

T.I.P.: R-5185

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLANS
HARNETT COUNTY**

LOCATION: US 401 FROM NC 210 NORTH OF SR 1436
(MATTHEWS ROAD) IN LILLINGTON

TIP NO. R-5185	SHEET NO. SIGN-1
APPROVED:	
DATE: 3-29-11	
SEAL 	

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED 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
901.70	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
904.30	SUPPLEMENTAL SIGN MOUNTING

SUMMARY OF QUANTITIES

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL	818	L.F.
4082000000	903	SUPPORTS, WOOD	48	L.F.
4110000000	904	SIGN ERECTION, TYPE A (GROUND MOUNTED)	3	EA.
4096000000	904	SIGN ERECTION, TYPE D	13	EA.
4102000000	904	SIGN ERECTION, TYPE E	64	EA.
4108000000	904	SIGN ERECTION, TYPE F	5	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	61	EA.
4057000000	SP	OVERHEAD FOOTING	34	C.Y.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-L- 63+11"	1	L.S.
4082100000	SP	SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "-L- 55+13"	1	L.S.
4060000000	903	SUPPORTS, BREAKAWAY STEEL BEAM	1463	LB.
4048000000	902	REINFORCED CONCRETE SIGN FOUNDATION	2	C.Y.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE D	3	EA.

GENERAL NOTES

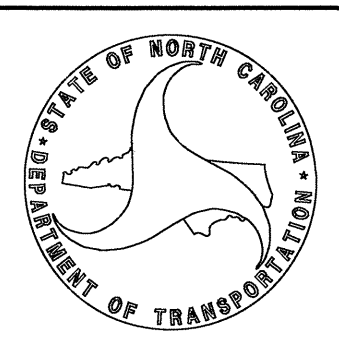
- . SIGNS FURNISHED BY STATE
- . ALL TYPE 'D' SIGNS SHALL BE MOUNTED ON TWO U-CHANNEL POSTS UNLESS OTHERWISE INDICATED ON THE PLANS.
- . IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL 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.
- . 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.
- . WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.

INDEX

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET, NOTES, QUANTITIES
SIGN-2-2D	SUPPORT INFORMATION AND GROUND MOUNT SHEETS
SIGN-3-3B	E AND F SHEETS
SIGN-4-4G	OVERHEAD ASSEMBLY SHEETS, OVERHEAD SIGN DESIGNS AND GROUND MOUNTED SIGN DESIGNS
SIGN-5-10	SIGN DETAIL SHEETS

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

AYMAN ALQUDWAH, P.E. SIGNING & DELINEATION REGIONAL ENGINEER
D. PILLAR SIGNING & DELINEATION DESIGN ENGINEER

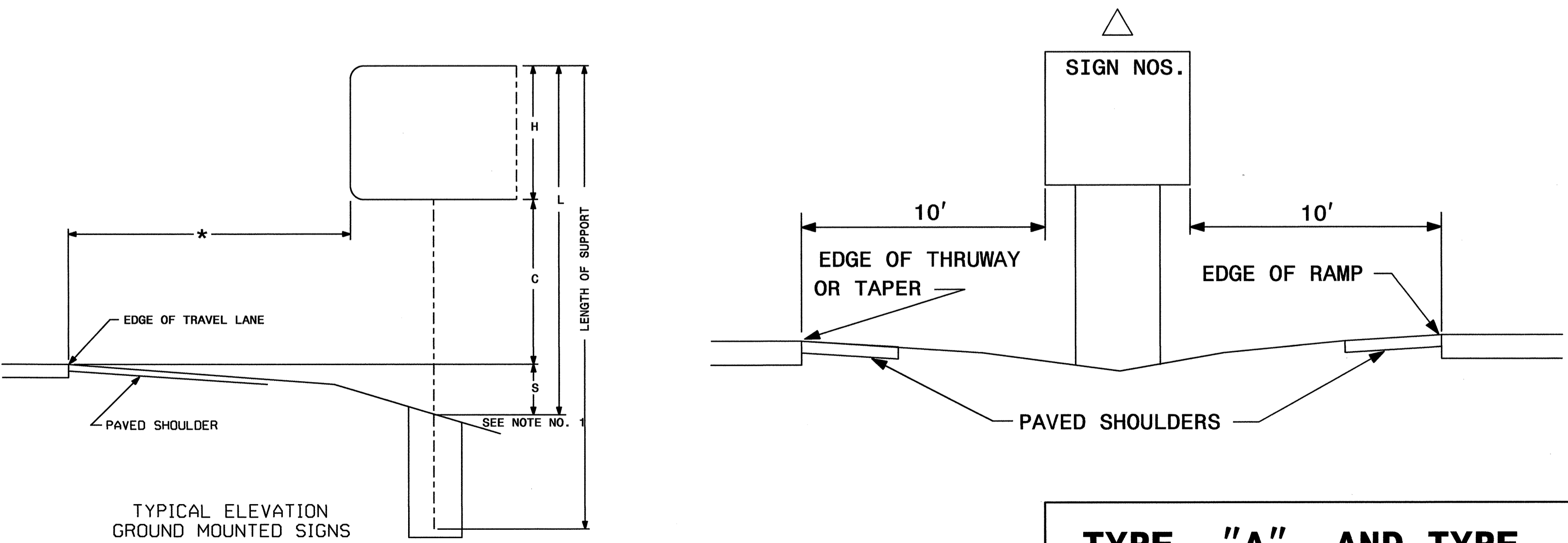


TIP NO. R-5185	SHEET NO. SIGN-2
APPROVED: <i>[Signature]</i>	
DATE: 12-21-10	
SEAL	

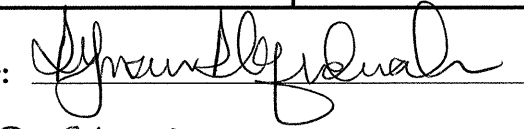

SIGN NO.	SIGN TYPE	SIGN SIZE (in.)			ROADWAY STATION	NO. OF SUP.	BEAM SECTION	SUPPORT TYPE	ATTACH METHOD	MOUNTING METHOD	HORIZ. CLR.* (ft.)	LENGTH (ft)			LEFT SUPPORT (ft)		CENTER SUPPORT (ft)		RIGHT SUPPORT (ft)		FOOTING DIAMETER (ft.)	FOOTING DEPTH (ft.)	B/A SUPPORT WEIGHTS (lbs.)	SIMPLE SUPPORT WEIGHTS (lbs.)	REINF. FTGS. (c.y.)	FIELD VERIFIED (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	A	162	X	156	(Y6) 14+18	2	W8x18	BA	N/A	N/A	20.00	13.00	7.00	6	1.48	21.48	27.48	0.00	0.00	0.00	1.51	21.51	27.51	2	6.5	1151.94	0.00	1.51																		
102	A	108	X	60	(L) 47+89	2	S4x7.7	BA	N/A	N/A	13.50	5.00	7.00	4.5	0.39	12.39	16.89	0.00	0.00	0.00	1.71	13.71	18.21	1	5	310.88	0.00	0.29																		
103	A	138	X	156	(Y8) 11+27	2	WOOD 4"X6"	BA	N/A	N/A	5.00	13.00	7.00	4.5	0.10	20.10	23.60	0.00	0.00	0.00	0.25	20.25	23.75	N/A	N/A	0.00	0.00	0.00																		
																						TOTAL	1462.82	TOTAL	0.00	TOTAL	1.80	USE:		1463	0	2														

NOTES

- DIMENSION "S" REPRESENTS AN INCREASE (+), OR A DECREASE (-) IN POLE LENGTH, RELATIVE TO THE ELEVATION OF THE EDGE OF PAVEMENT.
- FIELD VERIFICATIONS SHALL BE REQUIRED FOR ALL SUPPORTS, SEE (*) ARTICLE 903-3. FABRICATORS SHALL BE AISC CERTIFIED IN CATEGORY 1, SEE (*) ARTICLE 1072-1. (*) = N.C.D.O.T. STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES
- PLAN LOCATIONS FOR EXISTING UTILITIES ARE BASED ON THE BEST AVAILABLE INFORMATION AND, THEREFORE MAY NOT BE PRECISELY ACCURATE. THEREFORE, IT IS INCUMBENT UPON THE CONTRACTOR TO DETERMINE THE EXACT LOCATION OF UTILITIES BEFORE BEGINNING WORK IN A LOCATION.



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

TIP NO. R-5185	SHEET NO. SIGN-2A
APPROVED: 	
DATE: 12-21-10	
SEAL	
	

NOTES:


1. DESIGN CONFORMS WITH THE SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS - A.A.S.H.T.O.
2. USE MATERIALS, FABRICATE AND ERECT SIGNS AND SUPPORTS THAT CONFORM TO THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
3. 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.
4. 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
5. 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.
6. BASE PLATES DETAILS ARE FOR INSTALLATIONS ON THE RIGHT SHOULDER AND IN GORE AREAS.
7. 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

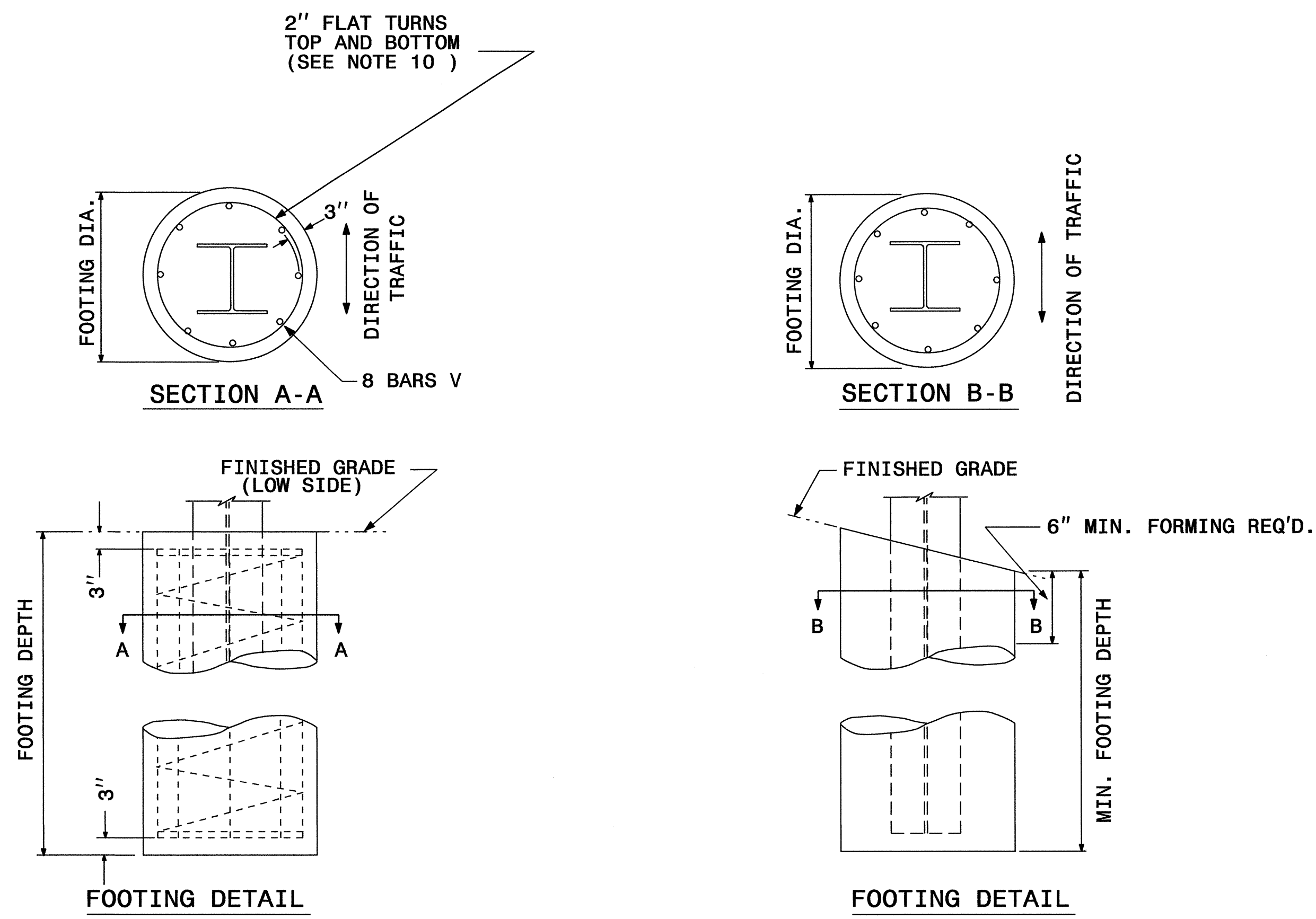
COMPLETELY ASSEMBLE B/A POSTS PRIOR TO ERECTION. B/A POST TO BE SET IN ONE PIECE. AFTER SUPPORT HAS BEEN ERECTED AND THE CONCRETE FOOTINGS HAS CURED AT LEAST 48 HRS., CLEAN CONCRETE FROM BASE CONNECTION BOLTS THEN LOOSEN AND RETIGHTEN EACH BOLT IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. DO NOT OVERTIGHTEN.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

8. 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.
9. FORM TOP 6" OF FOOTINGS. ENGINEER APPROVES THE METHOD USED.
10. 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.
11. ELIMINATE HINGE CONNECTION FOR ALL SINGLE SUPPORT SIGNS.
12. 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.
13. SHAPE THE TOPS OF THE FOOTINGS TO CONFORM WITH FINISHED GROUND ELEVATIONS SUCH THAT WATER WILL NOT COLLECT AGAINST THE SUPPORTS.
14. 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-5185	SHEET NO. SIGN-2B
APPROVED: <i>[Signature]</i>	
DATE: 12-21-10	
SEAL	
	

