Sutton Screened in Awning / Porch

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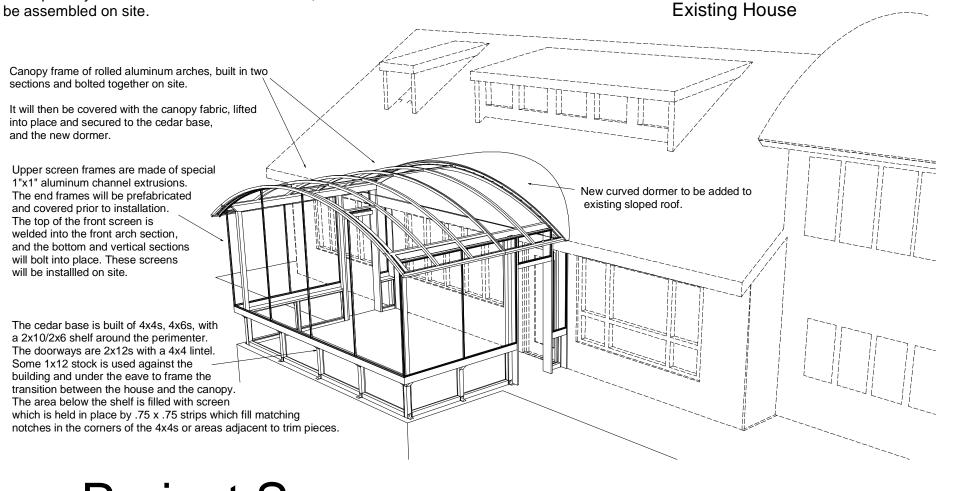
Sheet # 1

This is to be a well built awning structure which will function as a screened three season porch. A new curved dormer will be added to the existing roof, and the new awning will tuck up under the new gable edge.

The awning material will cover an arched aluminum canopy frame.manufactured off site and deleivered in two sections. The aluminum arches will rest on a cedar base of 4x4 posts, 4x6 lintels, doorways, with a base shelf rail around the bottom edge.

The cedar will be bolted to the deck with stainless steel angle brackets.

The area between the railing and the canopy will be filled with specially made aluminum framed screens, which will be assembled on site.



Project Summary

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Project Summary

No Scale Sheet # 2 The Dormer is built centered on the cement porch slab.

The canopy edge sits on it.

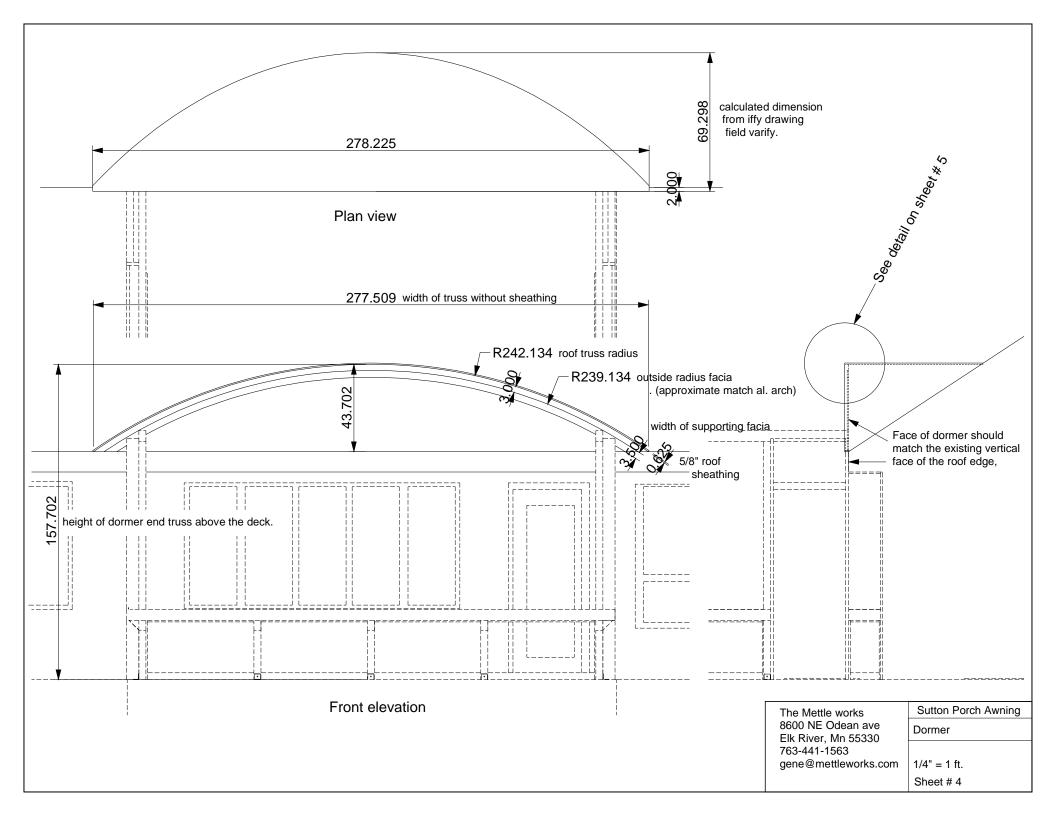
The canopy will slip in under the edge of the dormer and seal with a gasket. The facia will need to be cut to fit around the ends of the main canopy support beams and the upper extension of the door frame.

