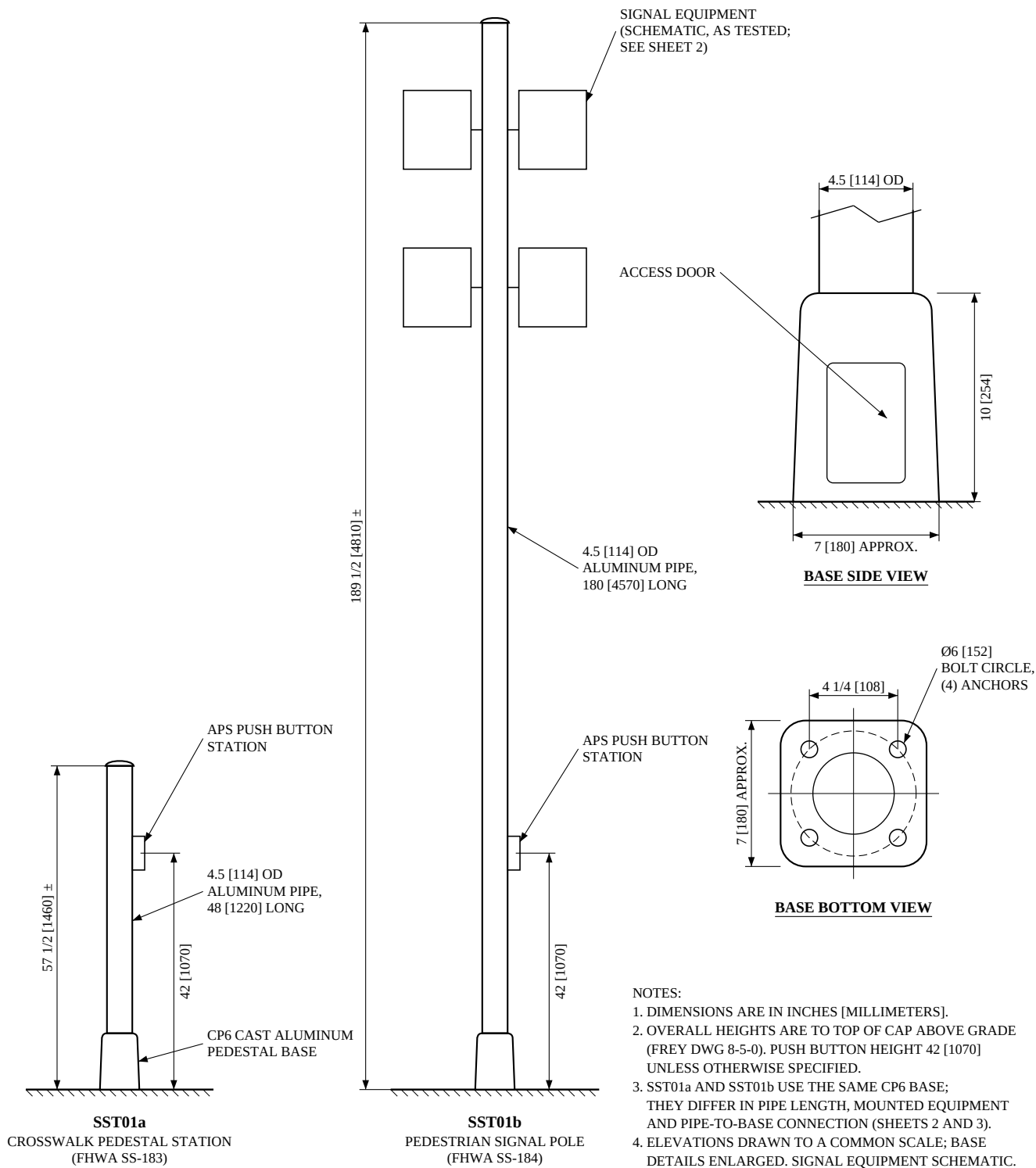




2022

CP6 SERIES CROSSWALK PEDESTAL STATION & PEDESTRIAN SIGNAL POLE

FREY
Manufacturing

SST01a-b

SHEET NO.