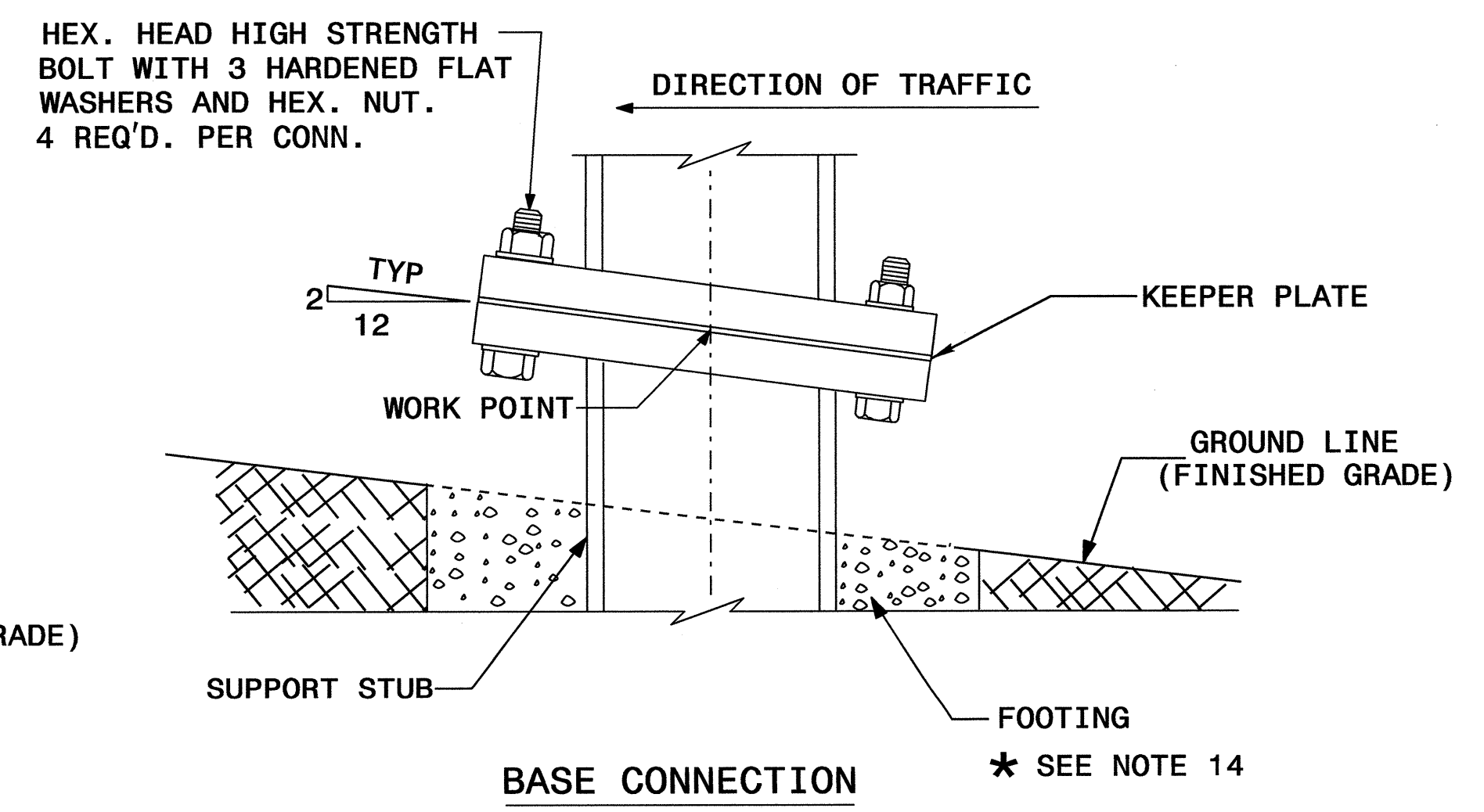
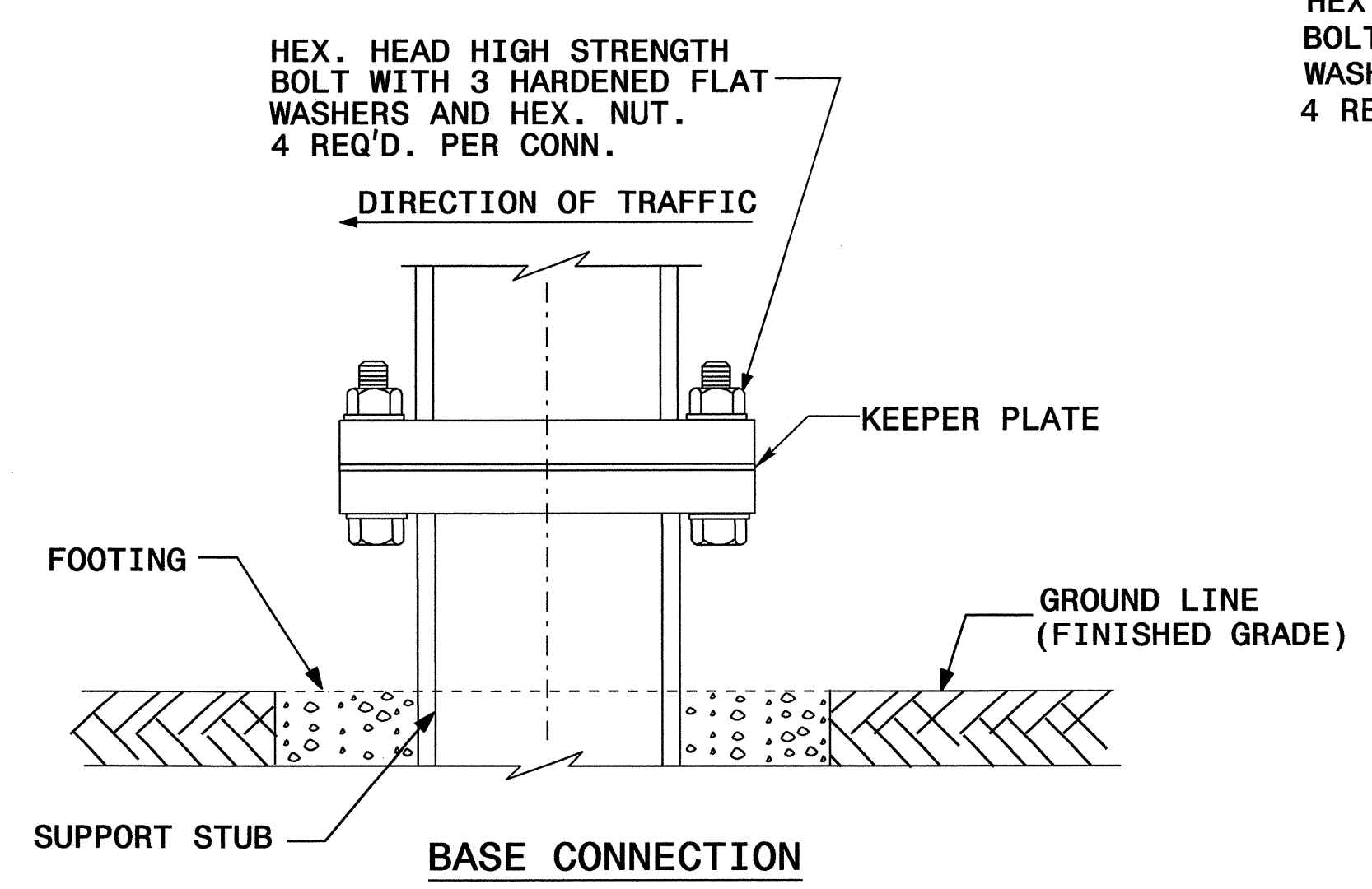
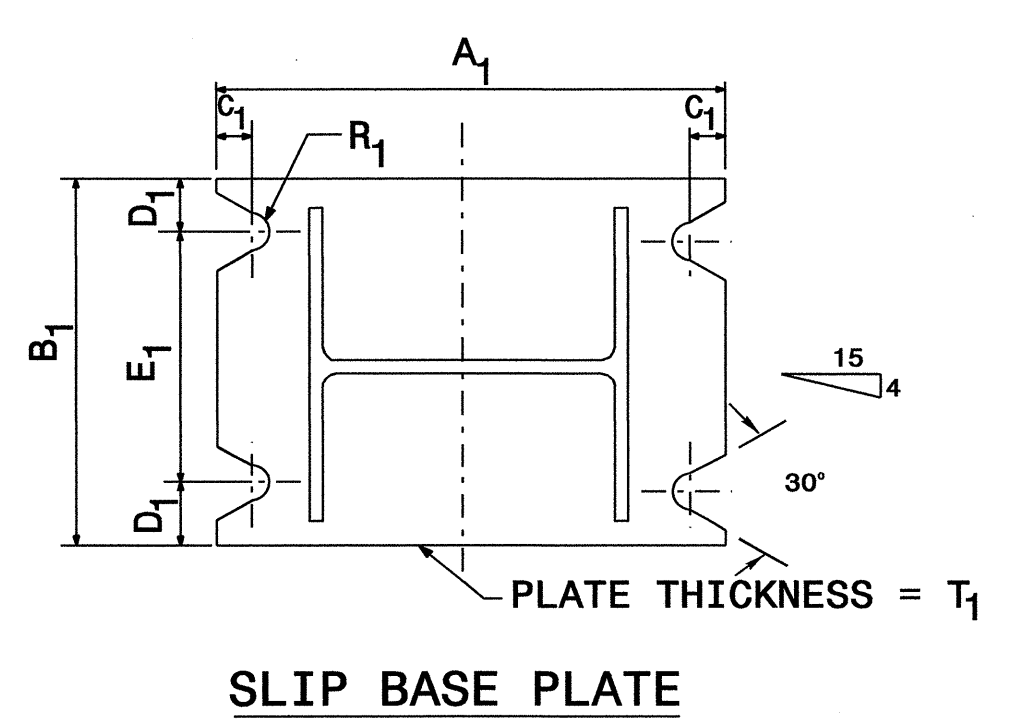
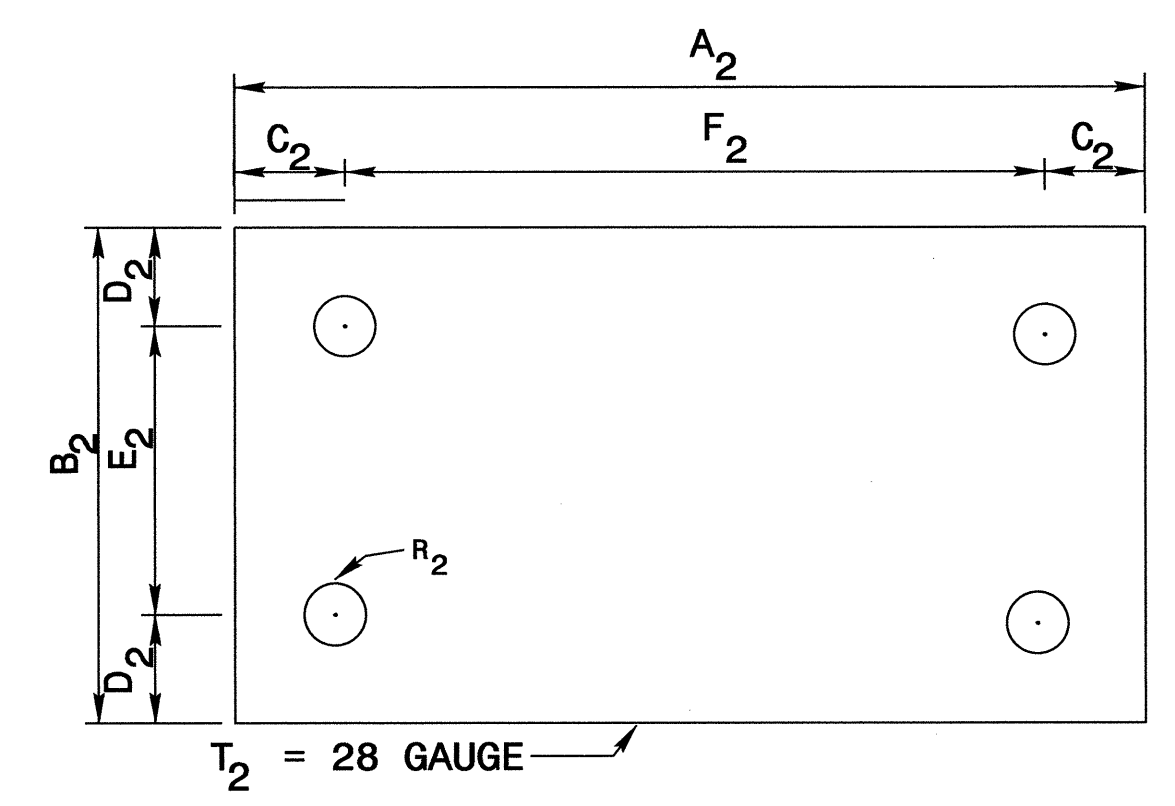
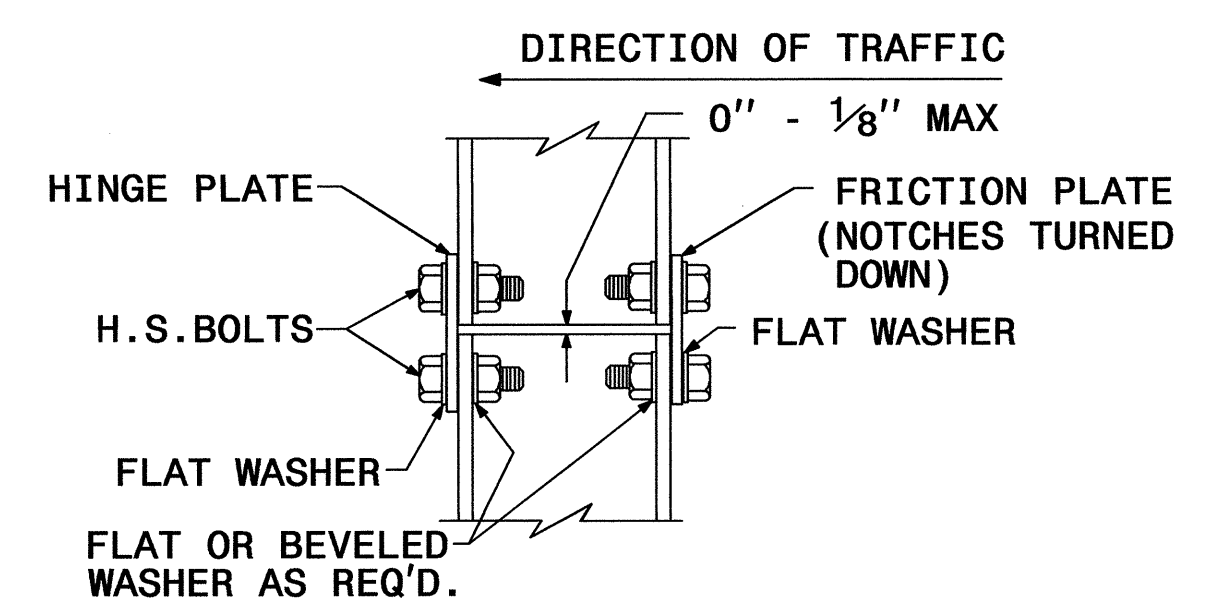
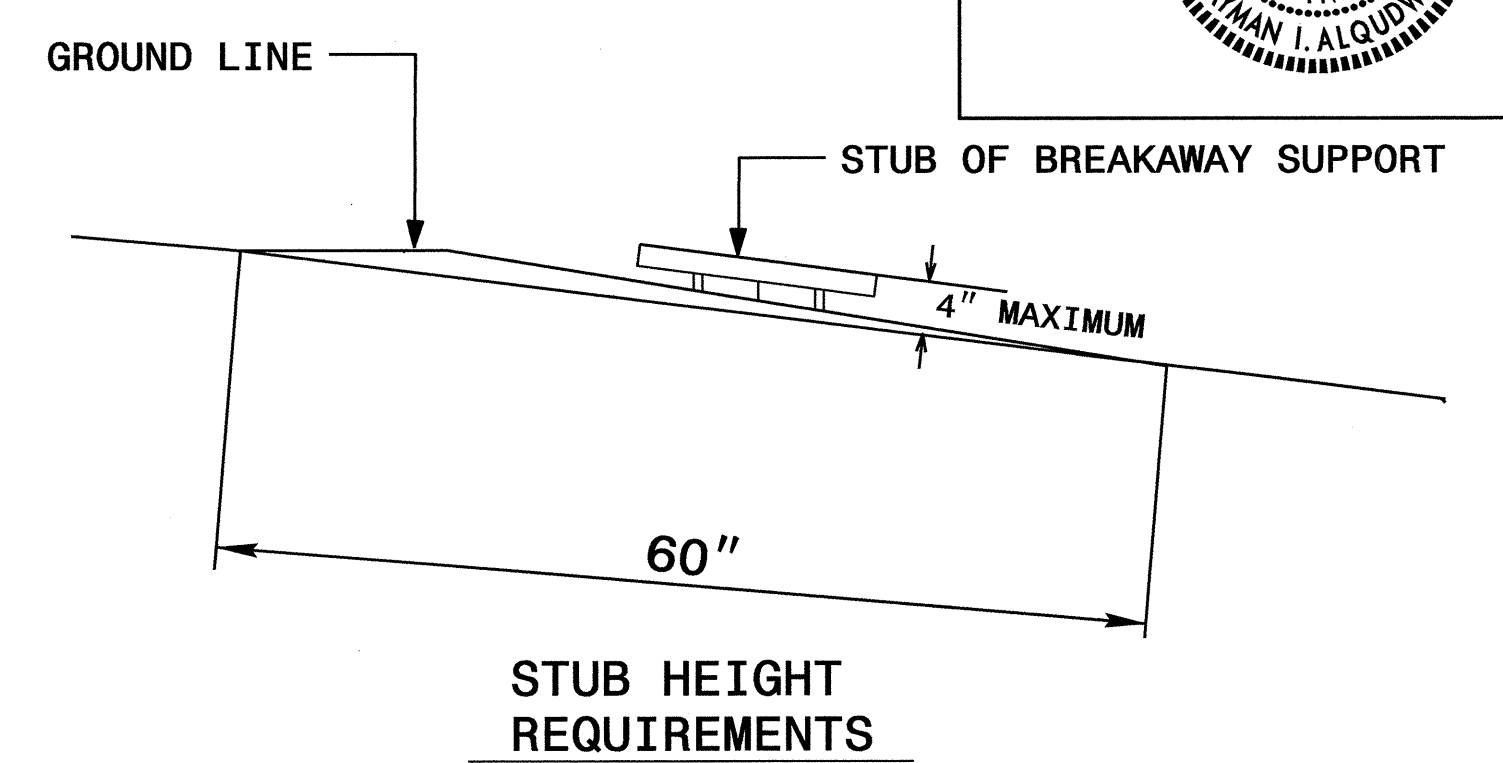
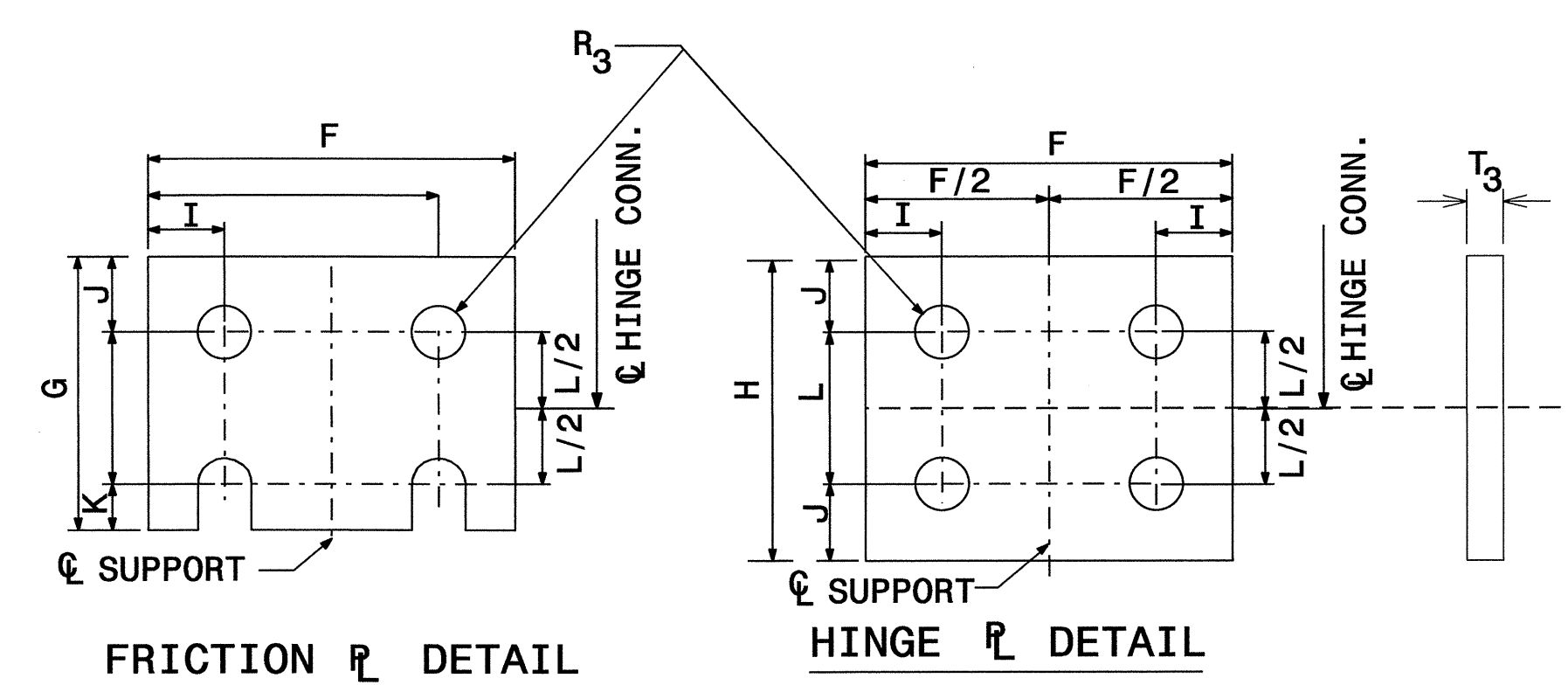
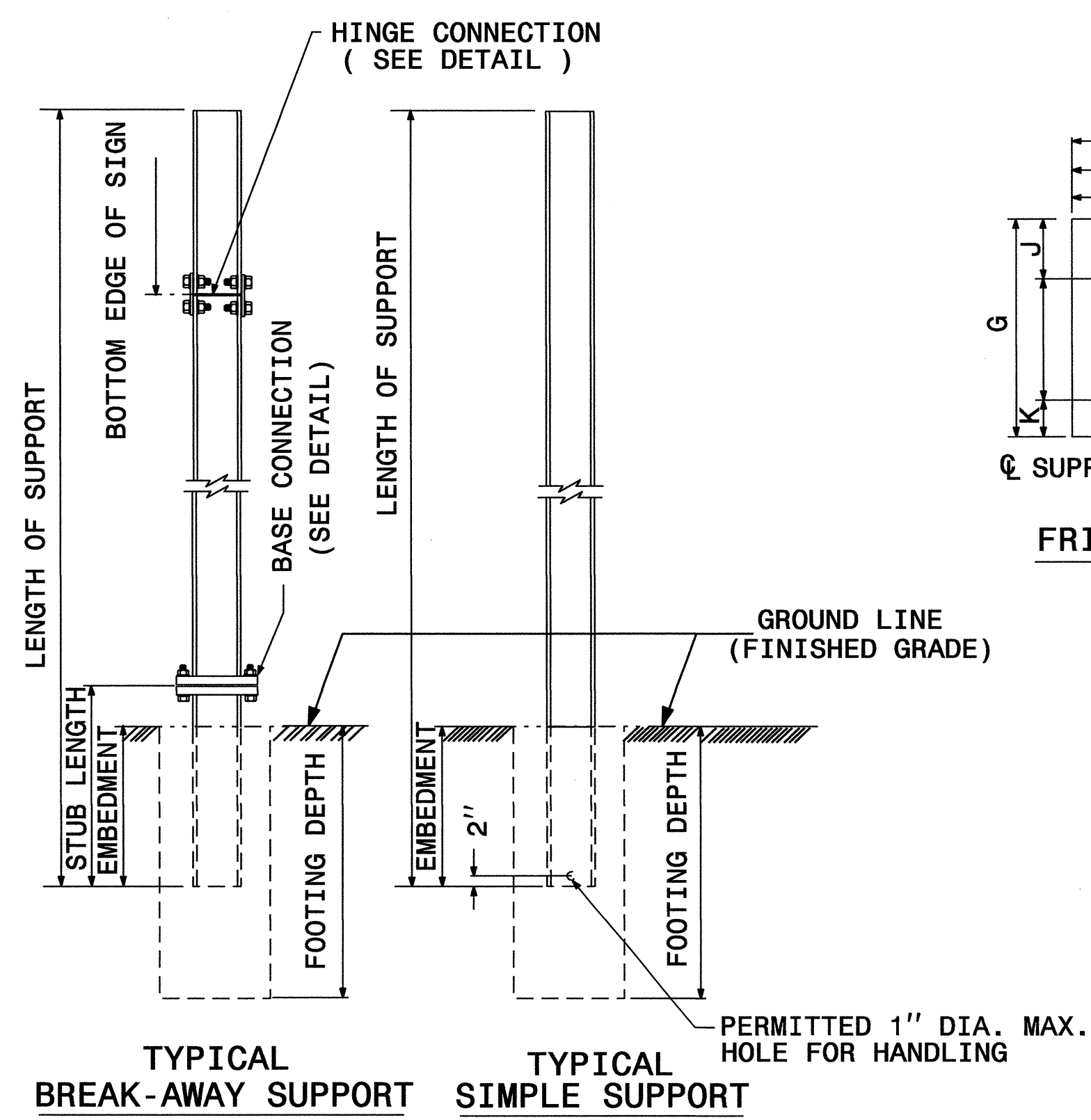
BEAM SHAPE	SLIP BASE PLATE DATA								KEEPER PLATE DATA								HINGE CONNECTION DATA								BREAK AWAY SUPPORT WEIGHT CONSTANT LBS.	
	BOLT SIZE	A ₁	B ₁	C ₁	D ₁	E ₁	T ₁	R ₁	A ₂	B ₂	C ₂	D ₂	E ₂	R ₂	T ₂	BOLT SIZE	F	G	H	I	J	K	L	R ₃		T ₃
S3X5.7	1/2"DIA. X 3"	7"	4"	1"	3/4"	2 1/2"	1"	9/32"	7"	4"	1"	3/4"	2 1/2"	9/32"	28 GAUGE	1/2"DIA. X 1 1/4"	2 1/4"	3 1/2"	4"	1 1/2"	1"	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. X 1 1/4"	2 5/8"	3 1/2"	4"	1 1/2"	1"	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. X 1 1/4"	4"	3 1/2"	4"	3/4"	1"	1 1/2"	2"	9/32"	3/8"	32
W6X12	5/8"DIA. X 3 3/4"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/4"	1 1/32"	11"	5"	1 1/4"	7/8"	3 1/4"	1 1/32"	28 GAUGE	5/8"DIA. X 2 1/4"	4"	4"	4 1/2"	3/4"	1 1/8"	5/8"	2 1/4"	1 1/32"	3/8"	39
W6X16	5/8"DIA. X 3 3/4"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/2"	1 1/32"	12"	6"	1 1/4"	7/8"	4 1/4"	1 1/32"	28 GAUGE	5/8"DIA. X 2 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. X 2 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. X 2 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. X 2 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. X 4 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. X 2 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. X 4 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. X 2 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. X 3"	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. X 3 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. X 3 1/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	3/4"	243
W18X40	1"DIA. X 5 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. X 3 3/4"	6"	7"	8"	1 1/4"	2"	1"	4"	1 7/32"	7/8"	278
W21X44	1"DIA. X 5 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. X 3 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

