

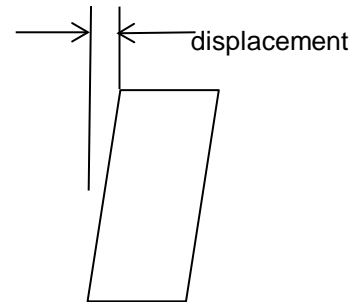


Project No.	Sheet No.	Rev.
K1914	29	

Calculation Sheet

Project 11 PAR	Made by RA	Checked by
Element Stability of existng boundary walls	Date Oct'18	Date

The North and south boundary walls are leaning inwards.
and are no longer vertical



Maximum displacement on the south boundary wall = 68 mm

Maximum displacement on the north boundary wall = 130 mm

For a free standing wall to be stable the centre of gravity of the mass of the wall must lie within the kern.

width of wall = 9.00 inches

length of kern = 3.00 inches

= 76.20 mm

Therefore maximum allowable out of plumb before the wall goes into tension = 38.10 mm

This maximum is for the dead weight of the wall only. If wind forces are taken into account then the maximum allowable out of plumb is practically zero

Therefore both walls have displacements greater than that allowed for a 9 inch wall and must be rebuilt.