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**STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION**

**SIGNING PLAN  
WAKE COUNTY**

**LOCATION: I-40 FROM WADE AVENUE BRIDGES TO  
WEST OF US 1/US 64**

|  |                            |
|--|----------------------------|
| PROJECT REFERENCE NO.<br><b>I-5943</b>   | SHEET NO.<br><b>SIGN-1</b> |
| APPROVED: <br>F32AC5CAF985472... |                            |
| DATE: 02/08/2022   |                            |
| SEAL<br>                        |                            |
| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>   |                            |

**T.I.P.: I-5943**

**CONTRACT: C204694**

**ROADWAY STANDARD DRAWING**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 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                                 |
| 904.20   | SECONDARY SIGN MOUNTING                                      |
| 904.30   | SUPPLEMENTAL SIGN MOUNTING                                   |
| 904.40   | MILEPOST AND PLACEMENT                                       |
| 904.50   | MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS |

**GENERAL NOTES**

- . SIGNS FURNISHED BY STATE
- . CONFIRM IN WRITING AT LEAST 4 MONTHS IN ADVANCE, THE ACTUAL DATE THE DEPARTMENT FURNISHED SIGNS WILL BE REQUIRED.
- . WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- . 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.

**SUMMARY OF QUANTITIES**

| ITEM NO.   | ITEM DESCRIPTION |  | QUANTITY | UNIT |
|------------|------------------|--|----------|------|
| DESC. NO.  | SECT. NO.        |  |          |      |
| 4048000000 | 902              | REINFORCED CONCRETE SIGN FOUNDATION    | 3        | C.Y. |
| 4054000000 | 902              | PLAIN CONCRETE SIGN FOUNDATION         | 2        | C.Y. |
| 4060000000 | 903              | SUPPORTS, BREAKAWAY STEEL BEAM         | 4452     | LB.  |
| 4072000000 | 903              | SUPPORTS, 3 LB STEEL U-CHANNEL         | 12       | EA.  |
| 4108000000 | 904              | SIGN ERECTION, TYPE F                  | 5        | EA.  |
| 4110000000 | 904              | SIGN ERECTION, TYPE A (GROUND MOUNTED) | 8        | EA.  |
| 4114000000 | 904              | SIGN ERECTION, MILEMARKERS             | 12       | EA.  |
| 4152000000 | 907              | DISPOSAL OF SIGN SYSTEM, STEEL BEAM    | 9        | EA.  |
| 4155000000 | 907              | DISPOSAL OF SIGN SYSTEM, U-CHANNEL     | 17       | EA.  |

**PROJECT NOTES**

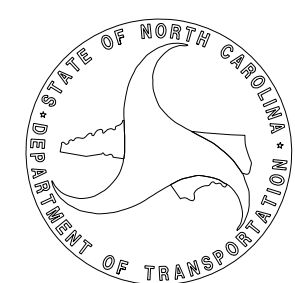
1. DISPOSAL OF SIGN SYSTEM, U-CHANNEL
2. DISPOSAL OF SIGN SYSTEM, STEEL BEAM

**INDEX**

| SHEET NO. | DESCRIPTION                    |
|-----------|--------------------------------|
| SIGN-1    | TITLE SHEET                    |
| SIGN-2    | SUPPORT INFORMATION            |
| SIGN-3-3A | SIGN DESIGN SHEETS             |
| SIGN-4    | TYPE 'F' SIGNS AND MILEMARKERS |
| SIGN-5-9  | SIGNING PLAN SHEETS            |

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

**A. I. ALQUDWAH, PE** SIGNING & DELINEATION REGIONAL ENGINEER  
**D. H. BEARD** SIGNING & DELINEATION PROJECT DESIGN ENGINEER



