



U.S. Department  
Of Transportation  
**Federal Highway  
Administration**

400 Seventh St., S.W.  
Washington, D.C. 20590

February 22, 1999

Refer to: HMHS/SS-68D

Mr. Lawrence Leahy  
President, Xcessories Squared  
P.O. Box 135  
Auburn, IL 62615

Dear Mr. Leahy:

This is in response to your letters of January 13 and June 15, 1998, to Mr. Nicholas Artimovich of my staff requesting Federal Highway Administration acceptance of a variation in your company's triangular multidirectional slip base. You provided additional information of September 10, 1998, in response to our request.

We have previously found your "SB8" breakaway slip bases acceptable for single post supports on September 18, 1996, (Geometrical and Roadside Design Acceptance Letter SS-68) and for dual and triple post supports on December 29, 1996, (SS-68A). These designs used triangular plates measuring 8 inches (203 mm) on a side.

Your current request is for an identical breakaway design using "10 inch" (254 mm) triangular slip plates. This larger base (the "SB10") would accommodate a 3-inch (76.2 mm) square tube sign support. You indicated that the largest sign you would recommend for use on a single post with the SB10 base is 3.25 square meters (35 square feet). However, you do not recommend the SB10 slip base with 76.2 mm square (3 inch square) steel post be used with a winged anchor in soil when carrying more than 1.86 square meters (20 square feet) per each support. You recommend a heavy wall anchor set in concrete be used as a foundation for this application.

Due to the acceptable performance of the "SB8" system when tested with a single post, we believe that the subject slip base will perform in an acceptable manner. Therefore, single 3-inch square supports using the "SB10" slip base are acceptable for use on the National Highway System within the range of conditions tested and with the limitations you have placed on it, when requested by a State. This acceptance letter, numbered SS-68D, shall not be reproduced except in full.

Our acceptance is limited to the breakaway characteristics of the supports and does not cover their structural features. Presumably, you will supply potential users with sufficient

information on structural design and installation requirements to ensure proper performance. We anticipate that the States will require certification from Xcessories Squared that the slip base hardware and posts furnished will have essentially the same chemistry, mechanical properties and geometry (except as modified for the larger size) as that used in the tests, and that they will meet the FHWA change in velocity requirements.

The SB10 Slip Base is a “proprietary” product. To be used in Federal-aid projects, except exempt, non-NHS projects: (a) must be supplied through complete bidding with equally suitable unpatented items; (b) the highway agency must certify that they are essential for synchronization with existing highway facilities for that no equally suitable alternative exists or; (c) they must be used for research or for a distinctive type of construction on relatively short sections of road for experimental purposes. Our regulations concerning proprietary products are contained in Title 23, Code of Federal Regulations, Section 635.411, a copy of which is enclosed.

The conditions in our letter of September 18, 1996 continue to apply.

