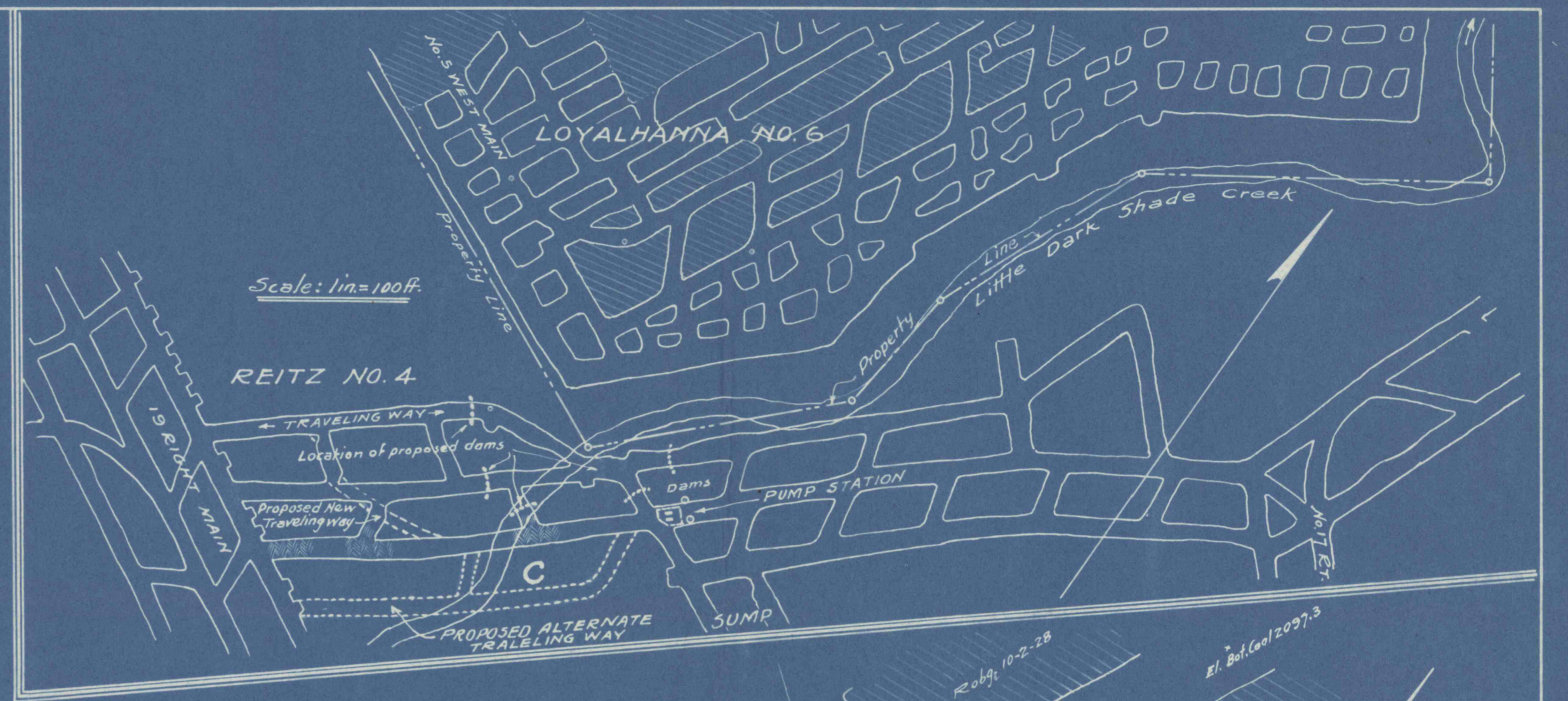


We the undersigned have personally supervised and/or inspected the work during construction of the dams shown hereon. All dimensions have been followed and all materials used as shown on this plan, except as noted in red.

