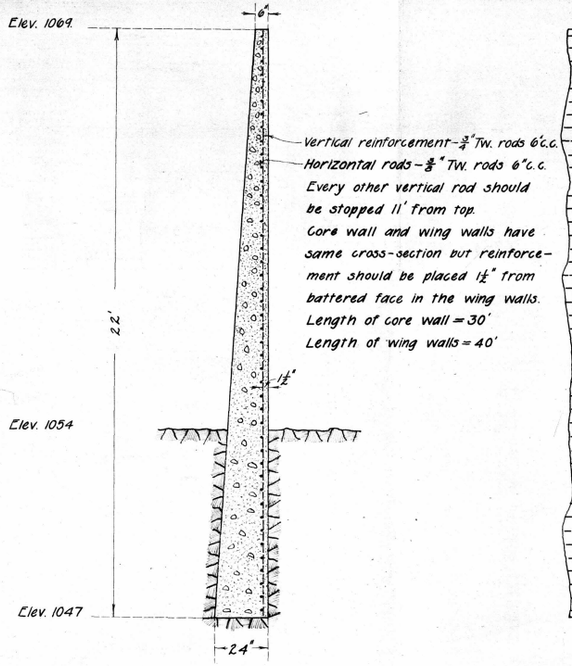
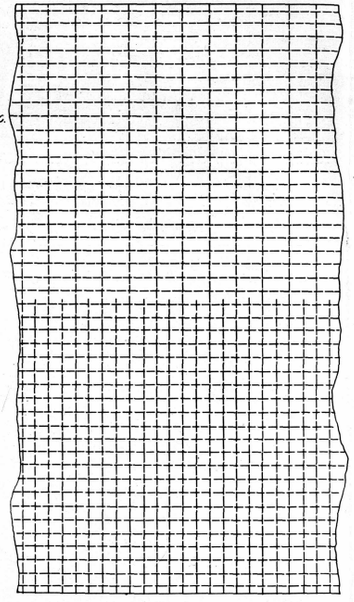
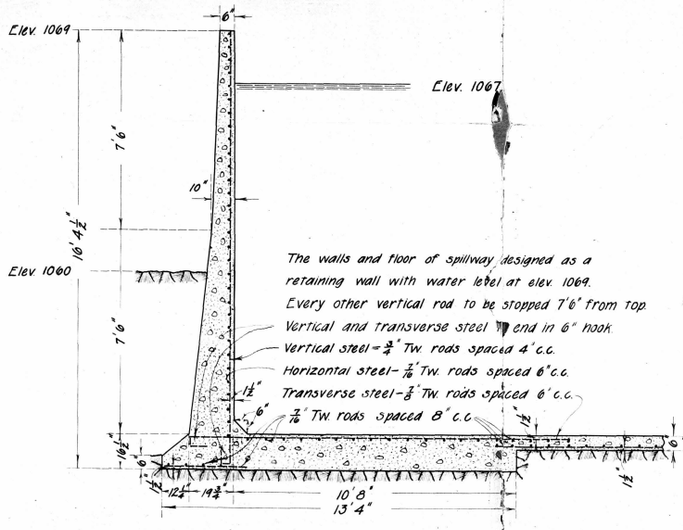


Cross-section of core wall.
Scale - ⅜" = 1'

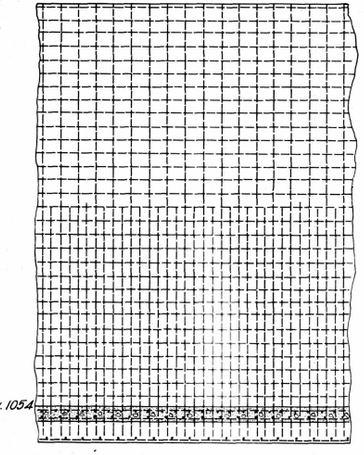


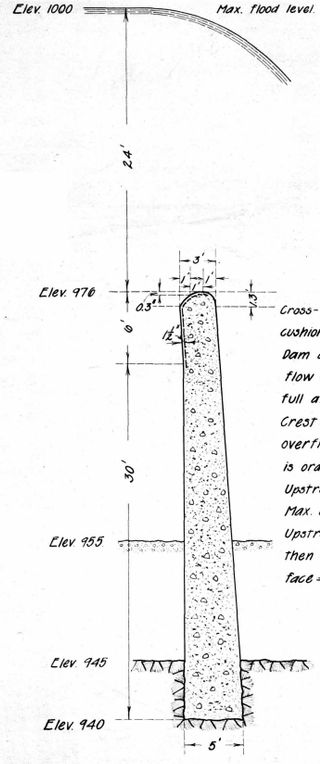
Part elevation and reinforcement layout of core wall and wing walls.
Scale - ⅜" = 1'

Cross-section of spillway wall and floor.
Scale - ⅜" = 1'