Sincerely Yours,

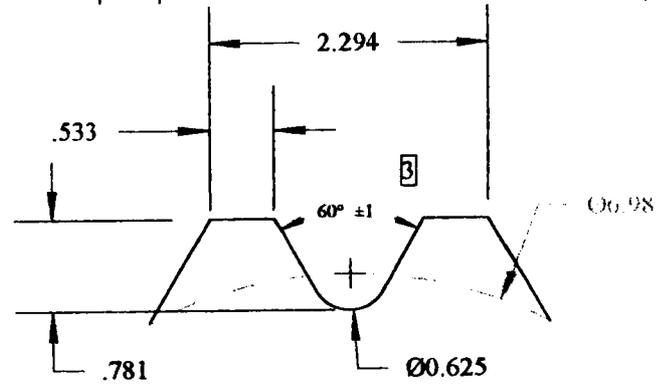
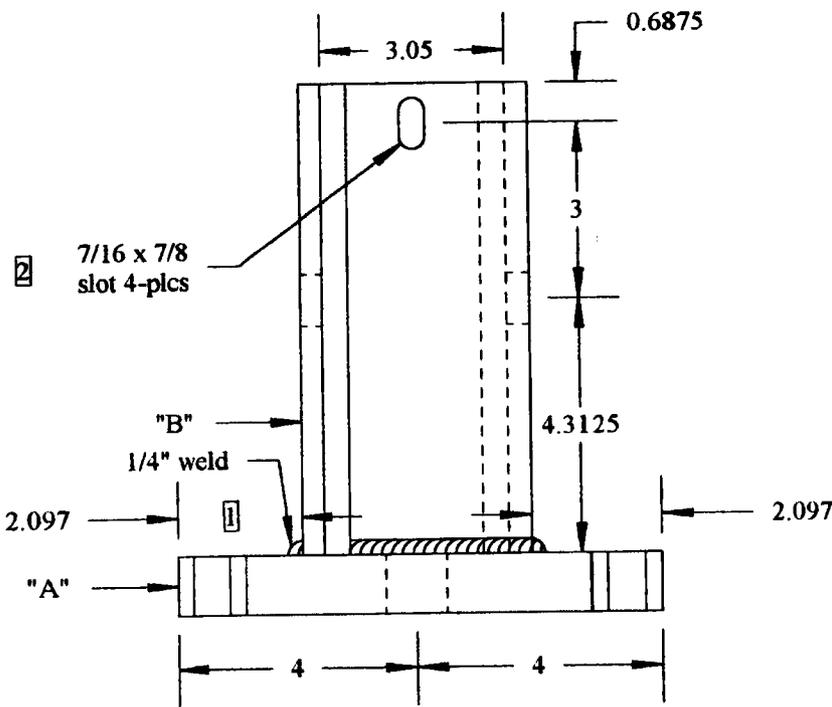
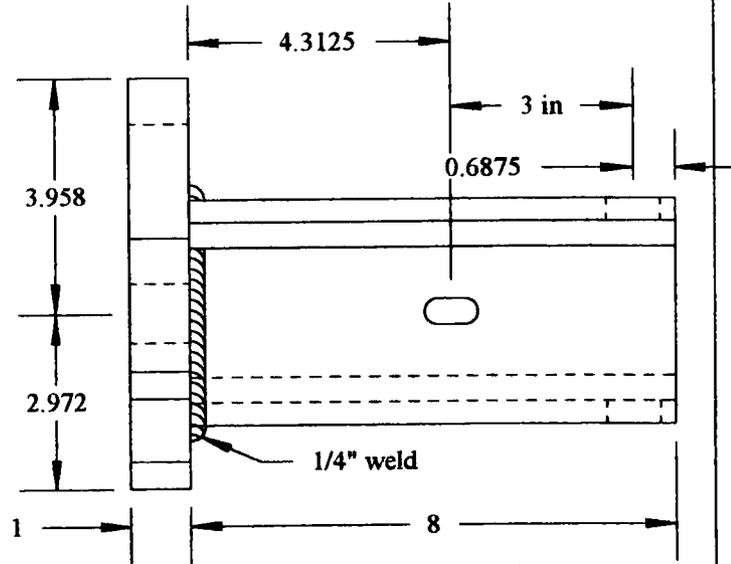
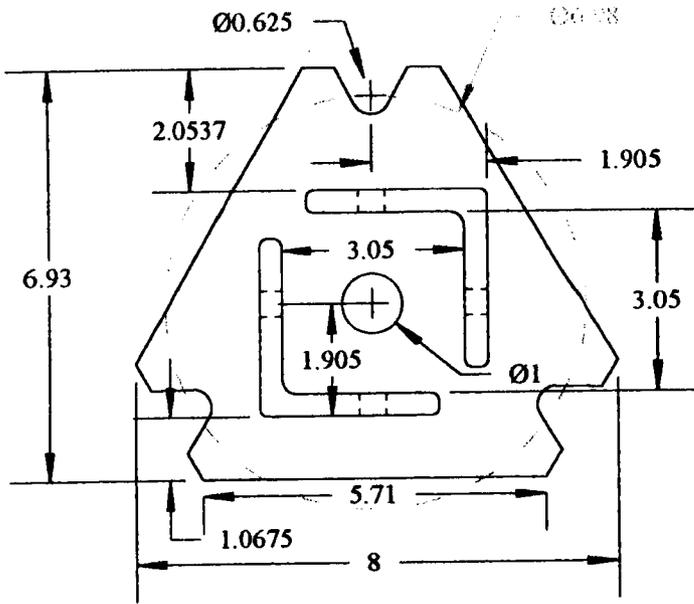
Dwight A. Horne  
Director, Office of Highway Safety  
Infrastructure

