

lead brick array 6 wide x 24 high (max) (1600kg); mount to either seismic stand, as is, or to work platform (make slightly wider)

Cross section of energy plane gas piping and shielding 7/14/12, D. Shuman

lead plug here if port not used, otherwise add bricks shown in green

shielding required (circular outlines 25cm radius))

manifold plate for (fire) pressure relief valve and gas flow inlet line

HV cable must make bend here

fast vent solenoid valve (not for fire pressure relief)

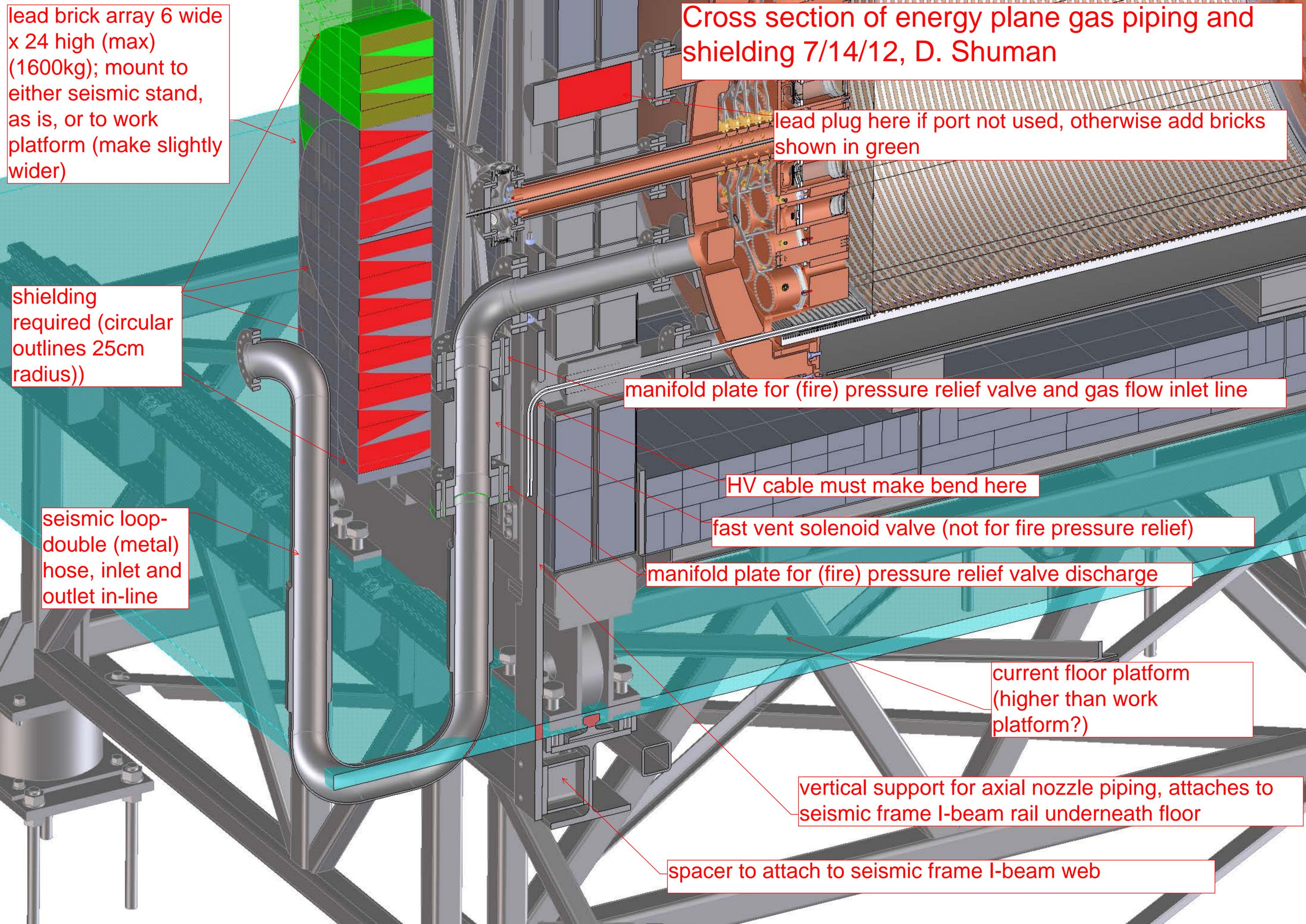
seismic loop-double (metal) hose, inlet and outlet in-line

