BEAM	3956	LB.
4072000000	903		SUPPORTS, 3 LB STEEL U-CHANNEL	2545	L.F.
4082100000	SP		SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "545+00"	1	L.S.
4082100000	SP		SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "595+40"	1	L.S.
4082100000	SP		SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "616+50"	1	L.S.
4082100000	SP		SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "632+00"	1	L.S.
4096000000	904		SIGN ERECTION, TYPE D	6	EA.
4102000000	904		SIGN ERECTION, TYPE E	45	EA.
4108000000	904		SIGN ERECTION, TYPE F	66	EA.
4110000000	904		SIGN ERECTION, TYPE A (GROUND MOUNTED)	13	EA.
4110000000	904		SIGN ERECTION, TYPE B (GROUND MOUNTED)	8	EA.
4115000000	904		SIGN ERECTION, OVERLAY (OVERHEAD)	2	EA.
4116000000	904		SIGN ERECTION, OVERLAY (GROUND MOUNTED)	3	EA.
4116200000	904		SIGN ERECTION, REPOSITION OVERHEAD	1	EA.
4152000000	907		DISPOSAL OF SIGN SYSTEM, STEEL BEAM	4	EA.
4192000000	907		DISPOSAL OF SUPPORT, U-CHANNEL	19	EA.
4234000000	907		DISPOSAL OF SIGN, A OR B (OVERHEAD)	12	EA.
4238000000	907		DISPOSAL OF SIGN, D, E OR F	12	EA.
S	SP		DISPOSAL OF SIGN SYSTEM ON SPAN WIRE	1	EA.

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.
- SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING OR PAVEMENT MARKINGS. SEE TRAFFIC CONTROL PLANS.
- 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.

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 JULY 2006 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
901.60	RIVET SPACING FOR OVERLAYED SIGNS
901.70	SIGN STRINGERS AND SUPPORT SPACING
901.80	SIGN MOUNTING DETAILS - FOR TYPE A AND TYPE B SIGNS
903.10	GROUND MOUNTED SIGN SUPPORTS
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.20	SECONDARY SIGN MOUNTING
904.30	SUPPLEMENTAL SIGN MOUNTING
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

PAY ITEM NOTES

- DISPOSAL OF SIGN, D, E OR F
- DISPOSAL OF SIGN SYSTEM, STEEL BEAM
- DISPOSAL OF SIGN SYSTEM, U-CHANNEL
- DISPOSAL OF SIGN, A OR B (OVERHEAD)
- SIGN ERECTION, REPOSITION OVERHEAD
- DISPOSAL OF SIGN SYSTEM ON SPAN WIRE

PROJECT NOTES

- A ALL PROPOSED A & B SIGNS TO REPLACE EXISTING SIGNS, SHALL BE PLACED 10 FEET BEHIND EXISTING SIGNS.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET, NOTES & SUMMARY OF QUANTITIES
SIGN-2	SUPPORT CHART
SIGN-3-6	SUPPORT INFORMATION
SIGN-7-17	OVERHEAD SHEETS
SIGN-18-30A	'A' & 'B' SIGN DESIGN SHEETS
SIGN-31-32	'D' SIGN DETAIL SHEETS
SIGN-33	OVERLAY SHEET
SIGN-34	'E' SHEETS
SIGN-35-36	'F' SHEETS
SIGN-37-55	SIGN DETAIL SHEETS

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

RON KING, P.E. STATE SIGNING & DELINEATION ENGINEER
WILLIAM DEBREW SIGNING & DELINEATION DESIGN ENGINEER

21-SEP-2009 15:47:14 2417C-Traffic Signing Layout Plans\Ttitlestdgn.mxd

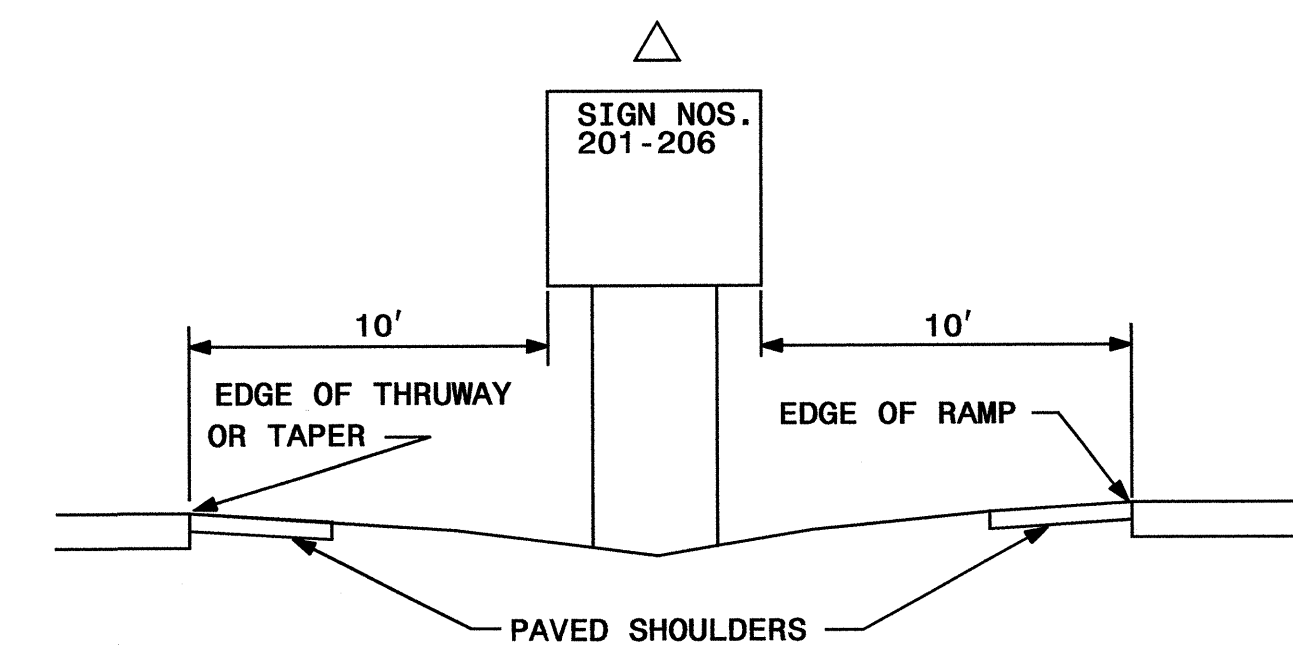
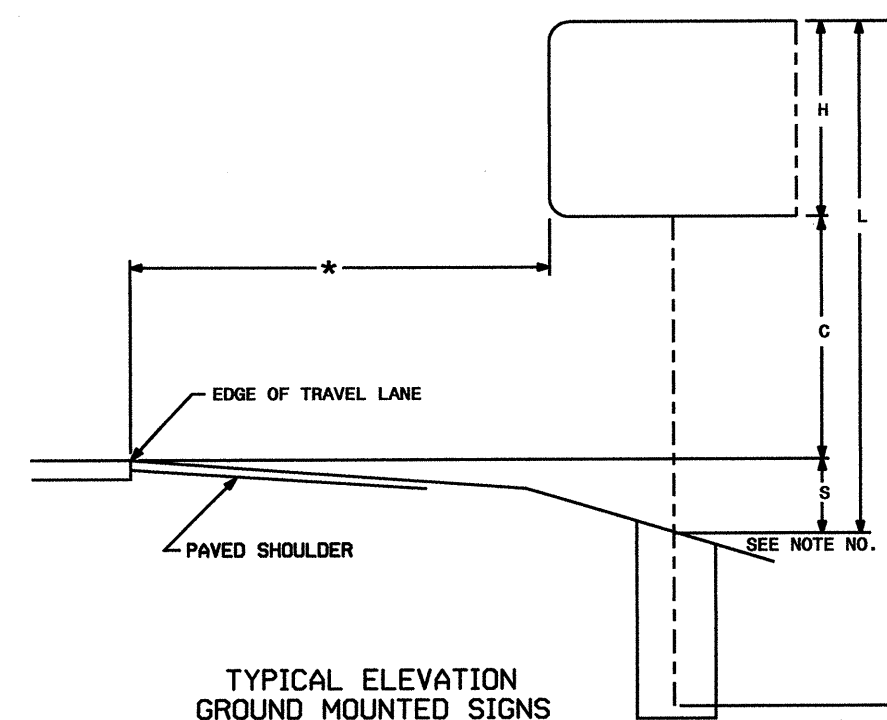
TIP NO. R-2417C	SHEET NO. SIGN-2
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NO.	SIGN TYPE	SIGN SIZE (ln. h)		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								SNS HT H	MTG HT C	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH								
101A	B	108	X30	570+00	2	W8x18	S	1-R	N/A	6.00	11.00	7.00	6.5	-0.61	17.39	23.89	0.00	0.00	0.00	2.45	20.45	26.95	2	7	0.00	915.00	1.63	0.00		
101B	A	216	X132											SNS HT H	MTG HT C	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH					
102	B	108	X48	30+00	2	S4x7.7	BA	N/A	N/A	30.00	4.00	7.00	4	2.13	13.13	17.13	0.00	0.00	0.00	0.25	11.25	15.25	1	4.5	289.93	0.00	0.00	0.26		
103	B	108	X48	34+00	2	S3x5.7	BA	N/A	N/A	30.00	4.00	7.00	3.5	0.99	11.99	15.49	0.00	0.00	0.00	0.32	11.32	14.82	1	4	208.30	0.00	0.00	0.23		
104A	B	120	X31.2	657+00	2	W8x18	BA	1-R	N/A	30.00	12.50	7.00	6.5	2.95	22.45	28.95	0.00	0.00	0.00	1.17	20.67	27.17	2	7	1172.28	0.00	1.63	0.00		
104B	A	156	X150											SNS HT H	MTG HT C	EMBED-MENT	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH	S	L	TOTAL LENGTH					
105	A	180	X150	689+70	2	W8x21	S	N/A	N/A	30.00	12.50	7.00	6.5	6.52	26.02	32.52	0.00	0.00	0.00	3.46	22.96	29.46	2	7	0.00	1301.58	1.63	0.00		
106	A	150	X168	689+50	3	W8x18	S	N/A	N/A	30.00	14.00	7.00	6	6.20	27.20	33.20	5.65	26.65	32.65	3.74	24.74	30.74	2	6.5	0.00	1738.62	2.27	0.00		
110	B	102	X48	24+00	2	S3x5.7	BA	N/A	N/A	30.00	4.00	7.00	3.5	0.91	11.91	15.41	0.00	0.00	0.00	0.78	11.78	15.28	1	4	210.47	0.00	0.00	0.23		
111	B	108	X42		2	S3x5.7	BA	N/A	N/A	30.00	3.50	7.54	3.5	-0.54	10.50	14.00	0.00	0.00	0.00	-0.37	10.67	14.17	1	4	196.12	0.00	0.00	0.23		
201	A	90	X60	550+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	90	X60	559+00	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	108	X60	602+00	2	S4x7.7	BA	N/A	N/A	10.00	5.00	7.00	4	0.50	12.50	16.50	0.00	0.00	0.00	0.50	12.50	16.50	1	4.5	294.71	0.00	0.00	0.26		
204	A	108	X60	619+53	2	S4x7.7	BA	N/A	N/A	10.00	5.00	7.00	4	0.50	12.50	16.50	0.00	0.00	0.00	0.50	12.50	16.50	1	4.5	294.71	0.00	0.00	0.26		
205	A	90	X60	627+00	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		
206	A	60	X60	681+50	2	S3x5.7	BA	N/A	N/A	10.00	5.00	7.00	3	0.50	12.50	15.50	0.00	0.00	0.00	0.50	12.50	15.50	1	3.5	212.23	0.00	0.00	0.20		

TOTAL	3532.56	TOTAL	3955.20	TOTAL	7.16	TOTAL	2.39
USE:	3533	USE:	3956	USE:	8	USE:	3

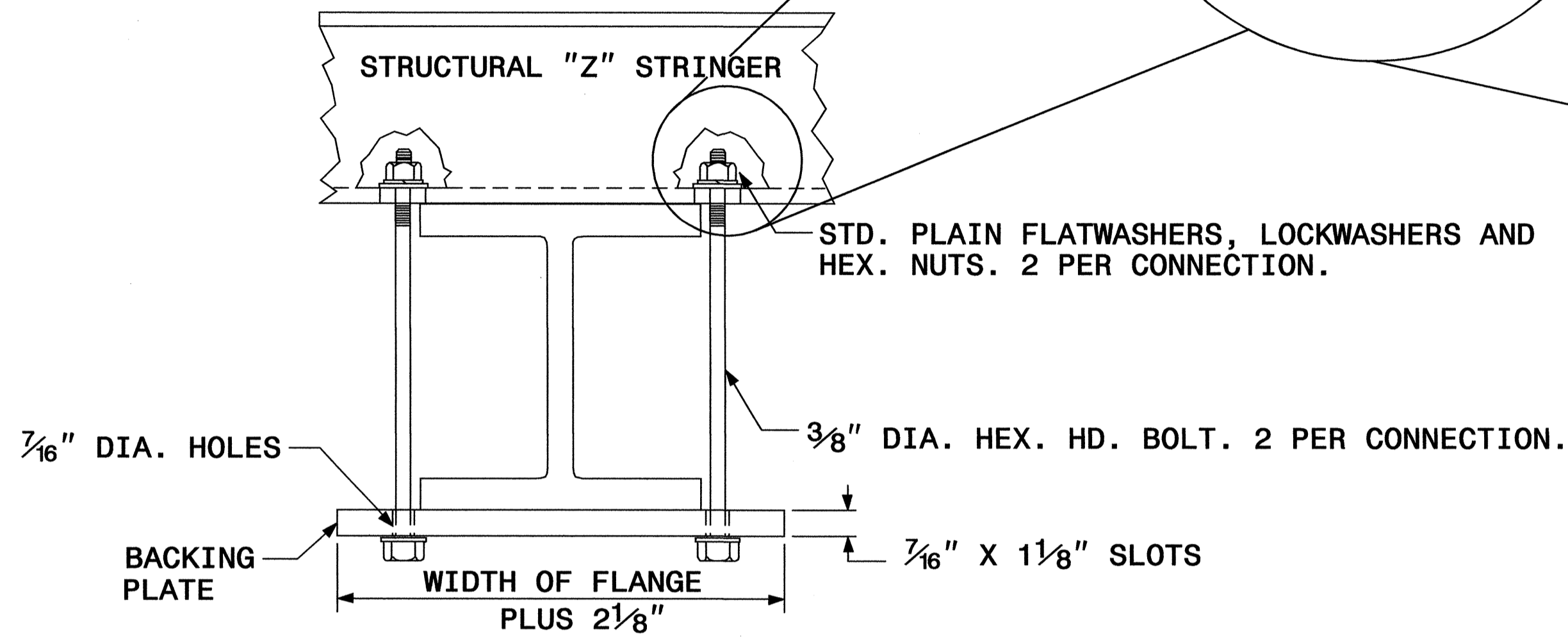
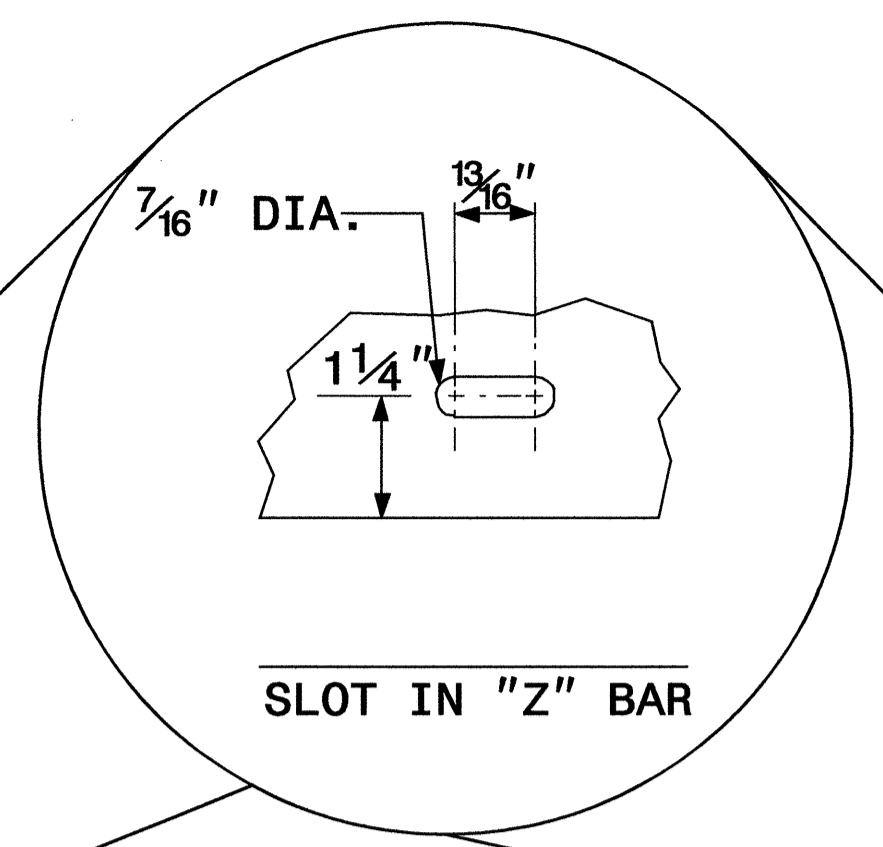
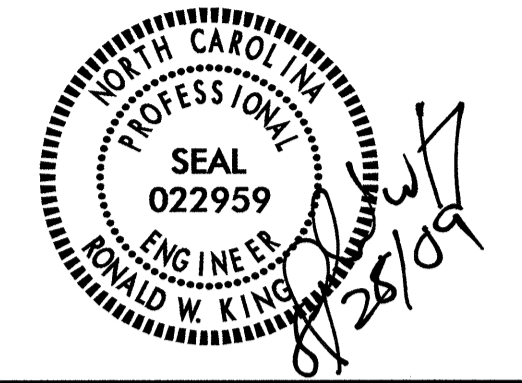
NOTES

- 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.

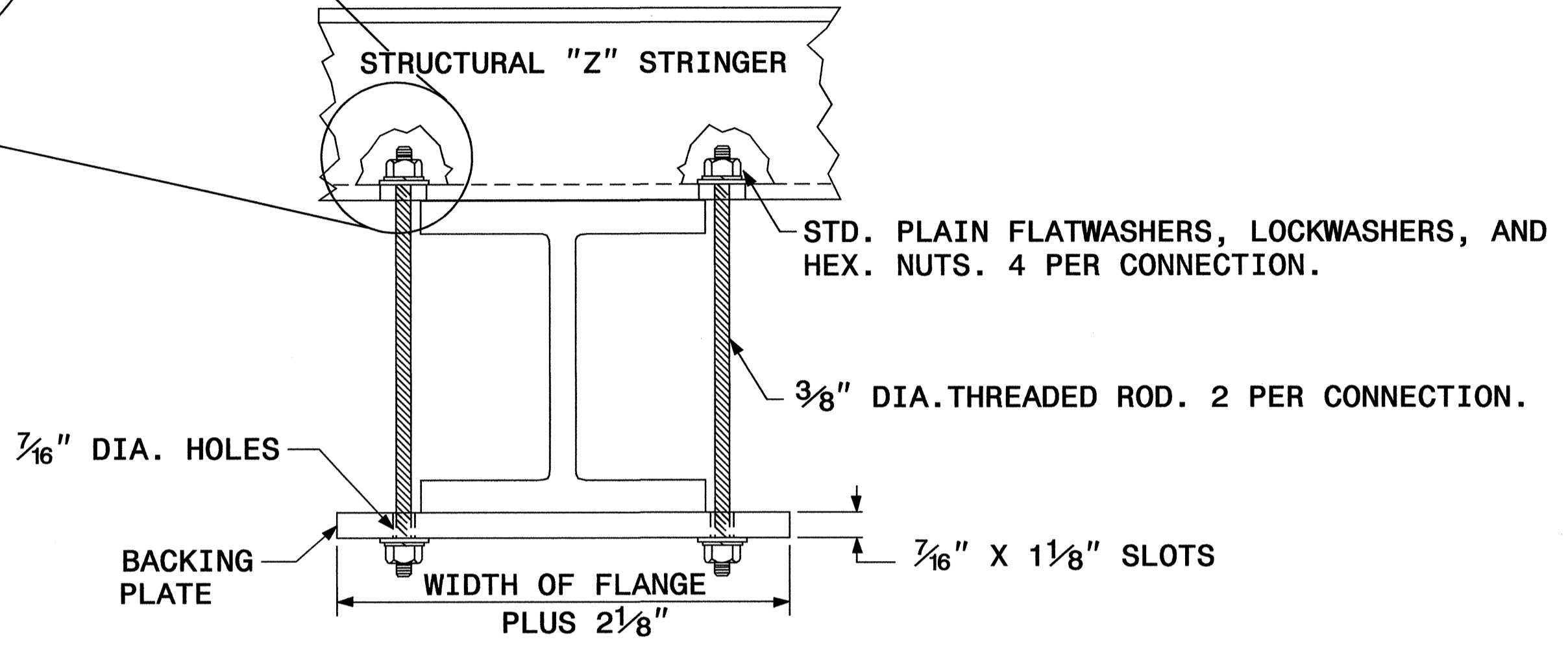


SUPPORT INFORMATION

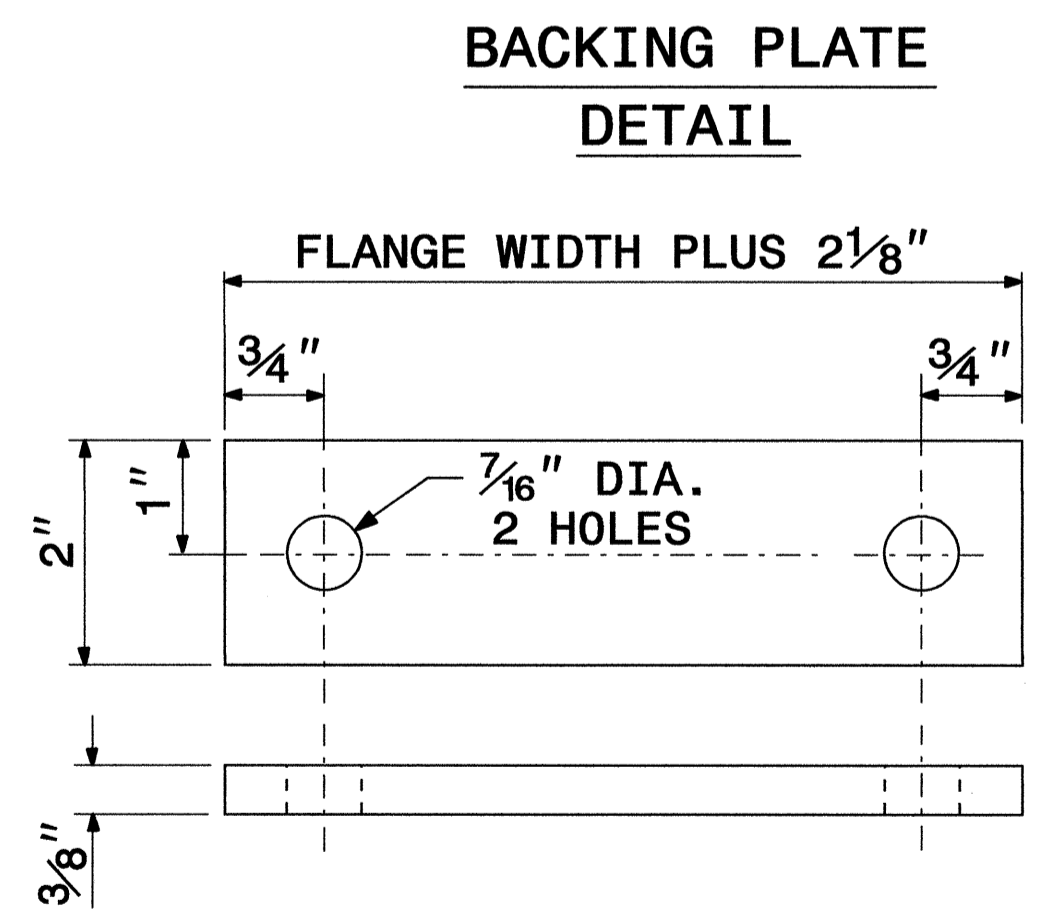
18-AUG-2009 13:34
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SUPPORT MOUNTING DETAIL

