Standard Drawing Report

Date: May 1, 2026

Technical Owner: Traffic – Jennifer Ruth Tower, P.E.

Standard Drawing No. P-407 **Calculation Book No.** n/a

Drawing Title: Modified Bike Rack Sign Mount

Original Report Date: August 9, 2023 (Jennifer Ruth Tower)

Background Information, Including Reference Material:

1) Manual on Uniform Traffic Control Devices, 2009 Edition (MUTCD), Chapter 2
2) PBOT Traffic Manual
3) PBOT Standard Drawing P-576, Bike Rack

Assumption Made:

Described in design narrative below.

Design Narrative:

In 2011 the Portland Bureau of Transportation experimented with installation of signs indicating crosswalk or sidewalk closure on bike racks modified for sign installation. This modified bike rack served both as a sign mount and a detectible physical barricade, similarly to ODOT's use of the modified Mailbox Support (RD100) for Crosswalk Closures on ODOT facilities (TM240). Previously to this, the signs were typically installed on a standard pipe post PBOT sign mount.

The bike rack was selected because it was smaller in scale than ODOT's Mailbox Support and better suited the urban environment found in most of the City of Portland. It was also an item stocked by Maintenance Operations and easily modified to accommodate sign installation. Bike racks are detailed in P-576 and have been used in the City of Portland since at least 2003.

The first modified bike rack with sign installation performed well and Standard Drawing P-407 was created for its use on projects in early 2015. It was updated once in 2018 to reflect a change in signing practice. A different sign graphic was shown in the isometric view.

For the May 2026 update, the following revisions were made:

1) Dimension for the vertical location of the bottom cross bar was corrected to match P-576.
2) Sign graphic in isometric view was replaced with a generic sign to represent any installation.
3) Reduced sign graphic size for front view to align with crossbars per general notes.
4) Corrected paint color code typo in note 5.