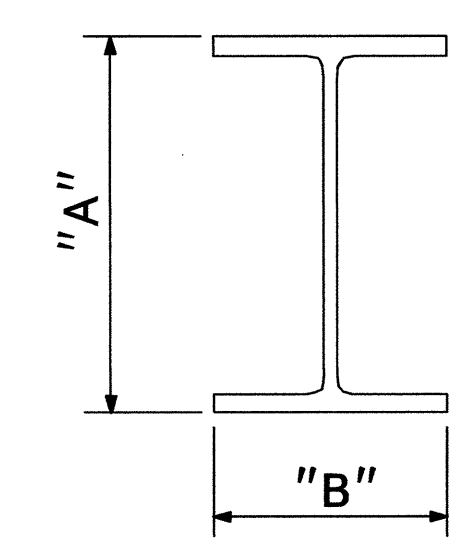
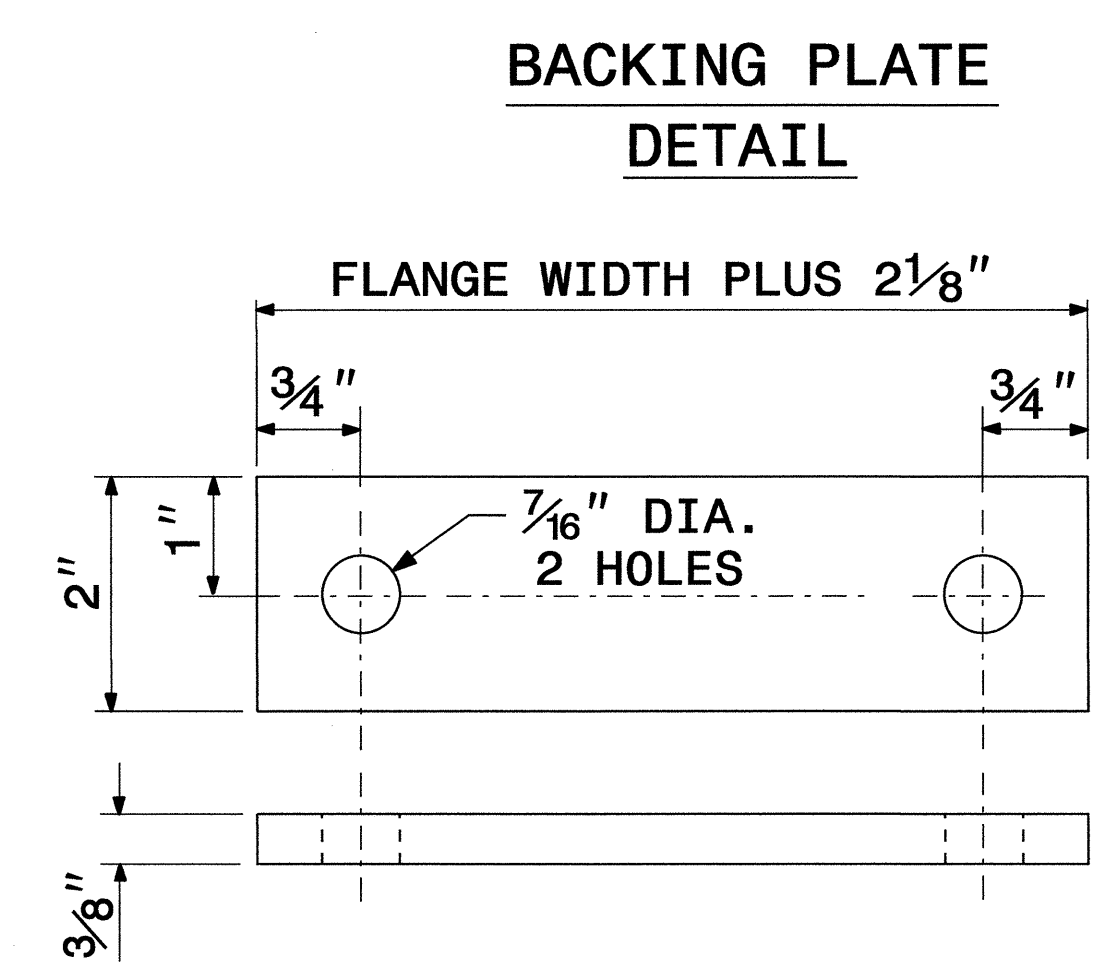
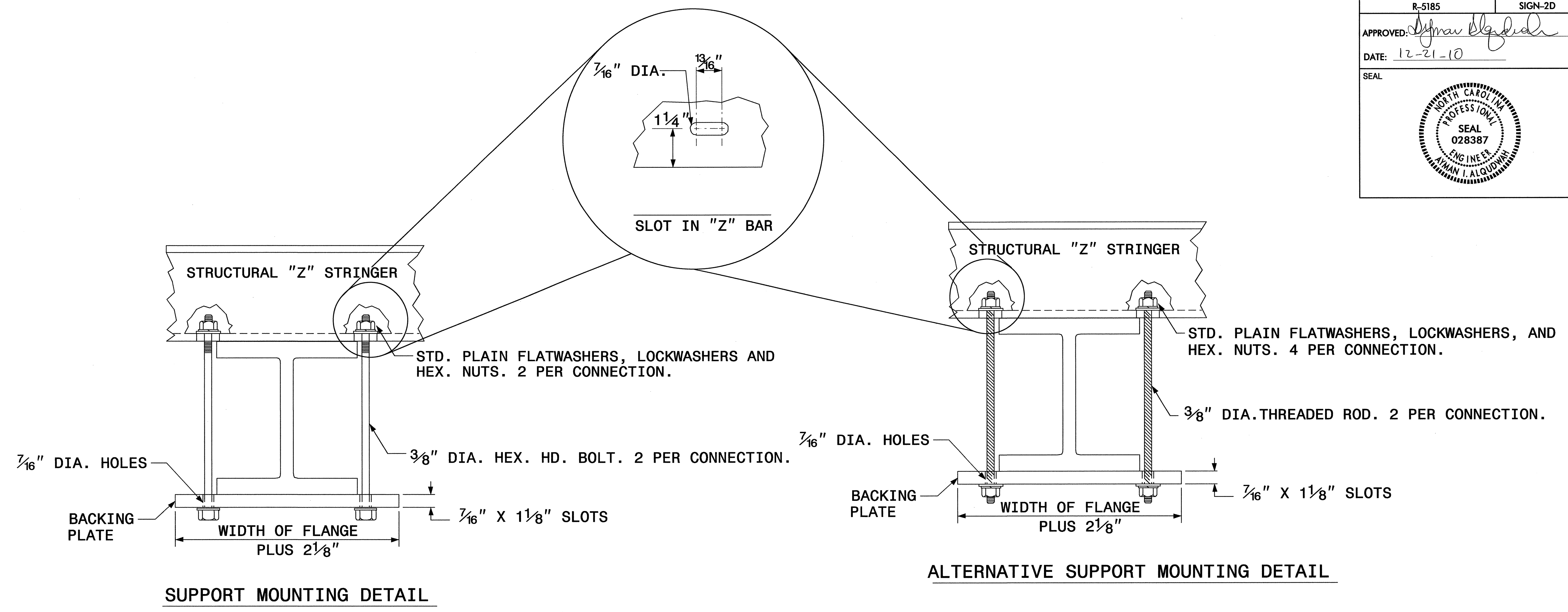
* FOUNDATION DIMENSIONS ARE SHOWN IN PLANS SEE SHEET SIGN-8 FOR NOTES.

