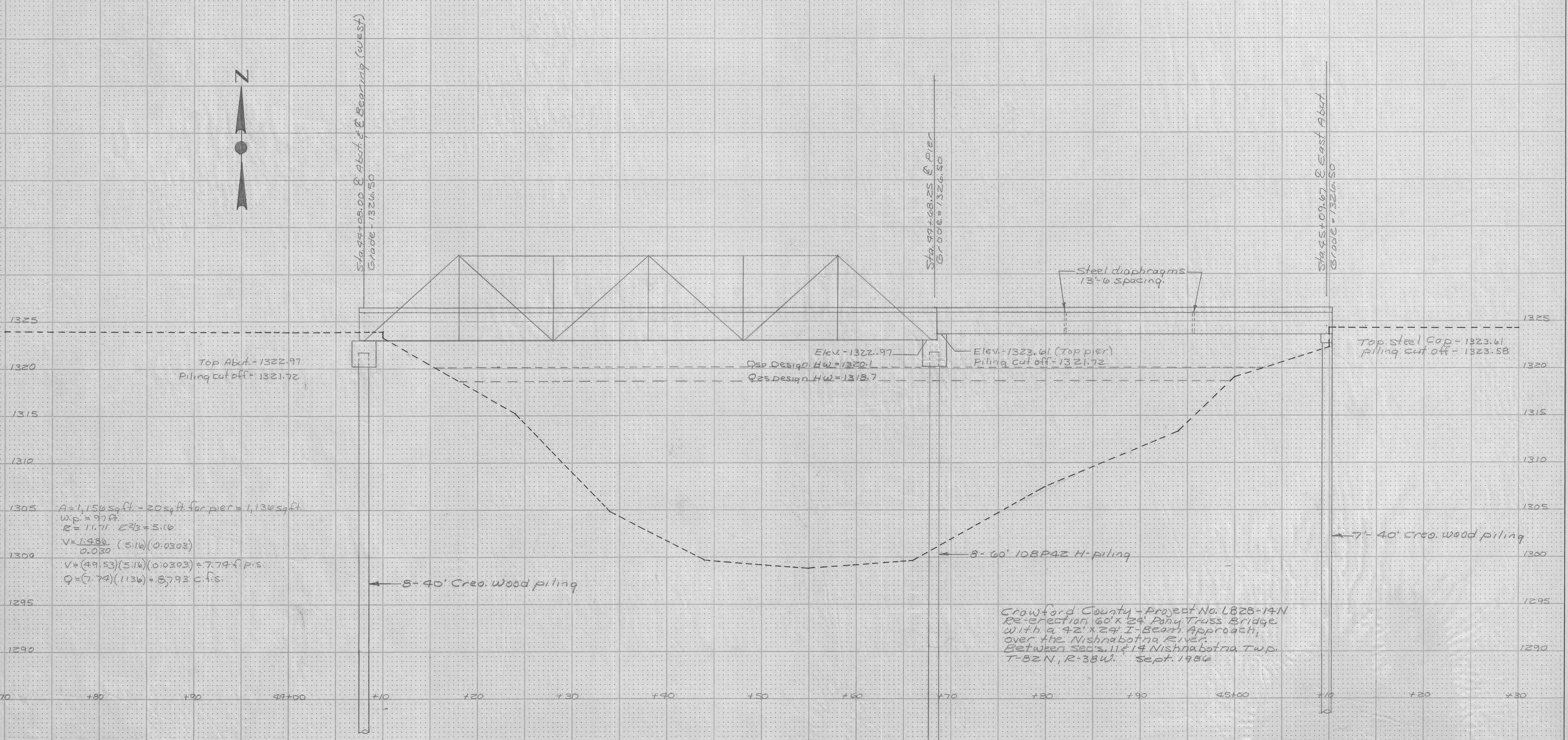


Hydraulic Data:

