NOTE:
CENTER SIGN VERTICALLY ON CANTILEVER ARMS
NOTES:

1. THE DESIGN OF THIS STRUCTURE IS BASED ON THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS, CURRENT EDITION.


3. MAXIMUM SIGN AREA IS 240 SQUARE FEET FOR ONE SIGN. MINIMUM SIGN HEIGHT WITH ALUMINUM BEAM IS 6.5 FEET.

4. HOT-DIP GALVANIZE (HDG) ALL STEEL COMPONENTS PER ASTM A123 PRIOR TO BOLTED ASSEMBLY. HDG ALL FASTENER COMPONENTS PER ASTM A153. BLAST CLEAN BASE PLATES, STIFFENERS, AND ALL WELDMENTS PRIOR TO GALVANIZING.

5. PROVIDE 13/16" @ HOLES FOR 3/4"@ HIGH STRENGTH (HS) BOLTS FOR ALL CONNECTIONS UNLESS OTHERWISE STATED. PROVIDE HIGH STRENGTH BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH SUBSECTION 906.07 OF THE MDDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION. PROVIDE LOCK WASHERS THAT MEET ANSI B18.21.1.

6. TIGHTEN ALL HIGH STRENGTH BOLTS BY THE TURN OF NUT METHOD PER SUBSECTION 707.03.D OF THE MDDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

7. ALL WELDS MUST BE 100 PERCENT VISUAL TEST (VT) INSPECTED BY AN AWS CERTIFIED WELDING INSPECTOR (CWI). ALL FILLET WELDS (EXCEPT END CAP AND COLUMN CAP WELDS) MUST BE 25 PERCENT MAGNETIC PARTICLE TEST (MT) INSPECTED BY A TECHNICIAN QUALIFIED IN ACCORDANCE WITH AMERICAN SOCIETY OF NONDESTRUCTIVE TESTING (ASNT) LEVEL II. ALL COMPLETE JOINT PENETRATION (CJP) WELDS MUST BE 100 PERCENT ULTRASONIC TEST (UT) INSPECTED BY A TECHNICIAN QUALIFIED IN ACCORDANCE WITH ASNT LEVEL II.

8. SEE CURRENT MDDOT SIGN SUPPORT TYPICAL PLAN SIGN-340-SERIES FOR SIGN FOUNDATION.

9. SEE CURRENT MDDOT SIGN SUPPORT TYPICAL PLAN SIGN-700-SERIES FOR SIGN CONNECTION.

10. COLUMN SECTIONS MUST BE 10 INCH DIAMETER AT 93.45 POUNDS PER FOOT. ARM SECTIONS MUST BE 10 3/4 INCH DIAMETER AT 40.48 POUNDS PER FOOT.

11. THE FLANGE PLATES MUST BE WELDED TO ASSURE OBTAINING FULL CONTACT IN THE RELAXED POSITION PRIOR TO SNUGGING UP FLANGE BOLTS. THE FLANGE BOLTS MUST NOT BE TORQUED IN AN ATTEMPT TO CLOSE.

12. BASE PLATE (P) WARPAGE MUST NOT EXCEED 1/16 INCH PER FOOT.

13. BACKING BAR FOR OPTIONAL COLUMN SPlice MUST BE MINIMUM 1/4 INCH X 2 INCH PLATE OR STANDARD CHILL RING. BACKING BAR FOR COLUMN TO BASE PLATE MUST BE MINIMUM 1/4 INCH X 1 INCH PLATE OR STANDARD CHILL RING.
PLAN VIEW 38" BASE PLATE DETAIL

SECTION A-A
SEE SHEET 4 COLUMN BASE CUTTING DETAIL

NOT TO SCALE
MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN
SPECIAL DETAIL
SIGN-300-B
NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.
**Detail A**

1. **Column Wall**
2. **1/4" Weld and Grind Smooth**
3. **5/16"**

**Detail B**

1. **Wrap Weld Around Outside Edge**
2. **Stop 1/4" Short of Corner Clip**

**Column Base Cutting Detail**

1. **Cut Pipe Bottom to Provide for Column Raking**
2. **1/16" x 1 1/2" Cope**
3. **3/4" Stiffener R**

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**NOT TO SCALE**

**MICHIGAN DEPARTMENT OF TRANSPORTATION**

**SIGN-300-B**
SECTION C-C
(SEE SHEET 6 FOR ADDITIONAL FLANGE INFORMATION)

SECTION B-B

DETAIL C - FRONT

DETAIL C - TOP

DETAIL E

DETAIL F

ARM CONNECTION

*WRAP WELD AROUND OUTSIDE EDGE; STOP 1/4" SHORT OF CORNER CLIP

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION
BUREAU OF DEVELOPMENT STANDARD PLAN

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SECTION D-D

ARM CONNECTION

END CAP DETAIL
(USE AT THE END OF EACH ARM)

COLUMN CAP DETAIL

SECTION H-H

DETAIL OF WASHER PLACEMENT