

**STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION**

| | |
|----------------------------|----------------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-1 |
| APPROVED: | |
| DATE: 5/20/09 | |
| SEAL | |

SIGNING PLAN CUMBERLAND COUNTY

**LOCATION: NC 210 (MURCHISON ROAD) FROM FAYETTEVILLE OUTER LOOP
TO JUST NORTH OF HONEYCUTT RD.**

SUMMARY OF QUANTITIES

| ITEM NO. | | | QUANTITY | UNIT |
|------------|-----------|---|----------|------|
| DESC. NO. | SECT. NO. | ITEM DESCRIPTION | | |
| 4048000000 | 902 | REINFORCED CONCRETE SIGN FOUNDATION..... | 4 | C.Y. |
| 4054000000 | 902 | PLAIN CONCRETE SIGN FOUNDATION..... | 1 | C.Y. |
| 4057000000 | SP | OVERHEAD FOOTING..... | 84 | C.Y. |
| 4060000000 | 903 | SUPPORTS, BREAKAWAY STEEL BEAM..... | 3296 | LB. |
| 4072000000 | 903 | SUPPORTS, 3 LB STEEL U-CHANNEL..... | 1050 | L.F. |
| 4082100000 | SP | SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "32+00 -L-"..... | 1 | L.S. |
| 4082100000 | SP | SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "59+00 -L-"..... | 1 | L.S. |
| 4082100000 | SP | SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "25+00 -Y2RPC-"..... | 1 | L.S. |
| 4082100000 | SP | SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "20+50 -Y2-"..... | 1 | L.S. |
| 4082100000 | SP | SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "26+70 -Y2-"..... | 1 | L.S. |
| 4082100000 | SP | SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "31+00 -Y2-"..... | 1 | L.S. |
| 4082100000 | SP | SUPPORTS, OVERHEAD SIGN STRUCTURE AT STATION "32+70 -Y2RPA-"..... | 1 | L.S. |
| 4102000000 | 904 | SIGN ERECTION, TYPE E..... | 43 | EA. |
| 4108000000 | 904 | SIGN ERECTION, TYPE F..... | 5 | EA. |
| 4110000000 | 904 | SIGN ERECTION, TYPE A (GROUND MOUNTED)..... | 6 | EA. |
| 4110000000 | 904 | SIGN ERECTION, TYPE B (GROUND MOUNTED)..... | 1 | EA. |
| 4116100000 | 904 | SIGN ERECTION, RELOCATE SIGN TYPE D..... | 2 | EA. |
| 4155000000 | 907 | DISPOSAL OF SIGN SYSTEM, U-CHANNEL..... | 48 | 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
- 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 |
| 901.70 | SIGN STRINGERS AND SUPPORT SPACING |
| 904.10 | ORIENTATION OF GROUND MOUNTED SIGNS |
| 904.50 | MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS |

INDEX

| SHEET NO. | DESCRIPTION |
|----------------------|---|
| SIGN-1..... | TITLE SHEET |
| SIGN-2A..... | GROUND MOUNTED SIGN SUPPORT INFORMATION |
| SIGN-2B thru 2E..... | GROUND MOUNTED SIGN SUPPORT DETAILS |
| SIGN-2F thru 2L..... | OVERHEAD SIGN STRUCTURE DRAWINGS |
| SIGN-3A thru 3F..... | SIGN DESIGN SHEETS |
| SIGN-3G..... | TYPE "E" SIGN SHEET |
| SIGN-3H..... | TYPE "F" SIGN SHEET |
| SIGN-4 thru 12..... | SIGN ROADWAY SHEETS |


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

| | |
|--------------------------------|--|
| Ayman I. Alqudwah, P.E. | SIGNING & DELINEATION REGIONAL ENGINEER |
| David M. Eaton | SIGNING & DELINEATION PROJECT DESIGN ENGINEER/TECHNICIAN |

20-MAY-2009 10:21:02 \\U-4444AA\Traffic\Signing\CADD\Signing Layout\Plans\ur-4444aa-sgn-t.tle.dgn
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revision: 01

T.I.P.: U-4444AA

CONTRACT: C202178

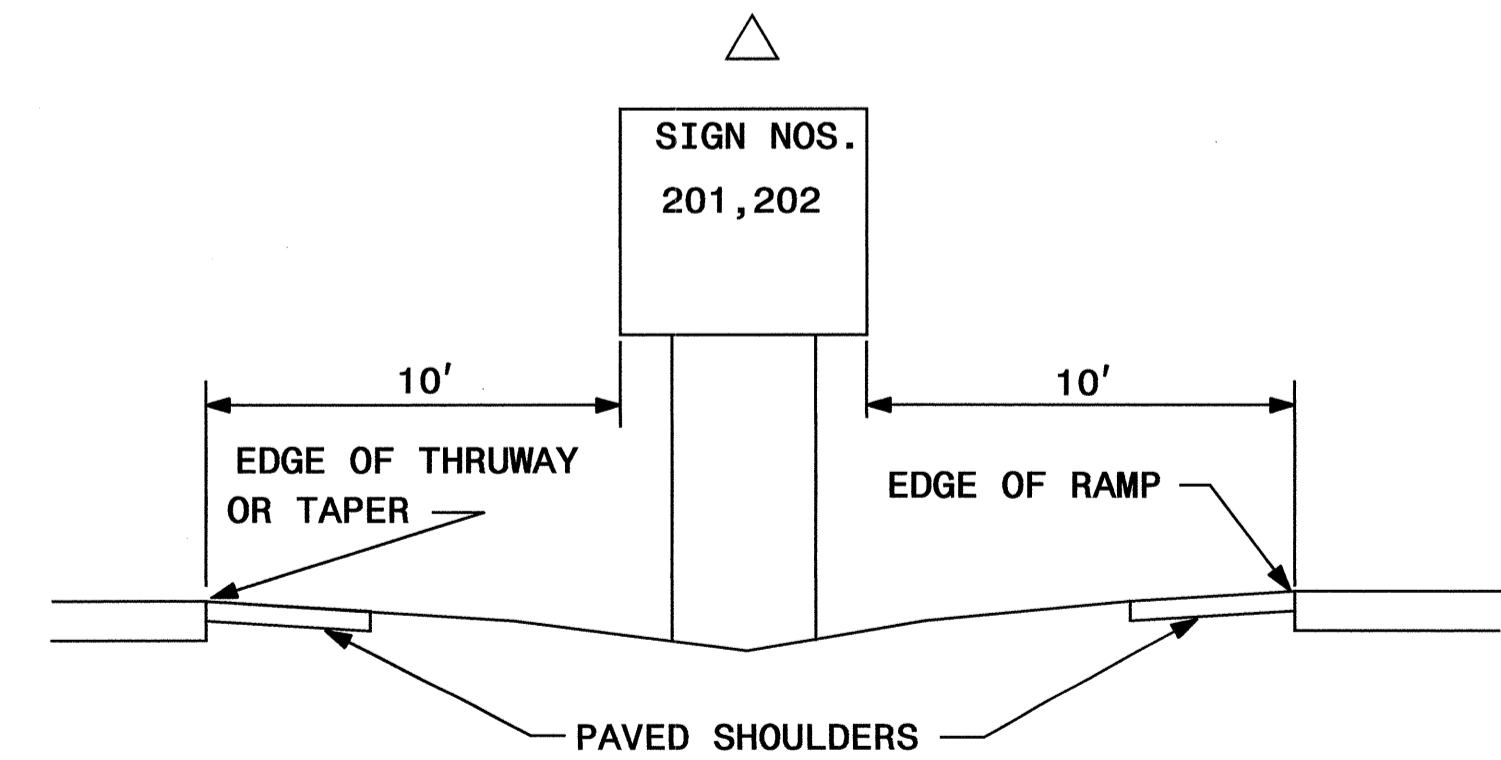
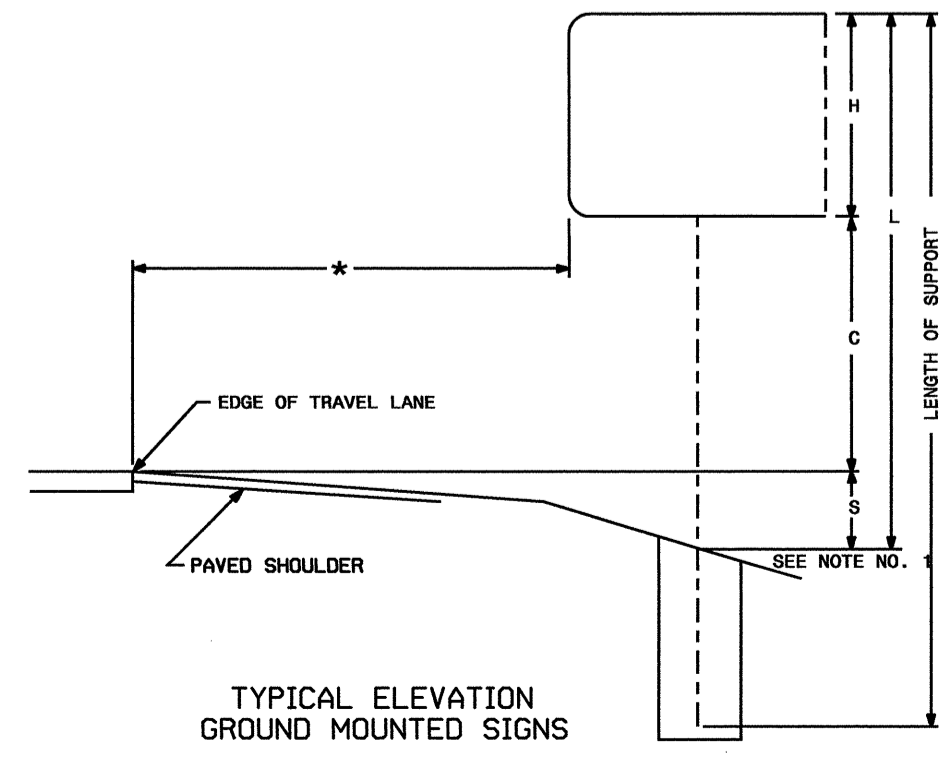
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|---|----------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-2A |
| APPROVED: <i>[Signature]</i> | |
| DATE: 5/20/09 | |
| SEAL | |
|  | |

| SIGN NO. | SIGN TYPE | SIGN SIZE (in.) w x h | ROADWAY STATION | NO. OF SUP. | BEAM SECTION | SUPPORT TYPE BA or S | ATTACH METHOD | MOUNTING METHOD | HORIZ. CLR. (ft.) | LENGTH (ft) | | | 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) |
|----------|-----------|--------------------------|-----------------|-------------|--------------|-------------------------|---------------|-----------------|-------------------|-------------|--------|------------|-------------------|-------|--------------|---------------------|-------|--------------|--------------------|-------|--------------|------------------------|---------------------|----------------------------|-------------------------------|---------------------|--------------------|--------------------------------------|
| | | | | | | | | | | SNS HT | MTG HT | EMBED-MENT | S | L | TOTAL LENGTH | S | L | TOTAL LENGTH | S | L | TOTAL LENGTH | | | | | | | |
| 101 | A | 192 X 84 | 48+90 -L- | 2 | W6x16 | BA | N/A | N/A | 20.00 | 7.00 | 8.32 | 6 | 2.76 | 18.08 | 24.08 | 0.00 | 0.00 | 0.00 | -1.32 | 14.00 | 20.00 | 1.5 | 6.5 | 837.66 | 0.00 | 0.85 | 0.00 | |
| 102 | B | 144 X 36 | 37+80 -Y2- | 2 | S4x7.7 | BA | N/A | N/A | 18.00 | 3.00 | 7.00 | 4 | 2.28 | 12.28 | 16.28 | 0.00 | 0.00 | 0.00 | 0.52 | 10.52 | 14.52 | 1 | 4.5 | 277.77 | 0.00 | 0.00 | 0.26 | |
| 103 | A | 252 X 60 | 106+70 -L | 3 | W6x9 | BA | N/A | N/A | 18.00 | 5.00 | 7.31 | 4.5 | 2.65 | 14.96 | 19.46 | 0.75 | 13.06 | 17.56 | -0.31 | 12.00 | 16.50 | 1.5 | 5 | 576.36 | 0.00 | 0.98 | 0.00 | |
| 104 | A | 192 X 84 | 114+70 -L- | 2 | W6x12 | BA | N/A | N/A | 20.00 | 7.00 | 10.17 | 5.5 | -1.05 | 16.12 | 21.62 | 0.00 | 0.00 | 0.00 | -3.17 | 14.00 | 19.50 | 1.5 | 6 | 578.80 | 0.00 | 0.79 | 0.00 | |
| 105 | A | 216 X 72 | 133+10 -L- | 2 | W6x12 | BA | N/A | N/A | 22.00 | 6.00 | 7.00 | 5.5 | 2.62 | 15.62 | 21.12 | 0.00 | 0.00 | 0.00 | 2.34 | 15.34 | 20.84 | 1.5 | 6 | 588.88 | 0.00 | 0.79 | 0.00 | |
| 201 | A | 72 X 60 | 61+50+/- -L- | 2 | S3x5.7 | BA | N/A | N/A | △ | 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 | 72 X 60 | 96+00 +/- -L | 2 | S3x5.7 | BA | N/A | N/A | △ | 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 | |

| | | | | |
|------|---------|-------|-------|-------|
| | TOTAL | TOTAL | TOTAL | TOTAL |
| | 3295.34 | 0.00 | 3.40 | 0.73 |
| USE: | 3296 | 0 | 4 | 1 |

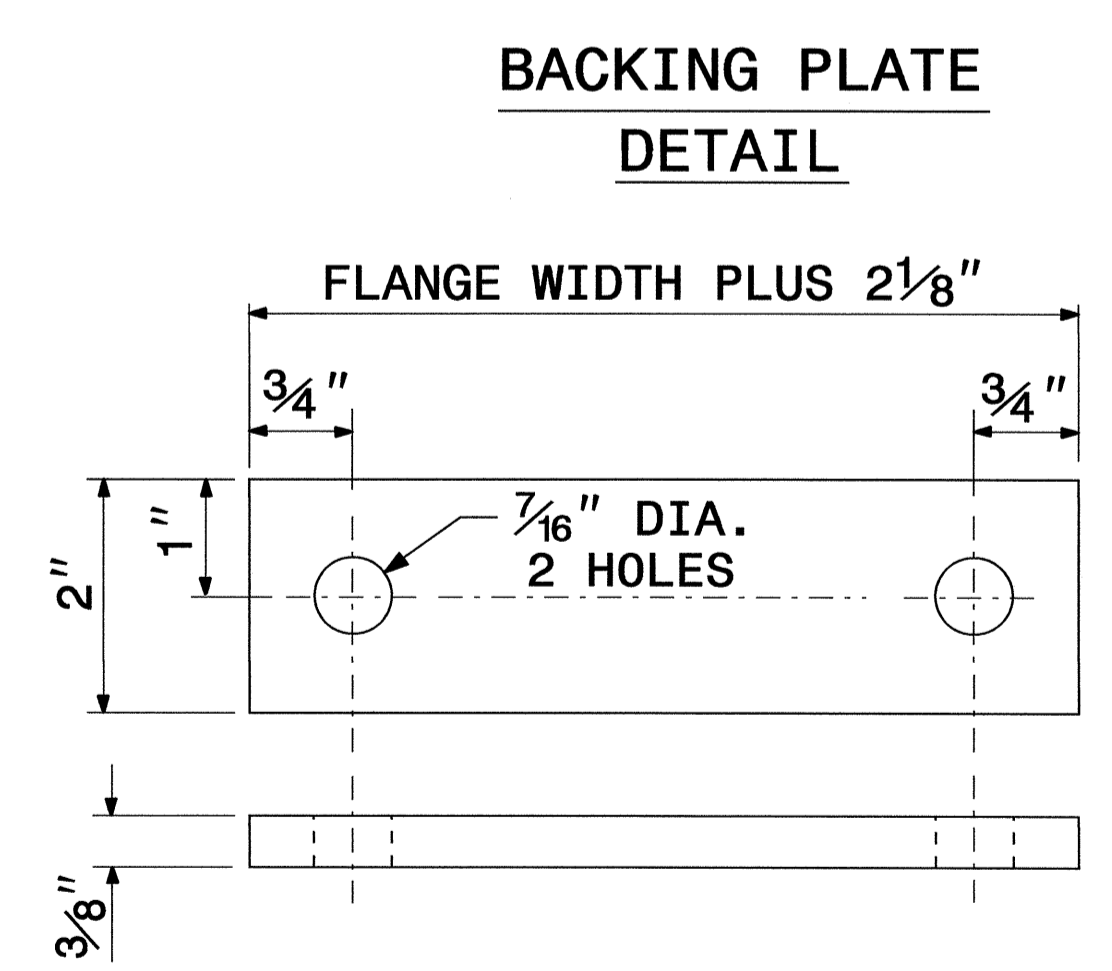
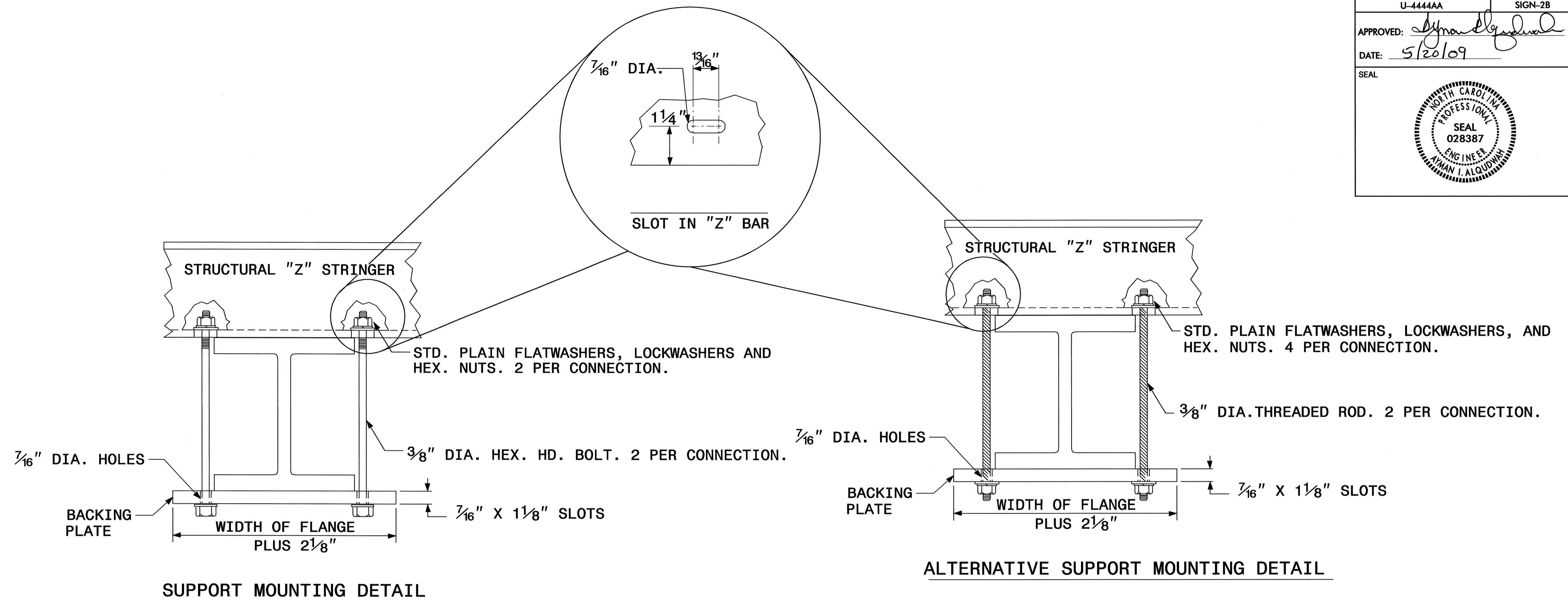
NOTES

- 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.



