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C. COLE
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2010 EDITION
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NOTES:

1. All materials and construction shall conform to the requirements of the Specifications.
2. The hardware used to connect the pole to the base, and the base to the foundation, shall meet all applicable structural and installation requirements, as prescribed by the pole and break-away base manufacturer.
3. Poles shall be mounted on break-away base with 4 high strength bolts (ASTM A325), utilizing 1 hex nut, 1 flat washer and 1-2³/₄" Dia x 1¹/₁₆" ID x 1/2" Thick steel washer per bolt, all furnished with the break-away base.

Base Type	Bolt Size	Pole Types
2	1" Dia X 4"	Aluminums S, G and Steel A and 5
3	1 1/4" Dia X 4 1/2"	Aluminums H, I and T

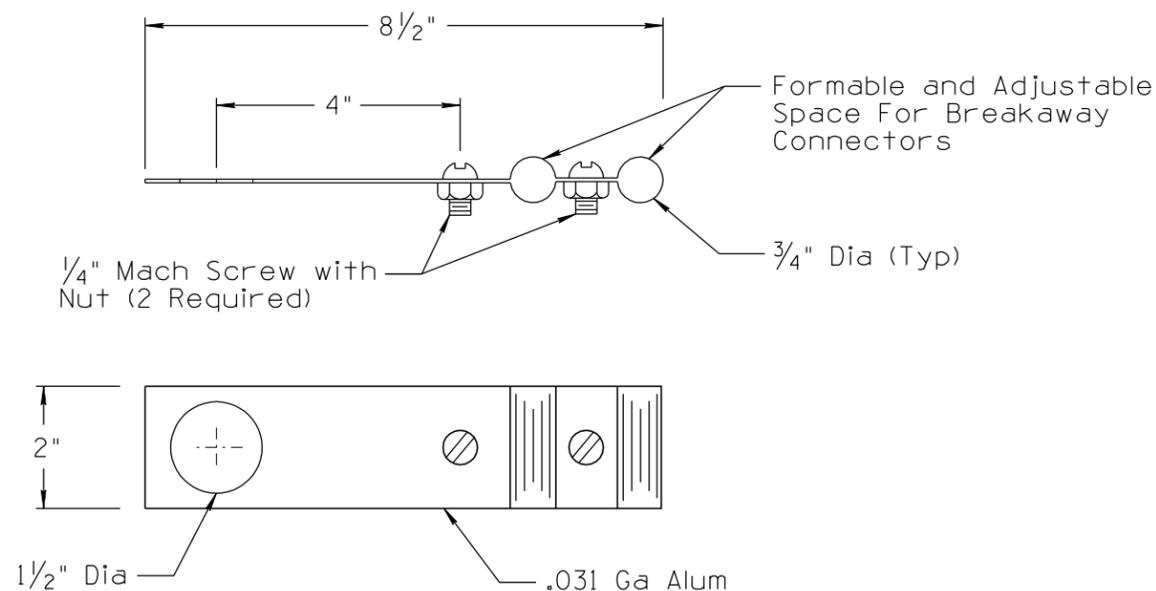
4. All bolts shall be installed and torqued according to the break-away base manufacture's requirements.
5. The base shall be installed such that the base access door or cover is positioned under the mast arm, or 180 degrees to the mast arm. (behind the mast arm side of the pole). The door or cover opening shall always be perpendicular to the direction of traffic.
6. Use un-fused connector for each conductor in break-away base, except for the bond which shall be connected directly to the base ground lug. For details see T.S. Series 1. The fused connections shall be in the junction or pull box adjacent to the pole foundation.
7. The base door or cover shall have the base and/or pole manufacturer's name on it. Door shall be secured with standard 1/4"-20 stainless steel hex screws or vandal-resistant screws shall be provided. Door can be a removable panel, or hinged.
8. All 2³/₄" Dia x 1¹/₁₆" ID x 1/2" Thk washers and 2³/₄" Dia x 1⁵/₁₆" ID x 1/2" Thk washers shall be zinc mechanical coated per ASTM B 695-85 class 50, with a smooth outer surface. All other bolts, nuts & washers shall be galvanized per ASTM A153.
9. The bases shown are two piece weldments that are in conformance to ASTM B 108 aluminum alloy permanent mold castings.
10. Certifications to be provided by pole and break-away base manufacturer when requested. Certifications shall cover materials used, FHWA crash worthy approval, and conformance to loading criteria stated herein.
11. The caution and use instructions label shall be secured inside the base on the wall opposite of the access door plate or on the cover itself.
12. The base, as supplied and installed, shall conform to all of the applicable AASHTO, NCHRP and FHWA requirements for frangibility bases, for roadway light poles.
13. The base shown on these drawings is made by the Akron Foundry. This is not intended to limit or restrict competition. Rather it is done to establish the needed or performance and function of break-away bases.
14. These bases can be used for non-breakaway applications too.

BASE LOADING CRITERIA:

Base Type	Max Total Weight (1) (2)	Pole	Mast Arm and Luminaire	Akron Designations
2	550 lb	350 lb	200 lb	TB2-17
3	900 lb	600 lb	300 lb	TB3-17

LOADING CRITERIA NOTES:

1. The loading criteria should be regarded as minimum. Actual criteria shall be as determined by the base and/or pole manufacturer
2. Highway Light Pole & Mast Arm/Luminaire combinations which exceed this loading criteria must be tested and FHWA certified in accordance with the applicable AASHTO Specifications, NCHRP and FHWA requirements.



DETAIL "A"

(In-Line Connector Clamp exact configuration can vary if needed function can be achieved)

NOT TO SCALE

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS	REVISION 03/10
APPROVED FOR DISTRIBUTION		DRAWING NO. T.S. 5-0
TYPE 2 AND 3 CAST ALUMINUM BREAK-AWAY BASES		SHEET NO. 1 OF 1