GROUND MOUNTED SIGN SUPPORT



SEE SHEET SIGN-7 FOR DIMENSIONS.
SEE SHEET SIGN-8 FOR NOTES.

GROUND MOUNTED SIGN SUPPORT



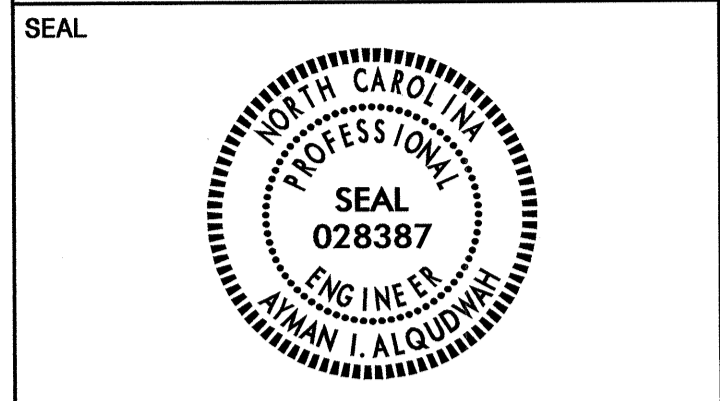
SIGN SUPPORTS SECTION DIMENSIONS

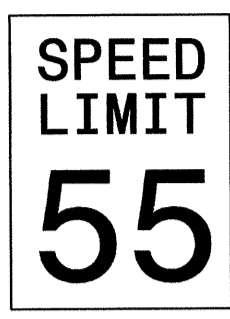
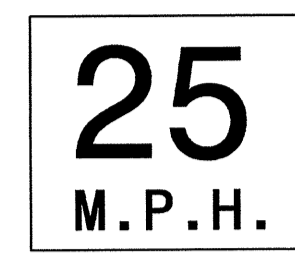
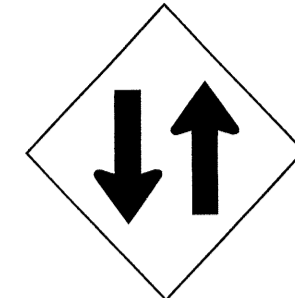
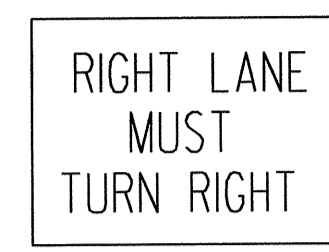
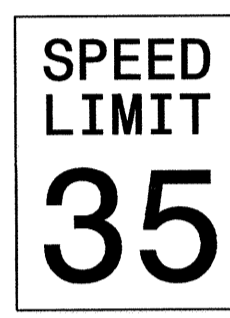
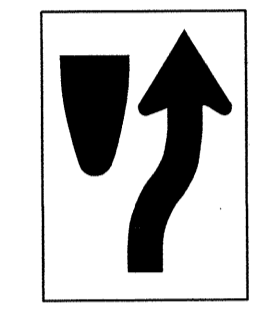
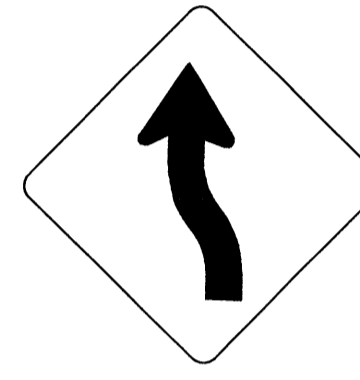
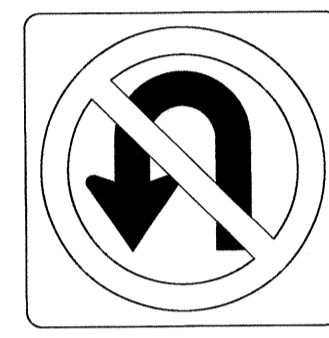
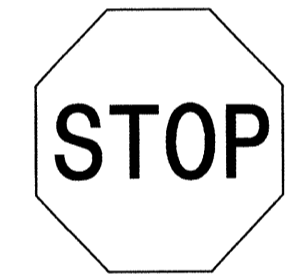
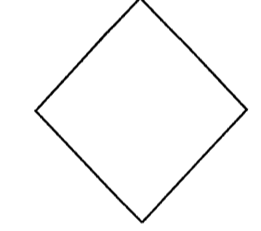
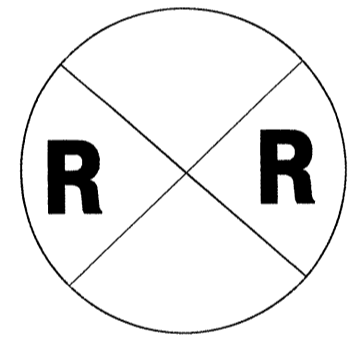
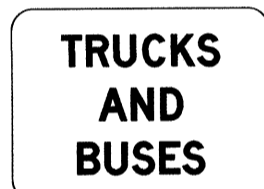

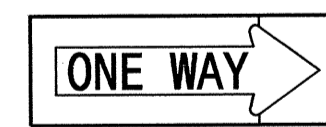

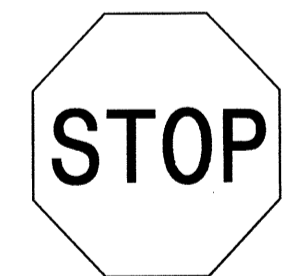
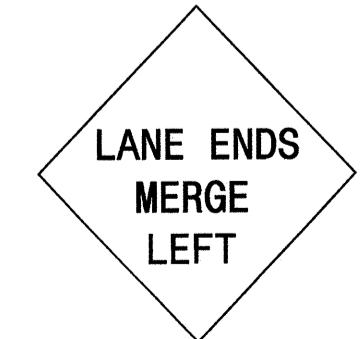
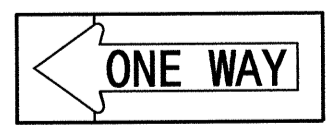
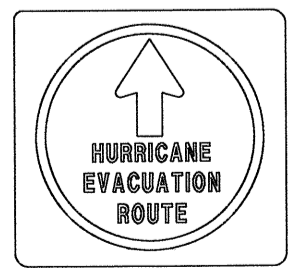
SECTION	A	B
S3 X 5.7	3"	2 3/8"
S4 X 7.7	4"	2 5/8"
W6 X 9	6"	4"
W6 X 12	6"	4"
W6 X 16	6 1/4"	4"
W8 X 18	8 1/8"	5 1/4"
W8 X 21	8 1/4"	5 1/4"
W10 X 22	10 1/8"	5 3/4"
W10 X 26	10 3/8"	5 3/4"
W12 X 26	12 1/4"	6 1/2"
W14 X 30	13 7/8"	6 3/4"
W16 X 31	15 7/8"	5 1/2"
W18 X 35	17 3/4"	6"
W18 X 40	17 7/8"	6"
W21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


APPROVED: *[Signature]*

DATE: 3-29-11



<p>401 QUANTITY REQ'D <u> 1 </u></p>  <p>30 X 36 R2-1</p> <p>ONE "U" POST PER SIGN</p>	<p>406 QUANTITY REQ'D <u> 1 </u></p>  <p>W13-1 18 X 18</p> <p>MOUNT BELOW SIGN #405 IN 1 INSTALLATION</p>	<p>414 QUANTITY REQ'D <u> 1 </u></p>  <p>36 X 36 W6-3</p> <p>ONE "U" POST PER SIGN</p>	<p>419 QUANTITY REQ'D <u> 1 </u></p>  <p>30 X 30 R3-7</p> <p>ONE "U" POST PER SIGN</p>		
<p>402 QUANTITY REQ'D <u> 3 </u></p>  <p>30 X 36 R2-1</p> <p>ONE "U" POST PER SIGN</p>	<p>408 QUANTITY REQ'D <u> 11 </u></p>  <p>18 X 30 R4-7C</p> <p>ONE "U" POST PER SIGN</p>	<p>415 QUANTITY REQ'D <u> 1 </u></p>  <p>30 X 30 W1-4</p> <p>ONE "U" POST PER SIGN</p>	<p>420 QUANTITY REQ'D <u> 4 </u></p>  <p>24 X 24 R3-4</p> <p>ONE "U" POST PER SIGN</p>		
<p>403 QUANTITY REQ'D <u> 5 </u></p>  <p>30 X 30 R1-1</p> <p>ONE "U" POST PER SIGN</p>	<p>409 QUANTITY REQ'D <u> 11 </u></p>  <p>18 X 18 OM1-3</p> <p>MOUNT BELOW SIGN #408 IN 9 INSTALLATIONS</p>	<p>416 QUANTITY REQ'D <u> 1 </u></p>  <p>36 X 36 W10-1</p> <p>ONE "U" POST PER SIGN</p>	<p>421 QUANTITY REQ'D <u> 4 </u></p>  <p>24 X 18 SEE SIGN DESIGN (SHEET SIGN-3A)</p> <p>MOUNT BELOW SIGN #420 IN 4 INSTALLATIONS</p>		
<p>404 QUANTITY REQ'D <u> 1 </u></p>  <p>36 X 36 W3-5</p> <p>ONE "U" POST PER SIGN</p>	<p>410 QUANTITY REQ'D <u> 4 </u></p>  <p>54 X 18 R6-1 (R)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>417 QUANTITY REQ'D <u> 1 </u></p>  <p>24 X 36 R3-9B</p> <p>ONE "U" POST PER SIGN</p>	<p>422 QUANTITY REQ'D <u> 1 </u></p>  <p>36 X 36 R1-1</p> <p>ONE "U" POST PER SIGN</p>		
<p>405 QUANTITY REQ'D <u> 1 </u></p>  <p>36 X 36 W9-2L</p> <p>ONE "U" POST PER SIGN</p>	<p>411 QUANTITY REQ'D <u> 7 </u></p>  <p>54 X 18 R6-1 (L)</p> <p>TWO "U" POSTS PER SIGN</p>	<p>418 QUANTITY REQ'D <u> 1 </u></p>  <p>24 X 24 EM-1</p> <p>MOUNT BELOW SIGN #502 IN 1 INSTALLATION</p>			

