



# Standard Drawing Report

**Date:** October 3, 2017

**Technical Owner:** Traffic - Lewis H. Wardrip, P.E.

**Standard Drawing No.** P-413      **Calculation Book No.** n/a

**Drawing Title:** Street Name Sign Hardware Details for Cantilever Mount



Expires 06/30/18

## Background Information, Including Reference Material:

The draft versions of what became standard drawing P-413 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-413 is used for cantilever mounting street name signs on signal or street light poles. 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 and orientation of a cantilever mounted street name sign.

## Design Narrative:

**SNS Cantilever Bracket:** Used for street name signs that are less than 36" long. 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.

**SNS Cantilever Bracket Extension:** Used for street name signs that are more than 36" long. Signs greater than 36" require the additional 18.5" stabilizing extension channel to prevent damage from high winds. 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.