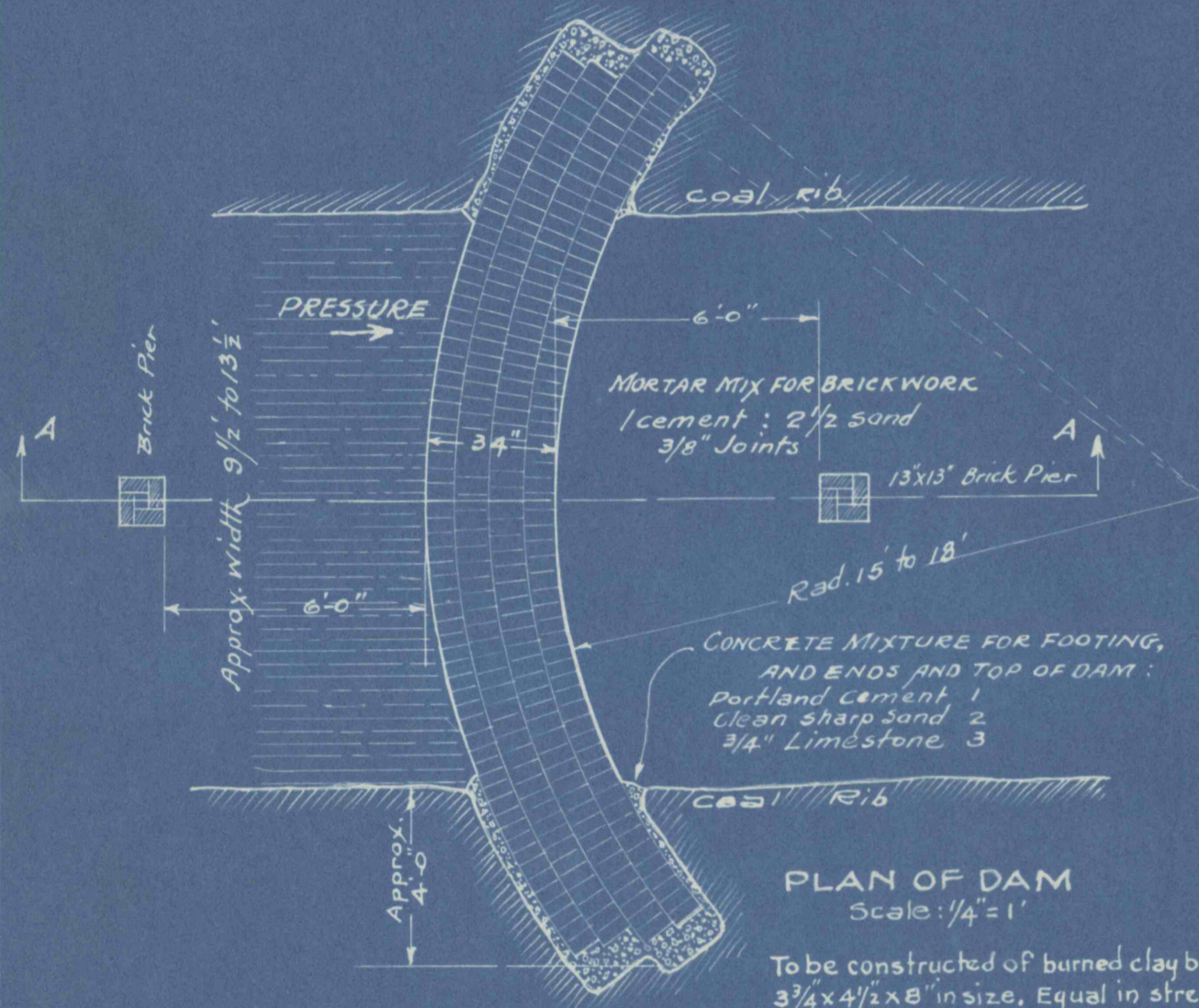
Innis H. Fairley
Engineer.
Thomas W. ...
Superintendent.
Harry ...
Construction Foreman.