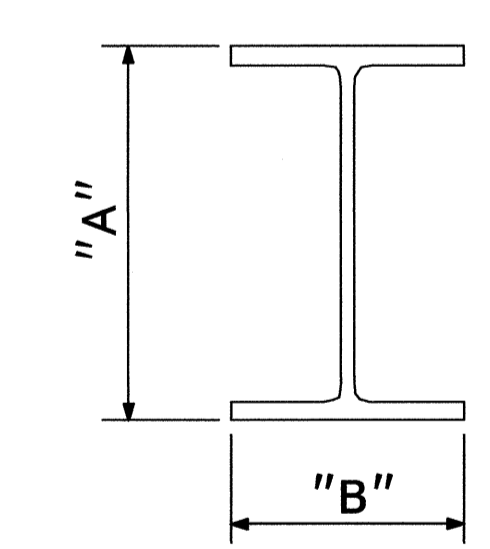
TYPE "A" AND TYPE "B" GROUND MOUNTED SIGNS

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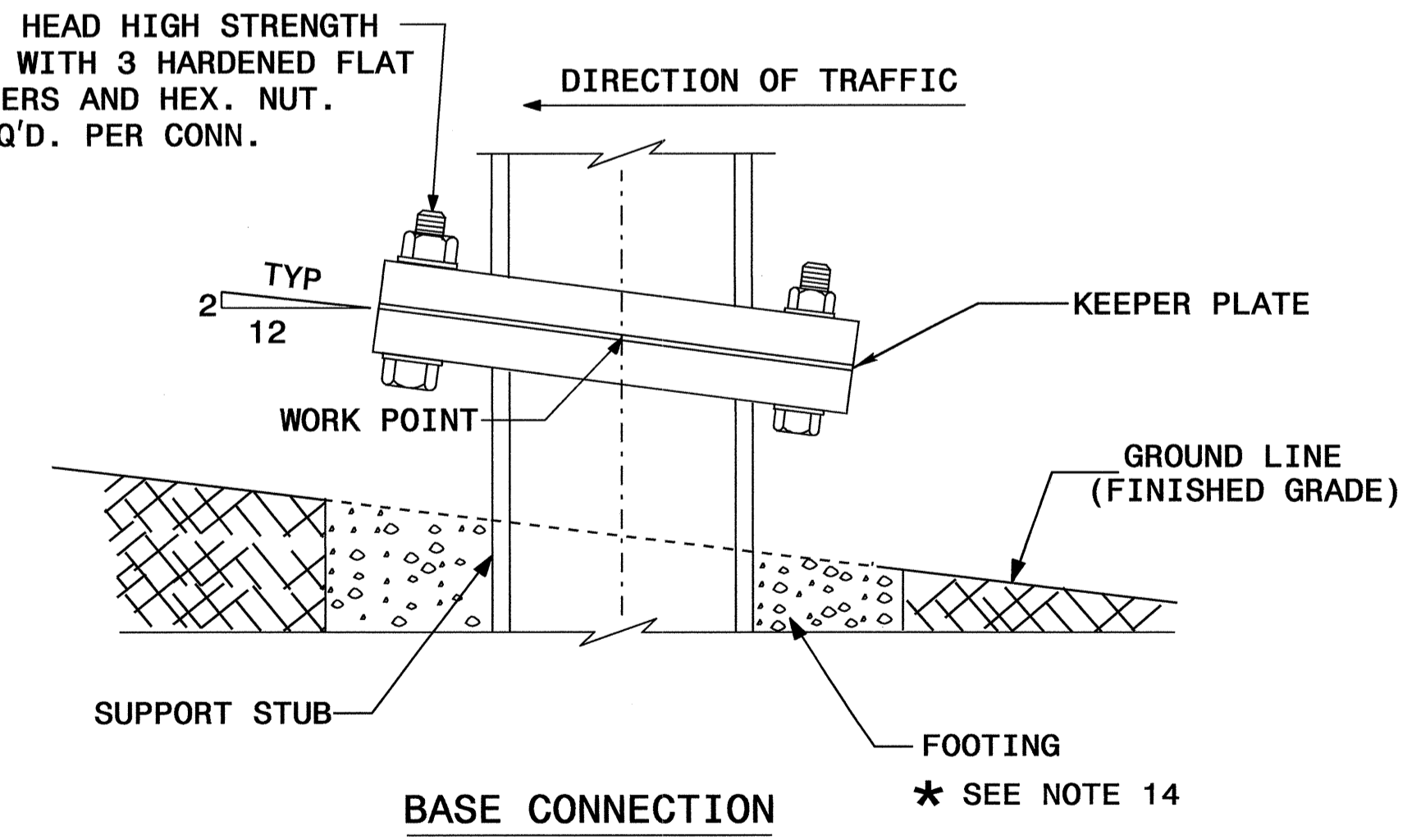
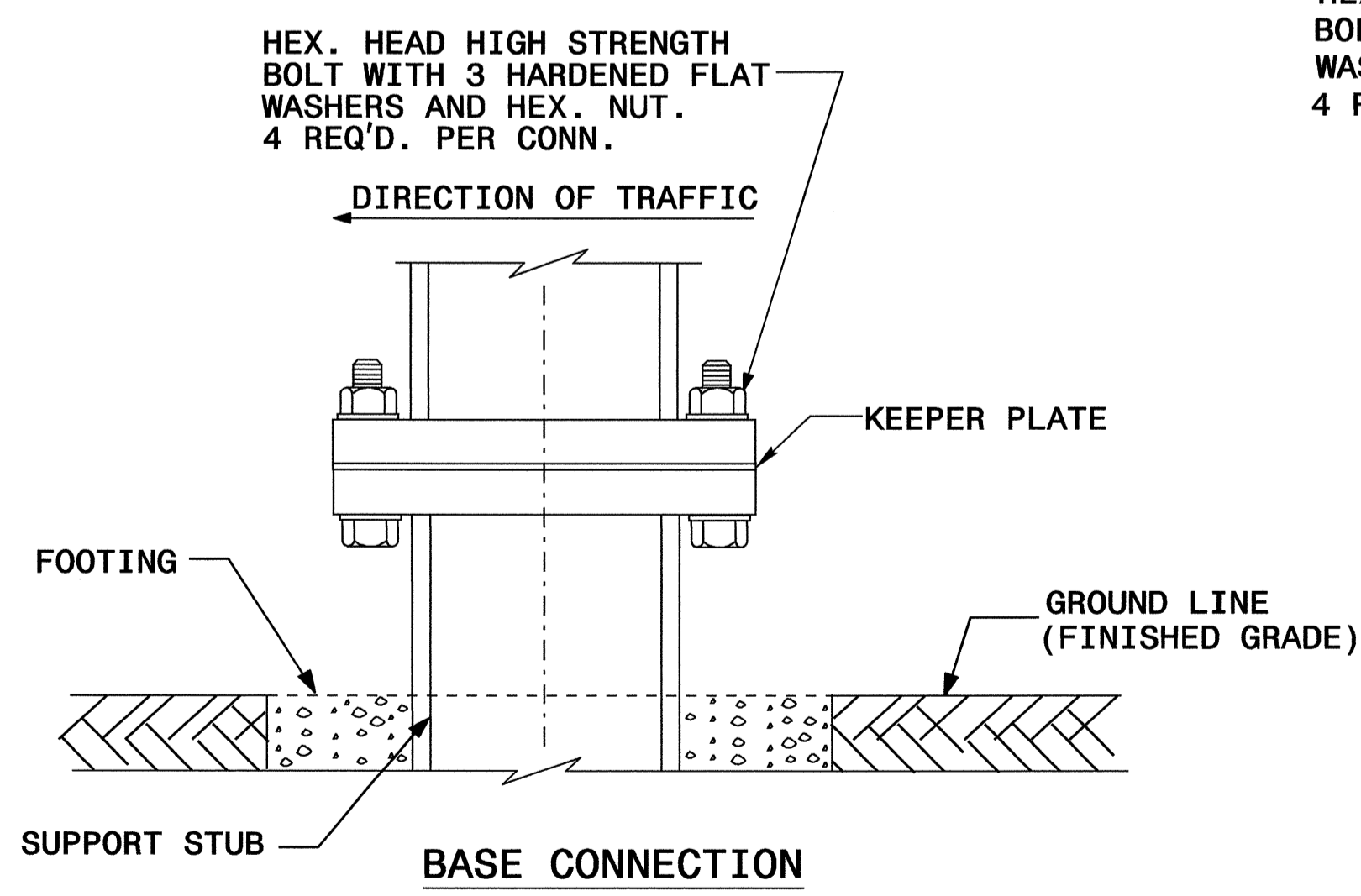
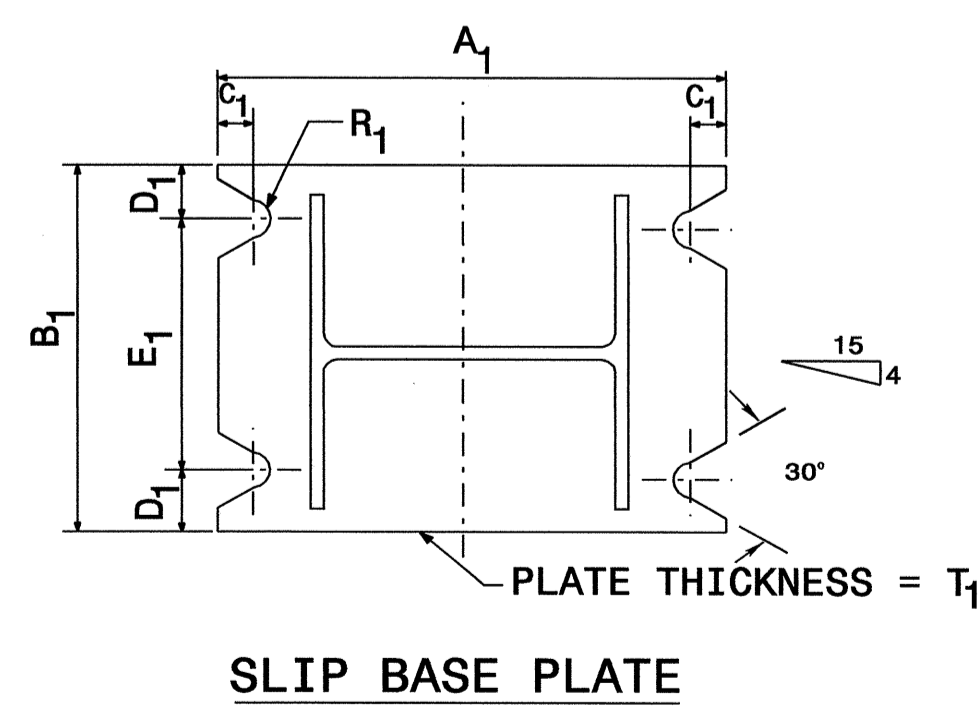
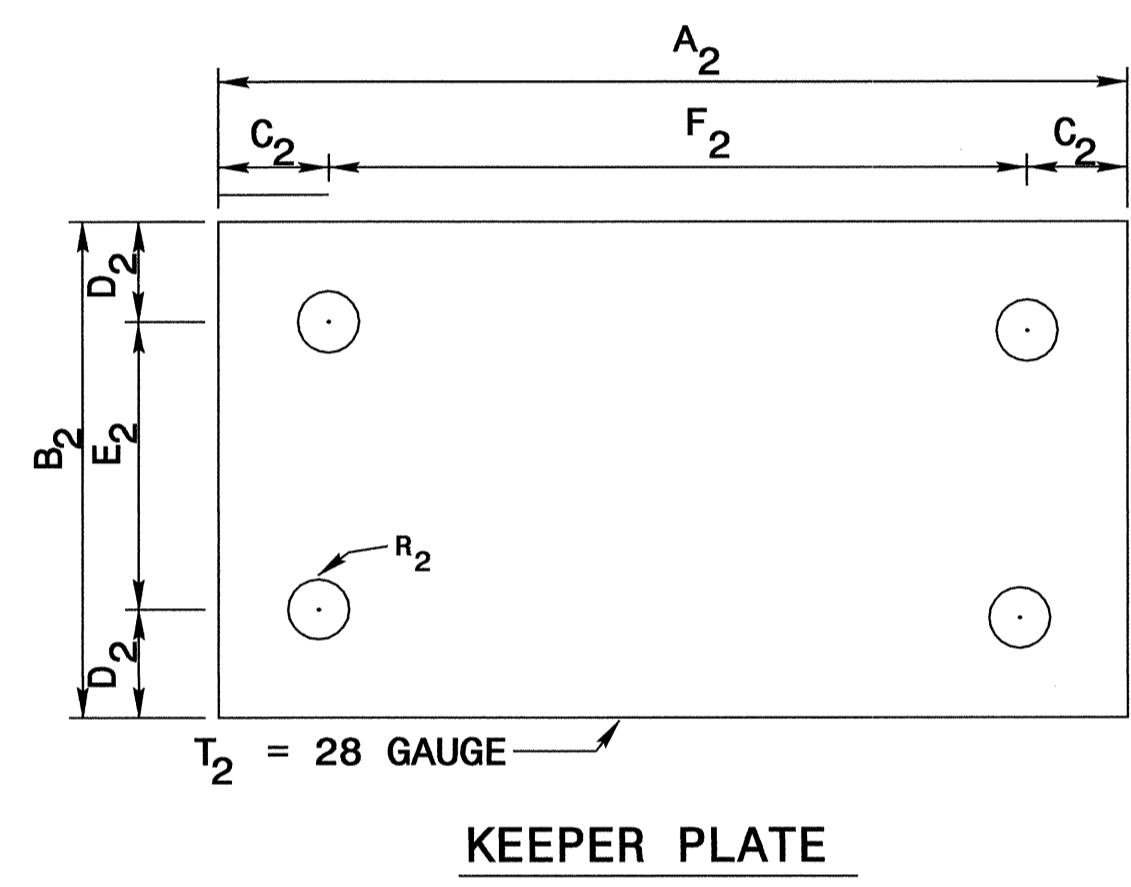
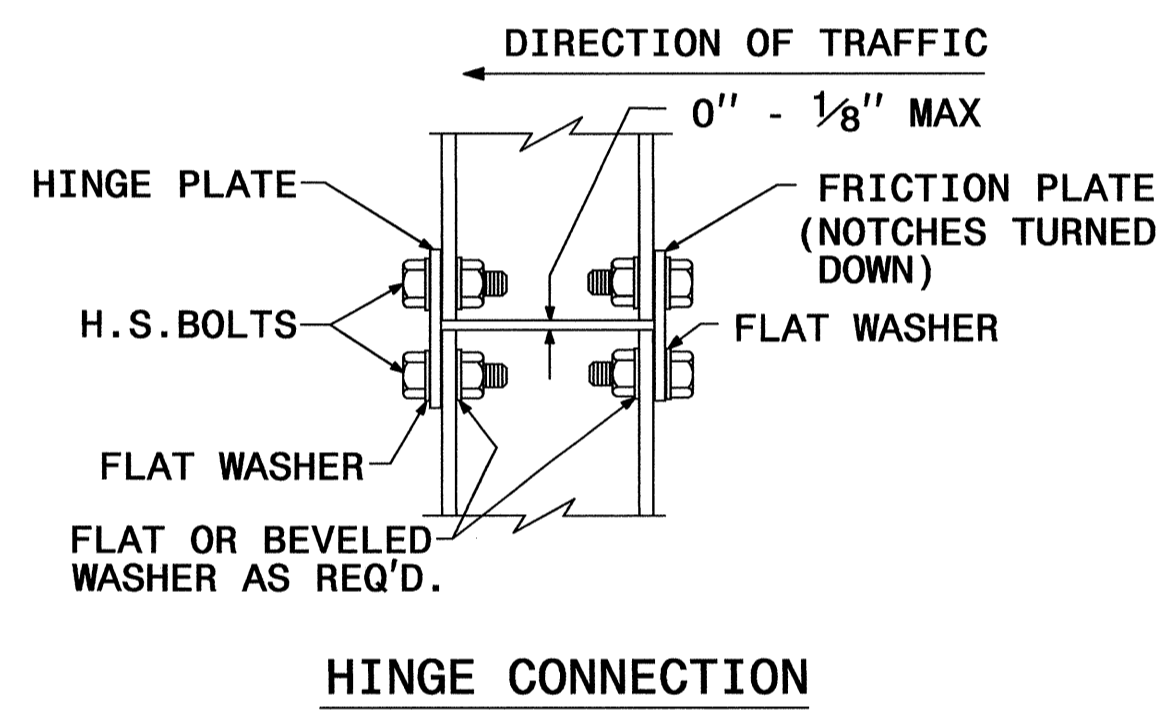
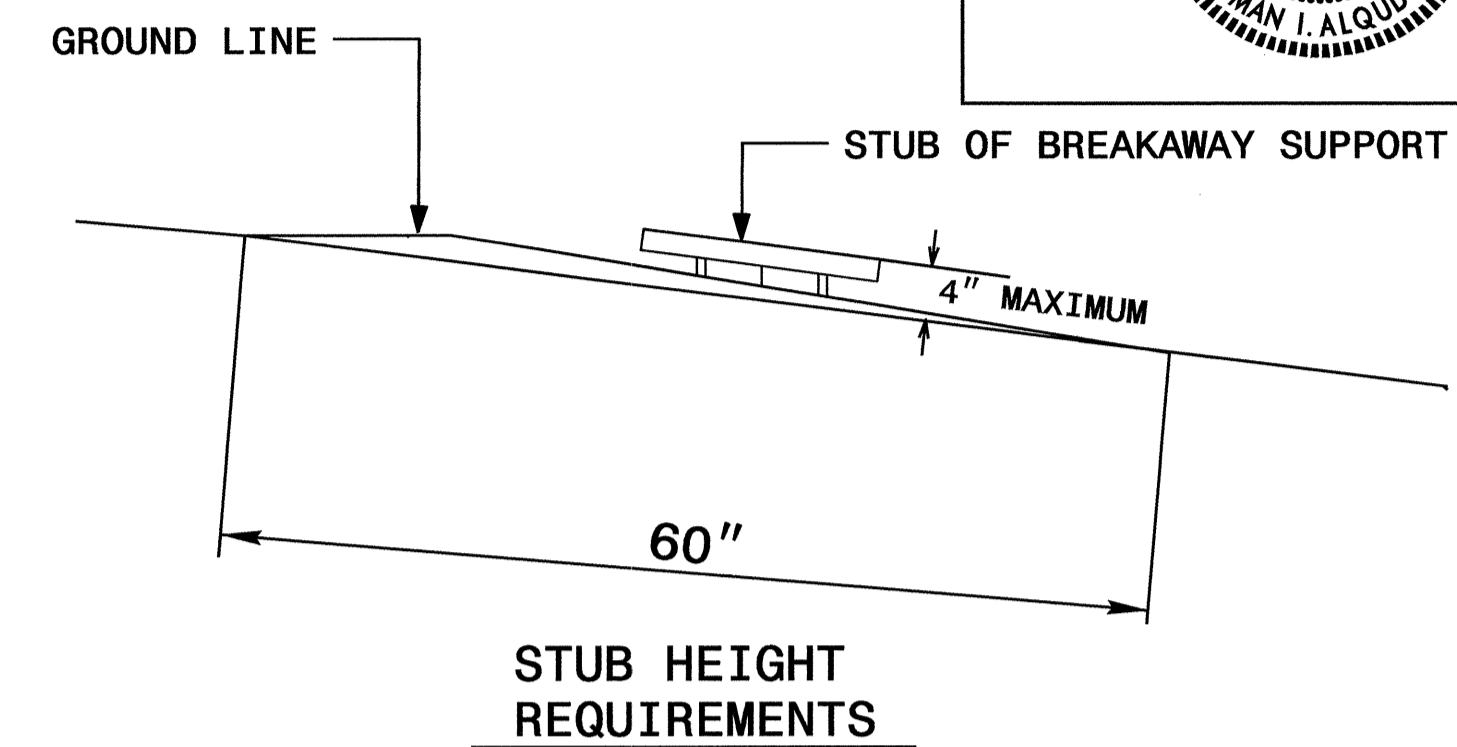
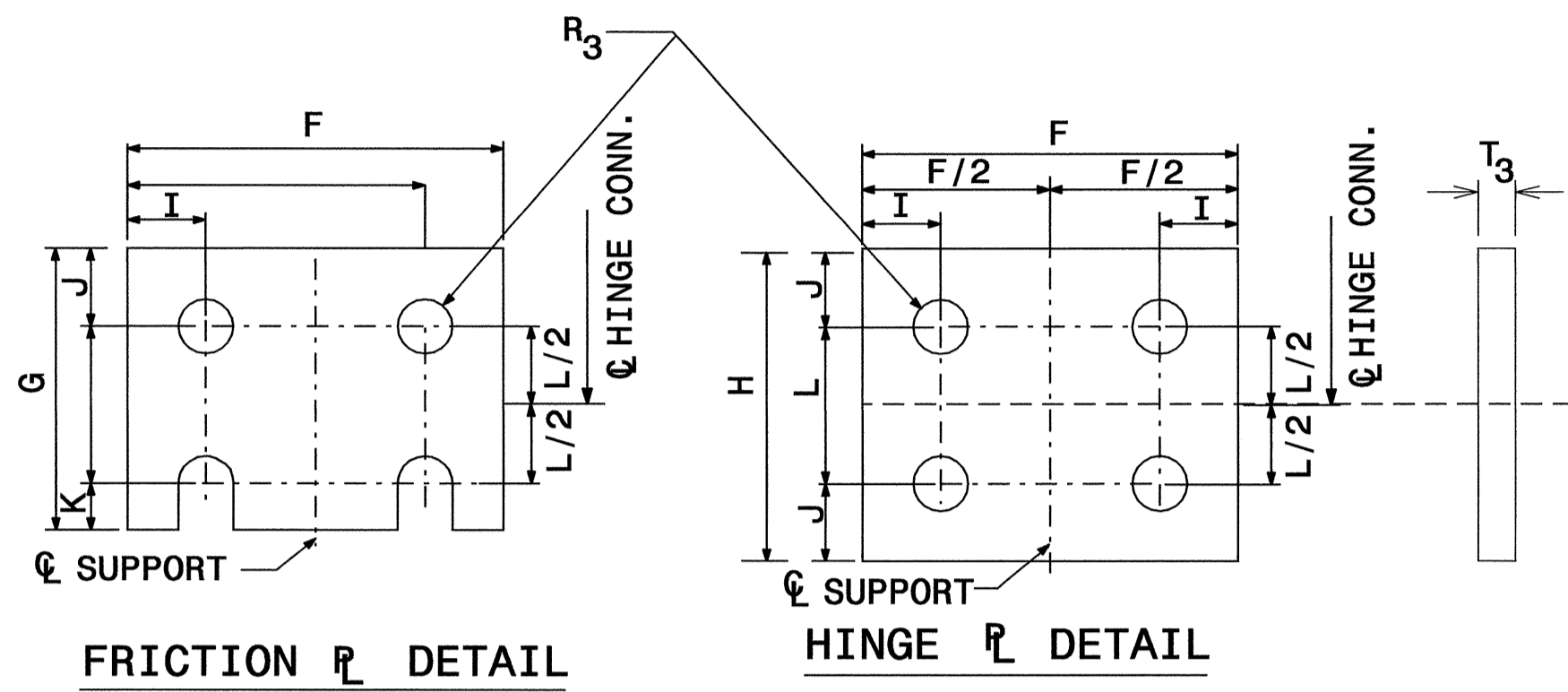
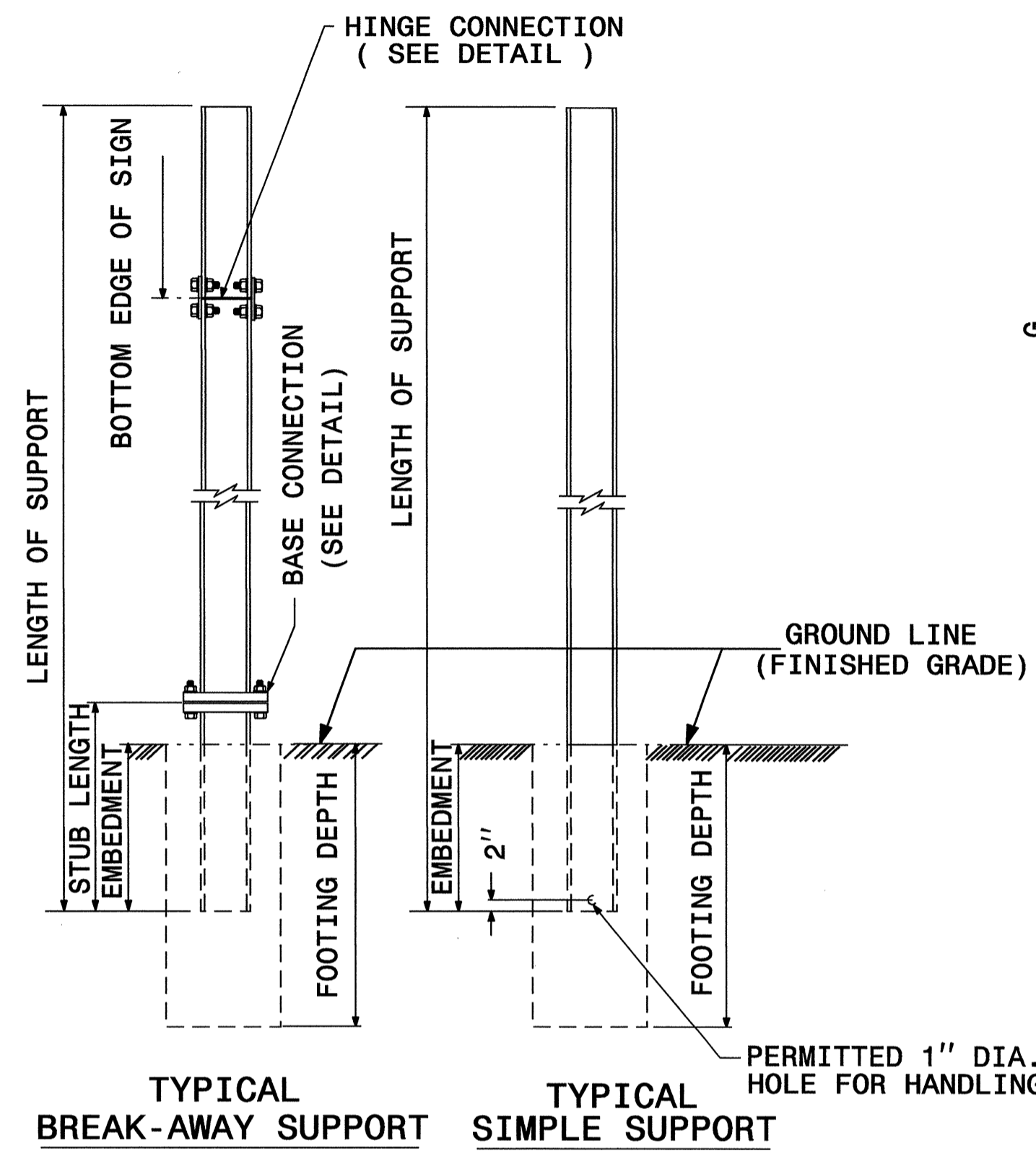
1. THE SUPPORT MOUNTING DETAIL SHOWS A "W" OR "S" BEAM. THIS DETAIL IS ALSO USED FOR MOUNTING SIGNS TO WOOD OR SQUARE TUBE SUPPORTS.
2. USE GALVANIZED STEEL FOR BACKING PLATES AND MOUNTING BOLTS IN ACCORDANCE WITH ASTM A123.
3. SEE NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES FOR TYPE OF MATERIAL TO BE USED FOR SIGN HANGER ASSEMBLIES AND SUPPORTS.
4. USE GALVANIZED STEEL FOR MOUNTING BOTS AND THREADED RODS IN COMPLIANCE WITH ASTM A307 AND ASTM A153.

