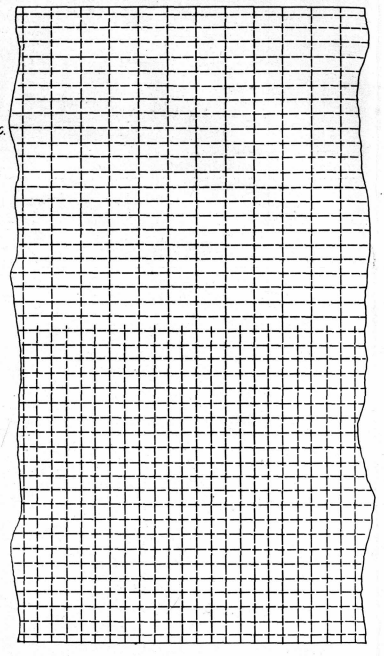
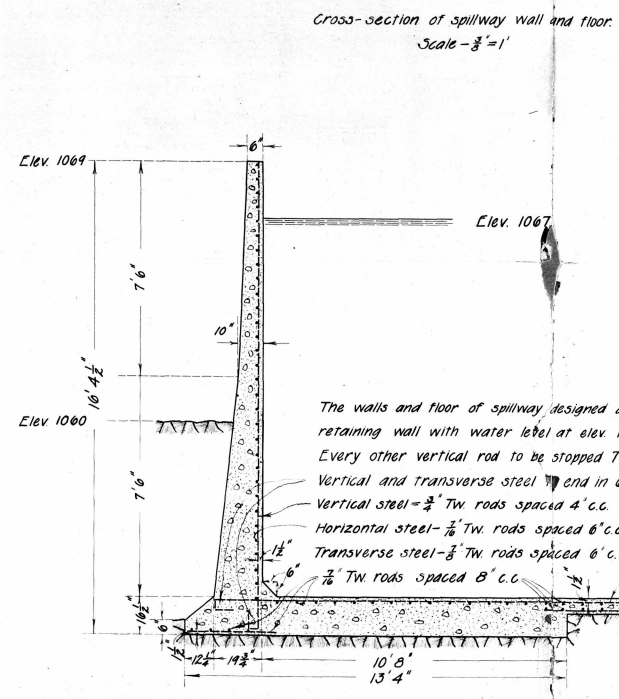


Vertical reinforcement - $\frac{3}{8}$ " Tw. rods 6' c.c.
 Horizontal rods - $\frac{3}{8}$ " Tw. rods 6' c.c.
 Every other vertical rod should be stopped 11' from top.
 Core wall and wing walls have same cross-section but reinforcement should be placed $\frac{1}{2}$ " from battered face in the wing walls.
 Length of core wall = 30'
 Length of wing walls = 40'

Cross-section of core wall.
 Scale - $\frac{3}{8}$ " = 1'

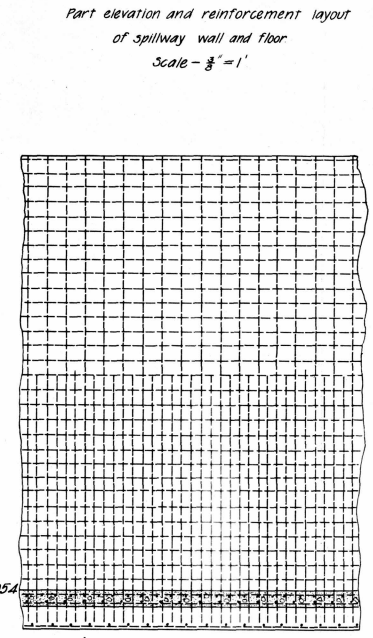


Part elevation and reinforcement layout of core wall and wing walls.
 Scale - $\frac{3}{8}$ " = 1'

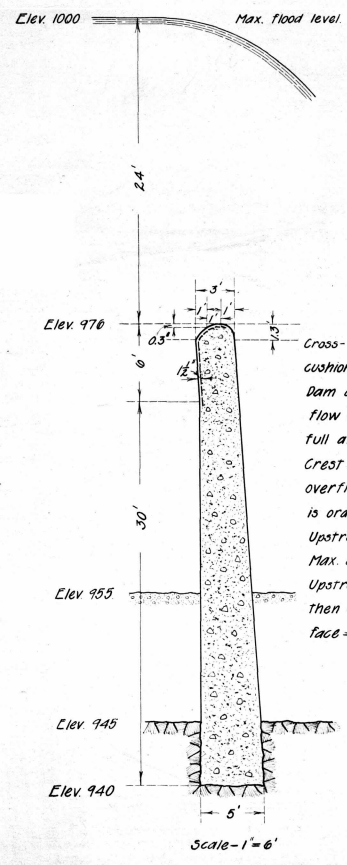


Cross-section of spillway wall and floor.
 Scale - $\frac{3}{8}$ " = 1'

The walls and floor of spillway designed as a retaining wall with water level at elev. 1069.
 Every other vertical rod to be stopped 7'6" from top.
 Vertical and transverse steel end in 6" hook.
 Vertical steel - $\frac{3}{8}$ " Tw. rods spaced 4' c.c.
 Horizontal steel - $\frac{3}{8}$ " Tw. rods spaced 6' c.c.
 Transverse steel - $\frac{3}{8}$ " Tw. rods spaced 6' c.c.
 $\frac{3}{8}$ " Tw. rods spaced 8' c.c.

