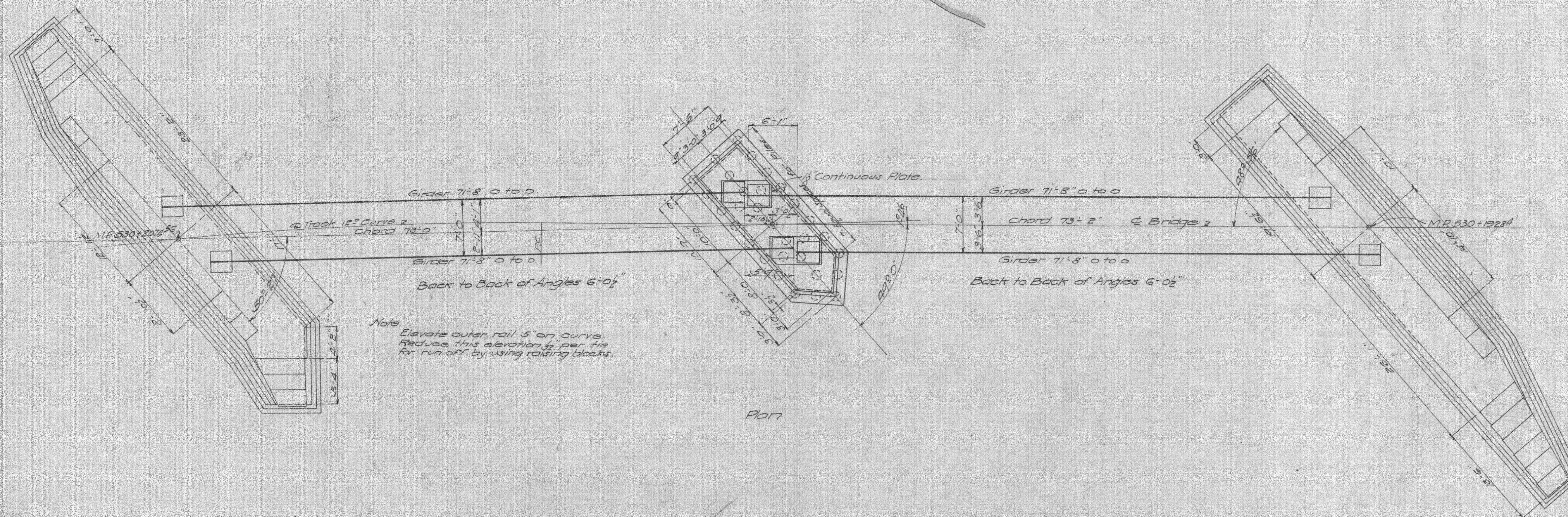


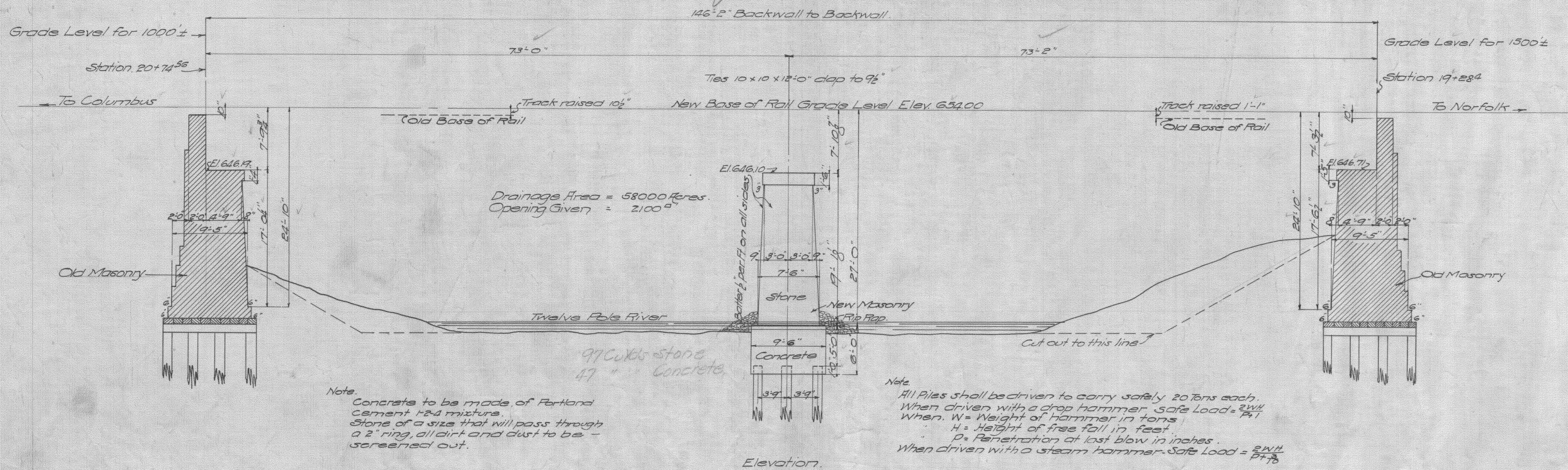
Situation Plan
Scale 1"=50'

Note added 7-12-11
 Drainage area 58000 acres
 Opening reqd. 1525'
 " " on Sq. 1800'
 " " " 2400'
 2-T.P.G. 67-75'



Note
 Elevate outer rail 5' on curve.
 Reduce this elevation 1/2" per tie
 for run off by using raising blocks.

Plan



Drainage Area = 58000 acres.
 Opening Given = 2100'

Note.
 Concrete to be made of Portland
 Cement 1:2:4 mixture.
 Stone of a size that will pass through
 a 2" ring, all dirt and dust to be -
 screened out.

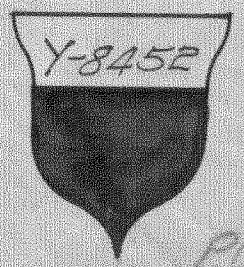
Note
 All Piles shall be driven to carry safely 20 tons each.
 When driven with a drop hammer - safe Load = $\frac{2WH}{H}$
 When W = Weight of hammer in tons
 H = Height of free fall in feet
 P = Penetration at last blow in inches
 When driven with a steam hammer - safe Load = $\frac{2WH}{P}$

Elevation.

50-52/56-2.04
NORFOLK & WESTERN RY
 Masonry Plan of
BRIDGE No 989
 30th Crossing of Twelve Pole River
 M.P. 530+2004'
 Scale 1/2"=1'

Correct *J.S. Crawford* Bridge Engineer
 Approved _____ Prin. Ass't Engineer
 Office of Chief Engr. Roanoke Va, Apr. 11-1911.

Note. Information from Original Plan #2018
 and blue print and notes from JAD. Jan. 10-1911.
 For Alignment see Plan # 344.



PQ 1776
 6 prints 4/22/11