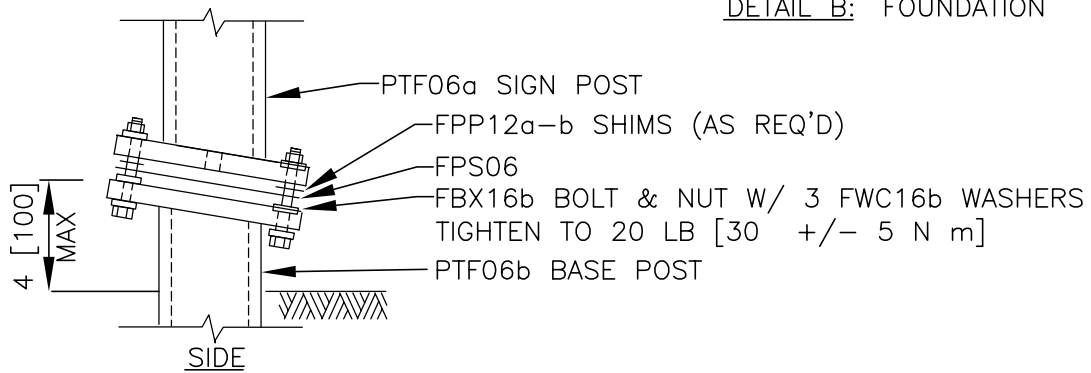


DETAIL B: FOUNDATION



DETAIL A: SLIPBASE ASSEMBLY

INCLINED SLIPBASE W/ TUBULAR POST

SSS07a

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INTENDED USE

The inclined rectangular slipbase with rectangular tube sign support system is a single-post (SSS07a) sign support system. Only the PTF06a-b rectangular tube should be used because smaller tubes may bend before the slipbase activates and larger tubes may be too massive. In no case, however, should the total mass of all the sign posts above the slip-plane and below the hinge be greater than 270 kg. The system has been successfully crash tested with the base embedded in concrete. The system is considered to meet the requirements of the 1985 AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals*.

COMPONENTS

The inclined rectangular slipbase with rectangular steel tube sign support system consists of a steel tube sign post (PTF06a), a steel tube base post (PTFOGb), a keeper plate (FPS06) and FBX16b high-strength bolts and nuts with three FWC16b hardened washers. One washer is located under each bolt head, another is located under each nut and another is located between the lower slipbase plate and the keeper plate. Shims (FPP12a-b) may be added between the keeper plate and upper slipbase as needed to level the sign post. The slipbase bolts shall be tightened to a torque of 30 N-m \pm 5 N-m.

The base-post assembly (PTF06b) shall be embedded in a 20 MPa concrete with cement conforming to AASHTO M85 (ASTM C150) Type II. The concrete foundation shall be reinforced with 8 vertical bars of Grade 400 MPa bars conforming to either AASHTO M284M (ASTM D3936D) or AASHTO M31M (ASTM A615M). The spiral reinforcing shall conform to either ASTM A306 or AASHTO M32 (ASTM A82) and shall have 2 flat turns at the top and bottom and a 150-mm pitch.

REFERENCES

L. A. Staron, "Breakaway Sign Supports," Geometric and Roadside Design Acceptance Letter SS-36, Federal Highway Administration, September 3, 1993.

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