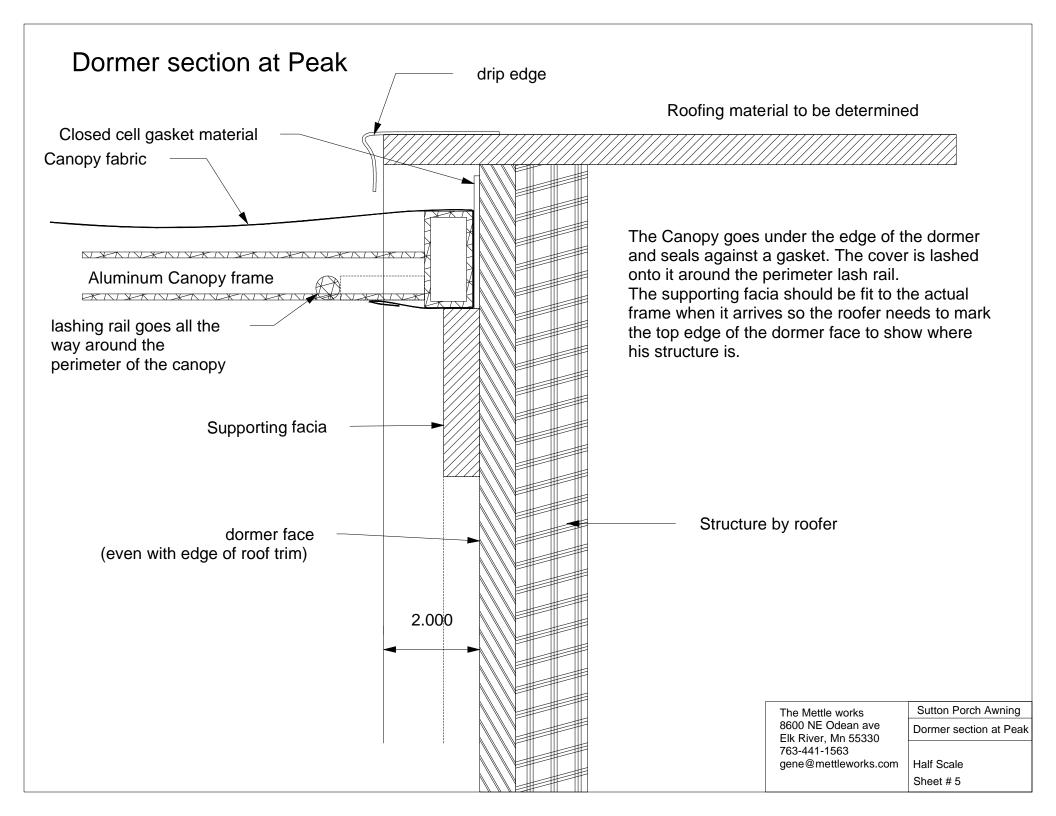
The facia is the curved trim piece below the edge of the roof.

Roof Work

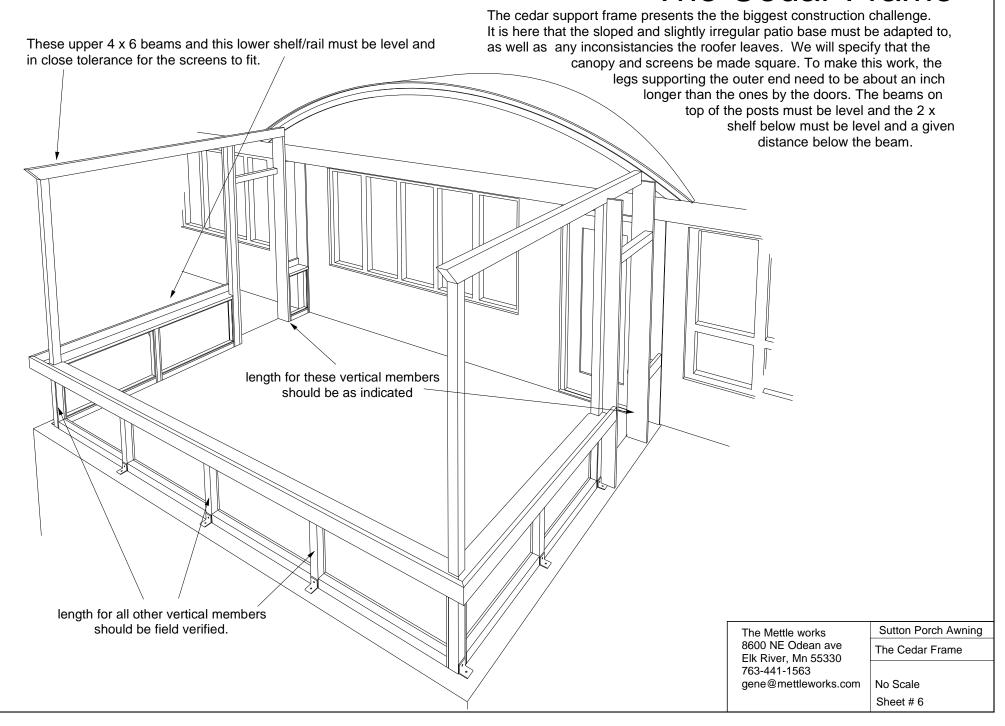
The gutters should be installed in the roof edge and a leg built oo catch the water at the ends of the awning and carry the water out beyond the deck area.