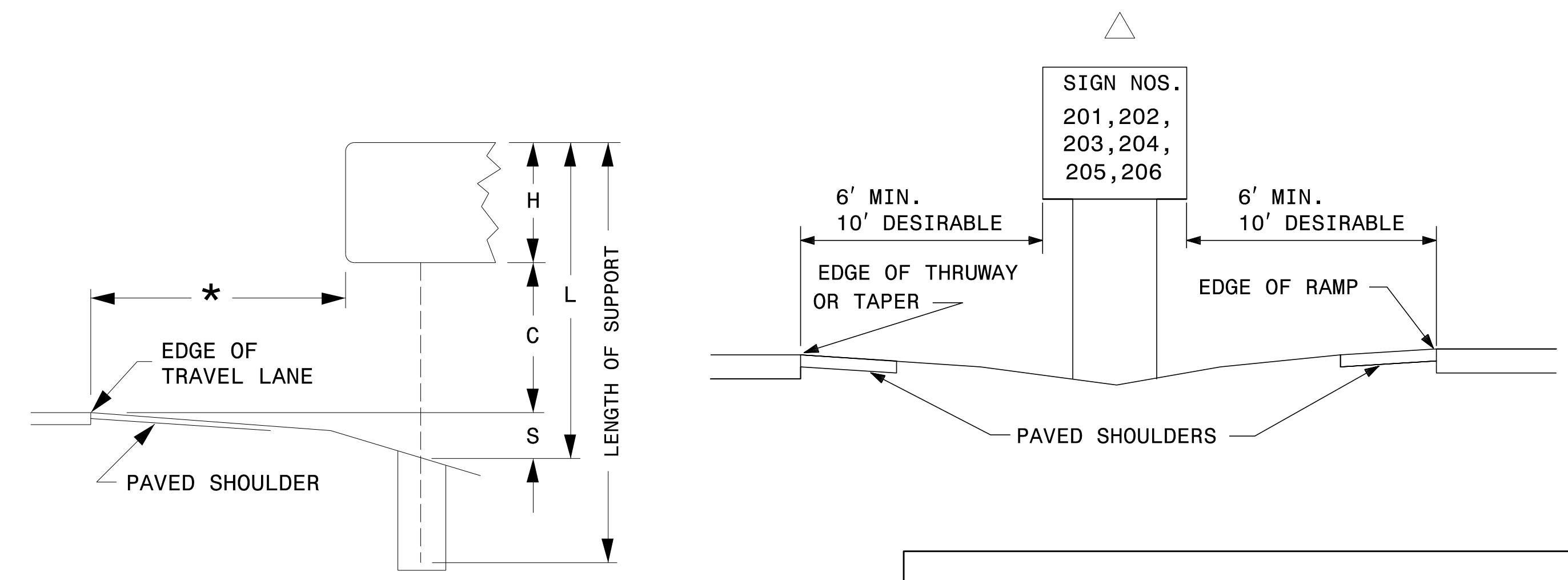
Version: 3.1 Posted: 6/2/2017

| NUMBER | TYPE | SIGN SIZE (in.) |   |     | ROADWAY STATION     | NUMBER OF SUPPORTS | BEAM SECTION | SUPPORT TYPE BA or S | OMNI COUPLER | ATTACHMENT METHOD | MOUNTING METHOD | HORIZONTAL CLEARANCE* (ft.) | SUPPORT SPACING | LENGTH (ft) |            |            | LEFT SUPPORT (ft) |       |        | CENTER SUPPORT (ft) |       |        | RIGHT SUPPORT (ft) |       |        | SUPPORT WEIGHTS |               | FOOTINGS       |             |                   |              | FIELD VERIFIED SEE NOTE 2 (mm/dd/yy) |
|--------|------|-----------------|---|-----|---------------------|--------------------|--------------|----------------------|--------------|-------------------|-----------------|-----------------------------|-----------------|-------------|------------|------------|-------------------|-------|--------|---------------------|-------|--------|--------------------|-------|--------|-----------------|---------------|----------------|-------------|-------------------|--------------|--------------------------------------|
|        |      | w               | x | h   |                     |                    |              |                      |              |                   |                 |                             |                 | SNS HT "H"  | MTG HT "C" | EMBED-MENT | S                 | L     | LENGTH | S                   | L     | LENGTH | S                  | L     | LENGTH | B/A (lbs.)      | SIMPLE (lbs.) | DIAMETER (ft.) | DEPTH (ft.) | REINFORCED (c.y.) | PLAIN (c.y.) |                                      |
|        |      |                 |   |     |                     |                    |              |                      |              |                   |                 |                             |                 |             |            |            |                   |       |        |                     |       |        |                    |       |        |                 |               |                |             |                   |              |                                      |
| 101    | A    | 276             | x | 114 | 20' BEFORE EXISTING | 3                  | W6x16        | BA                   | N/A          | N/A               | N/A             | 25.00                       | 8.17            | 9.50        | 7.00       | 4.5        | 2.83              | 19.33 | 23.83  | 3.25                | 19.75 | 24.25  | 3.33               | 19.83 | 24.33  | 1299.56         | 0             | 1.5            | 5           | 0.98              | 0.00         | _____                                |
| 102    | A    | 228             | x | 132 | 20' BEFORE EXISTING | 3                  | W6x16        | BA                   | N/A          | N/A               | N/A             | 21.00                       | 6.75            | 11.00       | 7.00       | 4.0        | 1.58              | 19.58 | 23.58  | 0.92                | 18.92 | 22.92  | 0.33               | 18.33 | 22.33  | 1242.28         | 0             | 1.5            | 4.5         | 0.88              | 0.00         | _____                                |
| 103    | A    | 156             | x | 102 | 20' BEFORE EXISTING | 2                  | W6x12        | BA                   | N/A          | N/A               | N/A             | 28.00                       | 7.62            | 8.50        | 7.50       | 3.5        | 1.66              | 17.66 | 21.16  | 0.00                | 0.00  | 0.00   | -0.50              | 15.50 | 19.00  | 559.92          | 0             | 1.5            | 4           | 0.52              | 0.00         | _____                                |
| 201    | A    | 96              | x | 60  | _____               | 2                  | S3x5.7       | BA                   | N/A          | N/A               | N/A             | Δ                           | 4.69            | 5.00        | 7.00       | 2.5        | 1.00              | 13.00 | 15.50  | 0.00                | 0.00  | 0.00   | 1.00               | 13.00 | 15.50  | 212.70          | 0             | 1.0            | 3           | 0.00              | 0.17         | _____                                |
| 202    | A    | 96              | x | 60  | _____               | 2                  | S3x5.7       | BA                   | N/A          | N/A               | N/A             | Δ                           | 4.69            | 5.00        | 7.00       | 2.5        | 1.00              | 13.00 | 15.50  | 0.00                | 0.00  | 0.00   | 1.00               | 13.00 | 15.50  | 212.70          | 0             | 1.0            | 3           | 0.00              | 0.17         | _____                                |
| 203    | A    | 96              | x | 60  | _____               | 2                  | S3x5.7       | BA                   | N/A          | N/A               | N/A             | Δ                           | 4.69            | 5.00        | 7.00       | 2.5        | 1.00              | 13.00 | 15.50  | 0.00                | 0.00  | 0.00   | 1.00               | 13.00 | 15.50  | 212.70          | 0             | 1.0            | 3           | 0.00              | 0.17         | _____                                |
| 204    | A    | 96              | x | 60  | _____               | 2                  | S3x5.7       | BA                   | N/A          | N/A               | N/A             | Δ                           | 4.69            | 5.00        | 7.00       | 2.5        | 1.00              | 13.00 | 15.50  | 0.00                | 0.00  | 0.00   | 1.00               | 13.00 | 15.50  | 212.70          | 0             | 1.0            | 3           | 0.00              | 0.17         | _____                                |
| 205A   | B    | 72              | x | 24  | _____               | 2                  | S4x7.7       | BA                   | N/A          | 1-R               | N/A             | Δ                           | 4.69            | 5.00        | 7.00       | 3.0        | 1.00              | 13.00 | 16.00  | 0.00                | 0.00  | 0.00   | 1.00               | 13.00 | 16.00  | 286.40          | 0             | 1.0            | 3.5         | 0.00              | 0.20         | _____                                |
| 205B   | A    | 96              | x | 60  | _____               | 2                  | S4x7.7       | BA                   | N/A          | N/A               | N/A             | Δ                           | 4.69            | 5.00        | 7.00       | 3.0        | 1.00              | 13.00 | 16.00  | 0.00                | 0.00  | 0.00   | 1.00               | 13.00 | 16.00  | 286.40          | 0             | 1.0            | 3.5         | 0.00              | 0.20         | _____                                |
| 206    | A    | 96              | x | 60  | _____               | 2                  | S3x5.7       | BA                   | N/A          | N/A               | N/A             | Δ                           | 4.69            | 5.00        | 7.00       | 2.5        | 1.00              | 13.00 | 15.50  | 0.00                | 0.00  | 0.00   | 1.00               | 13.00 | 15.50  | 212.70          | 0             | 1.0            | 3           | 0.00              | 0.17         | _____                                |

|       |         |       |      |       |      |       |      |
|-------|---------|-------|------|-------|------|-------|------|
| TOTAL | 4451.66 | TOTAL | 0.00 | TOTAL | 2.39 | TOTAL | 1.08 |
| USE:  | 4452.00 |       | 0.00 |       | 3.00 |       | 2.00 |