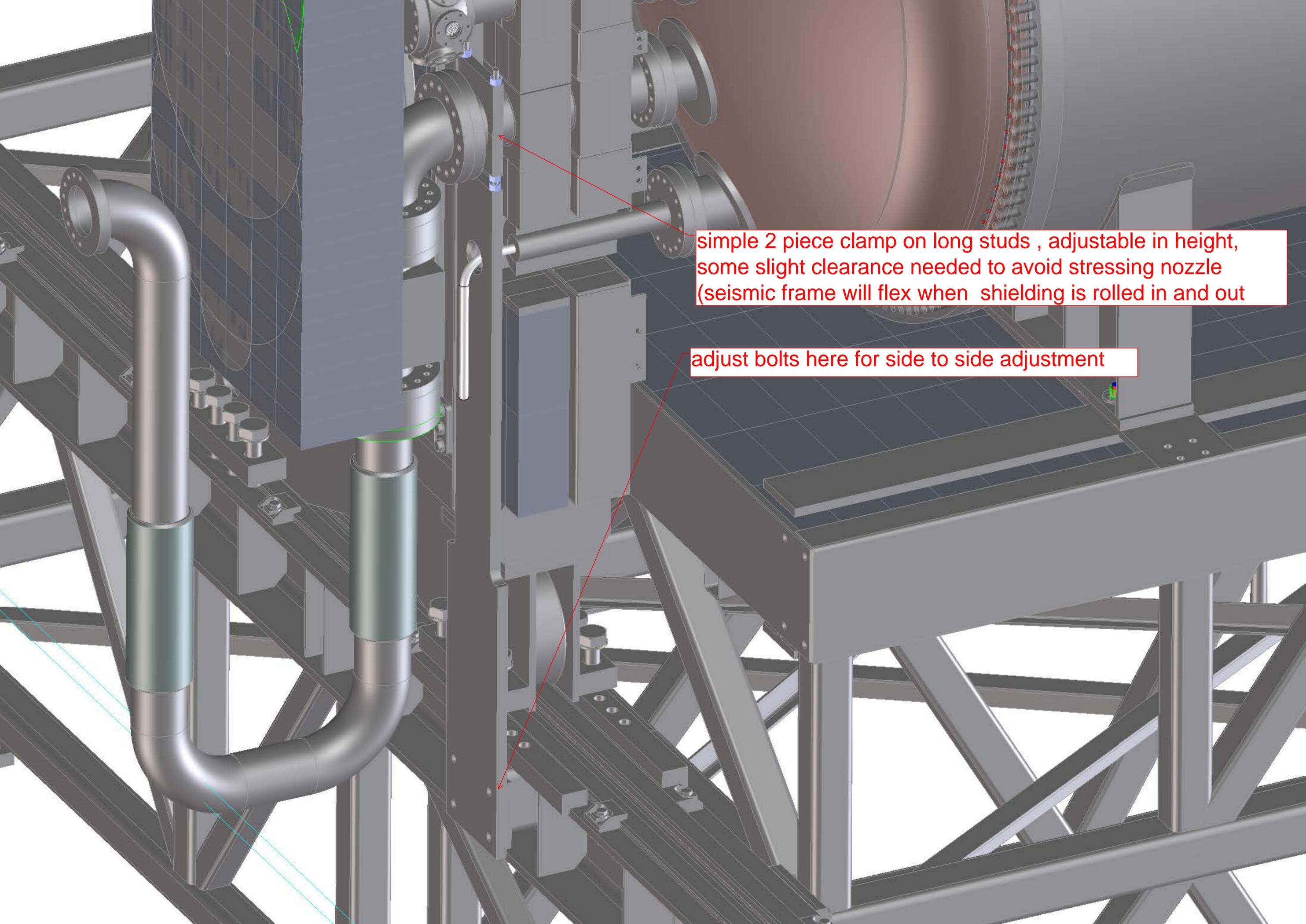
manifold plate for (fire) pressure relief valve discharge

current floor platform (higher than work platform?)

vertical support for axial nozzle piping, attaches to seismic frame I-beam rail underneath floor