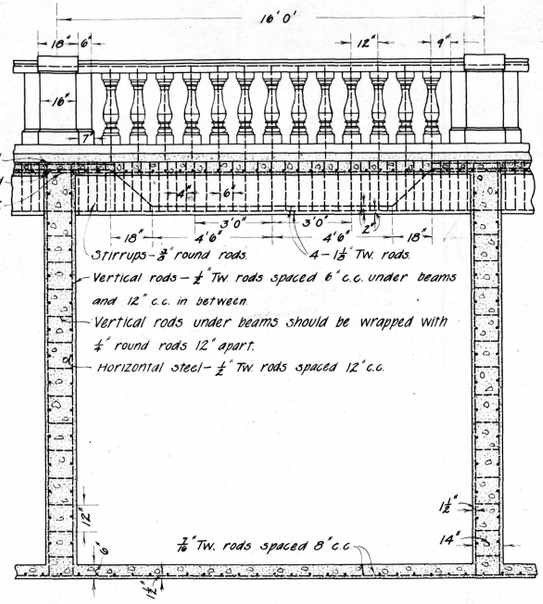
Part elevation and reinforcement layout of spillway wall and floor.
Scale - ⅜" = 1'



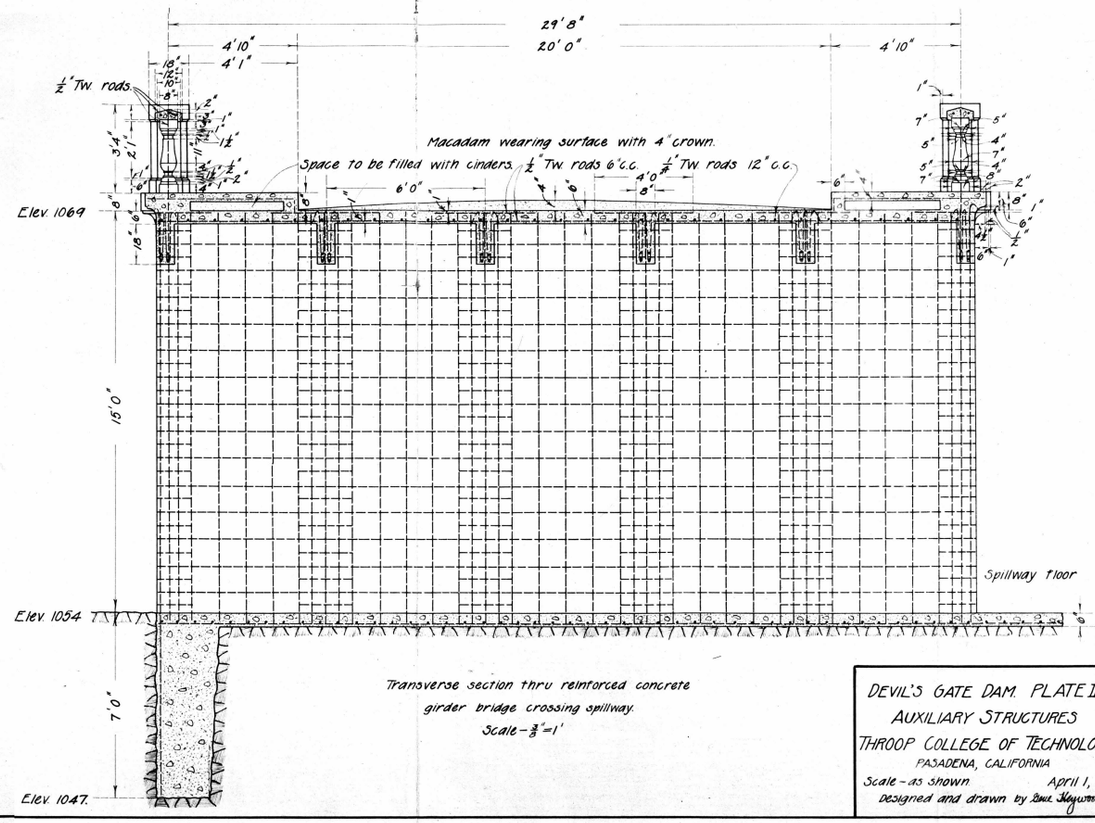


Cross-section of overflow water cushion arch dam.
Dam designed for max. flood flow of 24000 sec. ft. plus full atmospheric pressure.
Crest designed to fit curve of overflow of 7000 sec. ft. which is ordinary maximum.
Upstream radius = 30.5'
Max. arch stress = 40700 #/in²
Upstream face vertical to elev. 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 - ⅜" = 1'



Transverse section thru reinforced concrete girder bridge crossing spillway.
Scale - ⅜" = 1'

DEVIL'S GATE DAM. PLATE III
AUXILIARY STRUCTURES
THROOP COLLEGE OF TECHNOLOGY
PASADENA, CALIFORNIA
Scale - as shown. April 1, '18.
Designed and drawn by Bruce Hegwood.