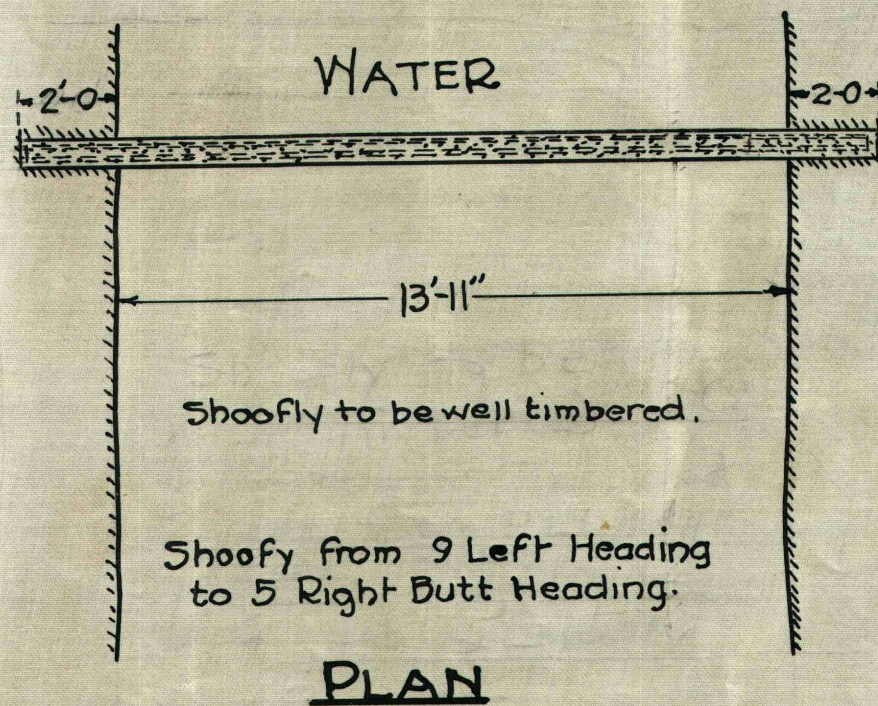
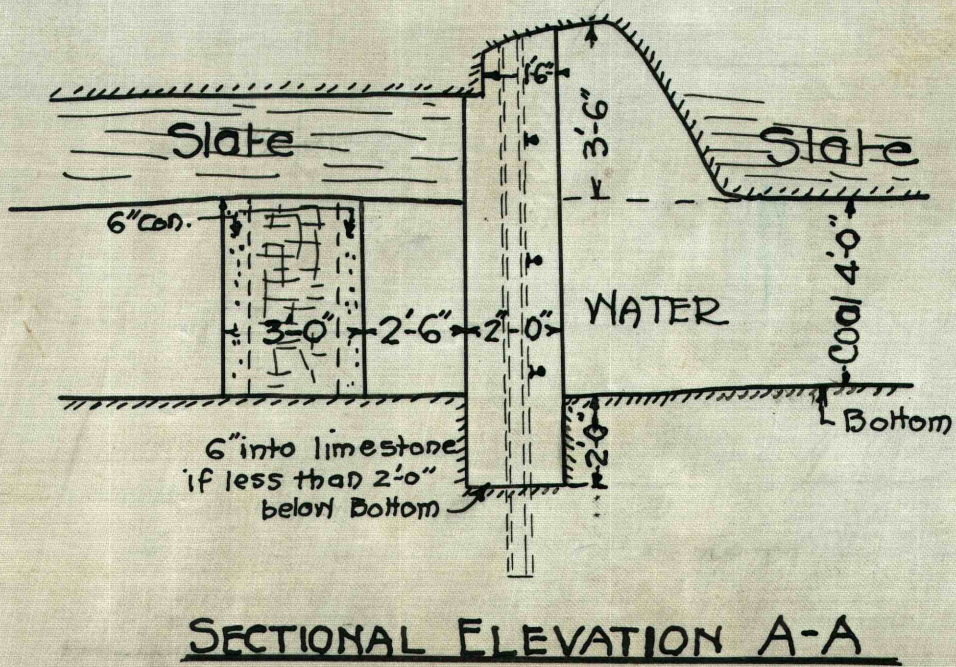