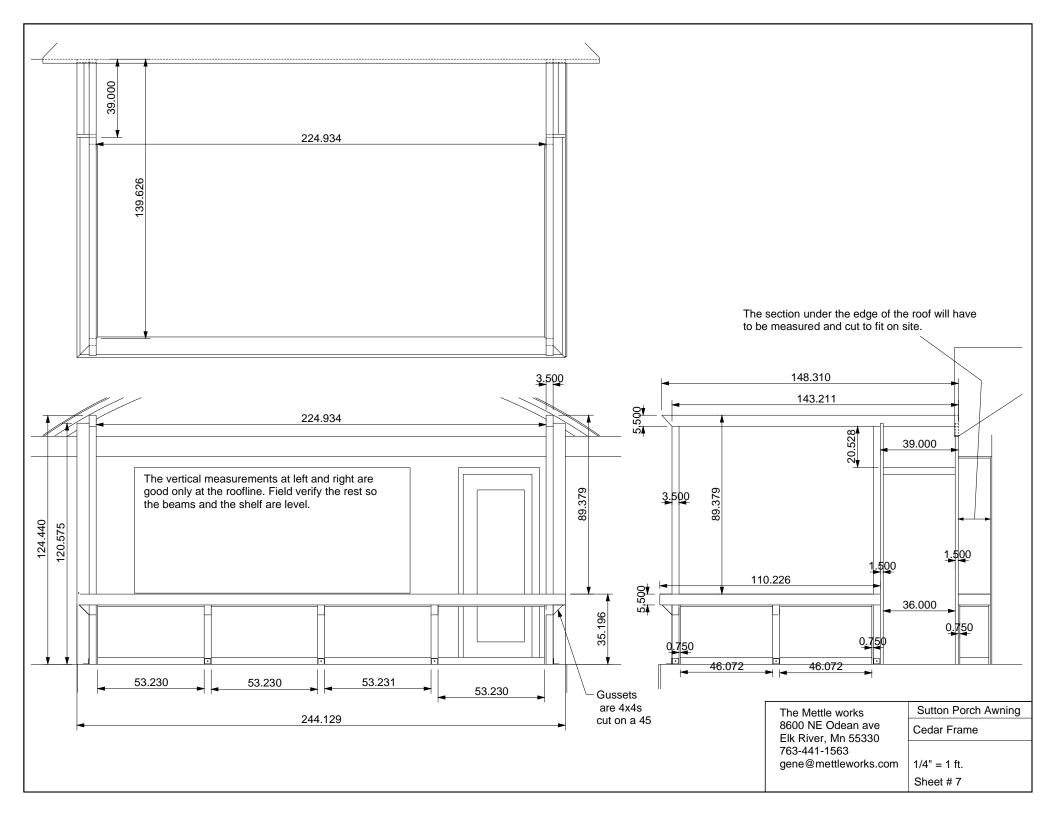
A strap can be bolted to the aluminum arch members as needed. I leave the roofing details to the roofer. Save for the fact we need a short drip edge around the dormer face. (see sheet 5) Dormer surface to match roof edge. Facia supports the canopy edge. Sutton Porch Awning The Mettle works 8600 NE Odean ave Roof work overview Elk River, Mn 55330 763-441-1563 gene@mettleworks.com No Scale Sheet #3

