GENERAL NOTES:

1. Application of the mounting detailed on Sheet 1 of 3 is limited to a dynamic message sign (DMS) attachment that is not in conflict with the truss connection bolts at the point(s) of attachment. The overhead sign structure must have adequate capacity to support the DMS. A determination of adequacy shall be made prior to attaching the DMS supports to the truss.

2. Design conforms to 1994 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals and Interim Revisions thereto. The design sustained wind velocity is 100 mph with a gust factor of 1.3, connections are designed for a DMS weight of 3600 lbs and a design Effective Projected Area (EPA) of 441 ft², with the EPA based on a 30.5 ft nominal width of 50 ft, 2 ft nominal depth of 8.25 ft, and nominal height of 17 ft. The EPA includes drag coefficients of 1.7 applied to signs and 1.5 applied to flashing beacon(s). A horizontal eccentricity of 1.2 ft from the face of the truss to the center of gravity of the DMS for attachment of DMS is assumed, an even number of Z brackets, spaced at 5 ft max., is assumed to transfer forces through the connection.

3. All structural steel shall conform to ASTM A36, A572 or HSS or A500. Connection bolts shall conform to A525 or A490. Each connection bolt shall be provided with 1 heavy hex nut, 2 flat washers, 1 lock washer. J bolts and washer plate bolts shall be Type 304 stainless steel, with bolt minimum yield strength of 50 ksi and an elongation of 16 percent in 2 inches. All parts except stainless steel shall be galvanized.

4. Contractor shall verify applicable field dimensions before fabrication.


6. Connections are designed for a DMS weight of 3600 lbs and a design Effective Projected Area (EPA) of 441 ft², with the EPA based on a 30.5 ft nominal width of 50 ft, 2 ft nominal depth of 8.25 ft, and nominal height of 17 ft. The EPA includes drag coefficients of 1.7 applied to signs and 1.5 applied to flashing beacon(s). A horizontal eccentricity of 1.2 ft from the face of the truss to the center of gravity of the DMS for attachment of DMS is assumed, an even number of Z brackets, spaced at 5 ft max., is assumed to transfer forces through the connection.

7. All structural steel shall conform to ASTM A36, A572 or HSS or A500. Connection bolts shall conform to A525 or A490. Each connection bolt shall be provided with 1 heavy hex nut, 2 flat washers, 1 lock washer. J bolts and washer plate bolts shall be Type 304 stainless steel, with bolt minimum yield strength of 50 ksi and an elongation of 16 percent in 2 inches. All parts except stainless steel shall be galvanized.

8. Contractor shall verify applicable field dimensions before fabrication.

9. Connections are designed for a DMS weight of 3600 lbs and a design Effective Projected Area (EPA) of 441 ft², with the EPA based on a 30.5 ft nominal width of 50 ft, 2 ft nominal depth of 8.25 ft, and nominal height of 17 ft. The EPA includes drag coefficients of 1.7 applied to signs and 1.5 applied to flashing beacon(s). A horizontal eccentricity of 1.2 ft from the face of the truss to the center of gravity of the DMS for attachment of DMS is assumed, an even number of Z brackets, spaced at 5 ft max., is assumed to transfer forces through the connection.

10. All structural steel shall conform to ASTM A36, A572 or HSS or A500. Connection bolts shall conform to A525 or A490. Each connection bolt shall be provided with 1 heavy hex nut, 2 flat washers, 1 lock washer. J bolts and washer plate bolts shall be Type 304 stainless steel, with bolt minimum yield strength of 50 ksi and an elongation of 16 percent in 2 inches. All parts except stainless steel shall be galvanized.

11. Contractor shall verify applicable field dimensions before fabrication.

12. Connections are designed for a DMS weight of 3600 lbs and a design Effective Projected Area (EPA) of 441 ft², with the EPA based on a 30.5 ft nominal width of 50 ft, 2 ft nominal depth of 8.25 ft, and nominal height of 17 ft. The EPA includes drag coefficients of 1.7 applied to signs and 1.5 applied to flashing beacon(s). A horizontal eccentricity of 1.2 ft from the face of the truss to the center of gravity of the DMS for attachment of DMS is assumed, an even number of Z brackets, spaced at 5 ft max., is assumed to transfer forces through the connection.