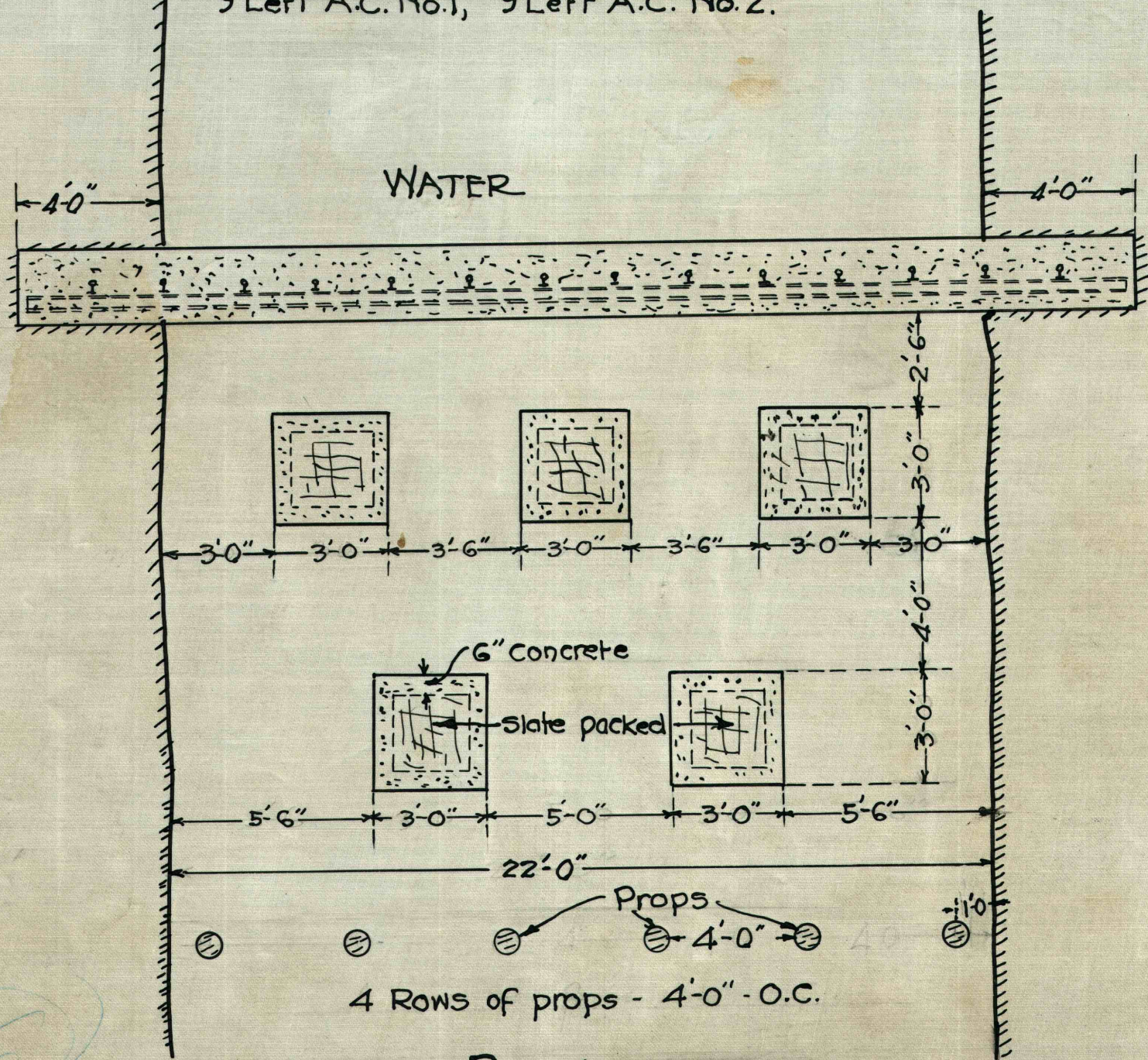