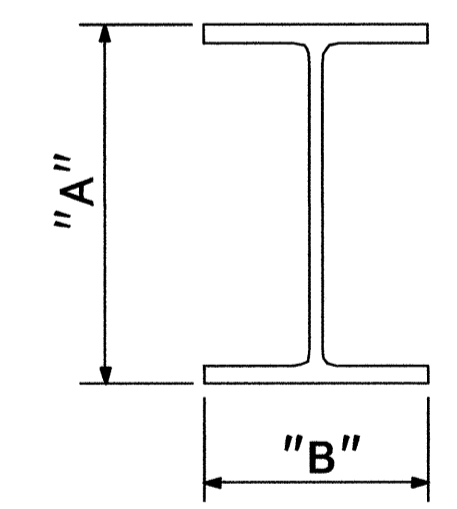


ALTERNATIVE SUPPORT MOUNTING DETAIL



BACKING PLATE DETAIL

SIGN SUPPORTS SECTION DIMENSIONS




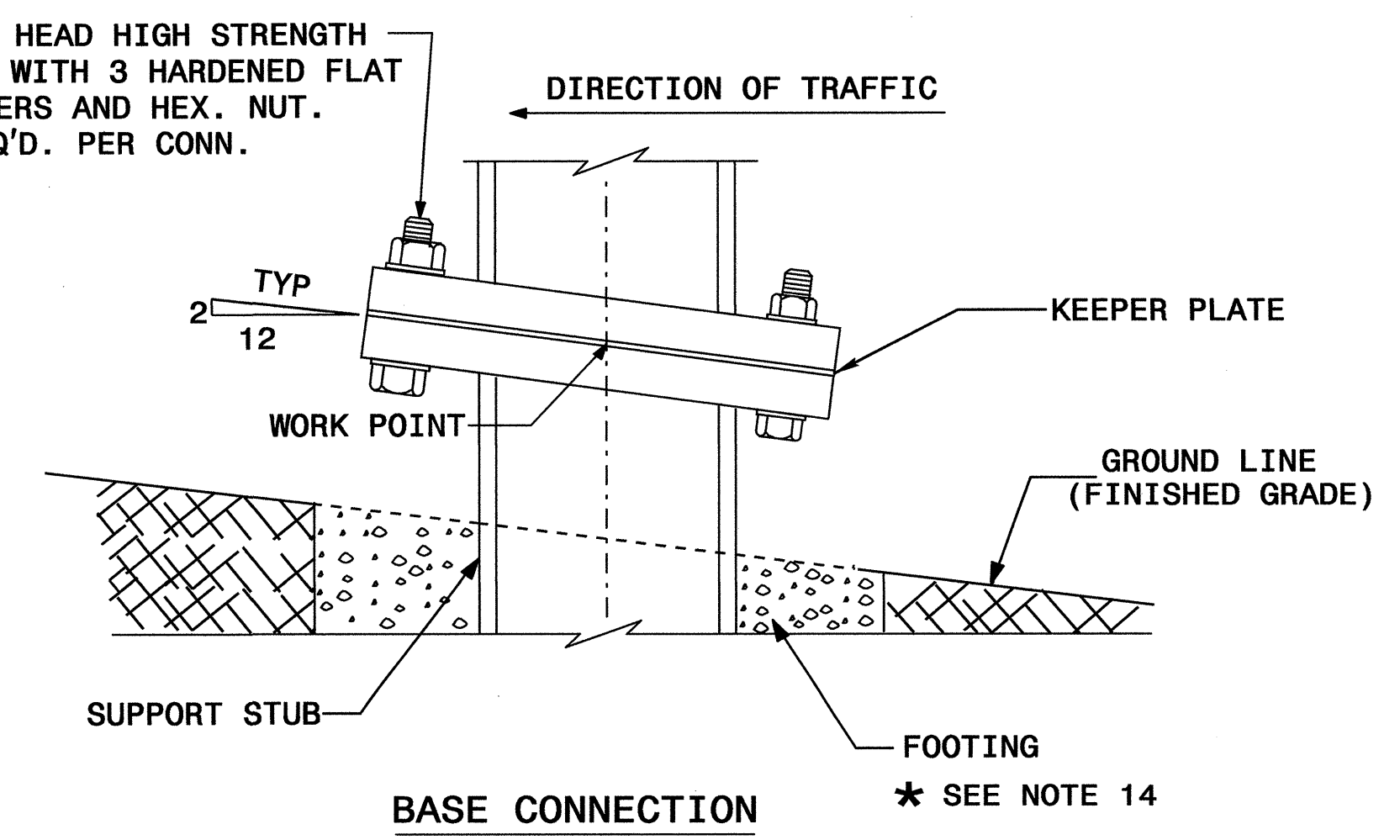
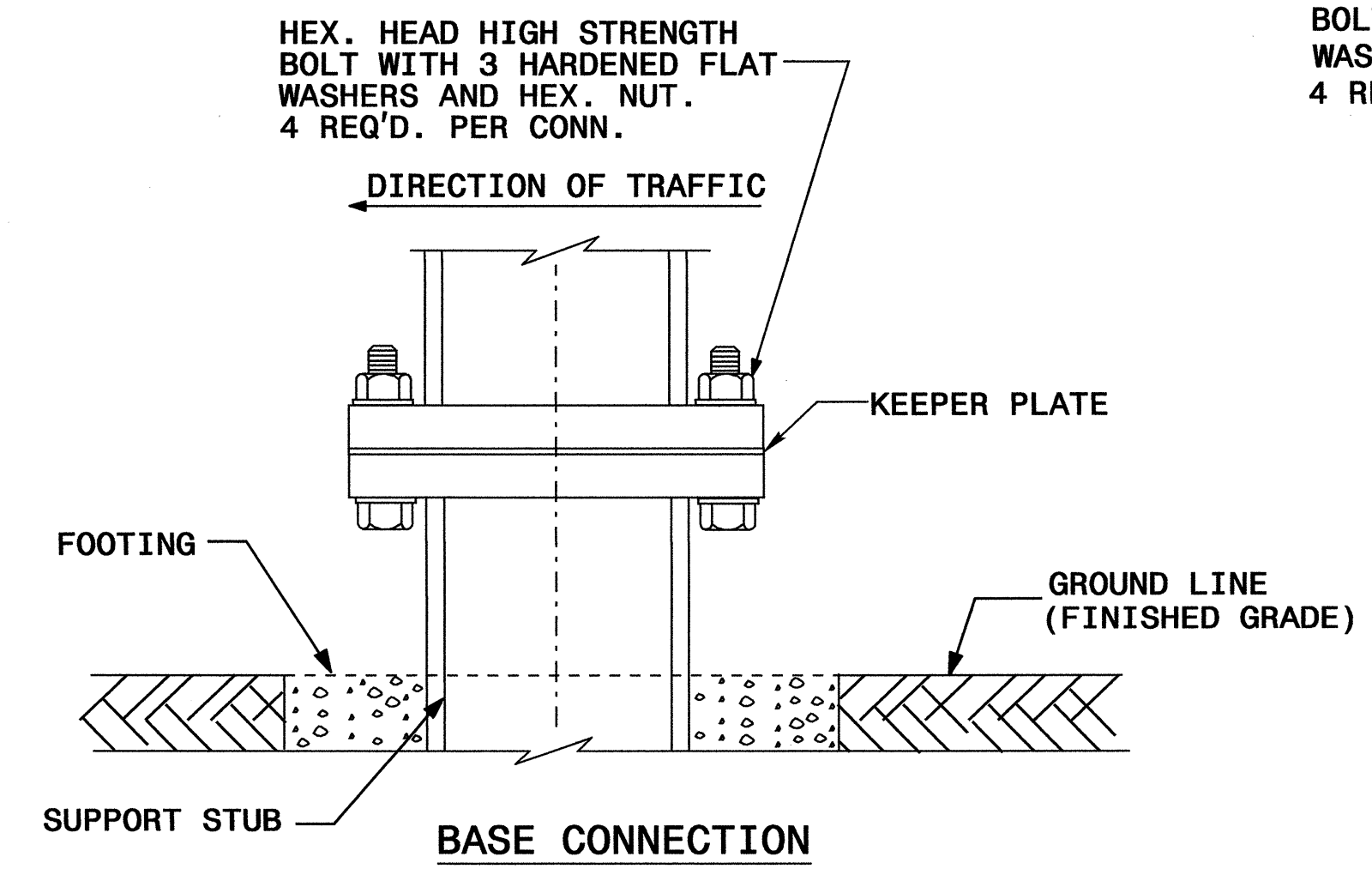
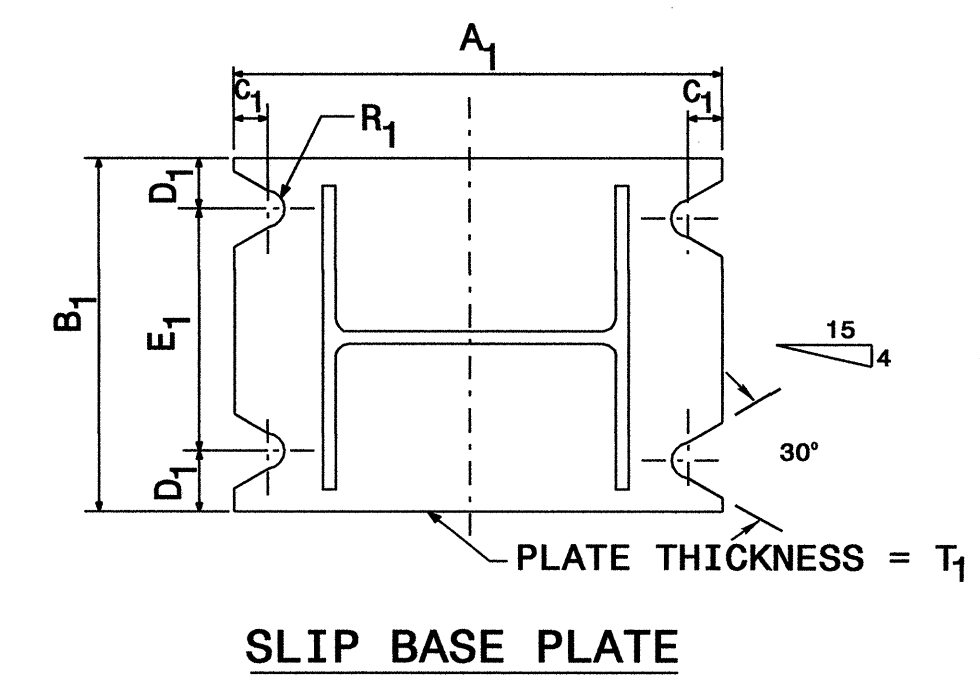
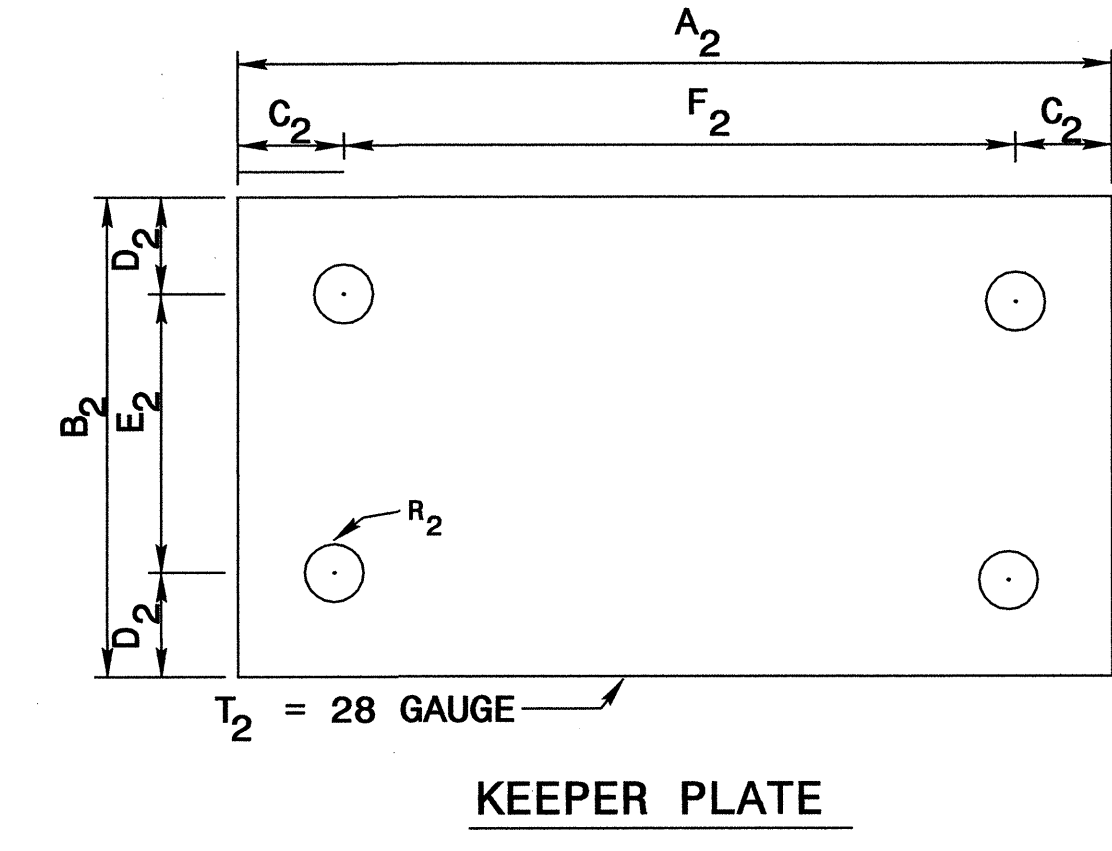
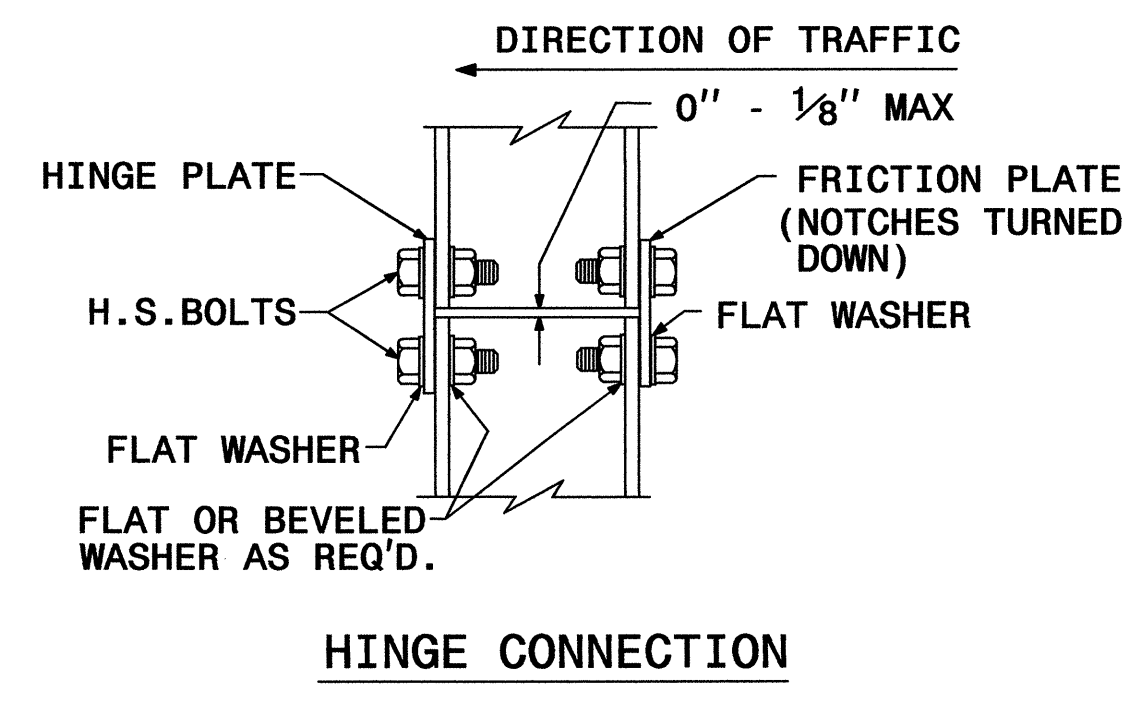
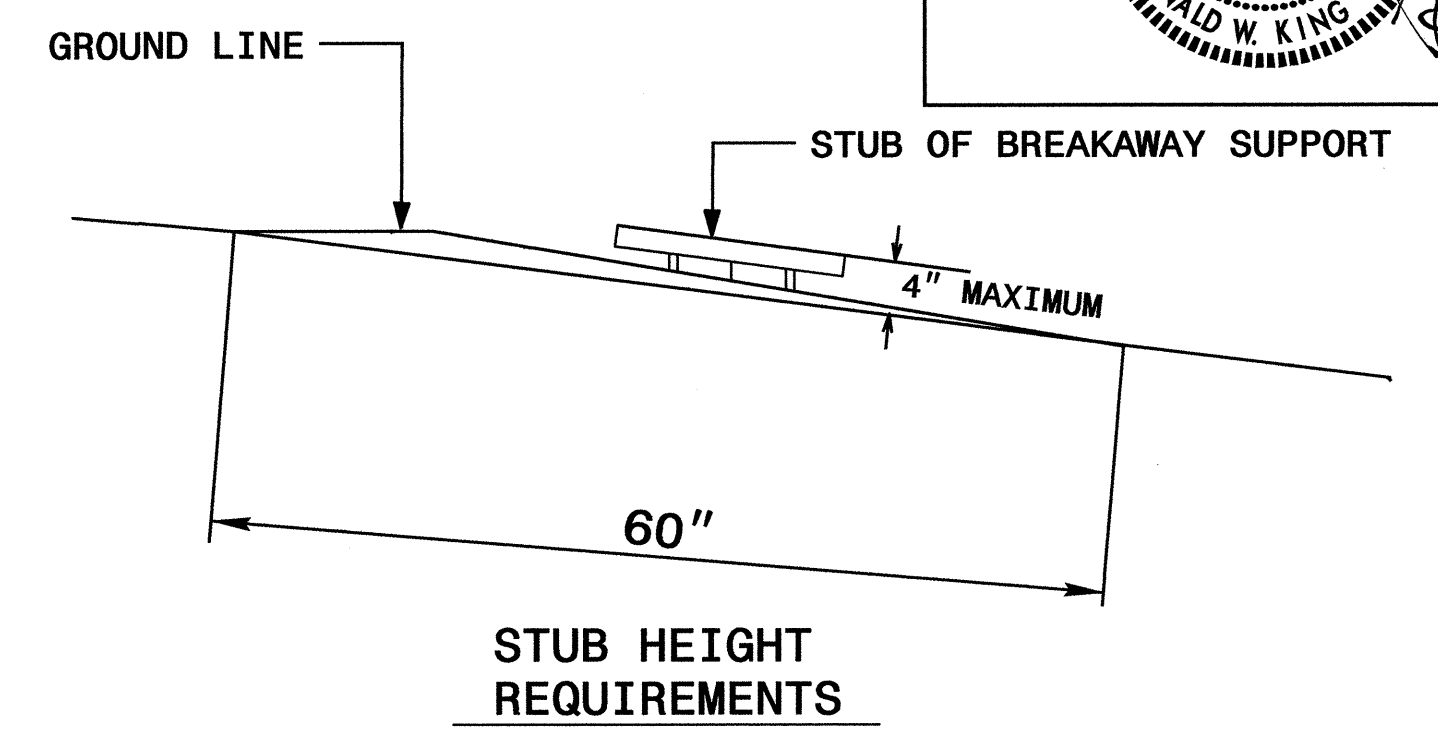
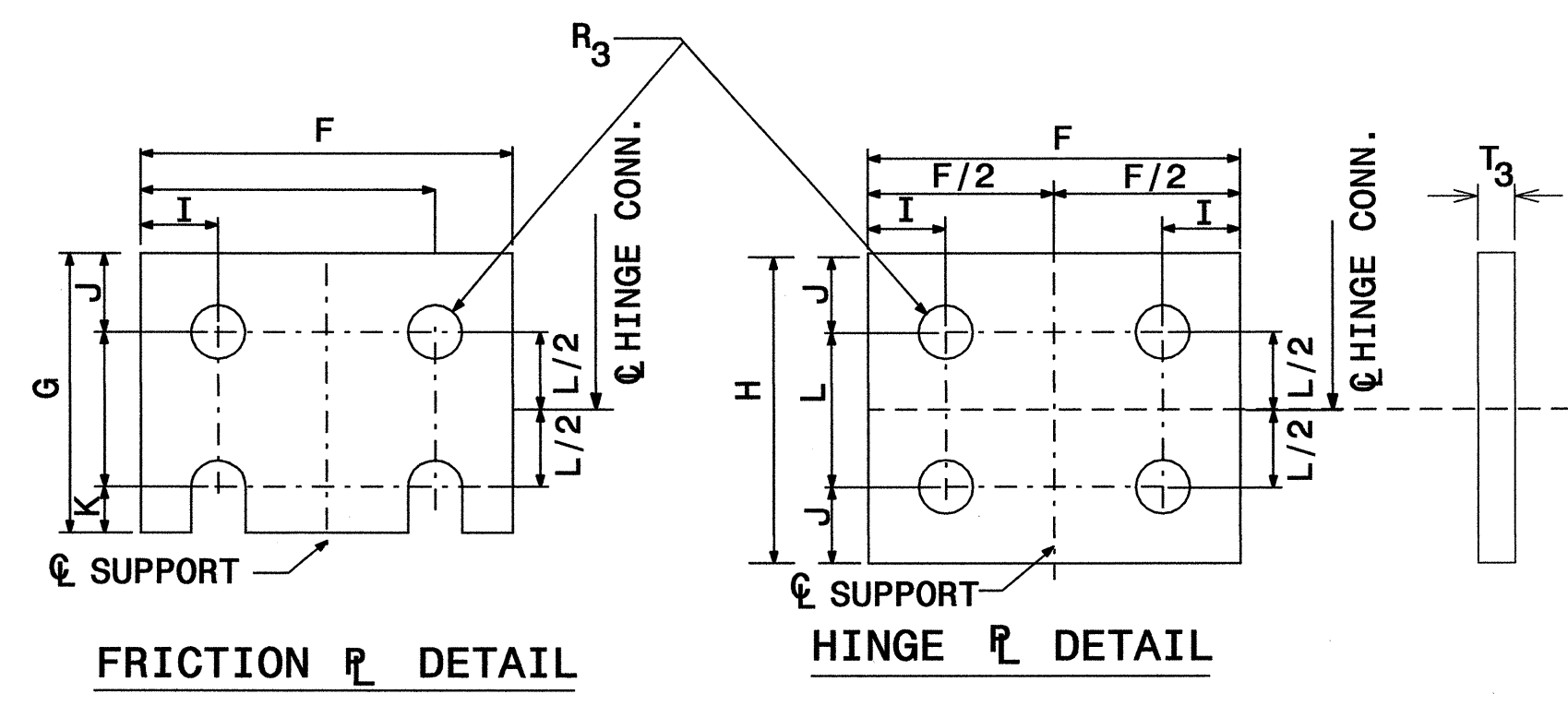
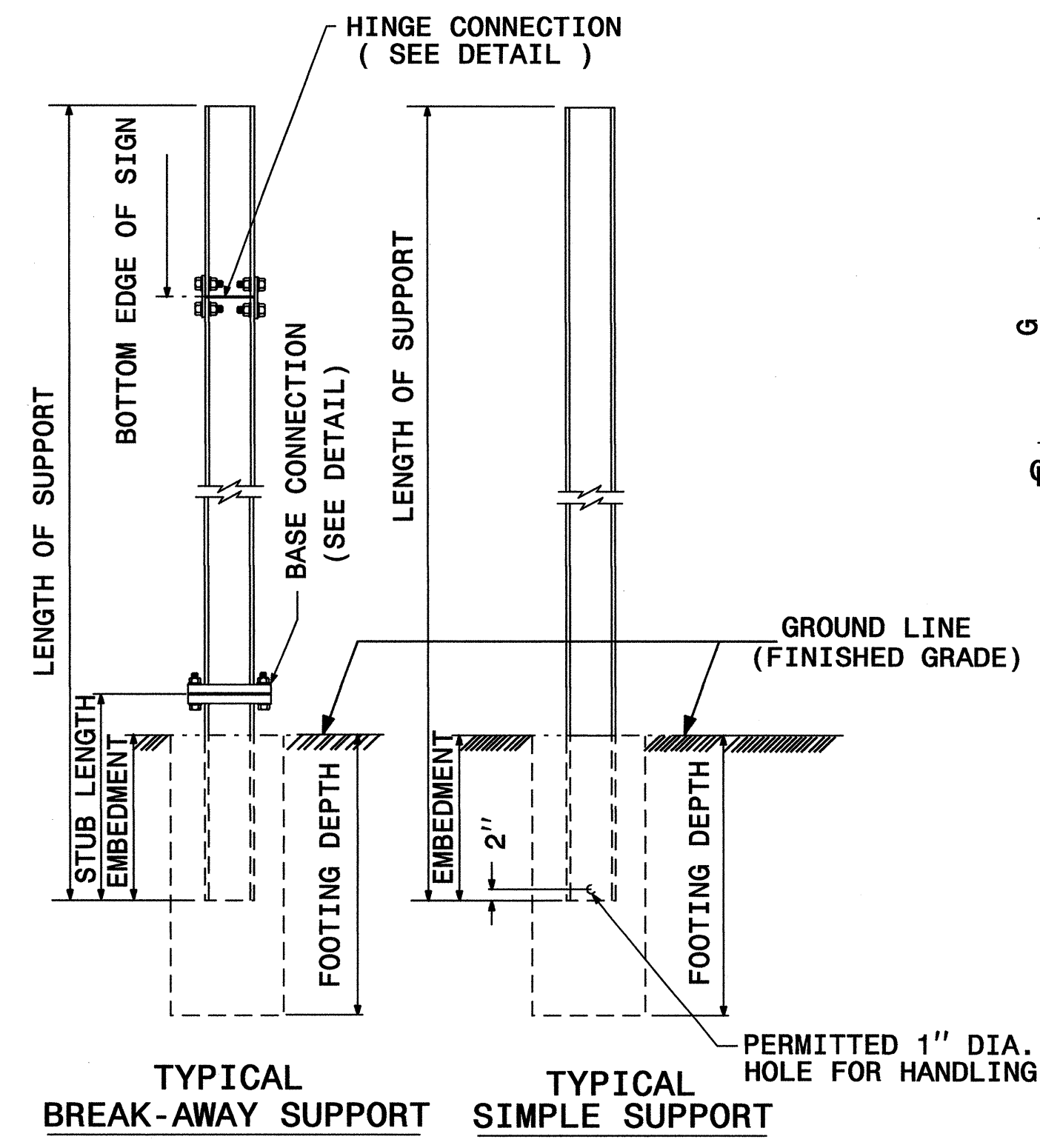
SECTION	A	B
S3 X 5.7	3"	2 3/8"
S4 X 7.7	4"	2 5/8"
W6 X 9	6"	4"
W6 X 12	6"	4"
W6 X 16	6 1/4"	4"
W8 X 18	8 1/8"	5 1/4"
W8 X 21	8 1/4"	5 1/4"
W10 X 22	10 1/8"	5 3/4"
W10 X 26	10 3/8"	5 3/4"
W12 X 26	12 1/4"	6 1/2"
W14 X 30	13 7/8"	6 3/4"
W16 X 31	15 7/8"	5 1/2"
W18 X 35	17 3/4"	6"
W18 X 40	17 7/8"	6"
W21 X 44	20 5/8"	6 1/2"

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 IN ACCORDANCE WITH ASTM A123.
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.

SIGN MOUNTING DETAILS

12-AUG-2009 15:54
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 wmdrew AT TELC221639

TIP NO. R-2417C	SHEET NO. SIGN-4
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DATE: _____	
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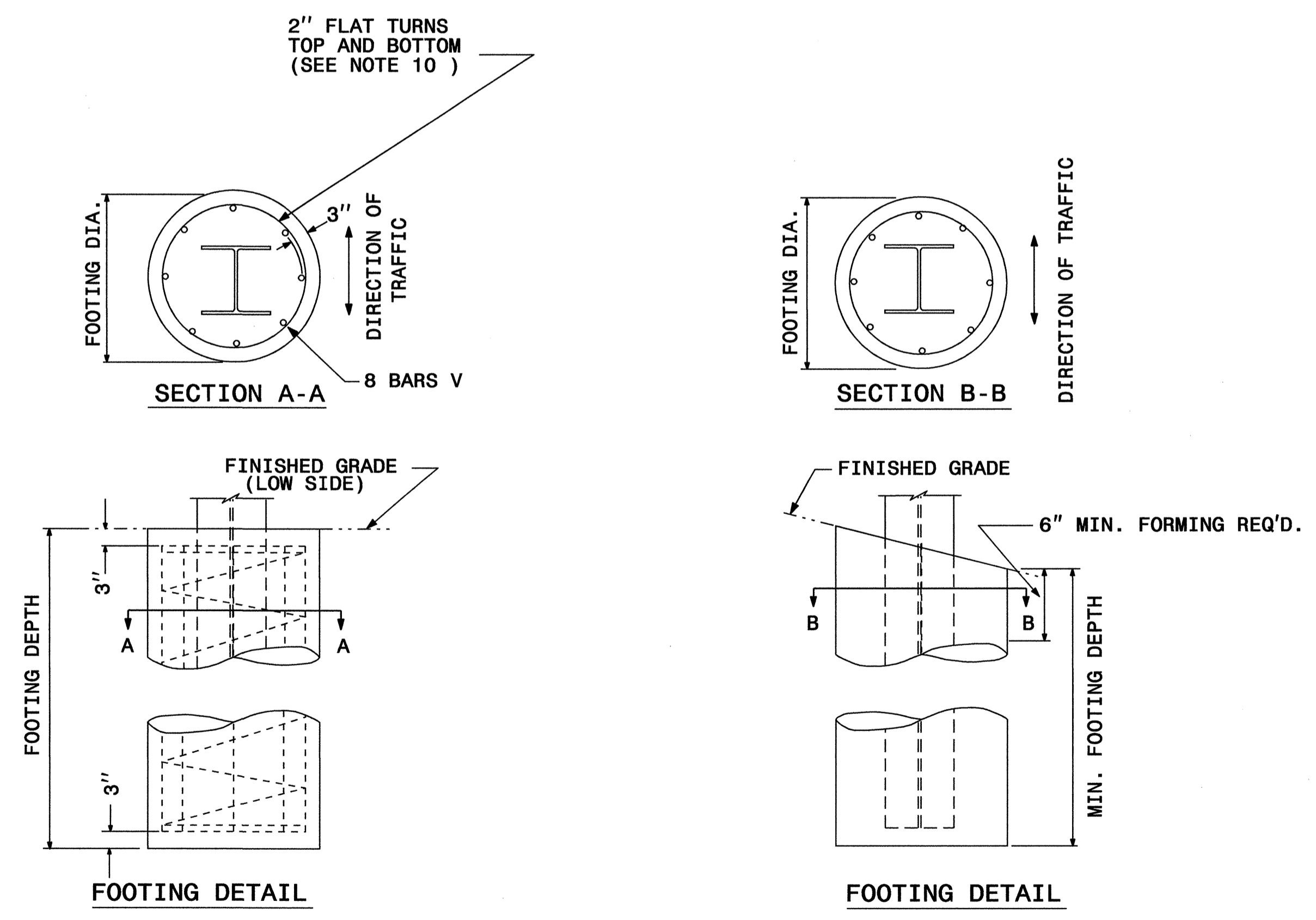
SEE SHEET SIGN-5 FOR DIMENSIONS.
SEE SHEET SIGN-6 FOR NOTES.

GROUND MOUNTED SIGN SUPPORT

I2-AUG-2009 15:54
 N:\Projects\2417C\Traffic Signing\CADD\Signing Layout Plans\Titles.dgn
 wmd@brw AT TEC221839

TIP NO. R-2417C	SHEET NO. SIGN-5
APPROVED: _____	
DATE: _____	
SEAL	

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"	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"	1 1/32"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/32"	28 GAUGE	5/8"DIA.X2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	1 1/32"	3/8"	39
W6X16	5/8"DIA.X3 3/4"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	1 1/32"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/32"	28 GAUGE	5/8"DIA.X2 1/2"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	1 1/32"	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"	1 1/32"	13 1/2"	6 1/2"	1 1/4"	7/8"	4 3/4"	1 1/32"	28 GAUGE	5/8"DIA.X2 1/2"	5 1/4"	4"	4 1/2"	1"	1 1/8"	5/8"	2 1/4"	1 1/32"	1/2"	70
W8X21	3/4"DIA.X 4 1/4"	14"	7"	1 1/2"	1"	5"	1 1/2"	1 3/32"	14"	7"	1 1/2"	1"	5"	1 3/32"	28 GAUGE	3/4"DIA.X2 3/4"	5 1/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	1/2"	73
W10X22	3/4"DIA.X 4 1/4"	16"	8"	1 1/2"	1"	6"	1 1/2"	1 3/32"	16"	8"	1 1/2"	1"	6"	1 3/32"	28 GAUGE	3/4"DIA.X2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	1/2"	119
W10X26	3/4"DIA.X4 3/4"	16 1/2"	8"	1 1/2"	1"	6"	1 3/4"	1 3/32"	16 1/2"	8"	1 1/2"	1"	6"	1 3/32"	28 GAUGE	3/4"DIA.X2 3/4"	5 3/4"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	5/8"	140
W12X26	3/4"DIA.X4 3/4"	18 1/2"	9"	1 1/2"	1"	7"	1 3/4"	1 3/32"	18 1/2"	9"	1 1/2"	1"	7"	1 3/32"	28 GAUGE	3/4"DIA.X2 3/4"	6 1/2"	6"	7"	1"	1 3/4"	3/4"	3 1/2"	1 3/32"	5/8"	176
W14X30	1"DIA.X 5"	22"	9"	2"	1 1/2"	6"	2"	1 7/32"	22"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA.X3"	6 3/4"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	5/8"	205
W16X31	1"DIA.X 5"	24"	9"	2"	1 1/2"	6"	2"	1 7/32"	24"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA.X3 1/4"	5 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	223
W18X35	1"DIA.X 5"	25"	9"	2"	1 1/2"	6"	2"	1 7/32"	25"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA.X3 1/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	243
W18X40	1"DIA.X5 1/2"	26"	9"	2"	1 1/2"	6"	2 1/4"	1 7/32"	26"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA.X3 3/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	278
W21X44	1"DIA.X5 1/2"	29"	9"	2"	1 1/2"	6"	2 1/2"	1 7/32"	29"	9"	2"	1 1/2"	6"	1 7/32"	28 GAUGE	1"DIA.X3 3/4"	6 1/2"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	310



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

* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS
SEE SHEET SIGN-6 FOR NOTES.

GROUND MOUNTED SIGN SUPPORT

12-AUG-2009 15:55
 N:\IT\Projects\2417\Traffic\Signing\CADD\Signing Layout Plans\Titlesht.dgn
 wmdrew AT TELC221639

TIP NO. R-2417C	SHEET NO. SIGN-6
APPROVED: _____	
DATE: _____	
SEAL	

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 SO AS TO INSURE NO LOSS OF STRENGTH. 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:

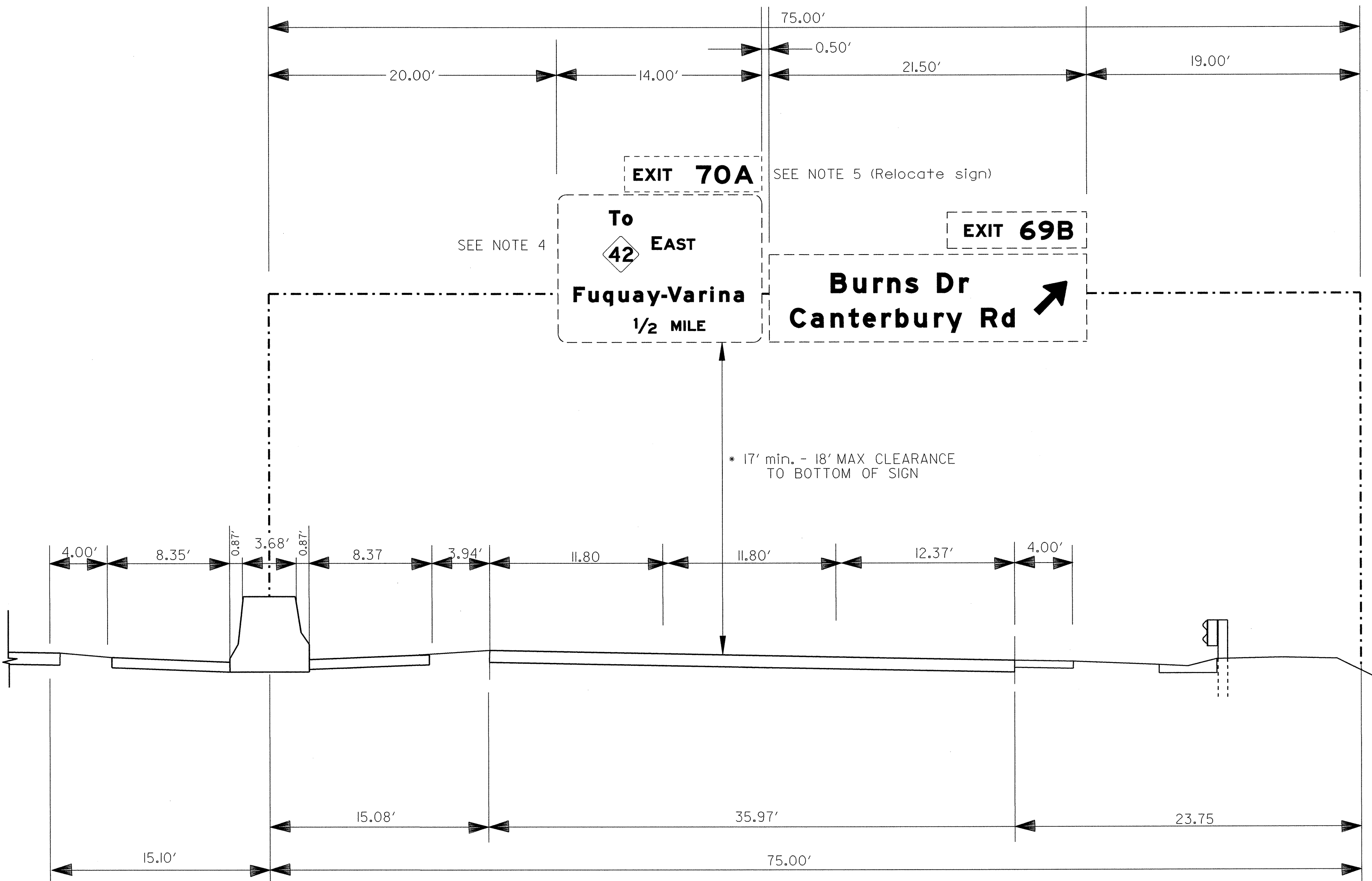
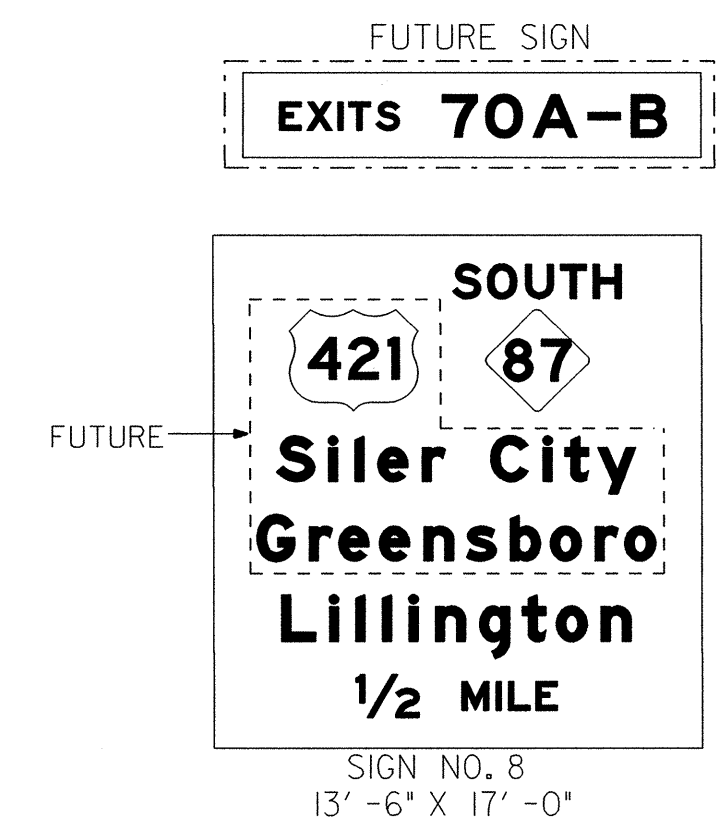
BOLT DIAMETER	TORQUE (LB. FT.)
1/2"	9
5/8"	22
3/8"	37
1"	48

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 TWO FEET INTO THE ROCK. CONSTRUCT ALL FOOTINGS OF CLASS A CONCRETE.
- FORM TOP 6" OF FOOTINGS. ENGINEER APPROVES THE METHOD USED.
- THE FINAL FLAT TURN OF SPIRAL OR HOOPS NO. 3 OR LARGER PLACED 3" 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 7 FEET, 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.