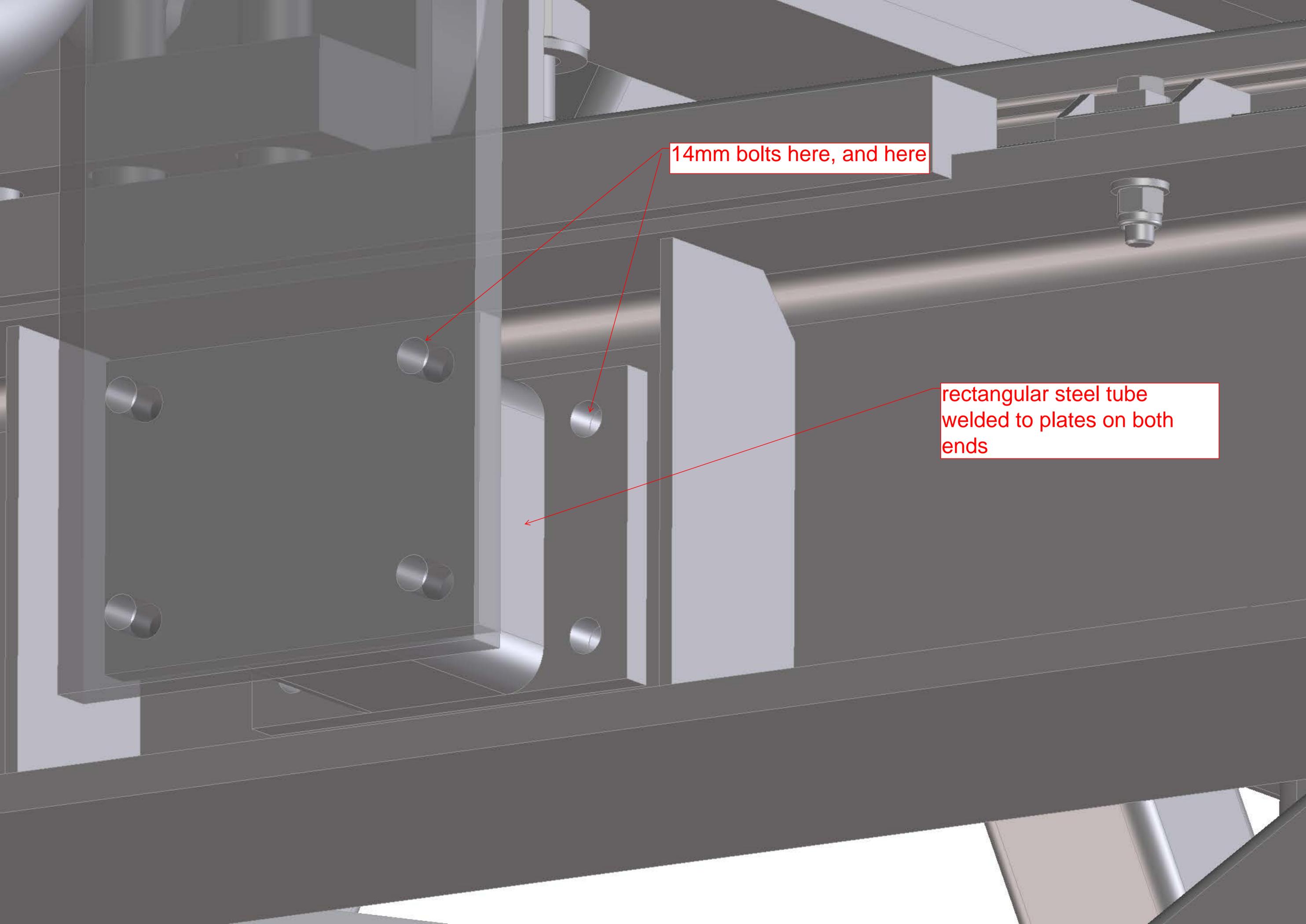
spacer to attach to seismic frame I-beam web



A 3D CAD model of a complex mechanical assembly, likely a nozzle support structure. The model is rendered in a light gray color. It features a central vertical assembly with various pipes, flanges, and structural supports. A large, curved pipe is visible on the left side. The assembly is mounted on a base structure with a grid pattern. Two callout boxes with red borders and red text provide instructions. The first callout box points to a vertical stud with a clamp. The second callout box points to a horizontal bolt on a lower structural member. The background is white.