Unit of measure - Inches  
 Do not scale drawing - work to dimensions  
 All tolerances +/- .005 unless otherwise noted

# Xcessories Squared

Development & Mfg. Co. Inc

7350 W. St. Rt. 104 Auburn, IL 62615



PROVIDED WITH 2 EA GRADE 8 HEX BOLTS(3/8"-16 X 4 1/2"),  
 2 EA GRADE 8 SERRATED FLANGE NUTS(3/8"-16) &  
 2EA 3/8" STEEL FLAT WASHERS

1. Surface "A" to be 90 degrees to Surface "B".
2. Punch 1 slot on opposite sides{point & flat of triangle} 11/16", on center, from top of surface "B". Punch one slot on opposite sides{opposite point & flat of triangle} 3-11/16", on center, from top of surface "B".
3. Notches to be deburred to a smooth finish.

REVISIONS

NOTES:

**PROPRIETARY PRINT**  
 NOT TO BE DUPLICATED  
 PROPERTY OF  
 XCESSORIES SQUARED

MATERIALS

"A": 1" A-36 Plate.  
 "B": 3" x 3" x 3/8" A-36 structural angle.

FINISH

ASTM A123/A153 Hot Dip Galvanizing.

PART#

SB10-300AG

DATE

6-12-98

DRAWING#

10100

PRODUCT NAME

Large Slip Base Top - 10" Triangle

DESCRIPTION

Top Half of Slip Base to receive 3" square x 7 ga. Tube.