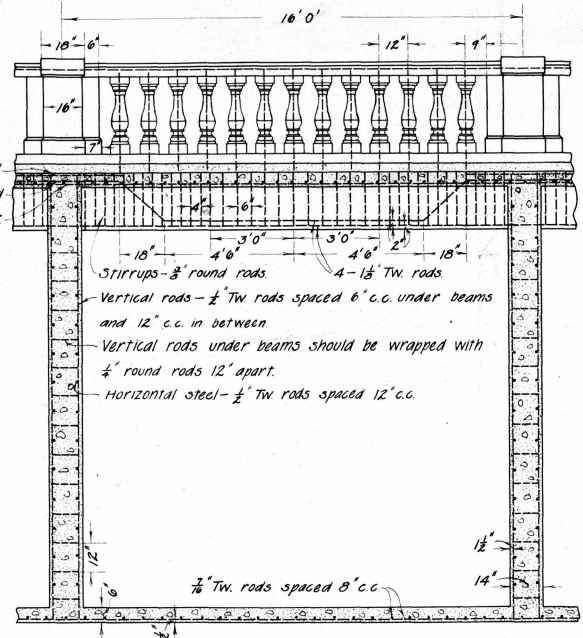


Part elevation and reinforcement layout of spillway wall and floor.
 Scale - $\frac{3}{8}$ " = 1'

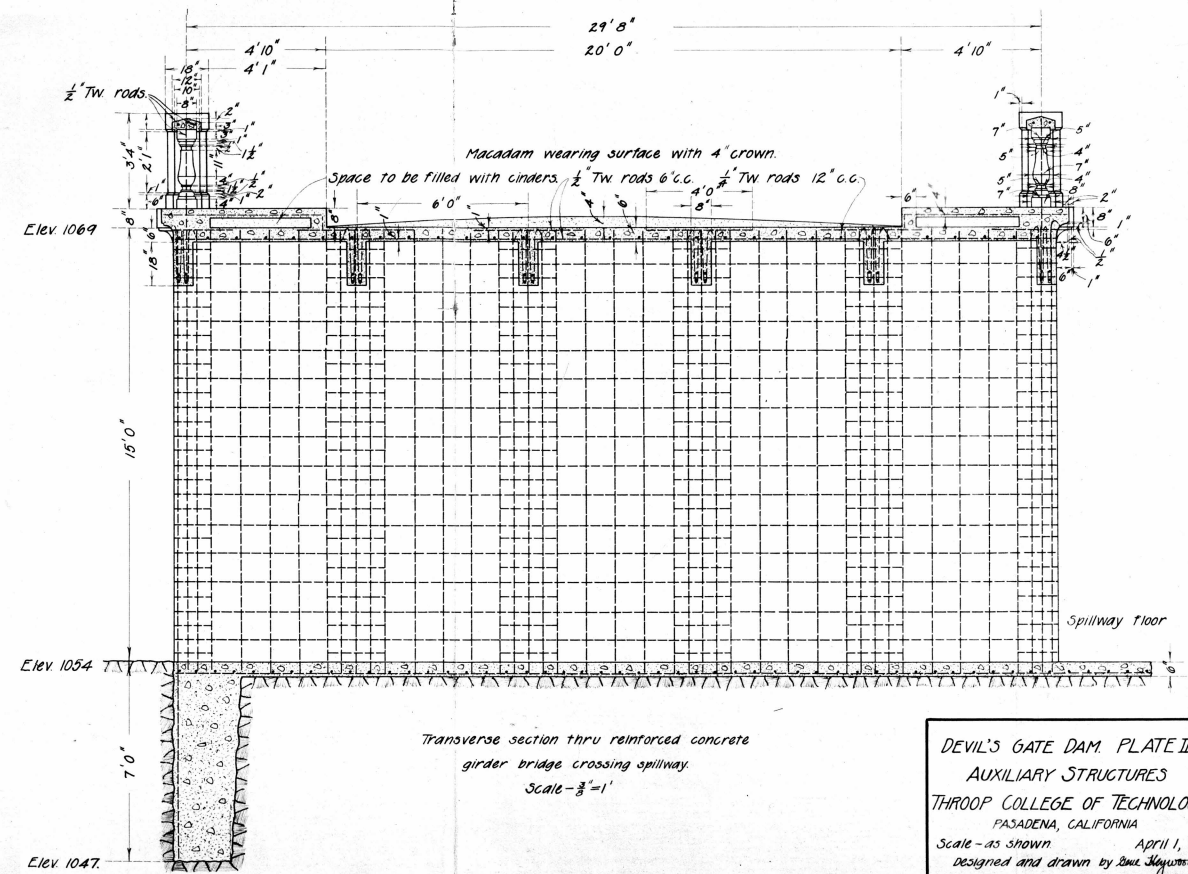


Cross-section of overflow water cushion arch dam.
 Dam designed for max. flood flow of 24000 sec. ft. plus full atmospheric pressure.
 Crest designed to fit curve of overflow of 7000 sec. ft. which is ordinary maximum.
 Upstream radius = 30.5'
 Max. arch stress = 40700 ψ /in.²
 Upstream face vertical to elev. 970 then same batter as downstream face = 1:15

Scale - 1" = 6'



Longitudinal section thru reinforced concrete girder bridge crossing spillway.
 Total length of 9 spans @ 16' = 144'.
 Designed for 20 ton truck loading.
 Scale - $\frac{3}{8}$ " = 1'



Transverse section thru reinforced concrete girder bridge crossing spillway.
 Scale - $\frac{3}{8}$ " = 1'