simple 2 piece clamp on long studs , adjustable in height,
some slight clearance needed to avoid stressing nozzle
(seismic frame will flex when shielding is rolled in and out

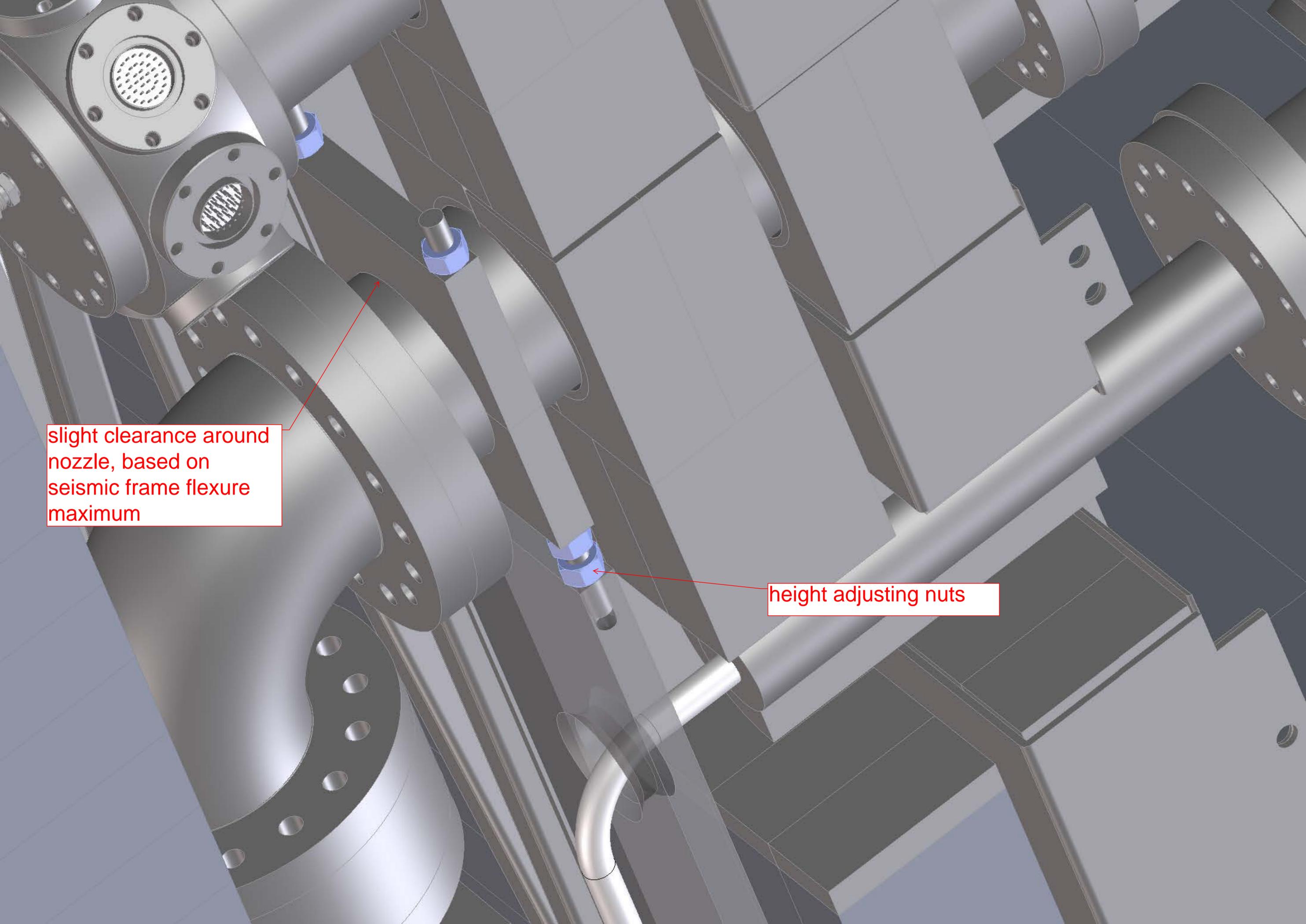
adjust bolts here for side to side adjustment