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" |


SIGN MOUNTING DETAILS



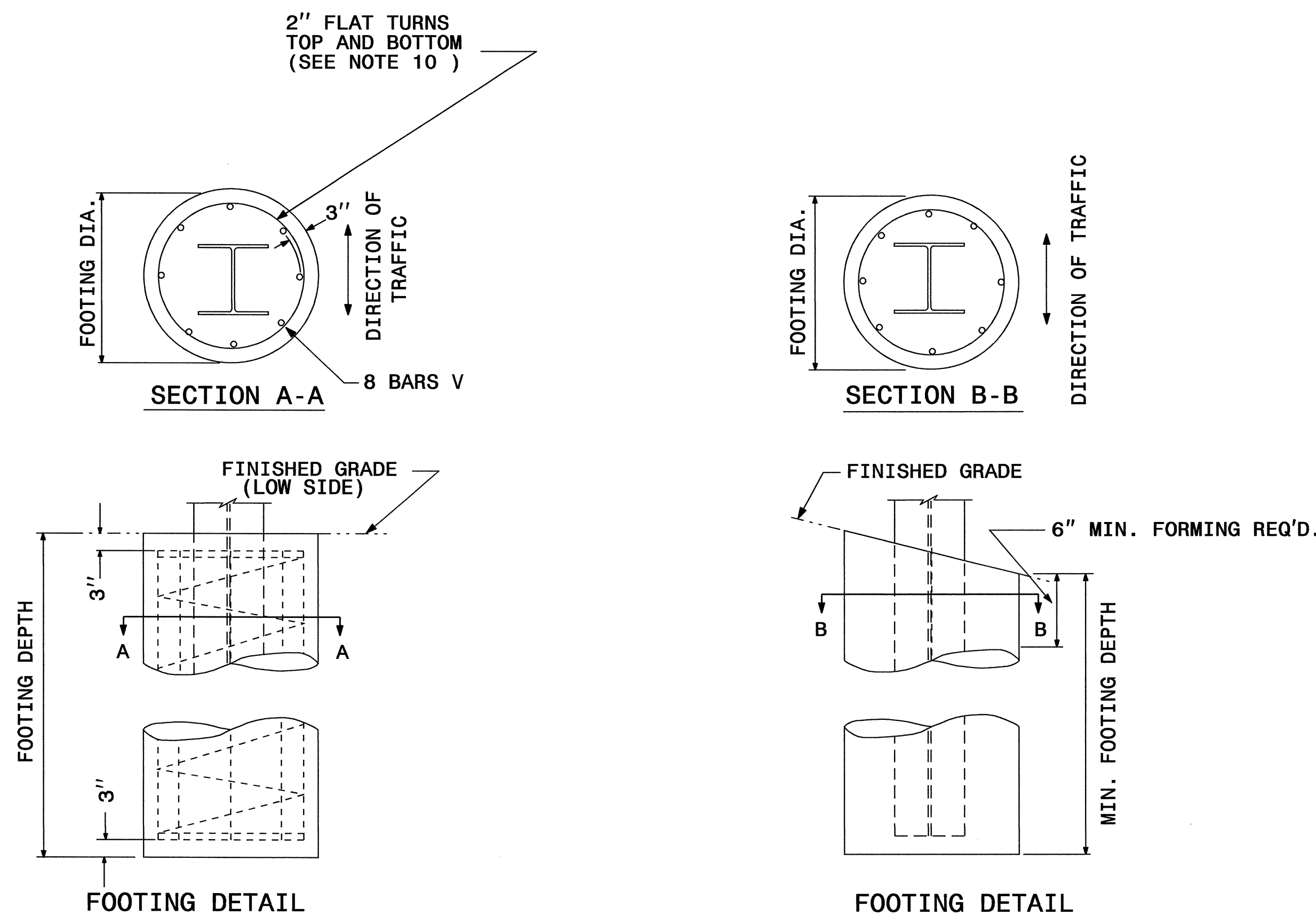
GROUND MOUNTED SIGN SUPPORT

SEE SHEET SIGN-2D FOR DIMENSIONS.
SEE SHEET SIGN-2E FOR NOTES.

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|---|----------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-2D |
| APPROVED: <i>[Signature]</i> | |
| DATE: 5/20/09 | |
| SEAL | |
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| 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" | 1/2" | 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. X 1 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. X 1 1/4" | 4" | 3 1/2" | 4" | 3/4" | 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-2E FOR NOTES.

GROUND MOUNTED SIGN SUPPORT

19-MAY-2009 08:00
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 meacon AT TELCZ21656

| | |
|------------------------------|----------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-2E |
| APPROVED: <i>[Signature]</i> | |
| DATE: 5/20/09 | |
| SEAL | |
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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 |

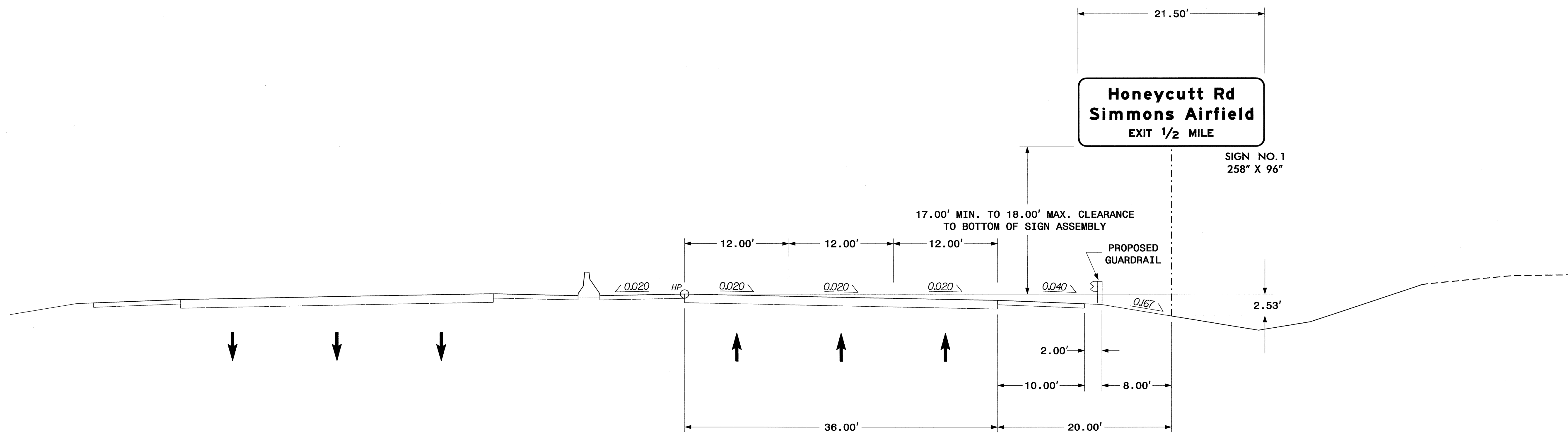
COMPLETELY ASSEMBLE B/A POSTS PRIOR TO ERECTION. B/A POST TO BE SET IN ONE PIECE. AFTER SUPPORT HAS BEEN ERECTED AND THE CONCRETE FOOTINGS HAS CURED AT LEAST 48 HRS., CLEAN CONCRETE FROM BASE CONNECTION BOLTS THEN LOOSEN AND RETIGHTEN EACH BOLT IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. DO NOT OVERTIGHTEN.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

I9-MAY-2009 07:59
 P:\TIPPr-obj\obj\U-4444AA\Traffic\Signing\CADD\Signing Layout Plans\U-4444aa-sgn-1.tle.dgn
 meabon AT 1ECC22656

| | | | |
|---|-------------|-----------|-------------|
| STATE | PROJECT NO. | SHEET NO. | TOTAL SHTS. |
| N.C. | U-4444AA | SIGN-2F | |
| APPROVED: <i>[Signature]</i> | | | |
| DATE: 5/20/09 | | | |
| SEAL | | | |
|  | | | |



NOTES:


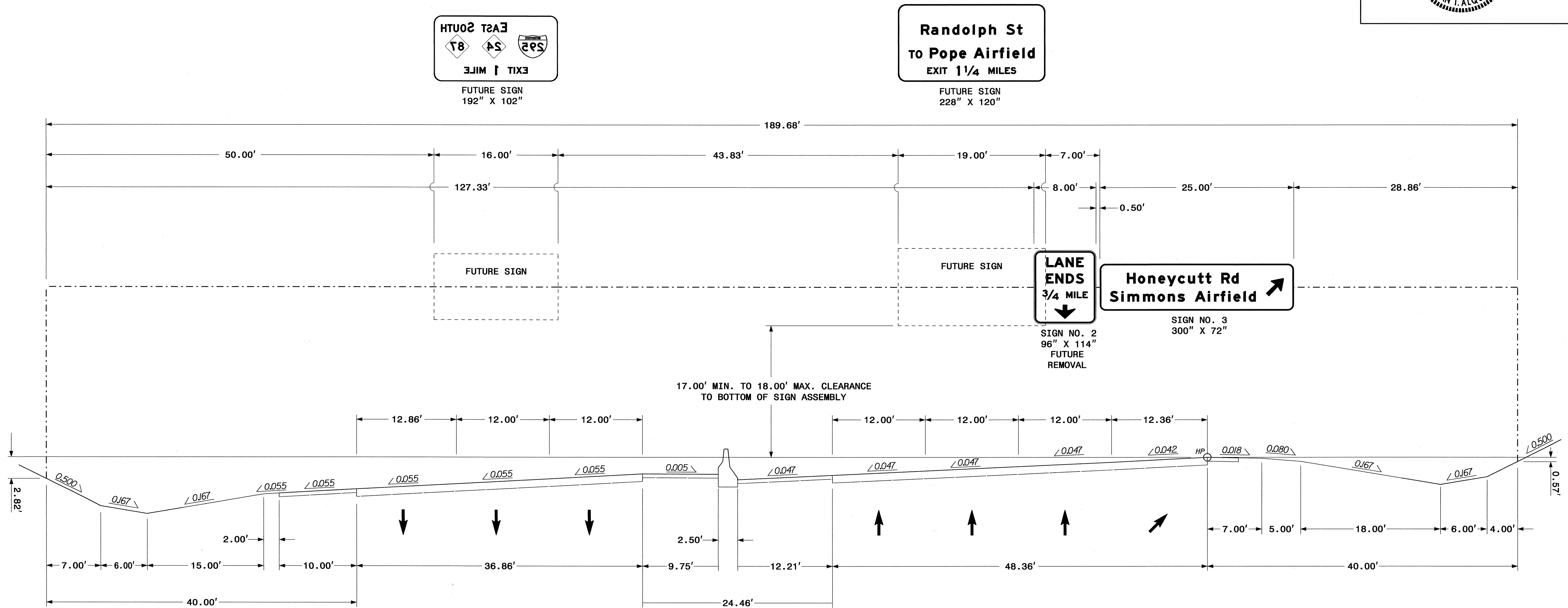
1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 M.P.H.

OVERHEAD SIGN ASSEMBLY
AT STA. 32+00 -L-

| | | | |
|-------|-------------|-----------|-------------|
| STATE | PROJECT NO. | SHEET NO. | TOTAL SHTS. |
| N.C. | U-4444AA | SIGN-2G | |

APPROVED: *[Signature]*
DATE: 6/22/09


SEAL

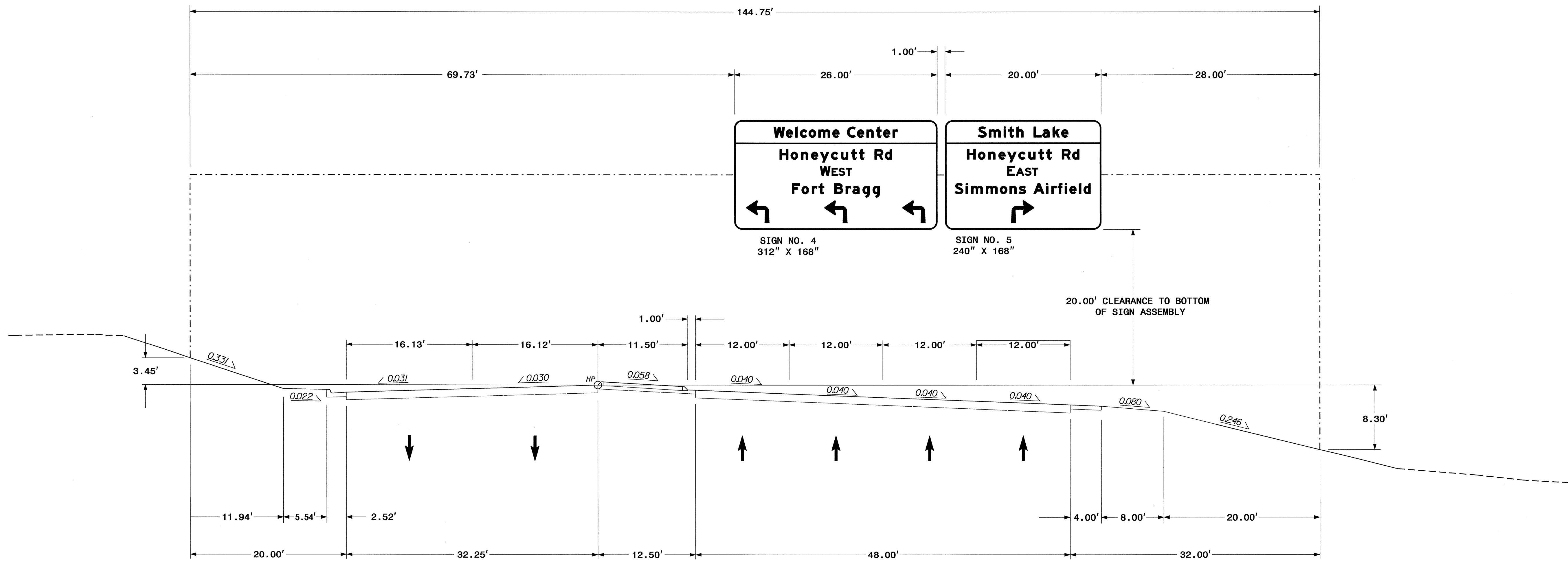



NOTES:

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. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 M.P.H.

OVERHEAD SIGN ASSEMBLY
AT STA. 59+00 -L-

| | | | |
|---|-------------|-----------|-------------|
| STATE | PROJECT NO. | SHEET NO. | TOTAL SHTS. |
| N.C. | U-4444AA | SIGN-2H | |
| APPROVED: <i>[Signature]</i> | | | |
| DATE: 6/22/09 | | | |
| SEAL | | | |
|  | | | |



NOTES:


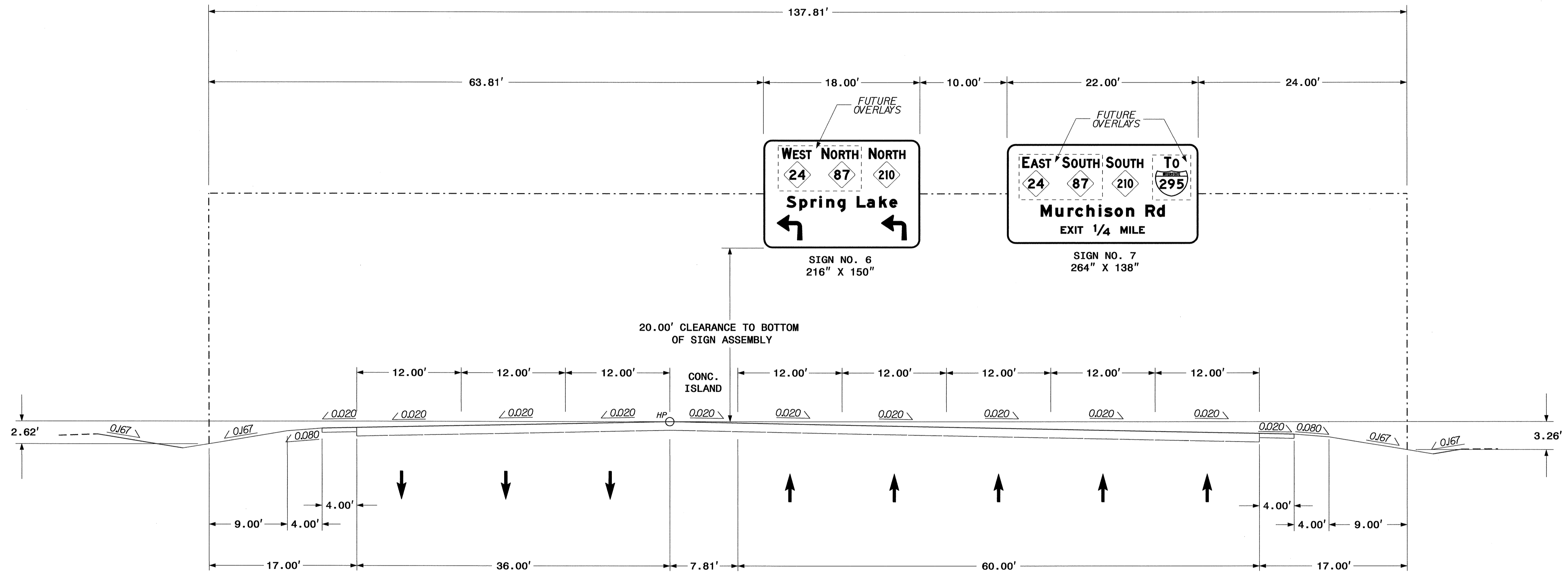
1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
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5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 M.P.H.

