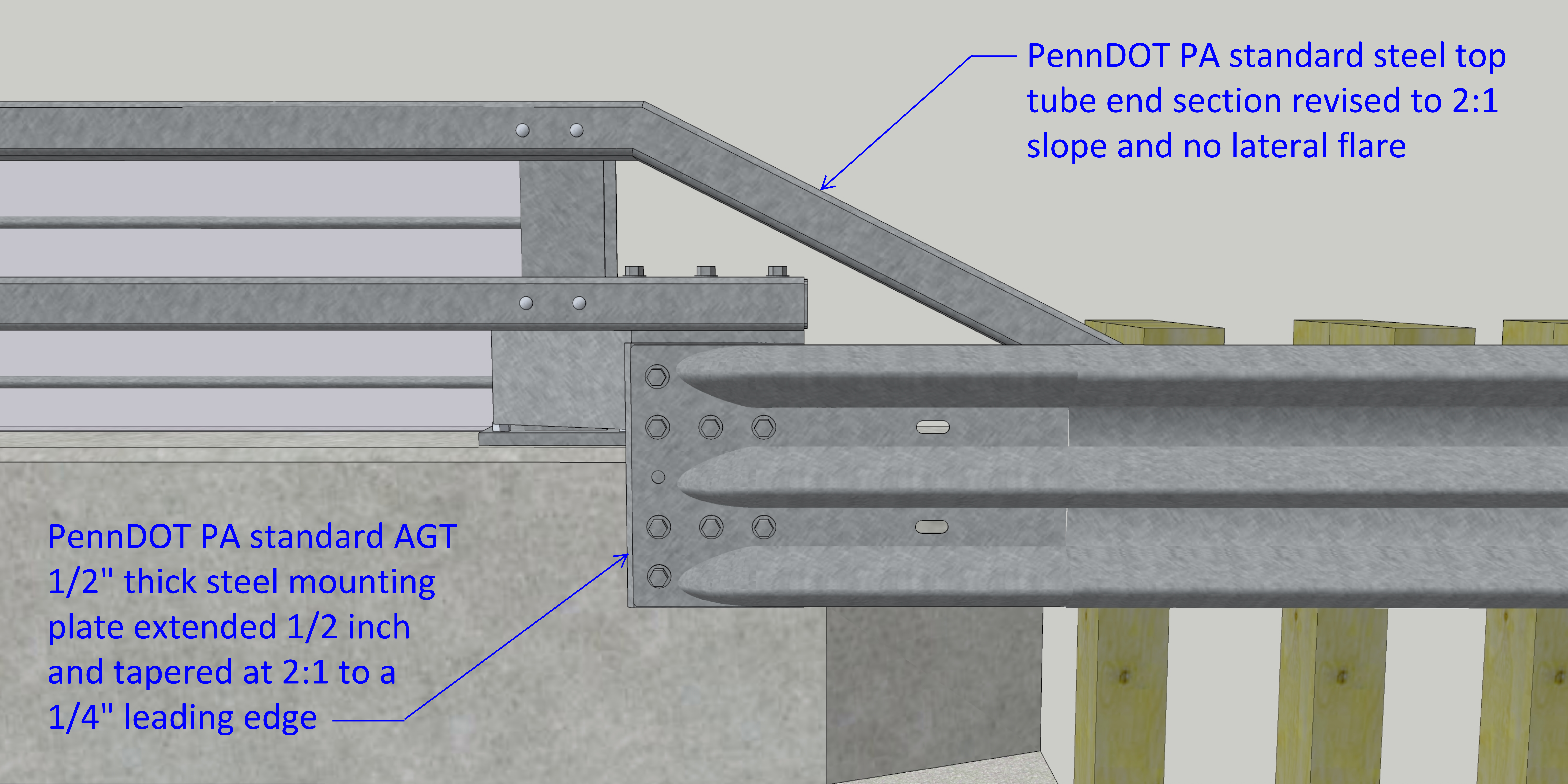