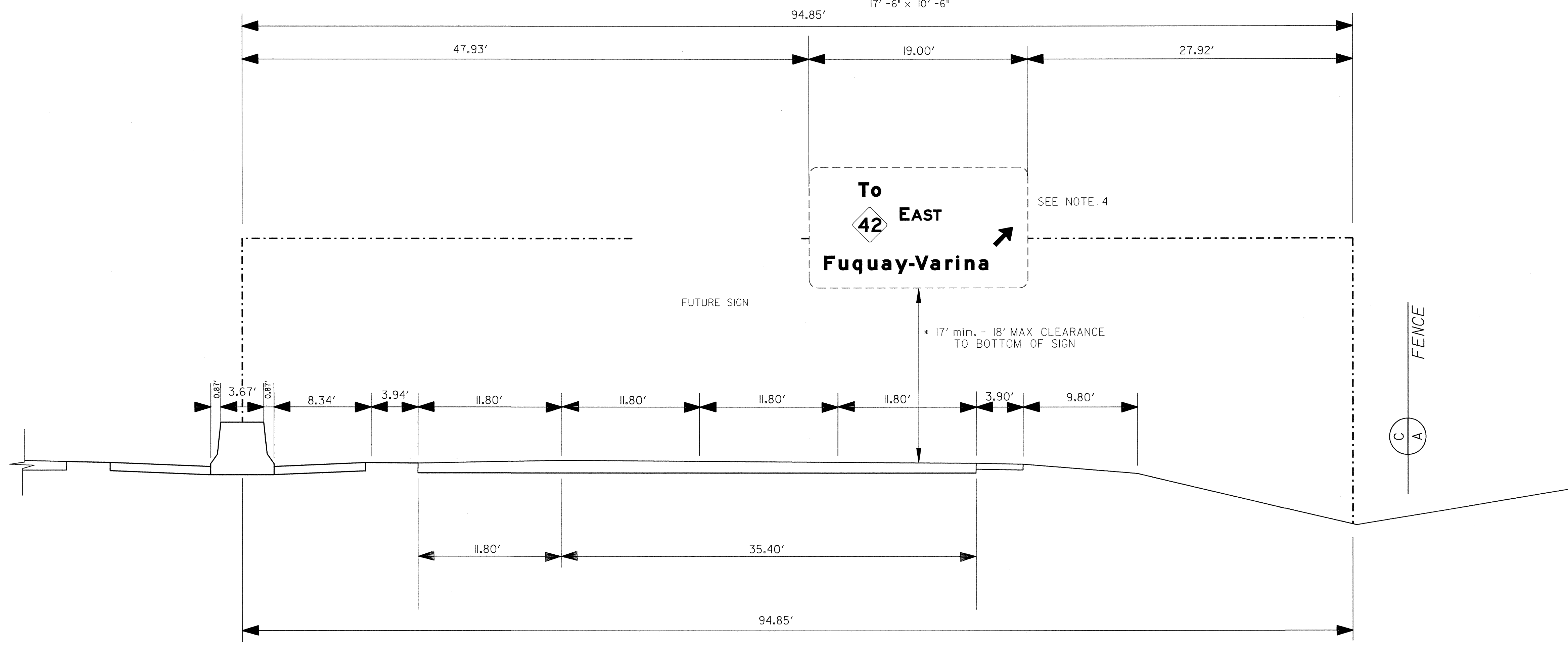
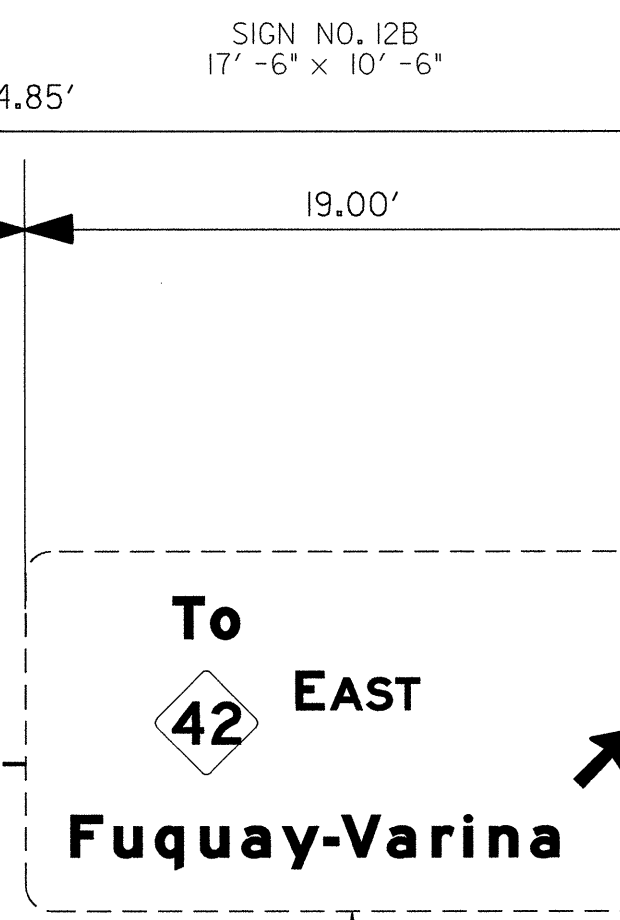
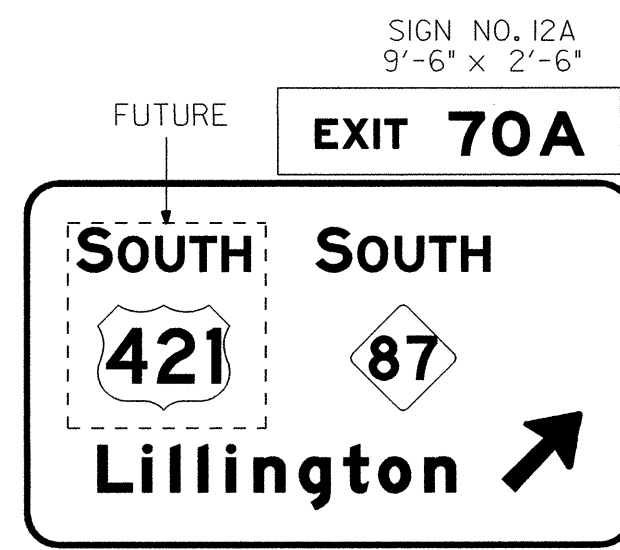
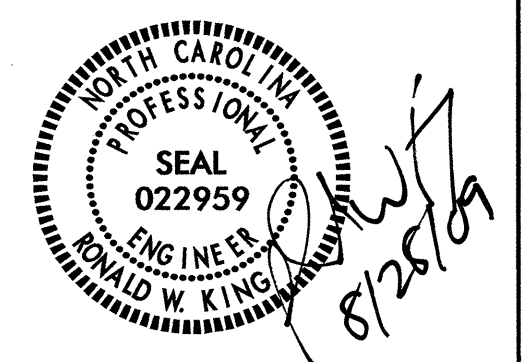
GROUND MOUNTED SIGN SUPPORT

TIP NO. R-2417C	SHEET NO. SIGN-7
APPROVED: _____	
DATE: _____	
SEAL	



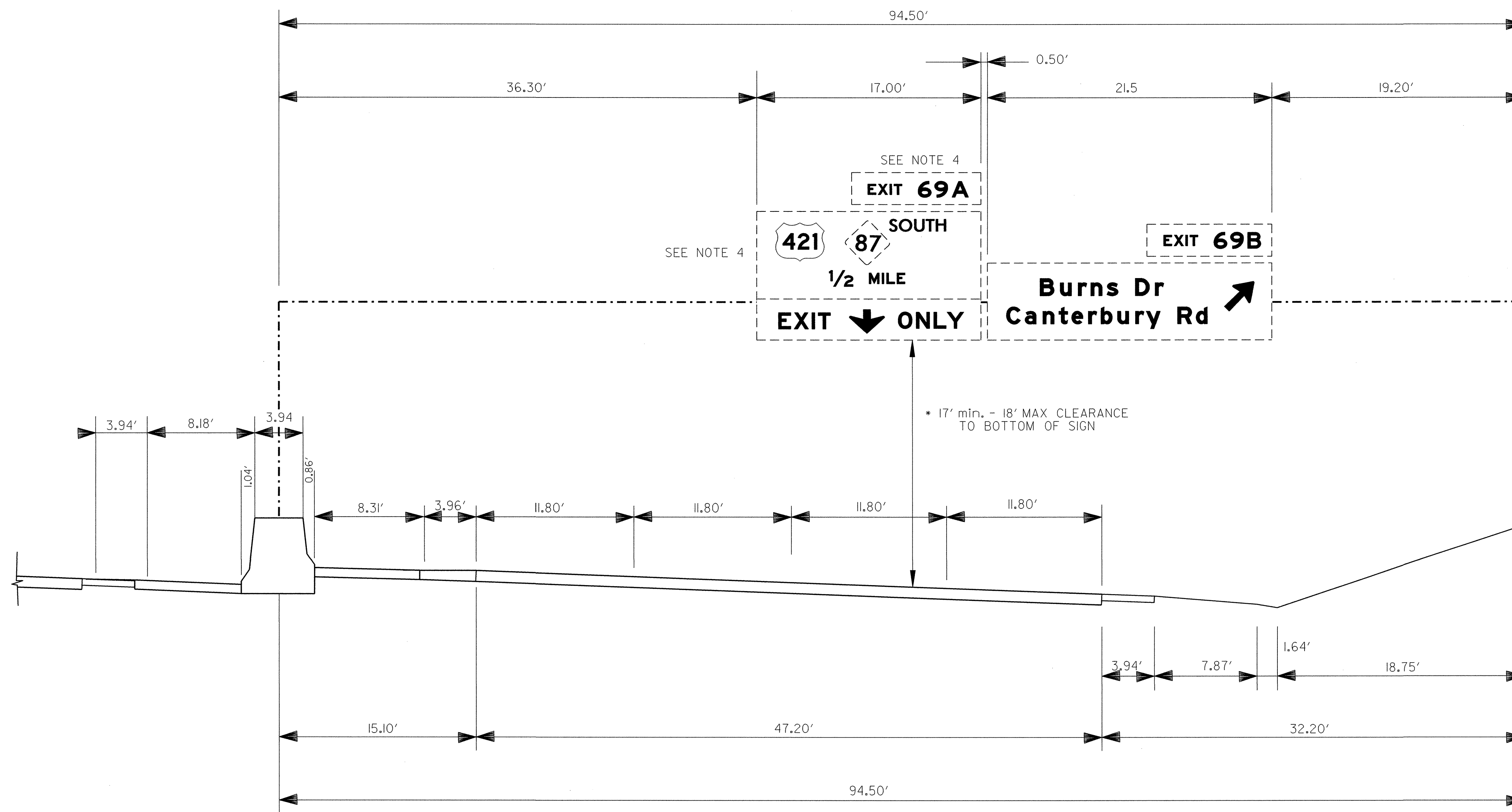
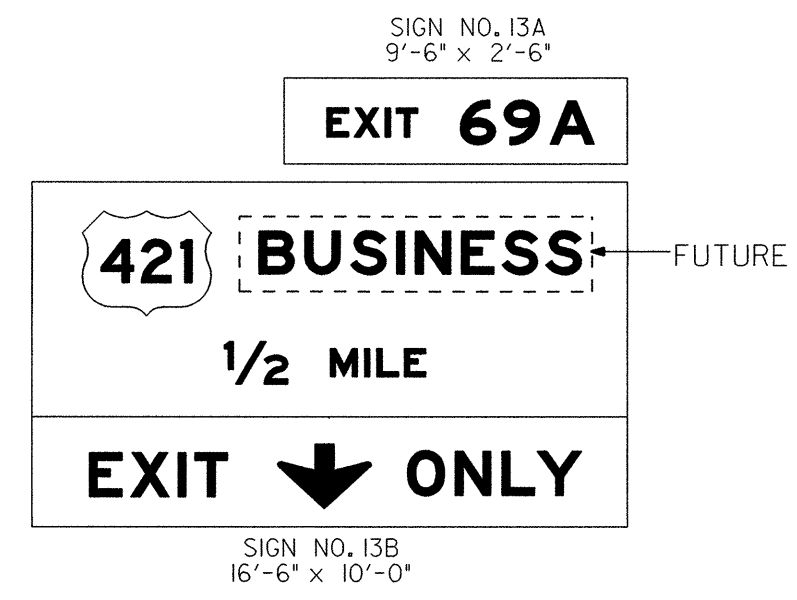
EXISTING OVERHEAD ASSEMBLY "AA"
STA. 43+43 (US 1)
NBL

TIP NO. R-2417C	SHEET NO. SIGN-9
APPROVED: _____	
DATE: _____	
SEAL	



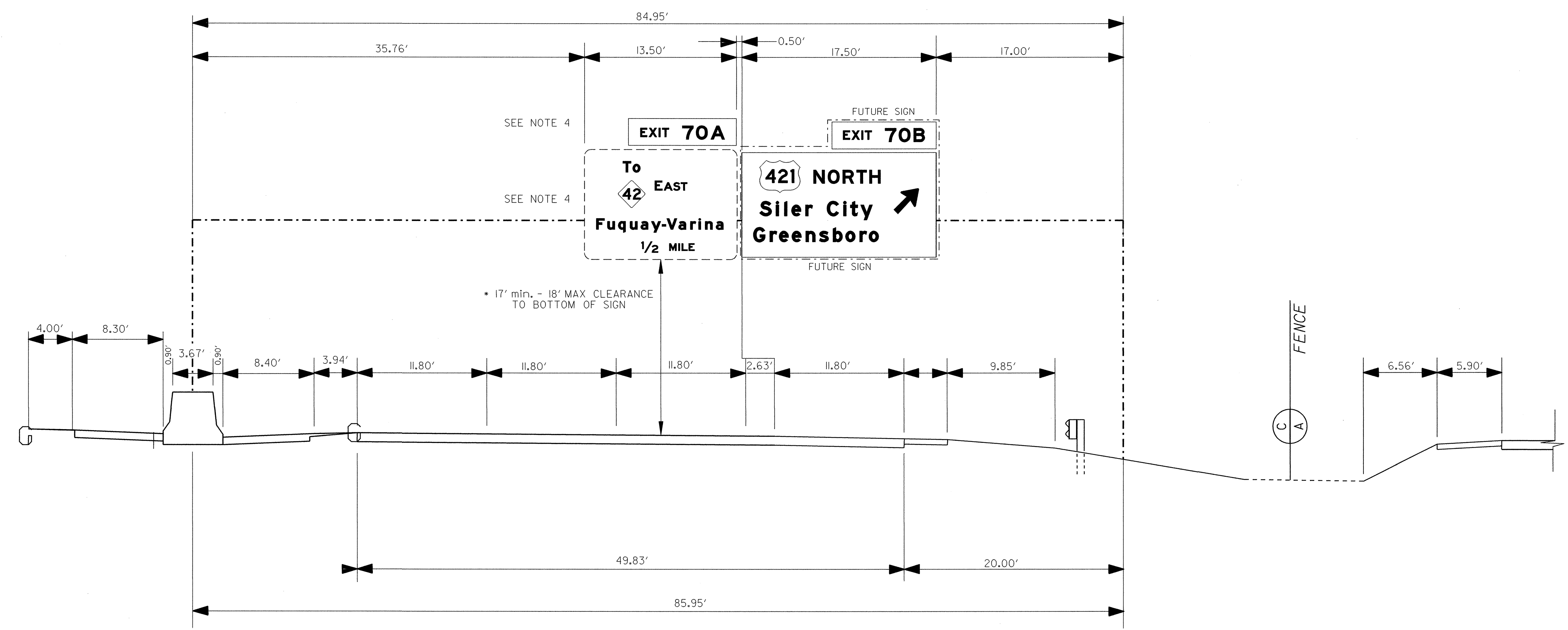
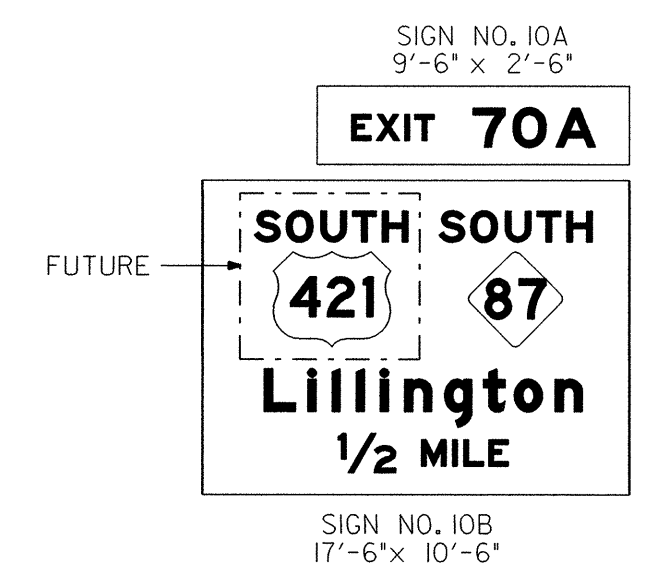
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STA. 32+80 (US 1)
NBL

TIP NO. R-2417C	SHEET NO. SIGN-10
APPROVED: _____	
DATE: _____	
SEAL	



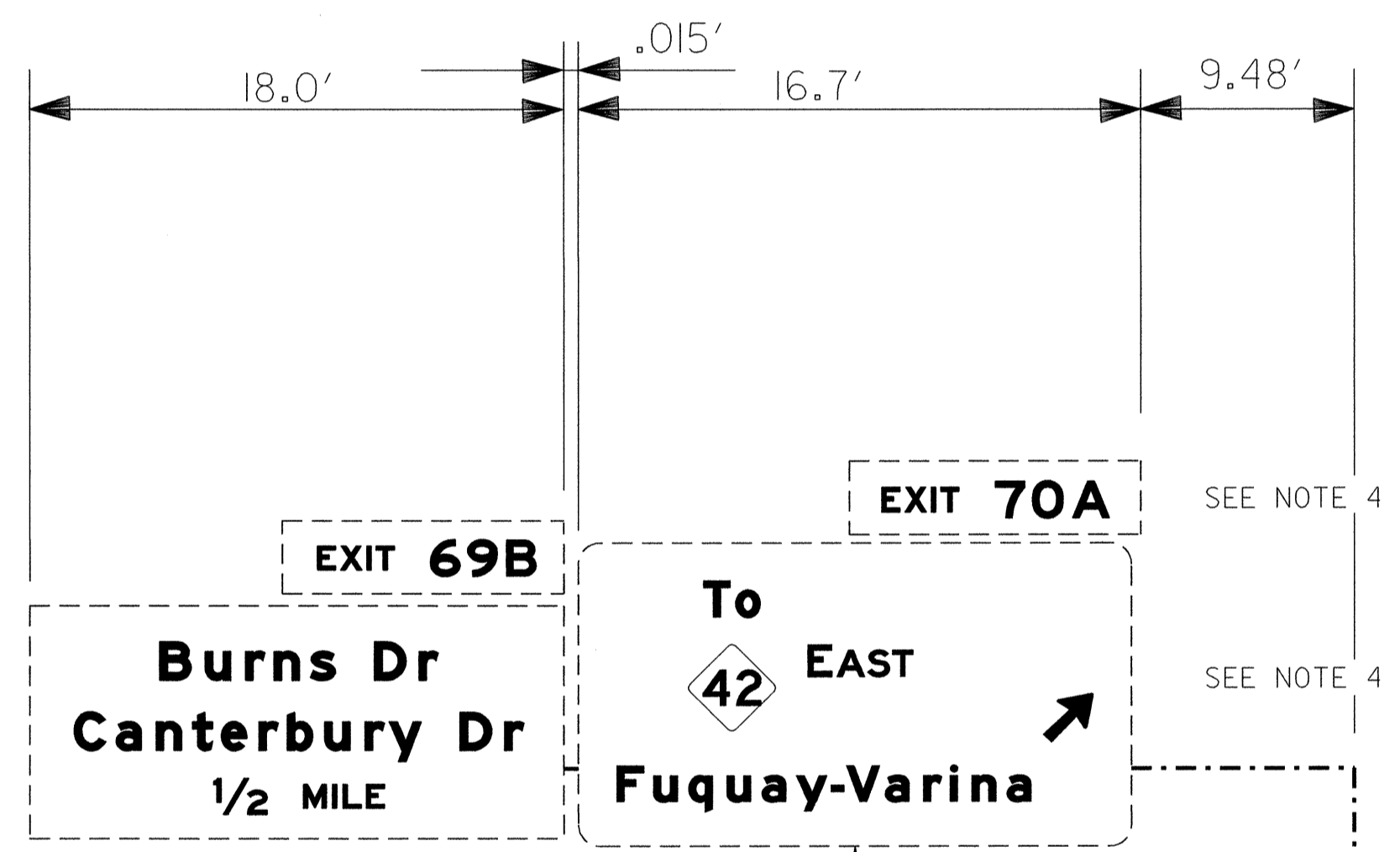
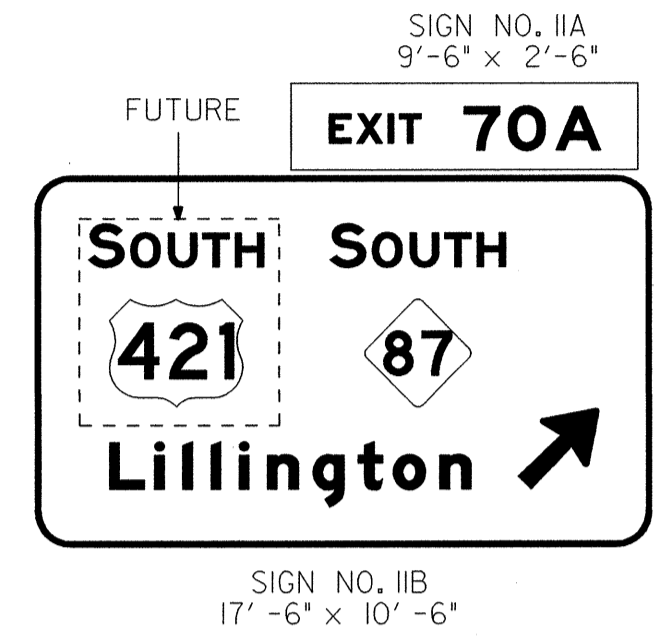
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STA. 36+00 (US 1)
SBL

TIP NO. R-2417C	SHEET NO. SIGN-11
APPROVED: _____	
DATE: _____	
SEAL	

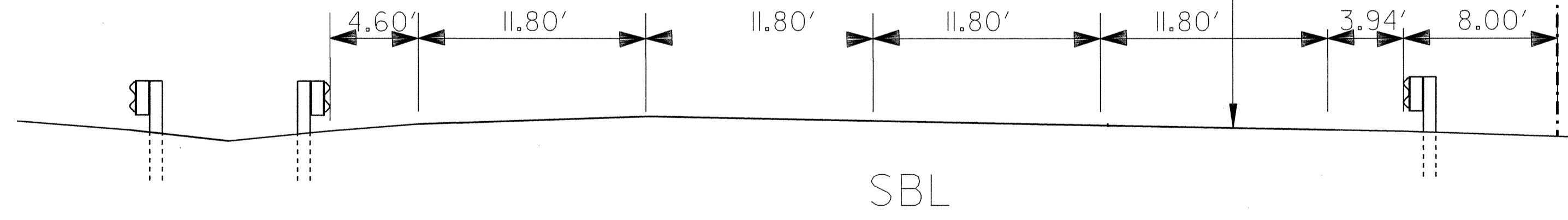


EXISTING OVERHEAD ASSEMBLY "EE"
STA. 21+60 (US 1)
SBL

TIP NO. R-2417C	SHEET NO. SIGN-12
APPROVED: _____	
DATE: _____	
SEAL	

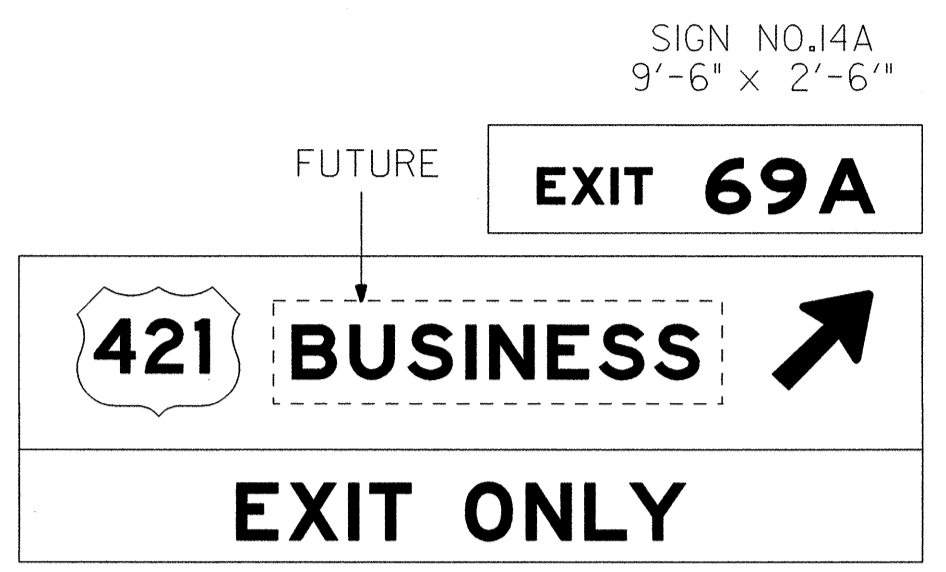


* 17' min. - 18' MAX CLEARANCE
TO BOTTOM OF SIGN

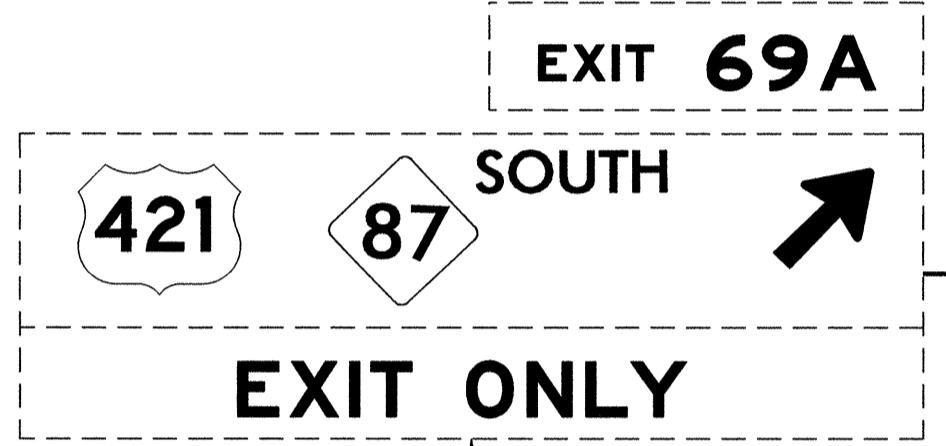
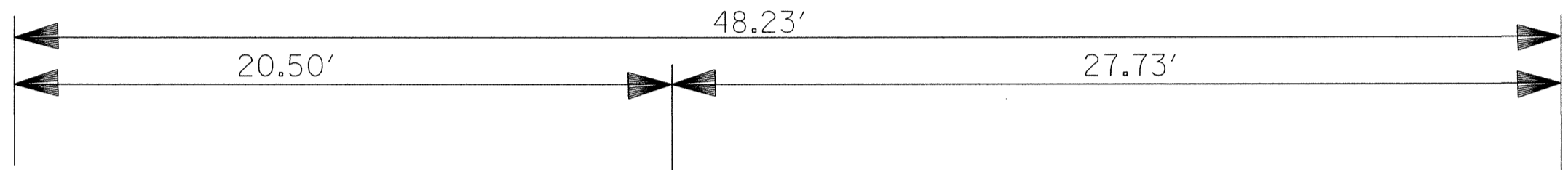


EXISTING OVERHEAD ASSEMBLY "FF"
STA. 26+50 (US 1)
SBL

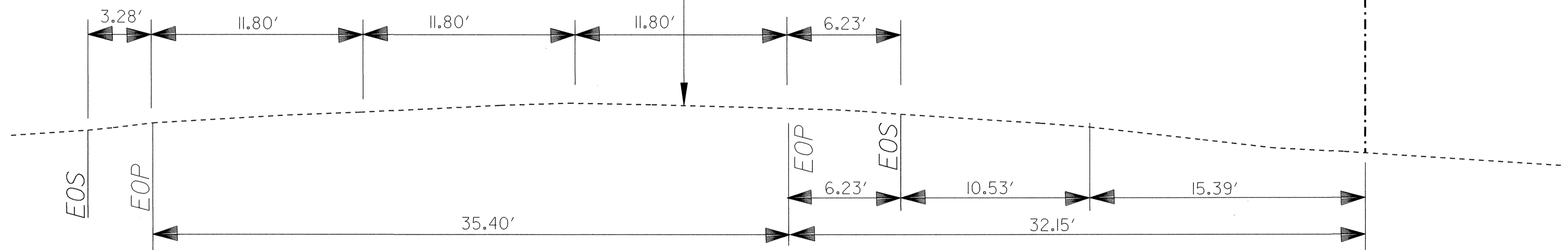
TIP NO. R-2417C	SHEET NO. SIGN-13
APPROVED: _____	
DATE: _____	
SEAL	



SIGN NO. 14B
21'-0" x 8'-6"



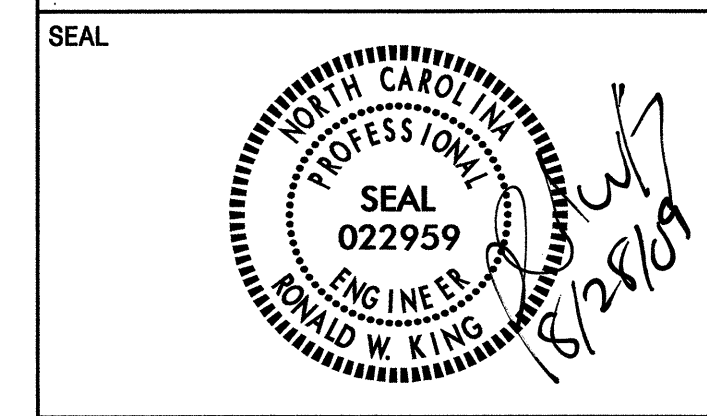
* 17' min. - 18' MAX CLEARANCE
TO BOTTOM OF SIGN



EXISTING OVERHEAD ASSEMBLY "GG"
STA. 47+20 (US 1)
SBL

TIP NO. R-2417C	SHEET NO. SIGN-14
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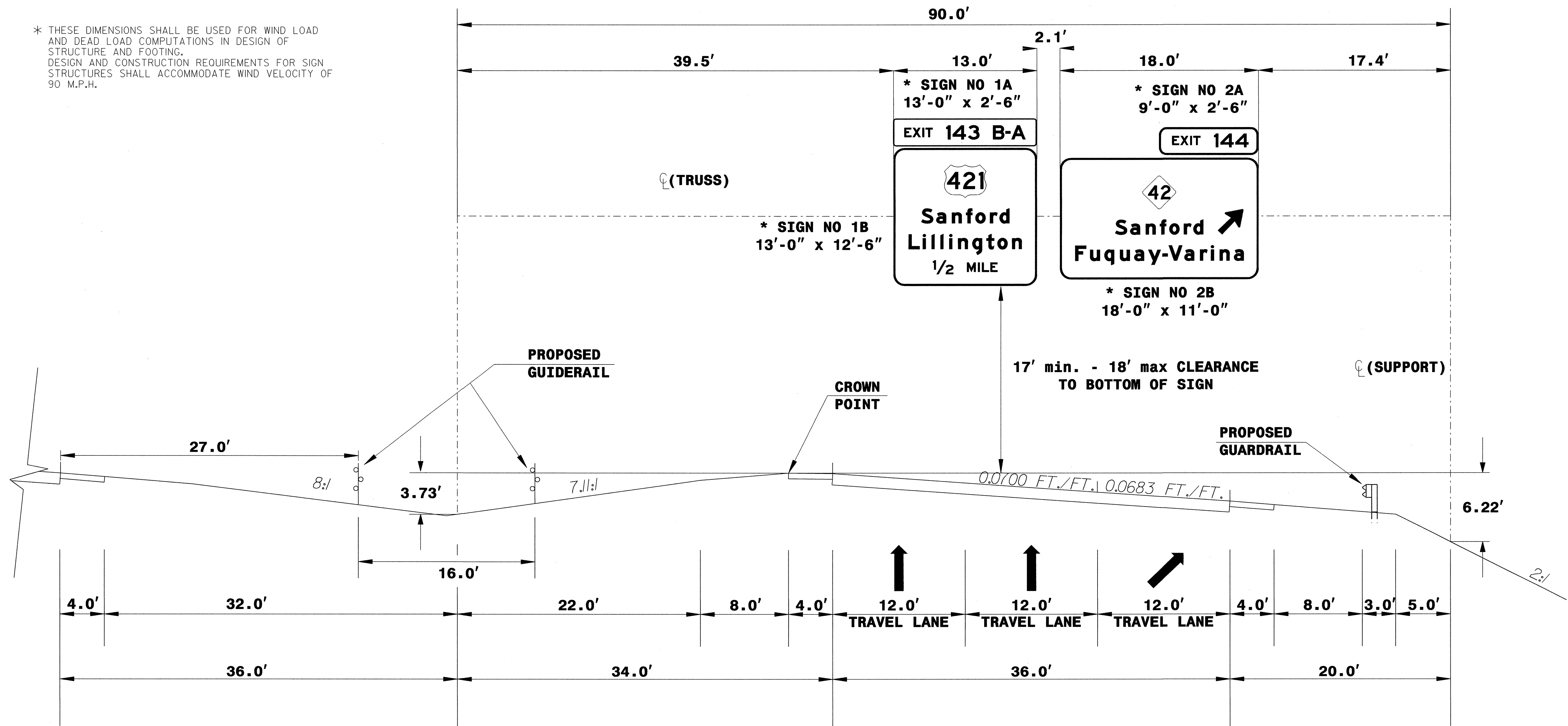
APPROVED: _____
DATE: _____