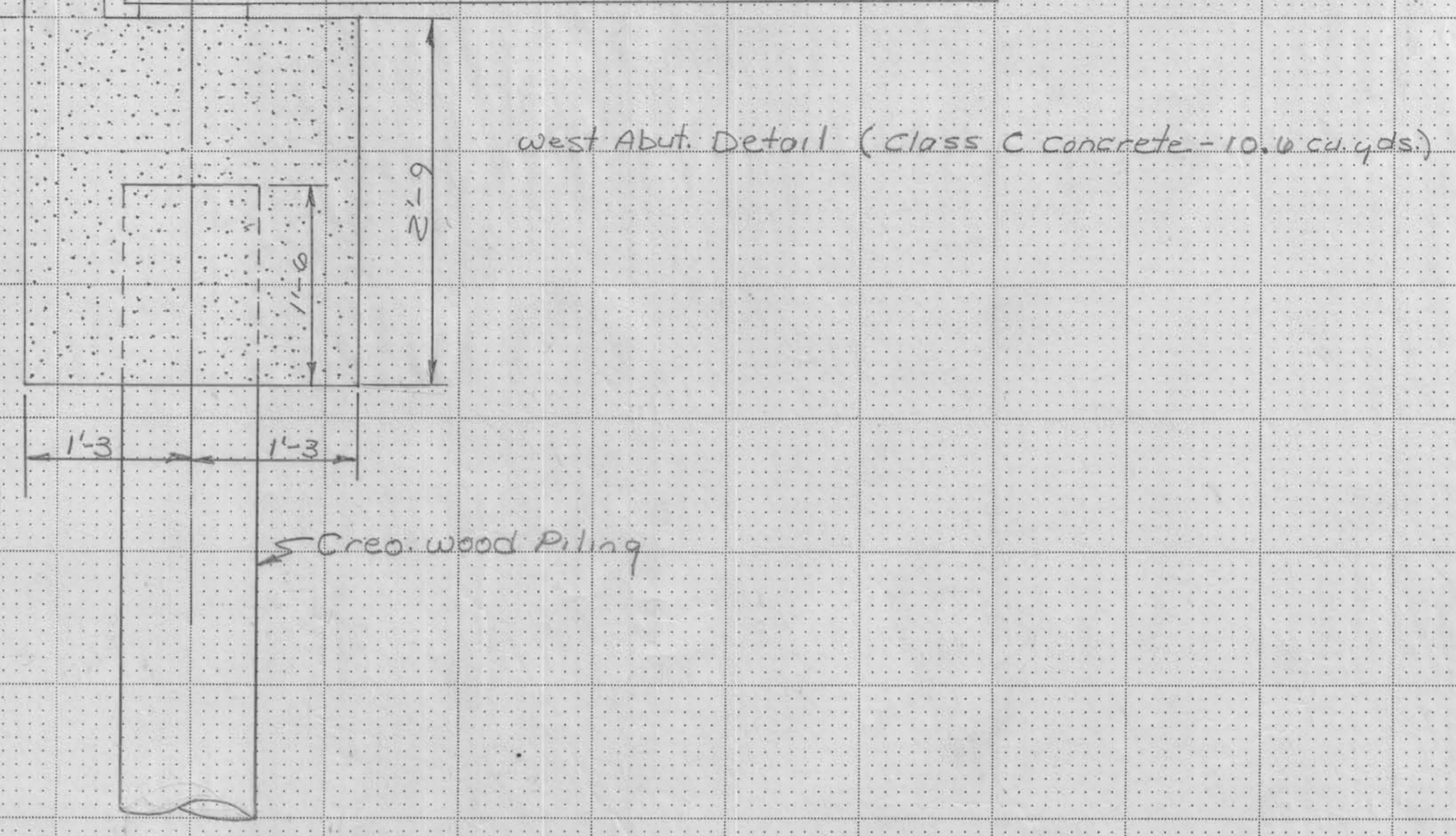
