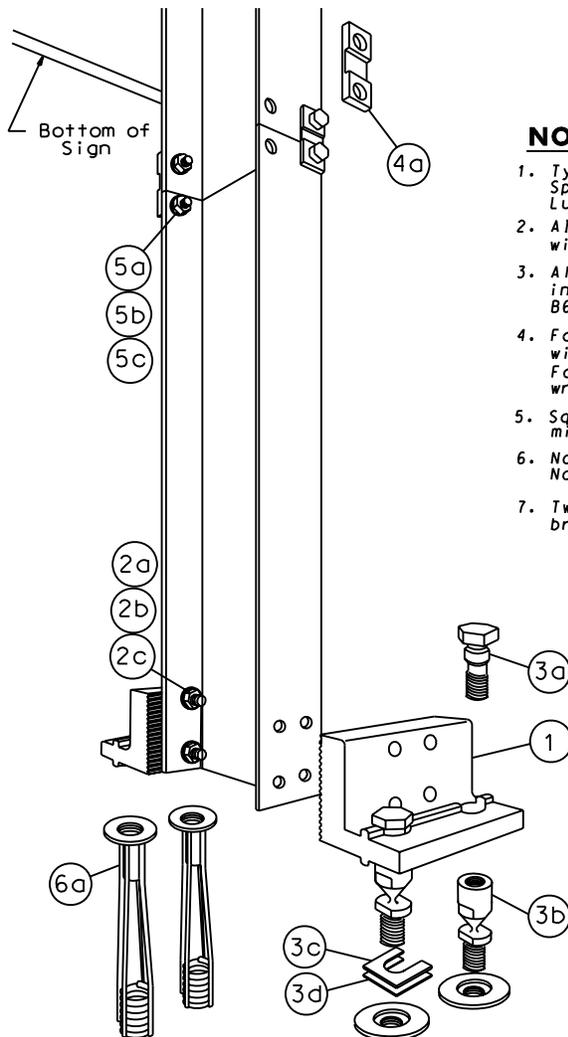


MATERIAL LIST FOR 6X9 STEEL W-BEAM SIGN POSTS (A16)

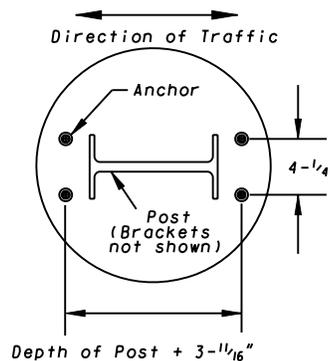
ITEM	DESCRIPTION	SIZES/SPECIFICATIONS	QTY/ POST	PART NUMBER
1	Bracket, Type A16 6061-T6 Aluminum		2	SBAK6117
2	Bracket Hardware Assembly, Type A16, includes:		1	SB-A16H
2a	Bolt	1/2" -13UNCx2-1/4", Hex Head, ASTM A325, Galv. ASTM A153	8	
2b	LockWasher	1/2", ANSI B18-21-1, Galv. ASTM A153	8	
2c	Nut	1/2" -13UNC, Heavy Hex, ASTM A563 Gr. DH, Galv. ASTM A153	8	
3	Coupling & Special Bolt Assembly, Type A, includes:		1	SB-CALP
3a	Special Bolt	5/8" -11UNC, ASTM A449, Galv. ASTM A153/B695	4	
3b	Coupling	5/8" -11UNC, LP, AMS 6378D, Galv. ASTM A153, Polyester Coat	4	
3c	Shim	5/8" Horseshoe, 14 Gauge, Galv. Steel Sheet	2	
3d	Shim	5/8" Horseshoe, 18 Gauge, Galv. Steel Sheet	2	
4	Hinge Assembly, Type A, includes:		1	SB-HB3
4a	Hinge Plate	Type A, AISI 4130 Steel, Galv. ASTM A123	4	
5	Hinge Hardware Assembly, Type A, includes:		1	SB-HHA
5a	Bolt	1/2" -13UNCx 1-1/2", Hex Head, ASTM A325, Galv. ASTM A153	8	
5b	LockWasher	1/2", ANSI B18-21-1, Galv. ASTM A153	8	
5c	Nut	1/2" -13UNC, Heavy Hex, ASTM A563 Gr. DH, Galv. ASTM A153	8	
6	Anchor Assembly, Type A, includes:		1	SBAAPK
6a	Anchor	5/8" -11UNC, 304 S.S. Ferrule, AISI 1045 Rod, AISI 1008 Coil	4	



NOTES:

1. Type A16 system shall meet all requirements of "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals."
2. A16 is designed to fit W6x9 wide-flange steel W-Beam signposts.
3. All hardware items are American Standard sizes, galvanized in accordance with ASTM A153 (hot dipped) or ASTM B695 (mechanically applied).
4. Fasteners, except for special bolt and coupling, are installed with lockwashers, and do not have specific torque requirements. Fasteners should be secured as tight as possible with conventional wrenches, unless noted otherwise.
5. Square-up and level individual components, particularly Anchors to minimize the need for shimming between the Couplings and Anchors.
6. No more than two shims shall be placed under any one coupling. No more than three shims underneath any pair of couplings.
7. Two W6X9 sign posts may be placed within 7' when utilizing breakaway support system 'A'.

PLAN VIEW OF TYPICAL FOUNDATION



SPECIFICATION 821	CATEGORY CODE ITEMS		
APPROVED		DIRECTOR - OFFICE OF TRAFFIC AND SAFETY	
SHA State Highway Administration	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	
	APPROVAL 5-17-07	APPROVAL 5-2-07	
	REVISED 3-22-10	REVISED 3-10-10	
	REVISED	REVISED	

Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES
BREAKAWAY BASE SUPPORT SYSTEM 'A'
FOR HIGHWAY SIGNS

STANDARD NO. MD 821.03-07