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.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 6" AND NOT MORE THAN 24" 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 THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



OVERHEAD ASSEMBLY 'A'
@ -LREV- (SBL) STA 545+00

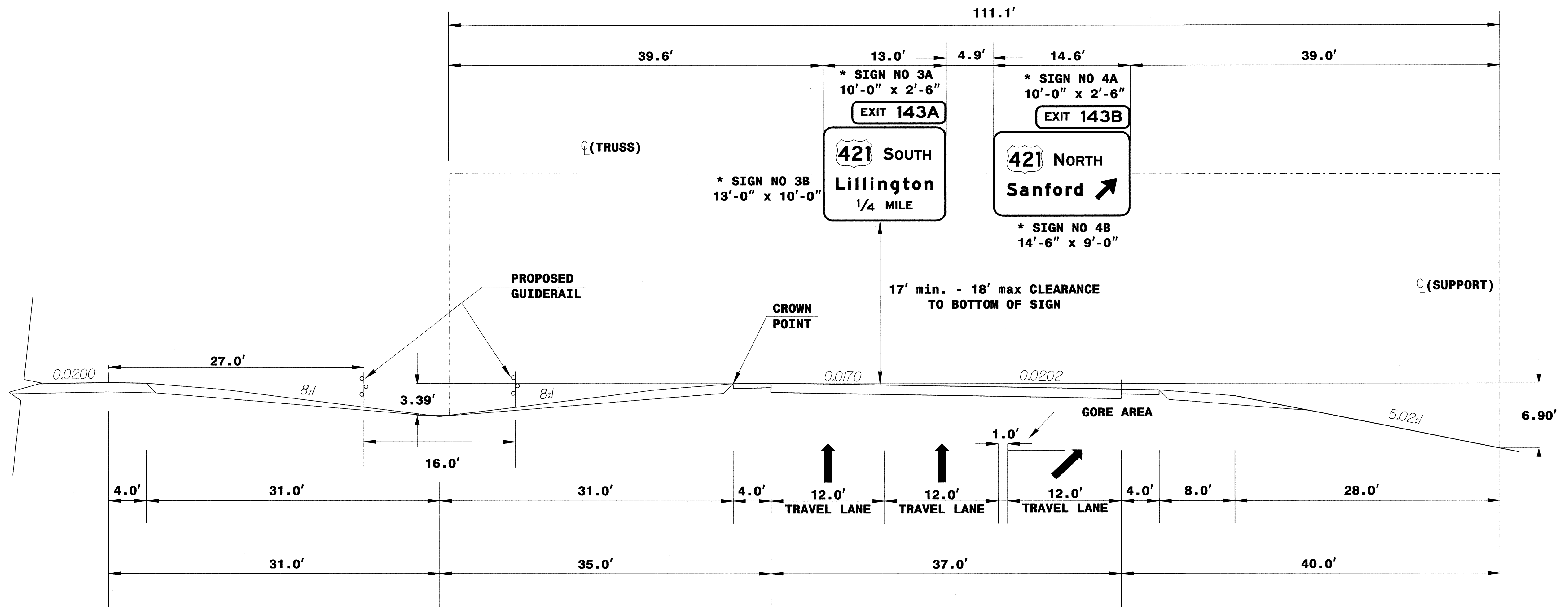
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TIP NO. R-2417C	SHEET NO. SIGN-15
APPROVED: _____	
DATE: _____	
SEAL	



- 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.
 - THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 6" AND NOT MORE THAN 24" 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 THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



OVERHEAD ASSEMBLY 'B'
@ -LREV- (NBL) STA 595+40

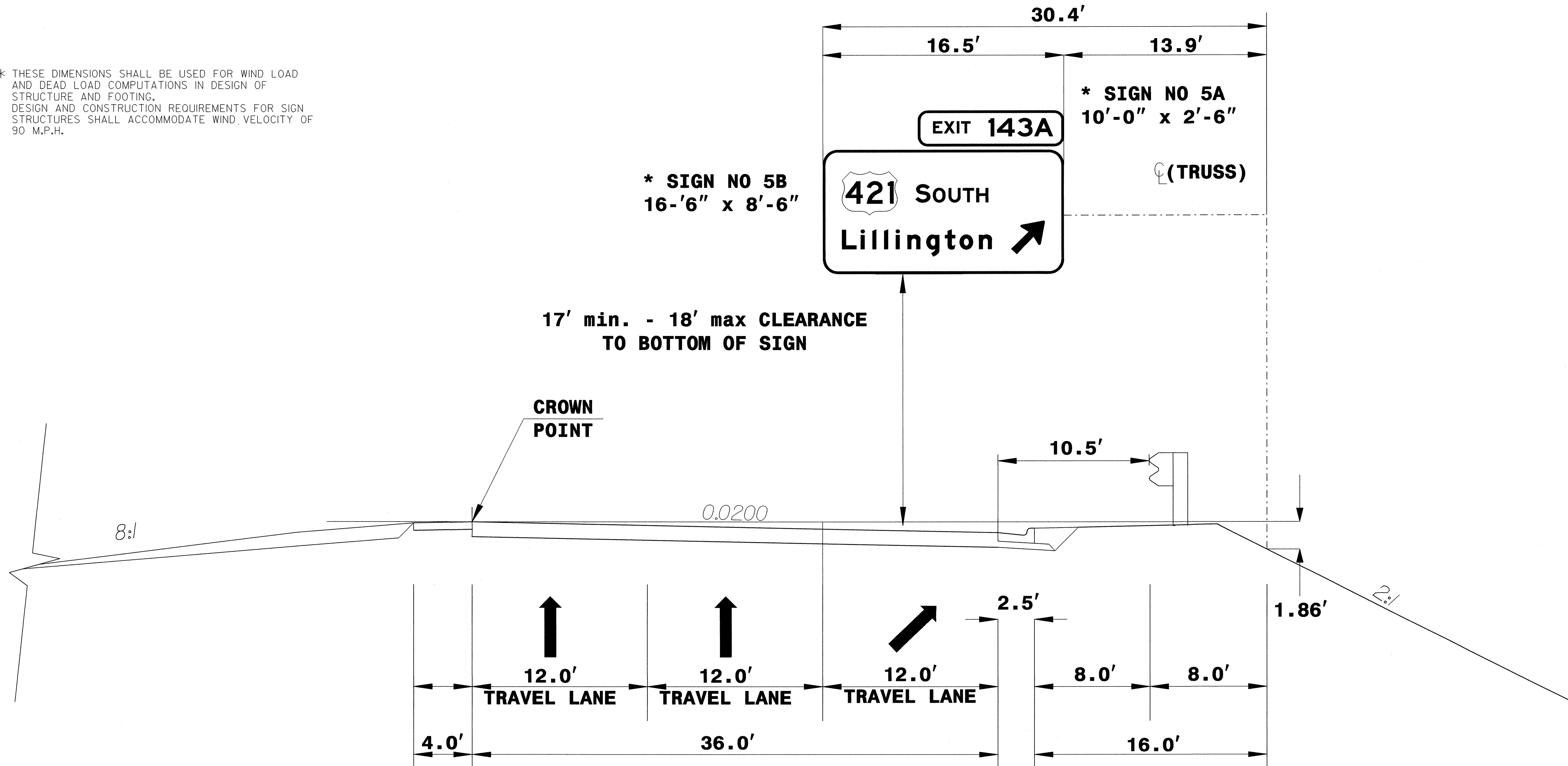
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TIP NO. R-2417C	SHEET NO. SIGN-16
APPROVED: _____	
DATE: _____	
SEAL	

NOTES:

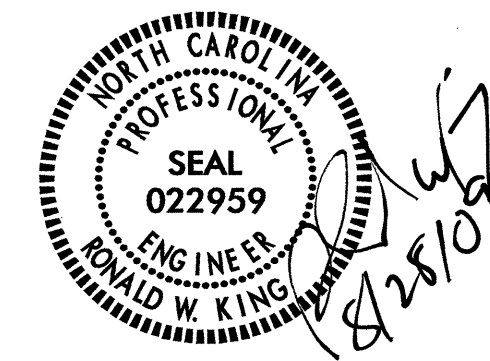
- IF THE CONTRACTOR BIDS ALUMMUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
- MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
- FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
- THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 6" AND NOT MORE THAN 24" 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 THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



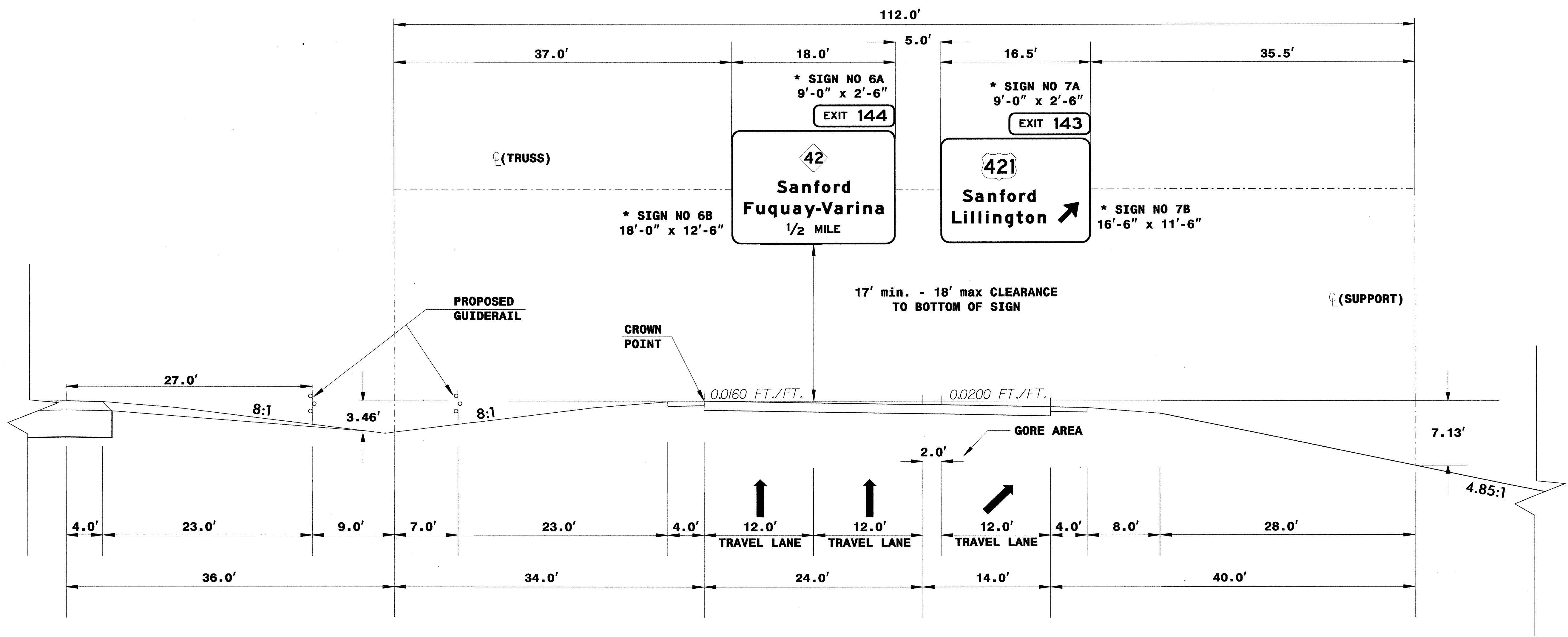
OVERHEAD ASSEMBLY 'C'
@ -LREV- (SBL) STA 616+50

TIP NO. R-2417C	SHEET NO. SIGN-17
APPROVED: _____	
DATE: _____	
SEAL	



- 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.
 - THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 6" AND NOT MORE THAN 24" 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 THE PLANS, INCLUDING THOSE DESIGNATED AS "FUTURE".

* THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTING. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 90 M.P.H.



OVERHEAD ASSEMBLY 'D'
@ -LREV- (NBL) STA 632+00

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 wmbrew AT 12/22/09

TIP NO. R-2417C	SHEET NO. SIGN-19
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 2B BACKG COLOR: Green
 TYPE: A COPY COLOR: White
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
NC242	89.6	76	36	36
ARMED	171.5	48	22.4	35.3

SIGN WIDTH: 18'-0"
 HEIGHT: 11'-0"
 TOTAL AREA: 198.0 Sq.Ft.

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

NO. Z BARS: 3
 LENGTH: 208.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 PROJECT ID: R-2417C DIV: 8

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text	Length
EM 2000	S a n f o r d	59.7
EM 2000	F u q u a y - V a r i n a	163.2

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 5B BACKG COLOR: Green
 TYPE: A COPY COLOR: White
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
W1_4	15.7	48.3	45.4	36
ARMED	154.8	16.2	22.4	35.3

SIGN WIDTH: 16'-6"
 HEIGHT: 8'-6"
 TOTAL AREA: 140.3 Sq.Ft.

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

NO. Z BARS: 3
 LENGTH: 190.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 PROJECT ID: R-2417C DIV: 8

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text	Length
E 2000	S O U T H	76.1
E 2000	L i l l i n g t o n	157.7

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 3A,5A BACKG COLOR: Green
 TYPE: B COPY COLOR: White
 QUANTITY: 2

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 10'-0"
 HEIGHT: 2'-6"
 TOTAL AREA: 25.0 Sq.Ft.

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 8"

NO. Z BARS: 2
 LENGTH: 112.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 PROJECT ID: R-2417C DIV: 8

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text	Length
E 2000	E X I T	12.6
E 2000	1 4 3 A	98.4

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

13-AUG-2009 08:08 N:\TIP\Project\2417\c\Tr\of\Tr\Signing\Layout\Plans\2417_Cover.sht..ldgn wmd\Draw AT 10:22:21:639

TIP NO. R-2417C	SHEET NO. SIGN-20
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 3B BACKG COLOR: Green
 TYPE: A COPY COLOR: White DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 PROJECT ID: R-2417C DIV: 8

SYMBOL	X	Y	WID	HT
M1_4	16.5	67.6	45.4	36

QUANTITY: 1
 SIGN WIDTH: 13'-0"
 HEIGHT: 10'-0"
 TOTAL AREA: 130.0 Sq.Ft.

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

NO. Z BARS: 3 MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH: 148.0

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	59.8
EM 2000	123
E 2000	70.1

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 4B BACKG COLOR: Green
 TYPE: A COPY COLOR: White DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 PROJECT ID: R-2417C DIV: 8

SYMBOL	X	Y	WID	HT
M1_4	17.3	54.1	45.4	36
ARMED	129.2	20.4	22.4	35.3

QUANTITY: 1
 SIGN WIDTH: 14'-6"
 HEIGHT: 9'-0"
 TOTAL AREA: 130.5 Sq.Ft.

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

NO. Z BARS: 3 MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH: 166.0

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	59.9
EM 2000	95.8

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 4A BACKG COLOR: Green
 TYPE: B COPY COLOR: White DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 PROJECT ID: R-2417C DIV: 8

SYMBOL	X	Y	WID	HT
M1_4	16.5	67.6	45.4	36

QUANTITY: 1
 SIGN WIDTH: 10'-0"
 HEIGHT: 2'-6"
 TOTAL AREA: 25.0 Sq.Ft.

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 8"

NO. Z BARS: 2 MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH: 112.0

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	96.6

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

I:\Projects\2009\08-08\N\Projects\2417\CA\Traffic\Signing\CADD\Signing Layout Plans\R2417_Cover.sht.1.dgn
 wmd:brw AT 11/22/09 10:39

TIP NO. R-2417C	SHEET NO. SIGN-21
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 8A,9A,14A BACKG COLOR: Green DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 TYPE: B COPY COLOR: White PROJECT ID: R-2417C DIV: 8

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 9'-6"
 HEIGHT: 2'-6"
 TOTAL AREA: 23.8 Sq.Ft.

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

NO. Z BARS: 2
 LENGTH: 106.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	89.4

12.3	8.9	10.7	3.5	7.5	15	14.7	13.8	15.3	12.3
------	-----	------	-----	-----	----	------	------	------	------

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 14B BACKG COLOR: Green DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 TYPE: A COPY COLOR: White PROJECT ID: R-2417C DIV: 8

SYMBOL	X	Y	WID	HT
ARMED	208.5	55.5	22.4	35.3
WT_4	16	47	45.4	36

SIGN WIDTH: 21'-0"
 HEIGHT: 8'-6"
 TOTAL AREA: 178.6 Sq.Ft.

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

NO. Z BARS: 3
 LENGTH: 244.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	98.6

77.7	10.7	12.8	4.2	9.5	11.5	12.8	12.8	10	12.2	77.7
------	------	------	-----	-----	------	------	------	----	------	------

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 9B BACKG COLOR: Green DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 TYPE: A COPY COLOR: White PROJECT ID: R-2417C DIV: 8

SYMBOL	X	Y	WID	HT
WT_4	17.4	66.7	45.4	36
ARDOWN	81.8	5.7	30	20.6

SIGN WIDTH: 17'-0"
 HEIGHT: 10'-0"
 TOTAL AREA: 170.0 Sq.Ft.

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

NO. Z BARS: 3
 LENGTH: 196.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	70.1
E 2000	36.7
E 2000	47.9

58	22	15	12	4.4	9.2	7.5	75.9
E	X	I	T				
38.3	10.7	12.8	4.2	9	12.8		
O	N	L	Y				
117.8	12.8	12.8	10	12.2	38.3		

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

13-AUG-2009 08:31
 N:\IT\Projects\R2417C\Tr-office\Signing\CADD\Signing Layout Plans\R2417_Cover.sht.dgn
 wmd@brw AT 10:22:1639

TIP NO. R-2417C	SHEET NO. SIGN-22
--------------------	----------------------

APPROVED: _____

DATE: _____

SEAL

SIGN NUMBER: 6B BACKG COLOR: Green
TYPE: A COPY COLOR: White

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
PROJECT ID: R-2417C DIV: 8

QUANTITY: 1

SYMBOL	X	Y	WID	HT
NC242	90	95.3	36	36

SIGN WIDTH: 16'-0"
HEIGHT: 12'-6"
TOTAL AREA: 225.0 Sq.Ft.

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

NO. Z BARS: 4 MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 208.0

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	95.8
EM 2000	183.2
E 2000	70.1

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 10A,11A,12A BACKG COLOR: Green
TYPE: B COPY COLOR: White

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
PROJECT ID: R-2417C DIV: 8

QUANTITY: 3

SYMBOL	X	Y	WID	HT

SIGN WIDTH: 9'-6"
HEIGHT: 2'-6"
TOTAL AREA: 23.8 Sq.Ft.

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0"
RADIUS: 0"

NO. Z BARS: 2 MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 106.0

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	90.8

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 7B BACKG COLOR: Green
TYPE: A COPY COLOR: White

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
PROJECT ID: R-2417C DIV: 8

QUANTITY: 1

SYMBOL	X	Y	WID	HT
W1_4	54.6	81.9	45.4	36
ARMED	154.8	25.9	22.4	35.3

SIGN WIDTH: 16'-6"
HEIGHT: 11'-6"
TOTAL AREA: 189.8 Sq.Ft.

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

NO. Z BARS: 3 MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 190.0

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
EM 2000	95.8
EM 2000	123

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

18-AUG-2009 16:35
 N:\ITP\Projects\18-AUG-2009\Signing\CADD\Signing Layout Plans\R2417_CoverAht_1.dgn
 wmdbrw AT 10:22:28

TIP NO. R-2417C	SHEET NO. SIGN-23
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 10B BACKG COLOR: Green
TYPE: A COPY COLOR: White
QUANTITY: 1

SYMBOL	X	Y	WID	HT
NC241	103.6	69.5	35.8	36

SIGN WIDTH: 14'-0"
HEIGHT: 12'-6"
TOTAL AREA: 175.0 Sq.Ft.

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

NO. Z BARS: 4 MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 160.0

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
PROJECT ID: R-2417C DIV: 8

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	91.5
EM 2000	23.9
E 2000	50.4

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 13B BACKG COLOR: Green
TYPE: A COPY COLOR: White
QUANTITY: 1

SYMBOL	X	Y	WID	HT
W1_4	12.2	66.7	45.4	36
ARROWN	78.8	5.7	30	20.6

SIGN WIDTH: 16'-6"
HEIGHT: 10'-0"
TOTAL AREA: 165.0 Sq.Ft.

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

NO. Z BARS: 3 MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 190.0

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
PROJECT ID: R-2417C DIV: 8

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	61.8
EM 2000	35.3
E 2000	114.8

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 11B,12B BACKG COLOR: Green
TYPE: A COPY COLOR: White
QUANTITY: 2

SYMBOL	X	Y	WID	HT
NC242	112.4	47.1	36	36
ARMED	164.4	19.1	22.4	35.3

SIGN WIDTH: 17'-6"
HEIGHT: 10'-6"
TOTAL AREA: 183.8 Sq.Ft.

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

NO. Z BARS: 3 MAT'L: 0.125" (3.2 mm) ALUMINUM
LENGTH: 202.0

DESIGN BY: WMD CHECKED BY: DATE: Apr 17, 2009
PROJECT ID: R-2417C DIV: 8

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Series/Size	Text Length
E 2000	100.5
EM 2000	25.3

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

I:\AUG-2009_08:09_N:\Projects\R2417C\T-Office\Signing\CAOD\Signing\Layout\Plans\R2417-Coversht.1.dgn

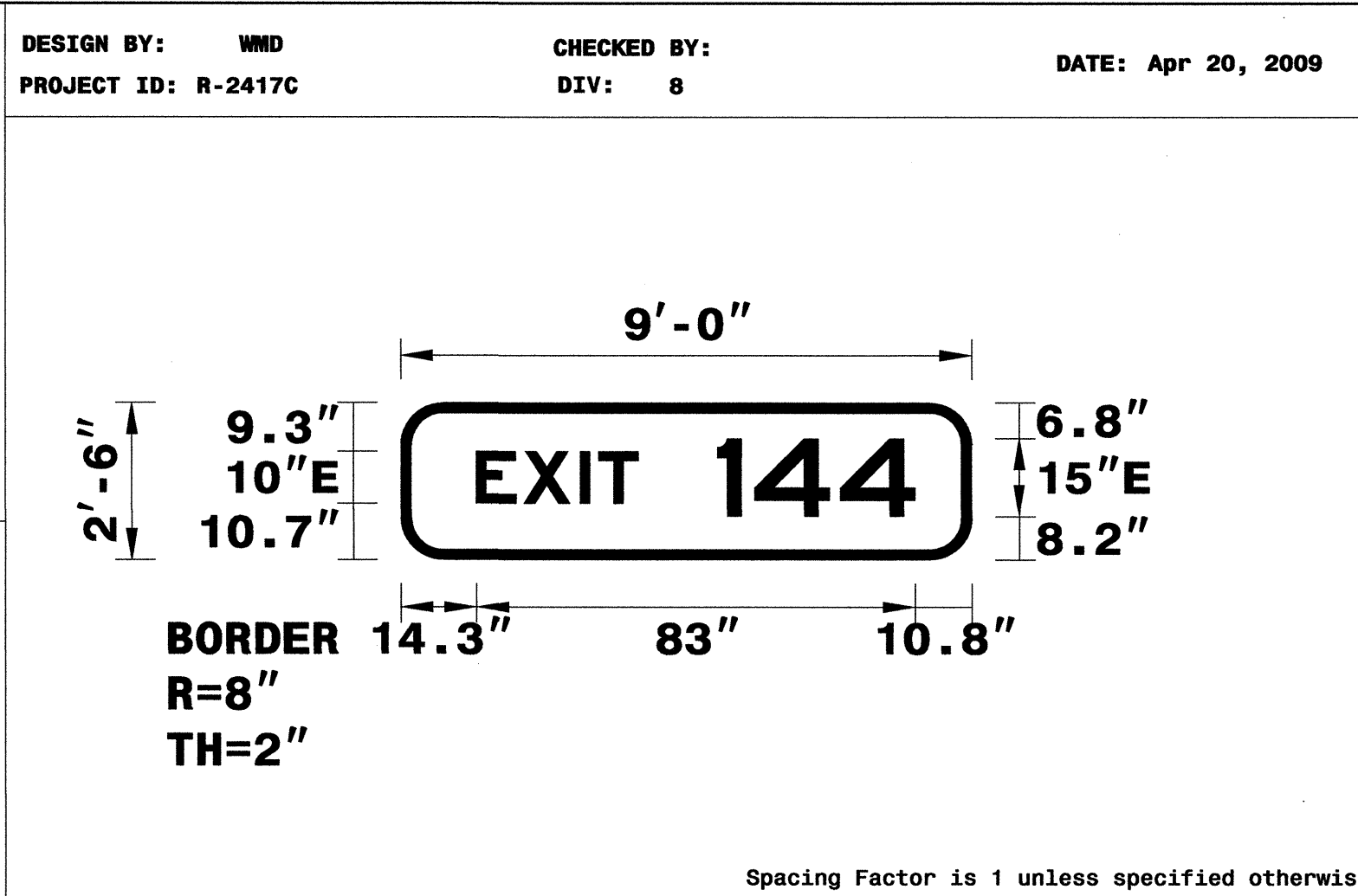
TIP NO. R-2417C	SHEET NO. SIGN-24
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 101A
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 2'-6"
 TOTAL AREA: 22.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 8"
 NO. Z BARS: 2
 LENGTH: 100.0

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT

MAT'L: 0.125" (3.2 mm) ALUMINUM



LETTER POSITIONS

Letter spacings are to start of next letter

Letter	E	X	I	T	1	4	4	10.8	Series/Size
Text Length	14.3	8.9	10.7	3.5	7.5	15	7.1	16.2	E 2000
									83

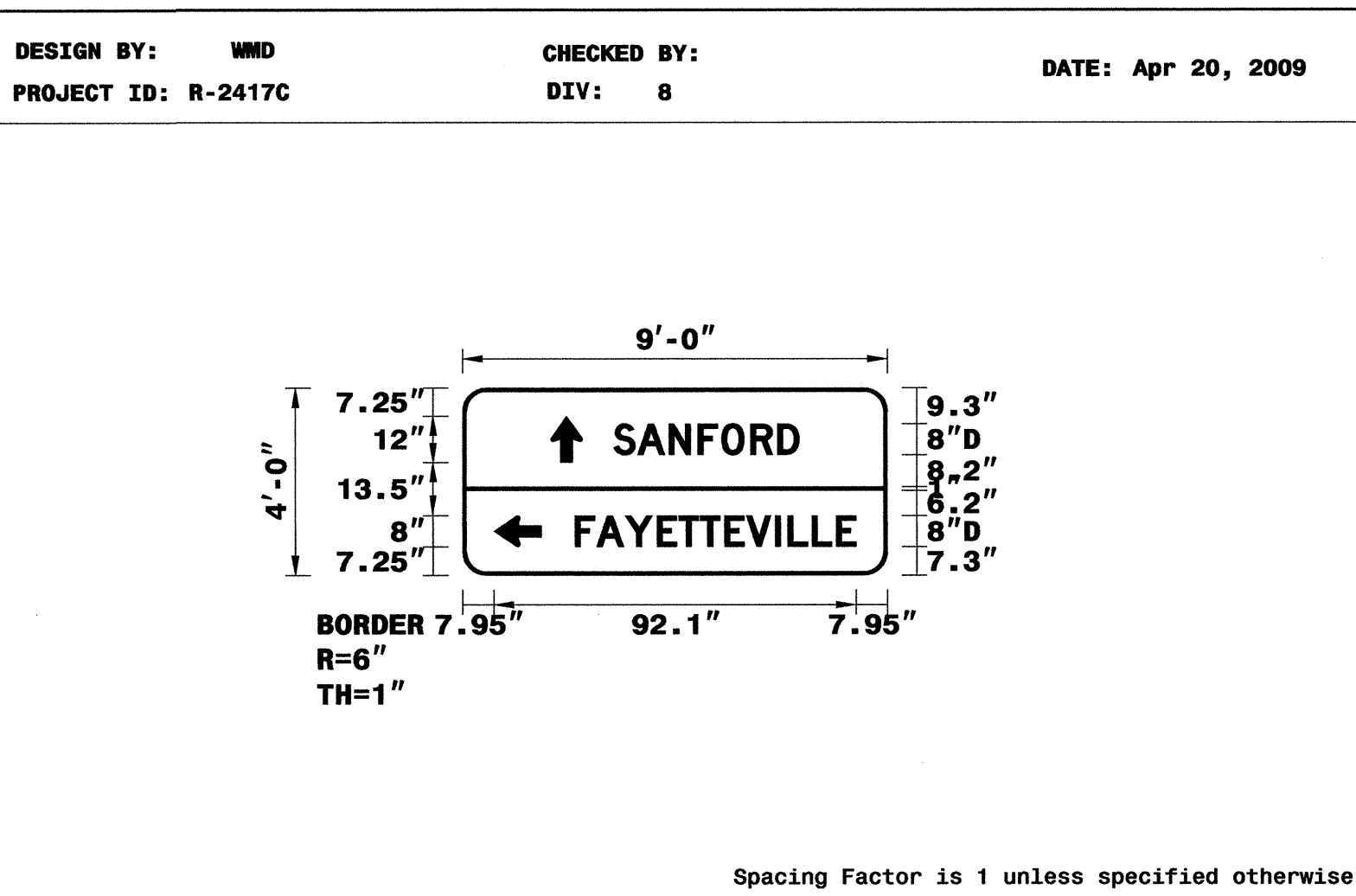
FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 102
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 4'-0"
 TOTAL AREA: 36.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 100.0

BACKG COLOR: Green/Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARUP	22.4	28.8	8	12
ARUP	8	7.3	8	12

MAT'L: 0.125" (3.2 mm) ALUMINUM



LETTER POSITIONS

Letter spacings are to start of next letter

Letter	S	A	N	F	O	R	D	22.4	Series/Size
Text Length	38.4	6.1	8	7.4	6	7.4	6.8	5.4	D 2000
									47.1
									D 2000
									71.4

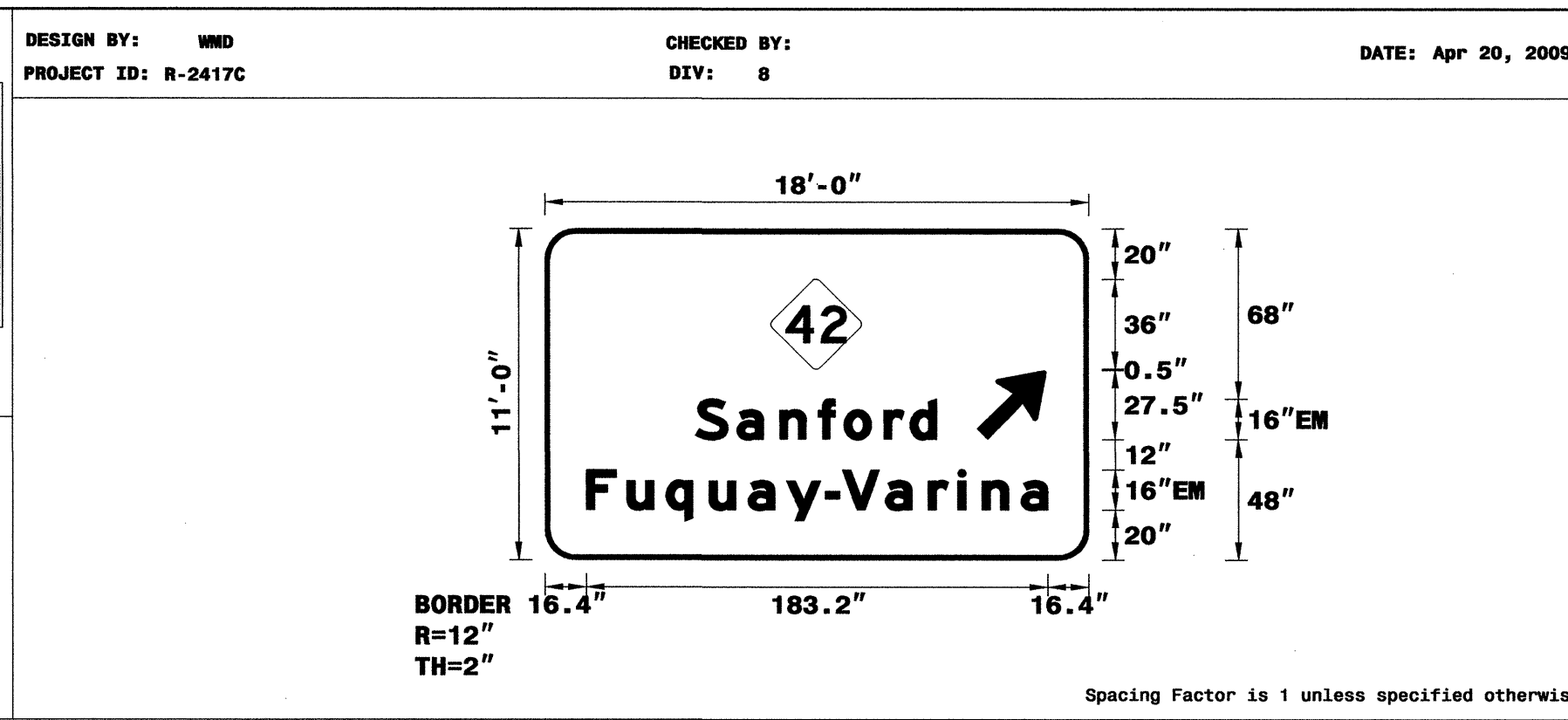
FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 101B
 TYPE: A
 QUANTITY: 1
 SIGN WIDTH: 18'-0"
 HEIGHT: 11'-0"
 TOTAL AREA: 198.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 3
 LENGTH: 208.0

BACKG COLOR: Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
NC242	89.6	76	36	36
ARMED	171.5	48	22.4	35.3

MAT'L: 0.125" (3.2 mm) ALUMINUM



LETTER POSITIONS

Letter spacings are to start of next letter

Letter	S	a	n	f	o	r	d	60.5	Series/Size
Text Length	59.7	16.5	17	15.4	10.2	15.8	10.4	10.6	EM 2000
									95.8
									EM 2000
									183.2

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

13-AUG-2009 08:40
 N:\ITP\Projects\13-AUG-2009\Traffic\Signing\CADD\Signing Layout Plans\R2417_Cover.sht.1.dgn
 wmdbrw AT 10:22:16 AM

TIP NO. R-2417C	SHEET NO. SIGN-25
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APPROVED: _____
DATE: _____
SEAL

SIGN NUMBER: 103
TYPE: B
QUANTITY: 1
SIGN WIDTH: 9'-0"
HEIGHT: 4'-0"
TOTAL AREA: 36.0 Sq.Ft.