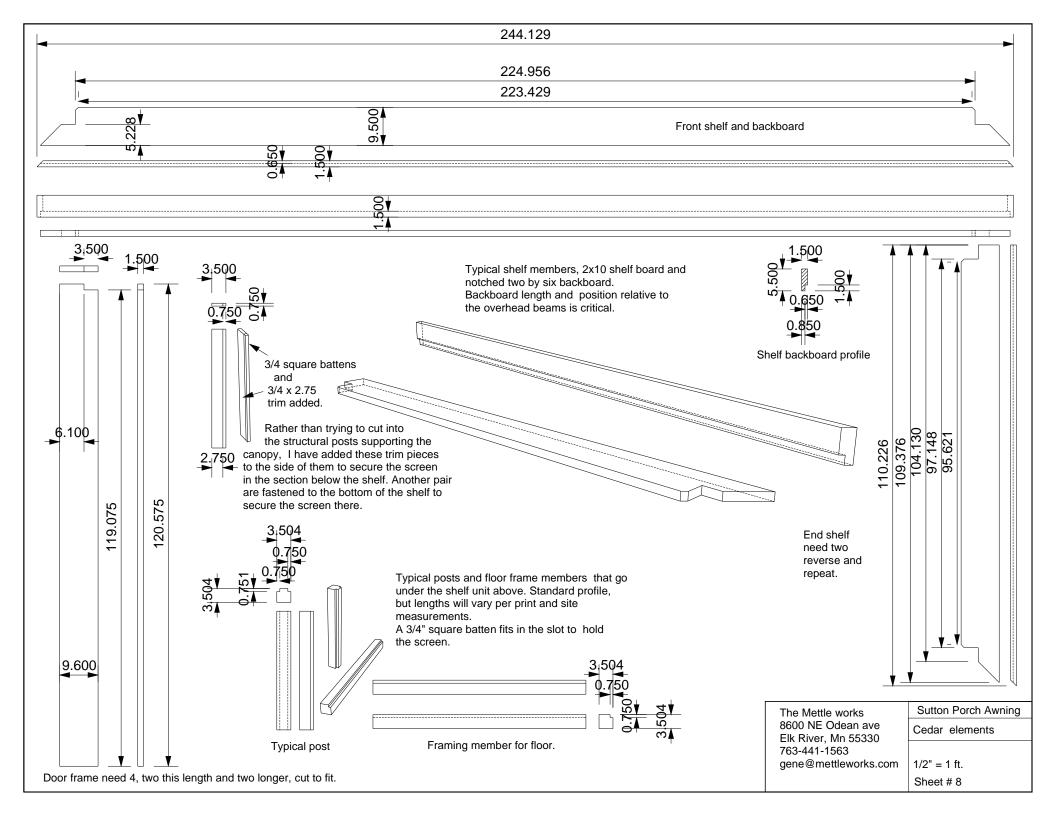






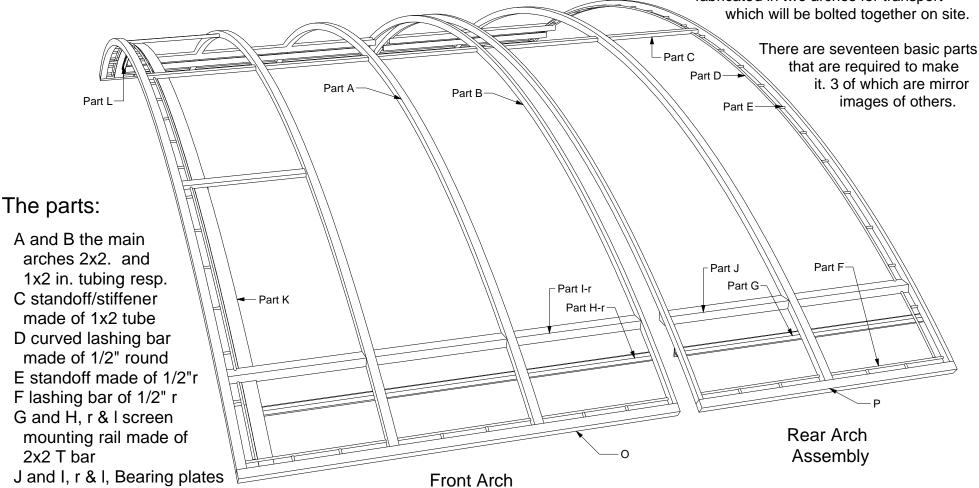








The canopy frame is fabricated of aluminum tube, round and flat bar, T bar and a proprietary design channel extrusion called Staplestitch which we are using to frame the screens. The canopy is fabricated in two arches for transport



Assembly

K mosquito seal seat 1/8 x 3"

made of 2x3" tube

which sit on the Cedar beams

L Top screen mounting channel for front 4 screen panels.

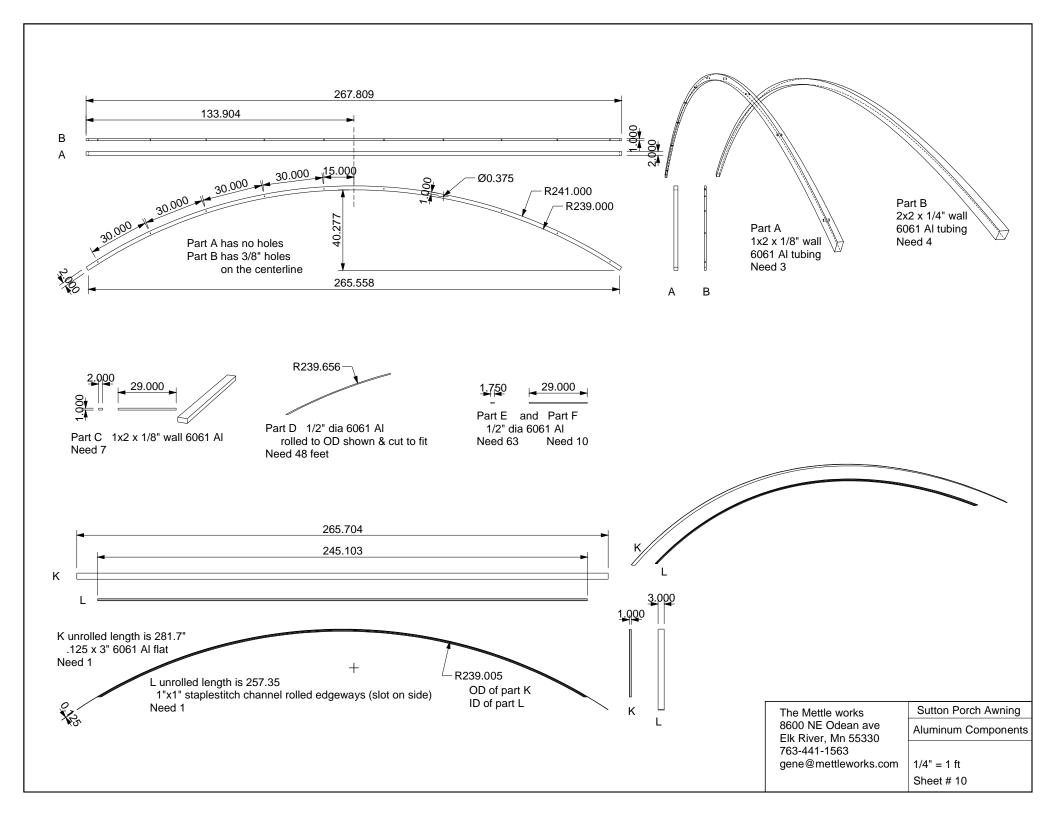
M and Nr & I Screen channel brackets hidden under part K in drawing.