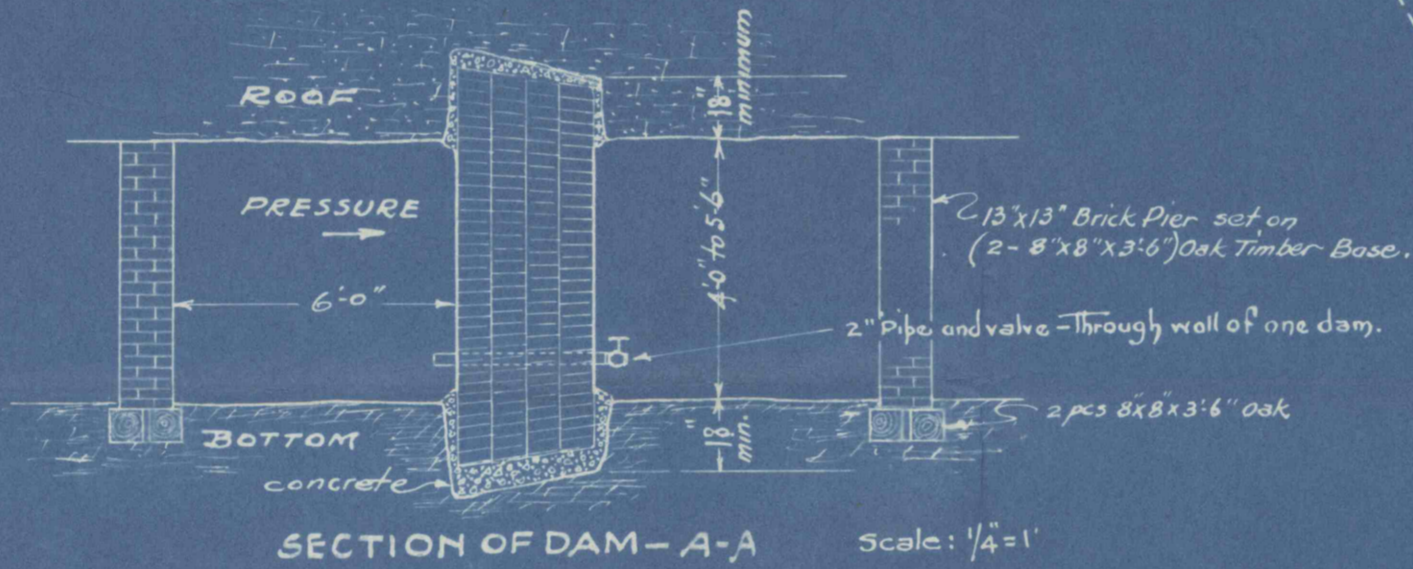
APPROVED

COMMISSION

Inspector 20th. Bit. District
Shurgeon ...
Inspector 28th. Bit. District
M. W. Thomas
Inspector 24th. Bit. District.



To be constructed of burned clay brattice blocks 3 1/4 x 4 1/2 x 8 in size, Equal in strength to high-grade bricks. Radius of arch of dam to be in proportion to width of heading.



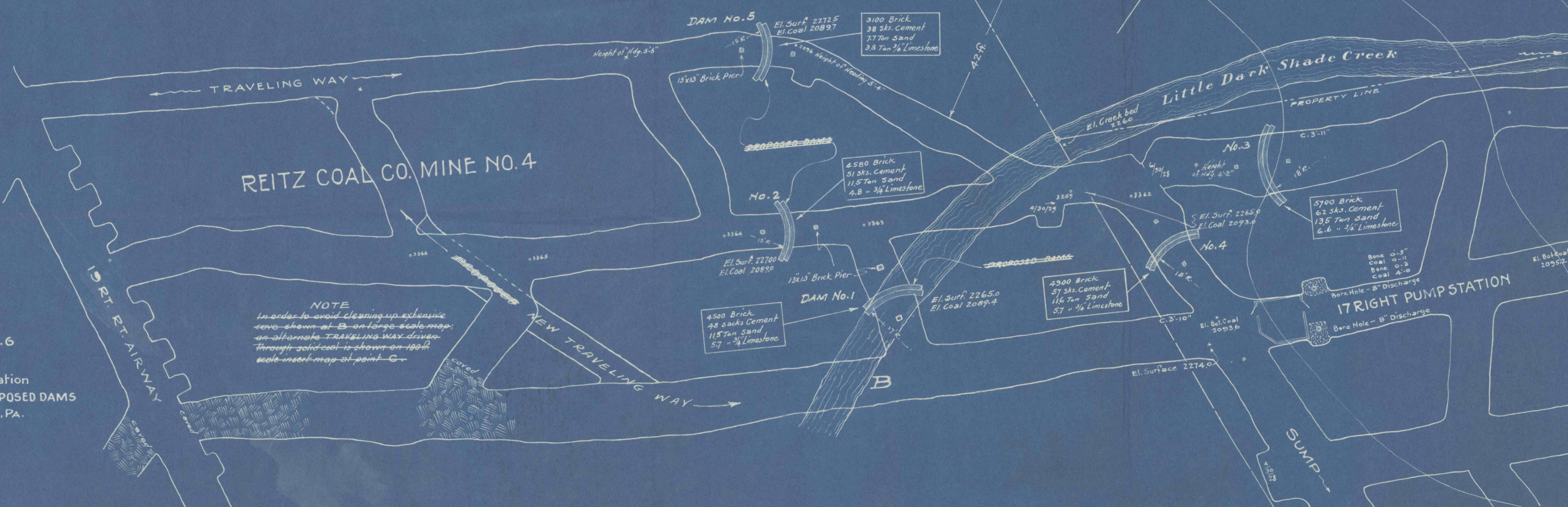
NOTE :-

Future head of water will be 57 ft. or 24.7 lb. per sq. in. Thickness of coal pillar separating water in Loyalhanna Mine No. 6 from Reitz Mine No. 4 is 42 ft. minimum. By Prof. W. S. Aldis' formula for spherical dams, allowing a safety factor of 10; with a pressure of 25 lb. per sq. in. and with an inner radius of 15 ft., the thickness of a brick dam (crushing strength of brick - 2500 lb. per sq. in.) to resist the given pressure would be 9 1/2\"/>

MAP OF PORTIONS OF LOYALHANNA MINE NO. 6 AND REITZ MINE NO. 4 Adjacent to 17 Rt. Pump Station SHOWING PLAN AND LOCATION OF PROPOSED DAMS REITZ COAL CO., WINDBER, PA.

Scale: 1" = 20'
May 27 1942

Innis H. Fairley Engineer
Registration No. 5232



NOTE
In order to avoid clearing up extensive area shown at B on large scale map, an alternate TRAVELING WAY driven through joint coal is shown on upper scale inset map at point C.