**OVERHEAD SIGN ASSEMBLY
AT STA. 25+00 -Y2RPC-**

| | | | |
|-------|-------------|-----------|-------------|
| STATE | PROJECT NO. | SHEET NO. | TOTAL SHTS. |
| N.C. | U-4444AA | SIGN-2I | |

APPROVED: *[Signature]*
DATE: 6/22/09


SEAL

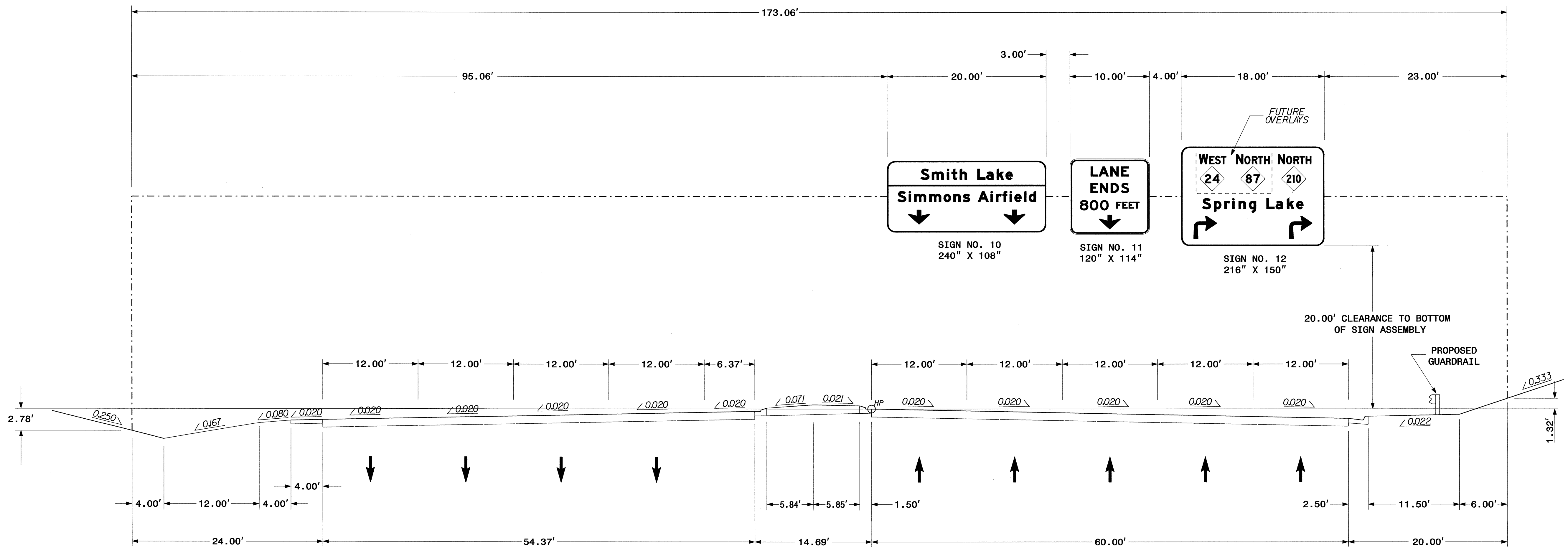



NOTES:

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. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
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5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 M.P.H.

OVERHEAD SIGN ASSEMBLY
AT STA. 20+50 -Y2-


| STATE | PROJECT NO. | SHEET NO. | TOTAL SHTS. |
|---|-------------|-----------|-------------|
| N. C. | U-4444AA | SIGN-2J | |
| APPROVED: <i>[Signature]</i> | | | |
| DATE: 6/22/09 | | | |
| SEAL | | | |
|  | | | |

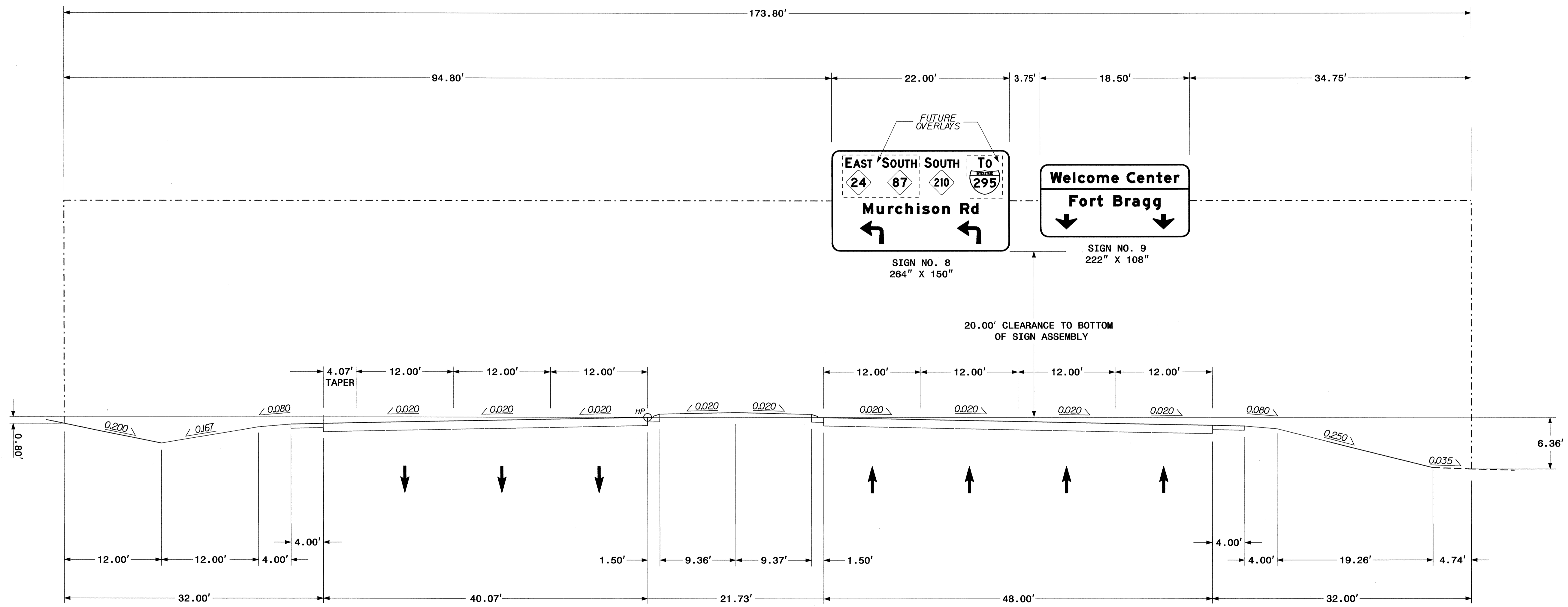


NOTES:

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. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
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5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 M.P.H.

**OVERHEAD SIGN ASSEMBLY
AT STA. 26+70 -Y2-**

| | | | |
|---|-------------|-----------|-------------|
| STATE | PROJECT NO. | SHEET NO. | TOTAL SHTS. |
| N.C. | U-4444AA | SIGN-2K | |
| APPROVED: <i>[Signature]</i> | | | |
| DATE: 6/22/09 | | | |
| SEAL | | | |
|  | | | |



NOTES:


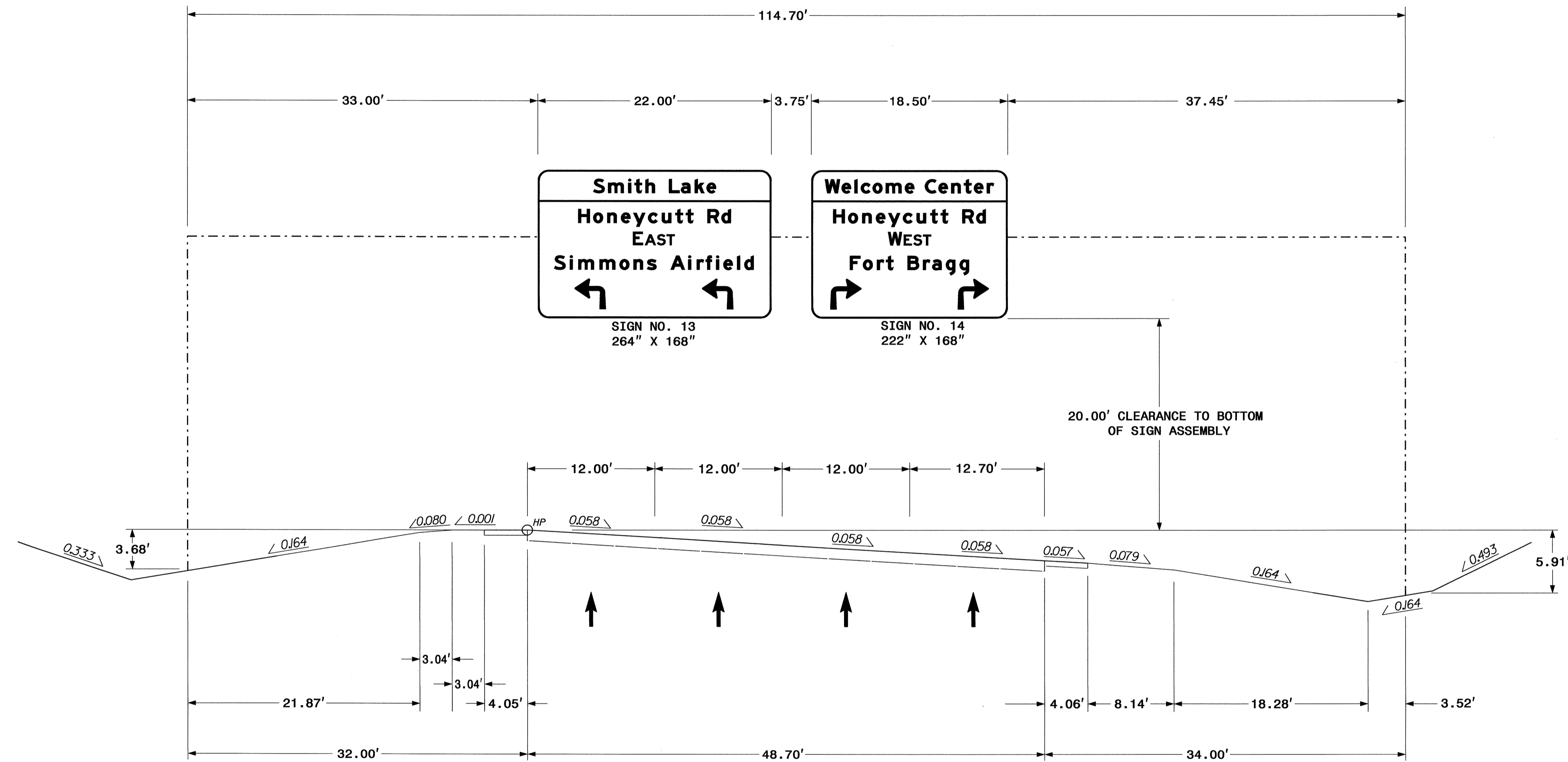
1. IF THE CONTRACTOR BIDS ALUMINUM SIGN STRUCTURE, EACH SHALL BE PROVIDED WITH AN APPROVED HIGHWAY TRUSS DAMPER DEVICE IN ACCORDANCE WITH AASHTO SPECIFICATIONS.
2. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
4. THE TOP OF THE FOOTING SHALL EXTEND AT LEAST 4 INCHES AND NOT MORE THAN 24 INCHES ABOVE THE HIGHEST POINT OF THE GROUND SURFACE AT THE FOOTING.
5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 M.P.H.

**OVERHEAD SIGN ASSEMBLY
AT STA. 31+00 -Y2-**

| STATE | PROJECT NO. | SHEET NO. | TOTAL SHTS. |
|-------|-------------|-----------|-------------|
| N.C. | U-4444AA | SIGN-2L | |

APPROVED: *[Signature]*
DATE: 6/15/09

SEAL

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. MOUNT SIGNS VERTICALLY CENTERED ON HORIZONTAL MEMBER OF STRUCTURE.
3. FIELD VERIFICATION SHALL BE REQUIRED FOR ALL FOOTING ELEVATIONS, PER THE LATEST NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES. PROVIDE FIELD VERIFICATION TO THE SIGNING SECTION.
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5. SIGN HANGERS AND ATTACHMENT HARDWARE SHALL BE PROVIDED AND INSTALLED ON THE ASSEMBLY TO ACCOMMODATE ALL SIGNS SHOWN IN THIS PLAN SHEET.
6. DESIGN AND CONSTRUCTION REQUIREMENTS FOR SIGN STRUCTURES SHALL ACCOMMODATE WIND VELOCITY OF 100 M.P.H.

OVERHEAD SIGN ASSEMBLY
AT STA. 32+70 -Y2RPA-

SIGN NUMR: 1 TYPE: A Overhead QUANTITY: 1
 BACKG. COLOR: Green COPY COLOR: White
 DESIGN BY: DME PROJECT ID: U-4444AA
 CHK BY: DIV: 6 STD #: SSTN DATE: May 12, 2009

SIGN WIDTH: 21'-6" HEIGHT: 8'-0" TOTAL AREA: 172.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|-------|------|------|------|
| ARMED | 257.1 | 22.3 | 22.4 | 35.3 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 3 LENGTH: 250.0"

USE NOTES: 1,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size Text Length | H | o | n | e | y | c | u | t | t | R | d | Series/Size Text Length | | |
|-------------------------|------|------|------|------|------|------|------|------|------|-----|-----|-------------------------|------|------|
| EM 2000 | 42.8 | 17 | 15.8 | 15.5 | 13.8 | 16.8 | 15.5 | 15.4 | 11.8 | 8.3 | 16 | 15.8 | 10.6 | 85.6 |
| EM 2000 | 15.5 | 17.9 | 9.6 | 24 | 22.6 | 15.8 | 15.2 | 10.6 | 16 | 20 | 9.6 | 10.2 | 11.7 | 8.2 |
| E 2000 | 71.2 | 8.9 | 10.7 | 3.5 | 7.5 | 15 | 22 | 15 | 12 | 4.4 | 9.2 | 7.5 | 71.2 | |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

SIGN NUMR: 3 TYPE: A Overhead QUANTITY: 1
 BACKG. COLOR: Green COPY COLOR: White
 DESIGN BY: DME PROJECT ID: U-4444AA
 CHK BY: DIV: 6 STD #: SSTN DATE: May 12, 2009

SIGN WIDTH: 25'-0" HEIGHT: 6'-0" TOTAL AREA: 150.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|-------|------|------|------|
| ARMED | 257.1 | 22.3 | 22.4 | 35.3 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 9"
 NO. Z BARS: 2 LENGTH: 292.0"

USE NOTES: 1,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size Text Length | H | o | n | e | y | c | u | t | t | R | d | Series/Size Text Length | | |
|-------------------------|------|------|------|------|------|------|------|------|------|-----|-----|-------------------------|------|------|
| EM 2000 | 42.1 | 17 | 15.8 | 15.5 | 13.8 | 16.8 | 15.5 | 15.4 | 11.8 | 8.3 | 16 | 15.8 | 10.6 | 85.6 |
| EM 2000 | 15.5 | 17.9 | 9.6 | 24 | 22.6 | 15.8 | 15.2 | 10.6 | 16 | 20 | 9.6 | 10.2 | 11.7 | 8.2 |
| E 2000 | 71.2 | 8.9 | 10.7 | 3.5 | 7.5 | 15 | 22 | 15 | 12 | 4.4 | 9.2 | 7.5 | 71.2 | |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

SIGN NUMR: 4 TYPE: A Overhead QUANTITY: 1
 BACKG. COLOR: Green/Brown COPY COLOR: White
 DESIGN BY: DME PROJECT ID: U-4444AA
 CHK BY: DIV: 6 STD #: SSTN DATE: May 26, 2009

SIGN WIDTH: 26'-0" HEIGHT: 14'-0" TOTAL AREA: 364.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|---------|-------|------|-----|----|
| a_turn2 | 18.5 | 10.2 | 35 | 35 |
| a_turn2 | 138.5 | 10.2 | 35 | 35 |
| a_turn2 | 258.5 | 10.2 | 35 | 35 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 0 LENGTH: 304.0"

USE NOTES: 1,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size Text Length | W | e | l | c | o | m | e | C | e | n | t | e | r | Series/Size Text Length |
|-------------------------|-------|------|------|------|------|------|-------|------|------|------|------|------|------|-------------------------|
| EM 2000 | 60.5 | 18.9 | 14.5 | 7.2 | 13.4 | 14.8 | 21.6 | 10.6 | 12 | 15.4 | 14.5 | 14.4 | 11.3 | 14.5 |
| EM 2000 | 69.8 | 17 | 15.8 | 15.5 | 13.8 | 16.8 | 15.5 | 15.4 | 11.8 | 8.3 | 16 | 15.8 | 10.6 | 85.6 |
| E 2000 | 131.6 | 15.9 | 2.2 | 10.7 | 11 | 9 | 131.6 | | | | | | | |
| EM 2000 | 88.7 | 14.7 | 15.8 | 10.2 | 8.3 | 16 | 17.4 | 10.4 | 15.5 | 15.5 | 10.6 | 88.7 | | |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

SIGN NUMR: 2 TYPE: A Overhead QUANTITY: 1
 BACKG. COLOR: Yellow COPY COLOR: Black
 DESIGN BY: DME PROJECT ID: U-4444AA
 CHK BY: DIV: 6 STD #: SSTN DATE: May 12, 2009

SIGN WIDTH: 8'-0" HEIGHT: 9'-6" TOTAL AREA: 76.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|----|-----|-----|----|
| ARROW | 32 | 8.1 | 32 | 22 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: RECESSED
 RECESS: 1.25"
 WIDTH: 2"
 RADII: 9"
 NO. Z BARS: 3 LENGTH: 88.0"

USE NOTES: 2,4
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Non-reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

ARROW DETAIL

Letter spacings are to start of next letter

| Series/Size Text Length | L | A | N | E | Series/Size Text Length |
|-------------------------|------|------|------|------|-------------------------|
| EM 2000 | 19.3 | 12 | 17.9 | 16.3 | 11.1 |
| EM 2000 | 19 | 14.3 | 16.4 | 15.3 | 12.1 |
| E 2000 | 3/4 | M | I | L | E |
| EM 2000 | 13 | 25 | 12 | 12 | 4.4 |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

29-MAY-2009 10:00
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 meason AL TEC2261506

| | |
|------------------------------|----------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-3B |
| APPROVED: <i>Jana Depina</i> | |
| DATE: 6/1/09 | |
| SEAL | |

SIGN NUMR: 5
TYPE: A Overhead
QUANTITY: 1

BACKG. COLOR: Green\Brown
COPY COLOR: White

DESIGN BY: DME
PROJECT ID: U-4444AA

CHK BY: DIV: 6

STD #: SSTN
DATE: May 26, 2009

N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT

SIGN WIDTH: 20'-0"
HEIGHT: 14'-0"
TOTAL AREA: 280.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|---------|-------|------|-----|----|
| a_turn2 | 101.6 | 10.2 | 35 | 35 |

MAT'L: 0.125" ALUMINUM

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

NO. Z BARS: 0
LENGTH: 232.0"

USE NOTES: 1,5
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Legend and border shall be direct applied Grade C reflective sheeting.
3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
4. Background shall be Grade B reflective sheeting.
5. Background shall be Grade C reflective sheeting.
6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| EM 2000 | 138.8 |
| EM 2000 | 172.3 |
| E 2000 | 47.1 |
| EM 2000 | 208.7 |

Spacing Factor is 1 unless specified otherwise
FILENAME: GSENG

SIGN NUMR: 6
TYPE: A Overhead
QUANTITY: 1

BACKG. COLOR: Green
COPY COLOR: White

DESIGN BY: DME
PROJECT ID: U-4444AA

CHK BY: DIV: 6

STD #: SSTN
DATE: May 21, 2009

N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT

SIGN WIDTH: 18'-0"
HEIGHT: 12'-0"
TOTAL AREA: 225.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|---------|-------|------|-----|----|
| NC243B | 151.4 | 84.1 | 36 | 36 |
| a_turn2 | 18.5 | 11.1 | 35 | 35 |
| a_turn2 | 182.5 | 11.1 | 35 | 35 |

MAT'L: 0.125" ALUMINUM

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

NO. Z BARS: 4
LENGTH: 208.0"

USE NOTES: 1,3,5
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Legend and border shall be direct applied Grade C reflective sheeting.
3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
4. Background shall be Grade B reflective sheeting.
5. Background shall be Grade C reflective sheeting.
6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| D 2000 | 40.7 |
| D 2000 | 50.2 |
| D 2000 | 50.2 |
| EM 2000 | 152.5 |