TYPE "E" SIGNS

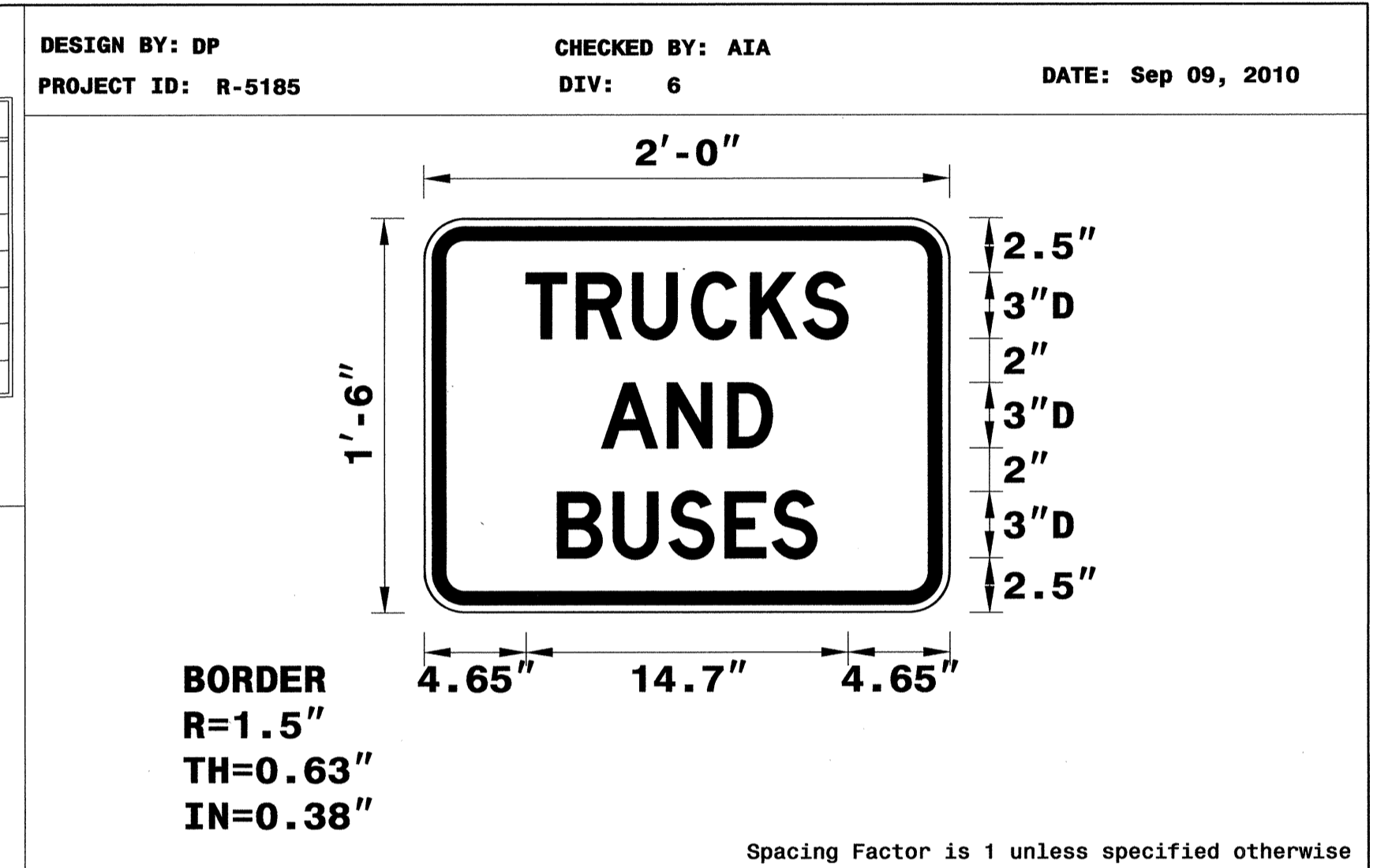
TIP NO. R-5185	SHEET NO. SIGN-3A
APPROVED: <i>[Signature]</i>	
DATE: 12-21-10	
SEAL	
	

SIGN NUMBER: 421
 TYPE: E
 QUANTITY: 4
 SIGN WIDTH: 2'-0"
 HEIGHT: 1'-6"
 TOTAL AREA: 3.0 Sq.Ft.
 BORDER TYPE: RECESSED
 RECESS: 0.38"
 WIDTH: 0.63"
 RADII: 1.5"
 NO. Z BARS:
 LENGTH:

BACKG COLOR: White
 COPY COLOR: Black

SYMBOL	X	Y	WID	HT

MAT'L: 0.063" (1.6 mm) ALUMINUM



USE NOTES:

- Legend and border shall be direct applied Grade C sheeting.
- Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter spacings are to start of next letter

	T	R	U	C	K	S															Series/Size Text Length
4.65	2.3	2.6	2.7	2.7	2.4	2	4.65														D 2000 14.7
	A	N	D																		D 2000 7.8
8.1	3	2.8	2	8.1																	D 2000 11.9
	B	U	S	E	S																
6.1	2.5	2.5	2.5	2.2	2	6.1															

FILENAME: r2510a_sgn_guidsign

NORTH CAROLINA D.O.T. SIGN DETAIL

TYPE "E" SIGNS

APPROVED: *[Signature]*

DATE: 12-21-10



501

SOUTH	EAST	2-24 X 12
1-30 X 24 421	1-24 X 24 27	

TWO "U" POSTS PER SIGN

502

NORTH	1-24 X 12
210	1-24 X 24

ONE "U" POST PER SIGN

503

504

NORTH	1-24 X 12
401	1-30 X 24

ONE "U" POST PER SIGN

505

NORTH	EAST	2-24 X 12
210	27	2-24 X 24
↑	↗	2-21 X 15
NORTH	SOUTH	2-24 X 12
401	421	2-30 X 24
↙	↘	2-21 X 15

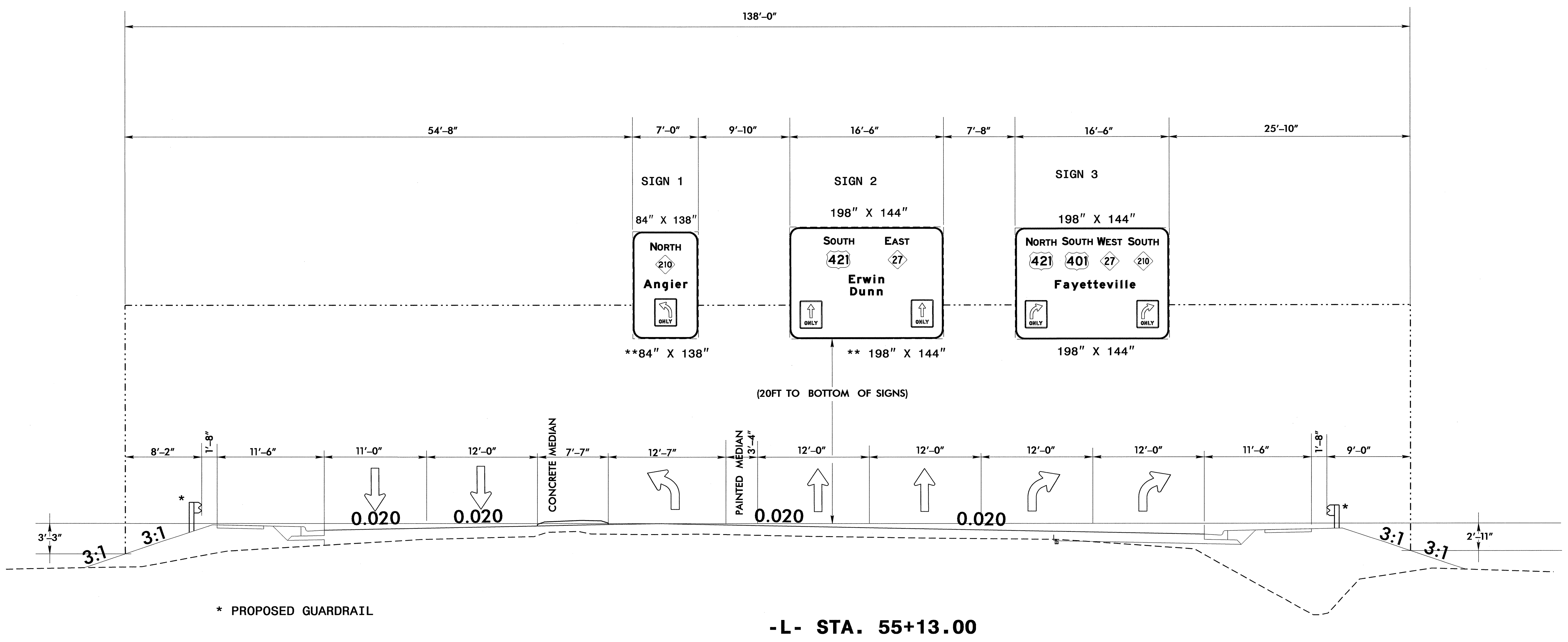
TWO "U" POSTS PER SIGN

TYPE "F" SIGNS



- NOTES:
- IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
 - SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
 - MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
 - FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS AND SLOPES AT SUPPORTS. 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.

****THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 MPH.**

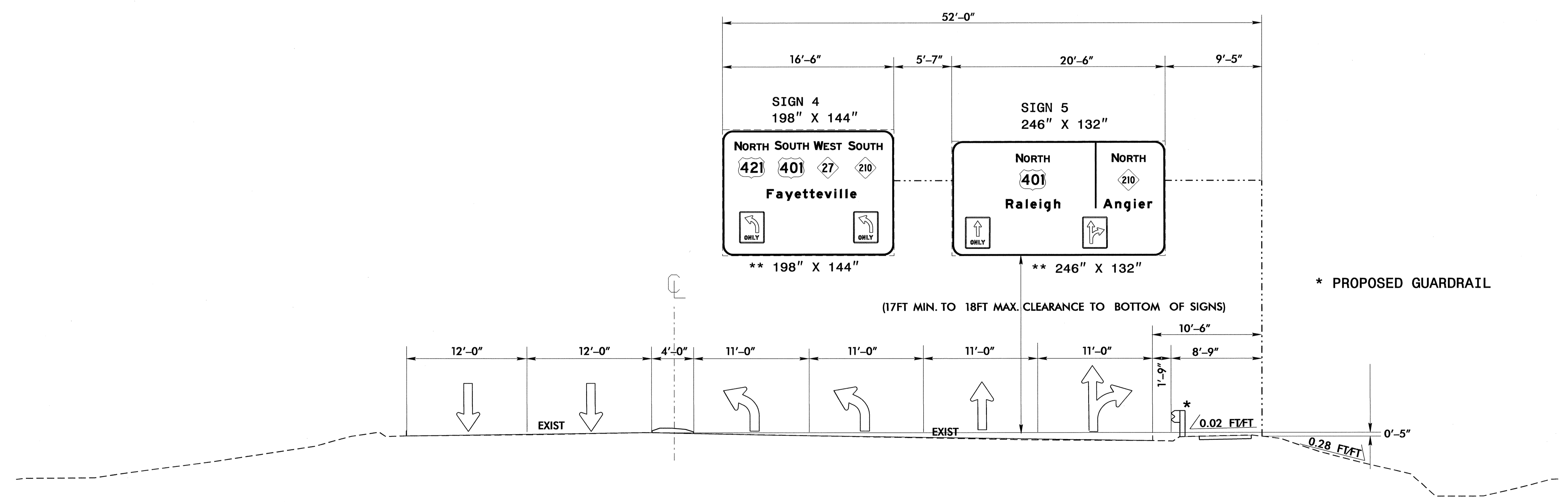


**OVERHEAD SIGN ASSEMBLY AT
-L- STA. 55+13.00**

NOTES:

1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
3. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
4. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS AND SLOPES AT SUPPORTS. PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
5. 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.

