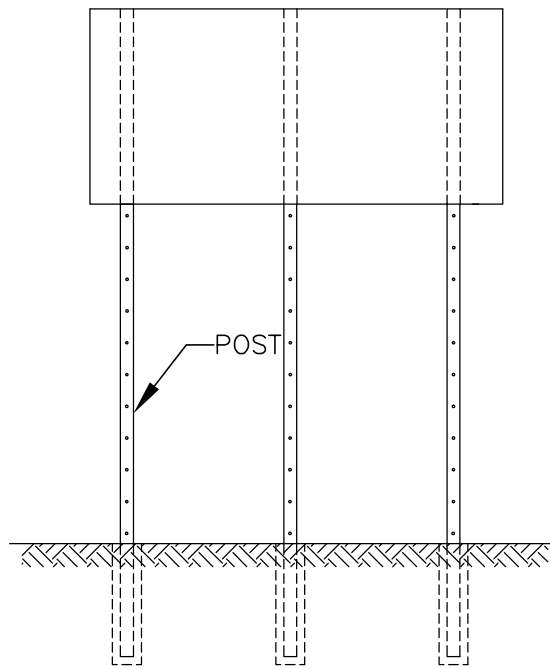
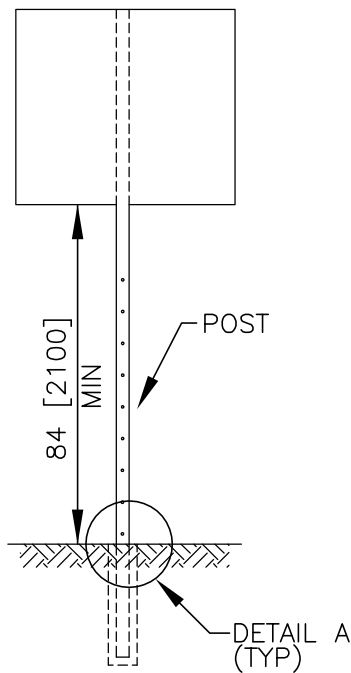


SSF02b



SSF02c



SSF02a

SYSTEM	LARGEST POST	LARGEST BASE	LRGST OPTIONAL REINFORCING SLEEVE	CORNER BOLT
SSF02a	PTP23b	PTP24b	--	FBH06
	PTP43b	PTP44b	--	FBH06
SSF02b	PTP22b	PTP23b	PTP24b	FBH06
	PTP42b	PTP43b	PTP44b	FBH06
SSF02c	PTP21b	PTP22b	PTP23b	FBH05
	PTP41b	PTP42b	PTP43b	FBH05

NOTE: POSTS SHALL BE EMBEDDED AT LEAST  
36 [860] INTO STRONG SOIL OR 60 [1400] INTO WEAK SOIL

## PERFORATED STEEL TUBE IN ANCHOR BASE

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### INTENDED USE

The perforated steel tube in a steel tube anchor base small sign support system can be used as a single-post (SSF02a), double-post (SSF02b), or triple-post (SSF02c) sign support system where all the posts are within a 2100 mm span. The system is considered to meet the requirements of the 1985 AASHTO *Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals* and may be used in either strong or weak soil. The largest mass post available for the three systems are: 4.1 kg/m (PTP23b or PTP43b) for the single-post system (SSF02a), 3.6 kg/m (PTP22b or PTP42b) for the two-post system (SSF02b) and 3.1 kg/m (PTP21b or PTP41b) for the three-post system (SSF02c).

### COMPONENTS

The perforated steel tube in a perforated steel tube anchor base small sign support system is a yielding breakaway system consisting of a tubular post (PTP12a, PTP20a-PTP23b or PTP40a-43b), an anchor base (PTP21b-PTP24b or PTP41b-44b), fasteners and an optional reinforcing sleeve (PTP22b-PTP24b or PTP42b-44b). The tubular post shall have either knock-outs or holes on all four tube faces. The post telescopes inside a base post which is the next higher tube size (e.g., a PTP20b post telescopes into a PTP21b anchor base). The anchor base can also be telescoped into a reinforcing sleeve made of a 450 mm long section of the next higher tube (e.g., a PTP20b post, a PTP21b anchor base and a PTP22b reinforcing sleeve). When used in a strong soil the base post shall be embedded at least 860 mm and when used in a weak soil the base post shall be embedded at least 1400 mm in the soil. The anchor base is driven into the soil until approximately 25 mm of the anchor base protrudes above the ground surface. The anchor base may also be set in soilcrete or concrete if desired. The square tube sign post is then placed inside the anchor sleeve such that the bottom of the post is approximately 200 mm below the ground and the bottom of the sign panel is at least 2100 mm above the ground. The post is fastened to the anchor sleeve using the appropriate corner bolt and nut (FBH05-07).

### REFERENCES

L. A. Staron, "Breakaway Sign Supports," Geometric and Roadside Design Acceptance Letter SS-03, Federal Highway Administration, October 3, 1986.

L. A. Staron, "Breakaway Sign Supports," Geometric and Roadside Design Acceptance Letter SS-11, Federal Highway Administration, May 18, 1989.