Spacing Factor is 1 unless specified otherwise
FILENAME: GSENG

SIGN NUMR: 7
TYPE: A Overhead
QUANTITY: 1

BACKG. COLOR: Green
COPY COLOR: White

DESIGN BY: DME
PROJECT ID: U-4444AA

CHK BY: DIV: 6

STD #: SSTN
DATE: May 21, 2009

N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT

SIGN WIDTH: 22'-0"
HEIGHT: 11'-6"
TOTAL AREA: 253.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|-------|------|-----|----|
| NC243B | 144.6 | 65.5 | 36 | 36 |

MAT'L: 0.125" ALUMINUM

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

NO. Z BARS: 3
LENGTH: 256.0"

USE NOTES: 1,3,5
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Legend and border shall be direct applied Grade C reflective sheeting.
3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
4. Background shall be Grade B reflective sheeting.
5. Background shall be Grade C reflective sheeting.
6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| D 2000 | 39.2 |
| D 2000 | 51 |
| D 2000 | 51 |
| D 2000 | 20.1 |
| EM 2000 | 170.9 |
| E 2000 | 115.7 |

Spacing Factor is 1 unless specified otherwise
FILENAME: GSENG

SIGN NUMR: 11
TYPE: A Overhead
QUANTITY: 1

BACKG. COLOR: Yellow
COPY COLOR: Black

DESIGN BY: DME
PROJECT ID: U-4444AA

CHK BY: DIV: 6

STD #: SSTN
DATE: May 12, 2009

N. C. DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
TRAFFIC ENGINEERING BRANCH
SIGNING DEPARTMENT

SIGN WIDTH: 10'-0"
HEIGHT: 9'-6"
TOTAL AREA: 95.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|----|-----|-----|----|
| ARROW | 44 | 7.6 | 32 | 22 |

MAT'L: 0.125" ALUMINUM

BORDER TYPE: RECESSED
RECESS: 1.25"
WIDTH: 2"
RADIUS: 9"

NO. Z BARS: 3
LENGTH: 112.0"

USE NOTES: 2,4
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Legend and border shall be direct applied Non-reflective sheeting.
3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
4. Background shall be Grade B reflective sheeting.
5. Background shall be Grade C reflective sheeting.
6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| EM 2000 | 57.3 |
| EM 2000 | 58.1 |
| E 2000 | 89.7 |

Spacing Factor is 1 unless specified otherwise
FILENAME: GSENG

29-MAY-2009 09:58
 P:\IP-P-0\atg\atg\Traffic\Signing\CADD\Sign_Designs\U4444aa_sign_designs.dgn
 meacon At 10:02:16:56

SIGN DESIGNS

APPROVED: *[Signature]*
DATE: 6/1/09



SIGN NUMR: 8 TYPE: A Overhead QUANTITY: 1
 BACKG. COLOR: Green COPY COLOR: White
 DESIGN BY: DME PROJECT ID: U-4444AA
 CHK BY: DIV: 6
 STD #: S5TN DATE: May 21, 2009
 N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH SIGNING DEPARTMENT

SIGN WIDTH: 22'-0" HEIGHT: 12'-6" TOTAL AREA: 275.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|---------|-------|------|-----|----|
| NC243B | 144.6 | 84 | 36 | 36 |
| a_turn2 | 42.5 | 10.9 | 35 | 35 |
| a_turn2 | 186.5 | 10.9 | 35 | 35 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 4
 LENGTH: 256.0"

USE NOTES: 1,3,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| D 2000 | 39.2 |
| D 2000 | 51 |
| D 2000 | 51 |
| D 2000 | 20.1 |
| EM 2000 | 170.9 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|-------|------|-----|------|----|-----|------|------|----|------|------|----|-----|------|------|------|----|------|------|------|
| S | O | U | T | H | 137.1 | 10.2 | 2.3 | 11.2 | 10 | 9.2 | 8.2 | 75.9 | | | | | | | | | | | | |
| M | U | R | C | H | I | S | O | N | R | D | 46.6 | 20.3 | 17 | 10.4 | 15.5 | 17 | 7.8 | 14.1 | 15.8 | 10.6 | 16 | 15.8 | 10.6 | 46.6 |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

SIGN NUMR: 10 TYPE: A Overhead QUANTITY: 1
 BACKG. COLOR: Green COPY COLOR: White
 DESIGN BY: DME PROJECT ID: U-4444AA
 CHK BY: DIV: 6
 STD #: S5TN DATE: May 12, 2009
 N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH SIGNING DEPARTMENT

SIGN WIDTH: 20'-0" HEIGHT: 9'-0" TOTAL AREA: 180.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|-----|----|------|----|
| ARROW | 32 | 12 | 32.1 | 22 |
| ARROW | 176 | 12 | 32.1 | 22 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 3
 LENGTH: 232.0"

USE NOTES: 1,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| EM 2000 | 138.8 |
| EM 2000 | 208.7 |

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|------|-----|------|-----|------|------|
| S | M | I | T | H | 50.6 | 16.9 | 22.7 | 7 | 12.4 | 10.6 | 16 | 13.5 | 15.7 | 13.4 | 10.6 | 50.6 | | | | | | | | |
| S | I | M | M | O | N | S | 15.7 | 16.9 | 8.3 | 22.7 | 21.6 | 14.8 | 14.3 | 10.6 | 12 | 19.2 | 8.3 | 9.8 | 10.7 | 7.2 | 14.5 | 7.2 | 10.6 | 15.7 |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

SIGN NUMR: 9 TYPE: A Overhead QUANTITY: 1
 BACKG. COLOR: Green/Brown COPY COLOR: White
 DESIGN BY: DME PROJECT ID: U-4444AA
 CHK BY: DIV: 6
 STD #: S5TN DATE: May 12, 2009
 N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH SIGNING DEPARTMENT

SIGN WIDTH: 18'-6" HEIGHT: 9'-0" TOTAL AREA: 166.5 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|-----|----|------|----|
| ARROW | 23 | 12 | 32.1 | 22 |
| ARROW | 167 | 12 | 32.1 | 22 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 3
 LENGTH: 214.0"

USE NOTES: 1,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| EM 2000 | 191 |
| EM 2000 | 134.6 |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|------|
| W | E | L | C | O | M | E | 15.5 | 18.9 | 14.5 | 7.2 | 13.4 | 14.8 | 21.6 | 10.6 | 12 | 15.4 | 14.5 | 14.4 | 11.3 | 14.5 | 8 | 15.5 |
| F | O | R | T | 43.7 | 14.7 | 15.8 | 10.2 | 8.3 | 16 | 17.4 | 10.4 | 15.5 | 15.5 | 10.6 | 43.7 | | | | | | | |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

SIGN NUMR: 12 TYPE: A Overhead QUANTITY: 1
 BACKG. COLOR: Green COPY COLOR: White
 DESIGN BY: DME PROJECT ID: U-4444AA
 CHK BY: DIV: 6
 STD #: S5TN DATE: May 21, 2009
 N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS TRAFFIC ENGINEERING BRANCH SIGNING DEPARTMENT

SIGN WIDTH: 18'-0" HEIGHT: 12'-6" TOTAL AREA: 225.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|---------|-------|----|-----|----|
| NC243B | 151.8 | 84 | 36 | 36 |
| a_turn2 | 18.5 | 11 | 35 | 35 |
| a_turn2 | 182.5 | 11 | 35 | 35 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 4
 LENGTH: 208.0"

USE NOTES: 1,3,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

Letter spacings are to start of next letter


| Series/Size | Text Length |
|-------------|-------------|
| D 2000 | 40.7 |
| D 2000 | 50.2 |
| D 2000 | 50.2 |
| EM 2000 | 152.5 |

| | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|-------|------|------|------|------|-----|------|------|----|------|----|------|------|------|
| N | O | R | T | H | 144.4 | 10.2 | 2.3 | 11.2 | 9.1 | 9.2 | 8.2 | 21.5 | | | | | | |
| S | P | R | I | N | G | 31.8 | 17.9 | 15.5 | 11.8 | 9.6 | 15.5 | 10.6 | 16 | 13.9 | 17 | 14.1 | 10.6 | 31.8 |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

21-MAY-2009 11:23 P:\TIPF-P01\gcs-U-4444AA\Traffic\Signing\CADD\Sign Designs\U4444aa-sign designs.dgn
 meacon AH TEC2221856

| | |
|------------------------------|----------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-3D |
| APPROVED: <i>[Signature]</i> | |
| DATE: 6/15/09 | |
| SEAL | |



SEAL
028387
ENGINEER
IVAN I. ALQODWAH

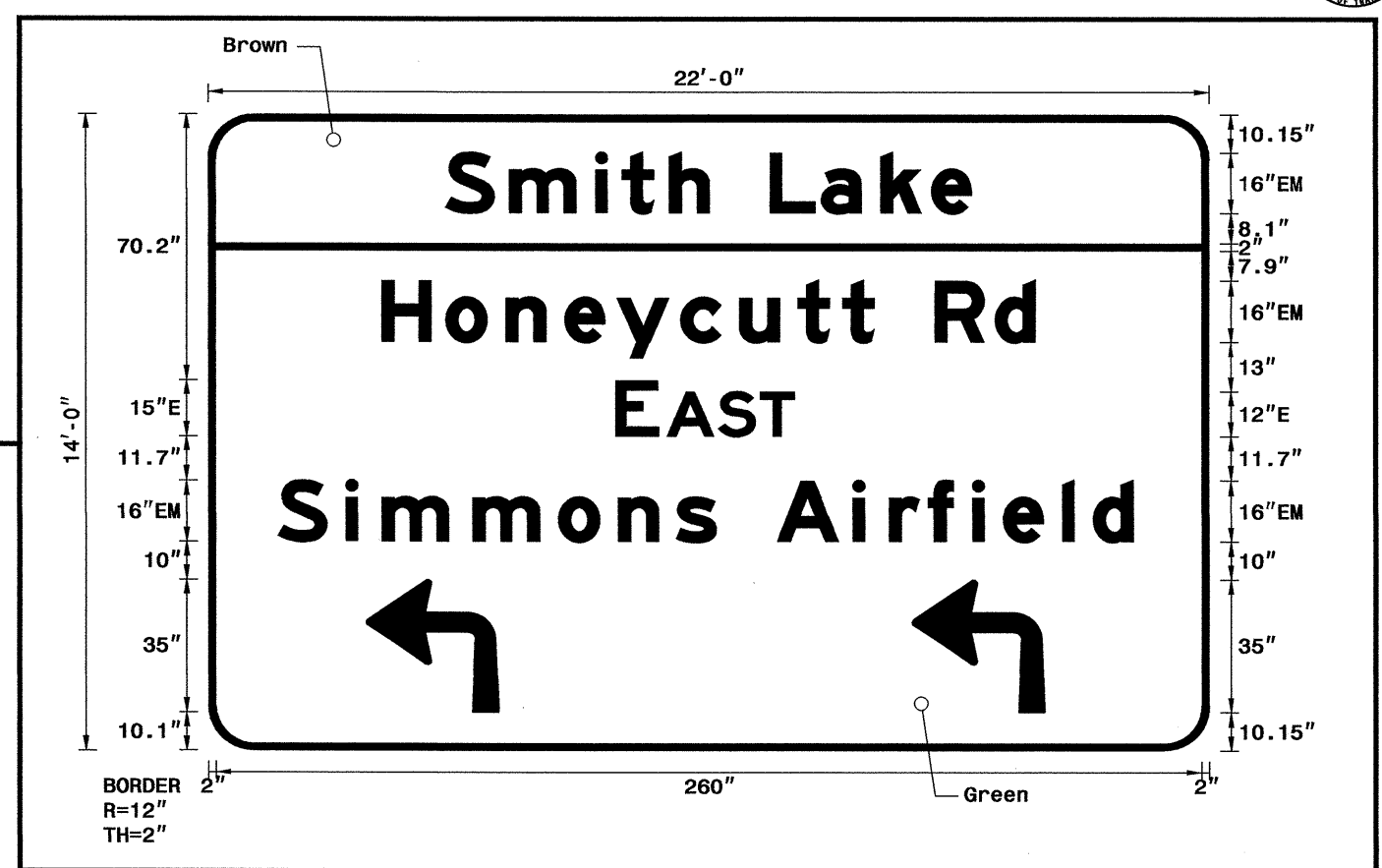
| | | | | | |
|------------------|---------------------|----------------------|---------|--------------------|--|
| SIGN NUMR: 13 | BACKG. COLOR: Green | DESIGN BY: DME | CHK BY: | STD #: SSTN | N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS |
| TYPE: A Overhead | COPY COLOR: White | PROJECT ID: U-4444AA | DIV: 6 | DATE: May 21, 2009 | TRAFFIC ENGINEERING BRANCH SIGNING DEPARTMENT |
| QUANTITY: 1 | | | | | |

SIGN WIDTH: 22'-0"
HEIGHT: 14'-0"
TOTAL AREA: 308.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|---------|-------|------|-----|----|
| a_turn2 | 41.6 | 10.2 | 35 | 35 |
| a_turn2 | 185.6 | 10.2 | 35 | 35 |

MAT'L: 0.125" ALUMINUM
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"
NO. Z BARS: 0
LENGTH: 256.0 "

USE NOTES: 1,5
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Legend and border shall be direct applied Grade C reflective sheeting.
3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
4. Background shall be Grade B reflective sheeting.
5. Background shall be Grade C reflective sheeting.
6. Center arrow(s) vertically on sign.



Letter spacings are to start of next letter

| Series/Size | Text | Length |
|-------------|-------------------------------|--------|
| EM 2000 | S m i t h L a k e | 62.6 |
| EM 2000 | H o n e y c u t t R d | 138.8 |
| EM 2000 | E A S T | 45.8 |
| E 2000 | S i m m o n s A i r f i e l d | 172.3 |
| EM 2000 | S i m m o n s A i r f i e l d | 47.1 |
| EM 2000 | S i m m o n s A i r f i e l d | 225.6 |

Spacing Factor is 1 unless specified otherwise
FILENAME: GSENG

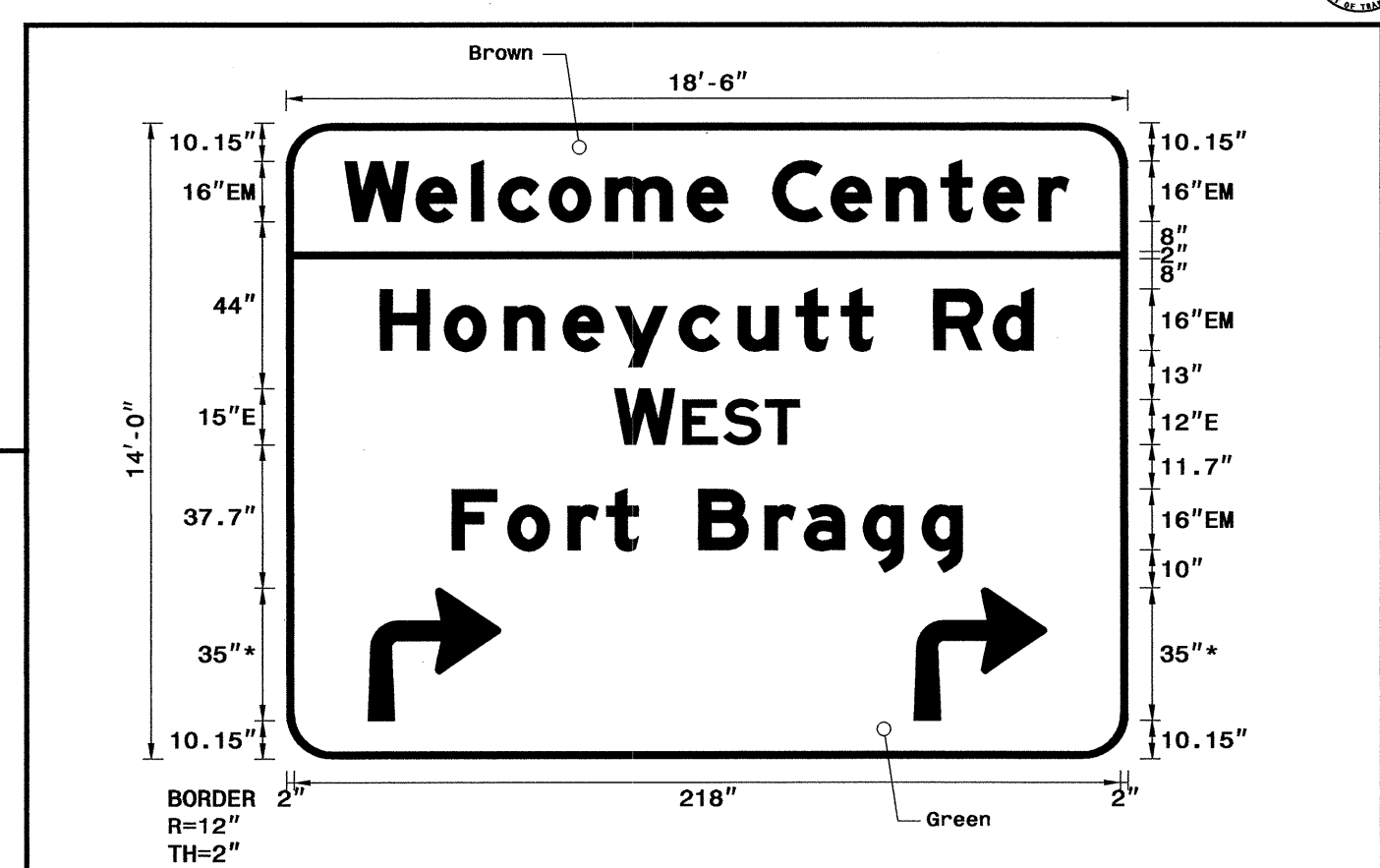
| | | | | | |
|------------------|---------------------|----------------------|---------|--------------------|--|
| SIGN NUMR: 14 | BACKG. COLOR: Green | DESIGN BY: DME | CHK BY: | STD #: SSTN | N. C. DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS |
| TYPE: A Overhead | COPY COLOR: White | PROJECT ID: U-4444AA | DIV: 6 | DATE: May 21, 2009 | TRAFFIC ENGINEERING BRANCH SIGNING DEPARTMENT |
| QUANTITY: 1 | | | | | |

SIGN WIDTH: 18'-6"
HEIGHT: 14'-0"
TOTAL AREA: 259.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|---------|-------|------|-----|----|
| a_turn2 | 21.5 | 10.2 | 35 | 35 |
| a_turn2 | 165.5 | 10.2 | 35 | 35 |

MAT'L: 0.125" ALUMINUM
BORDER TYPE: FLUSH
RECESS: 0"
WIDTH: 2"
RADII: 12"
NO. Z BARS: 0
LENGTH: 214.0 "

USE NOTES: 1,5
1. Legend and border shall be direct applied Grade A reflective sheeting.
2. Legend and border shall be direct applied Grade C reflective sheeting.
3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
4. Background shall be Grade B reflective sheeting.
5. Background shall be Grade C reflective sheeting.
6. Center arrow(s) vertically on sign.




Letter spacings are to start of next letter

| Series/Size | Text | Length |
|-------------|---------------------------|--------|
| EM 2000 | W e l c o m e C e n t e r | 15.5 |
| EM 2000 | H o n e y c u t t R d | 191 |
| EM 2000 | W E S T | 24.8 |
| E 2000 | F o r t B r a g g | 172.3 |
| EM 2000 | F o r t B r a g g | 48.8 |
| EM 2000 | F o r t B r a g g | 134.6 |

Spacing Factor is 1 unless specified otherwise
FILENAME: GSENG

SIGN DESIGNS

I5-JUN-2009 13:43
 P:\TIP-Proj\esigns-U-4444AA-Traffic\Signing\CADD\Sign Designs\U4444aa_s1gn_designs.dgn
 mealon AT 150221658

| | |
|---|----------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-3E |
| APPROVED: <i>[Signature]</i> | |
| DATE: 5/20/09 | |
| SEAL | |
|  | |


SIGN NUMR: 101,104 BACKG. COLOR: Brown DESIGN BY: DME CHK BY: STD #: \$STN N. C. DEPARTMENT OF TRANSPORTATION
 TYPE: A Ground COPY COLOR: White PROJECT ID: U-4444AA DIV: 6 DATE: May 13, 2009 DIVISION OF HIGHWAYS
 QUANTITY: 2 TRAFFIC ENGINEERING BRANCH
 SIGNING DEPARTMENT

SIGN WIDTH: 16'-0"
 HEIGHT: 7'-0"
 TOTAL AREA: 112.0 Sq.Ft.

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

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 12"
 NO. Z BARS: 3
 LENGTH: 184.0"

USE NOTES: 2,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.



Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| EM 2000 | 169.9 |
| EM 2000 | 121.2 |
| E 2000 | 88.8 |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

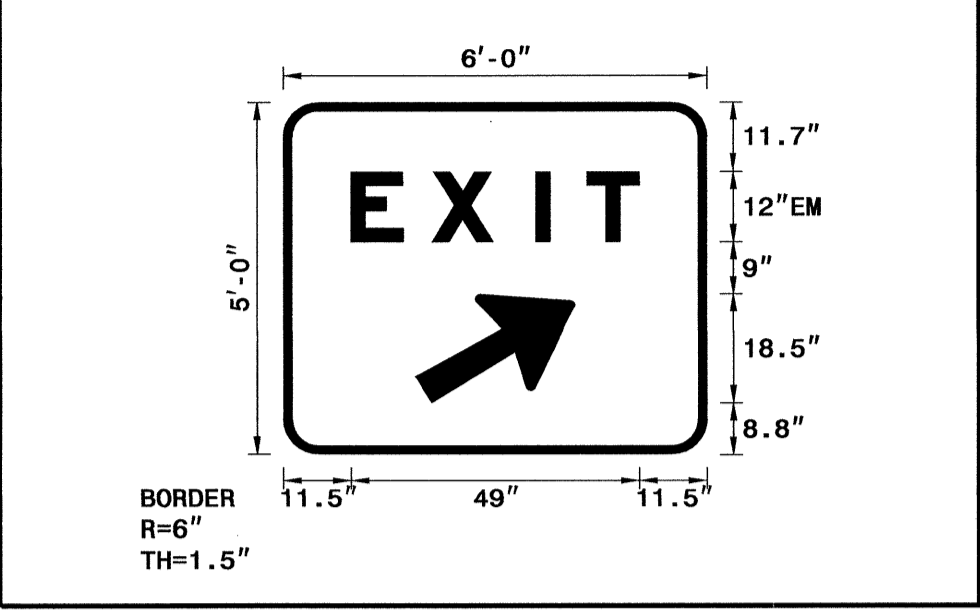
SIGN NUMR: 201,202 BACKG. COLOR: Green DESIGN BY: DME CHK BY: STD #: \$STN N. C. DEPARTMENT OF TRANSPORTATION
 TYPE: A Ground COPY COLOR: White PROJECT ID: U-4444AA DIV: 6 DATE: May 13, 2009 DIVISION OF HIGHWAYS
 QUANTITY: 2 TRAFFIC ENGINEERING BRANCH
 SIGNING DEPARTMENT

SIGN WIDTH: 6'-0"
 HEIGHT: 5'-0"
 TOTAL AREA: 30.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|------|-----|------|------|
| ARUP | 22.5 | 8.7 | 18.8 | 29.5 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1.5"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 64.0"

USE NOTES: 2,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.



Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| EM 2000 | 49 |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

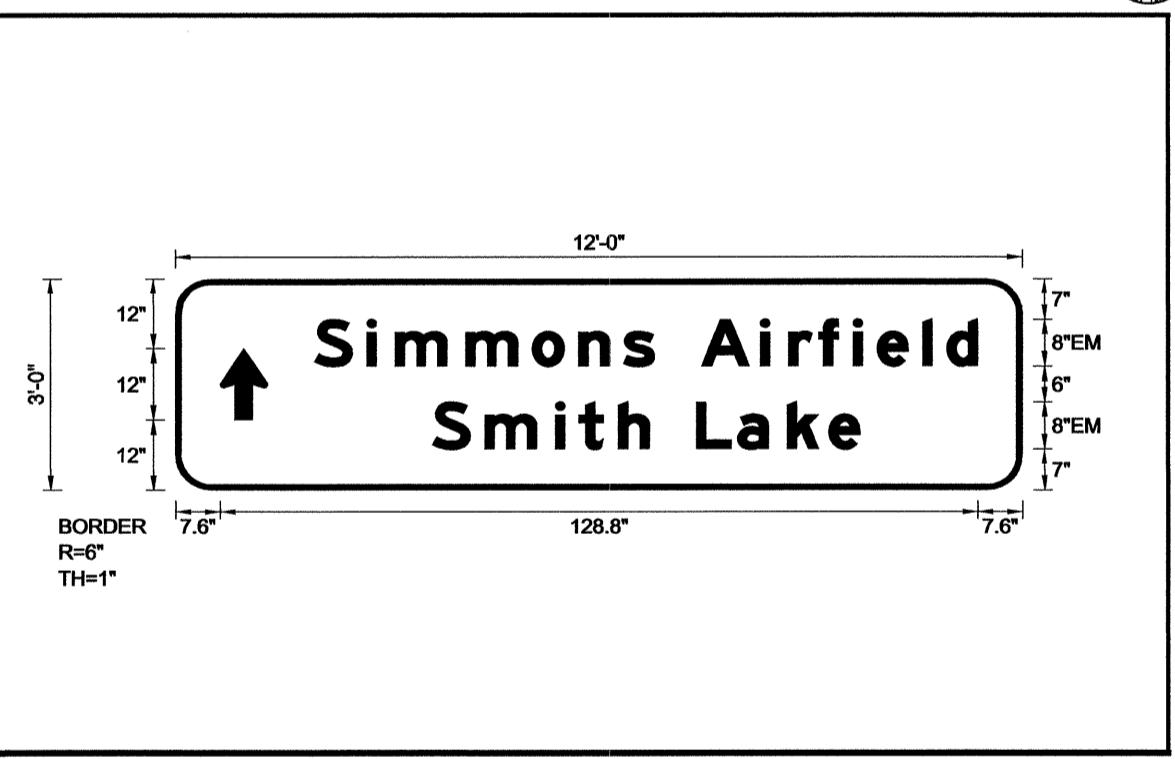
SIGN NUMR: 102 BACKG. COLOR: Green DESIGN BY: DME CHK BY: STD #: \$STN N. C. DEPARTMENT OF TRANSPORTATION
 TYPE: A Ground COPY COLOR: White PROJECT ID: U-4444AA DIV: 6 DATE: May 13, 2009 DIVISION OF HIGHWAYS
 QUANTITY: 1 TRAFFIC ENGINEERING BRANCH
 SIGNING DEPARTMENT

SIGN WIDTH: 12'-0"
 HEIGHT: 3'-0"
 TOTAL AREA: 36.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|-----|----|-----|----|
| ARUP | 7.6 | 12 | 8 | 12 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 1"
 RADII: 6"
 NO. Z BARS: 2
 LENGTH: 136.0"

USE NOTES: 2,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.



Letter spacings are to start of next letter

| Series/Size | Text Length |
|-------------|-------------|
| EM 2000 | 112.8 |
| EM 2000 | 72.7 |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

I9-MAY-2009 10:04
 P:\TIPF-03\Sign\U-4444AA\Traffic\Signing\CADD\Sign Designs\U-4444AA-Sign Designs.dgn
 meacon AT 15:22:1656

SIGN DESIGNS

| | |
|------------------------------|----------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-3F |
| APPROVED: <i>[Signature]</i> | |
| DATE: 5/13/09 | |
| SEAL | |

SIGN NUMR: 103 BACKG. COLOR: Green DESIGN BY: DME CHK BY: STD #: S8TN N. C. DEPARTMENT OF TRANSPORTATION
 TYPE: A Ground COPY COLOR: White PROJECT ID: U-4444AA DIV: 6 DATE: May 13, 2009 DIVISION OF HIGHWAYS
 QUANTITY: 1 TRAFFIC ENGINEERING BRANCH
 SIGNING DEPARTMENT

SIGN WIDTH: 21'-0"
 HEIGHT: 5'-0"
 TOTAL AREA: 105.0 Sq.Ft.

| SYMBOL | X | Y | WID | HT |
|--------|-------|------|------|------|
| ARMED | 214.9 | 18.2 | 19.2 | 30.2 |

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 9"
 NO. Z BARS: 2
 LENGTH: 244.0"

USE NOTES: 2,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

| Letter spacings are to start of next letter | | | | | | | | | | | | | | | | Series/Size | | |
|---|------|------|------|------|------|------|------|------|------|------|------|-----|------|------|-----|-------------|------|-----|
| | | | | | | | | | | | | | | | | Text Length | | |
| H | o | n | e | y | c | u | t | t | R | d | | | | | | EM 2000 | | |
| 35.8 | 14.1 | 13.2 | 12.9 | 11.5 | 14 | 12.9 | 12.8 | 9.9 | 6.9 | 13.3 | 13.2 | 8.8 | 72.7 | | | 143.6 | | |
| S | i | m | m | o | n | s | A | i | r | f | i | e | l | d | | EM 2000 | | |
| 13.6 | 14.9 | 8 | 20 | 18.8 | 13.2 | 12.7 | 8.8 | 13.3 | 16.7 | 8 | 8.5 | 9.7 | 6.8 | 12.9 | 6.8 | 8.8 | 50.5 | 188 |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

SIGN NUMR: 105 BACKG. COLOR: Green DESIGN BY: DME CHK BY: STD #: S8TN N. C. DEPARTMENT OF TRANSPORTATION
 TYPE: A Ground COPY COLOR: White PROJECT ID: U-4444AA DIV: ## DATE: May 13, 2009 DIVISION OF HIGHWAYS
 QUANTITY: 1 TRAFFIC ENGINEERING BRANCH
 SIGNING DEPARTMENT

SIGN WIDTH: 18'-0"
 HEIGHT: 6'-0"
 TOTAL AREA: 108.0 Sq.Ft.

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

MAT'L: 0.125" ALUMINUM
 BORDER TYPE: FLUSH
 RECESS: 0"
 WIDTH: 2"
 RADII: 9"
 NO. Z BARS: 2
 LENGTH: 208.0"

USE NOTES: 2,5
 1. Legend and border shall be direct applied Grade A reflective sheeting.
 2. Legend and border shall be direct applied Grade C reflective sheeting.
 3. Shields shall be Grade A reflective sheeting on 0.032" aluminum and demountable.
 4. Background shall be Grade B reflective sheeting.
 5. Background shall be Grade C reflective sheeting.
 6. Center arrow(s) vertically on sign.

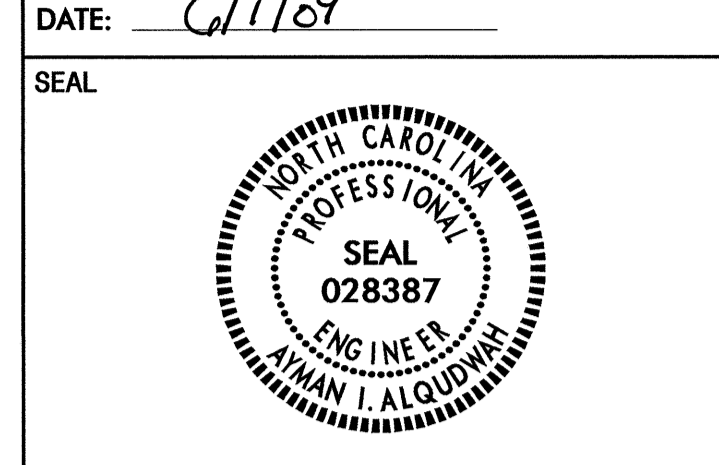
| Letter spacings are to start of next letter | | | | | | | | | | | | | | | | Series/Size | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-------------|----|--------|
| | | | | | | | | | | | | | | | | Text Length | | |
| H | o | n | e | y | c | u | t | t | R | d | | | | | | EM 2000 | | |
| 36.2 | 14.1 | 13.2 | 12.9 | 11.5 | 14 | 12.9 | 12.8 | 9.9 | 6.9 | 13.3 | 13.2 | 8.8 | 36.2 | | | 143.6 | | |
| S | i | m | m | o | n | s | A | i | r | f | i | e | l | d | | EM 2000 | | |
| 14 | 14.9 | 8 | 20 | 18.8 | 13.2 | 12.7 | 8.8 | 13.3 | 16.7 | 8 | 8.5 | 9.7 | 6.8 | 12.9 | 6.8 | 8.8 | 14 | 188 |
| E | X | I | T | 1/2 | M | I | L | E | | | | | | | | | | E 2000 |
| 61.7 | 7.1 | 8.6 | 2.8 | 6 | 12 | 17.6 | 12 | 9.6 | 3.5 | 7.4 | 6 | 61.7 | | | | | | 92.5 |

Spacing Factor is 1 unless specified otherwise
 FILENAME: GSENG

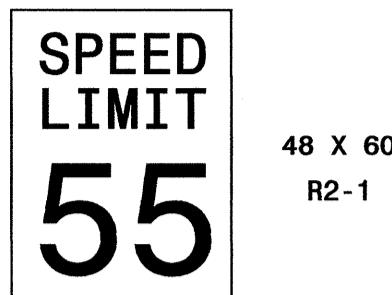
19-MAY-2009 11:05
 P:\TIPF-P\01\gts\U4444AA\Traffic\Signing\CADD\Sign Designs\U4444aa_sign_designs.dgn
 meason AT TELCZ21536

SIGN DESIGNS

APPROVED: *[Signature]*
DATE: 6/1/09



401 QUANTITY REQ'D 3



48 X 60
R2-1

TWO "U" POSTS PER SIGN

413 QUANTITY REQ'D 2



54 X 18
R6-1 (R)

TWO "U" POSTS PER SIGN

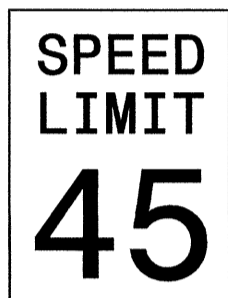
433 QUANTITY REQ'D 5



48 X 48
W9-1 (R)

TWO "U" POSTS PER SIGN

402 QUANTITY REQ'D 1



36 X 48
R2-1

TWO "U" POSTS PER SIGN

414 QUANTITY REQ'D 2

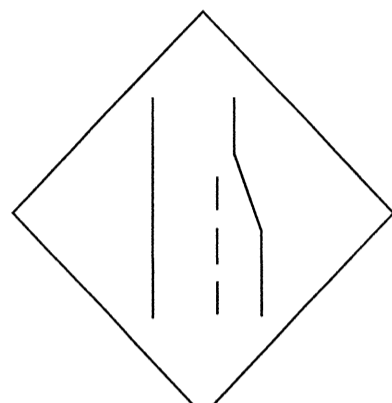


54 X 18
R6-1 (L)

MOUNT BACK-TO-BACK WITH SIGN 413
IN 1 INSTALLATIONS

TWO "U" POSTS PER SIGN

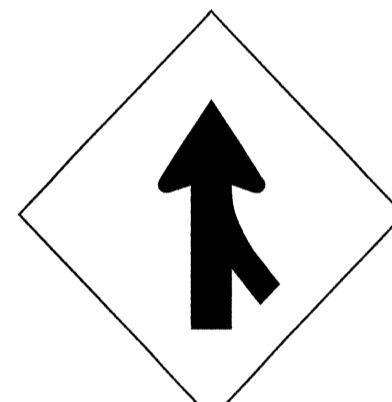
435 QUANTITY REQ'D 5



48 X 48
W4-2 (R)

TWO "U" POSTS PER SIGN

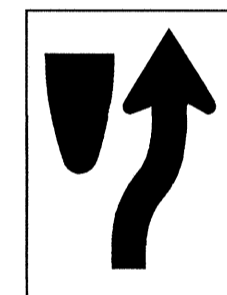
406 QUANTITY REQ'D 1



48 X 48
W4-1 (R)

TWO "U" POSTS PER SIGN

416 QUANTITY REQ'D 4



24 X 30
R4-7

ONE "U" POST PER SIGN

436 QUANTITY REQ'D 2



36 DIA.
W10-1

ONE "U" POST PER SIGN

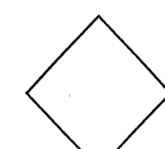
410 QUANTITY REQ'D 8



36 X 24
R5-1a

ONE "U" POST PER SIGN

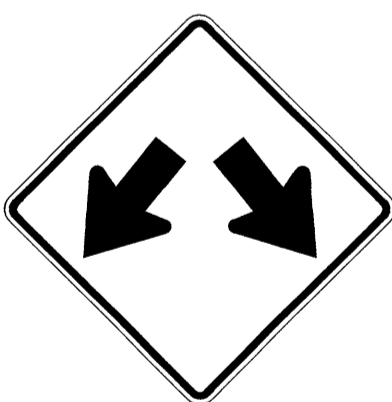
417 QUANTITY REQ'D 4



18 X 18
OM1-3

MOUNT BELOW SIGN 416
IN 4 INSTALLATIONS

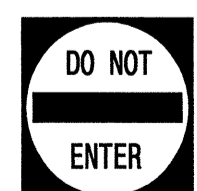
437 QUANTITY REQ'D 1



36 X 36
W12-1

ONE "U" POST PER SIGN

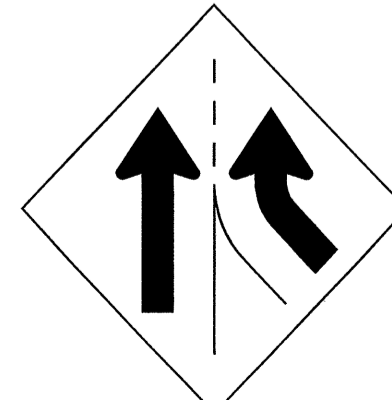
411 QUANTITY REQ'D 4



30 X 30
R5-1

ONE "U" POST PER SIGN

424 QUANTITY REQ'D 1



48 X 48
W4-3 (R)

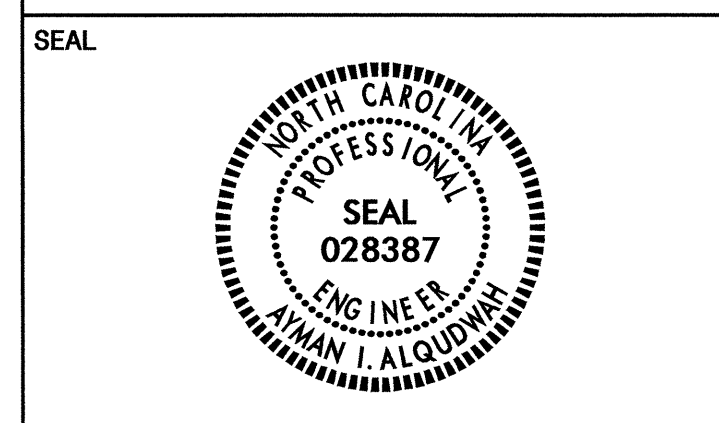
TWO "U" POSTS PER SIGN

DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE

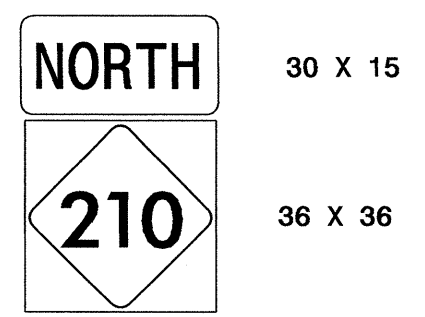
TYPE "E" SIGNS

01-JUN-2009 08:10 P:\JHP\Projects\UCC21656\Traffic\Signing\CADD\Signing Layout Plans\U-4444aa-sgn_t1.tle.dgn
 meabon AI TELC21656