DATE

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10/7/2026

INTENDED USE

The Frey Manufacturing CP6 Series is a breakaway pedestrian pedestal pole for crosswalks. It consists of a cast aluminum pedestal (transformer type) base, a 4 inch nominal aluminum support pipe threaded into the base, and a cast aluminum top cap, and it supports accessible pedestrian signal (APS) push button stations and pedestrian and traffic signal equipment. The system was successfully crash tested to Test Level 3 (TL-3) in accordance with AASHTO MASH 2016 (Tests 3-60, 3-61 and 3-62) in two configurations:

SST01a, Crosswalk Pedestal Station: 4 ft [1.2 m] support pipe with an APS push button station. The pipe is threaded into the base and secured with a through-bolt that passes through the pipe and base; a cable tether is attached to the through-bolt at one end and to one of the anchors at the other.

SST01b, Pedestrian Signal Pole: 15 ft [4.6 m] support pipe with an APS push button station and traffic signal equipment. The pipe is threaded into the base and secured with two (2) set screws.

FEATURES

- **Pedestal base:** one-piece sand-cast aluminum, ASTM A356-T6, with access door and grounding terminal. Height 10 in. [254 mm]; footprint approximately 7 in. x 7 in. [180 mm x 180 mm]; 4 in. nominal NPT threaded pipe socket; four anchor slots on a 6 in. [152 mm] bolt circle; two 3/8-16 UNC tapped holes for pipe set screws.
- **Support pipe:** 4.5 in. [114 mm] outside diameter aluminum pipe (6061-T6 extruded), 0.3 in. [8 mm] wall as tested, threaded into the base. The top cap is cast aluminum, secured with set screws.
- **Anchorage as tested:** four (4) 5/8 in. [16 mm] diameter x 7-1/2 in. [191 mm] threaded studs with washers and nuts, epoxied into a 6 in. [152 mm] thick concrete pad with an embedment depth of 4 in. to 5 in. [102 mm to 127 mm].
- **Installation:** per Frey CP6 Series installation instructions. Level the base with shims if needed, apply aluminum-compatible anti-seize to all threaded surfaces, torque 5/8 in. anchor nuts to 94 ft-lbs, and do not use the pipe threads for directional adjustment of signals. The center of the push button is 42 in. [1070 mm] above grade unless otherwise specified.

ELIGIBILITY

The CP6 Series has been tested to MASH 2016 Test Level 3 and is eligible for Federal-aid reimbursement by FHWA.

FHWA Eligibility Letter SS-183 dated January 30, 2019 (Crosswalk Pedestal Station, SST01a), MASH Test Level 3.

FHWA Eligibility Letter SS-184 dated January 30, 2019 (Pedestrian Signal Pole, SST01b), MASH Test Level 3.

REFERENCES

Manual for Assessing Safety Hardware (MASH), American Association of State Highway and Transportation Officials (AASHTO), 2016.

Applus IDIADA KARCO Engineering, Adelanto, CA. Crosswalk Pedestal Station, MASH Tests 3-60, 3-61 and 3-62, Reports TR-P38154-01-NC, TR-P38154-02-NC and TR-P38154-03-NC, 2018.

Applus IDIADA KARCO Engineering, Adelanto, CA. Pedestrian Signal Pole, MASH Tests 3-60, 3-61 and 3-62, Test Nos. P38168-01, P38168-02 and P38168-03, 2018.