Dams to be Constructed in 9 Left Pillar A.C.,
9 Left A.C. No.1, 9 Left A.C. No.2.



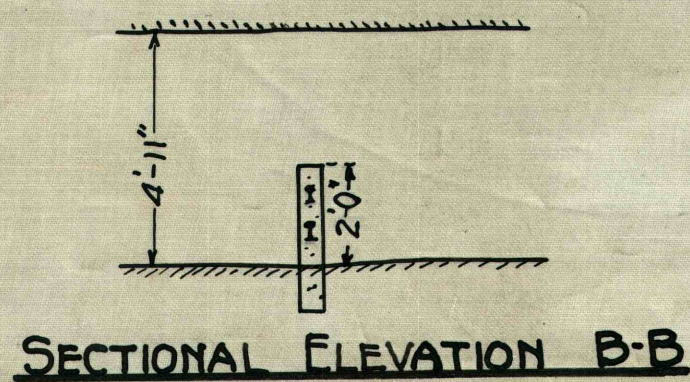
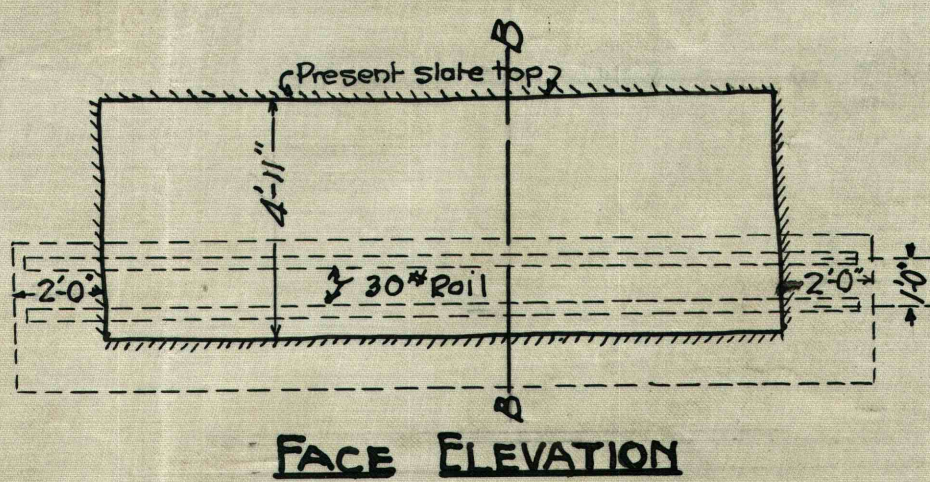
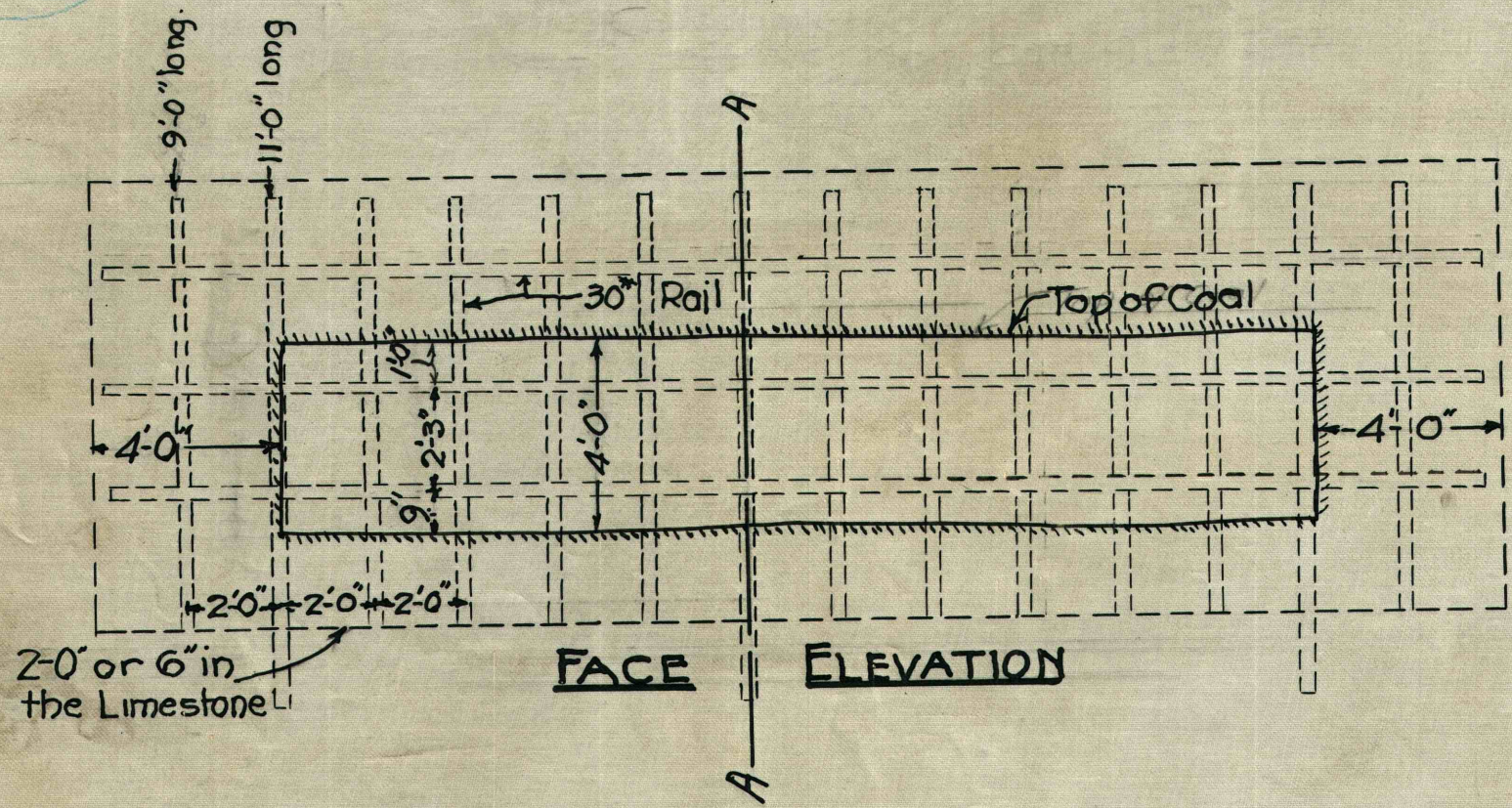
SPECIFICATIONS:-