APPROVED: *[Signature]*
 DATE: 6/1/09

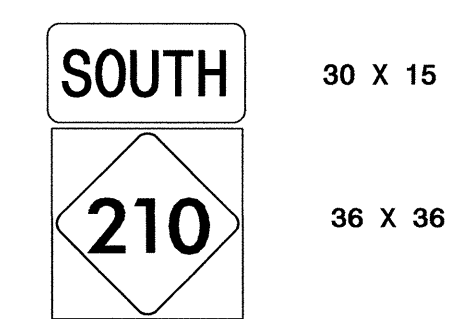


501



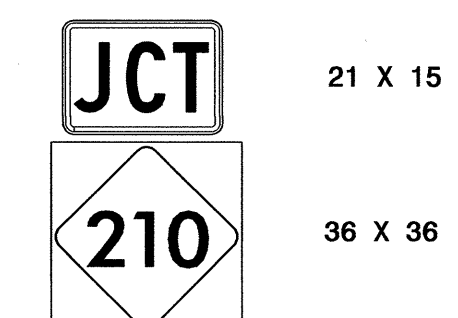
ONE "U" POST PER SIGN

502



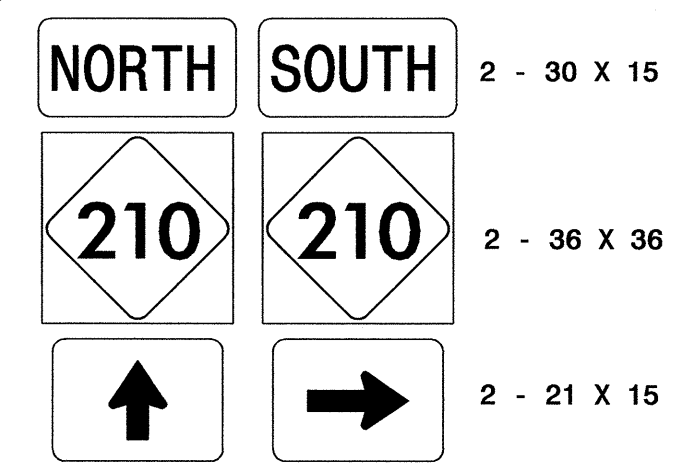
ONE "U" POST PER SIGN

503 504



ONE "U" POST PER SIGN


505

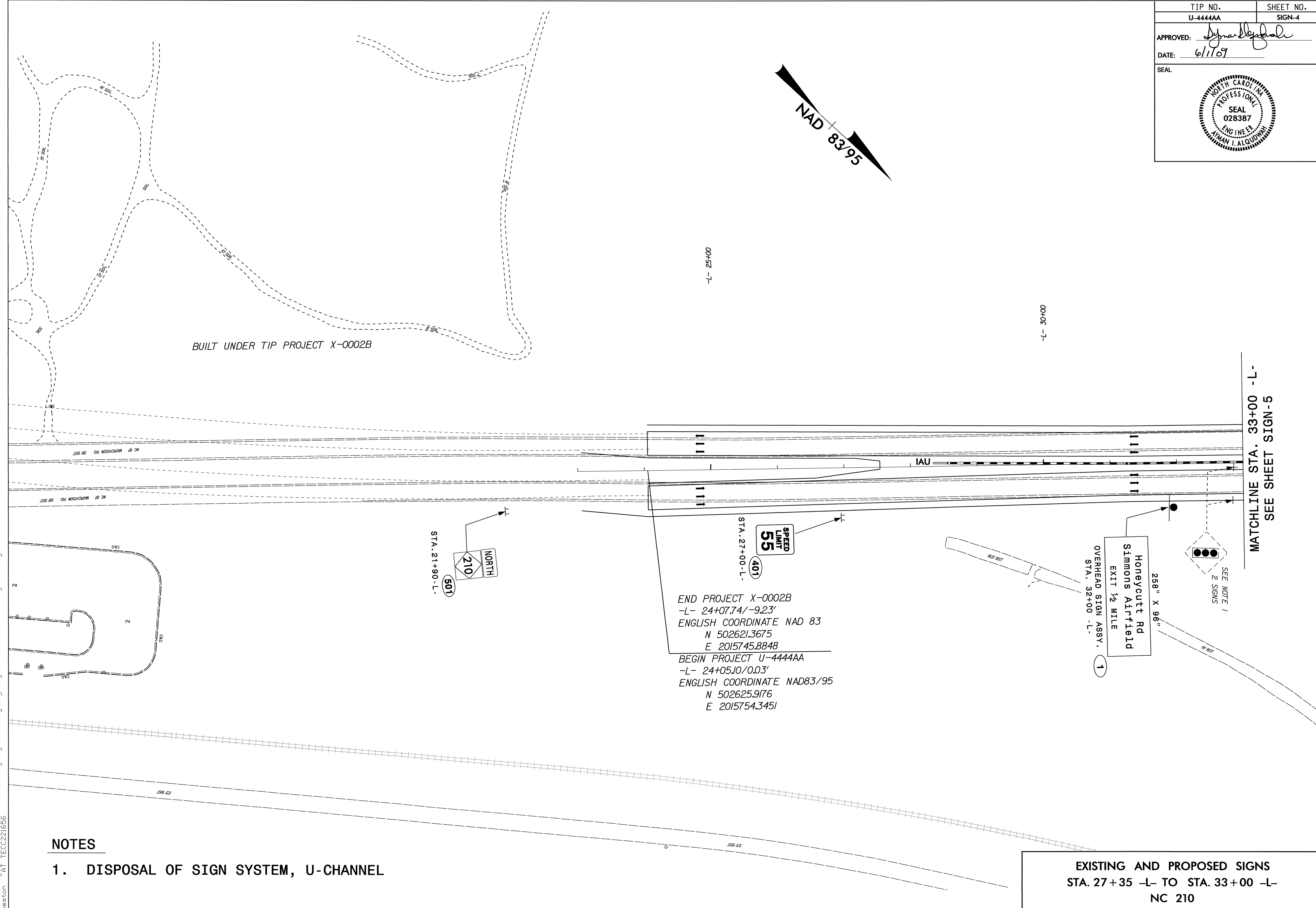
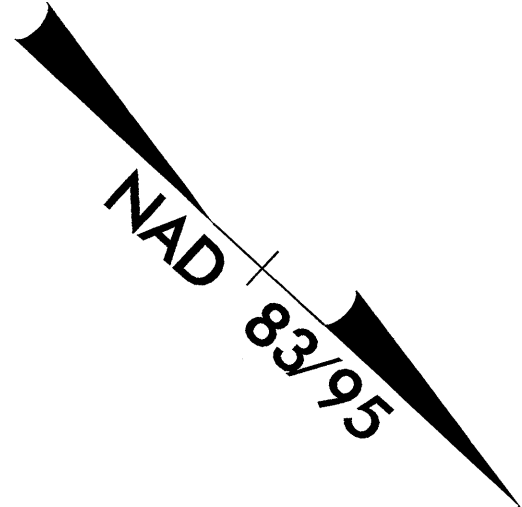


TWO "U" POSTS PER SIGN


DIMENSIONS ARE IN INCHES UNLESS SPECIFIED OTHERWISE


TYPE "F" SIGNS

| | |
|---|---------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-4 |
| APPROVED: <i>Sydney [Signature]</i> | |
| DATE: 6/1/09 | |
| SEAL | |
|  | |



BUILT UNDER TIP PROJECT X-0002B

STA. 21+90 -L-

 (501)

STA. 27+00 -L-

 (401)
 END PROJECT X-0002B
 -L- 24+07.74/-9.23'
 ENGLISH COORDINATE NAD 83
 N 502621.3675
 E 2015745.8848
 BEGIN PROJECT U-4444AA
 -L- 24+05.10/0.03'
 ENGLISH COORDINATE NAD83/95
 N 502625.9176
 E 2015754.3451

258" X 96"
 OVERHEAD SIGN ASSY.
 (1)
 Honeycutt Rd
 Simmons Airfield
 EXIT 1/2 MILE
 STA. 32+00 -L-

MATCHLINE STA. 33+00 -L-
 SEE SHEET SIGN-5

SEE NOTE 1
 2 SIGNS

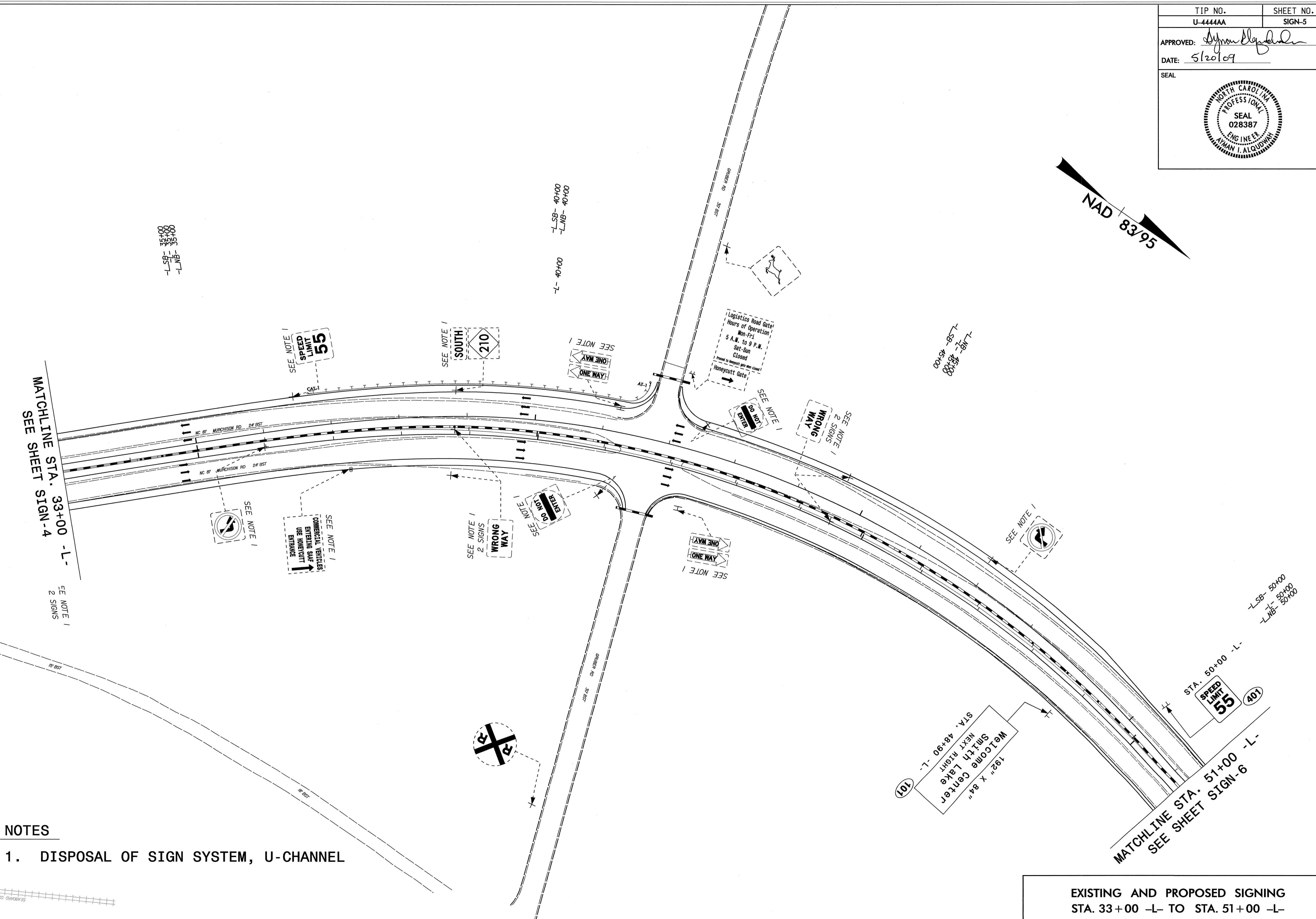
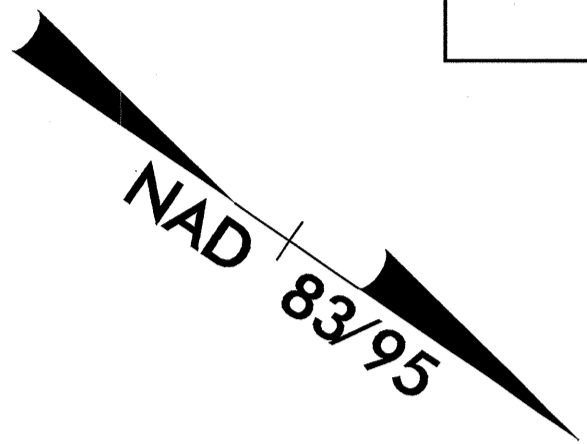
NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

**EXISTING AND PROPOSED SIGNS
 STA. 27+35 -L- TO STA. 33+00 -L-
 NC 210**

2-MAY-2009 12:23
 F:\TIP-Projects\4444AA\Traffic\Signing\CADD\Signing Layout\Plans\ur-4444aa-sgn-sh1.dgn
 mason AT TEC221656

| | |
|------------------------------|---------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-5 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 5/20/09 | |
| SEAL | |



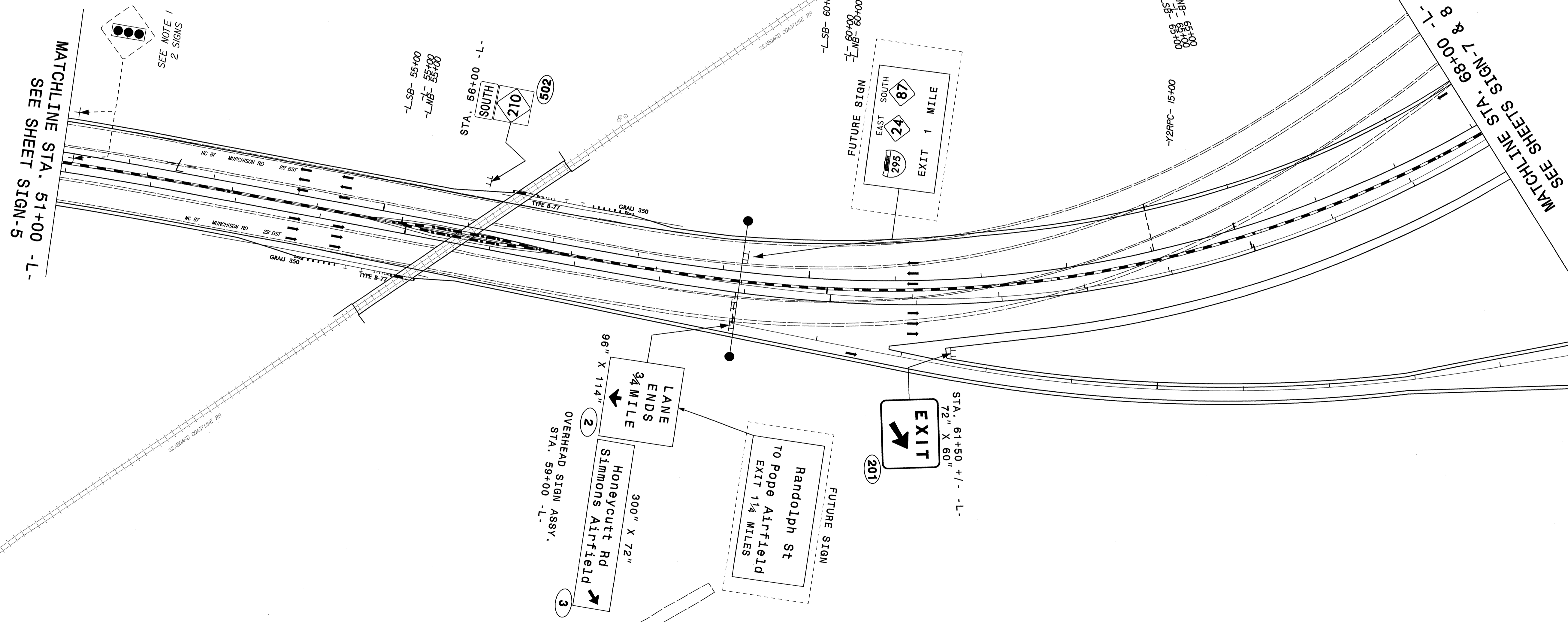
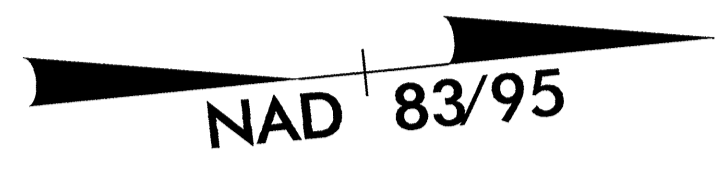
NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

EXISTING AND PROPOSED SIGNING
 STA. 33+00 -L- TO STA. 51+00 -L-
 NC 210

19-MAY-2009 08:09
 F:\TIP-Projects\U-4444AA\Traffic\Signing\CADD\Signing_Layout\Plans\U-4444AA.e.sgn.shx2.dgn
 mbacon

| | |
|------------------------------|---------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-6 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 6/1/09 | |
| SEAL | |




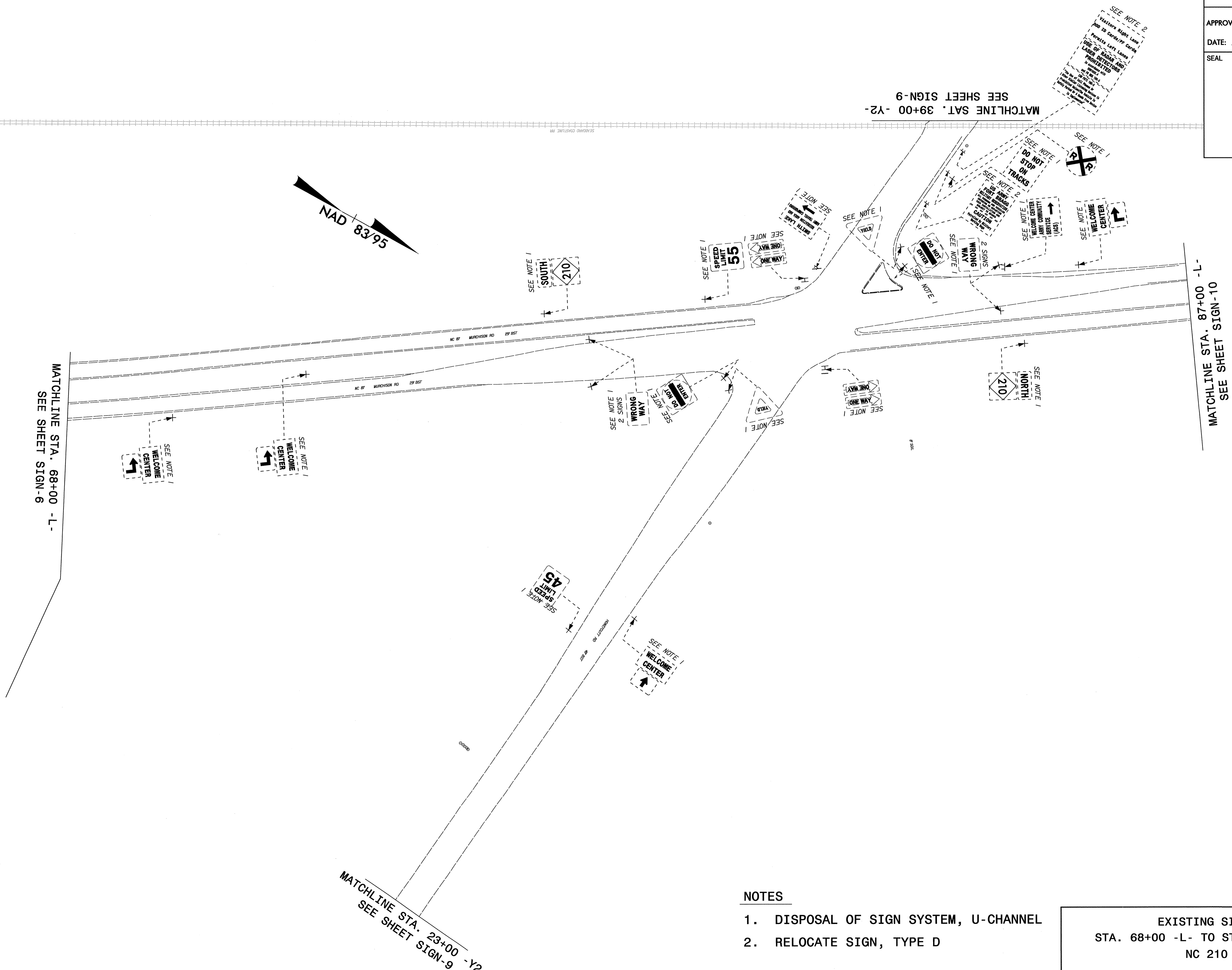
NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

EXISTING AND PROPOSED SIGNS
STA. 51+00 -L- TO STA. 68+00 -L-
NC 210

21-MAY-2009 13:41
 P:\TIPProje\4444AA\Traffic\Signing\CADD\Signing Layout Plans\U-4444AA.sgn_sht3.dgn
 meaton AT EC221556

| | |
|---|---------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-7 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 5/20/09 | |
| SEAL | |
|  | |



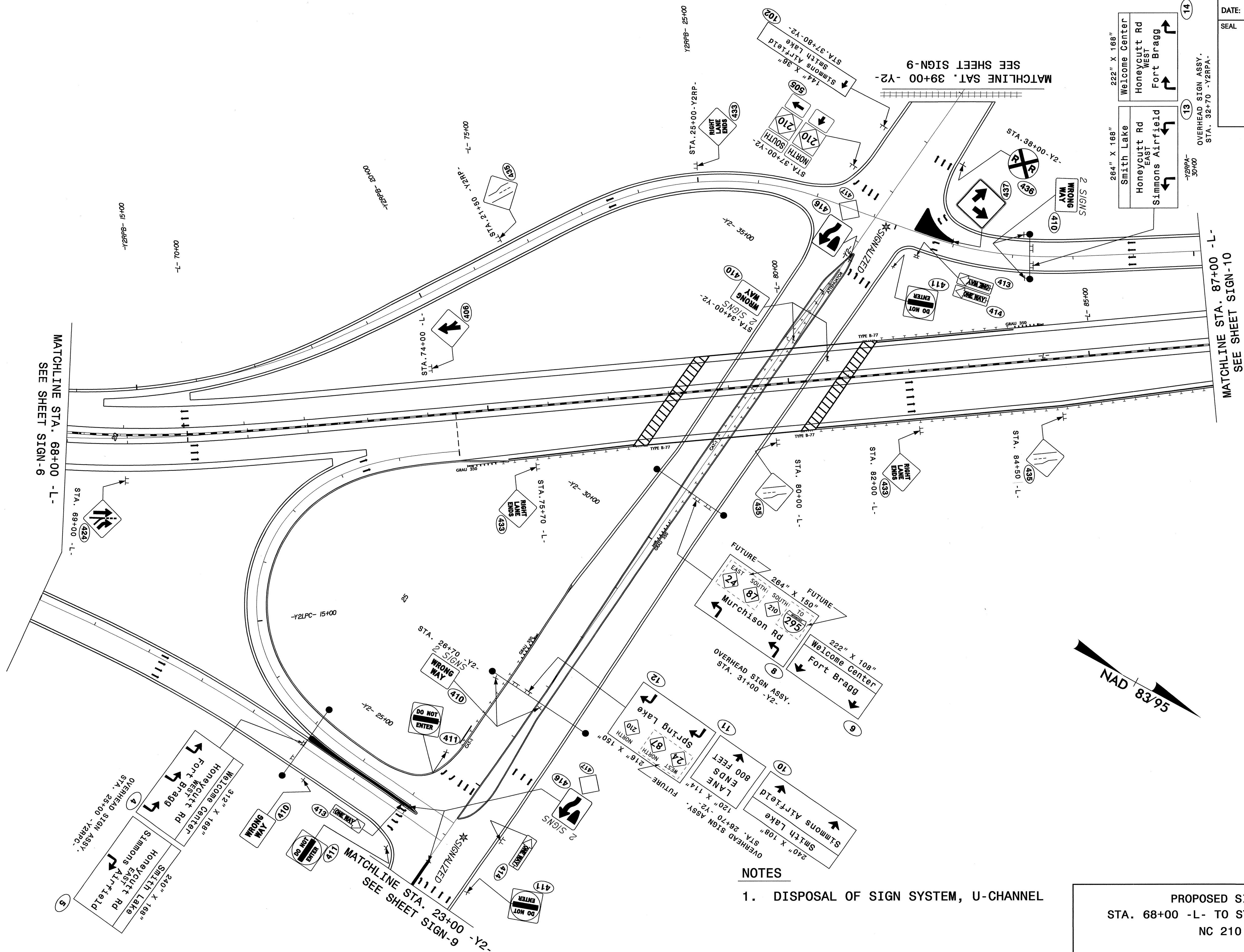
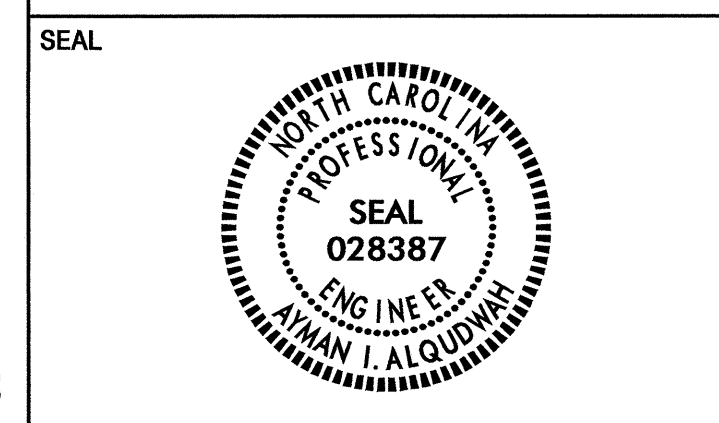
NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. RELOCATE SIGN, TYPE D