WEIGHT

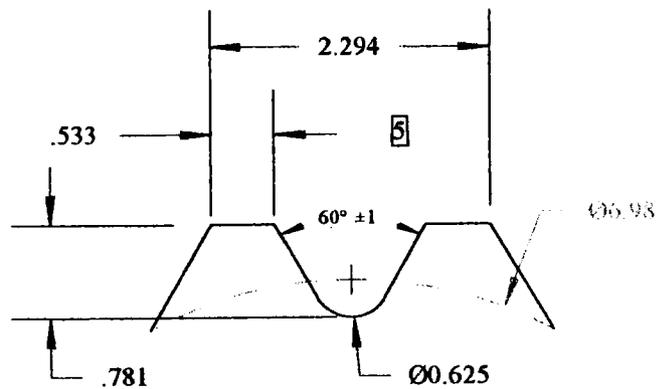
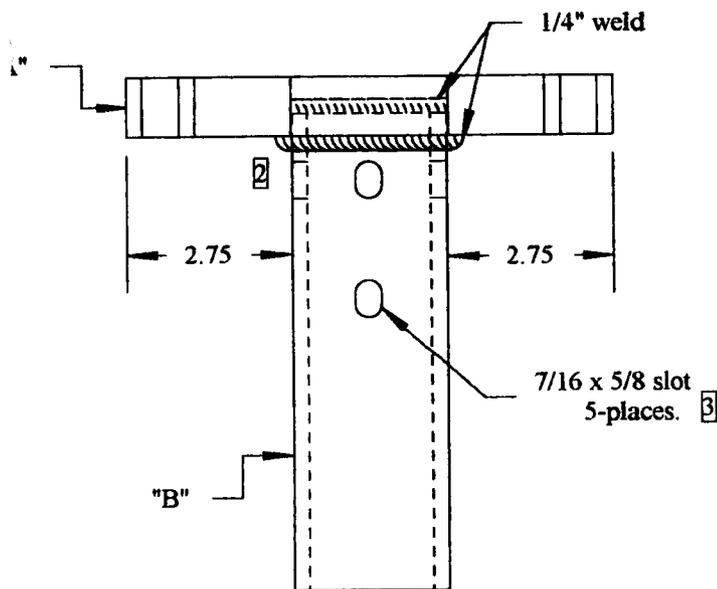
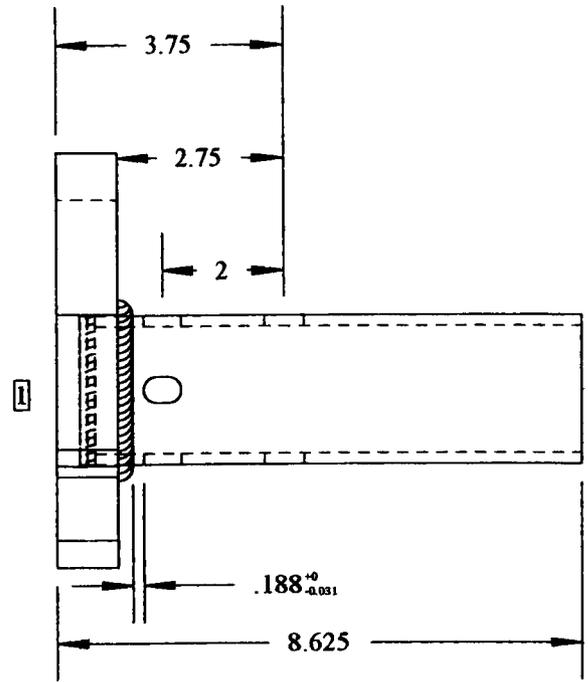
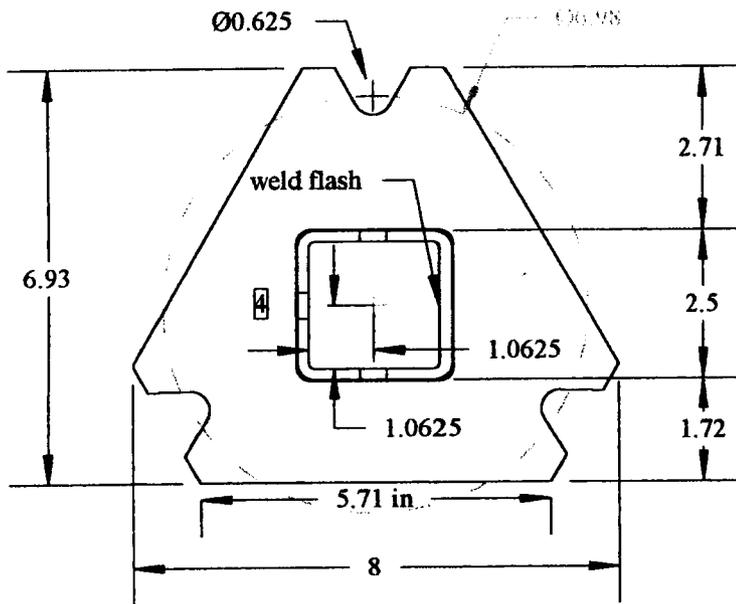
20.22 lbs.

Unit of measure - Inches  
 Do not scale drawing - work to dimensions  
 All tolerances +/- .005 unless otherwise noted

# Xcessories Squared

Development & Mfg. Co. Inc

7350 W. St. Rt. 104 Auburn, IL 62615



PROVIDED WITH 2 EA GRADE 8 FLANGE BOLTS(3/8"-16 X 3 1/2")  
 & 2 EA GRADE 8 SERRATED FLANGE NUTS(3/8"-16)

**NOTES:**

1. Insert Surface "B" 3/8" into Surface "A".
2. Surface "A" to be 90 degrees to surface "B" (+/- 1/2 Degree).
3. Punch 2 slots on opposite sides {point & flat of triangle} 1 1/4" & 3 3/4" from top of surface "B". Punch 1 slot opposite weld flash 1 1/4" from top of surface "B".
4. Square hole in surface "A" to be 2.53" (+.01/-0).
5. Notches to be deburred to a smooth finish.