Mixture:- 1 part Lehigh or equal, cement, 2 parts clean sand, 3 parts Ferner's crushed minus 1/2" sand rock.
Place concrete from Inby side.- Ram well into all spaces.

1. Set props on each side of dam site.
2. Channel top, bottom and sides as shown; use no explosives.
3. Place rail as shown, use long verticals as support for rail.
4. Build form for dam from old coal rib to old coal rib only; no forms in channels, except top of water side. No wires thru dam. Support forms from outside only.
5. Build piers as shown, and place timber.
6. When 7 days old, remove forms from dam; plaster all defects in concrete.
7. Observe pressure on dams and effect on adjacent strata, timber where necessary to make dams accessible for examination.

I Thomas Greenshields hereby certify that concrete structures indicated on this plan were constructed under my personal supervision with great care and in a workman like manner, according to specifications here set forth.

11-22-38 Date Thomas Greenshields Name



APPROVED:-

F.E. Bedale 4-29-38
L.H. Schnerr 5-7-38
F.F. Jorgensen 4-29-38
D.A. Reed 4-29-38
J.M. Carter 5-7-38

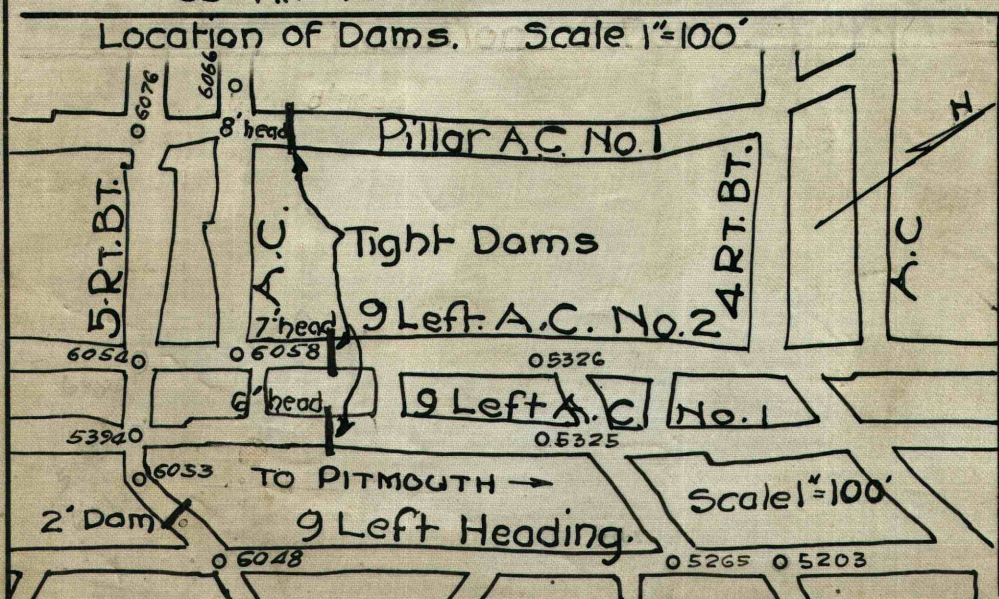
F.M. Cunningham
Mine Inspector 20th, Dist. 2-6-39

M.A. Thomas
Mine Inspector 24th, Dist. 2-6-39

R.W. Joseph
Mine Inspector 6th, Dist. 2-6-39

Note:- The purpose of these dams is to divert water from 9 Left Panel through No.5 Butt Aircourse to the old Bell Mine section from which it gravitates to the Main Pump Station located below 7 Butt-3 Left. The maximum water head against these dams, to attain this diversion, is 8 feet above bottom at the dams.

144 bbl. cement
53 N.T. sand.
55 N.T. Ferner's hard sandstone (minus 1/2")



Note:- All economically recoverable material inby Bulk Heads to be removed, Ditching and unobstructed connection for water made from 5 Right Butt A.C. to 3 Right in Bell before Dams are constructed. (5-13-38)

CONSOLIDATION COAL CO.
MINE No. 120 ACOSTA, PA.
CONCRETE BULKHEADS NEAR 5 RT. BT., 9 LT.
Scale: 1/4"=1' 4-7-38 Engr. Dept., Pa. Div.