**NOTES**

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



**SUPPORT INFORMATION  
GROUND MOUNTED SIGNS**

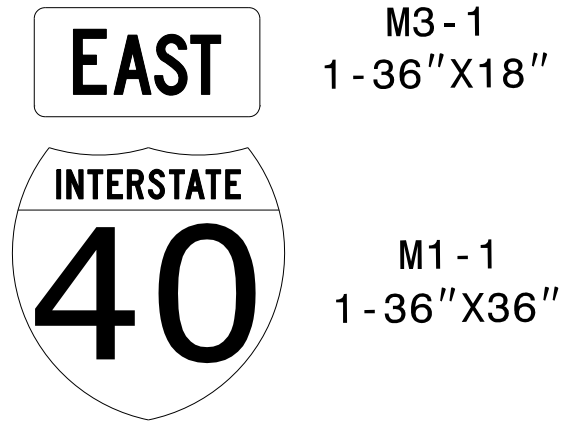
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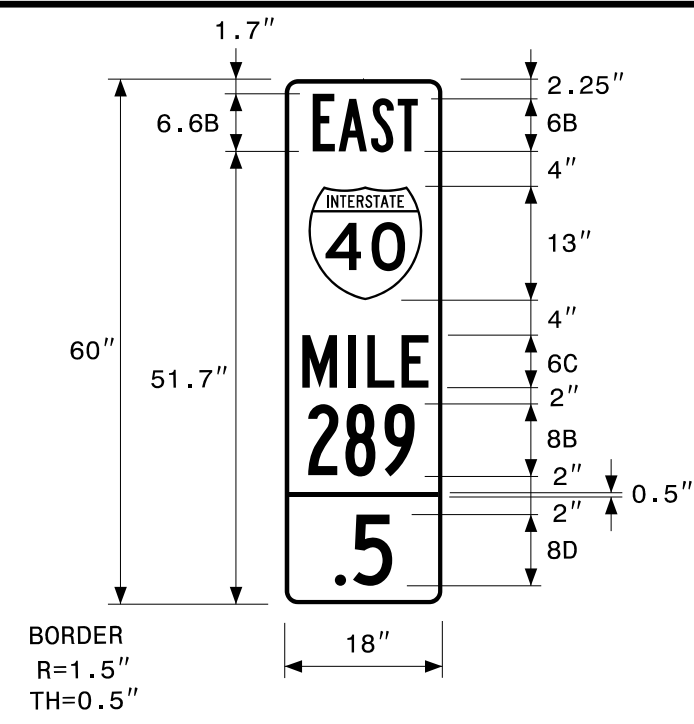




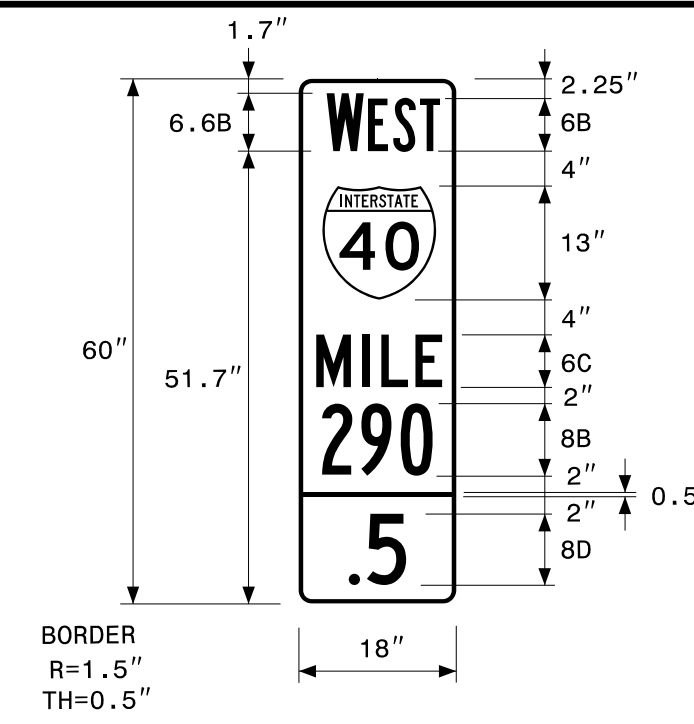
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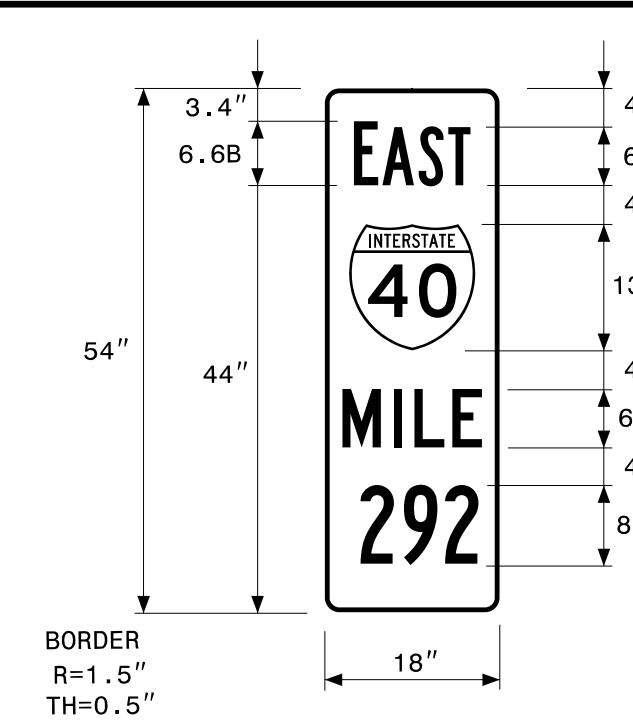
ONE 'U'-POST PER SIGN



ONE 'U'-POST PER SIGN



ONE 'U'-POST PER SIGN



ONE 'U'-POST PER SIGN

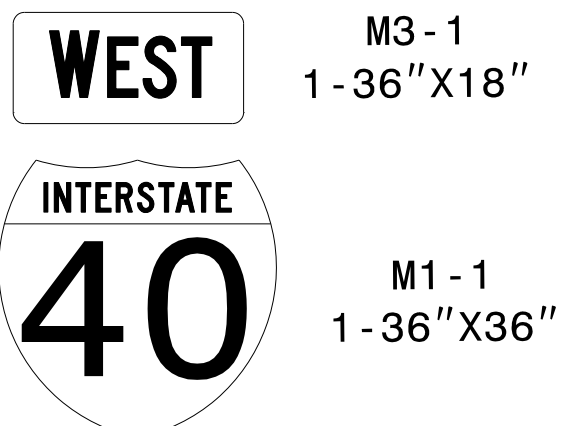
PROJECT REFERENCE NO. I-5943 SHEET NO. SIGN-4