**** THESE DIMENSIONS SHALL BE USED FOR WIND LOAD AND DEAD LOAD COMPUTATIONS IN DESIGN OF STRUCTURE AND FOOTINGS. DESIGN AND CONSTRUCT REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 MPH.**



-L- STA. 63+11.00

**OVERHEAD SIGN ASSEMBLY AT
-L- STA. 63+11.00**



SIGN NUMBER: 1 TYPE: A QUANTITY: 1 SIGN WIDTH: 7'-0" HEIGHT: 11'-6" TOTAL AREA: 80.5 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 76.0	BACKG COLOR: Green COPY COLOR: White <table border="1"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td>M1-5-3-36-12D</td><td>29.6</td><td>83.6</td><td>24</td><td>24</td></tr> <tr><td></td><td>27.7</td><td>15.7</td><td>28.9</td><td>36.1</td></tr> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WID	HT	M1-5-3-36-12D	29.6	83.6	24	24		27.7	15.7	28.9	36.1	DESIGN BY: DP PROJECT ID: R-5185 CHECKED BY: AIA DIV: 6 DATE: Nov 10, 2010
SYMBOL	X	Y	WID	HT													
M1-5-3-36-12D	29.6	83.6	24	24													
	27.7	15.7	28.9	36.1													

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						Series/Size
Letter locations are panel edge to lower left corner						Text Length
N	O	R	T	H		E 2000
22.8	31.9	40.4	47.8	55.1		38.9
A	n	g	i	e	r	EM 2000
13.7	27.5	37.8	49.2	54.6	64.9	56.6

FILENAME: R_5185_OverheadDesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 2 TYPE: A QUANTITY: 1 SIGN WIDTH: 16'-6" HEIGHT: 12'-0" TOTAL AREA: 198.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 190.0	BACKG COLOR: Green COPY COLOR: White <table border="1"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td>M1_4</td><td>47.6</td><td>89.9</td><td>30</td><td>24</td></tr> <tr><td>M1-5-2-36-15C</td><td>126.9</td><td>90.1</td><td>24</td><td>24</td></tr> <tr><td></td><td>156.2</td><td>14.4</td><td>44.3</td><td>41.5</td></tr> <tr><td></td><td>12.9</td><td>13.1</td><td>44.3</td><td>41.5</td></tr> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WID	HT	M1_4	47.6	89.9	30	24	M1-5-2-36-15C	126.9	90.1	24	24		156.2	14.4	44.3	41.5		12.9	13.1	44.3	41.5	DESIGN BY: DP PROJECT ID: R-5185 CHECKED BY: AIA DIV: 6 DATE: Nov 10, 2010
SYMBOL	X	Y	WID	HT																							
M1_4	47.6	89.9	30	24																							
M1-5-2-36-15C	126.9	90.1	24	24																							
	156.2	14.4	44.3	41.5																							
	12.9	13.1	44.3	41.5																							

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						Series/Size
Letter locations are panel edge to lower left corner						Text Length
S	O	U	T	H		E 2000
43.7	52.8	61.3	69.2	76.5		39.3
E	A	S	T			E 2000
123.2	131.7	140.7	148.1			30.9
E	r	w	i	n		EM 2000
76.3	87.2	93.9	108	114.4		45.2
D	u	n	n			EM 2000
78.1	89.7	101.1	112.4			41.4

FILENAME: R_5185_OverheadDesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 3 TYPE: A QUANTITY: 1 SIGN WIDTH: 16'-6" HEIGHT: 12'-0" TOTAL AREA: 198.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 2" RADII: 12" NO. Z BARS: 3 LENGTH: 190.0	BACKG COLOR: Green COPY COLOR: White <table border="1"> <tr><th>SYMBOL</th><th>X</th><th>Y</th><th>WID</th><th>HT</th></tr> <tr><td>M1_4</td><td>18.2</td><td>88.9</td><td>30</td><td>24</td></tr> <tr><td>M1_4</td><td>64.1</td><td>88.6</td><td>30</td><td>24</td></tr> <tr><td>M1-5-2-36-15C</td><td>109.6</td><td>88.9</td><td>24</td><td>24</td></tr> <tr><td>NC383A</td><td>153</td><td>88.9</td><td>24</td><td>24</td></tr> <tr><td></td><td>12.3</td><td>14.4</td><td>28.8</td><td>36</td></tr> <tr><td></td><td>156.1</td><td>14.4</td><td>28.8</td><td>36</td></tr> </table> MAT'L: 0.125" (3.2 mm) ALUMINUM	SYMBOL	X	Y	WID	HT	M1_4	18.2	88.9	30	24	M1_4	64.1	88.6	30	24	M1-5-2-36-15C	109.6	88.9	24	24	NC383A	153	88.9	24	24		12.3	14.4	28.8	36		156.1	14.4	28.8	36	DESIGN BY: DP PROJECT ID: R-5185 CHECKED BY: AIA DIV: 6 DATE: Nov 10, 2010
SYMBOL	X	Y	WID	HT																																	
M1_4	18.2	88.9	30	24																																	
M1_4	64.1	88.6	30	24																																	
M1-5-2-36-15C	109.6	88.9	24	24																																	
NC383A	153	88.9	24	24																																	
	12.3	14.4	28.8	36																																	
	156.1	14.4	28.8	36																																	

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						Series/Size						
Letter locations are panel edge to lower left corner						Text Length						
N	O	R	T	H		E 2000						
14.1	23.2	31.8	39.1	46.5		38.9						
S	O	U	T	H		E 2000						
60.3	69.4	77.9	85.8	93.1		39.3						
W	E	S	T			E 2000						
105.5	117.1	124.2	131.6			32.1						
S	O	U	T	H		E 2000						
145.4	154.5	163	170.9	178.2		39.3						
F	a	y	e	t	t	EM 2000						
51.1	62	72.2	83.4	92.7	100.6	109.7	117.9	129.2	135.6	142	147.5	103.5

FILENAME: R_5185_OverheadDesigns NORTH CAROLINA D.O.T. SIGN DETAIL



SIGN NUMBER: 301 TYPE: D QUANTITY: 1 SIGN WIDTH: 8'-0" HEIGHT: 2'-0" TOTAL AREA: 16.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.5" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT ARUP 82.4 9 6 9	DESIGN BY: DP PROJECT ID: R-5185 CHECKED BY: AIA DIV: 6 DATE: Nov 10, 2010
---	---	--

USE NOTES: 1,2
1. Legend and border shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner													Series/Size							
													Text Length							
H	a	r	n	e	t	C	o	u	n	t	y		C 2000							
18.4	22.7	26.6	29.2	33.1	36.5	38.7	40.9	46.9	51.2	55.1	59.2	62.8	65.1							
J	o	b	l	i	n	k	C	a	r	e	e	r	C	e	n	t	e	r		C 2000
4.3	8.4	12.3	16.3	18.2	20.1	24.2	27.4	33.4	37.6	41.5	43.9	47.6	51.4	53.4	59.4	63.7	67.5	71.1	73.7	77.5

FILENAME: R5185_SignDesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 303 TYPE: D QUANTITY: 1 SIGN WIDTH: 6'-0" HEIGHT: 1'-6" TOTAL AREA: 9.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.5" RADII: 3" NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT ARUP 58.6 5.9 6 9	DESIGN BY: DP PROJECT ID: R-5185 CHECKED BY: AIA DIV: 6 DATE: Nov 10, 2010
--	---	--

USE NOTES: 1,2
1. Legend and border shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner													Series/Size
													Text Length
C	a	m	p	b	e	l	l	U	n	i	v		C 2000
4.4	8.5	12.4	18.5	22.5	26.2	30.1	32	32.8	38.8	43.4	47.5	49	

FILENAME: R5185_SignDesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 302 TYPE: D QUANTITY: 1 SIGN WIDTH: 8'-0" HEIGHT: 3'-0" TOTAL AREA: 24.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.5" RADII: 6" NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT ARUP 79.6 14.9 6 9	DESIGN BY: DP PROJECT ID: R-5185 CHECKED BY: AIA DIV: 6 DATE: Nov 10, 2010
---	--	--

USE NOTES: 1,2
1. Legend and border shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner																		Series/Size
																		Text Length
C	e	n	t	r	a	i	C	a	r	o	l	i	n	a				C 2000
7.4	11.6	15.5	19.1	21.8	24.2	28.1	28.9	34.9	39.1	43	45.4	49.4	51.3	53.2	57			52.5
C	o	m	m	u	n	i	t	y	C	o	l	l	e	g	e			C 2000
7.5	11.8	15.7	21.8	27.8	31.9	36	37.4	39.8	43.5	49.5	53.8	57.7	59.6	61.4	65	69		64.6
H	a	r	n	e	t	C	o											C 2000
7.6	11.9	15.8	18.4	22.3	25.7	28	30.1	36.1	40.4	43.5	49.5	53.6	57.5	63.6	67.5	71.3		66.2

FILENAME: R5185_SignDesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 304 TYPE: D QUANTITY: 1 SIGN WIDTH: 5'-0" HEIGHT: 3'-0" TOTAL AREA: 15.0 Sq.Ft. BORDER TYPE: FLUSH RECESS: 0" WIDTH: 0.75" RADII: 6" NO. Z BARS: LENGTH:	BACKG COLOR: Green COPY COLOR: White SYMBOL X Y WID HT ARMED 9.3 26 6 9.5 ARMED 38.5 8.3 6 9.5	DESIGN BY: DP PROJECT ID: R-5185 CHECKED BY: AIA DIV: 6 DATE: Nov 10, 2010
--	--	--

USE NOTES: 1,2
1. Legend and border shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

LETTER POSITIONS

Letter locations are panel edge to lower left corner													Series/Size
													Text Length
R	a	l	e	i	g	h							D 2000
24.9	29.5	34.1	36	40.4	42.3	47.1							25.8
E	r	w	i	n									D 2000
12.2	16.9	19.4	26.9	29									20.3
D	u	n	n										D 2000
13.2	18.5	23.2	27.9										18.2

FILENAME: R5185_SignDesigns NORTH CAROLINA D.O.T. SIGN DETAIL



SIGN NUMBER: 311
TYPE: D
QUANTITY: 1
SIGN WIDTH: 7'-0"
HEIGHT: 2'-0"
TOTAL AREA: 14.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.5"
RADIUS: 3"
NO. Z BARS: LENGTH:

BACKG COLOR: Green
COPY COLOR: White
SYMBOL X Y WID HT
ARUP 5.3 9.6 6 9
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: DP
PROJECT ID: R-5185
CHECKED BY: AIA
DIV: 6
DATE: Nov 29, 2010

USE NOTES: 1,2
1. Legend and border shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner															Series/Size	
															Text Length	
H	a	r	n	e	t	t	C	e	n	t	r	a	i			C 2000
23.9	28.1	32	34.7	38.6	41.9	44.2	46.4	52.4	56.6	64.1	66.8	69.2	73.1			50
M	i	d	d	i	e	/	H	i	g	h	S	c	h	s		C 2000
18.2	23.4	25.1	29.1	33.2	35	39	45.1	49.7	51.4	55.6	58.6	64.6	68.7	72.4	76.2	60.5

FILENAME: R5185_SignDesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 313
TYPE: D
QUANTITY: 1
SIGN WIDTH: 8'-0"
HEIGHT: 3'-0"
TOTAL AREA: 24.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.5"
RADIUS: 6"
NO. Z BARS: LENGTH:

BACKG COLOR: Green
COPY COLOR: White
SYMBOL X Y WID HT
ARUP 8.8 13 6 9
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: DP
PROJECT ID: R-5185
CHECKED BY: AIA
DIV: 6
DATE: Nov 29, 2010

USE NOTES: 1,2
1. Legend and border shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner															Series/Size		
															Text Length		
C	e	n	t	r	a	i	C	a	r	o	l	i	n	a		C 2000	
20.8	25	28.9	32.5	35.2	37.6	41.5	42.3	48.3	52.5	56.4	58.8	62.8	64.7	66.6	70.4	52.5	
C	o	m	m	u	n	i	t	y	C	o	i	l	i	e	g	e	C 2000
20.9	25.2	29.1	35.2	41.2	45.3	49.4	50.8	53.2	56.9	62.9	67.2	71.1	73	74.8	78.4	64.6	
H	a	r	n	e	t	t	C	o	C	a	m	p	u	s		C 2000	
21	25.3	29.2	31.8	35.7	39.1	41.4	43.5	49.5	53.8	56.9	62.9	67	70.9	77	80.9	66.2	

FILENAME: R5185_SignDesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 312
TYPE: D
QUANTITY: 1
SIGN WIDTH: 8'-0"
HEIGHT: 2'-0"
TOTAL AREA: 16.0 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 0.5"
RADIUS: 3"
NO. Z BARS: LENGTH:

BACKG COLOR: Green
COPY COLOR: White
SYMBOL X Y WID HT
ARUP 4 7.6 6 9
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: DP
PROJECT ID: R-5185
CHECKED BY: AIA
DIV: 6
DATE: Nov 29, 2010

USE NOTES: 1,2
1. Legend and border shall be direct applied Grade C sheeting.
2. Background shall be Grade C reflective sheeting.

Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner															Series/Size						
															Text Length						
H	a	r	n	e	t	t	C	o	u	n	t	y				C 2000					
29	33.2	37.1	39.8	43.7	47	49.3	51.5	57.5	61.7	65.6	69.8	73.4	75.7			50.5					
J	o	b	i	i	n	k	C	a	r	e	e	r	C	e	n	t	e	r		C 2000	
16.4	20.5	24.5	28.4	30.4	32.3	36.4	39.6	45.6	49.7	53.6	56.1	59.8	63.6	65.6	71.6	75.8	79.7	83.3	85.9	89.7	75.2

FILENAME: R5185_SignDesigns NORTH CAROLINA D.O.T. SIGN DETAIL

SIGN NUMBER: 103
TYPE: A
QUANTITY: 1
SIGN WIDTH: 11'-6"
HEIGHT: 13'-0"
TOTAL AREA: 149.5 Sq.Ft.
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 1.5"
RADIUS: 12"
NO. Z BARS: 4
LENGTH: 130.0

BACKG COLOR: Green
COPY COLOR: White
SYMBOL X Y WID HT
ARMED 39.5 113.6 16 25.2
M1-5-3-24-8D 71.1 111.8 24 24
ARMED 33.1 64.9 16 25.2
M1_4 75.2 58.3 30 24
ARMED 98.8 12.8 16 25.2
M1_4 16.2 6.8 30 24
M1-5-2-24-10C 58.1 7.6 24 24
MAT'L: 0.125" (3.2 mm) ALUMINUM

DESIGN BY: DP
PROJECT ID: R-5185
CHECKED BY: AIA
DIV: 6
DATE: Nov 29, 2010

USE NOTES: 1,2,4
1. Legend and border shall be direct applied Grade C 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 C sheeting.