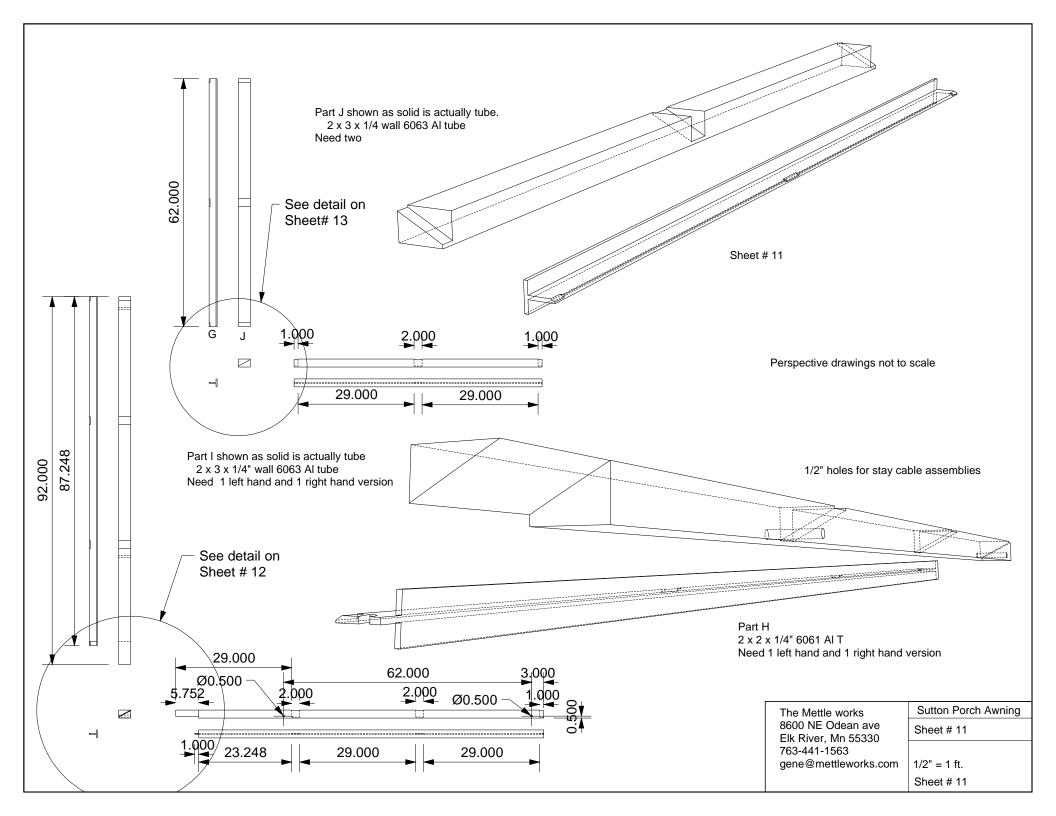
O Lateral edge of front arch section

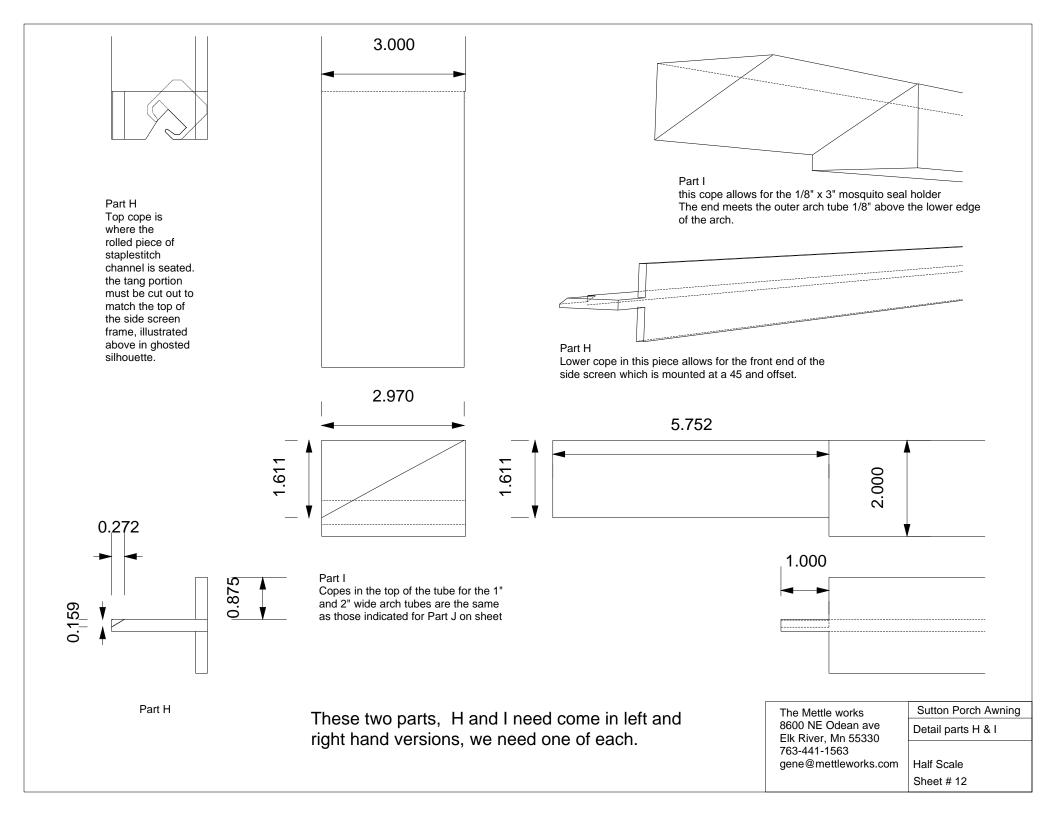
P Lateral edge of rear arch section

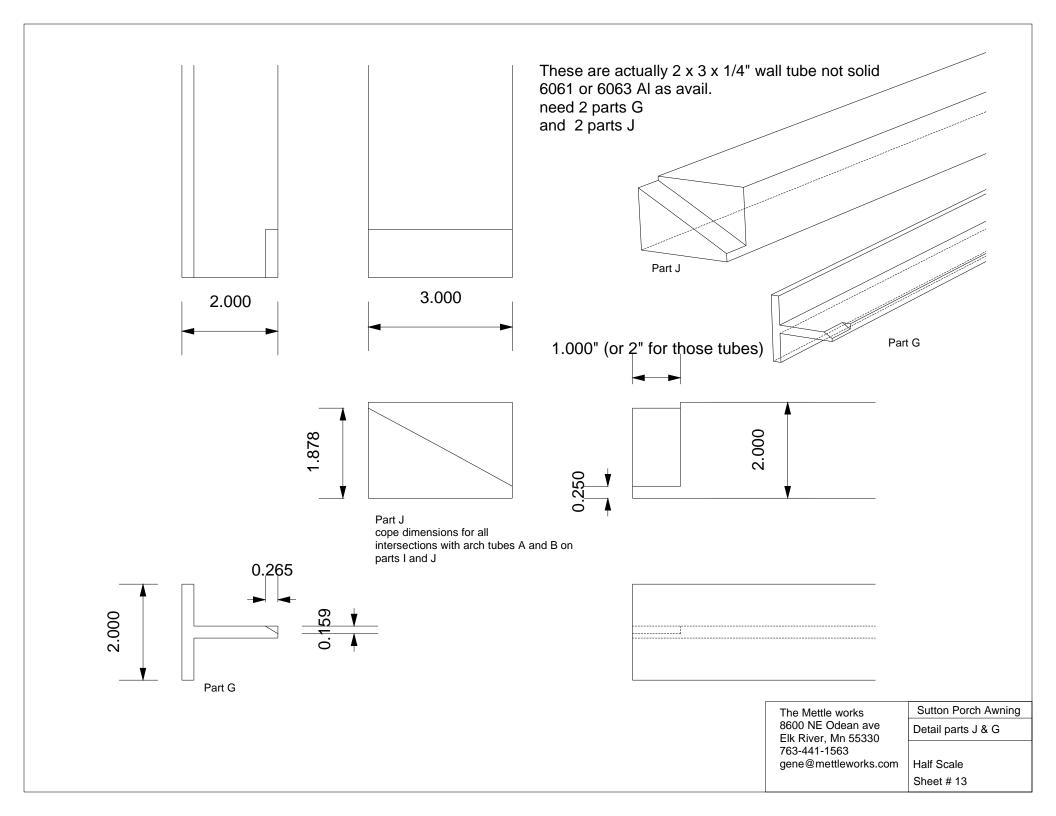
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Aluminum Frame