APPROVED: *Ayman Alqudus*  
DATE: 11/10/2021

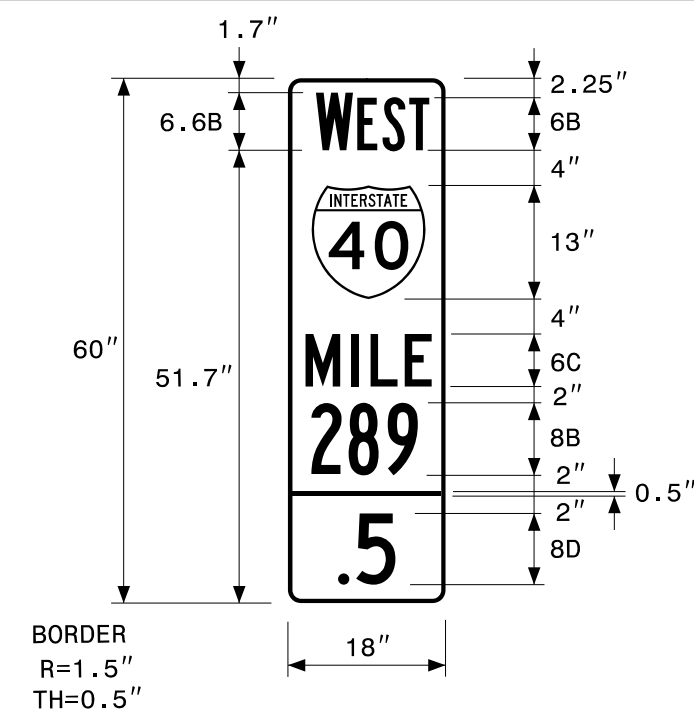
SEAL

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

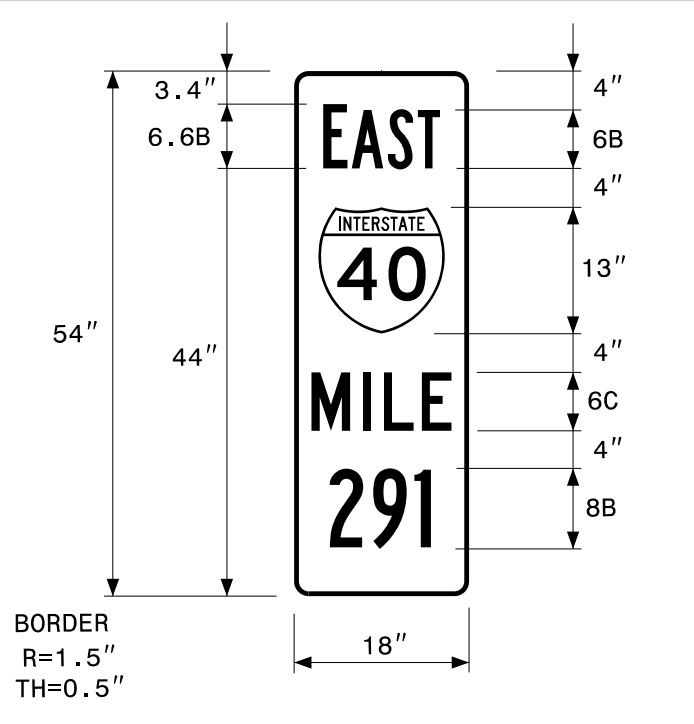
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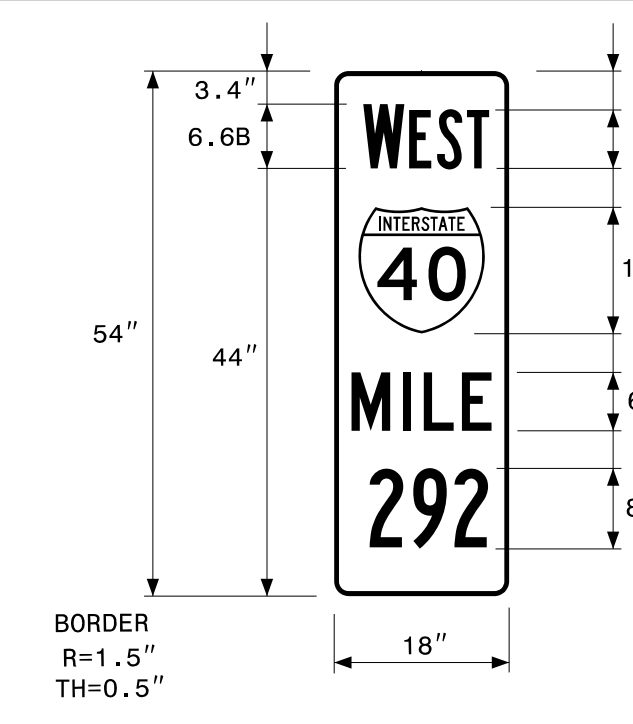
ONE 'U'-POST PER SIGN



