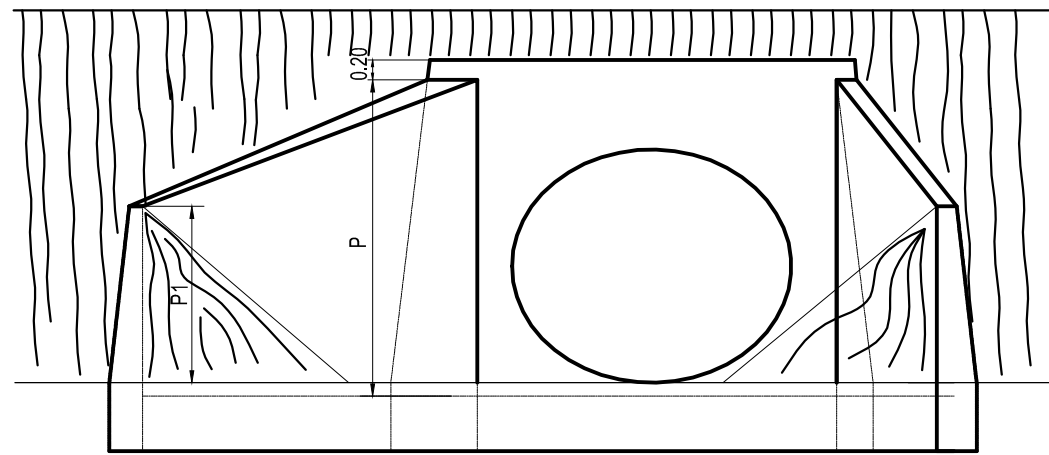
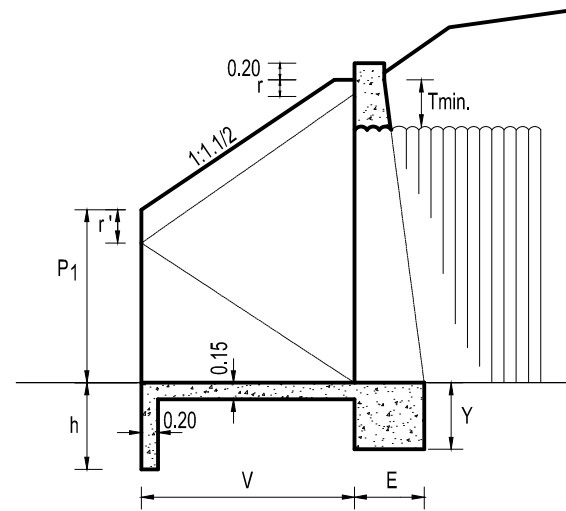


VISTA



CORTE



CONDICIONES

$$T.MIN. = \begin{cases} 0.40m & \text{para } \varnothing < 3.00m \\ 0.60m & \text{para } \varnothing > 3.00m \end{cases}$$

$$\alpha \leq 90^\circ$$

$$\text{Talud} = 1 : 1.1/2$$

$$r = 0.20m$$

$$r' = 0.34m$$

$$y \geq 0.50m$$

$$h \begin{cases} 0.50m & \text{aguas arriba} \\ 1.00m & \text{aguas abajo} \end{cases}$$