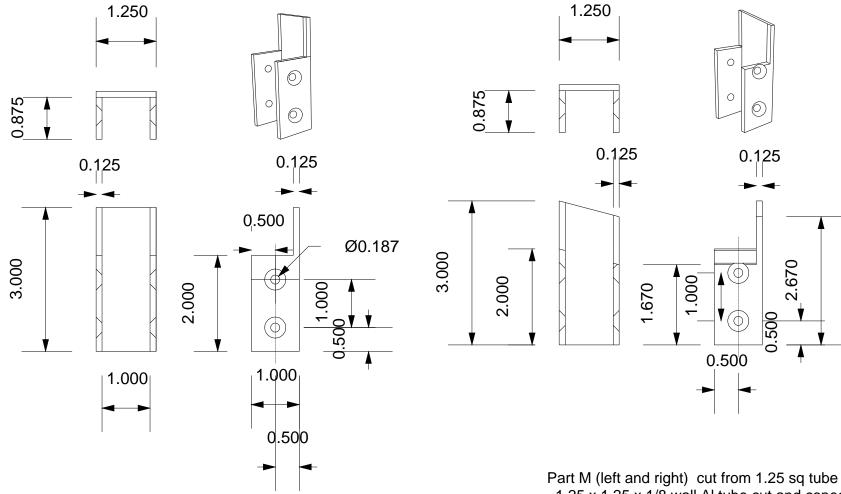
No Scale Sheet # 9











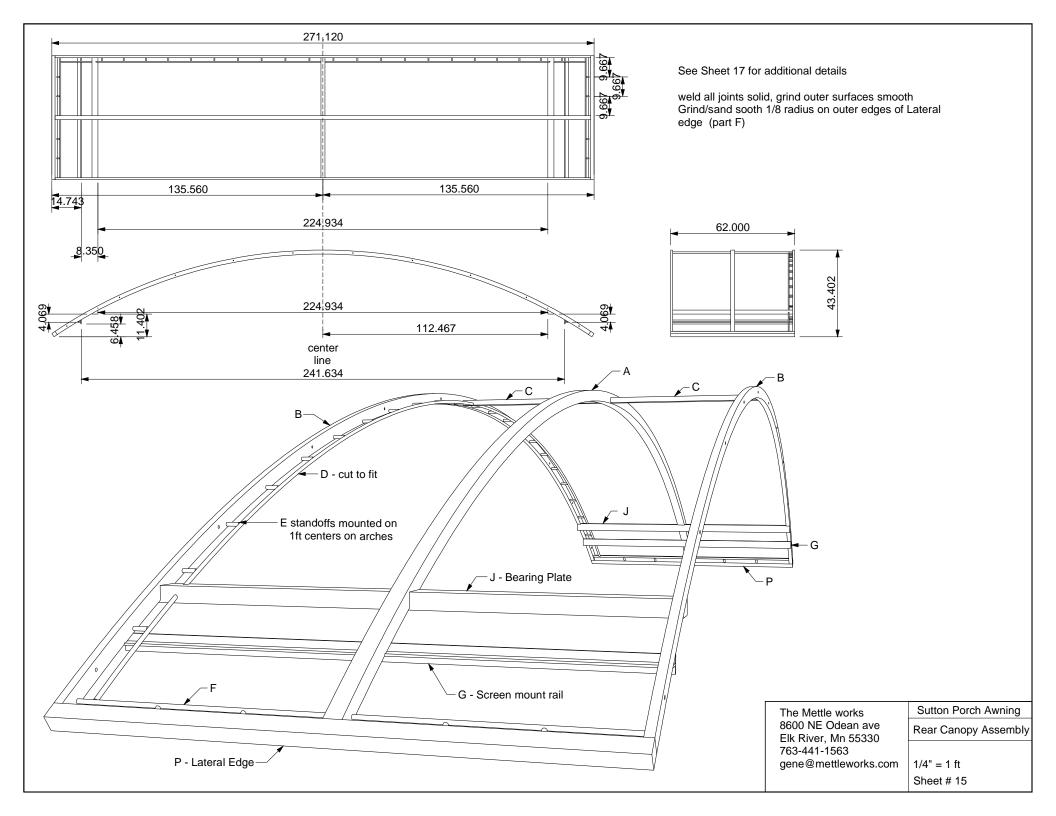
Part N cut from 1.25 sq tube 1.25 x 1.25 x 1/8 wall Al tube cut and coped Need 4 (one for the front canopy arch and 3 for the bottom of the front screen)

