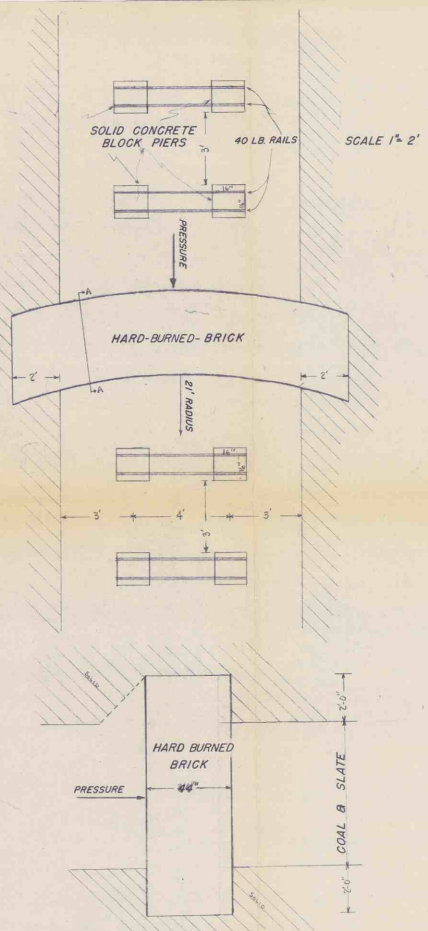


FORMULA FOR DAM THICKNESS

$$T = \frac{PW\sqrt{SR}}{4S}$$

T = THICKNESS OF DAM IN INCHES
 R = SHORTER RADIUS IN INCHES
 W = WIDTH OF OPENING IN INCHES
 S = COMPRESSIVE STRENGTH OF BRICK IN LBS. PER SQ. IN.
 USED 1000 LBS. PER SQ. IN.



SECTION A A

PITTSBURGH COAL CO.
 MONTOUR 10 MINE

PROPOSED BULKHEADS IN 16,17,18,19 FACES.

MAY 1952

SCALE AS NOTED