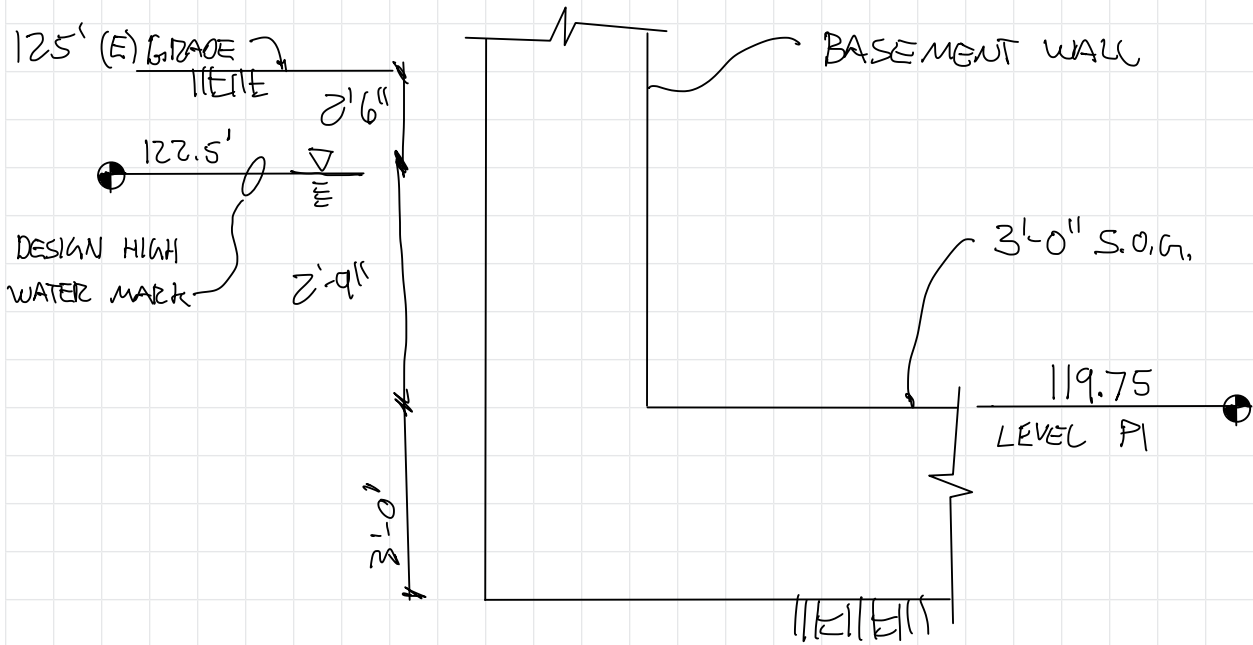


CHECK BUOYANCY



SECTION

BUOYANCY FORCE

$$F_b = wAH = (62.4 \text{ PCF})(1')(1')(5.75') = 360 \text{ PSF}$$

RESISTING: 3' S.O.G. DL = 450 PSF

1' STRUCT. SLAB 150 PSF

14" P.T. SLAB 175 PSF

$$H_u = (1.6)(360 \text{ PSF}) = 576 \text{ PSF}$$

$$R_u = (0.9)(450 + 150 + 175) = 698 \text{ PSF} > H_u$$

✓ OK

∴ NO NET UPLIFT

