

CONCRETE BARRIER DESIGN

The current Washington State precast concrete barrier (see Figure 2) has a New Jersey shaped face and a pin and loop connection. The barrier segments are 610 mm (24 inches) wide at the base, 810 mm (32 inches) tall, and 3.8 m (12.5 feet) long. The width at the top of the barrier is 150 mm (6 inches). The connection between the segments consists of 2 sets of 2 loops. A connecting pin is passed through the loops to join adjacent barrier segments and transfer the tensile and moment loads from one segment to another. The connection is designed to have “nested” loops, where the loops from one barrier segment are positioned between the loops of the connecting segment. The loops are made of 16 mm (5/8 inch)

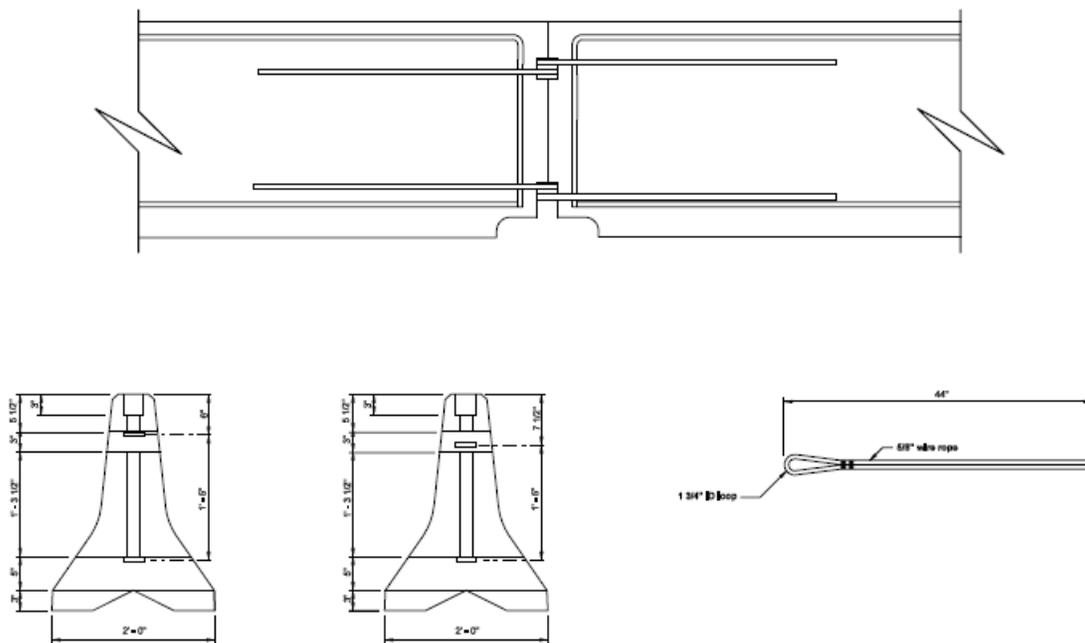


FIGURE 2 Current WSDOT precast barrier details.