**REVISIONS**

**NOTES:**

**PROPRIETARY PRINT**  
 NOT TO BE DUPLICATED  
 PROPERTY OF  
 XCESSORIES SQUARED

**MATERIALS**

"A": 1" A-36 Plate.  
 "B": 2 1/2" x 2 1/2" x 1/4" Wall ASTM  
 A500B Tube.

**FINISH**

ASTM A123/A153 Hot Dip  
 Galvanizing.

**PART#**

**SB10-250300BG**

**DATE**

4-28-98

**DRAWING#**

10200

**PRODUCT NAME**

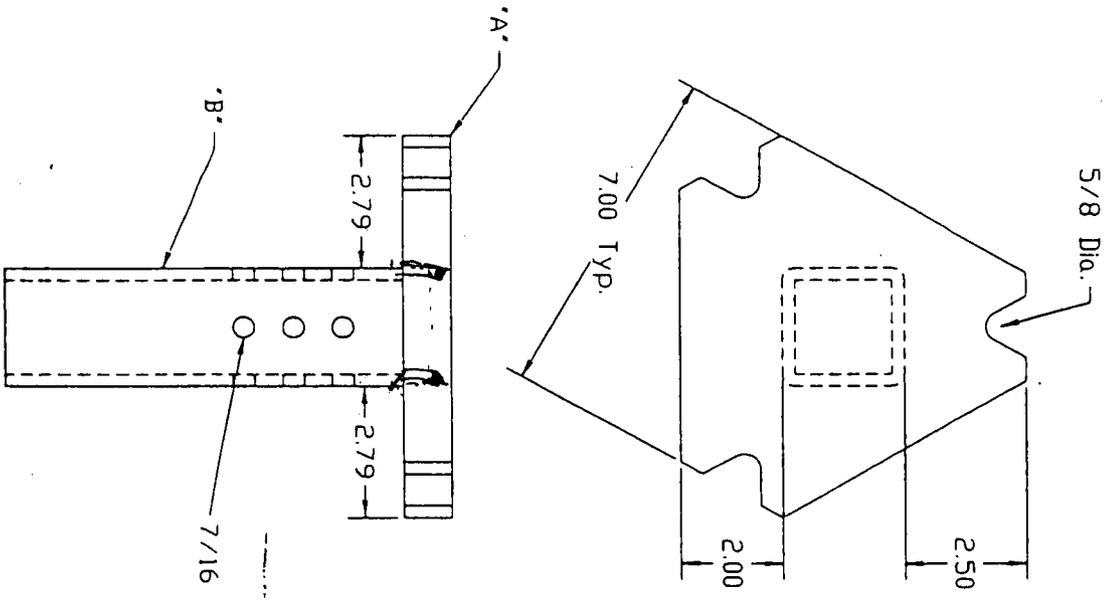
Large Slip Base Bottom - 10" Triangle

**DESCRIPTION**

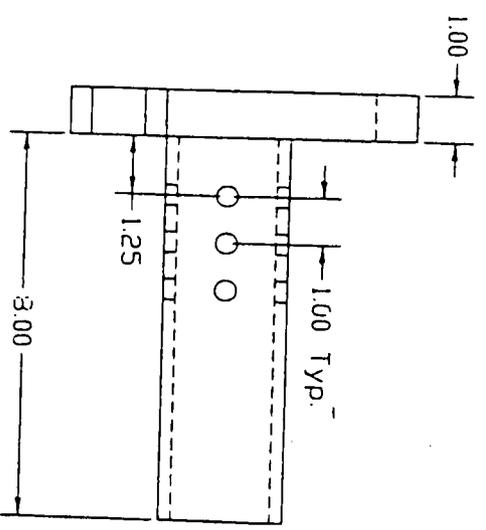
Bottom Half of Slip Base fits HDA250 & TWA250 Series  
 Anchors.

**WEIGHT**

13.27  
 lbs.



7/16 Dia Typ. 12 Pcs.



