**NOTES**

1. Vertical and horizontal clearance requirements shall be as shown on the Contract Plans.
2. No post splices permitted in lower third of height, nor closer than 3' - 0" to bottom chord, except as otherwise noted. No chord shop splices permitted in first two-thirds of the span, except as otherwise noted. A maximum of two splices are permitted in the post. For post or chord shop splice details, see **Standard Plan G-70.10**.
3. The back-up plates or rings for all full penetration welds shall be welded continuously to the joined pieces. This can be done by either a continuous fillet weld on the back side of the piece, or by a continuous weld in the root of the full penetration weld.
4. All bolt holes shall be drilled, and the diameter shall be 1/16" (in) larger than the nominal bolt diameter, except as noted.
5. The design and analysis of the structures has been done in accordance with AASHTO Standard Specification for Structural Supports for Highway Signs, Luminaires and Traffic Signals Dated 2001, using 90 MPH wind velocity and fatigue category - I.
6. Adjust post alignment in plane normal to roadway centerline by means of leveling nuts located below base plate to maintain upward slope in cantilever arm(s). Tighten anchor nuts above base plate in accordance with **Standard Specification Section 6-03.3(33)**.
7. Variable Message Signs (VMS) exceeding 700 lbs. and/or 200 sq. ft. shall not be installed on cantilever structure.
8. For electrical requirements, see **Standard Plan J-75.45**.
VERTICAL STRUTS AT SPAN END ONLY

TRUSS & SIGN

CAMBER EACH TRUSS 0.002 FT/FT FOR DOUBLE CANTILEVER (TYP.)

VERTICAL "FAR" TRUSS DIAGONAL (TYP.)

VERTICAL "NEAR" TRUSS DIAGONAL (TYP.)

PANEL LENGTH (4' - 2' MAX.) TO BE CONSTANT THROUGHOUT SPAN

Y /2 MIN.

Y = 5' - 0"

1' - 8"

H = 2' - 0"

L = 21' - 0" MAX.

1 1/4" (IN) CAPPED NIPPLE

BASE PLATE

HAND HOLE ON SIDE AWAY FROM TRAFFIC

BOTTOM OF LUMINAIRE BRACKET (WHEN SIGN LIGHTING IS SHOWN IN THE CONTRACT)

SCREEN - SEE DETAIL, SHEET 4

ELEVATION

DOUBLE CANTILEVER SIGN STRUCTURE

BASE ELEVATION

BASE PLATE

PERSPECTIVE

SHEET 2 OF 4 SHEETS

WASHINGTON
STATE DEPARTMENT OF TRANSPORTATION

APPROVED FOR PUBLICATION

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION

DRAWN BY: FERN LIDDELL

DATE: 1/30/2019 3:29 PM

STANDARD PLAN G-60.10-04

CANTILEVER SIGN STRUCTURE
(TRUSS TYPE)

Zahner, Richard
Jan 30 2019 3:29 PM

STATE DESIGN ENGINEER

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
POST BASE DETAILS

SCREEN DETAIL

SECTION B

BASE WELD DETAIL

DETAIL "G"

PIPE O.D.

BACK-UP RING

1/4" (IN) CONTINUOUS BACK-UP RING

SEAL WELD

TOP

1/2" (IN) DIAM. STEEL BOLT, 1 1/2" (IN) LONG, WITH (2) WASHERS AND (2) NUTS FOR GROUND

INSIDE EDGES SHALL BE ROUND AND SMOOTH ALL AROUND

2" (IN) DIAM. HOLES FOR ANCHOR BOLTS (TYP.)

HOLE IN POST BASE (HOLE DIAM. = POST I.D. - 2" (IN))

BOLT CIRCLE 2'-6" DIAM.

1 1/2" MAX.

PIPE WALL

100% UT PIPE O.D.

SCREEN DETAIL

BACK-UP RING

DETAIL "G"

100% UT SEE WELD DETAIL "G"

WELD SEAL

TOP OF BASE PLATE

TOP OF SCREEN

TOP OF FOUNDATION

FOUNDATION TOP OF

WRAP AROUND ROUND AND SMOOTH INSIDE EDGES SHALL BE

3/16" 2 1/2" 1"

SCREEN - SEE STANDARD PLAN J-75.40, SHEET 1 FOR DETAILS

PIPE WALL (HOLE DIAM. = POST I.D. - 2" (IN))

1/2" O.D. PIPE (t = 0.969) SPLICE WITH 18" (IN) O.D. PIPE (t = 0.750) SPLICE WITH 24" (IN) O.D. UPPER POST (SEE POST SELECTION TABLE)

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