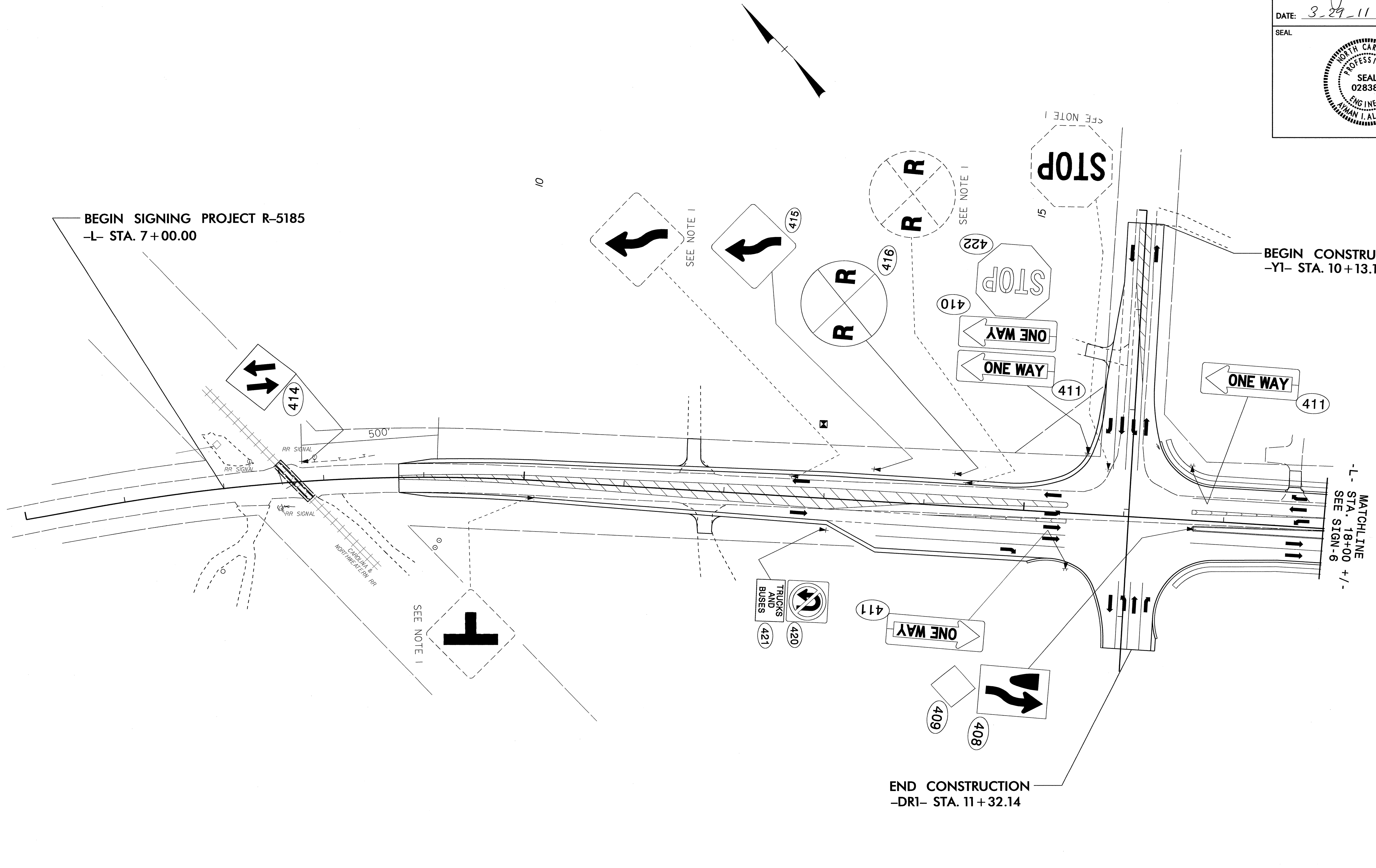
Spacing Factor is 1 unless specified otherwise

LETTER POSITIONS

Letter locations are panel edge to lower left corner										Series/Size
										Text Length
N	O	R	T	H						D 2000
67.2	74.4	81.8	87.9	94.1						32.3
N	O	R	T	H						D 2000
73.7	80.9	88.3	94.4	100.5						32.3
S	O	U	T	H						D 2000
13.6	20.3	27.7	34.3	40.5						32.3
E	A	S	T							D 2000
57.9	63.5	71	77.1							24.1

FILENAME: R5185_SignDesigns NORTH CAROLINA D.O.T. SIGN DETAIL

TIP NO. R-5185	SHEET NO. SIGN-5
APPROVED: <i>[Signature]</i>	
DATE: 3-29-11	
SEAL	



BEGIN SIGNING PROJECT R-5185
-L- STA. 7+00.00

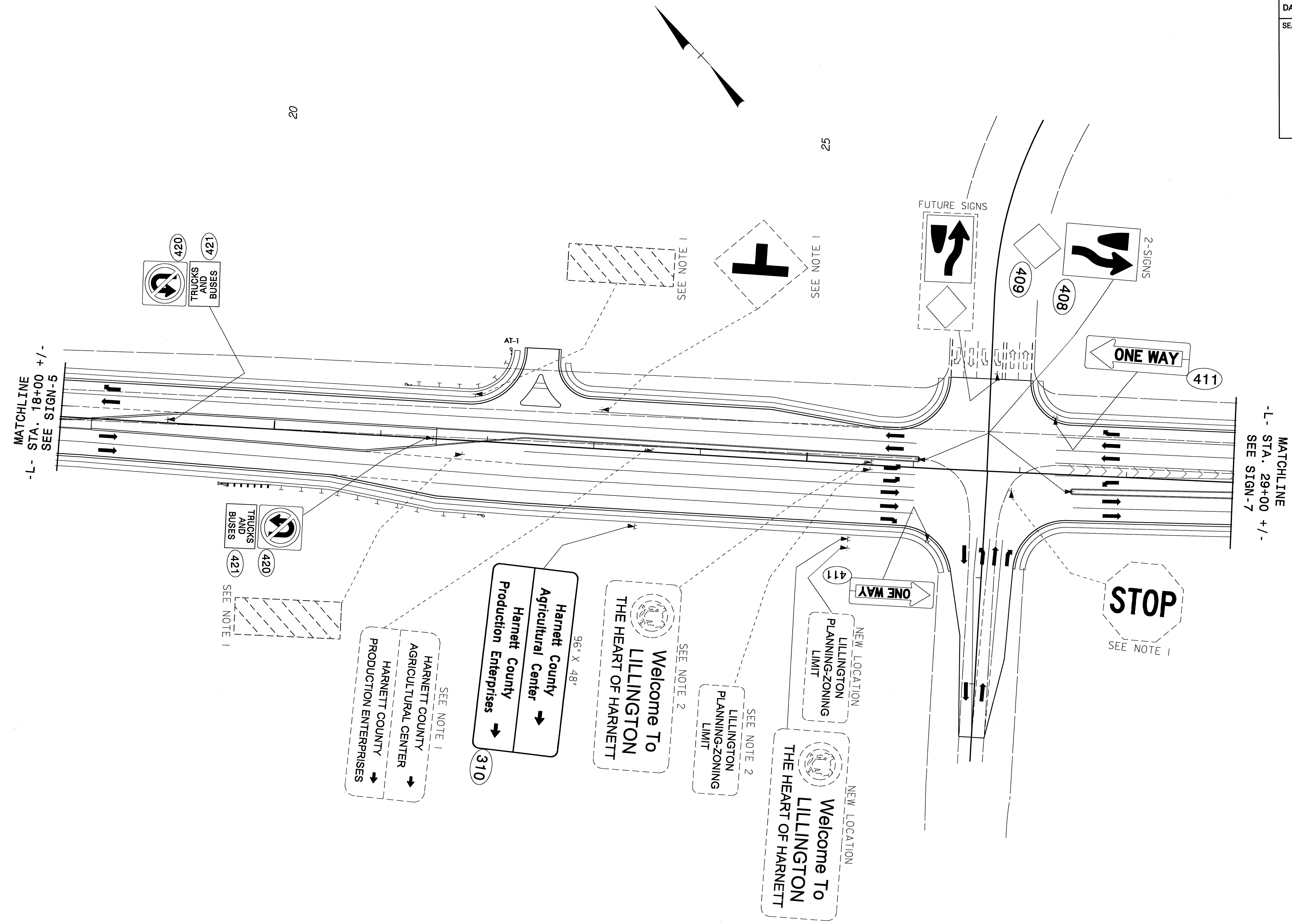
BEGIN CONSTRUCTION
-YI- STA. 10+13.12

END CONSTRUCTION
-DRI- STA. 11+32.14

MATCHLINE
-L- STA. 18+00 +/-
SEE SIGN-6

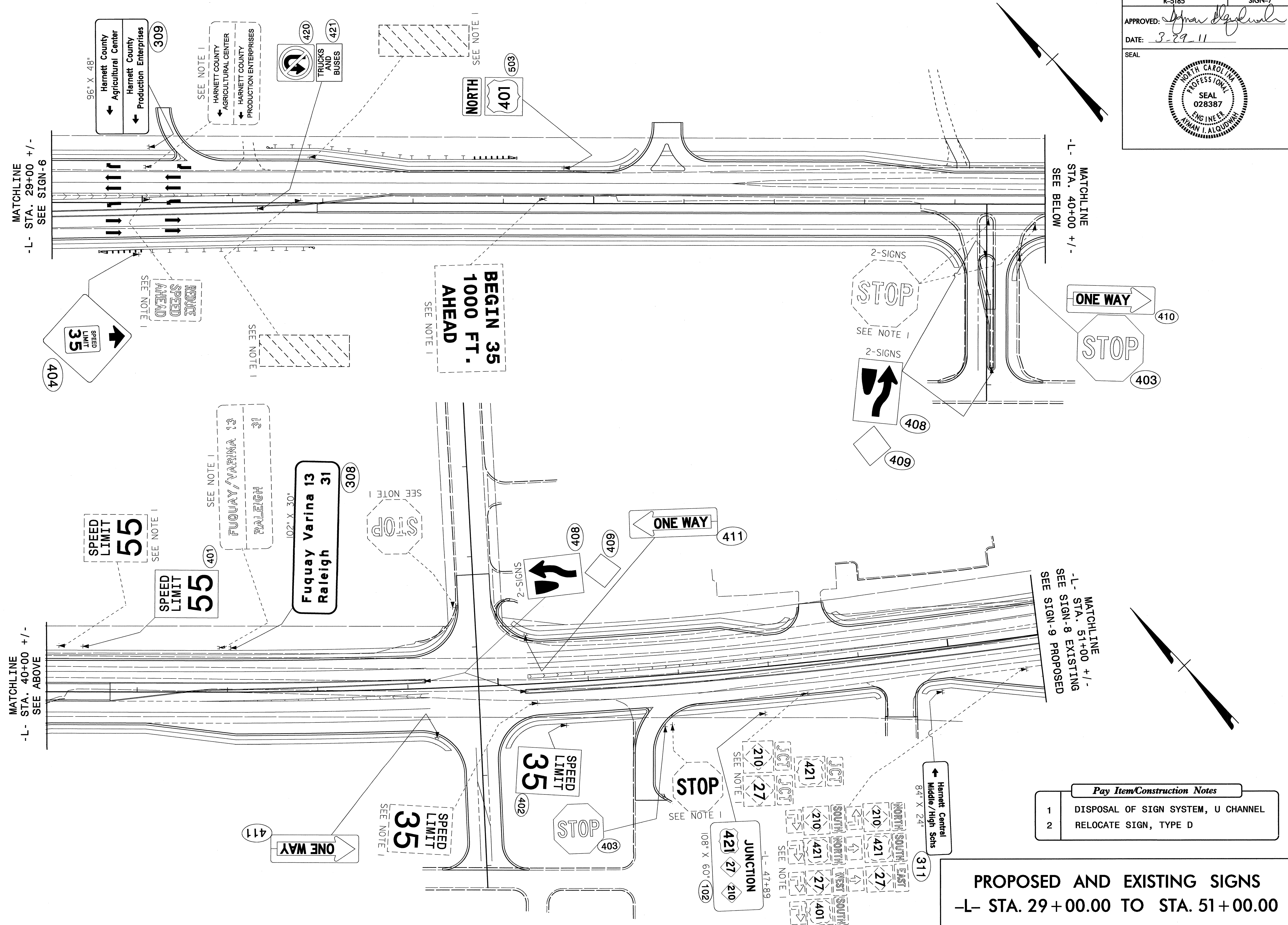
Pay Item/Construction Notes	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL
2	RELOCATE SIGN, TYPE D

PROPOSED AND EXISTING SIGNS
-L- STA. 7+00.00 TO STA. 18+00.00



Pay Item/Construction Notes	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL
2	RELOCATE SIGN, TYPE D

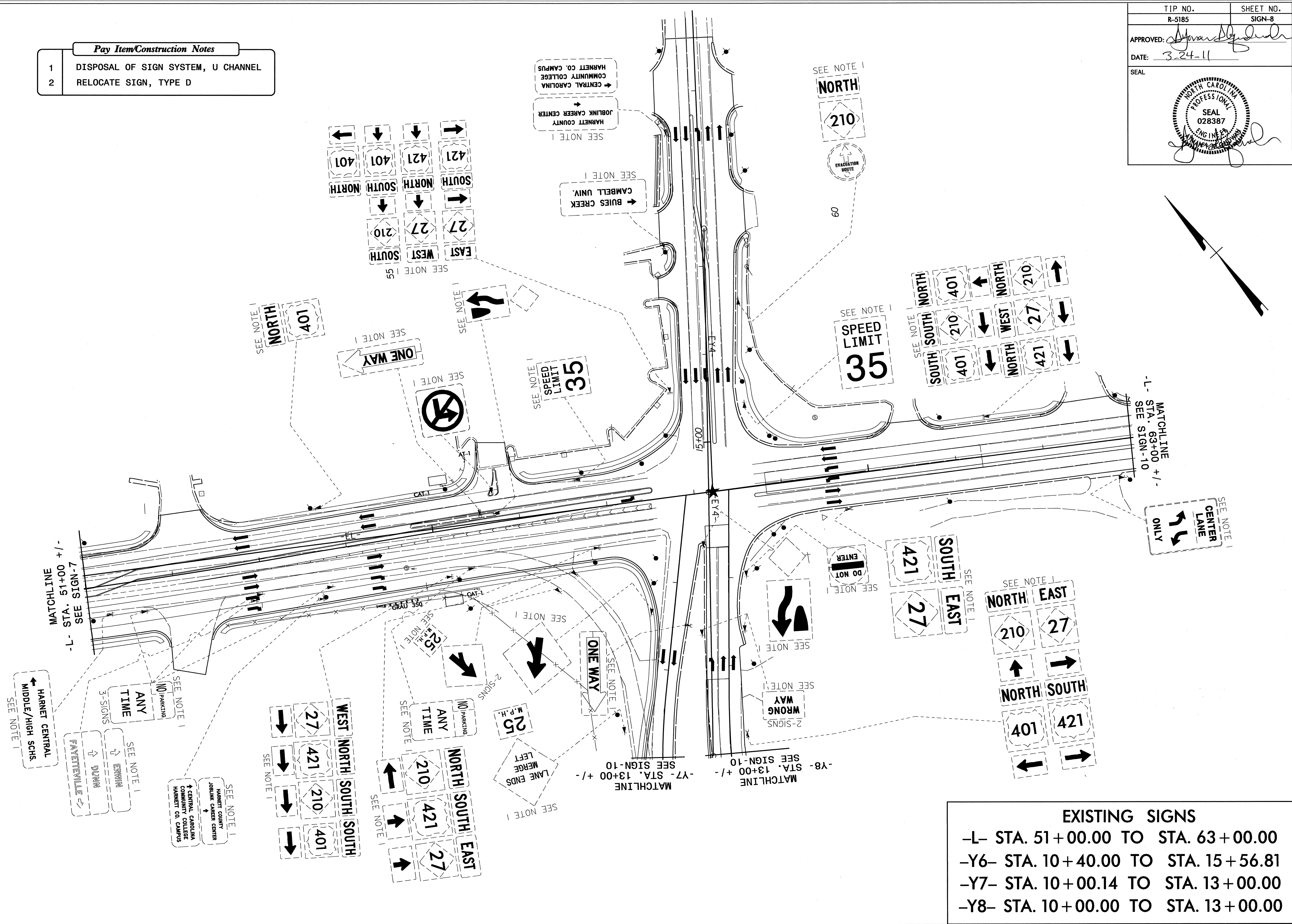
PROPOSED AND EXISTING SIGNS
 -L- STA. 18+00.00 TO STA. 29+00.00