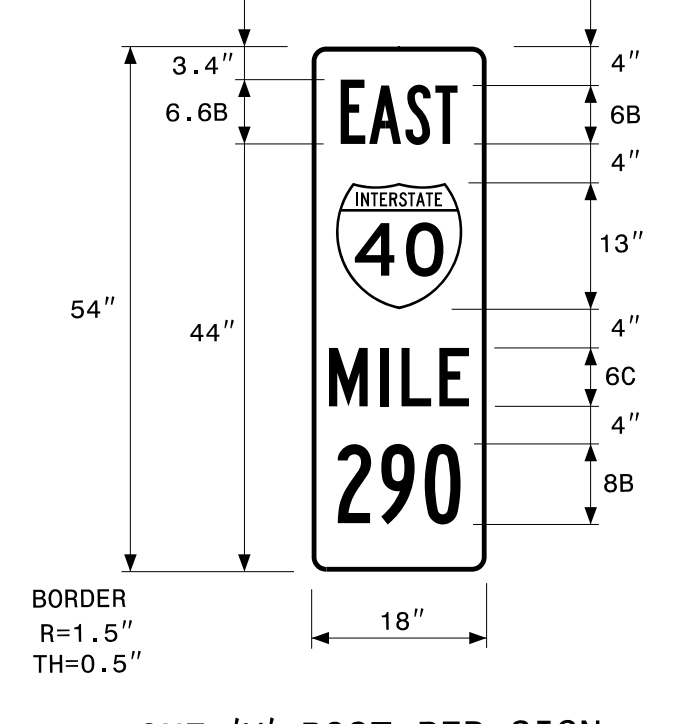
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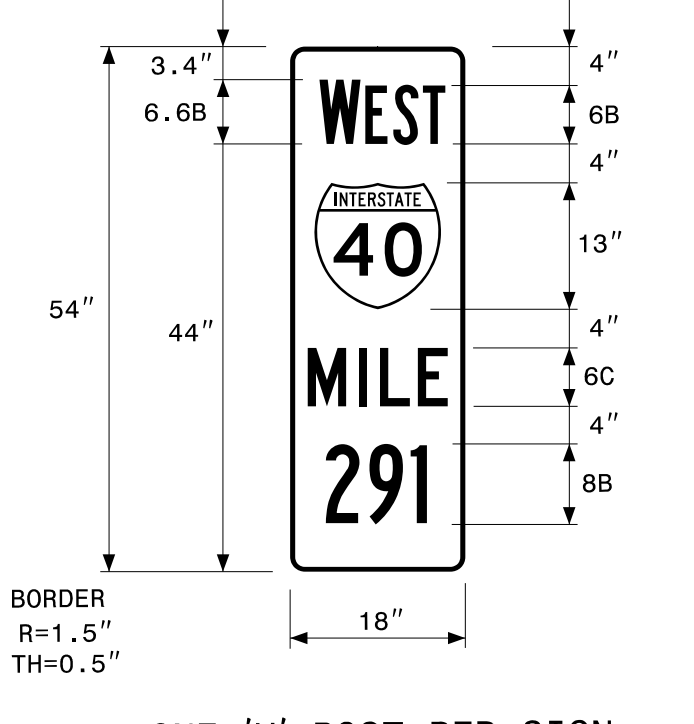
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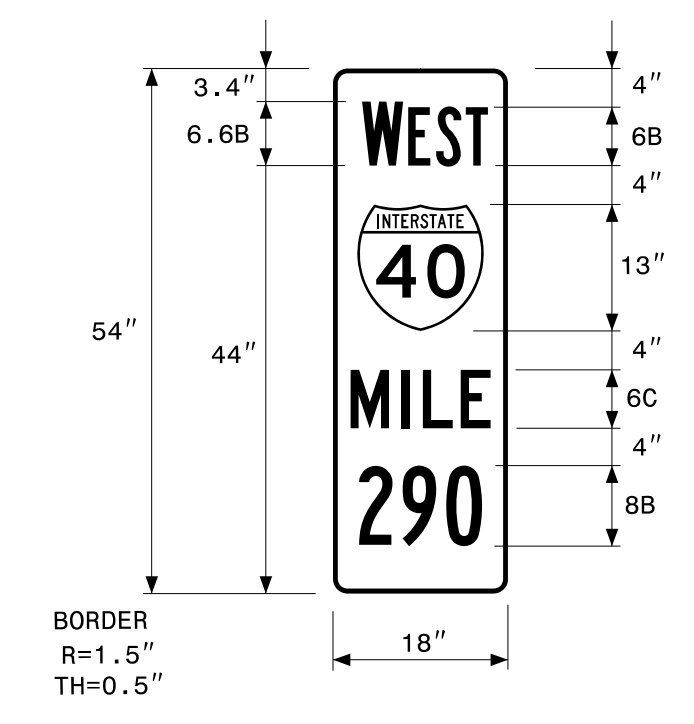
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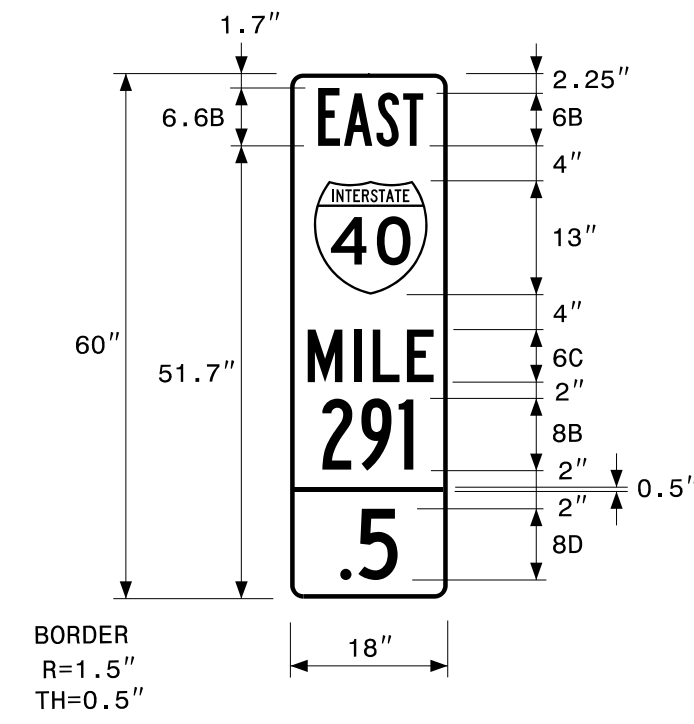
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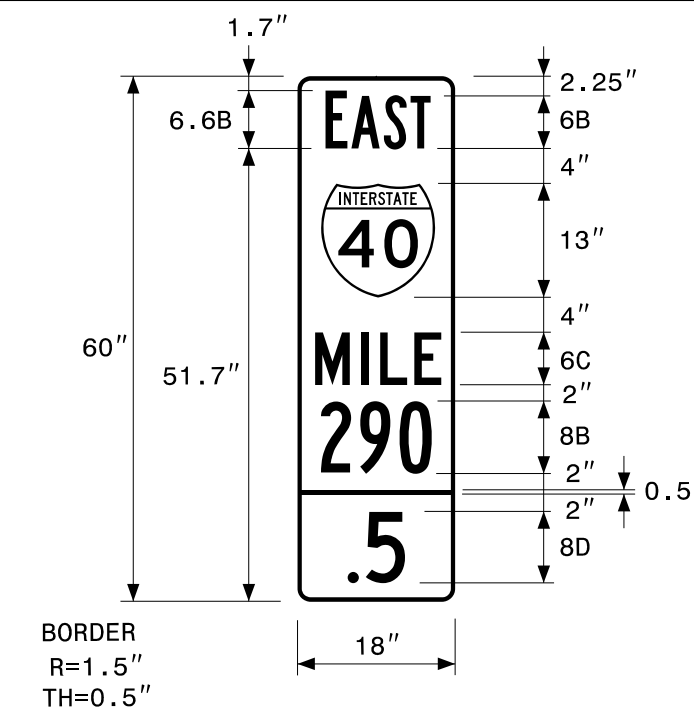
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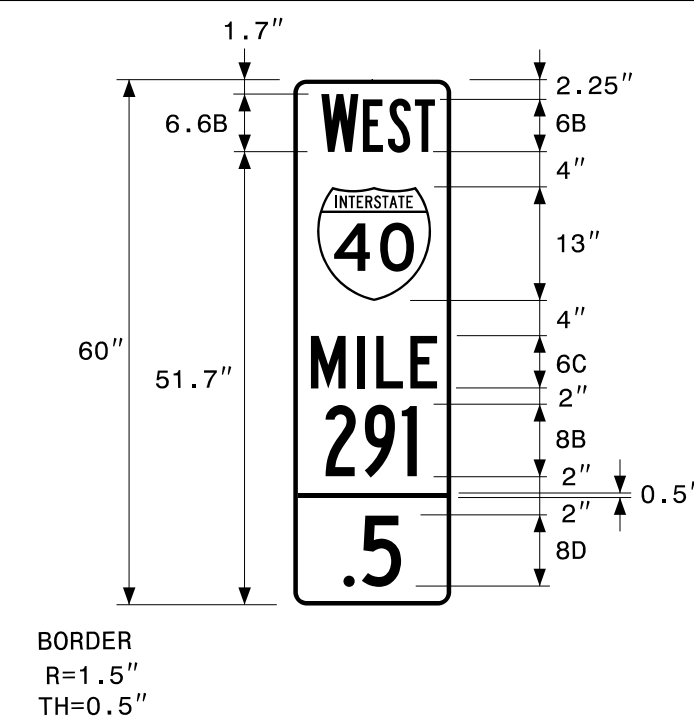
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ONE 'U'-POST PER SIGN