14mm bolts here, and here

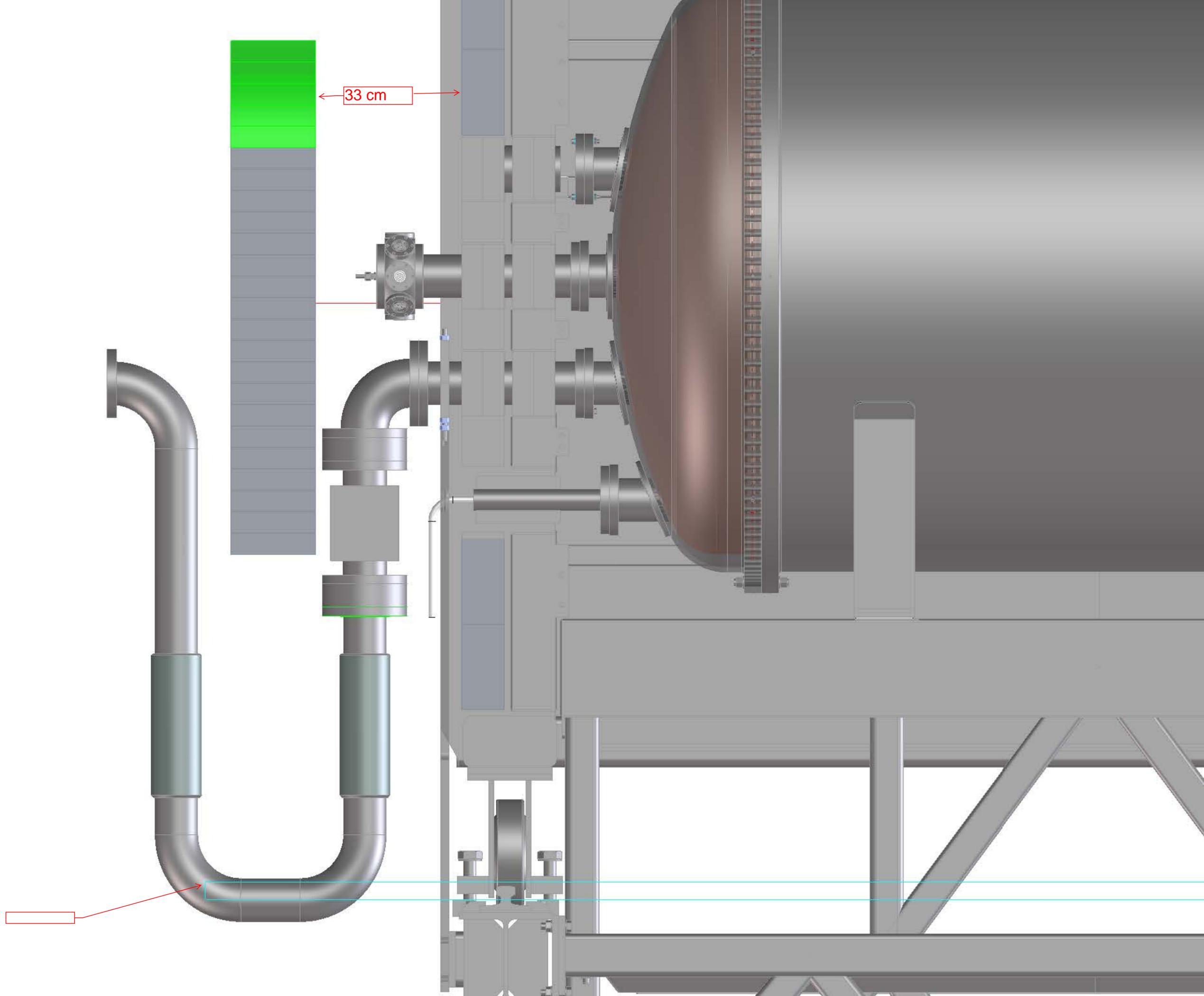
The image shows a 3D CAD model of a mechanical assembly. It features a central vertical rectangular steel tube. This tube is connected to a horizontal plate on the left side of the image. The connection is made using four 14mm bolts, two on each side of the tube. The tube is also welded to plates at both ends. The assembly is mounted on a larger structure, with a bolt visible on the right side. The model is rendered in a dark grey color with some highlights to show the geometry.

rectangular steel tube
welded to plates on both
ends



slight clearance around
nozzle, based on
seismic frame flexure
maximum

height adjusting nuts



33 cm