



WEIGHT OF ASPHALT = $145 \text{ PCF} \times (2.5/12) \text{ FT} \times 6 \text{ FT} = 181 \text{ LB/FT}$
 WEIGHT OF ROCK = $137 \text{ PCF} \times (6/12) \text{ FT} \times 6 \text{ FT} = 411 \text{ LB/FT}$
 WEIGHT SOIL = $(125 \text{ PCF} \times 1.16 \text{ FT} \times 6 \text{ FT}) + ((125 - 62.4) \text{ PCF} \times 0.60 \text{ FT} \times 6 \text{ FT}) = 1095 \text{ LB/FT}$
 10 GAGE, 72" Ø, 3"x1" CORRUGATED STEEL PIPE WEIGHS 140 LB/FT
 TOTAL WEIGHT RESISTING BUOYANCY = $181 + 411 + 1095 + 140 \text{ LB/FT} = 1827 \text{ LB/FT}$

WEIGHT WATER DISPLACED = $28.3 \text{ SF} \times 62.4 \text{ PCF} = 1764 \text{ LB/FT}$

WEIGHT OF WATER < WEIGHT RESISTING



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PIERCE COLLEGE PUYALLUP
 PARKING
 BUOYANCY CALCS

JOB NO:
 2200718.10
 DATE: JAN 2023

EX-1