BACKG COLOR: Green/Green
COPY COLOR: White

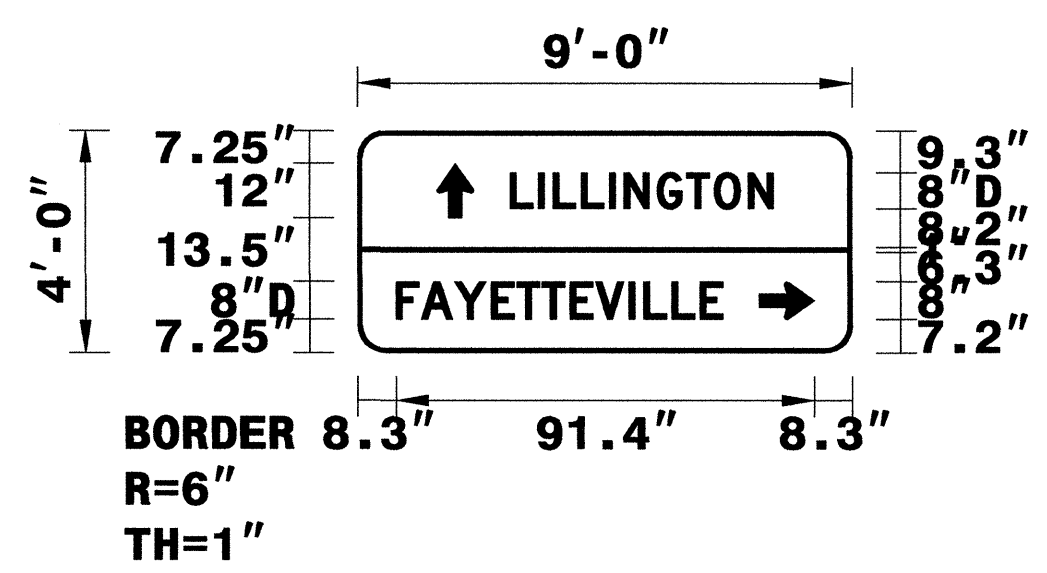
SYMBOL	X	Y	WID	HT
ARUP	17.3	28.8	8	12
ARUP	87.7	7.2	8	12

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADII: 6"

NO. Z BARS: 2
LENGTH: 100.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY:
DIV: 8
DATE: Apr 20, 2009



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter													Series/Size Text Length	
	L	I	L	L	I	N	G	T	O	N			D 2000	
33.3	6.2	3.2	6.2	6.2	3.2	7.2	6.5	6	7.4	5.4	17.3		57.4	
	F	A	Y	E	T	T	E	V	I	L	L	E	D 2000	
8.3	5.4	7.3	8.1	5.6	5.4	6.2	5.6	7.3	3.2	6.2	6.2	5	28.3	71.4

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 104B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 13'-0"
HEIGHT: 12'-6"
TOTAL AREA: 162.5 Sq.Ft.

BACKG COLOR: Green
COPY COLOR: White

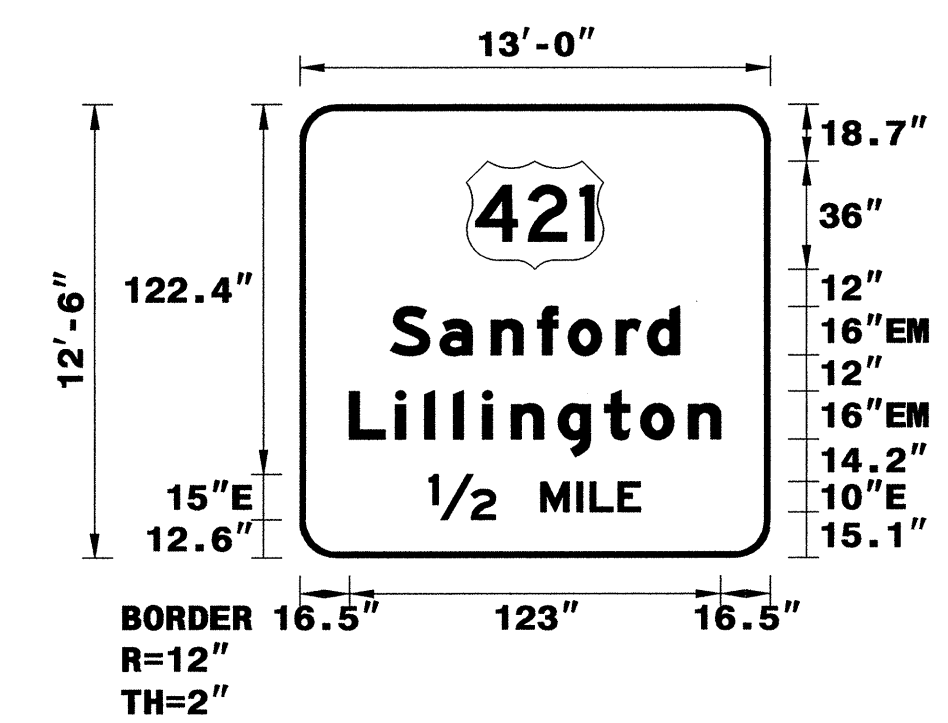
SYMBOL	X	Y	WID	HT
M1_4	55.3	95.4	45.4	36

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

NO. Z BARS: 4
LENGTH: 148.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY:
DIV: 8
DATE: Apr 20, 2009



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter													Series/Size Text Length
	S	a	n	f	o	r	d						EM 2000
30.1	16.5	17	15.4	10.2	15.8	10.4	10.6	30.1					95.8
	L	i	l	l	i	n	g	t	o	n			EM 2000
16.5	15.4	9.6	9.6	9.6	15.5	15.4	12	15.8	10.6	16.5			123
	1/2	M	I	L	E								E 2000
43	22	15	12	4.4	9.2	7.5	43						70.1

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 104A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 9'-0"
HEIGHT: 2'-6"
TOTAL AREA: 22.5 Sq.Ft.

BACKG COLOR: Green
COPY COLOR: White

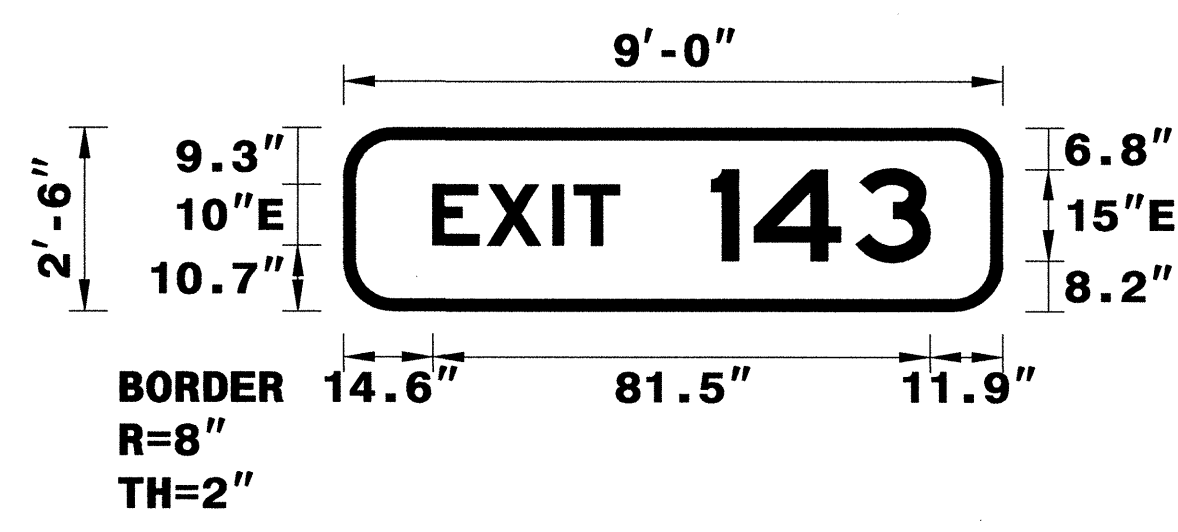
SYMBOL	X	Y	WID	HT
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BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 8"

NO. Z BARS: 2
LENGTH: 100.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY:
DIV: 8
DATE: Apr 20, 2009



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter											Series/Size Text Length
	E	X	I	T		1	4	3			E 2000
14.6	8.9	10.7	3.5	7.5	15	7	16.6	12.2	11.9		81.5

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

I:\2-AUG-2009_08H\N:\Projects\2417\Tr-efric\Signing\CADD\Signing Layout Plans\2417_Coversht.dgn
wmd@brax AT 10:22:16 AM

TIP NO. R-2417C	SHEET NO. SIGN-26
APPROVED: _____	
DATE: _____	
SEAL	

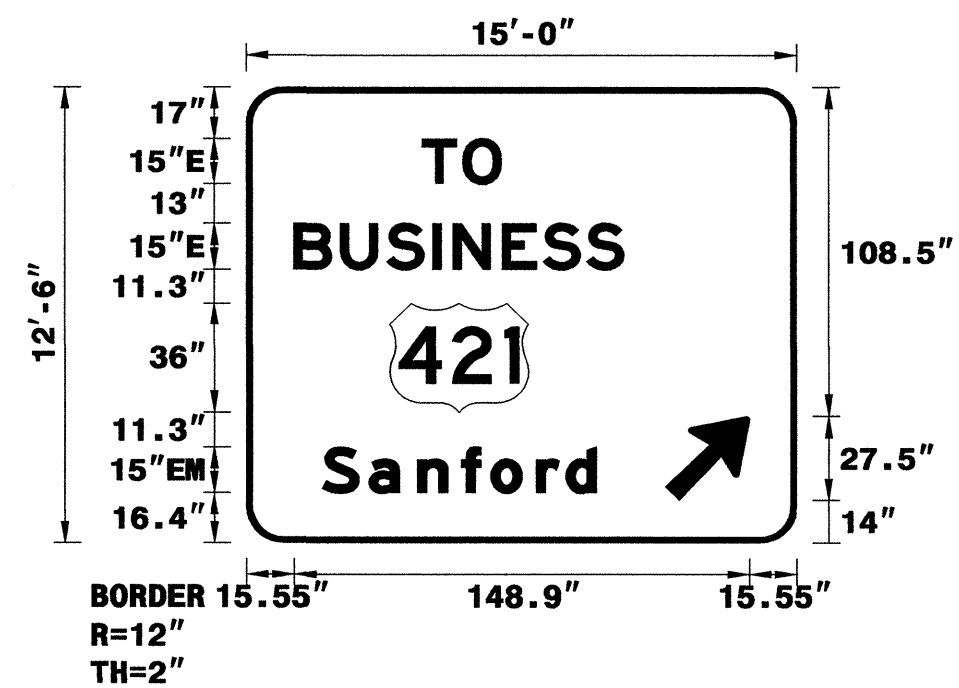
SIGN NUMBER: 105
TYPE: A
QUANTITY: 1
SIGN WIDTH: 15'-0"
HEIGHT: 12'-6"
TOTAL AREA: 187.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"
NO. Z BARS: 4
LENGTH: 172.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	46.8	42.7	45.4	36
ARMED	137	14	22.4	35.3

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY:
DIV: 8
DATE: Apr 20, 2009



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size Text Length
T	O									E 2000
57.5	13.4	12.6	96.6							26
B	U	S	I	N	E	S	S			E 2000
15.5	15.2	15.1	15.1	6.6	16	13.4	14.2	12.2	56.6	107.9
S	a	n	f	o	r	d				EM 2000
24.5	15.5	15.9	14.4	9.6	14.8	9.8	9.9	65.6		89.9

FILENAME: 2417C

NORTH CAROLINA D.O.T. SIGN DETAIL

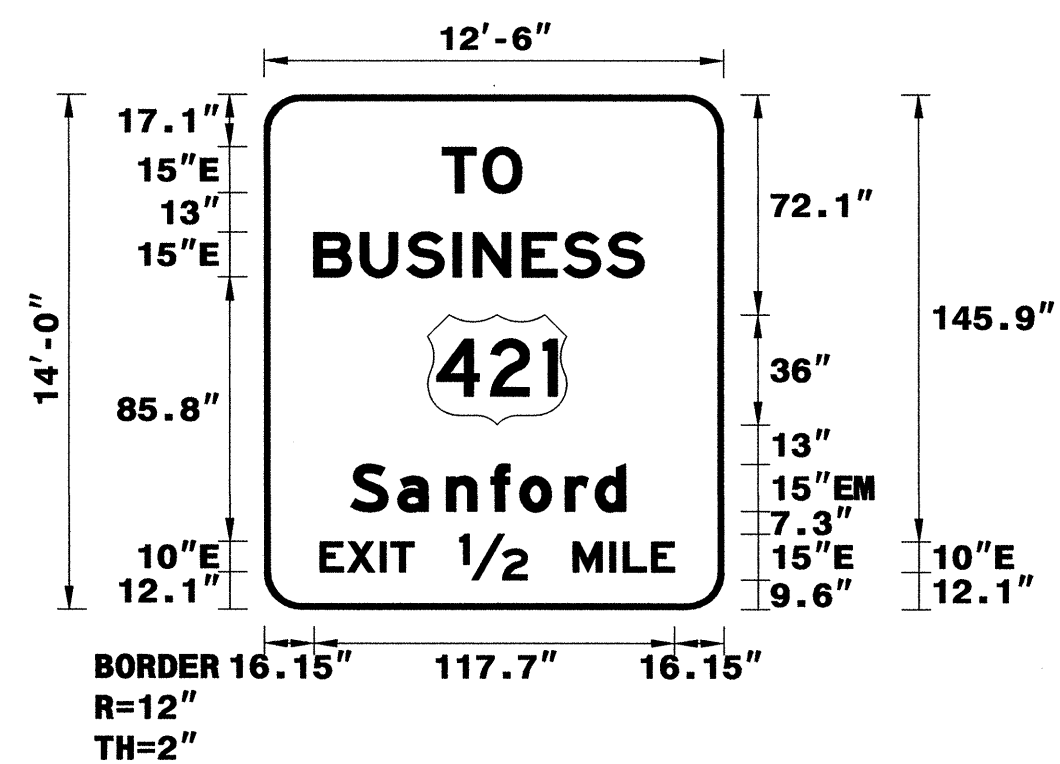
SIGN NUMBER: 106
TYPE: A
QUANTITY: 1
SIGN WIDTH: 12'-6"
HEIGHT: 14'-0"
TOTAL AREA: 175.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"
NO. Z BARS: 0
LENGTH: 142.0

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	53.3	59.9	45.4	36

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY:
DIV: 8
DATE: Apr 20, 2009



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size Text Length			
T	O									E 2000			
58.1	13.3	12.6	66							26			
B	U	S	I	N	E	S	S			E 2000			
16.2	15.1	15.1	15.1	6.6	16	13.3	14.3	12.2	26	107.9			
S	a	n	f	o	r	d				EM 2000			
28.1	15.4	15.9	14.4	9.6	14.9	9.7	9.9	32.1		89.9			
E	X	I	T		1/2		M	I	L	E	E 2000		
18.2	8.9	10.7	3.5	7.5	15	22	15	12	4.4	9.2	7.5	16.2	115.7

FILENAME: 2417C

NORTH CAROLINA D.O.T. SIGN DETAIL

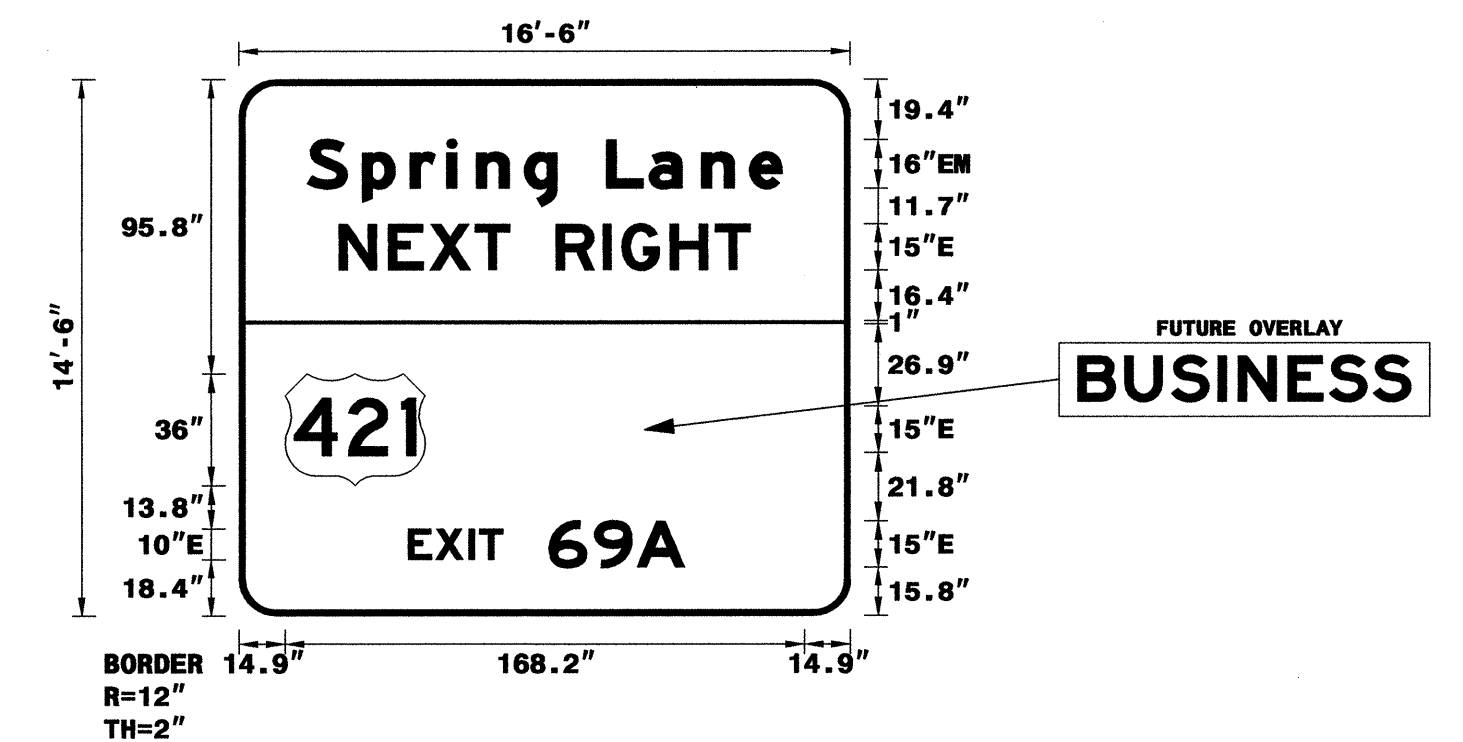
SIGN NUMBER: 107
TYPE: A
QUANTITY: 1
SIGN WIDTH: 16'-6"
HEIGHT: 14'-6"
TOTAL AREA: 239.3 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"
NO. Z BARS: 0
LENGTH: 190.0

BACKG COLOR: Green/Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
M1_4	14.9	42.2	45.4	36

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY:
DIV: 8
DATE: Apr 20, 2009



Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter										Series/Size Text Length			
S	p	r	i	n	g	L	a	n	e	EM 2000			
22	17.9	15.5	11.8	9.6	15.5	10.6	16	13.9	17	15.5	10.6	22	153.9
N	E	X	T	R	I	G	H	T					E 2000
32.4	16.1	13.3	14.7	11.2	15	15.2	6.2	15.6	14.7	11.3	32.4		133.2
E	X	I	T			6	9	A					E 2000
54.8	8.9	10.7	3.5	7.5	15	14.7	13.8	15.3	53.8				89.4

FILENAME: 2417C

NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

13-AUG-2009 08:11
N:\TIP\Project\3-R-2417C\Traffic\Signing\CADD\Signing Layout Plans\R2417C\Coversht-1.dgn
wmd@ncdot.gov AT 10:02:21 09

TIP NO. R-2417C	SHEET NO. SIGN-28
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 109B
TYPE: A
QUANTITY: 1
SIGN WIDTH: 17'-0"
HEIGHT: 8'-0"
TOTAL AREA: 136.0 Sq.Ft.

BACKG COLOR: Green
COPY COLOR: White

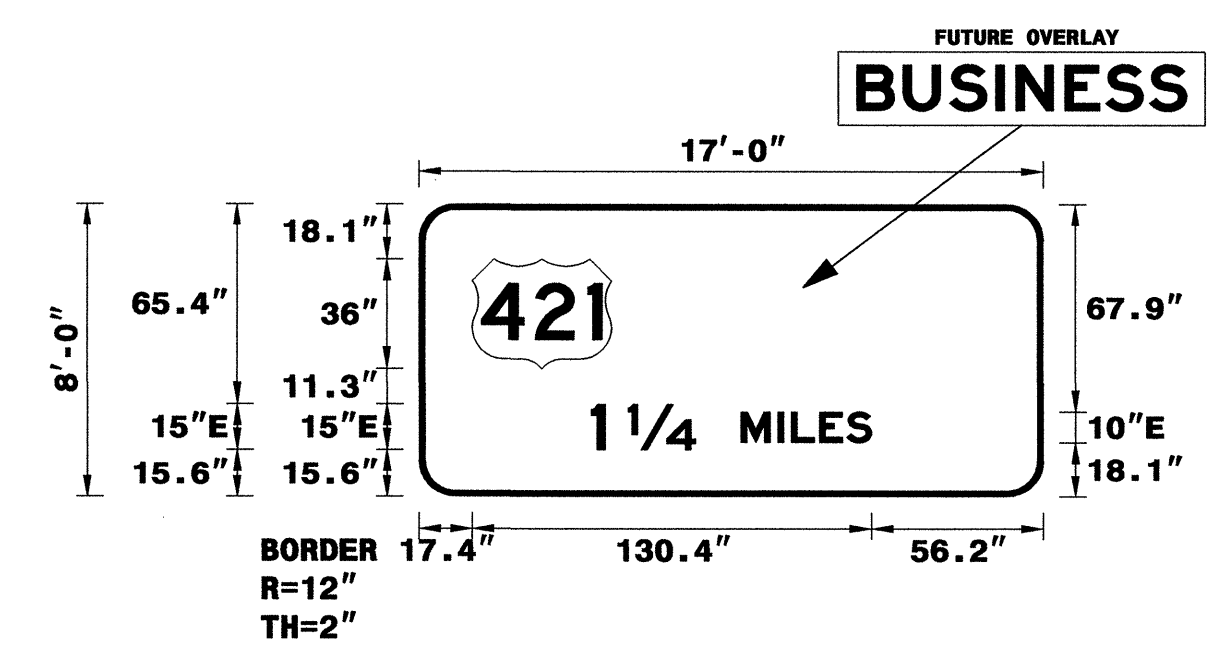
SYMBOL	X	Y	WID	HT
M1_4	17.4	41.9	45.4	36

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

NO. Z BARS: 3
LENGTH: 196.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY:
DIV: 8
DATE: Apr 20, 2009



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter											Series/Size Text Length
56.2	4.5	7.5	22	15	12	4.4	9.2	8.9	8.1	56.2	E 2000
											91.6

FILENAME: 2417C
NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 7A
TYPE: B
QUANTITY: 1
SIGN WIDTH: 9'-0"
HEIGHT: 2'-6"
TOTAL AREA: 22.5 Sq.Ft.

BACKG COLOR: Green
COPY COLOR: White

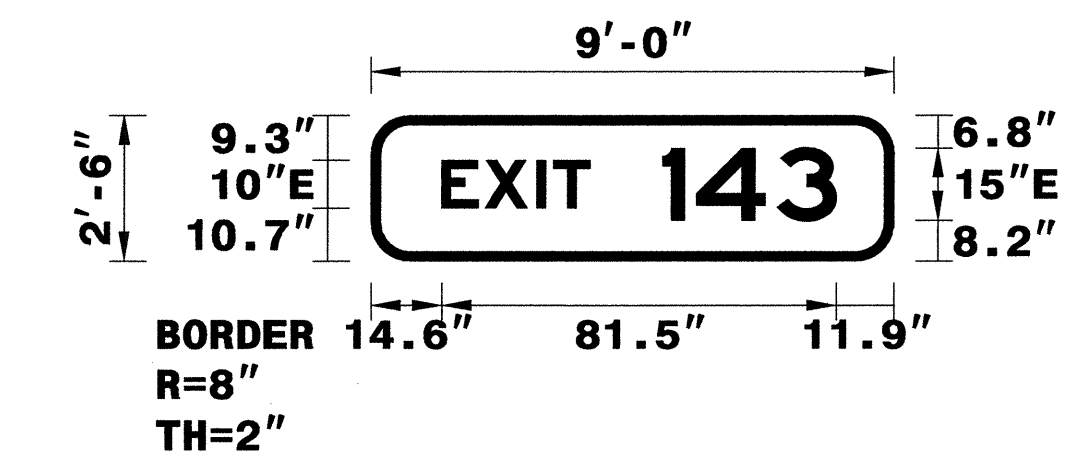
SYMBOL	X	Y	WID	HT

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 8"

NO. Z BARS: 2
LENGTH: 100.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY:
DIV: 8
DATE: Apr 20, 2009



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter											Series/Size Text Length
14.6	8.9	10.7	3.5	7.5	15	7	16.7	12.2	11.9		E 2000
											81.5

FILENAME: 2417C
NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 8
TYPE: A
QUANTITY: 1
SIGN WIDTH: 13'-6"
HEIGHT: 17'-0"
TOTAL AREA: 229.5 Sq.Ft.

BACKG COLOR: Green
COPY COLOR: White

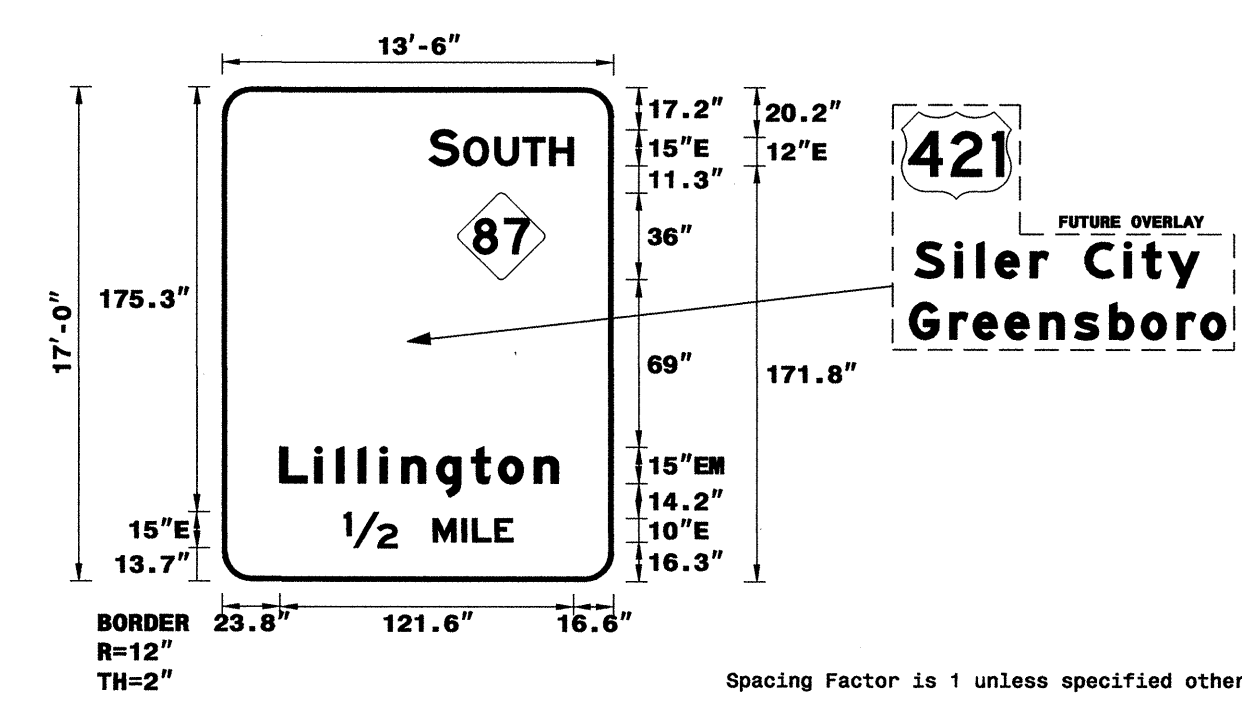
SYMBOL	X	Y	WID	HT
NC242	97.5	124.5	36	36

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

NO. Z BARS: 6
LENGTH: 154.0

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY:
DIV: 8
DATE: Apr 20, 2009



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter											Series/Size Text Length
85.7	12.2	2.2	12.8	11.8	11	9.7	16.6				E 2000
											59.8
23.8	14.4	9	9	9	14.6	14.4	11.3	14.9	9.9	22.8	EM 2000
											115.4
50.3	22	15	12	4.4	9.2	7.5	41.6				E 2000
											70.1

FILENAME: 2417C
NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

TIP NO. R-2417C	SHEET NO. SIGN-29
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 201,202 BACKG COLOR: Green
 TYPE: A COPY COLOR: White

QUANTITY: 2

SIGN WIDTH: 7'-6"
 HEIGHT: 5'-0"
 TOTAL AREA: 37.5 Sq.Ft.

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1.5"
 RADII: 6"

NO. Z BARS: 2
 LENGTH: 82.0

DESIGN BY: WMD CHECKED BY:
 PROJECT ID: R-2417C DIV: 8 DATE: Feb 25, 2009

SYMBOL	X	Y	WID	HT
ARMED	61	6	18.8	29.5

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter							Series/Size Text Length
	E	X	I	T			EM 2000
	30.2	10.6	13	4.6	8.9	22.8	37
	1	4	4				D 2000
	13.4	5.8	13.4	11.3	46.2		30.5

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 204 BACKG COLOR: Green
 TYPE: A COPY COLOR: White

QUANTITY: 1

SIGN WIDTH: 9'-0"
 HEIGHT: 5'-0"
 TOTAL AREA: 45.0 Sq.Ft.

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1.5"
 RADII: 8"

NO. Z BARS: 2
 LENGTH: 100.0

DESIGN BY: WMD CHECKED BY:
 PROJECT ID: R-2417C DIV: 8 DATE: Mar 04, 2009

SYMBOL	X	Y	WID	HT
ARMED	71	8.1	18.8	29.5

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter							Series/Size Text Length
	E	X	I	T			EM 2000
	33.3	10.6	13	4.6	8.9	37.8	37
	1	4	3	A			D 2000
	14	5.9	15.8	12.2	12.8	47.5	46.5

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 203 BACKG COLOR: Green
 TYPE: A COPY COLOR: White

QUANTITY: 1

SIGN WIDTH: 9'-0"
 HEIGHT: 5'-0"
 TOTAL AREA: 45.0 Sq.Ft.

BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1.5"
 RADII: 8"

NO. Z BARS: 2
 LENGTH: 100.0

DESIGN BY: WMD CHECKED BY:
 PROJECT ID: R-2417C DIV: 8 DATE: Feb 26, 2009

SYMBOL	X	Y	WID	HT
ARMED	71	8.1	18.8	29.5

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter							Series/Size Text Length
	E	X	I	T			EM 2000
	33.3	10.6	13	4.6	8.9	37.8	37
	1	4	3	B			D 2000
	14	5.9	15.8	13.5	10.2	48.7	45.3

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

13-AUG-2009 08:31
 N:\IT\Projects\2417C\Traffic\Signing\Layout Plans\R2417_Cover.sht.dgn
 wmd:brw AT 10:22:16

TIP NO. R-2417C	SHEET NO. SIGN-30A
APPROVED: _____	
DATE: _____	
SEAL	

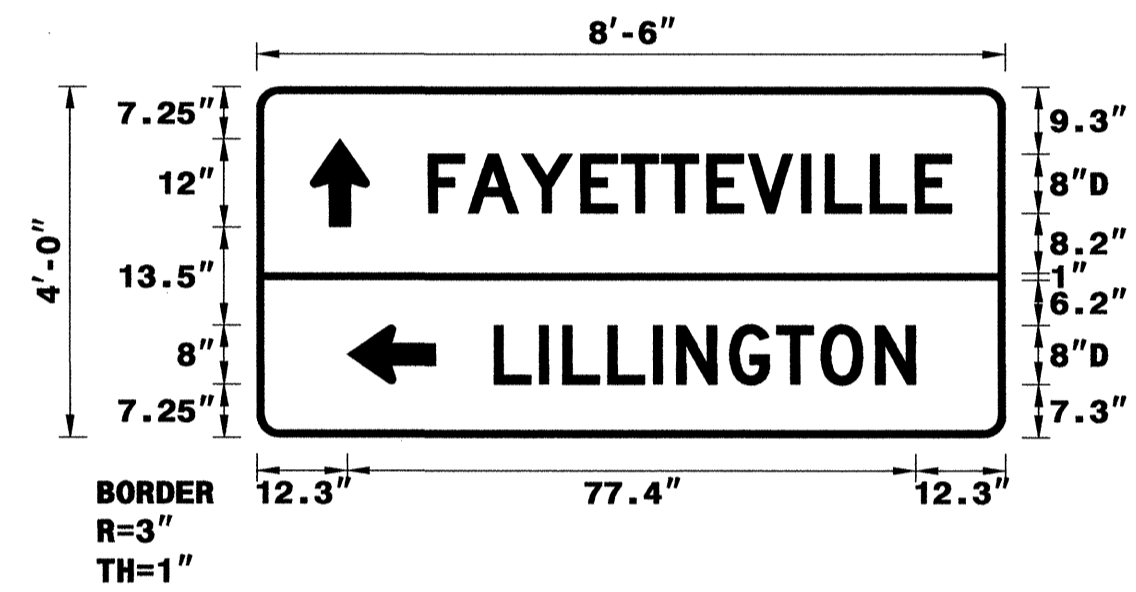
SIGN NUMBER: 110
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 8'-6"
 HEIGHT: 4'-0"
 TOTAL AREA: 34.0 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 94.0

BACKG COLOR: Green/Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARUP	7.3	28.8	8	12
ARUP	12.3	7.3	8	12

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
 CHECKED BY:
 PROJECT ID: R-2417C
 DIV: 8
 DATE: Apr 21, 2009



- USE NOTES: 1,2,3,4
- Legend and border shall be direct applied Grade B sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 - 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	
	F	A	Y	E	T	T	E	V	I	L	L	E		D 2000
	23.3	5.4	7.3	8.1	5.6	5.4	6.2	5.6	7.3	3.2	6.2	6.2	5	7.3
														71.4
	L	I	L	L	I	N	G	T	O	N				D 2000
	32.3	6.2	3.2	6.2	6.2	3.2	7.2	6.5	6	7.4	5.4	12.3		57.4

FILENAME: 2417c NORTH CAROLINA D.O.T. SIGN DETAIL

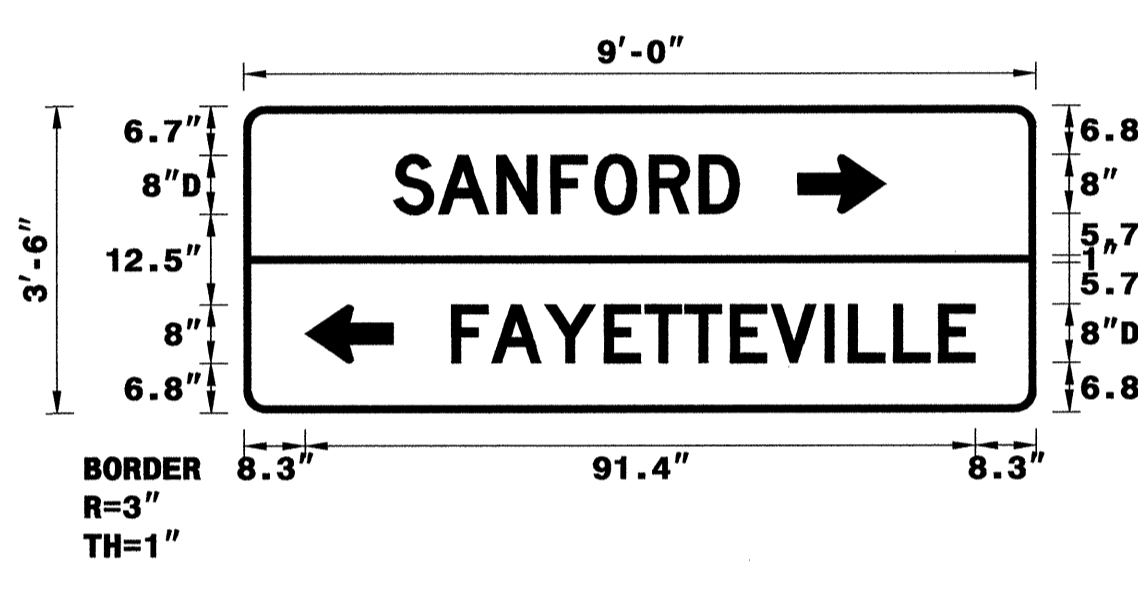
SIGN NUMBER: 111
 TYPE: B
 QUANTITY: 1
 SIGN WIDTH: 9'-0"
 HEIGHT: 3'-6"
 TOTAL AREA: 31.5 Sq.Ft.
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 3"
 NO. Z BARS: 2
 LENGTH: 100.0

BACKG COLOR: Green/Green
 COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARUP	75.6	27.3	8	12
ARUP	8.3	6.8	8	12

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
 CHECKED BY:
 PROJECT ID: 2417-C
 DIV: 8
 DATE: Apr 21, 2009



- USE NOTES: 1,2,3,4
- Legend and border shall be direct applied Grade B sheeting.
 - Background shall be Grade C reflective sheeting.
 - Shields shall be on 0.032" (0.8mm) aluminum and demountable.
 - 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	
	S	A	N	F	O	R	D							D 2000
	20.4	6.1	8	7.4	6	7.4	6.8	5.4	40.4					47.1
														71.4
	F	A	Y	E	T	T	E	V	I	L	L	E		D 2000
	28.3	5.4	7.3	8.1	5.6	5.4	6.2	5.6	7.3	3.2	6.2	6.2	5	8.3

FILENAME: 2417c NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "A" & "B" SIGNS

18-AUG-2009 16:41
 N:\TIP\Projects\2417\Traffic\Signing\CADD\Signing Layout Plans\R2417_Cover.sht.dgn
 wmd@pew AT 10:22:26

TIP NO. R-2417C	SHEET NO. SIGN-31
APPROVED: _____	
DATE: _____	
SEAL	

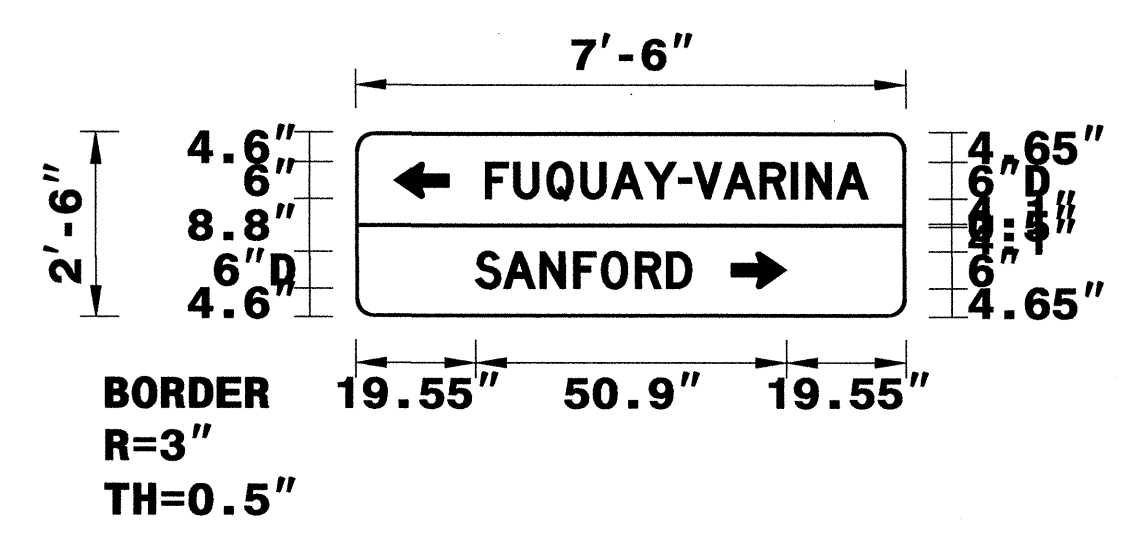
SIGN NUMBER: 301
TYPE: D
QUANTITY: 1
SIGN WIDTH: 7'-6"
HEIGHT: 2'-6"
TOTAL AREA: 18.8 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.5"
RADII: 3"
NO. Z BARS: _____
LENGTH: _____

BACKG COLOR: Green/Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARUP	6.2	19.4	6	9
ARUP	61.4	4.6	6	9

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY: _____
DIV: 8
DATE: Apr 20, 2009



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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	F	U	Q	U	A	Y	-	V	A	R	I	N	A		Series/Size Text Length
	21.2	4.6	5.4	5.6	5	5.5	2.5	4.9	6	5.1	2.4	5	5.1	6.2	D 2000 62.5
	19.6	4.6	6	5.5	4.5	5.6	5.1	4.1	35.1						D 2000 35.3

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

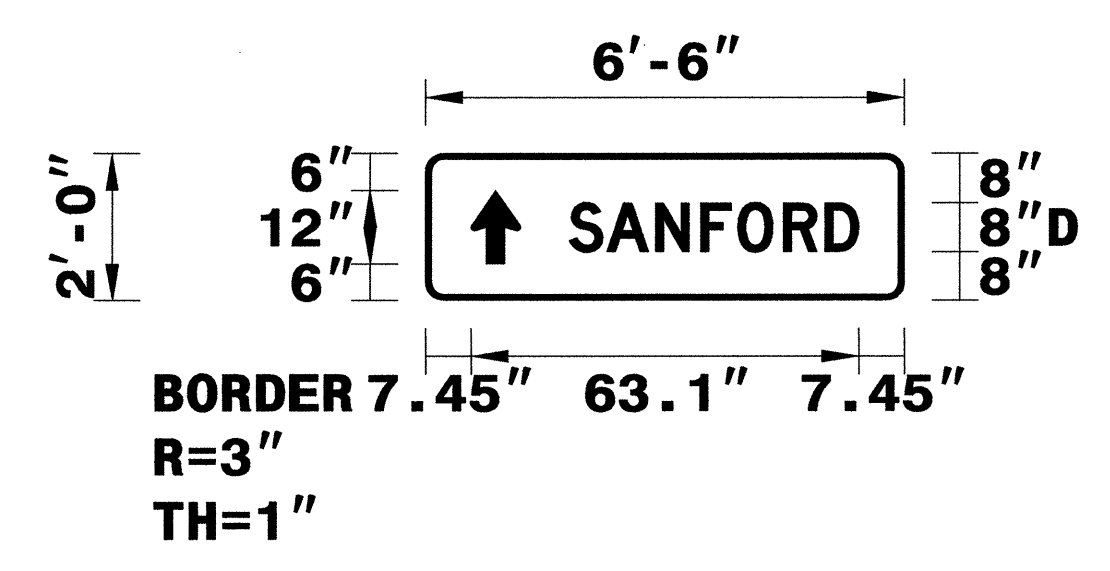
SIGN NUMBER: 303
TYPE: D
QUANTITY: 1
SIGN WIDTH: 6'-6"
HEIGHT: 2'-0"
TOTAL AREA: 13.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADII: 3"
NO. Z BARS: _____
LENGTH: _____

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARUP	7.4	6	8	12

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY: _____
DIV: 8
DATE: Apr 20, 2009



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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	S	A	N	F	O	R	D		Series/Size Text Length	
	23.4	6.1	8	7.4	6	7.4	6.8	5.4	7.4	D 2000 47.1

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

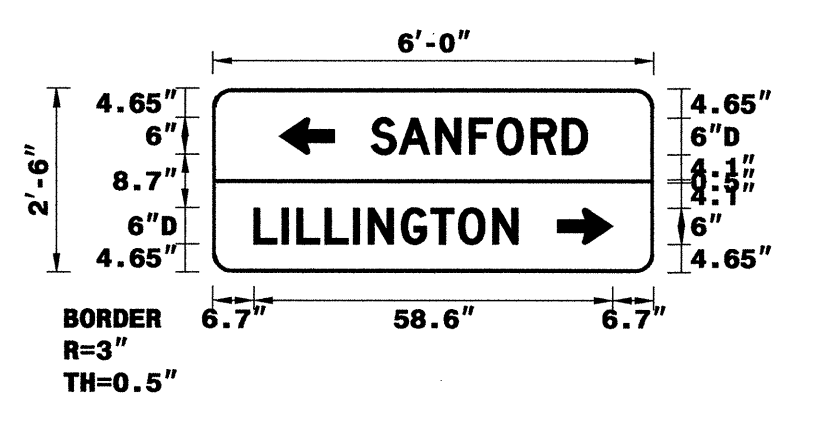
SIGN NUMBER: 302
TYPE: D
QUANTITY: 1
SIGN WIDTH: 6'-0"
HEIGHT: 2'-6"
TOTAL AREA: 15.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.5"
RADII: 3"
NO. Z BARS: _____
LENGTH: _____

BACKG COLOR: Green/Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARUP	10.8	19.4	6	9
ARUP	56.3	4.6	6	9

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C
CHECKED BY: _____
DIV: 8
DATE: Apr 20, 2009



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

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

	S	A	N	F	O	R	D		Series/Size Text Length				
	25.8	4.6	6	5.5	4.5	5.6	5.1	10.8	D 2000 35.3				
	6.7	4.6	2.4	4.6	4.6	2.4	5.4	4.9	4.5	5.6	4.1	22.2	D 2000 43.1

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "D" SIGNS

I:\AUG-2009 08:32 N:\TIP\Projects\2417\Sign\Office\Signing\CADD\Signing Layout Plans\R2417_Cover.sht.dgn wmd\brewh AT TECC221839

TIP NO. R-2417C	SHEET NO. SIGN-32
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 304
TYPE: D
QUANTITY: 1
SIGN WIDTH: 7'-6"
HEIGHT: 2'-0"
TOTAL AREA: 15.0 Sq.Ft.

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARUP	8.3	6	8	12

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1"
RADIUS: 3"

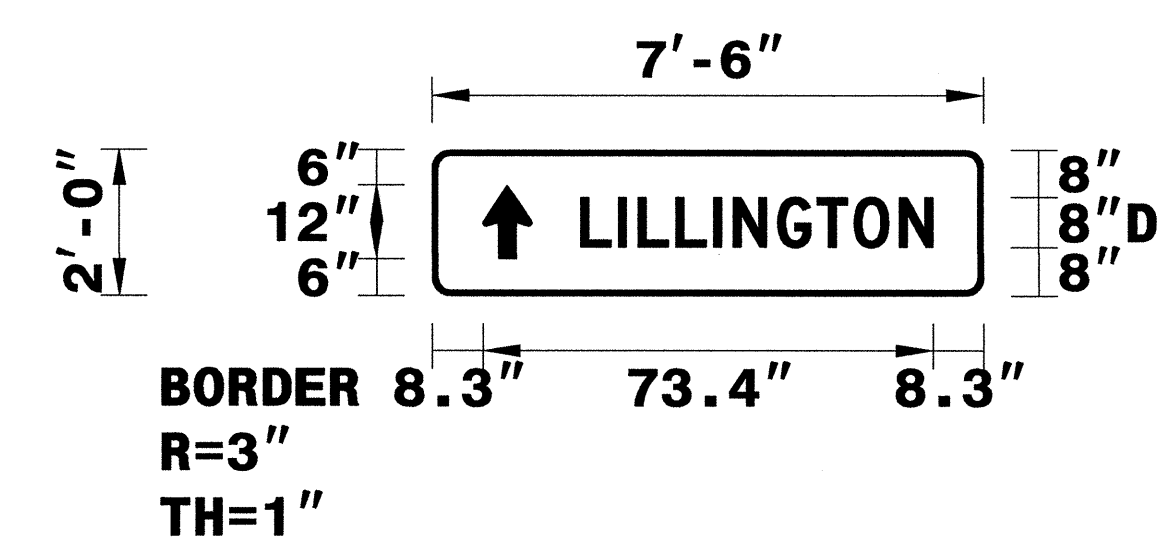
NO. Z BARS: _____
LENGTH: _____

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C

CHECKED BY: _____
DIV: 8

DATE: Apr 20, 2009



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter												Series/Size Text Length
L	I	L	L	I	N	G	T	O	N			D 2000
24.3	6.2	3.2	6.2	6.2	3.2	7.2	6.5	6	7.4	5.4	8.3	57.4

FILENAME: 2417C

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 306
TYPE: D
QUANTITY: 1
SIGN WIDTH: 7'-0"
HEIGHT: 2'-6"
TOTAL AREA: 17.5 Sq.Ft.

BACKG COLOR: Green/Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARUP	16.8	19.4	6	9
ARUP	67.5	4.6	6	9

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.5"
RADIUS: 3"

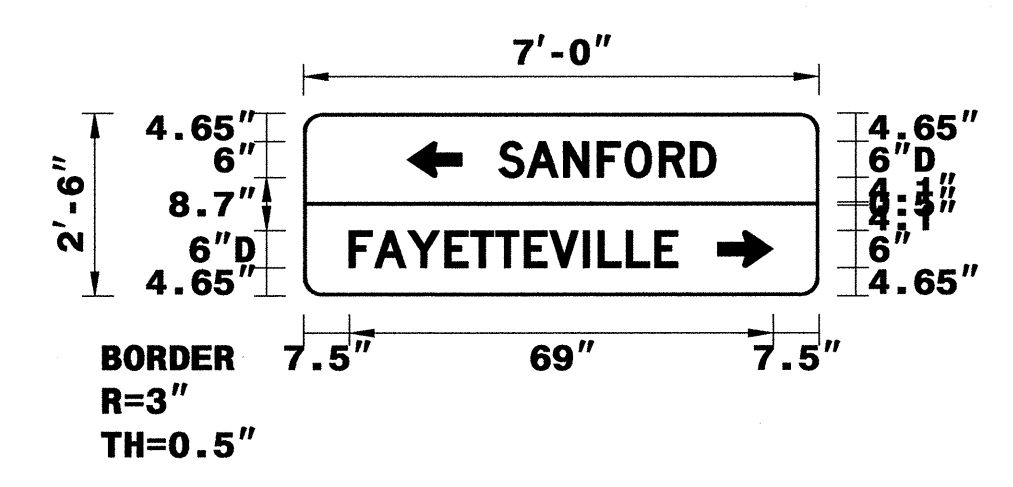
NO. Z BARS: _____
LENGTH: _____

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C

CHECKED BY: _____
DIV: 8

DATE: Apr 03, 2009



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter													Series/Size Text Length	
S	A	N	F	O	R	D							D 2000	
31.8	4.6	6	5.5	4.5	5.6	5.1	4.1	16.8					35.3	
F	A	Y	E	T	T	E	V	I	L	L	E		D 2000	
7.5	4.1	5.5	6.1	4.2	4.1	4.6	4.2	5.5	2.4	4.6	4.6	3.7	23	59.5

FILENAME: 2417C

NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 305
TYPE: D
QUANTITY: 1
SIGN WIDTH: 6'-0"
HEIGHT: 1'-6"
TOTAL AREA: 9.0 Sq.Ft.

BACKG COLOR: Green
COPY COLOR: White

SYMBOL	X	Y	WID	HT
ARUP	7	6	6	9

BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.5"
RADIUS: 3"

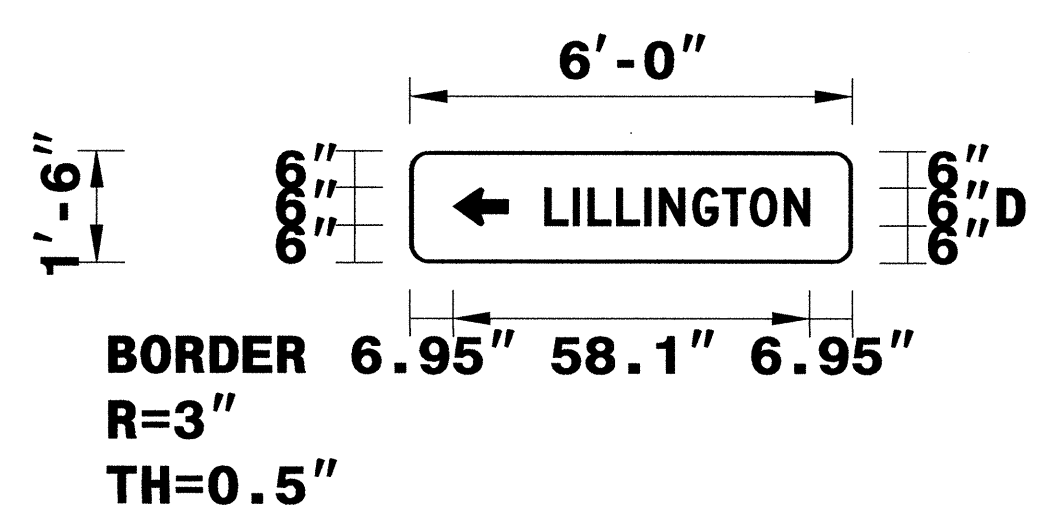
NO. Z BARS: _____
LENGTH: _____

MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: WMD
PROJECT ID: R-2417C

CHECKED BY: _____
DIV: 8

DATE: Apr 20, 2009



USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter												Series/Size Text Length
L	I	L	L	I	N	G	T	O	N			D 2000
22	4.6	2.4	4.6	4.6	2.4	5.4	4.9	4.5	5.6	4.1	7	43.1

FILENAME: 2417C

NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "D" SIGNS

13-AUG-2009 08:32
 N:\VPP\Projects\13-R2417\Signing\CADD\Signing Layout Plans\R2417_Cover.sht.dgn
 wmdbrw AT 10:22:28

TIP NO. R-2417C	SHEET NO. SIGN-33
APPROVED: _____	
DATE: _____	
SEAL	

SIGN NUMBER: 601,602,603 BACKG COLOR: White
 TYPE: D COPY COLOR: White
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
	0	0	48	10

SIGN WIDTH: 4'-0"
 HEIGHT: 0'-10"
 TOTAL AREA: 3.3 Sq.Ft.

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

NO. Z BARS: MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH:

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 PROJECT ID: R-2417C DIV: 8

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade B sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade B sheeting.

* M.U.T.C.D. 2003 Edition Content

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter								Series/Size Text Length
	N		O	R	T	H		E 2000
4.4	6.5	3.2	8.6	7.4	7.4	6.5	4.2	39.4

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 702 BACKG COLOR: Green
 TYPE: D COPY COLOR: White
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
	0	0	48	42

SIGN WIDTH: 4'-0"
 HEIGHT: 3'-6"
 TOTAL AREA: 14.0 Sq.Ft.

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

NO. Z BARS: MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH:

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 PROJECT ID: R-2417C DIV: 8

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter spacings are to start of next letter

Letter spacings are to start of next letter								Series/Size Text Length

FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 701 BACKG COLOR: Green
 TYPE: D COPY COLOR: White
 QUANTITY: 1

SYMBOL	X	Y	WID	HT
	0	0	48	42

SIGN WIDTH: 4'-0"
 HEIGHT: 3'-6"
 TOTAL AREA: 14.0 Sq.Ft.

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

NO. Z BARS: MAT'L: 0.125" (3.2 mm) ALUMINUM
 LENGTH:

DESIGN BY: WMD CHECKED BY: DATE: Apr 20, 2009
 PROJECT ID: R-2417C DIV: 8

USE NOTES: 1,2,3,4

- Legend and border shall be direct applied Grade A sheeting.
- Background shall be Grade C reflective sheeting.
- Shields shall be on 0.032" (0.8mm) aluminum and demountable.
- Shields shall be Grade A sheeting.
- Bottom panel shall be yellow Grade C sheeting. Legend shall be direct applied black non-reflective sheeting. Yellow panel is:

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

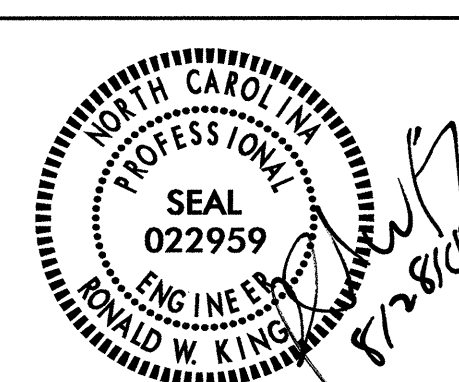
Letter spacings are to start of next letter

Letter spacings are to start of next letter								Series/Size Text Length

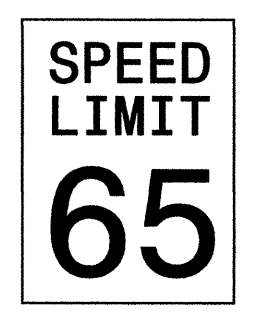
FILENAME: 2417C NORTH CAROLINA D.O.T. SIGN DETAIL

OVERLAYS

13-AUG-2009 08:33
 N:\ITP\Projects\2417\c\T\office\Signing\CADD\Signing Layout Plans\R2417_Coversht.dgn
 wmd@pew AT EC222839

TIP NO. R-2417C	SHEET NO. SIGN-34
APPROVED: _____	
DATE: _____	
SEAL	
	


401 QUANTITY REQ'D 2



48 X 60
R2-1

TWO "U" POSTS PER SIGN

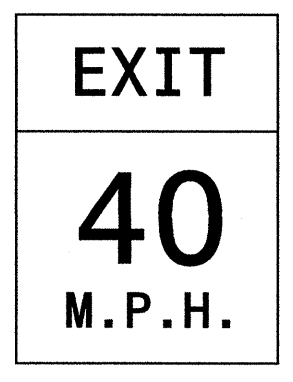
411 QUANTITY REQ'D 4



30 X 30
R5-1

ONE "U" POST PER SIGN

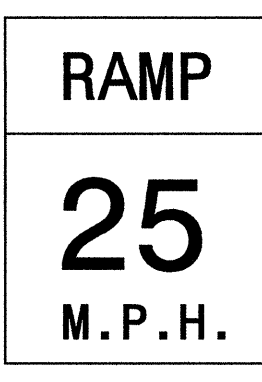
418 QUANTITY REQ'D 1



48 X 60
W13-2

TWO "U" POSTS PER SIGN

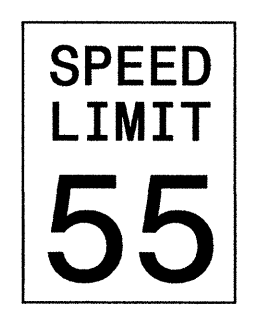
451 QUANTITY REQ'D 2



48 X 60
W13-3

TWO "U" POSTS PER SIGN


402 QUANTITY REQ'D 2



48 X 60
R2-1

TWO "U" POSTS PER SIGN

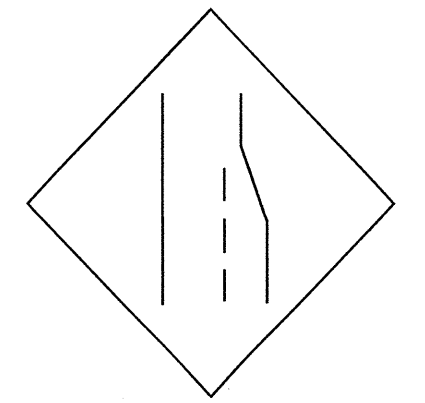
413 QUANTITY REQ'D 1



54 X 18
R6-1 (R)

TWO "U" POSTS PER SIGN

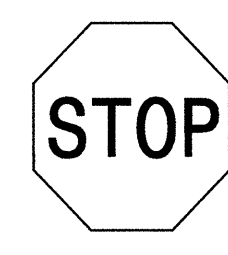
435 QUANTITY REQ'D 1



48 X 48
W4-2(R)

TWO "U" POSTS PER SIGN

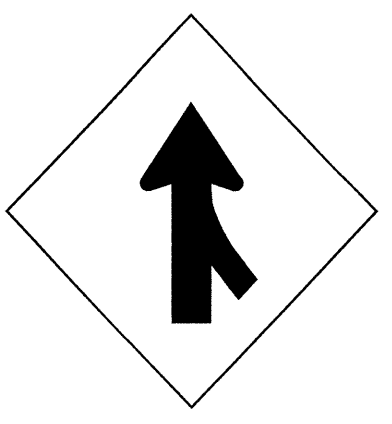
408 QUANTITY REQ'D 1



30 X 30
R1-1

ONE "U" POST PER SIGN


406 QUANTITY REQ'D 1



48 X 48
W4-1 (R)

TWO "U" POSTS PER SIGN

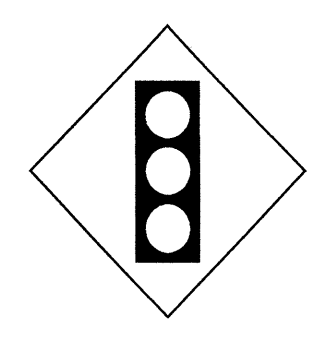
414 QUANTITY REQ'D 1



54 X 18
R6-1 (L)

TWO "U" POSTS PER SIGN

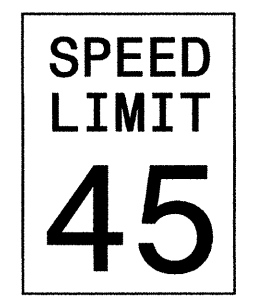
438 QUANTITY REQ'D 1



36 X 36
W3-3

ONE "U" POST PER SIGN

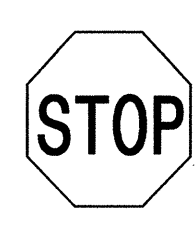
403 QUANTITY REQ'D 1



24 X 30
R2-1

ONE "U" POST PER SIGN

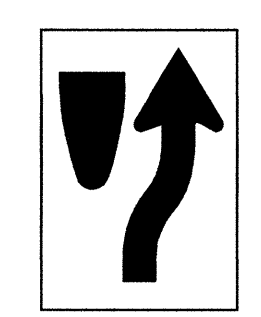
409 QUANTITY REQ'D 1



36 X 36
R1-1

ONE "U" POST PER SIGN

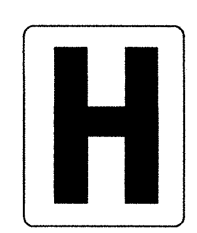
416 QUANTITY REQ'D 8



24 X 30
R4-7

ONE "U" POST PER SIGN

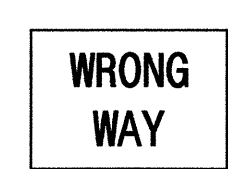
464 QUANTITY REQ'D 1



24 X 24
D9-2

ONE "U" POST PER SIGN

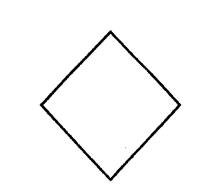
410 QUANTITY REQ'D 8



36 X 24
R5-1a

ONE "U" POST PER SIGN

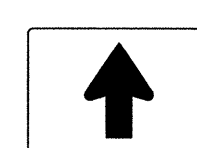
417 QUANTITY REQ'D 8



18 X 18
OM1-3

MOUNT BELOW SIGN 416
IN 8 INSTALLATIONS

465 QUANTITY REQ'D 1



21 X 15
M6-3
BLUE/WHITE

MOUNT BELOW SIGN 464
IN 1 INSTALLATIONS

TYPE "E" SIGNS

I3-AUG-2009 12:13
 N:\TIP\Projects\2417C\Office\Signing\CADD\Signing Layout Plans\T1.tlesht.dgn
 windbrw AT TEC22839

I:\AUC-2009_15457
 N:\Projects\2417\Traffic\Signing\CADD\Signing_Layout_Plans\Titlesht.dgn
 wmdrew AT 11/22/09