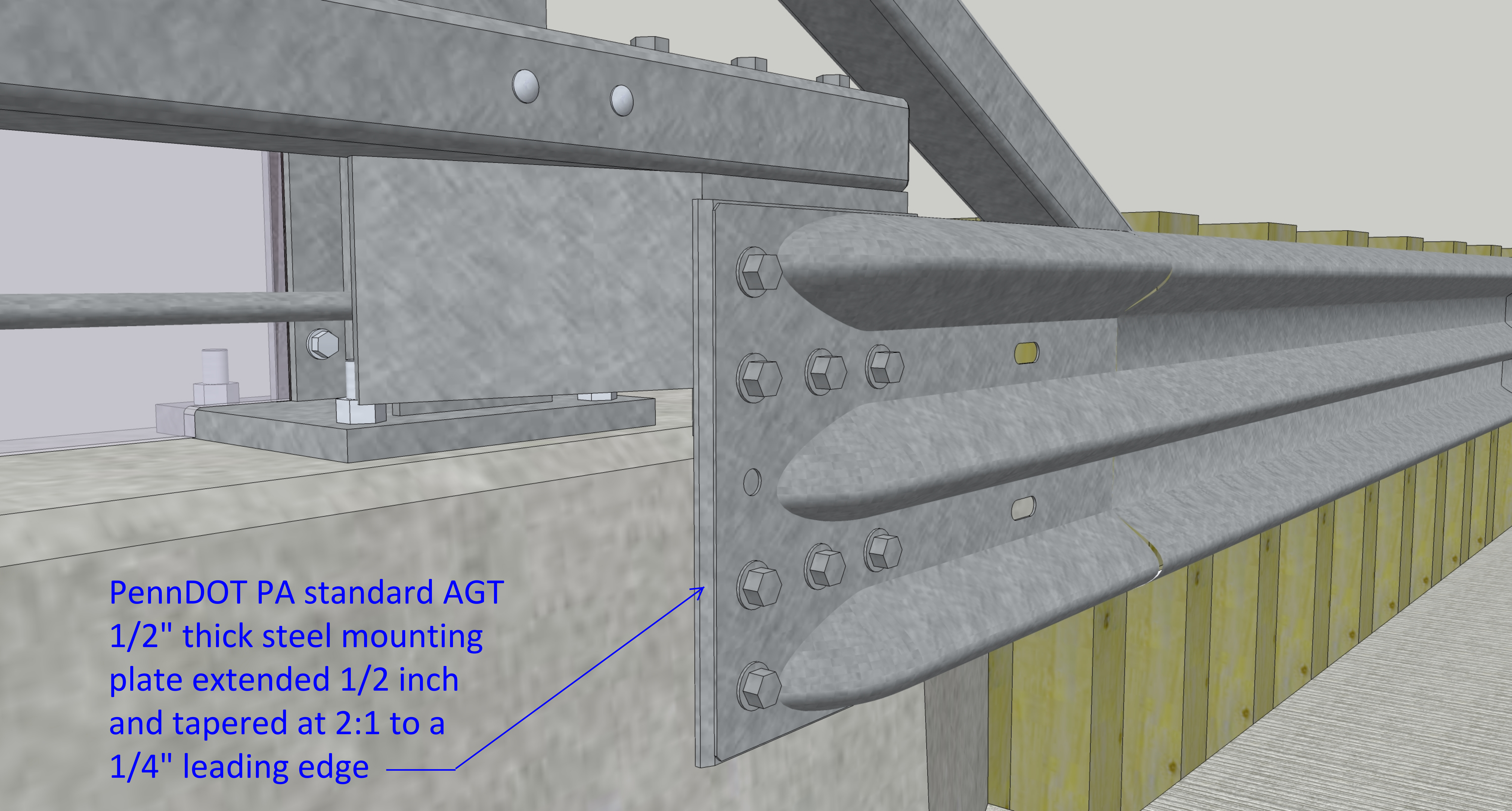




