

Forces in the Bolt due to the Wall Load

Shear:

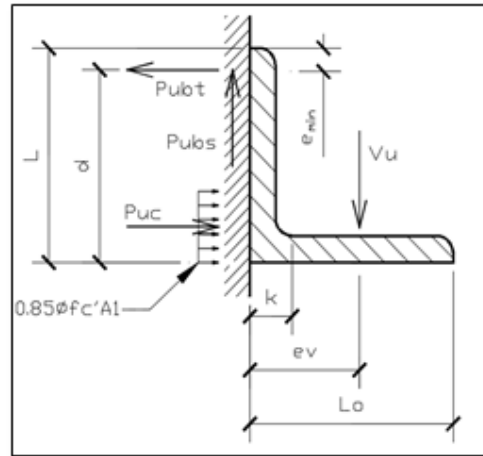
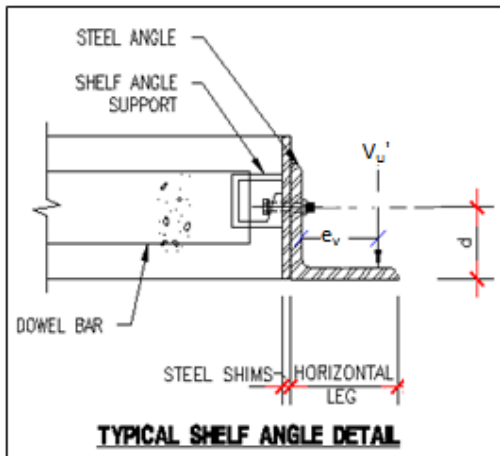
$V = 2.00$ kips

Tension:

Eccentricity from outside face of vertical leg to Wall Load = 1.125 in
 Total Gravity Moment per Bolt = 2.24 k*in
 Moment Arm (inside of horizontal leg to centerline of bolt) = 2.75 in
 $P_t = 0.82$ k

Least Conservative

FBD:



$\% \Delta = (1.42 - 0.82) / 1.42 = 42\%$

Forces in the Bolt due to the Wall Load

Shear:

$V = 2.00$ kips

Tension:

Eccentricity from outside face of vertical leg to Wall Load = 1.6875 in
 Total Gravity Moment per Bolt = 3.37 k*in
 Moment Arm (inside of horizontal leg to centerline of bolt) = 2.375 in
 $P_t = 1.42$ k

Most Conservative

FBD:

