



Standard Drawing Report

Date: August 9, 2023

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

Standard Drawing No. P-412 **Calculation Book No.** n/a

Drawing Title: Street Name Sign Hardware Details for Pipe Post Mount



Expires 6/30/24

Original Report Date: October 3, 2017

Background Information, Including Reference Material:

The draft versions of what became standard drawing P-412 were first created in 2002 to document hardware that the Portland Transportation Maintenance Operations group used for sign installations. Prior to 2002 the Portland Bureau of Transportation relied on Maintenance Operations crews to install signs for capital projects. In 2002 during the creation of the first version of this standard drawings Maintenance Operations staff Traffic Engineer Dave Hutson was asked how long they had been using this particular sign hardware. Dave Hutson replied that Maintenance Operations had been using the hardware, "...for several years... This is not a new standard."

Assumption Made:

The sign hardware shown on P-412 is used for mounting street name signs on the top of two-inch pipe posts. Standard drawing P-420 includes details of when to use 8-inch street name signs vs. 12-inch street name signs depending on the posted speeds of the roadway. Standard drawing P-400 includes details of mounting height for a street name signs on a two-inch pipe post.

Design Narrative:

Single SNS Post cap 12": Used for post-mounted street name signs. This hardware is documented to have been used by Portland Transportation Maintenance Operations since at least several years prior to 2002 with no known issues.

Double SNS Cross-Piece 12”: Used for post-mounted street name signs when two street name signs are mounted on the same pipe post. This hardware is documented to have been used by Portland Transportation Maintenance Operations since at least several years prior to 2002 with no known issues.

The following is a list of the revisions that were made for the September 9, 2022 drawing:

- 1) The 6” hardware was removed based on feedback from Maintenance Operations that they no longer use it due to observed installation failures. Only the 12” hardware is now used, no matter how long the street name sign is.