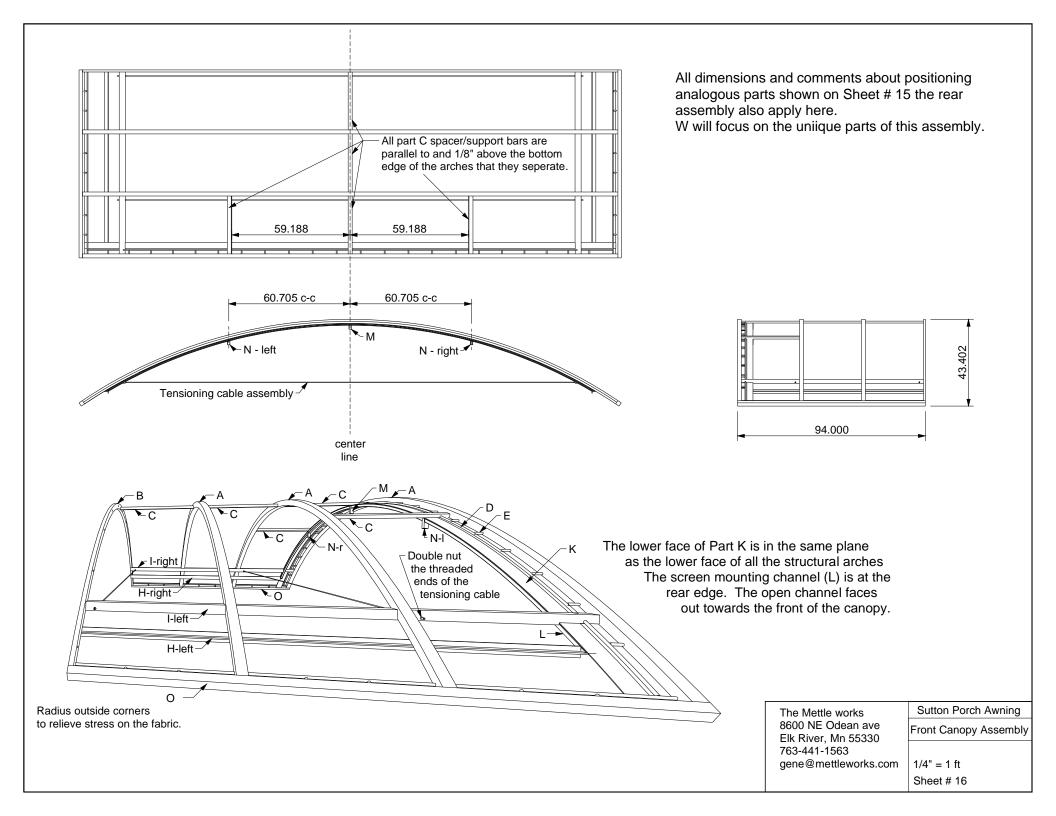
Part M (left and right) cut from 1.25 sq tube 1.25 x 1.25 x 1/8 wall Al tube cut and coped Need 2 (one left and one right)