TIP NO. R-2417C	SHEET NO. SIGN-35
APPROVED: _____	
DATE: _____	
SEAL	

501 504 511 515 525 529
539 541 547

ONE "U" POSTS PER SIGN

507

ONE "U" POSTS PER SIGN

514 521 524

ONE "U" POSTS PER SIGN

533

MOUNT BELOW SIGN 302
IN 1 INSTALLATIONS

542

ONE "U" POSTS PER SIGN

551

TWO "U" POSTS PER SIGN

502 512 532

TWO "U" POSTS PER SIGN

508 518

ONE "U" POSTS PER SIGN

516 526

TWO "U" POSTS PER SIGN

534

TWO "U" POSTS PER SIGN

543

ONE "U" POSTS PER SIGN

552

TWO "U" POSTS PER SIGN

556

TWO "U" POSTS PER SIGN

503

ONE "U" POSTS PER SIGN

509 530 544 546

ONE "U" POSTS PER SIGN

523

ONE "U" POSTS PER SIGN

535

MOUNT BELOW SIGN 304
IN 1 INSTALLATIONS

547

MOUNT BELOW SIGN 111
IN 1 INSTALLATIONS

553

TWO "U" POSTS PER SIGN

557

TWO "U" POSTS PER SIGN

505

TWO "U" POSTS PER SIGN

510 519 520 531 545

ONE "U" POSTS PER SIGN

527

TWO "U" POSTS PER SIGN

536

MOUNT BELOW SIGN 102
IN 1 INSTALLATIONS

549

TWO "U" POSTS PER SIGN

554

TWO "U" POSTS PER SIGN

559

ONE "U" POSTS PER SIGN

506 517 540

ONE "U" POSTS PER SIGN

513 522 538

ONE "U" POSTS PER SIGN

528

ONE "U" POSTS PER SIGN

537

MOUNT BELOW SIGN 305
IN 1 INSTALLATIONS

550

TWO "U" POSTS PER SIGN

555 558

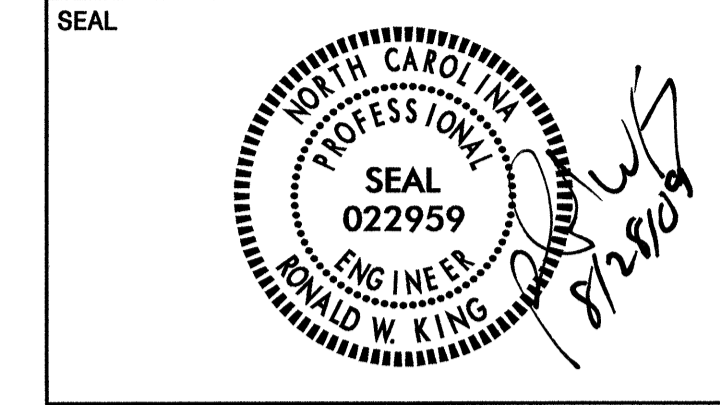
ONE "U" POSTS PER SIGN

560



ONE "U" POSTS PER SIGN

TYPE "F" SIGNS

APPROVED: _____
DATE: _____



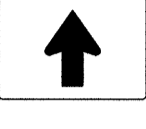


561

	1 - 24" X 12"
	1 - 30" X 24"




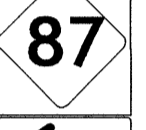


ONE "U" POSTS PER SIGN

562

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




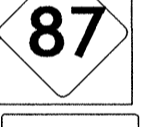
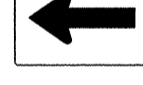
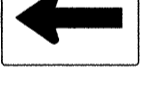
ONE "U" POSTS PER SIGN

563

		2 - 24" X 12"
		1 - 30" X 24"
		1 - 24" X 24"
		2 - 21" X 15"



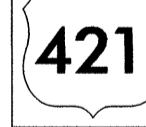

TWO "U" POSTS PER SIGN

564

		2 - 24" X 12"
		1 - 30" X 24"
		1 - 24" X 24"
		2 - 21" X 15"



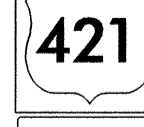
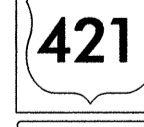


MOUNT BELOW SIGN 110
IN 1 INSTALLATIONS

565

		2 - 24" X 12"
		1 - 30" X 24"
		1 - 24" X 24"

TWO "U" POSTS PER SIGN

548

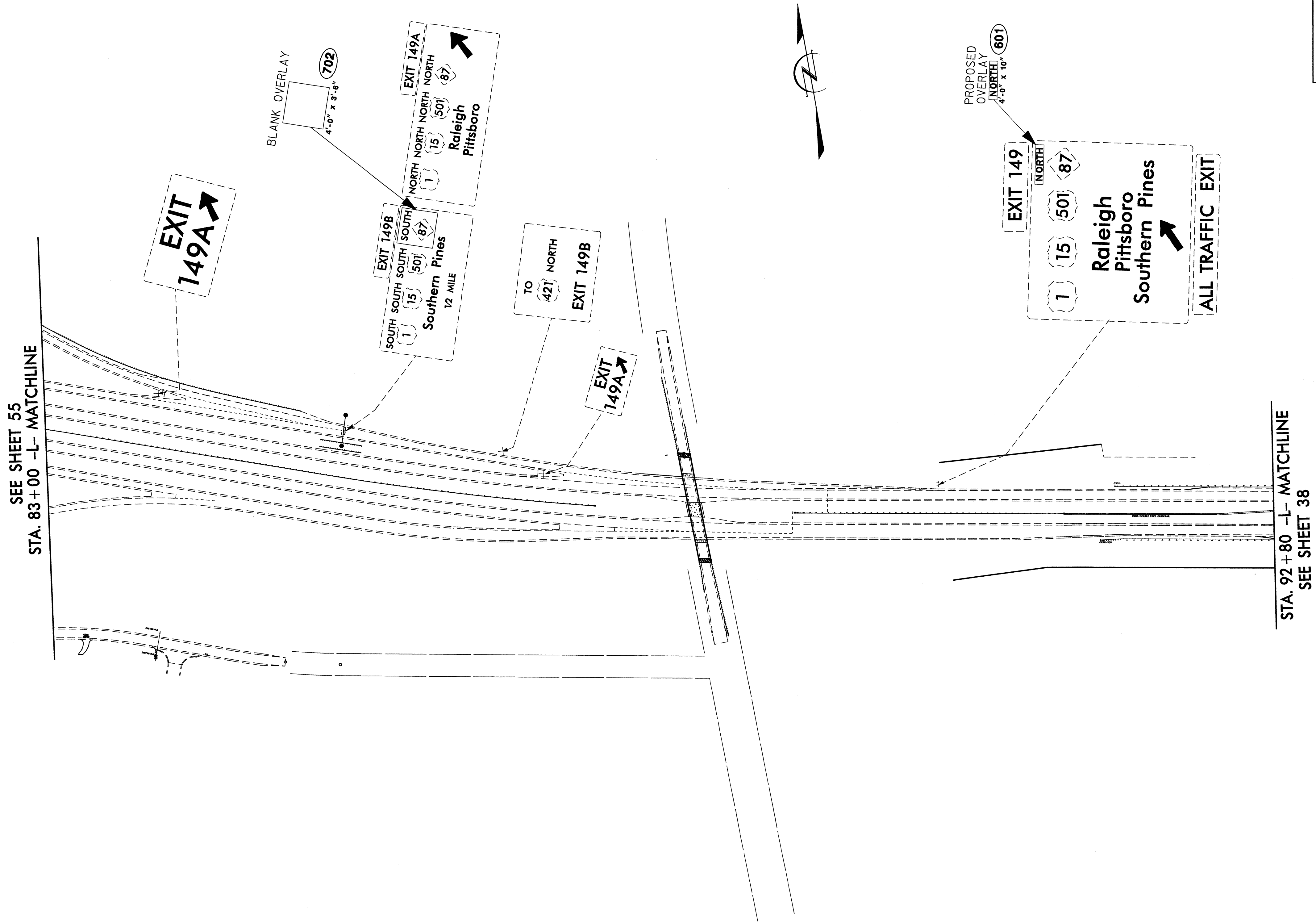
		2 - 24" X 12"
		2 - 30" X 24"
		2 - 21" X 15"


TWO "U" POSTS PER SIGN

TYPE "F" SIGNS

R:\GIS\2009_15\58
 N:\Traffic\Projects\8-1R2417C-Traffic\Signing\CADD\Signing Layout Plans\Titlesheet.dgn
 wmd@brax AT EC221839

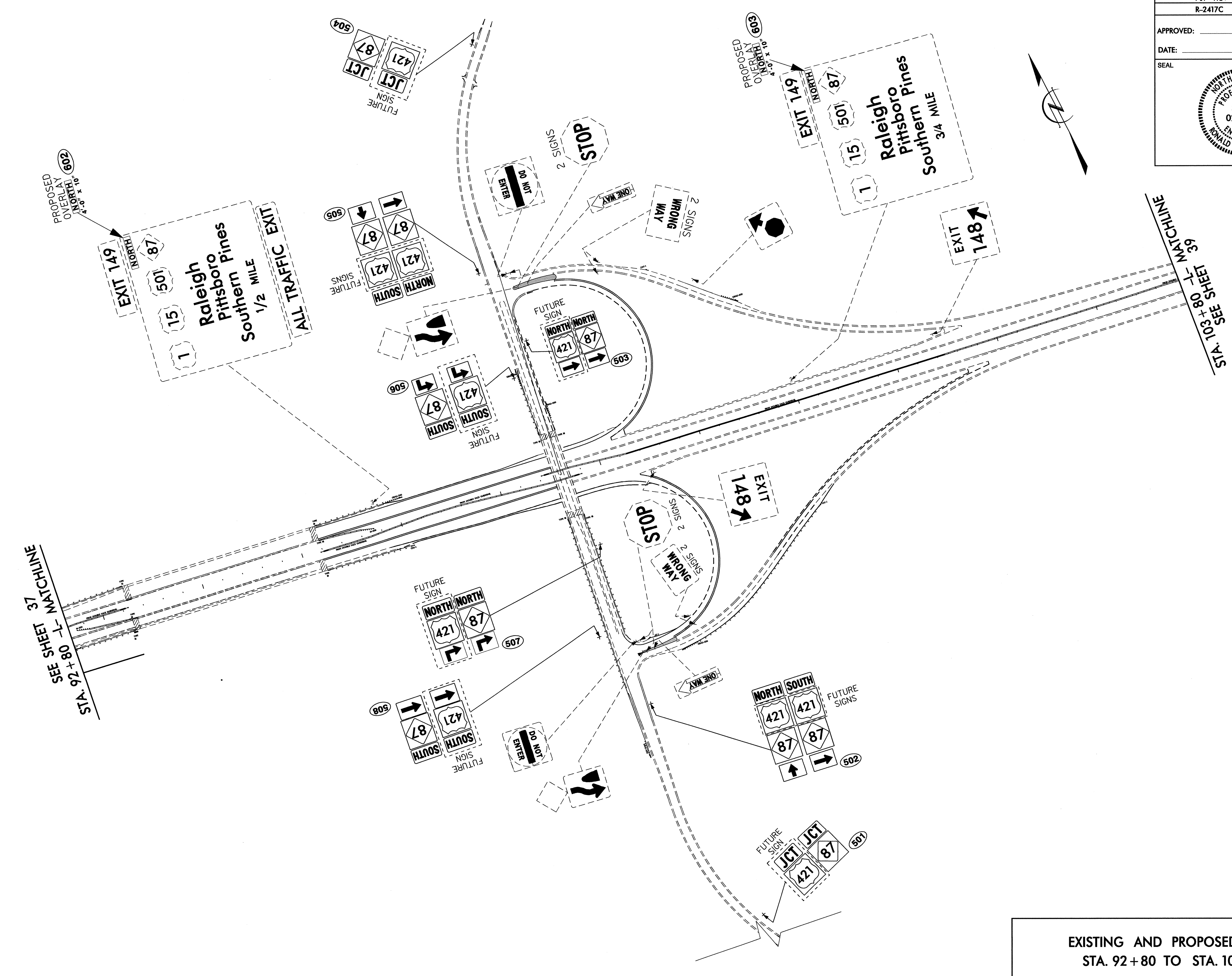
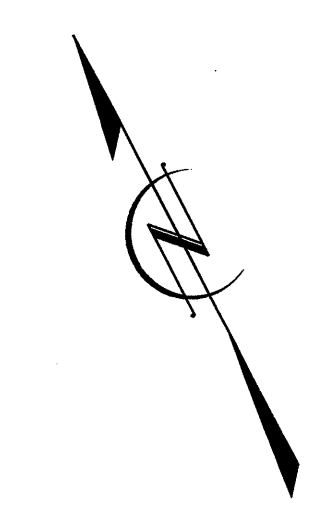
IT-AUG-2009 14:50
N:\IT\Projects\122417\Traffic\Signing\CADD\Signing Layout Plans\R-2417C_Sgn_sht4.dgn
wmdbrw AT 12/22/09



TIP NO. R-2417C	SHEET NO. SIGN-37
APPROVED: _____	
DATE: _____	
SEAL	
	

EXISTING AND PROPOSED SIGNS
83+00 TO 92+80

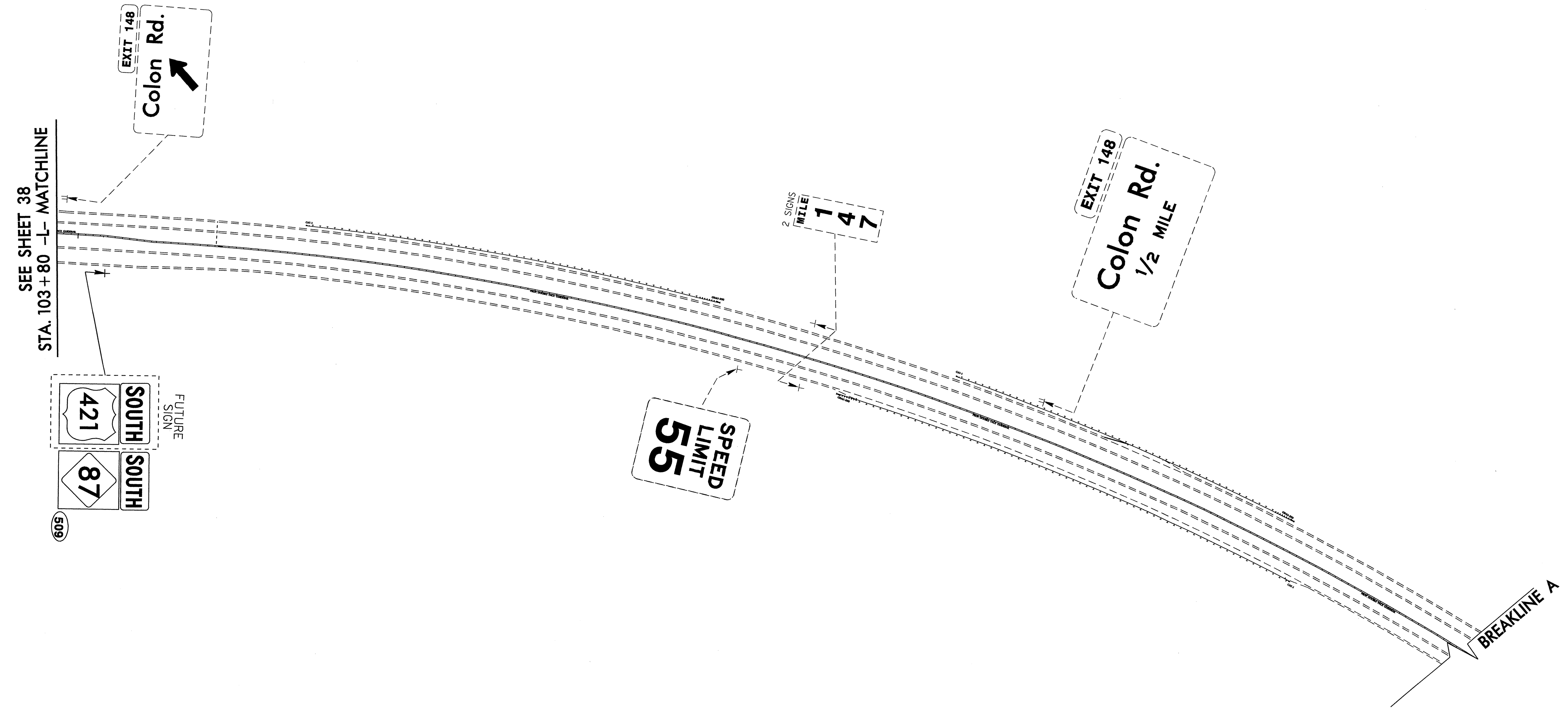
TIP NO. R-2417C	SHEET NO. SIGN-38
APPROVED: _____	
DATE: _____	
SEAL	



EXISTING AND PROPOSED SIGNS
STA. 92+80 TO STA. 103+80

I7-AUG-2009 14:52
 N:\ITPP\Projects\2417C\Traffic\Signing\CADD\Signing Layout Plans\R-2417C_Sgn_sht5.dgn
 whidbrw All Text2417C

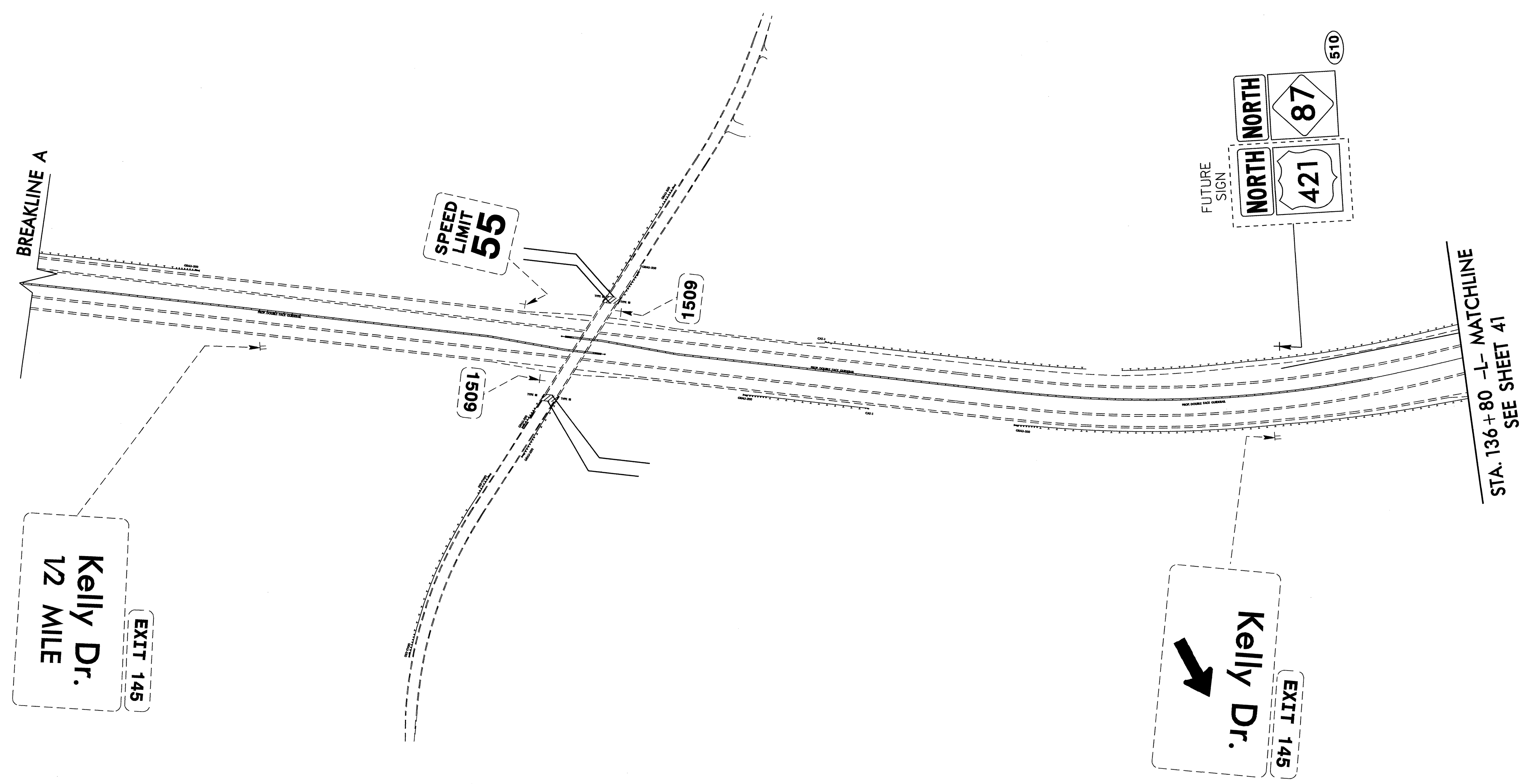
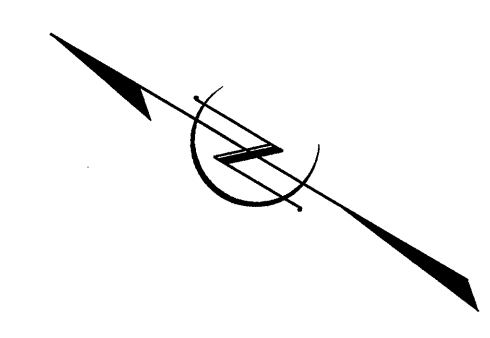
TIP NO. R-2417C	SHEET NO. SIGN-39
APPROVED: _____	
DATE: _____	
SEAL	



EXISTING AND PROPOSED SIGNS
STA. 103+80 TO BREAKLINE A

I:\7-AUG-2009 14:54
 N:\YIP\Projects\17-02417\Traffic\Signing\Layout Plans\R-2417C-Sgn_sht6.dgn
 wmdbrwn AT 10:22:16 AM

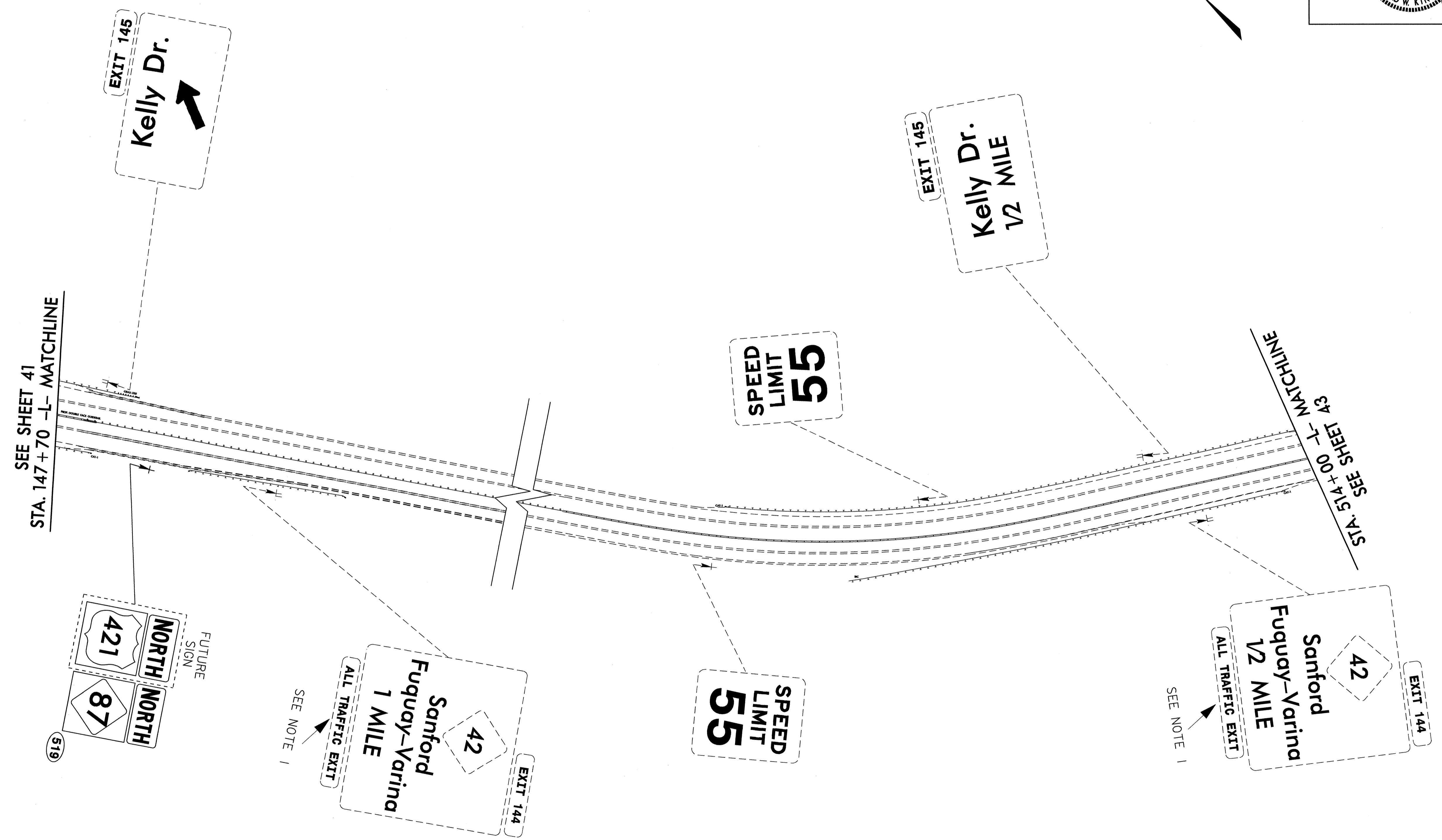
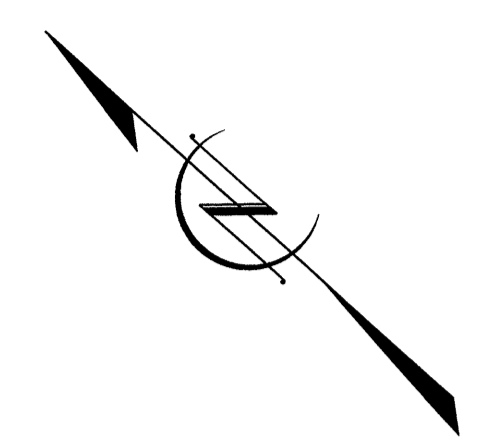
TIP NO. R-2417C	SHEET NO. SIGN-40
APPROVED: _____	
DATE: _____	
SEAL	



EXISTING AND PROPOSED SIGNS
BREAKLINE A TO STA. 136+80

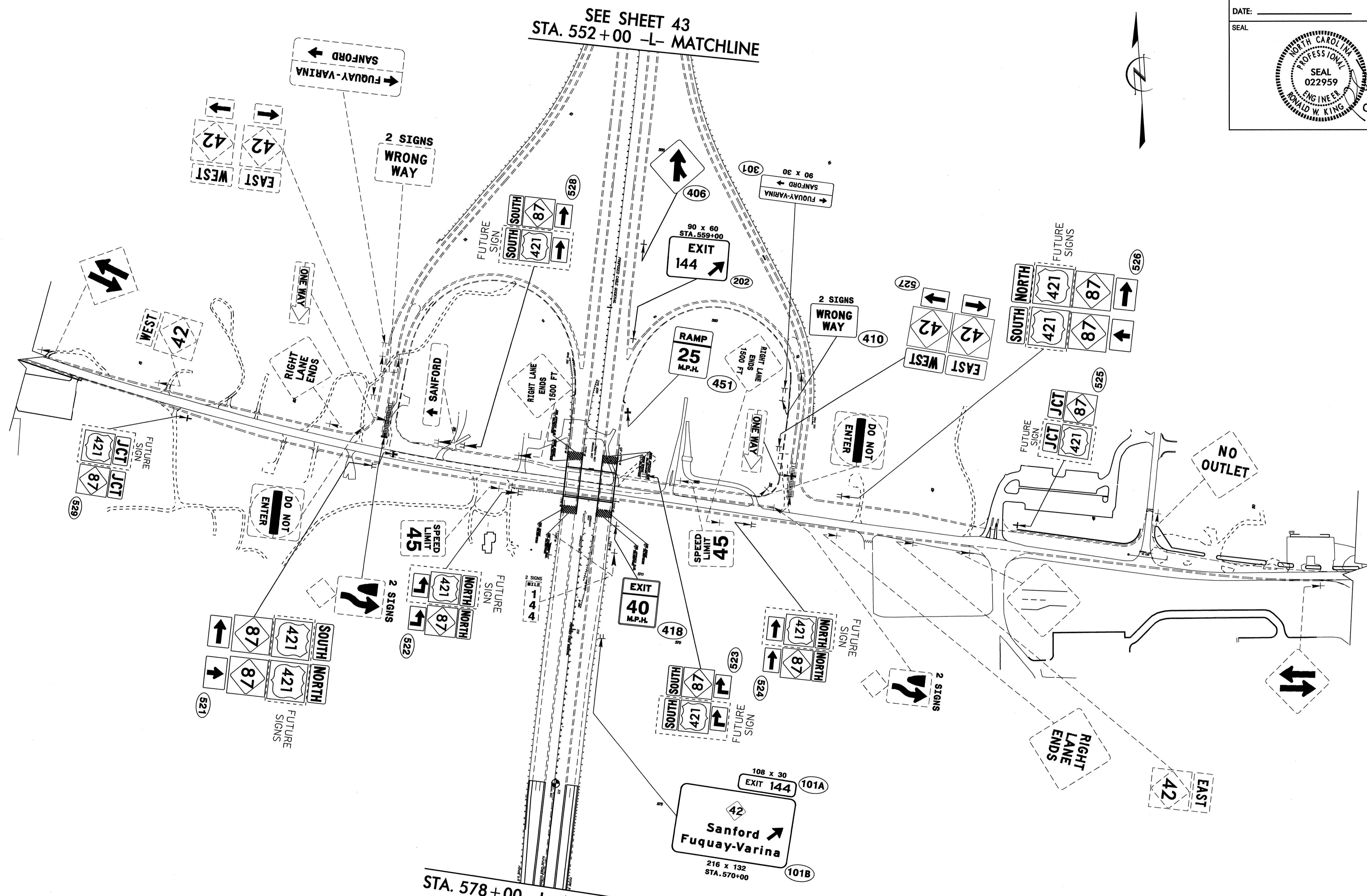
I:\7-AUG-2009 14:56
 N:\Projects\2417C\Tr-office\Signing\C400\Signing Layout Plans\R-2417C_Sgn_sht7.dgn
 wmdelbrew AT TEC221639

TIP NO. R-2417C	SHEET NO. SIGN-42
APPROVED: _____	
DATE: _____	
SEAL	



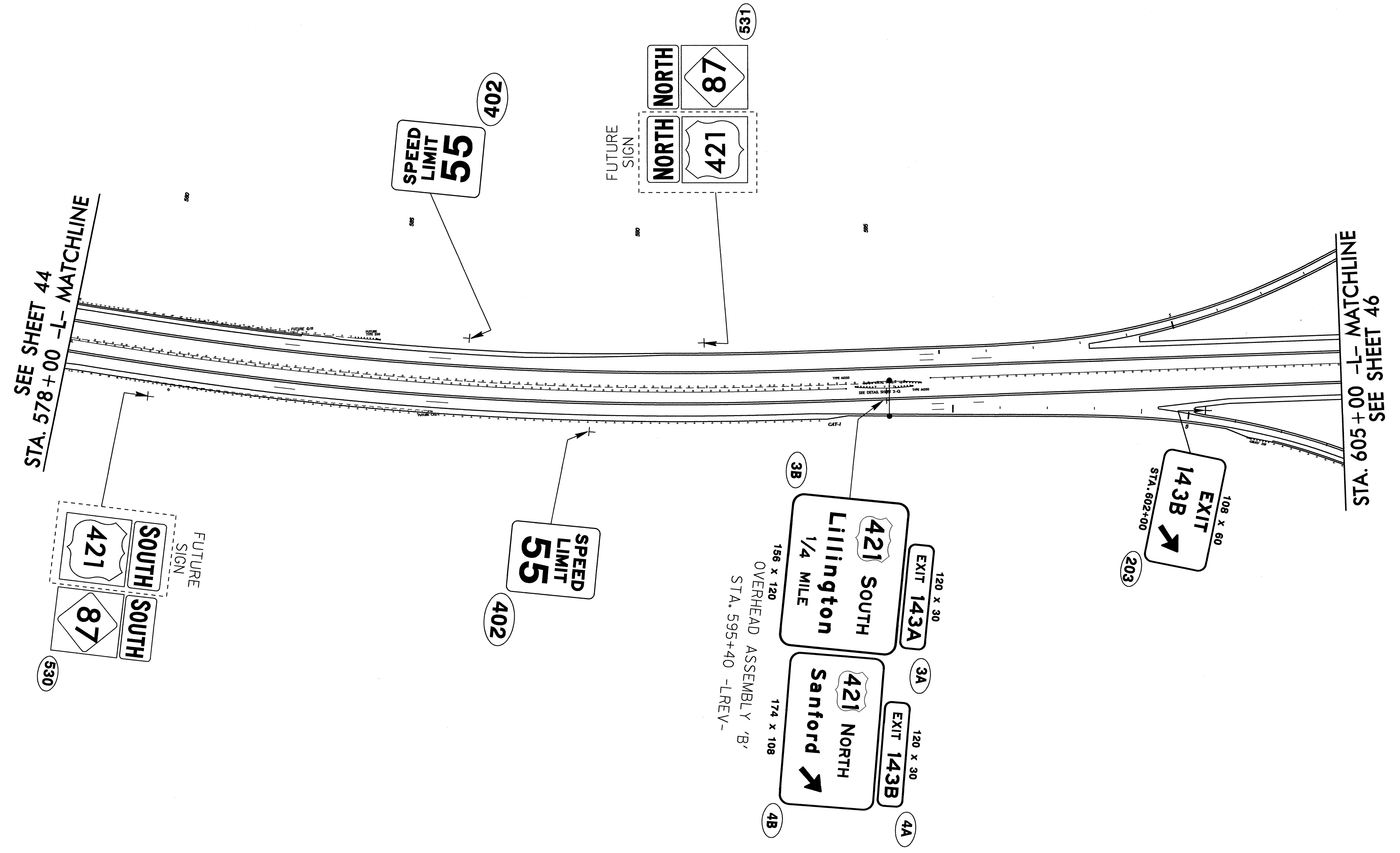
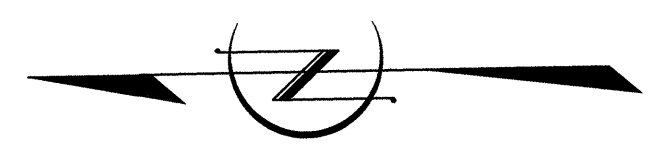
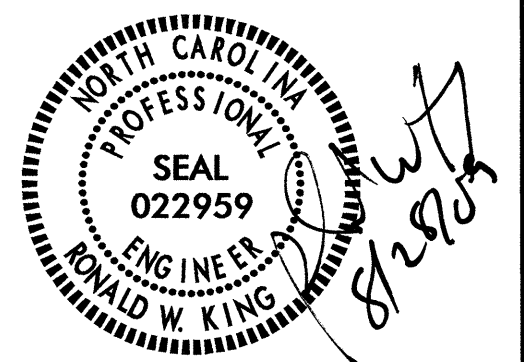
EXISTING AND PROPOSED SIGNS
STA. 147+70 TO STA. 514+00