**PROPRIETARY PRINT**  
 NOT TO BE DUPLICATED  
 PROPERTY OF  
**XCESSORIES SQUARED**

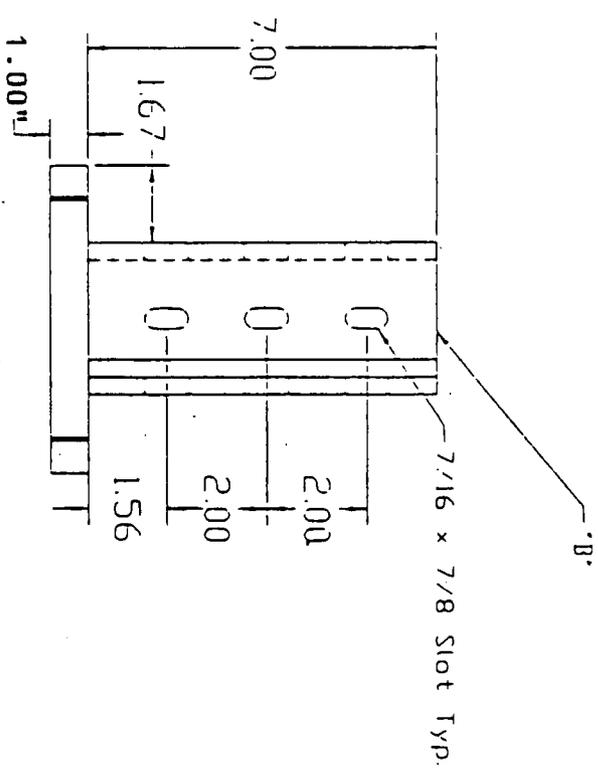
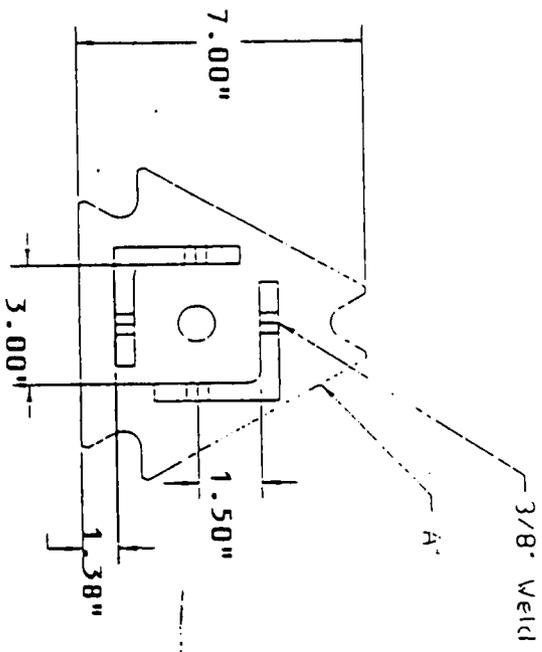
**NOTES:** Materials: 1" A-36 Plate  
 2 1/2" x 2 1/2" x 5/16" Wall ASTM A500B Tube

Revision	

PRODUCT NAME:		10" Series Slip Base Bottom	
PRODUCT #:	DRAWING #:	CHECKED:	
SR10-250300BC			
DATE:	DRAWN BY:		SS
7-1-97			

**Xcessories SQUARED**  
 Development & Mfg. Co. Inc.

• Traffic Sign Support Products •  
 P.O. Box 135, 7350 W. St. Rt. 104  
 Auburn, IL 62615  
 Phone (217)438-3535 • Fax (217) 438-3917



**PROPRIETARY PRINT**  
 NOT TO BE DUPLICATED  
 PROPERTY OF  
 XCESSORIES SQUARED

**NOTES:**  
 Materials: 1" ASTM A-36 Plate  
 3" x 3" x 3/8" A-36 Angle

Revision

PRODUCT NAME: 10" Series Slip Base Top		
PRODUCT #: SB10-300AG	DRAWING #:	CHECKED:
DATE: 6-27-97	DRAWN BY: SS	

**Xcessories SQUARED**  
 Development & Mfg. Co. Inc.  
 • Traffic Sign Support Products •  
 P.O. Box 135, 7350 W. St. Rt. 104  
 Auburn, IL 62615  
 Phone (217) 438-3535 • Fax (217) 438-3917