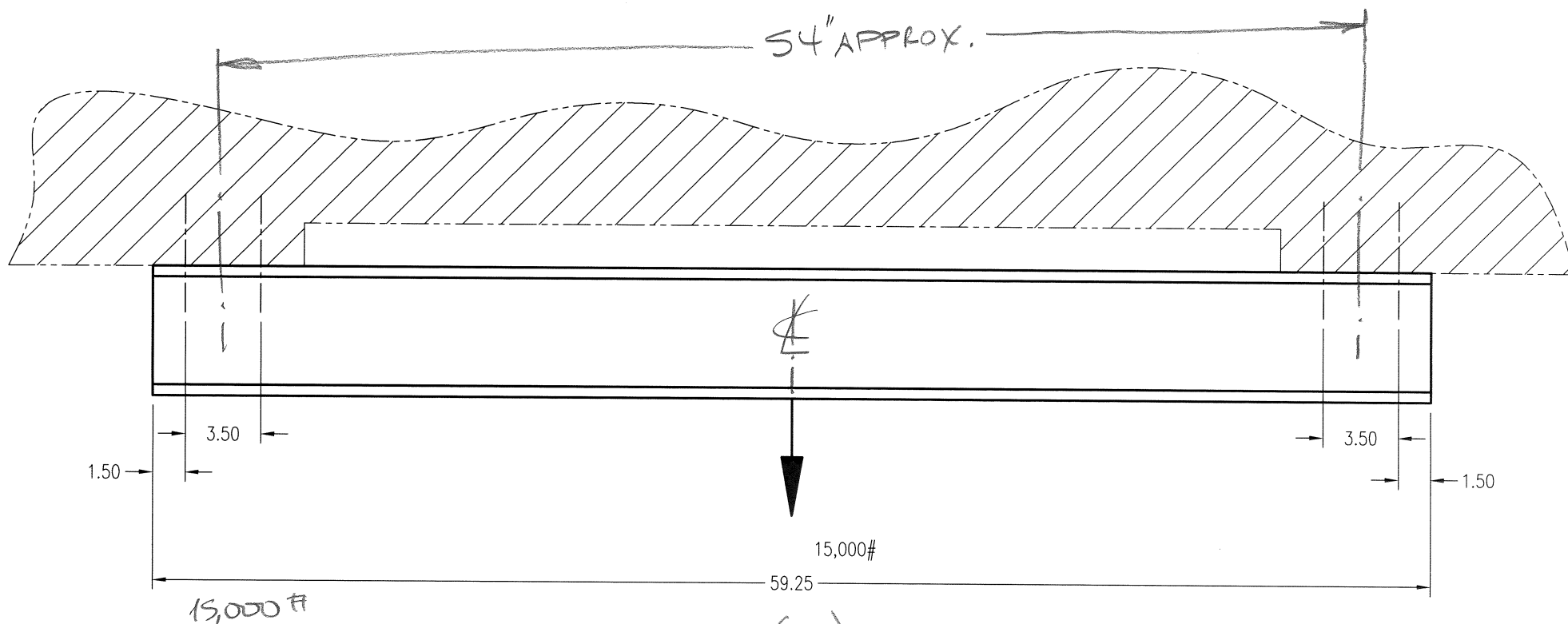


PER: rb 1957

Pg. 1

JAN 26 2016

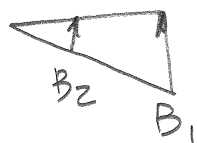
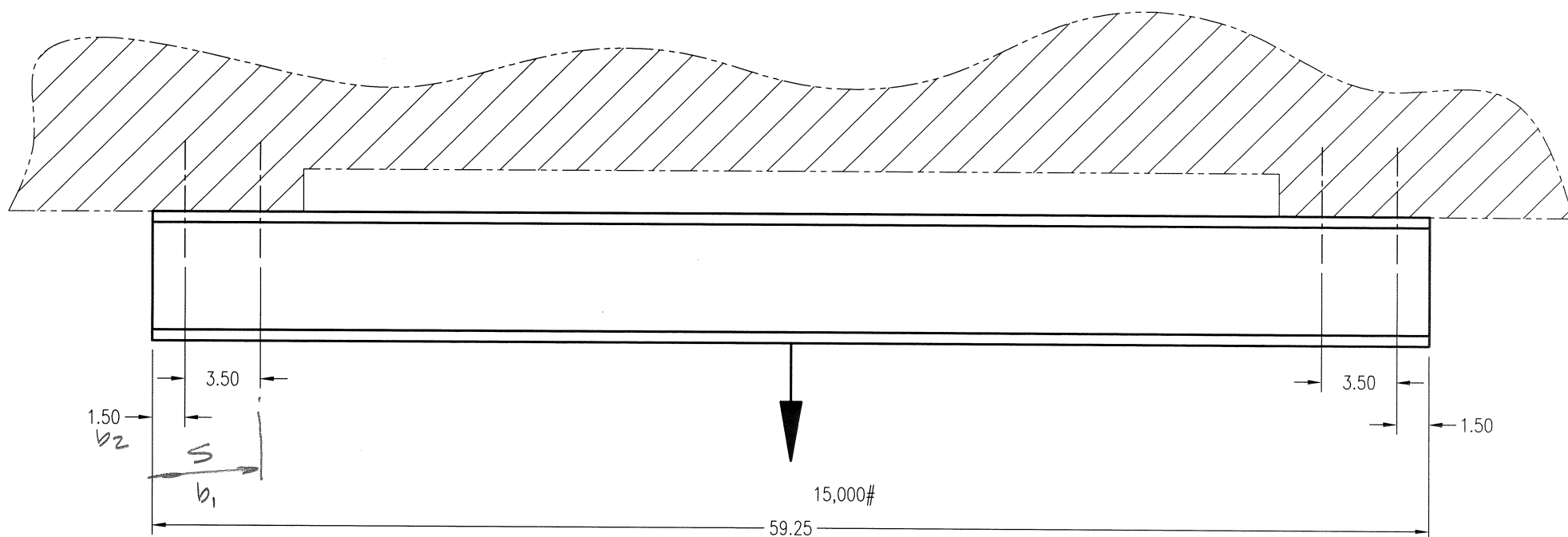


$$M = \frac{PL}{8} = \frac{15,000(54)}{8} = 101,250 \text{ IN-LB} \sim \text{COUPLE AT } \phi \text{ OF BOLT PATTN.}$$

$$P_{\text{BOLT}} = \frac{M}{(2)3.50} + \frac{\text{BM. WGT.}}{8} = \frac{101,250}{7} + \frac{125}{8} = 14,464 + 16 = 14,480\#$$

JAN 26 2015

$$M = \frac{PL}{8} = \frac{15,000(59.25)}{8} = 111,094 \text{ IN-LB}$$



$$B_1 = \frac{M b_1}{(b_1)^2 + (b_2)^2} = \frac{111,094(s)}{(s)^2 + (1.50)^2} = \frac{555,470}{27.25} = 20,384 \# \text{ (PAIR OF BOLTS)}$$

$$B_1 (\text{ONE BOLT}) = \frac{20,384}{2} + \frac{(B_m) 125 \# + 15,000}{8} = 10,192 \# + 1891 \# = \underline{\underline{12,083 \#}}$$

$$B_2 = \left(\frac{1.5}{s}\right) 10,192 + 1891 = 3058 + 1891 = \underline{\underline{4949 \#}}$$