L. A. Staron, "Breakaway Sign Supports," Geometric and Roadside Design Acceptance Letter SS-19, Federal Highway Administration, July 31, 1990.

L. A. Staron, "Breakaway Sign Supports," Geometric and Roadside Design Acceptance Letter SS-26, Federal Highway Administration, February 11, 1992.

L. A. Staron, "Breakaway Sign Supports," Geometric and Roadside Design Acceptance Letter

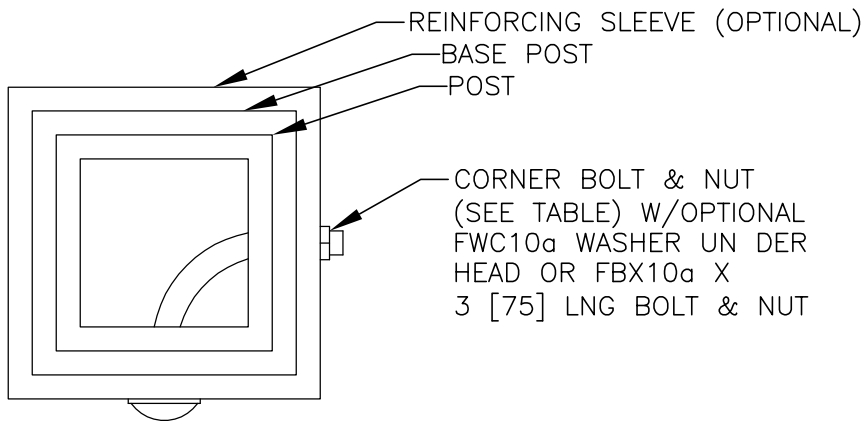
## PERFORATED STEEL TUBE IN ANCHOR BASE

**SSF02a-c**

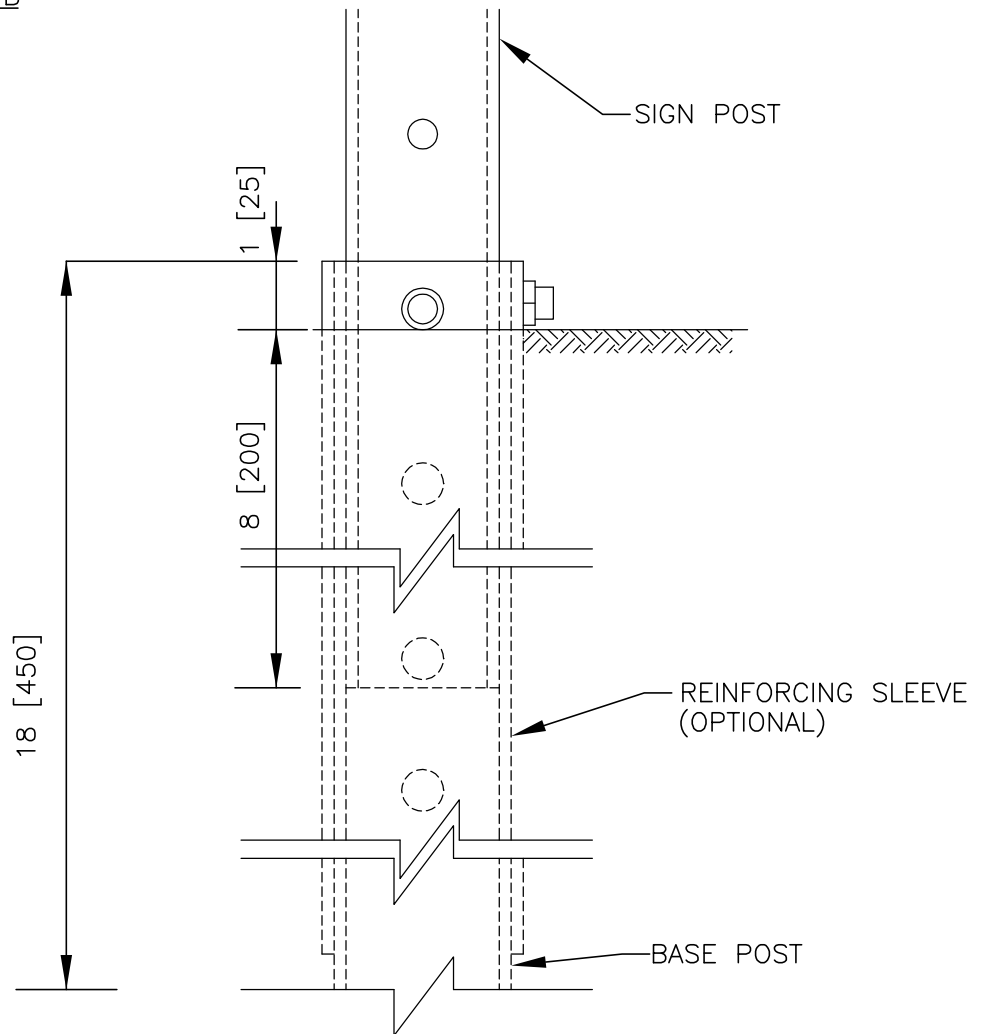
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SECTION B-B



DETAIL A: ANCHOR BASE

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