ONE 'U'-POST PER SIGN

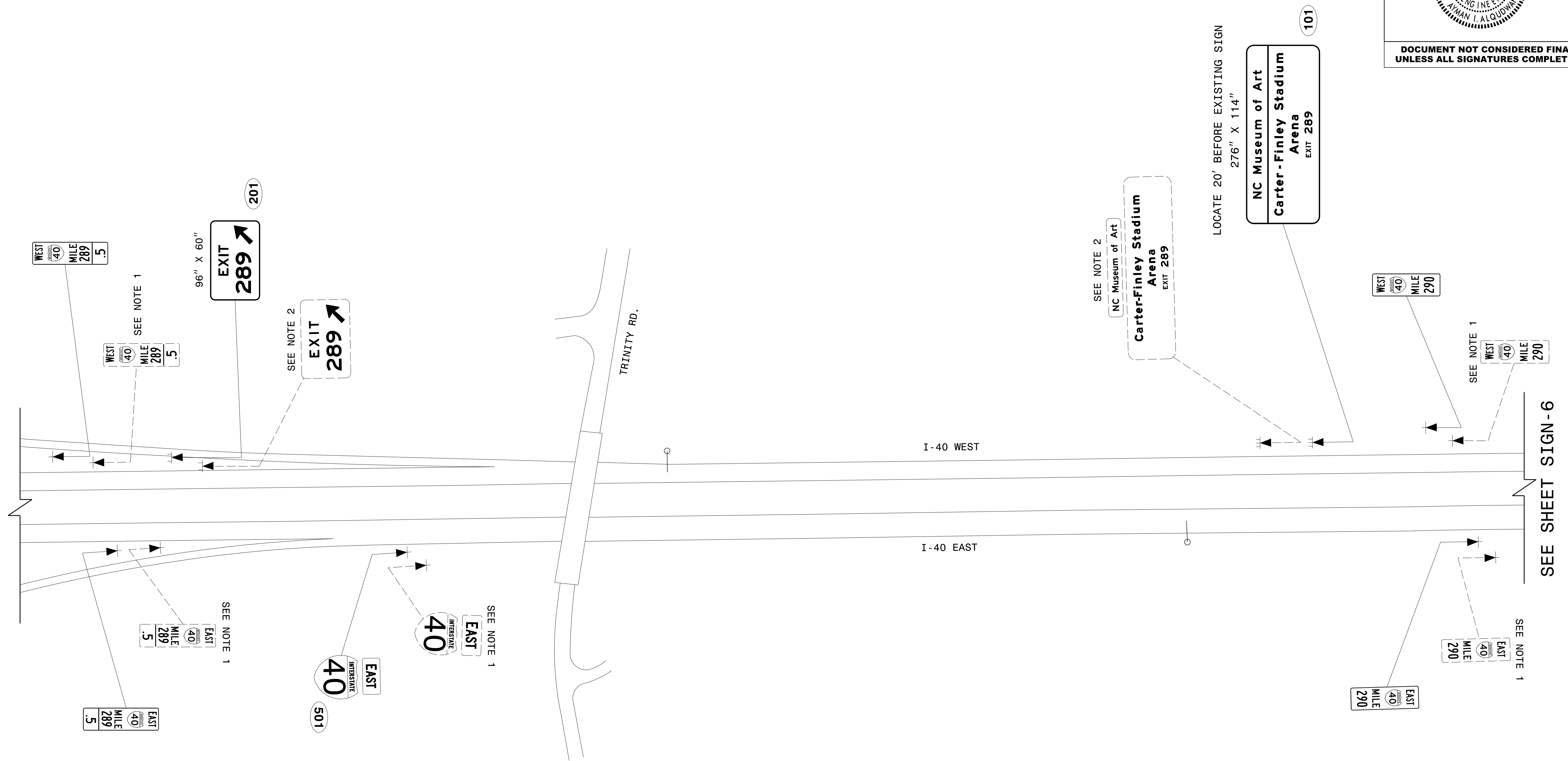
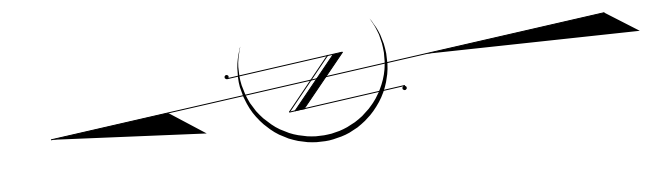


ONE 'U'-POST PER SIGN

TYPE "F" & MILE MARKERS




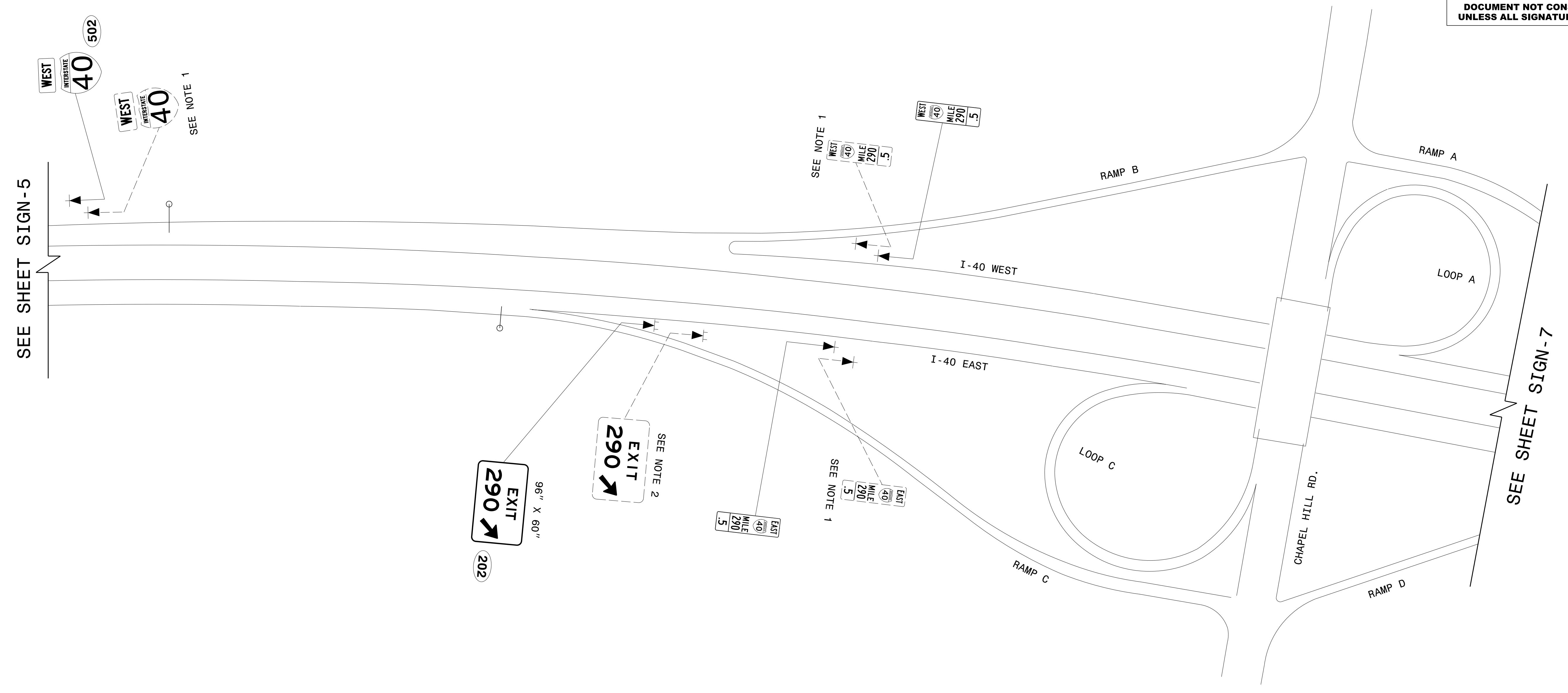
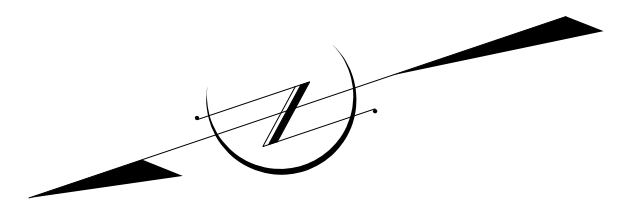
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|--|----------------------------|
| PROJECT REFERENCE NO.<br><b>I-5943</b>                                   | SHEET NO.<br><b>SIGN-5</b> |
| APPROVED: <i>Ayman Alqudus</i><br><small>FS3AC8CAF96472</small>          |                            |
| DATE: 11/10/2021   |                            |
| SEAL   |                            |
|  |                            |
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SEE SHEET SIGN-6