PennDOT PA standard steel top
tube end section revised to 2:1
slope and no lateral flare

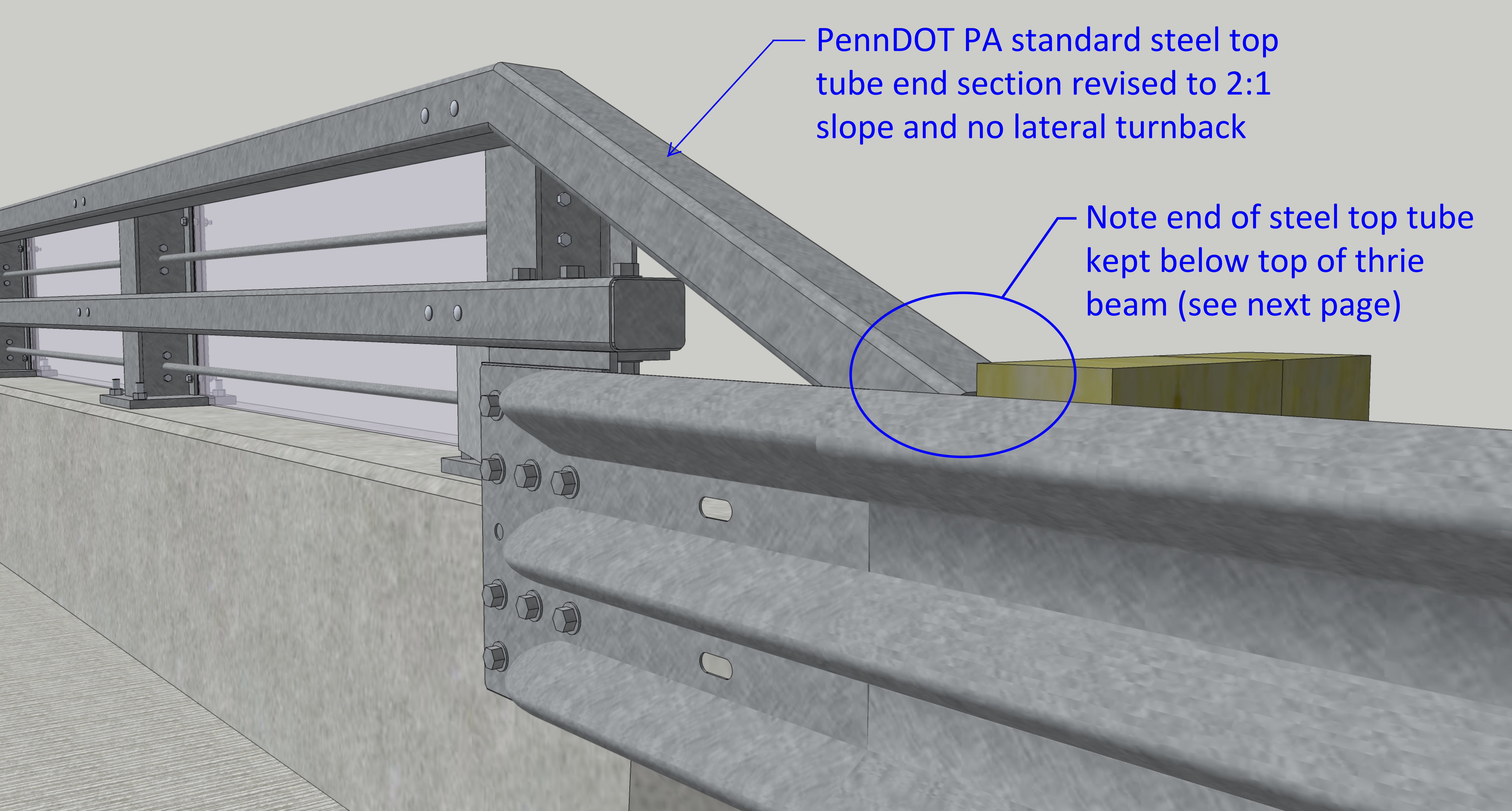
PennDOT PA standard AGT
1/2" thick steel mounting
plate extended 1/2 inch
and tapered at 2:1 to a
1/4" leading edge

Proposed PennDOT PA AGT Connection Detail and End Section Modifications 06/16/2022



A 3D CAD rendering of a steel guardrail assembly. The assembly consists of a vertical mounting plate, four horizontal W-beam rails, and a base plate. The mounting plate is bolted to the base plate and has a tapered leading edge. The rails are bolted to the mounting plate. The base plate is bolted to a concrete foundation. The assembly is shown in a perspective view, highlighting the structural details and the taper of the mounting plate.