13. All structural steel shall conform to ASTM A36, A572 or HSS or A500. Connection bolts shall conform to A525 or A490. Each connection bolt shall be provided with 1 heavy hex nut, 2 flat washers, 1 lock washer. J bolts and washer plate bolts shall be Type 304 stainless steel, with bolt minimum yield strength of 50 ksi and an elongation of 16 percent in 2 inches. All parts except stainless steel shall be galvanized.

14. Contractor shall verify applicable field dimensions before fabrication.

15. Connections are designed for a DMS weight of 3600 lbs and a design Effective Projected Area (EPA) of 441 ft², with the EPA based on a 30.5 ft nominal width of 50 ft, 2 ft nominal depth of 8.25 ft, and nominal height of 17 ft. The EPA includes drag coefficients of 1.7 applied to signs and 1.5 applied to flashing beacon(s). A horizontal eccentricity of 1.2 ft from the face of the truss to the center of gravity of the DMS for attachment of DMS is assumed, an even number of Z brackets, spaced at 5 ft max., is assumed to transfer forces through the connection.

16. All structural steel shall conform to ASTM A36, A572 or HSS or A500. Connection bolts shall conform to A525 or A490. Each connection bolt shall be provided with 1 heavy hex nut, 2 flat washers, 1 lock washer. J bolts and washer plate bolts shall be Type 304 stainless steel, with bolt minimum yield strength of 50 ksi and an elongation of 16 percent in 2 inches. All parts except stainless steel shall be galvanized.

17. Contractor shall verify applicable field dimensions before fabrication.

18. Connections are designed for a DMS weight of 3600 lbs and a design Effective Projected Area (EPA) of 441 ft², with the EPA based on a 30.5 ft nominal width of 50 ft, 2 ft nominal depth of 8.25 ft, and nominal height of 17 ft. The EPA includes drag coefficients of 1.7 applied to signs and 1.5 applied to flashing beacon(s). A horizontal eccentricity of 1.2 ft from the face of the truss to the center of gravity of the DMS for attachment of DMS is assumed, an even number of Z brackets, spaced at 5 ft max., is assumed to transfer forces through the connection.

19. All structural steel shall conform to ASTM A36, A572 or HSS or A500. Connection bolts shall conform to A525 or A490. Each connection bolt shall be provided with 1 heavy hex nut, 2 flat washers, 1 lock washer. J bolts and washer plate bolts shall be Type 304 stainless steel, with bolt minimum yield strength of 50 ksi and an elongation of 16 percent in 2 inches. All parts except stainless steel shall be galvanized.

20. Contractor shall verify applicable field dimensions before fabrication.
MOUNTING ANGLE 3 x 2 x 3/8

PLAN VIEW

MOUNTING ANGLE 3 x 2 x 3/8

SECTION C-C

GENERAL NOTES:
1. Application of the built-up designed on Sheet 2 and 3 of 3 is limited to the dynamic message sign (DMS) attachment which is in conflict with the truss connection bolts or the portals of the truss. The design supersedes the design of the truss. The DMS shall be designed to accommodate the DMS attachments. The design shall be reviewed by the Texas Department of Transportation (TxDOT). The design shall be reviewed by the TxDOT. The design shall be reviewed by the TxDOT.

2. The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatever. TxDOT assumes no responsibility for the conversion of this standard.

3. All structural steel shall conform to ASTM A36, A572 Gr 50 or A588. Connection bolts shall conform to ASTM A325 or A449. Each connection bolt shall be provided with 1 heavy hex nut, 2 flat washers and 2 lock washers. Hollow washers and 2 lock washers. Hollow washers are provided for proper bearing and mounting angle length, and the connection through this channel includes the dynamic message sign (DMS) attachment which is in conflict with the truss connection bolts or the portals of the truss. The design shall be reviewed by the Texas Department of Transportation (TxDOT). The design shall be reviewed by the TxDOT. The design shall be reviewed by the TxDOT.

4. Contractor shall verify applicable field dimensions before fabrication. Various lengths of bearing and mounting angle are provided for mounting. Connection bolts shall be provided with 1 heavy hex nut, 2 flat washers and 2 lock washers. Hollow washers and 2 lock washers. Hollow washers are provided for proper bearing and mounting angle length, and the connection through this channel includes the dynamic message sign (DMS) attachment which is in conflict with the truss connection bolts or the portals of the truss. The design shall be reviewed by the Texas Department of Transportation (TxDOT). The design shall be reviewed by the TxDOT. The design shall be reviewed by the TxDOT.