Pay Item/Construction Notes	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL
2	RELOCATE SIGN, TYPE D

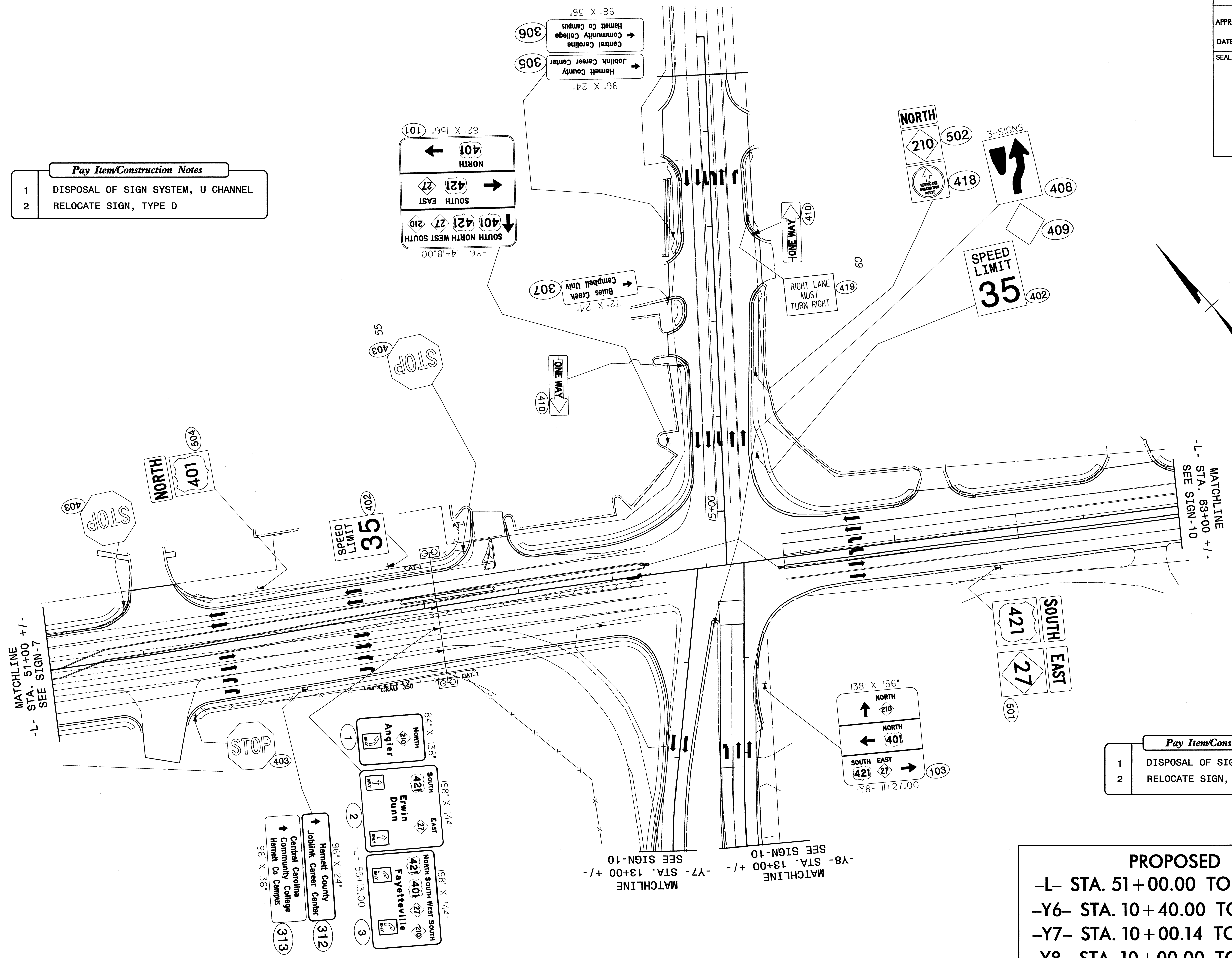
PROPOSED AND EXISTING SIGNS
-L- STA. 29+00.00 TO STA. 51+00.00

Pay Item/Construction Notes	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL
2	RELOCATE SIGN, TYPE D



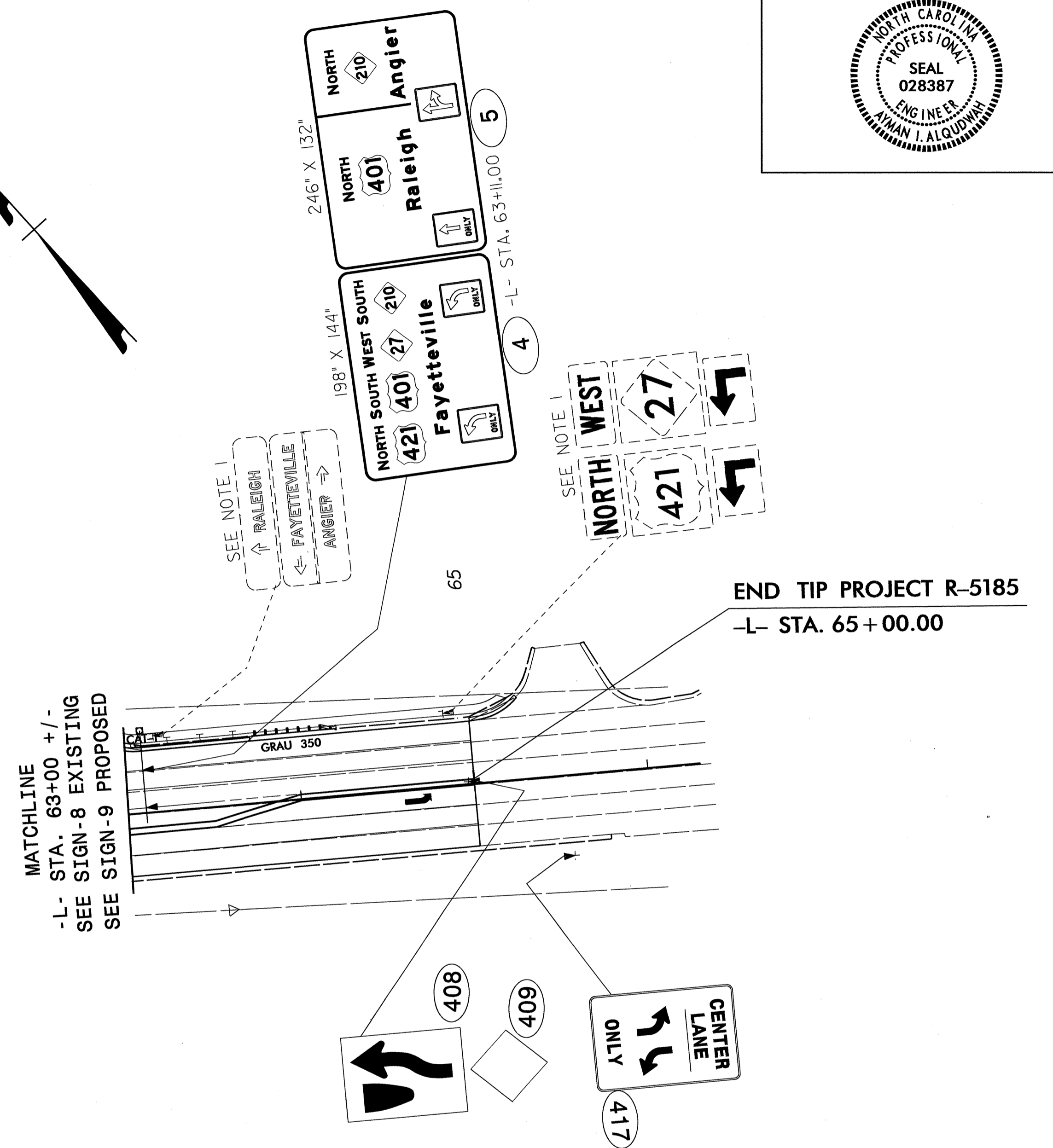
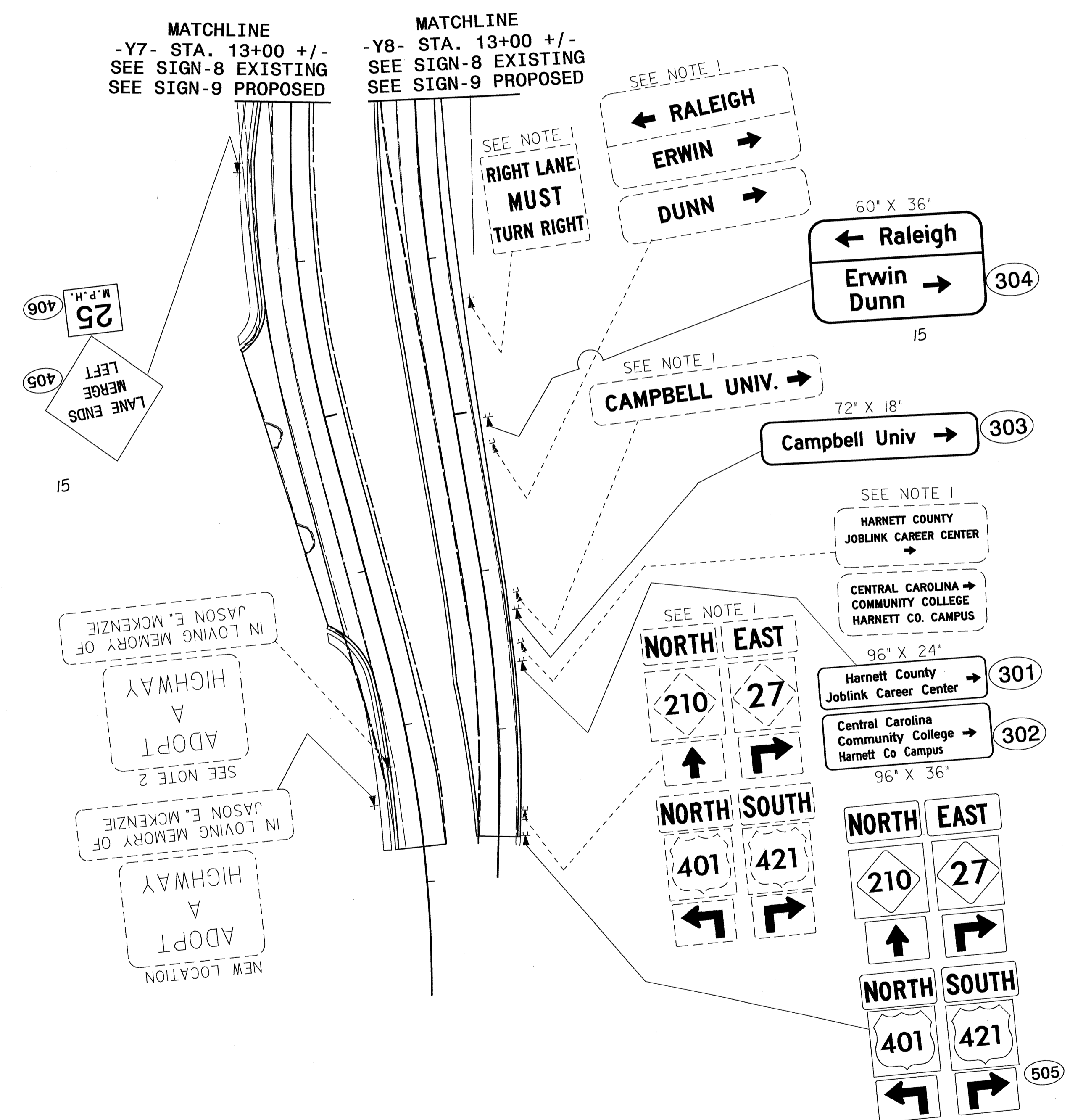
EXISTING SIGNS	
-L-	STA. 51+00.00 TO STA. 63+00.00
-Y6-	STA. 10+40.00 TO STA. 15+56.81
-Y7-	STA. 10+00.14 TO STA. 13+00.00
-Y8-	STA. 10+00.00 TO STA. 13+00.00

Pay Item/Construction Notes	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL
2	RELOCATE SIGN, TYPE D



Pay Item/Construction Notes	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL
2	RELOCATE SIGN, TYPE D

PROPOSED SIGNS	
-L-	STA. 51+00.00 TO STA. 63+00.00
-Y6-	STA. 10+40.00 TO STA. 15+56.81
-Y7-	STA. 10+00.14 TO STA. 13+00.00
-Y8-	STA. 10+00.00 TO STA. 13+00.00



Pay Item/Construction Notes	
1	DISPOSAL OF SIGN SYSTEM, U CHANNEL
2	RELOCATE SIGN, TYPE D

PROPOSED AND EXISTING SIGNS
 -L- STA. 63+00.00 TO STA. 65+00.00
 -Y7- STA. 13+00.00 TO STA. 17+78.00
 -Y8- STA. 13+00.00 TO STA. 17+68.00