CONTACT INFORMATION

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CP6 SERIES CROSSWALK PEDESTAL STATION & PEDESTRIAN SIGNAL POLE

SST01a-b

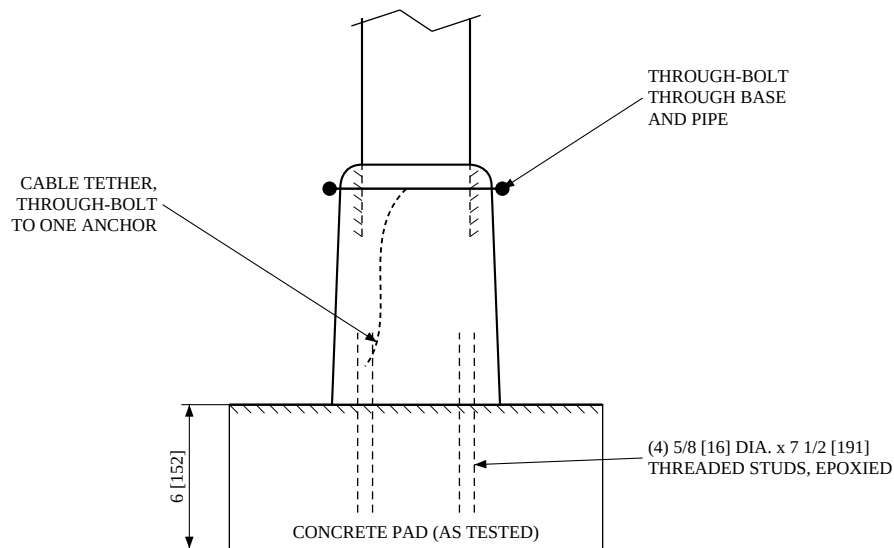


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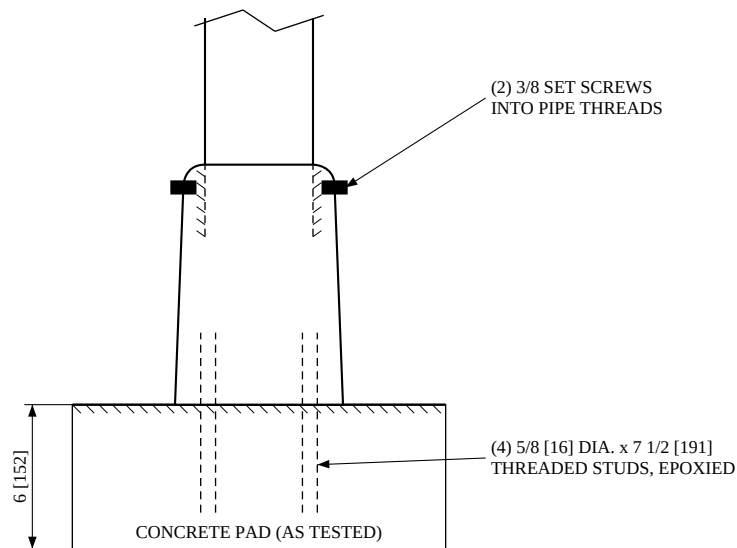
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SST01a PIPE-TO-BASE CONNECTION
THROUGH-BOLT WITH CABLE TETHER (FHWA SS-183)



SST01b PIPE-TO-BASE CONNECTION
TWO (2) SET SCREWS (FHWA SS-184)

NOTES:

1. DIMENSIONS ARE IN INCHES [MILLIMETERS].
2. ANCHORAGE SHOWN IS THE AS-TESTED CONDITION:
THREADED STUDS EPOXIED INTO A 6 [152] THICK
CONCRETE PAD, EMBEDMENT 4 [102] TO 5 [127].
3. PIPE IS THREADED INTO THE BASE (4 IN. NOMINAL
NPT). DO NOT USE PIPE THREADS FOR DIRECTIONAL
ADJUSTMENT OF SIGNALS.
4. TETHER AND THREAD DETAILS ARE SCHEMATIC.

CP6 SERIES CROSSWALK PEDESTAL STATION & PEDESTRIAN SIGNAL POLE

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