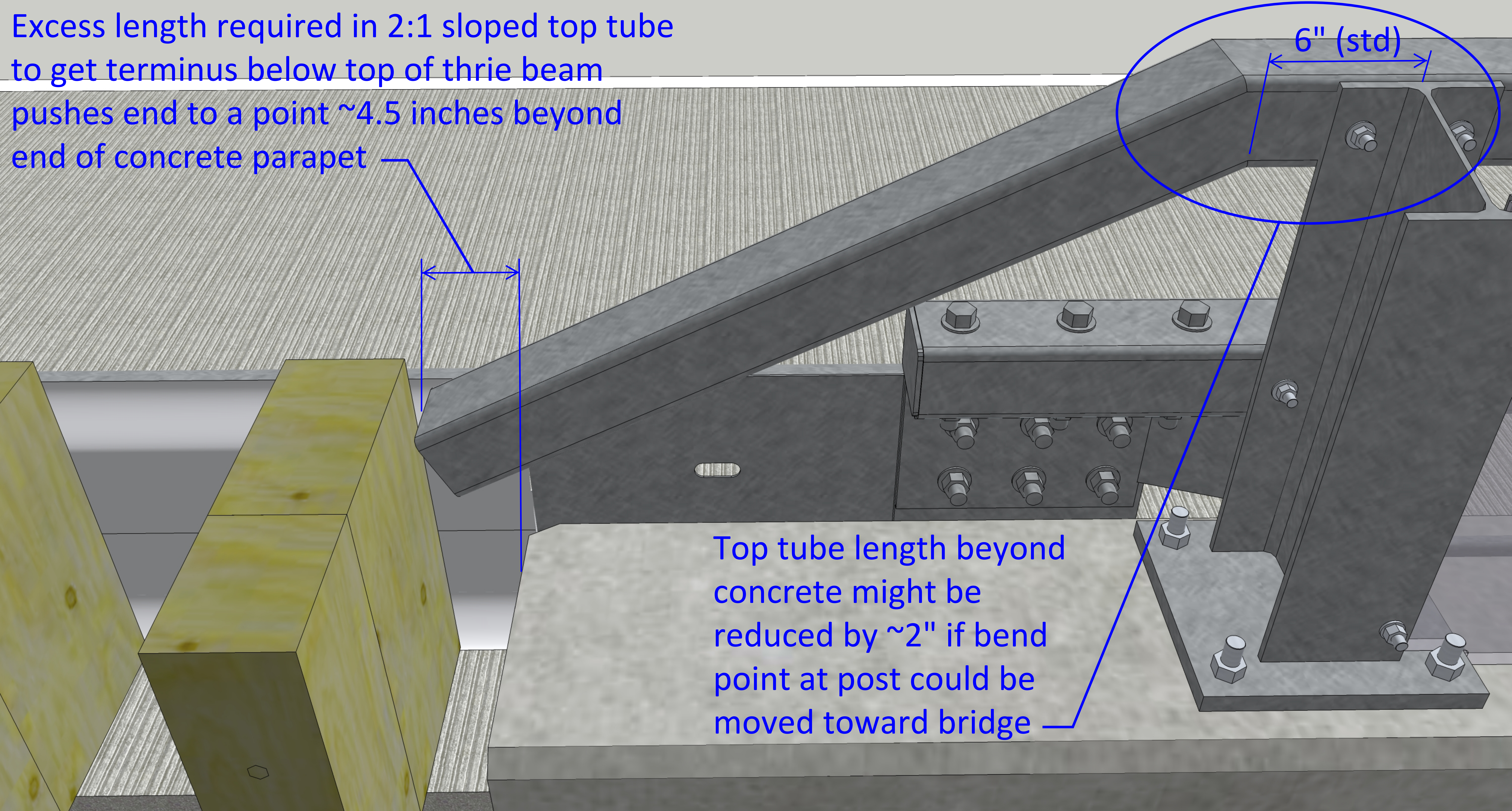
PennDOT PA standard AGT
1/2" thick steel mounting
plate extended 1/2 inch
and tapered at 2:1 to a
1/4" leading edge



PennDOT PA standard steel top
tube end section revised to 2:1
slope and no lateral turnback

Note end of steel top tube
kept below top of thrie
beam (see next page)

Excess length required in 2:1 sloped top tube
to get terminus below top of thrie beam
pushes end to a point ~4.5 inches beyond
end of concrete parapet



Top tube length beyond
concrete might be
reduced by ~2" if bend
point at post could be
moved toward bridge