

ENGINEERING & STANDARDS DEPARTMENT
693A Spanish Town Road, Kingston 11
Tel. 733-6171 or 937-9320

T & D MATERIAL PURCHASING SPECIFICATION

JPS SPECIFICATION: STANDOFF-BRA-2022	DATE: May 3, 2022
ITEM STOCK: 020803022012	SUPERSEDES: May 28, 2004

DESCRIPTION: Brackets, Standoff

APPLICATION: To provide horizontal standoff mounting of distribution class single bolt base-mount insulators.

SPECIFICATION

This specification covers the standoff brackets, which provide horizontal standoff mounting of distribution class single bolt base-mount insulators.

The standoff bracket shall be capable of supporting insulators on poles ranging in types from wood to concrete and metal. The bracket shall be fabricated from all aluminum components, and shall be capable of being mounted on poles with 10" hole spacing using 5/8" diameter bolts. Provision shall also be made on the bracket to accommodate 1 1/4" pole bands. The bracket shall be capable of providing 3 inches of vertical field adjustment, and shall have affixed to it a copper plated ground wire clamp for grounding.

Extruded Aluminum Structural Elements

The extruded aluminum parts of the bracket shall conform to all mechanical and chemical requirements as established for alloy 6061-T6, by the Aluminum Association and ASTM standard specification B221. The bracket shall have **minimum** mechanical parameters as stipulated below.

Tensile Strength	45,000 psi
Yield Strength	40,000 psi
Elongation in 2" centers	17%

Galvanized Steel Assembly Fasteners

The galvanized steel hardware used to assemble the standoff bracket shall conform to all stipulation of the latest versions of IEEE standard specification C135.1 and ANSI/ASME

specifications B18.2.1, B18.2.2, B18.5, B18.21.1, B18.22.1. All steel hardware components shall be class C hot dipped galvanized as per ASTM A153. In addition, the steel assembly fasteners shall be coated with a suitable protective coating conforming to or exceeding the latest edition of ASTM F1428. The average thickness of the applied coating shall be as per ASTM F1428 Table 1.

The standoff bracket shall have dimensions as per attached drawing STND-03042 shown in Figure 1.

Tests

The standoff bracket shall be subjected to tests and stipulated results as per the latest versions of ASTM B221, AA 6061-T6, IEEE C135.1, ASTM B557, ASTM A153, ASTM E6, ASTM F1428, ANSI/ ASME B18.2.1, B18.2.2, B18.5, B18.21.1, B18.22.1. Certified test reports shall be made available to the purchaser upon tender.

Drawings

Manufacturer's drawing shall be furnished at the time of tendering, and shall indicate the outline of the standoff bracket, together with all pertinent mechanical characteristics, and dimensions as specified herein.

All suppliers shall complete the attached form (F03042), which shall form part of the evaluation process.

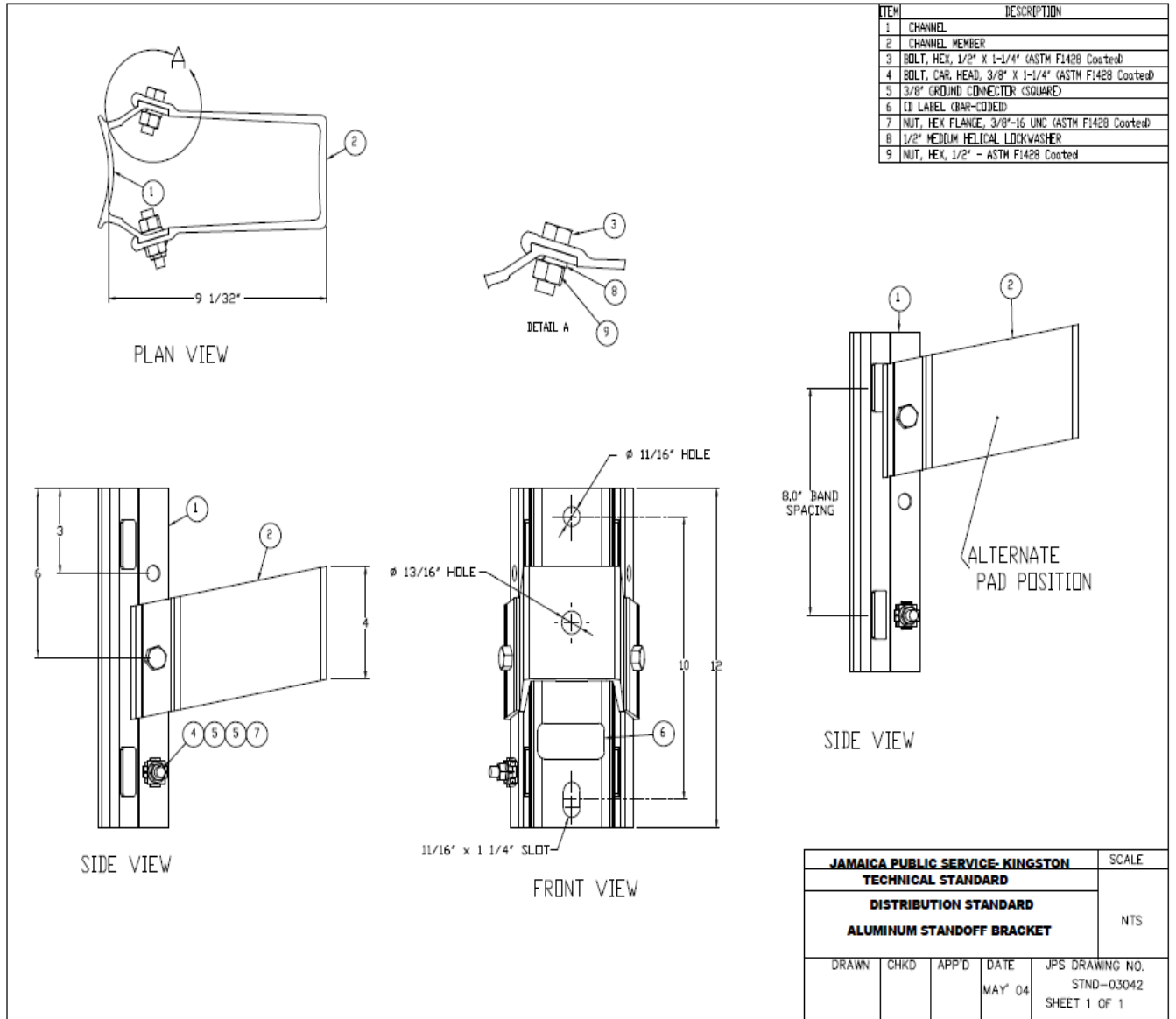


Figure 1. Aluminum Standoff Bracket

Prepared By:	Reviewed By:	Approved By:
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MATERIAL DATA FORM
STANDOFF BRACKET (F03042)

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Manufacturer	
Catalogue Number	
Manufacturing Standards	
Extrusion Type	
Extrusion Tensile Strength	
Extrusion Yield Strength	
Drawings Attached indicating dimensions?	
Type/ class of galvanizing	
Name of coating	
Color of coating	
Section Thickness	
Elongation through 2" centers	
Weight of complete assembly	
Test results attached?	