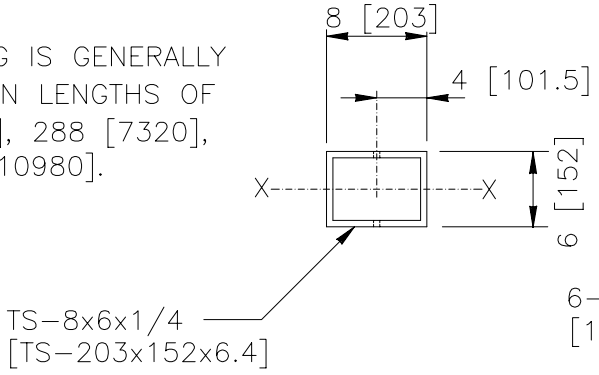
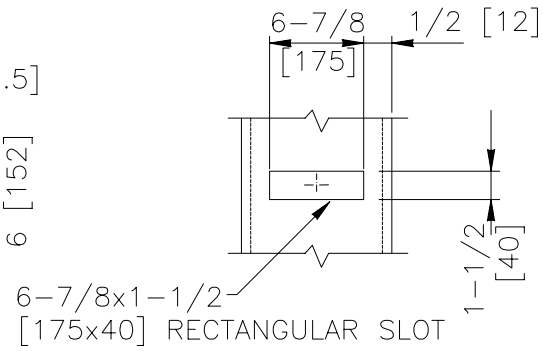
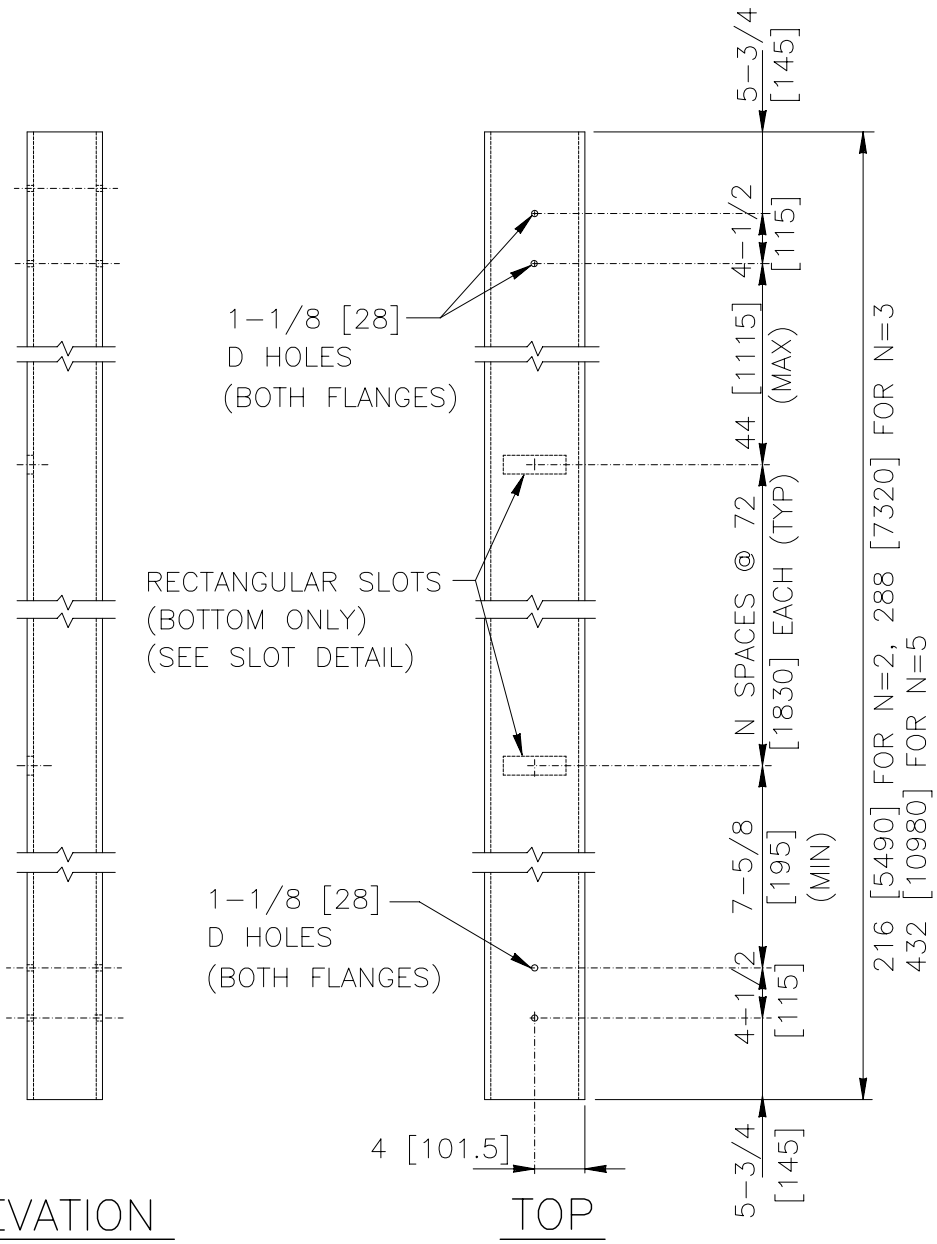
NOTE:

BOX TUBING IS GENERALLY AVAILABLE IN LENGTHS OF 216 [5490], 288 [7320], AND 432 [10980].





SLOT DETAIL



ELEVATION

TOP

1994

BOX BEAM MEDIAN BARRIER RAIL

RBM11

SHEET NO.	DATE:
1 of 2	8/03/2005

SPECIFICATIONS

Box beam rail elements shall be tubes manufactured from either ASTM A 500 Grade B cold-rolled tubing, ASTM A 501 hot-rolled tubing or automotive Rollover Protective Steel (ROPS). ASTM A 500 Grade B tubing is generally the most easily and economically obtained section, but there have been reported problems with the steel fracturing at low temperatures. When using ASTM A 500 Grade B steel, it is highly recommended that the Drop-Weight-Tear test (ASTM E 436) be performed to ensure that each lot of material has adequate fracture toughness, especially in regions that experience prolonged cold weather. ASTM A 501 tubing and ROPS tubing can generally be used without the need for the Drop-Weight-Tear test.

The beams should be hot-dip zinc coated according to AASHTO M 111 (ASTM A 123).

Inertial properties shown below are based on the gross cross-section dimensions without a reduction for splice and bolt holes.

Designator	Area in^2 [10^3 mm^2]	I_x in^4 [10^6 mm^4]	I_y in^4 [10^6 mm^4]	S_x in^3 [10^3 mm^3]	S_y in^3 [10^3 mm^3]
RBM11	4.96 [3.2]	29.79 [12.4]	46.61 [19.4]	9.95[163]	11.66 [191]

Dimensional tolerances not shown or implied are intended to be those consistent with the proper functioning of the part, including its appearance and accepted manufacturing practices.

INTENDED USE

This component is the main rail element in the SGM03 box beam median barrier. The rail is attached to the PSE07 post using the FPP04 rail support plate.

BOX-BEAM MEDIAN BARRIER RAIL

RBM11

SHEET NO.	DATE
2 of 2	7/18/2005