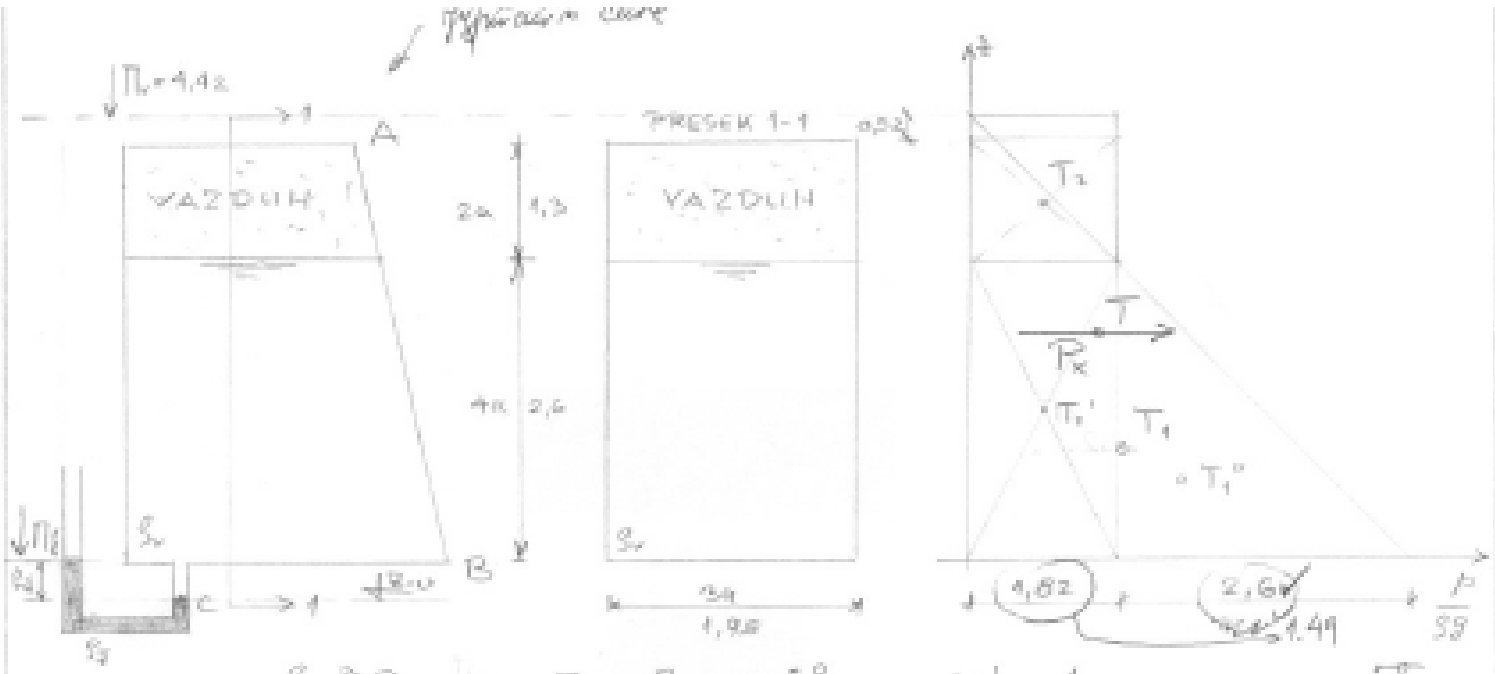

$a = \frac{2a+3}{5}$ m

$a = 0{,}65$ m

$S_{rel} \approx 0$

$S_v = 1000$ kg/m³

$S_{\check{z}} = 13\,600$ kg/m³

$h_{\check{z}} = \frac{a}{2}$ $\quad \Pi_{\check{z}} = 0{,}325$ m

$h_{\check{z}} = 0{,}325$ m

$p_c = S_{\check{z}} \cdot g \left(\Pi_{\check{z}} - z_c \right)$

$p_c = 43{,}36$ kPa ✓

$\Pi_v = \frac{p_c}{S_v \cdot g} + z_c$

$\Pi_v = 4{,}42$ m ✓

$z_{T_1}' = \frac{1}{2} 2{,}6 = 1{,}3$ m

$z_{T_1}'' = \frac{1}{3} 2{,}6 = 0{,}867$ m

$z_{T_2} = 2{,}64 \frac{1}{2} 1{,}3 = 3{,}25$ m

$\Omega_1' = 1{,}82 \times 2{,}6 = 4{,}732$ m²

$\Omega_1'' = 3{,}38$ m²

$\Omega_2 = 2{,}360$ m²

$z_{T_1} = \frac{z_{T_1}' \cdot \Omega_1' + z_{T_1}'' \cdot \Omega_1''}{\Omega_1' + \Omega_1''} = 1{,}12$ m

$P_{V_1} = S_v \cdot g \cdot L \cdot \Omega_1 = 155{,}178$ kN

$P_{V_2} = S_v \cdot g \cdot L \cdot \Omega_2 = 45{,}26$ kN

$P_x = P_{x_1} + P_{x_2} = 200{,}438$ kPa

$z_T = \frac{z_{T_1} \cdot \Omega_1 + z_{T_2} \cdot \Omega_2}{\Omega_1 + \Omega_2} = 2{,}07$ m