OVERHEAD SIGN DIMENSIONS

<table>
<thead>
<tr>
<th>SIGN NO.</th>
<th>STATION</th>
<th>TYPE</th>
<th>SIGN NUMBER</th>
<th>COL. W</th>
<th>COL.</th>
<th>ROADWAY DESCRIPTION</th>
<th>SIGN SPACING</th>
<th>CONCRETE FORTES</th>
</tr>
</thead>
</table>

GENERAL NOTES:

- Structural carbon steel (ASTM A505 Grade 36) f_y = 36,000 psi.
- Reinforcing steel (Grade 60) f_y = 60,000 psi.
- Class B concrete f'c = 3,000 psi.
- Minimum clearance: vertical roadway clearance = 17'-6".
- Minimum clearance to reinforcing shall be 3", unless otherwise shown.
- Truss shall be all welded construction. All welding to be continuous unless otherwise shown.
- Qualification of welding operators will be required.
- Structural steel welding and welder qualification shall be performed in accordance with the A.W.S. (American Welding Society) code as amended by the Missouri Highway and Transportation Commission standard specifications and special provisions on structural steel construction.
- Aluminum welding and welder qualification shall be performed in accordance with the current edition of A.W.S. ST. 5 Structural welding code - Aluminum, except as amended by Section 903 of the Missouri Highway and Transportation Commission standard specifications for highway construction.
- All aluminum fillet welds shall be 3/16" unless otherwise shown.
- Coating: All columns shall be galvanized as per AASHTO M 111. All structural steel (except the columns) shall be coated with systems in accordance with Standard Specifications, Section 1081 and 903; color of the finished coat shall be gray.
- Payment for galvanizing, cleaning and coating shall be included in the contract unit price per sign truss. All the structural steel may be galvanized in lieu of coating. Portions of the steel may be galvanized with the approval of the Engineer.
- Permits must be obtained for all truck loads over legal length.

BUTTERFLY AND CANTILEVER OVERHEAD SIGN TRUSSES

STRUCTURAL STEEL

DATA SHEET

SEE STANDARD 903-12 D-32
Example Only – Cross Sections (Box Truss – Cantilever and Butterfly)
THIS SHEET PROVIDES THE INFORMATION NECESSARY TO COMPLETE THE DATA SHEET (D-32) AND SHALL NOT BE INCLUDED IN DESIGN PLANS.

EXAMPLES FROM FIGURE 8-03.9

SIGN NO. 14, STATION 188+00:
L1 = 30'-0", L2 = 0' < L1, OK.
COLUMN HEIGHT = 22'-0".
REQUIRED COLUMN TYPE (FROM TABLE) = VII.
MAXIMUM SIGN AREA PER FACE (FROM TABLE) = 400 FT².
SIGNS LOCATED ON ONE FACE, AREA = 118 FT² < 400, OK.
COLUMN HEIGHT = 19'-7".
SIGN NO. 16, STATION 200+00:
L1 = 30'-0", L2 = 0' < L1, OK.
COLUMN HEIGHT = 19'-7".
REQUIRED COLUMN TYPE (FROM TABLE) = VII.
MAXIMUM SIGN AREA PER FACE (FROM TABLE) = 400 FT².
SIGNS LOCATED ON ONE FACE, AREA = 118 FT² < 400, OK.
COLUMN HEIGHT = 16'-11".
SIGN NO. 18, STATION 234+50:
L1 = 15'-0", L2 = 15'-0" < L1, OK.
COLUMN HEIGHT = 16'-11".
REQUIRED COLUMN TYPE (FROM TABLE) = V.
MAXIMUM SIGN AREA PER FACE (FROM TABLE) = 200 FT².
SIGNS LOCATED ON BOTH FACES, BOTH ARMS:
-FRONT FACE AREA = 204 FT², PER ARM = 102 FT² < 200, OK.
-BACK FACE AREA = 172 FT², PER ARM = 86 FT² < 200, OK.