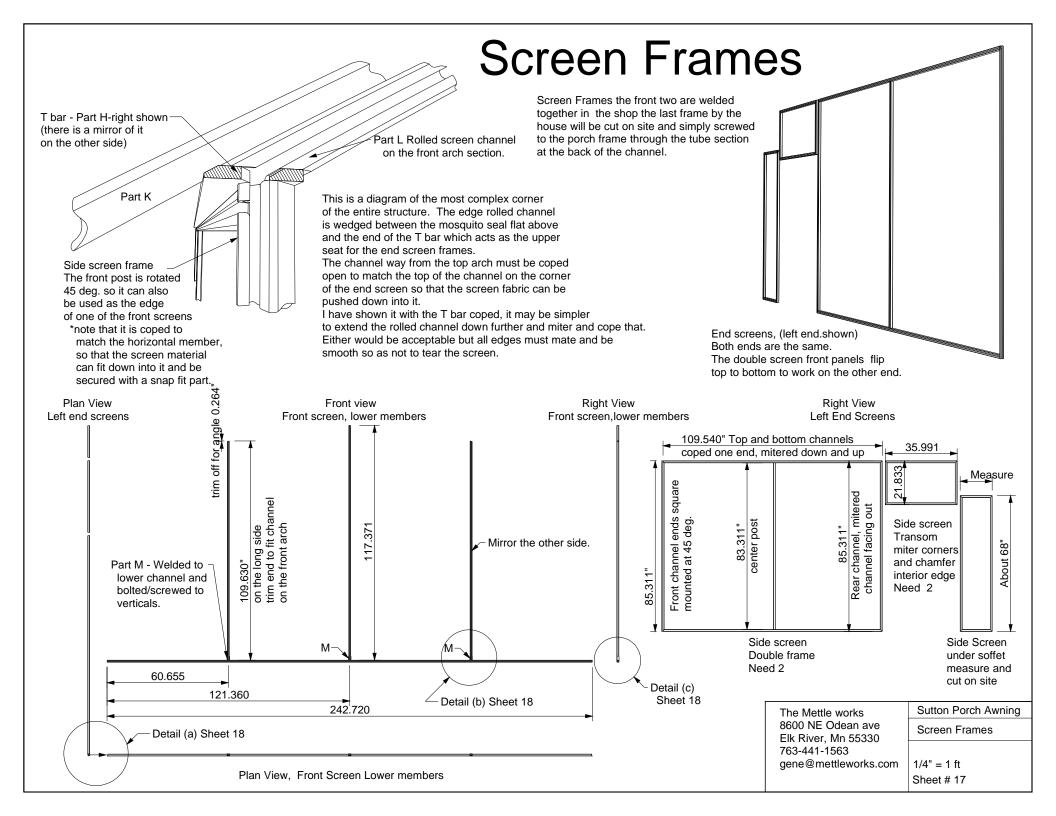
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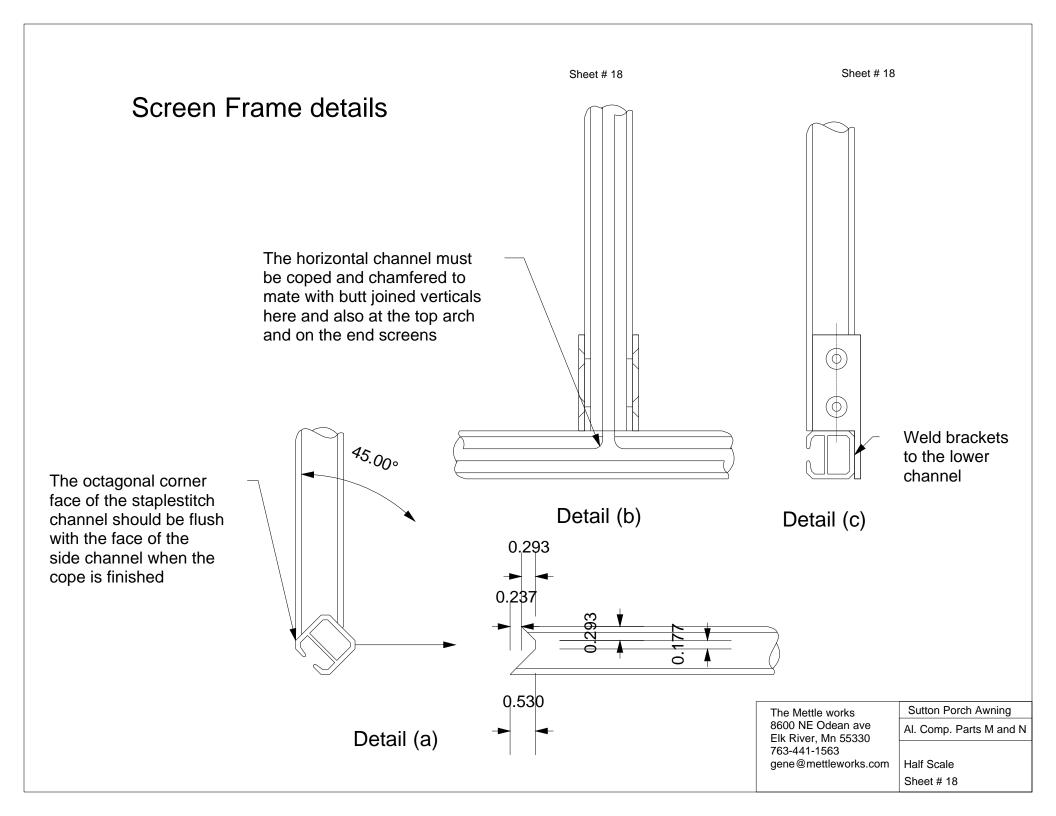
Al. Comp. Parts M and N

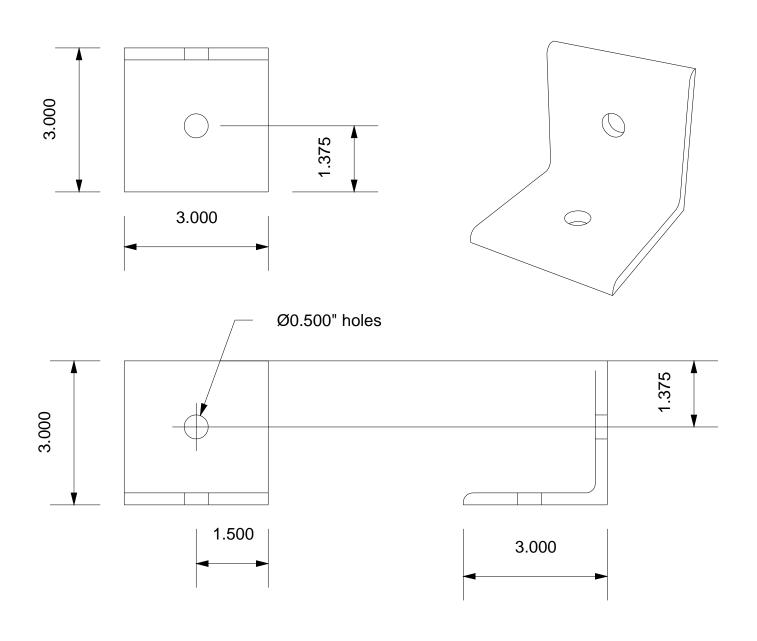
Half Scale Sheet # 14











Stainless Steel anchor bracket material 3"x3"x1/4" 304 Stainless angle NEED: 9 The Mettle works 8600 NE Odean ave Elk River, Mn 55330 763-441-1563 gene@mettleworks.com Sutton Porch Awning
Anchor Bracket

Half Scale Sheet # 19