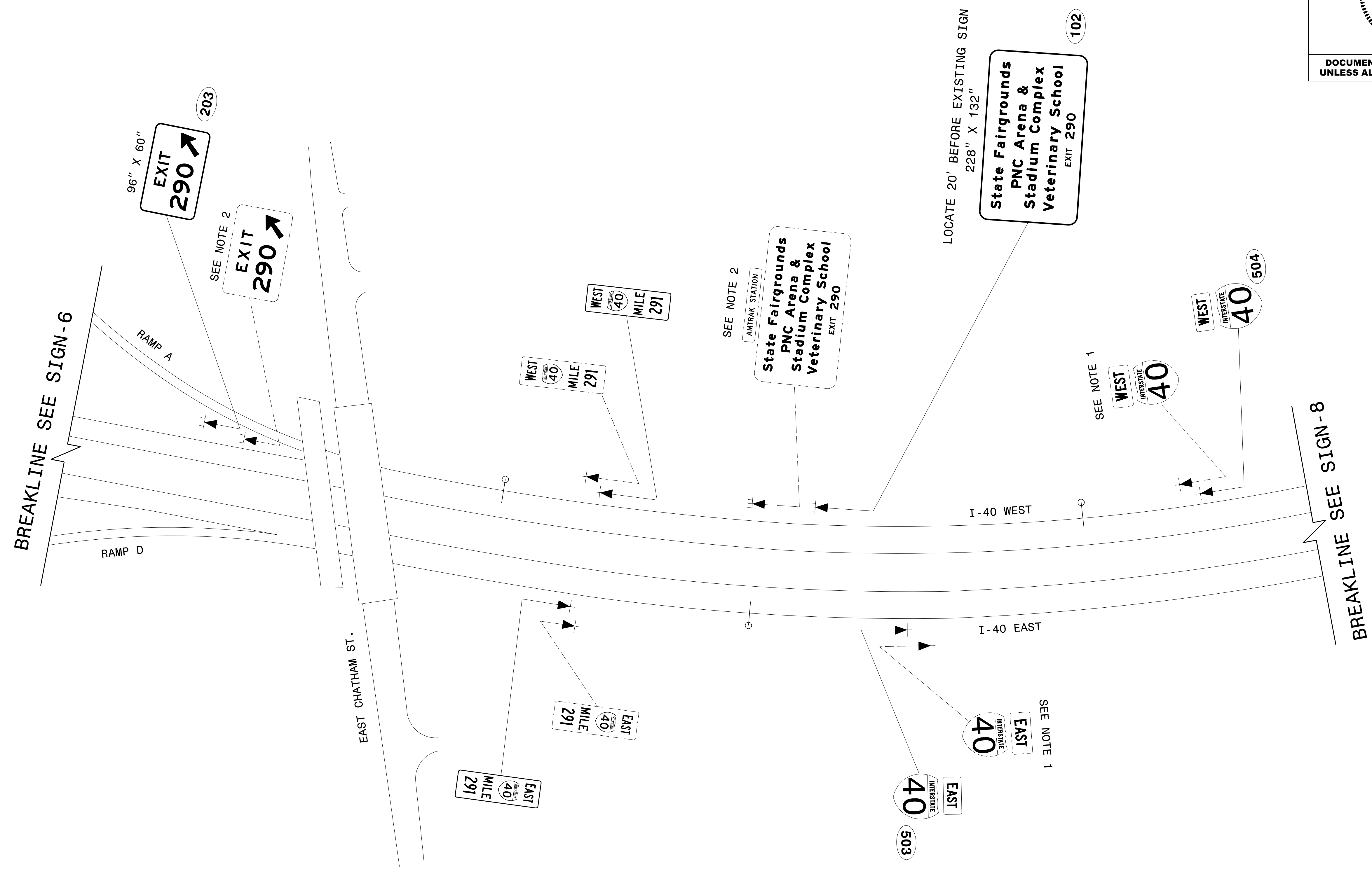
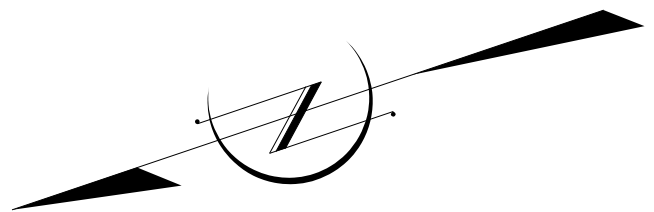
**SIGNING PLAN**

|   |                            |
|---|----------------------------|
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| APPROVED: <i>Ayman Alqudusah</i><br><small>REGISTERED PROFESSIONAL ENGINEER<br/>F33AC5CAF968472</small> |                            |
| DATE: 11/10/2021  |                            |
| SEAL  |                            |
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| <b>DOCUMENT NOT CONSIDERED FINAL<br/>UNLESS ALL SIGNATURES COMPLETED</b>                                |                            |