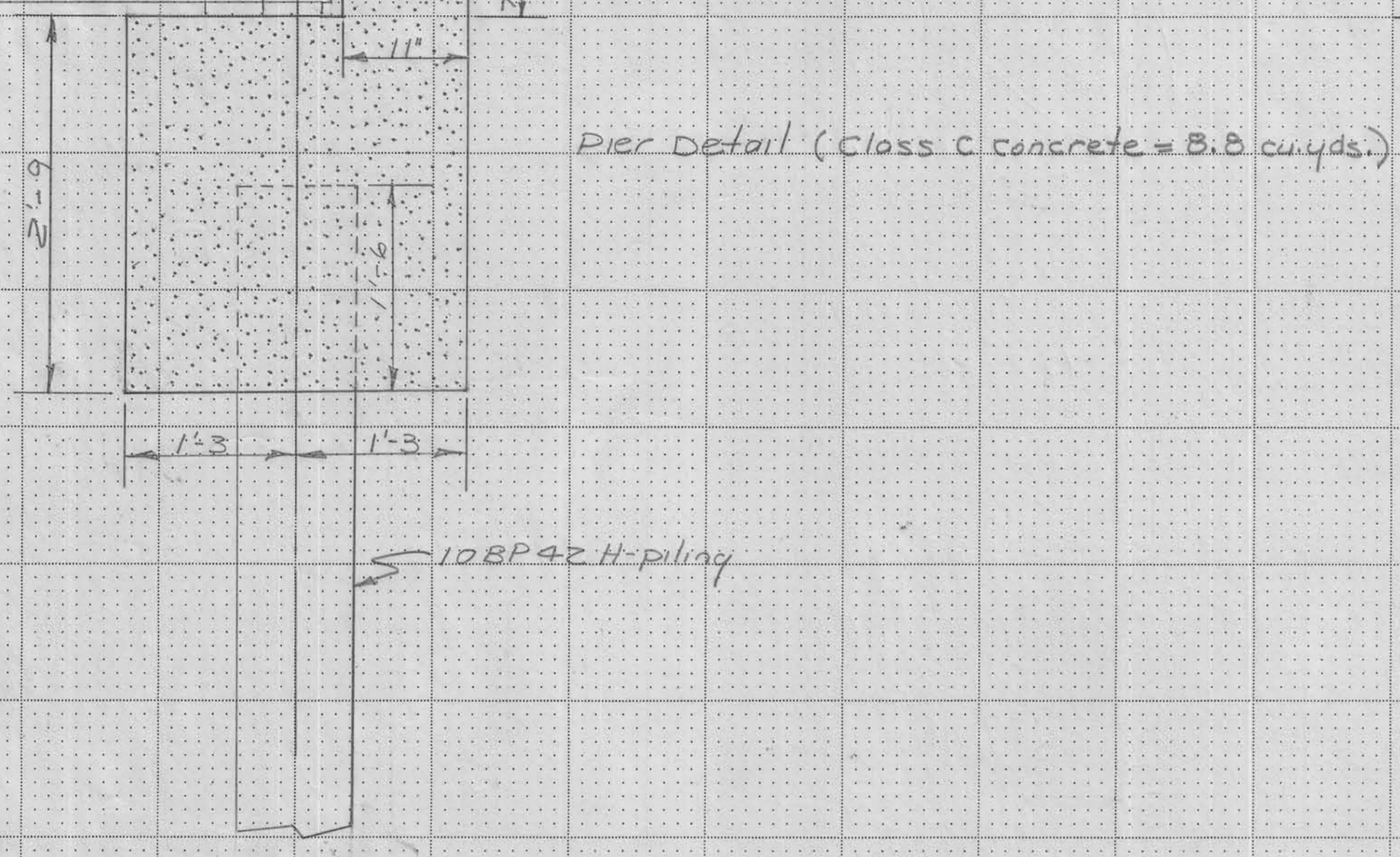
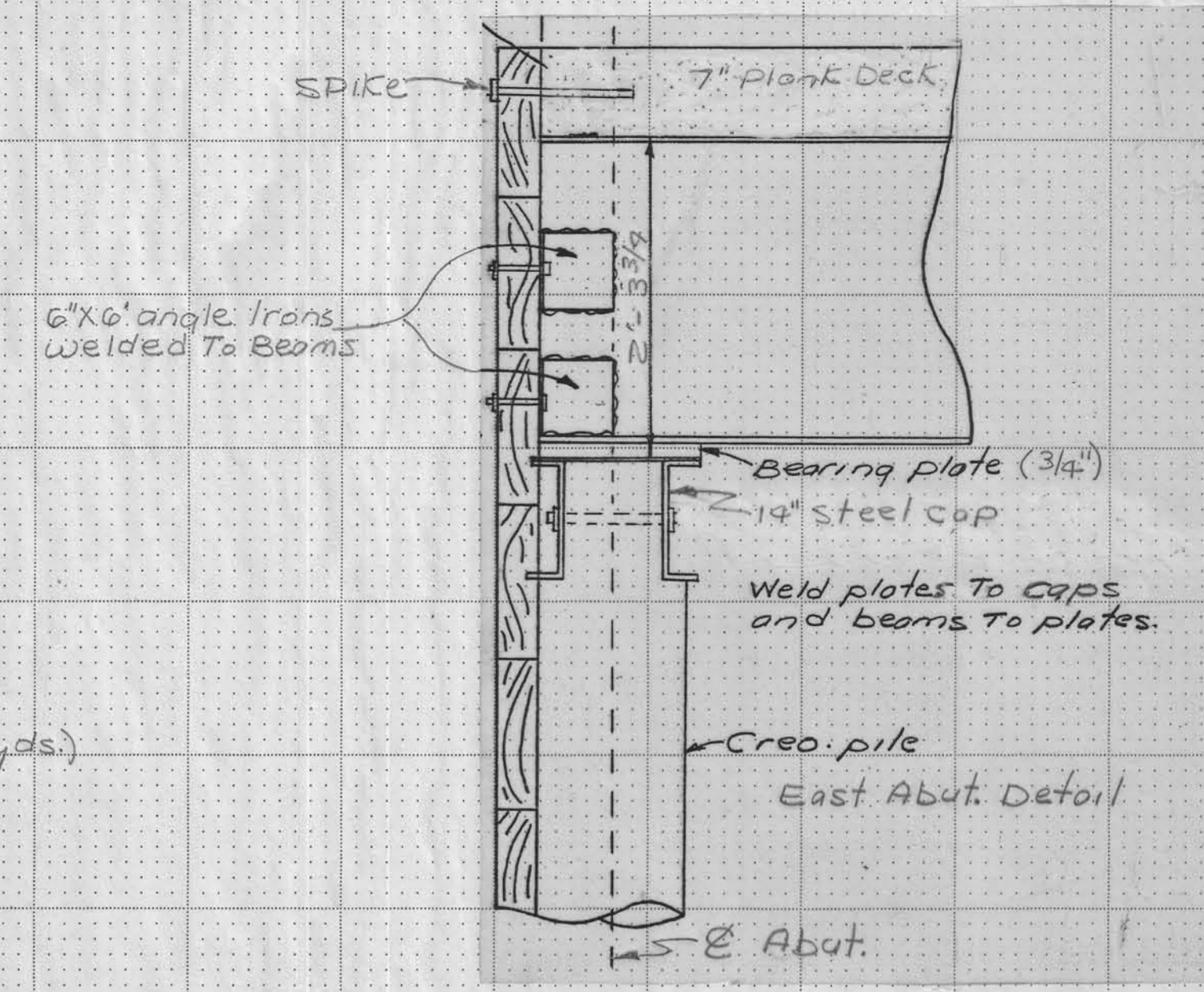