EXISTING SIGNS
STA. 68+00 -L- TO STA. 87+00 -L-
NC 210

19-MAY-2009 08:20
 P:\PPF-0\Projects\4444AA\Traffic\Signing\Layout\Plans\ur-4444aa.sgn_sht4tb.dgn
 meason AT 100221656

APPROVED: *[Signature]*
DATE: 6/15/09



MATCHLINE STA. 68+00 -L-
SEE SHEET SIGN-6

MATCHLINE STA. 39+00 -Y2-
SEE SHEET SIGN-9

MATCHLINE STA. 87+00 -L-
SEE SHEET SIGN-10

NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

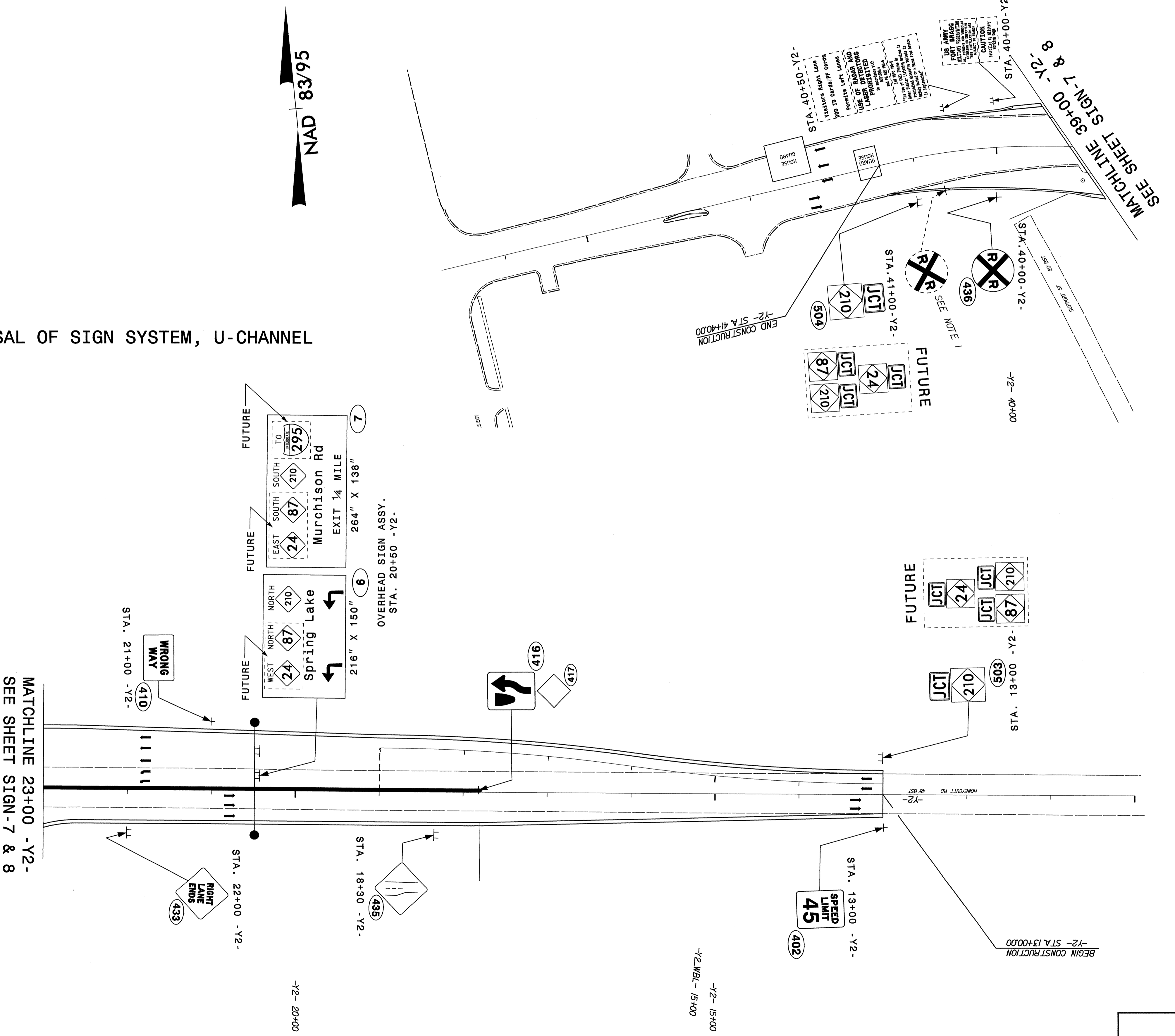
PROPOSED SIGNS
STA. 68+00 -L- TO STA. 87+00 -L-
NC 210

I5-JUN-2009 14:31
 P:\TIPF-e\projects\U-4444AA\Traffic\Signing\Layout\Plans\ur-4444aa_sgn_sht4.dgn
 meason AT TELC221636

NAD 83/95

NOTES

- DISPOSAL OF SIGN SYSTEM, U-CHANNEL

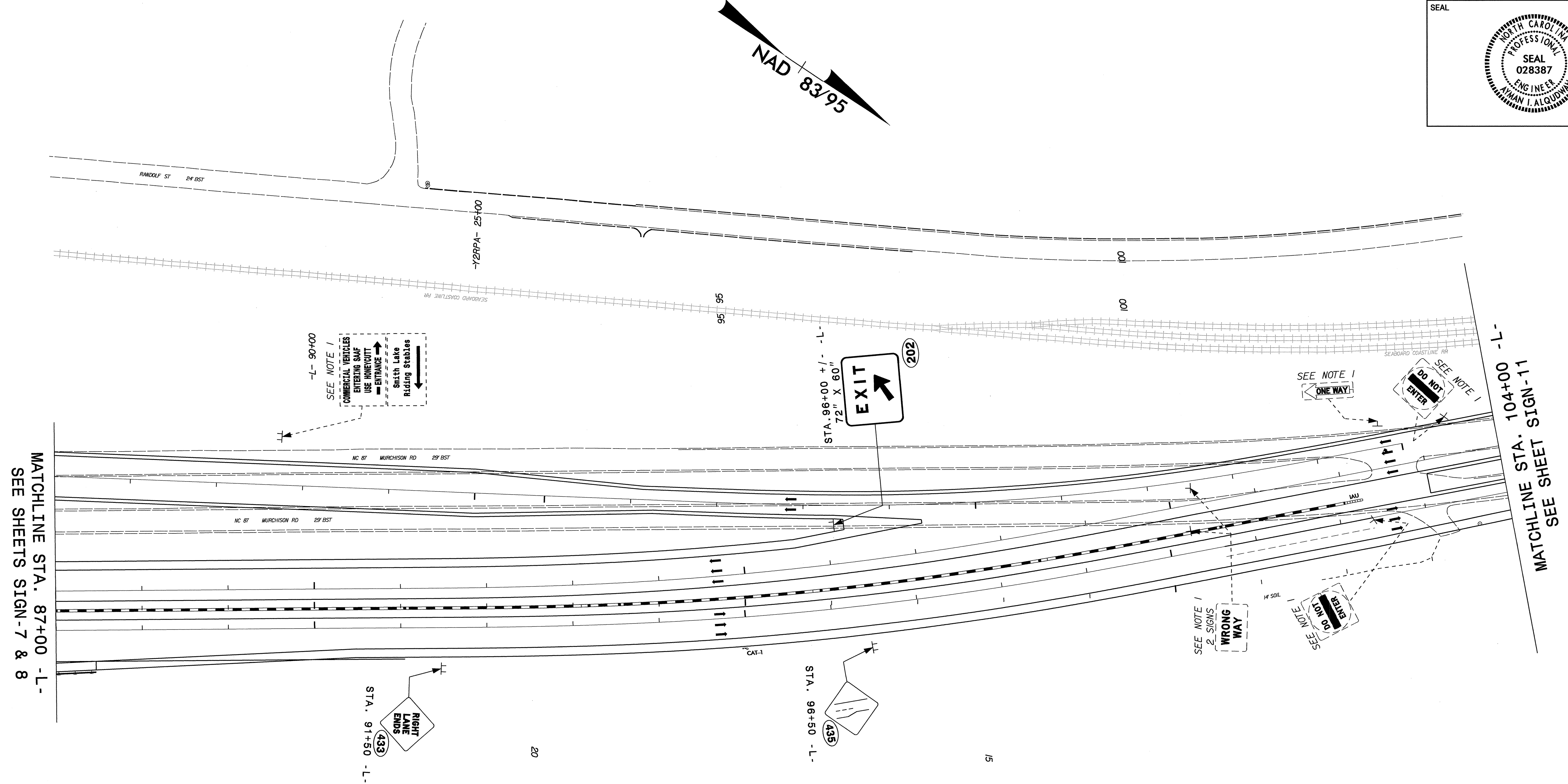
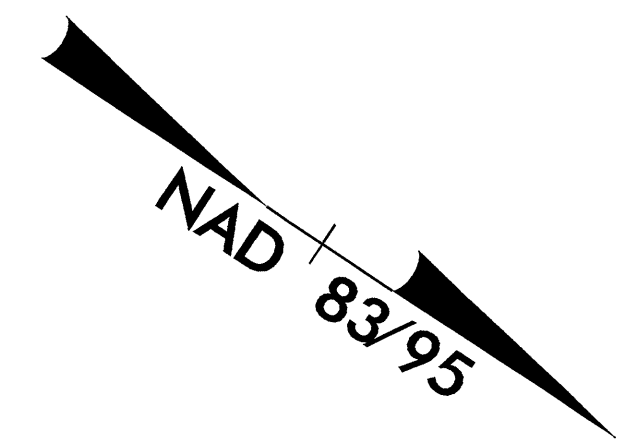


EXISTING AND PROPOSED SIGNS
 STA. 10+00 -Y2- TO STA. 23+00 -Y2-
 STA. 39+00 -Y2- TO STA. 49+00 -Y2-
 HONEYCUTT RD.

NAD 83/95

F:\IP\p\0\602\5535\17\17.dwg
 15-JUN-2009 13:11:53
 E:\CC00222222\05993838.dgn
 Layout Plans\U-4444aa.sgn-shk4a.dgn

| | |
|------------------------------|----------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-10 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 5/20/09 | |
| SEAL | |



MATCHLINE STA. 87+00 -L-
SEE SHEETS SIGN-7 & 8

MATCHLINE STA. 104+00 -L-
SEE SHEET SIGN-11

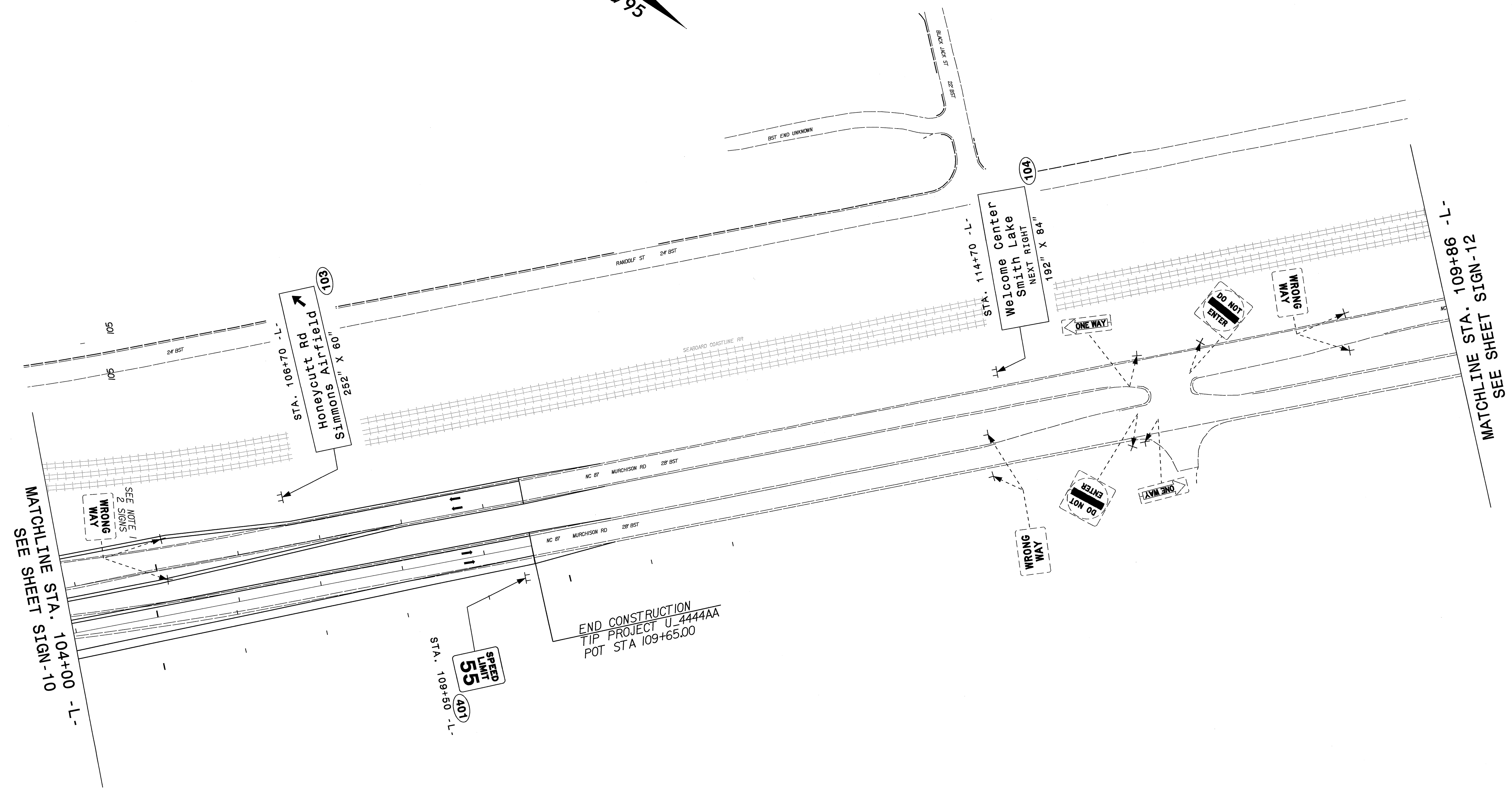
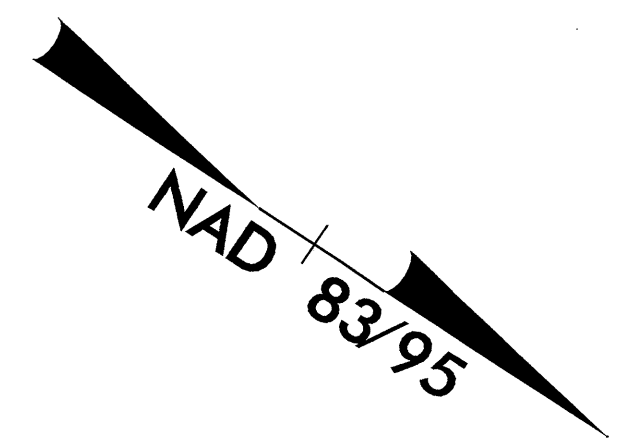
NOTES

1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL

EXISTING AND PROPOSED SIGNS
STA 87+00 -L- TO STA. 104+00 -L-
NC 210

19-MAY-2009 08:28
F:\JPPF-0\gcs\210\Traffic\CADD\Signing\Layout\Plans\U-4444aa-sgn-sh15.dgn
mealon AT 1E0C2E1F56

| | |
|------------------------------|----------------------|
| TIP NO. U-4444AA | SHEET NO. SIGN-11 |
| APPROVED: <i>[Signature]</i> | |
| DATE: 5/20/09 | |
| SEAL | |
| | |



MATCHLINE STA. 104+00 -L-
SEE SHEET SIGN-10

MATCHLINE STA. 109+86 -L-
SEE SHEET SIGN-12

END CONSTRUCTION
TIP PROJECT U_4444AA
POT STA 109+65.00

NOTES

- DISPOSAL OF SIGN SYSTEM, U-CHANNEL

EXISTING AND PROPOSED SIGNS
STA. 104+00 -L- TO STA. 109+86 -L-
NC 210

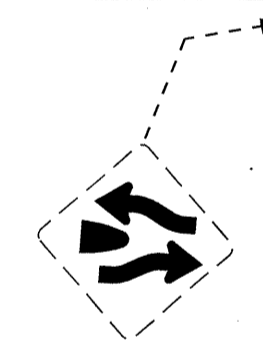
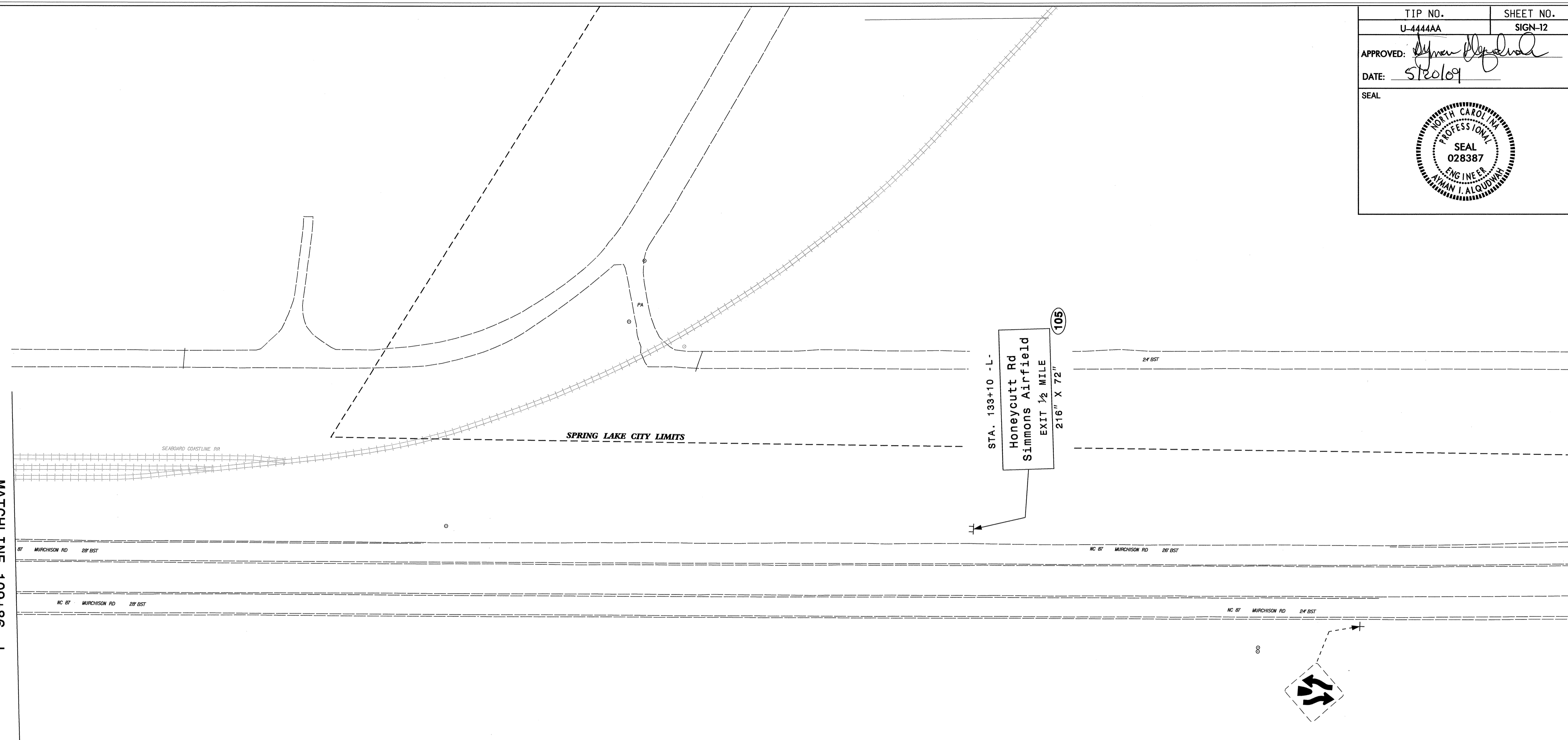
P:\MAY-2009 08457 U-4444AA\Traffic\Signing\CADD\Signing Layout Plans\U-4444AA.sgn_sh+6.dgn
Revision: AL 100221658

APPROVED: *[Signature]*

DATE: 5/20/09



MATCHLINE 109+86 -L-
SEE SHEET SIGN-11



EXISTING AND PROPOSED SIGNS
STA. 109+86 -L- TO STA. 115+90 -L-
NC 210