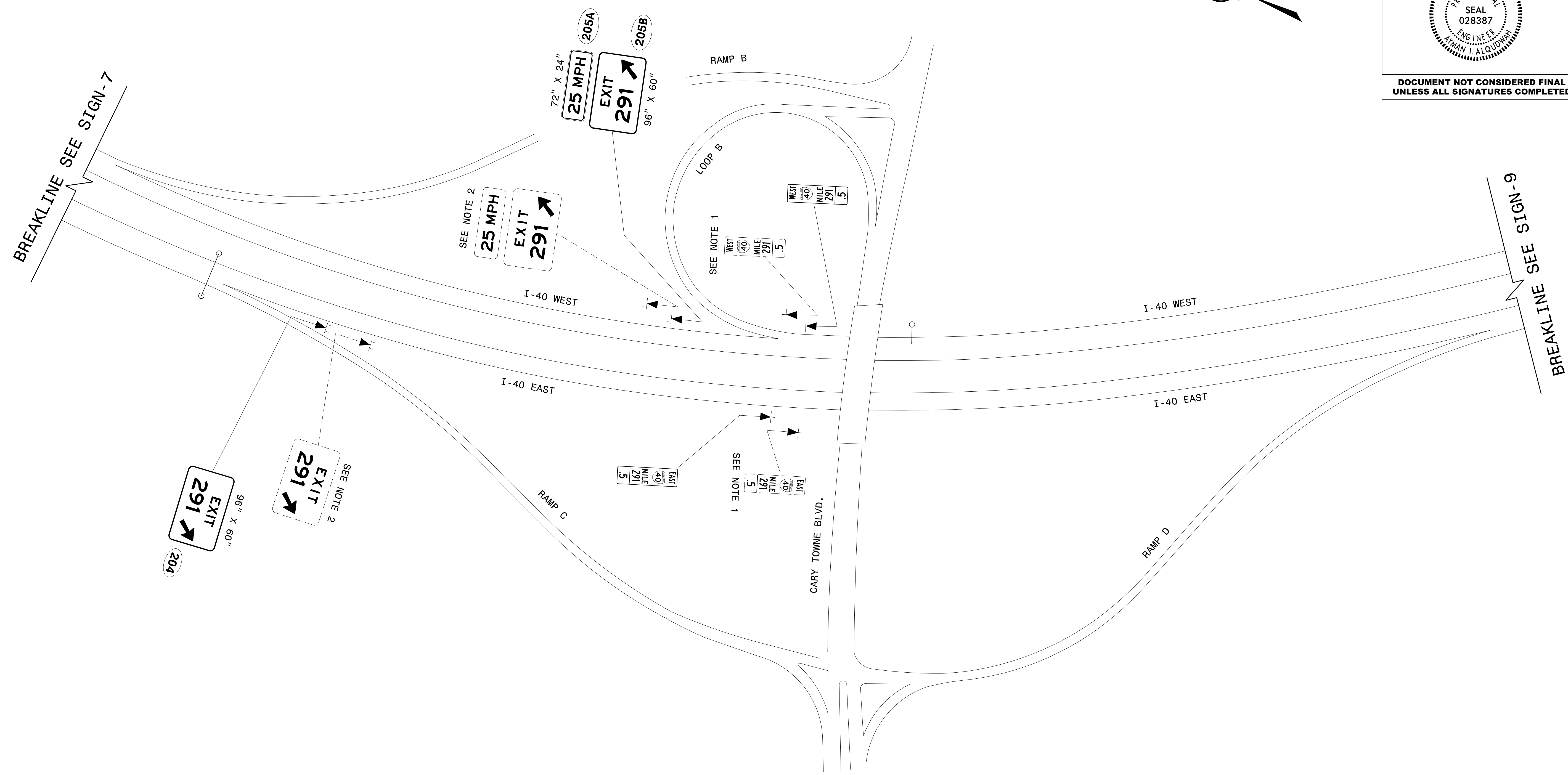
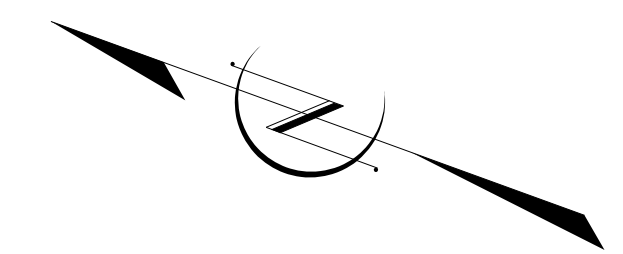


**SIGNING PLAN**

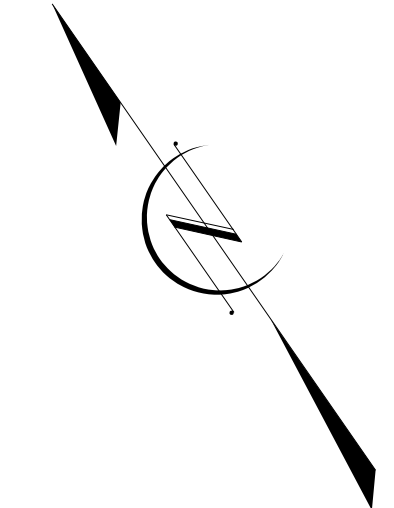




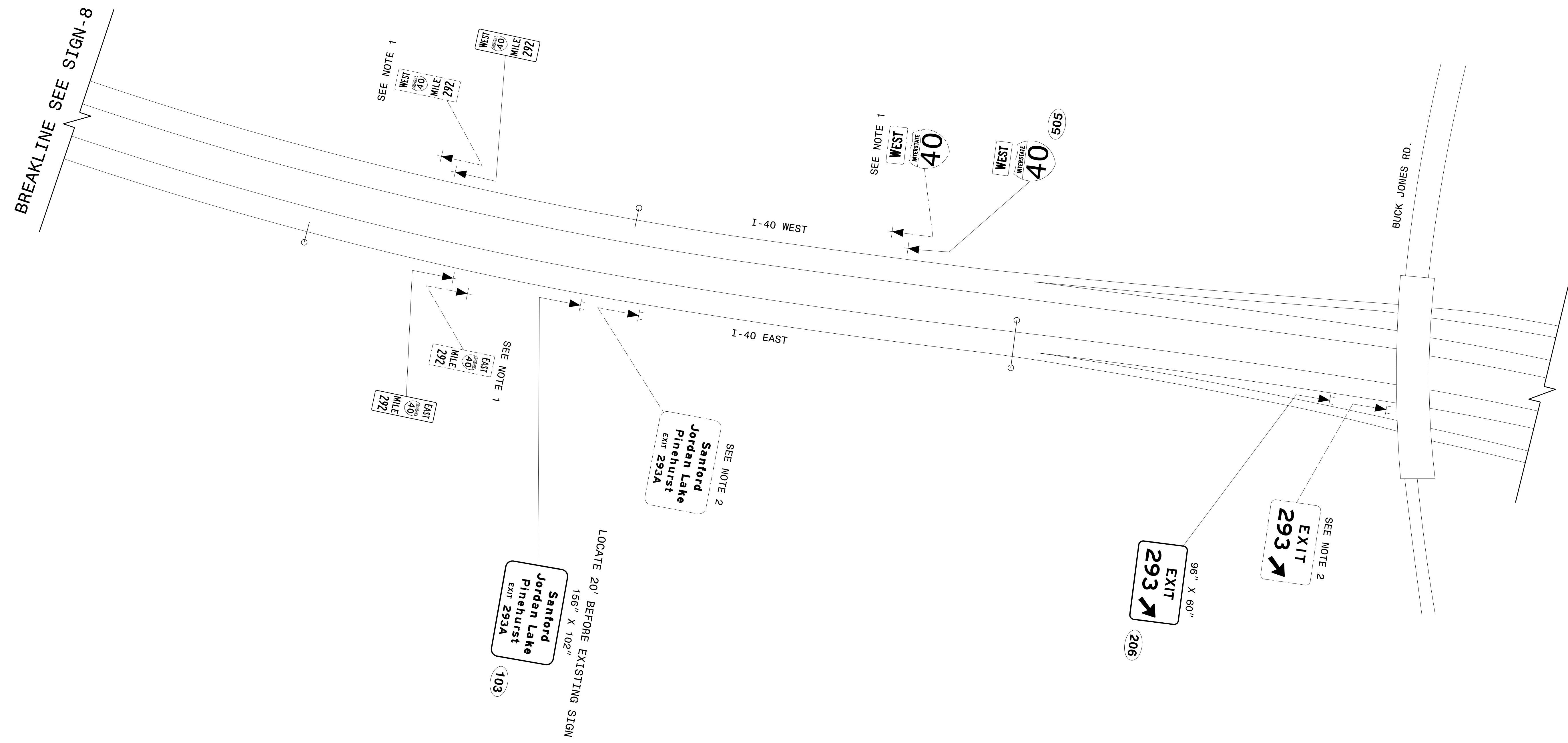
**SIGNING PLAN**



# SIGNING PLAN



BREAKLINE SEE SIGN-8



**SIGNING PLAN**