TIP NO. R-2417C	SHEET NO. SIGN-44
APPROVED: _____	
DATE: _____	
SEAL	



IR-AUG-2009 08:49
 N:\Projects\2417C\Traffic\Signing\CADD\Signing Layout Plans\R-2417C_Sgn_sht11.dgn
 wmdbrw AT TCC227639

TIP NO. R-2417C	SHEET NO. SIGN-45
APPROVED: _____	
DATE: _____	
SEAL	

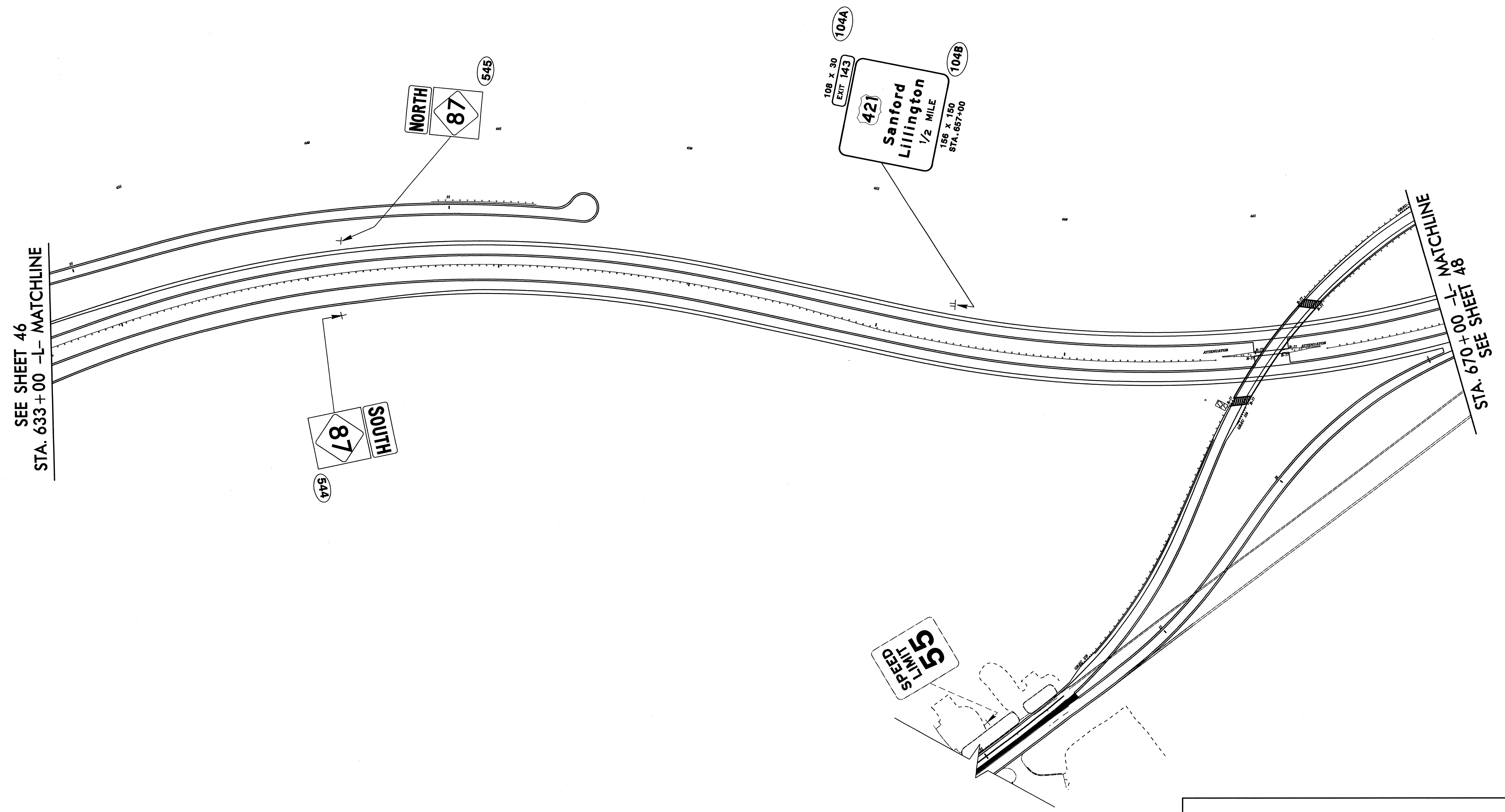
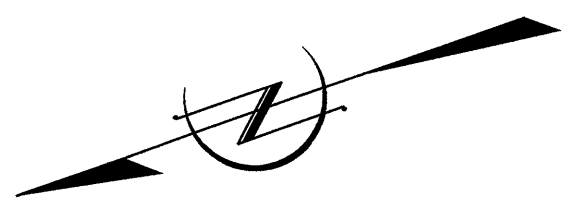


PROPOSED AND EXISTING SIGNS
STA. 578+00 TO STA. 605+00

18-AUG-2009 10:43
N:\IT\Projects\18-2417C\18-2417C-Office\Signing\CADD\Signing Layout Plans\R-2417C_Sgn_sht12.dgn
wmdbrw AT TECC22839

TIP NO. R-2417C	SHEET NO. SIGN-47
--------------------	----------------------

APPROVED: _____
 DATE: _____
 SEAL



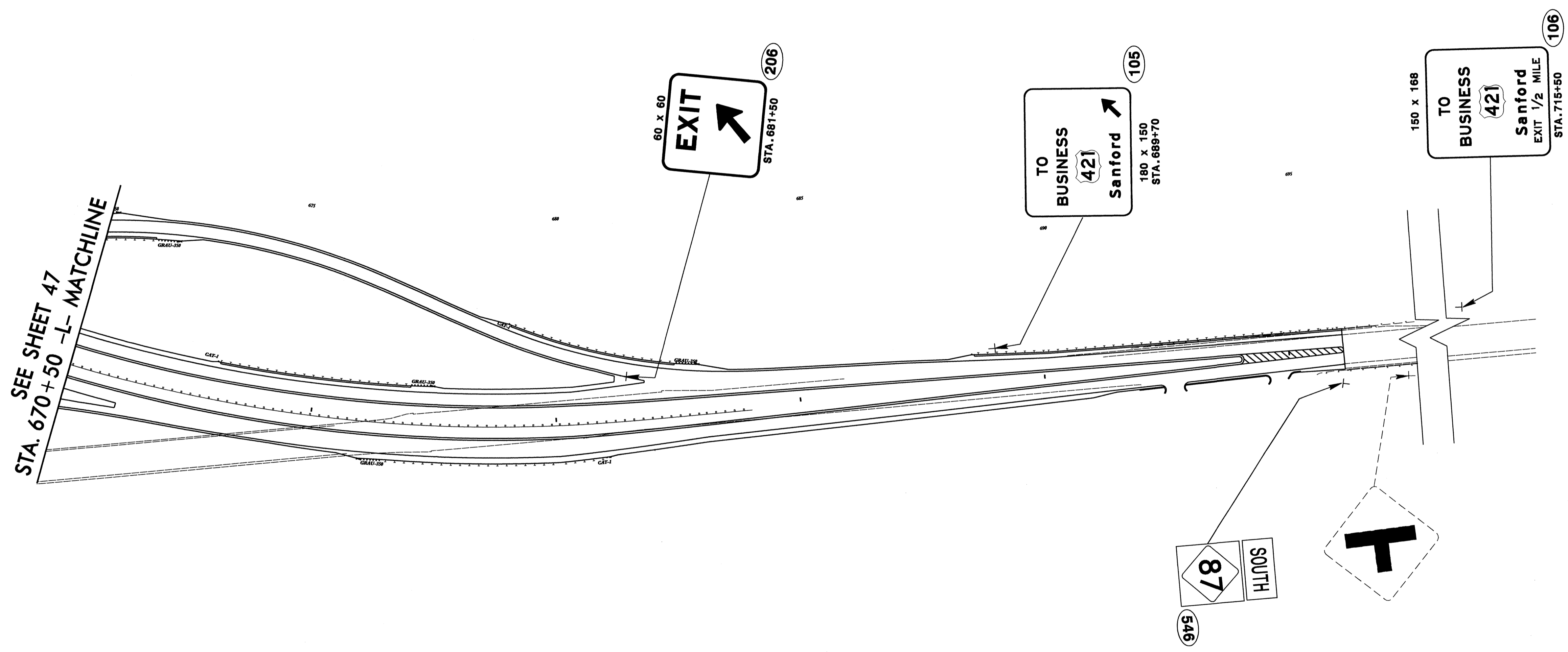
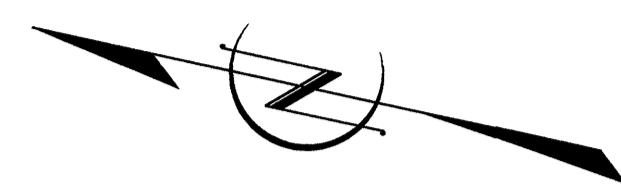
SEE SHEET 46
 STA. 633+00 -L- MATCHLINE

STA. 670+00 -L- MATCHLINE
 SEE SHEET L-48

PROPOSED AND EXISTING SIGNS
 STA. 633+00 TO 670+00

18-AUG-2009 11:06
 N:\ITP\Projects\18-2417\Office\Signing\CADD\Signing Layout Plans\R-2417C-Sgn_sht14.dgn
 wmdbrw AT 1802281839

TIP NO. R-2417C	SHEET NO. SIGN-48
APPROVED: _____	
DATE: _____	
SEAL	



**PROPOSED AND EXISTING SIGNS
STA. 670+50 TO BREAKLINE**

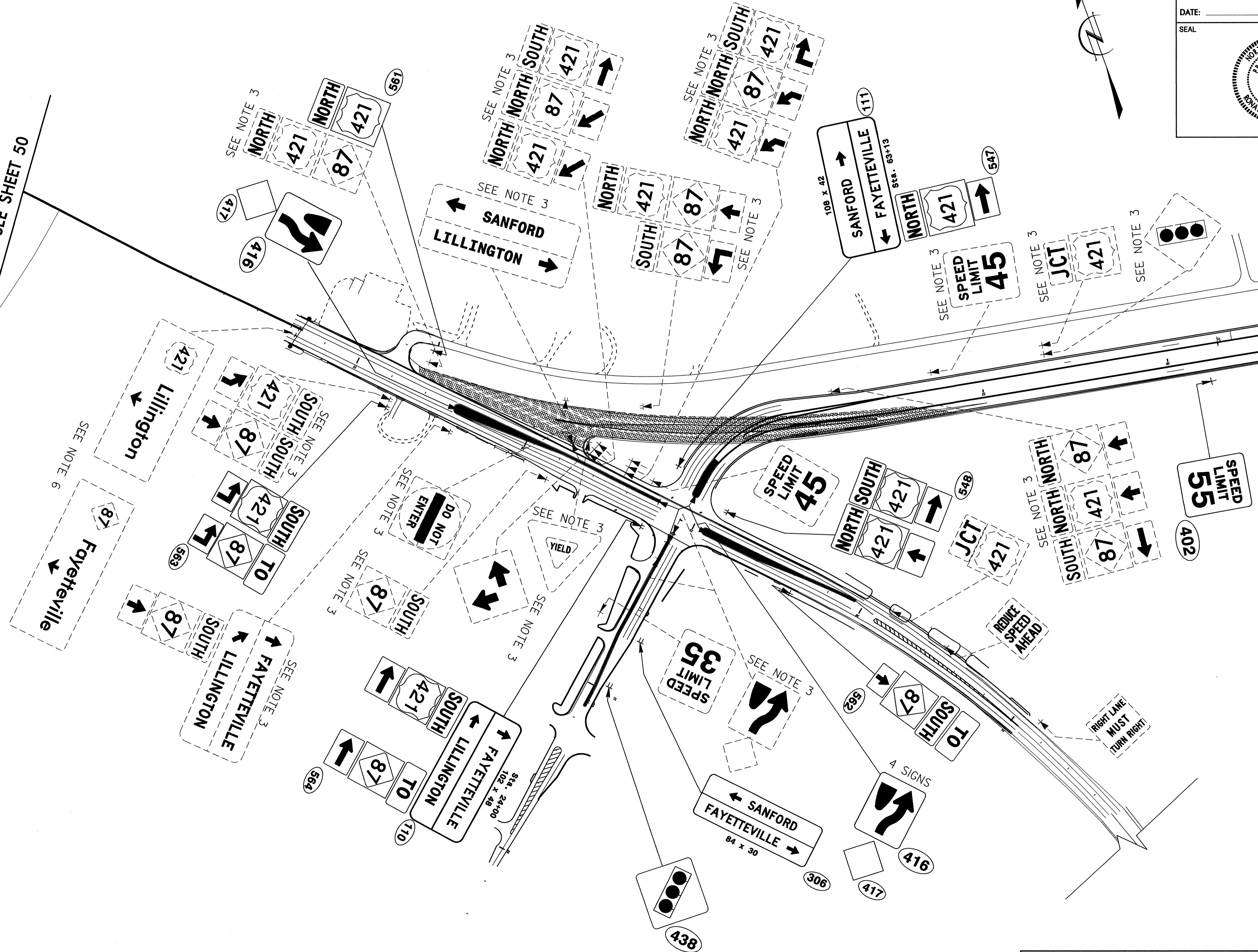
19-AUG-2009 12:01
 N:\Projects\R2417C\Traffic\Signing\CADD\Signing Layout Plans\R-2417C_Sgn_sht15.dgn
 wmdbrav AT TEC221639

TIP NO. R-2417C	SHEET NO. SIGN-49
APPROVED: _____	
DATE: _____	
SEAL	



MATCHLINE SEE SHEET 50

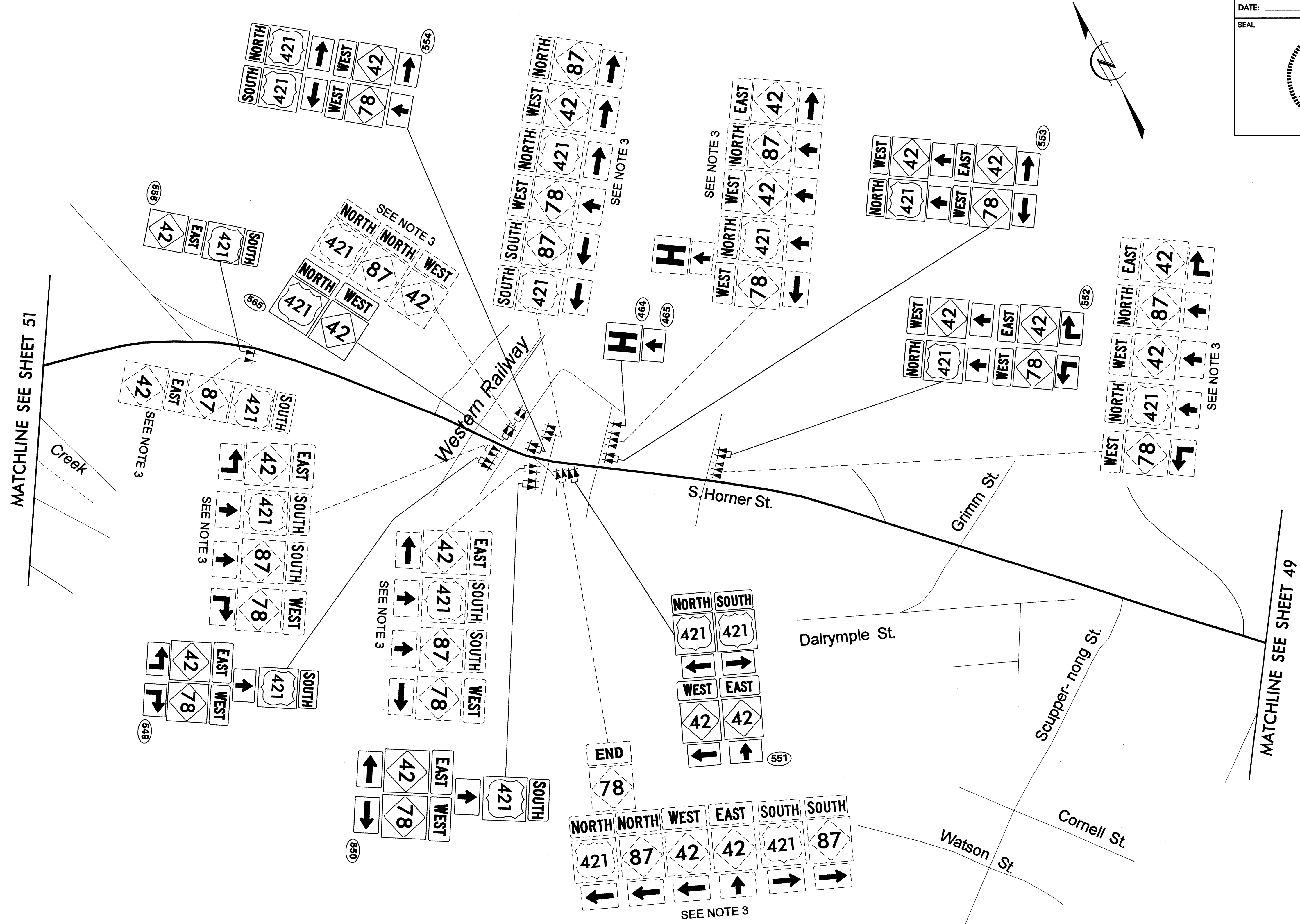
STA. 47+00 -Y- MATCHLINE
SEE SHEET 46



PROPOSED AND EXISTING SIGNS
MATCHLINE TO STA. 47+00

18-AUG-2009 11:09
N:\ITP\Projects\122417\Traffic\Signing\CADD\Signing Layout Plans\R-2417C_Sgn_sht17.dgn
wmdbr-aw AT 12/22/09

TIP NO. R-2417C	SHEET NO. SIGN-50
APPROVED: _____	
DATE: _____	
SEAL	

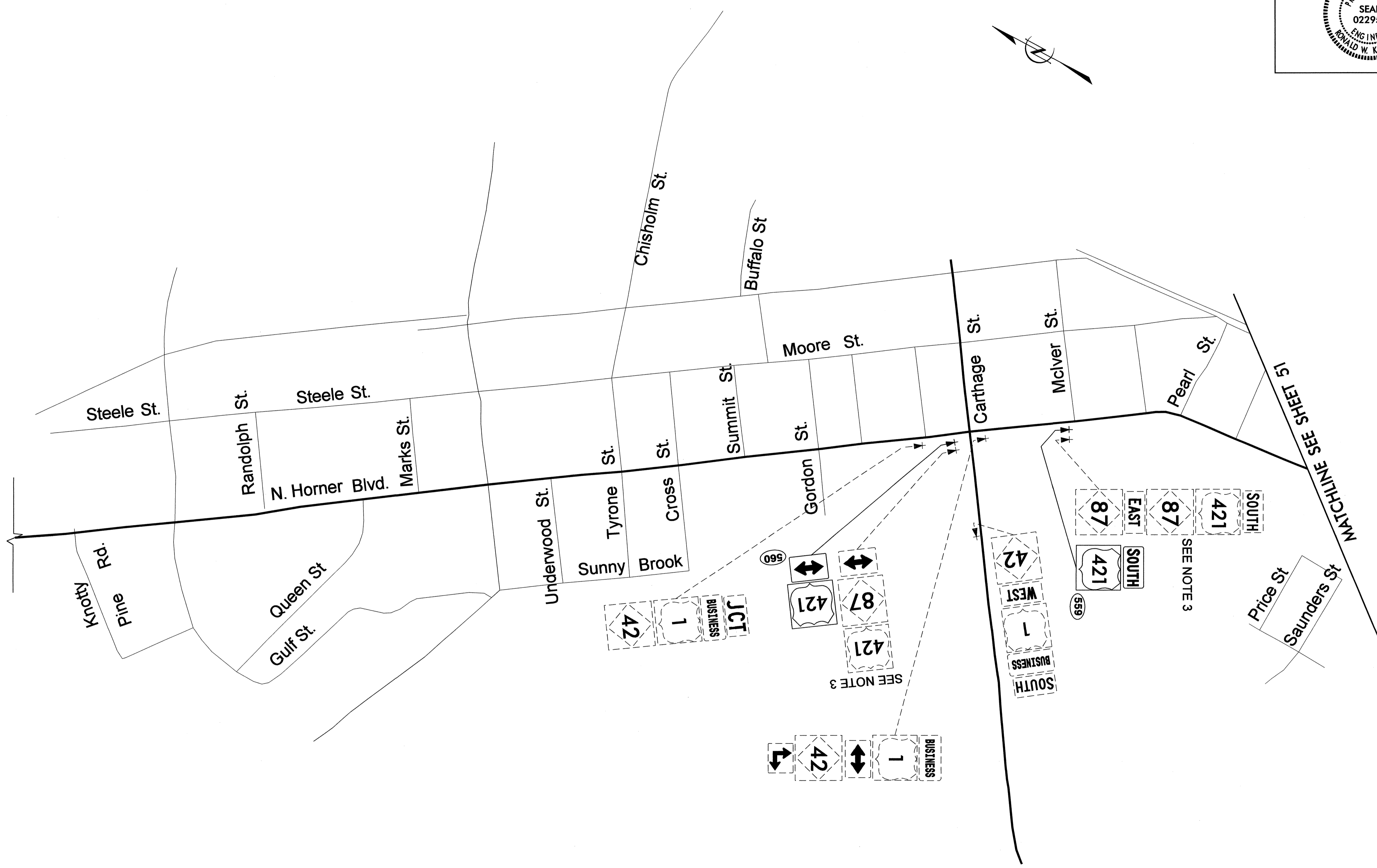
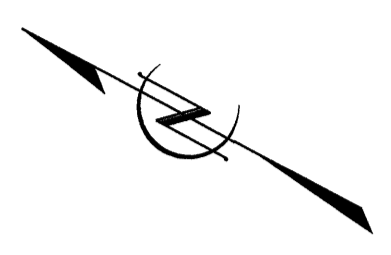
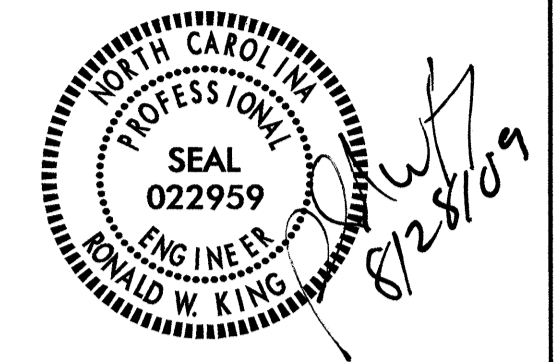


PROPOSED AND EXISTING SIGNS

18-AUG-2009 11:13
 N:\TIP\Projects\18-AUG-2009\Traffic\Signing\CADD\Signing Layout Plans\R-2417C_Sgn_sht18.dgn
 wmdbrw AT 11:13:22

10
 10

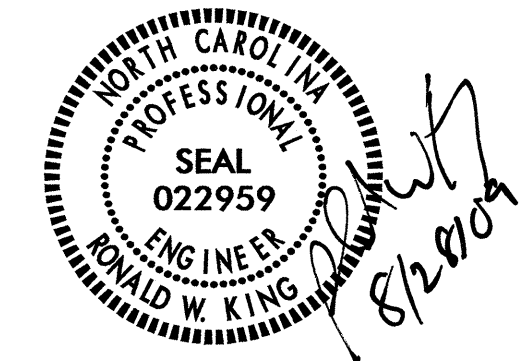
TIP NO. R-2417C	SHEET NO. SIGN-52
APPROVED: _____	
DATE: _____	
SEAL	



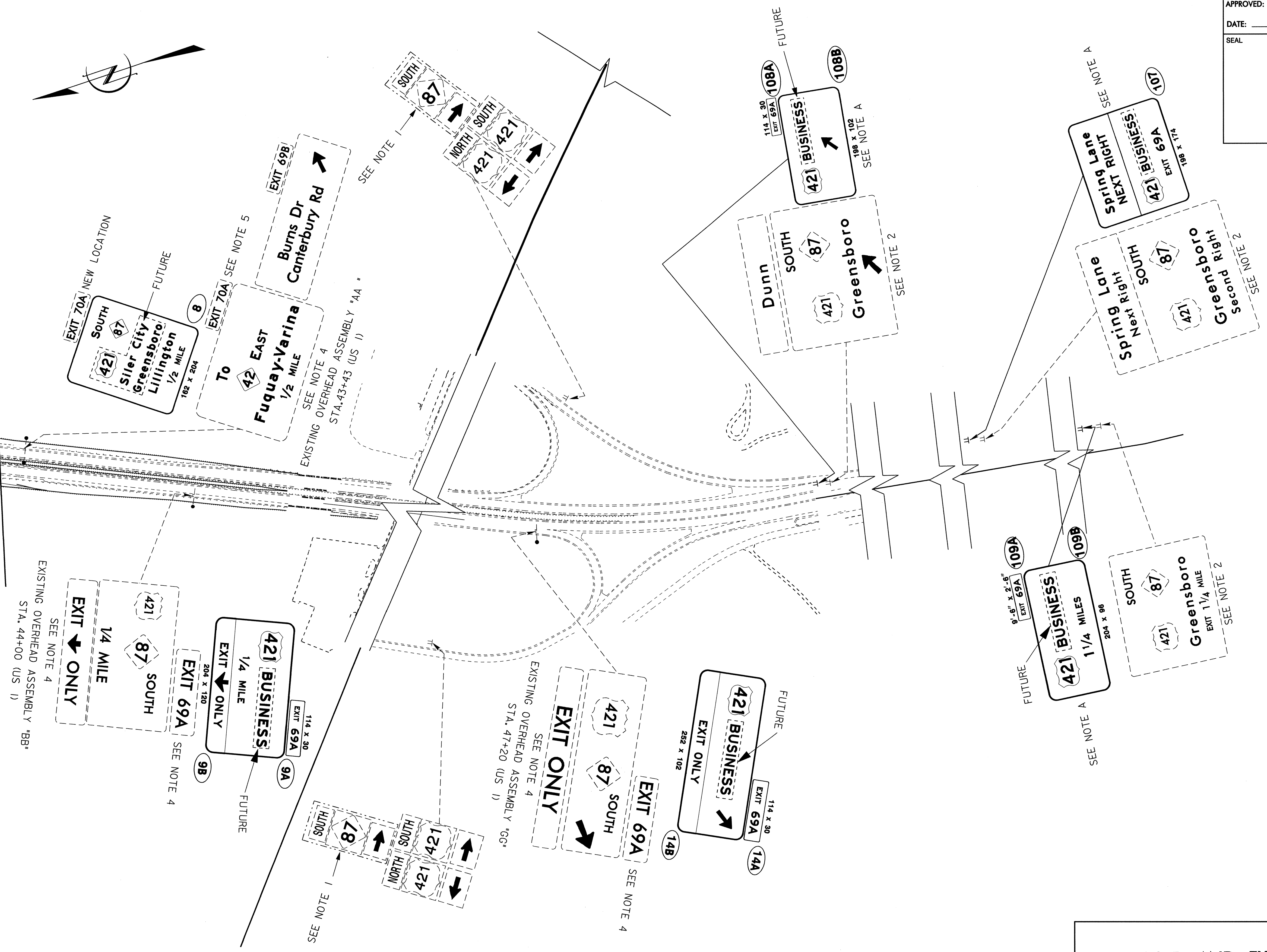
PROPOSED AND EXISTING SIGNS

18-AUG-2009 11:16
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 wmdbrw AT TEC22839

TIP NO. R-2417C	SHEET NO. SIGN-53
APPROVED: _____	
DATE: _____	
SEAL	



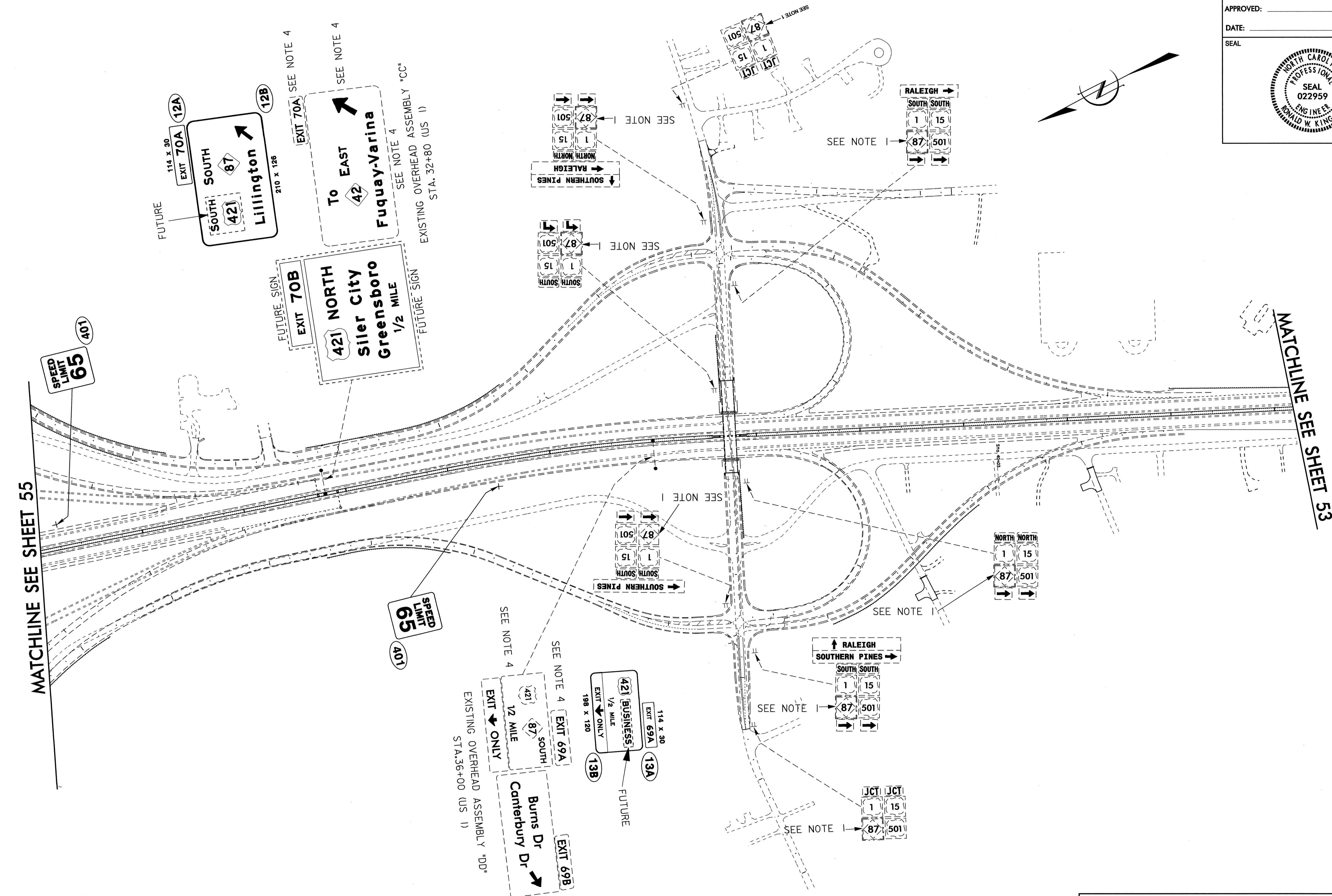
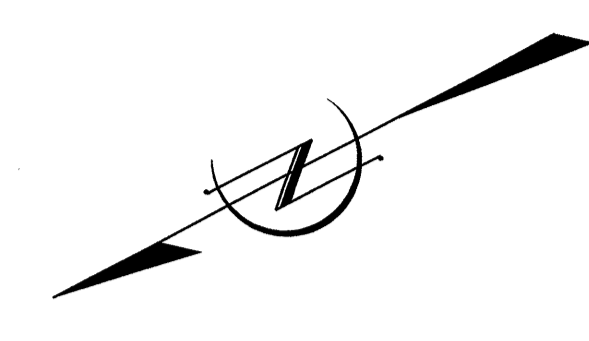
MATCHLINE SEE SHEET 54



PROPOSED AND EXISTING SIGNS

18-AUG-2009 12:09
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 wdbrew AT TELC22839

TIP NO. R-2417C	SHEET NO. SIGN-54
APPROVED: _____	
DATE: _____	
SEAL	



PROPOSED AND EXISTING SIGNS

18-AUG-2009 11:27
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 wmd@brw AT 10:22:26