DATOS A FIJAR  
EN EL PROYECTO

- $\varnothing$
- Y
- h

CALCULO

ALAS

$$P = \varnothing + T.min.$$

$$P_1 = \frac{P-r}{2} + r$$

$$E = 0.30 + 0.15 P$$

$$E_r = 0.30 + 0.15 P_1$$

$$V = 0.75 (P-r)$$

ALA LARGA

$$Kl = \frac{V}{\text{Sen } \alpha / 2}$$

$$K'l = \frac{Kl - 0.30}{\text{Tan } \alpha / 2}$$

$$Zl = E - 0.15 P \text{ Cos } \alpha / 2$$

$$Rl = 0.15 P \text{ Sen } \alpha / 2$$

ALA CORTA

$$Kc = \frac{V}{\text{Cos } \alpha / 2}$$

$$K'c = Kc - 0.30 \text{ Tag } \alpha / 2$$

$$Zc = E - 0.15 P \text{ Sen } \alpha / 2$$

$$Rc = 0.15 P \text{ Cos } \alpha / 2$$

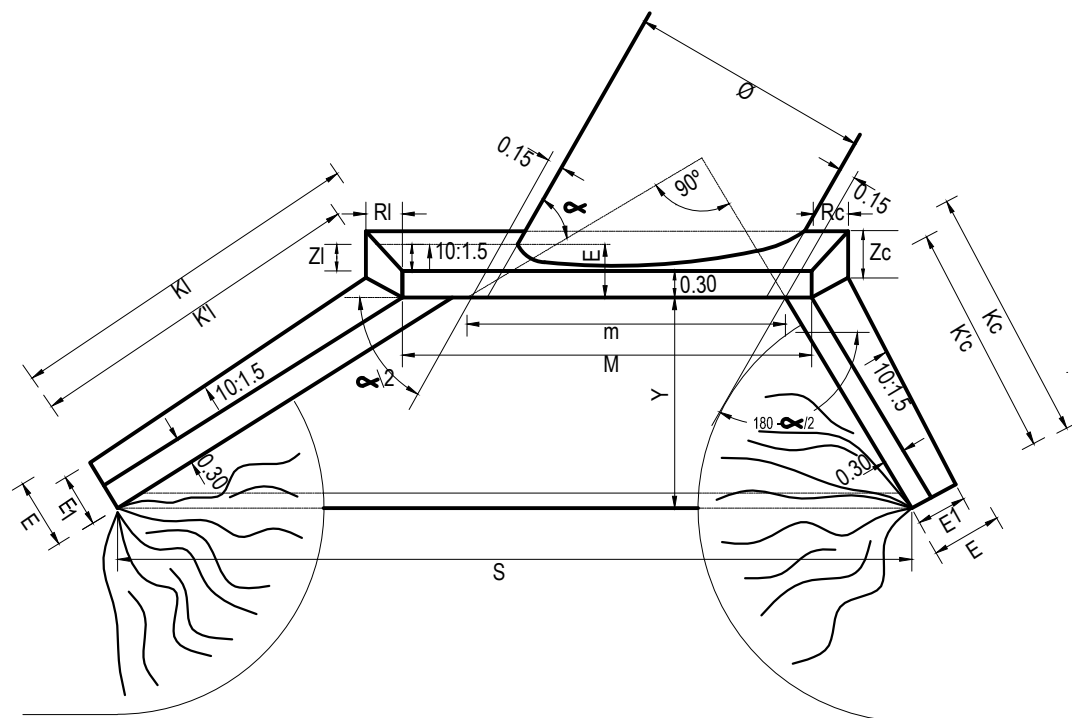
MURO DE FRENTE

$$m = \frac{0.30 + \varnothing}{\text{Sen } \alpha} \quad M = m + \frac{0.30}{\text{Sen } \alpha / 2} + \frac{0.30}{\text{Cos } \alpha / 2}$$

PLATEA

$$S = m + Kl \text{ Cos } \alpha / 2 + Kc \text{ Sen } \alpha / 2$$

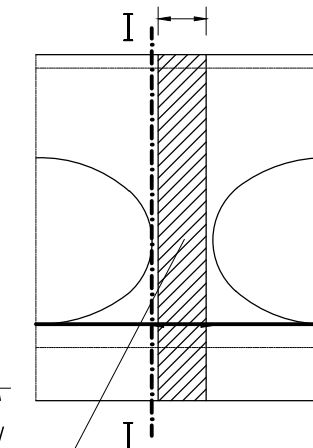
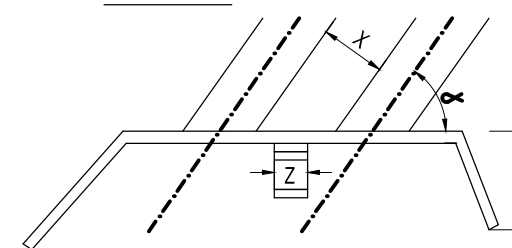
PLANTA



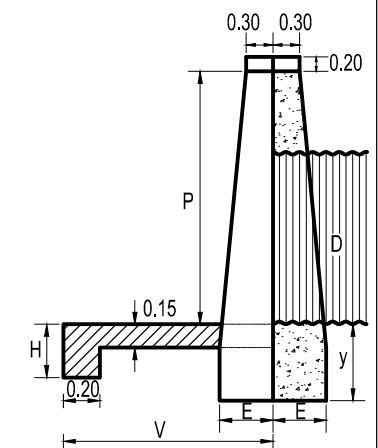
CONTRAFUERTE PARA LUCES MULTIPLES

$$Z = X - 0.20m. \\ (\text{min. } 0.20m.) \\ (\text{max. } 0.50m.)$$

PLANTA



CORTE I-I



X = (min.: 0.40)

- CIRCULAR  $\begin{cases} 0.60 \text{ a } 1.20 : 1/2 \text{ diam.} \\ > \text{ de } 1.20 : 0.60m. \end{cases}$
- BOVEDA  $\begin{cases} 0.90 \text{ a } 2.70 : 1/3 \text{ diam.} \\ > \text{ de } 2.70 : 0.90m. \end{cases}$

NOTA: LOS MUROS, ALAS Y PLATEAS SERAN EJECUTADOS CON HORMIGON SIMPLE CLASE H 17