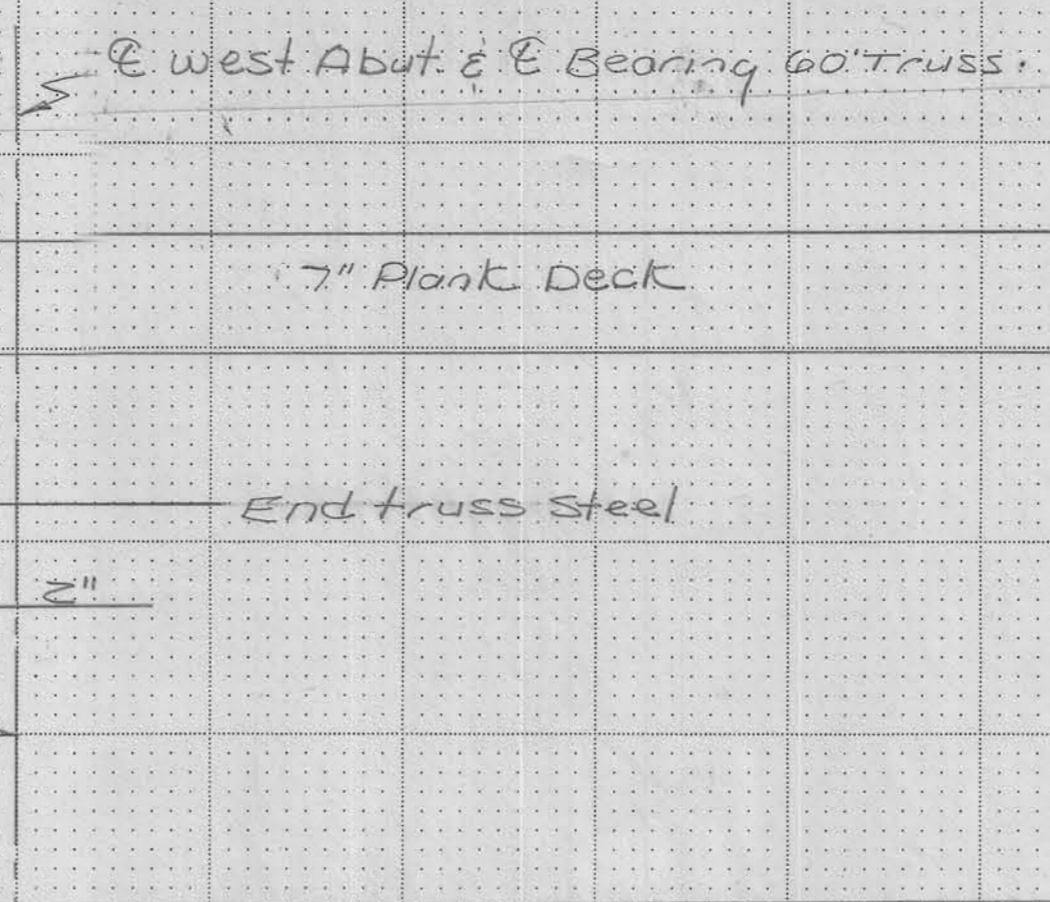
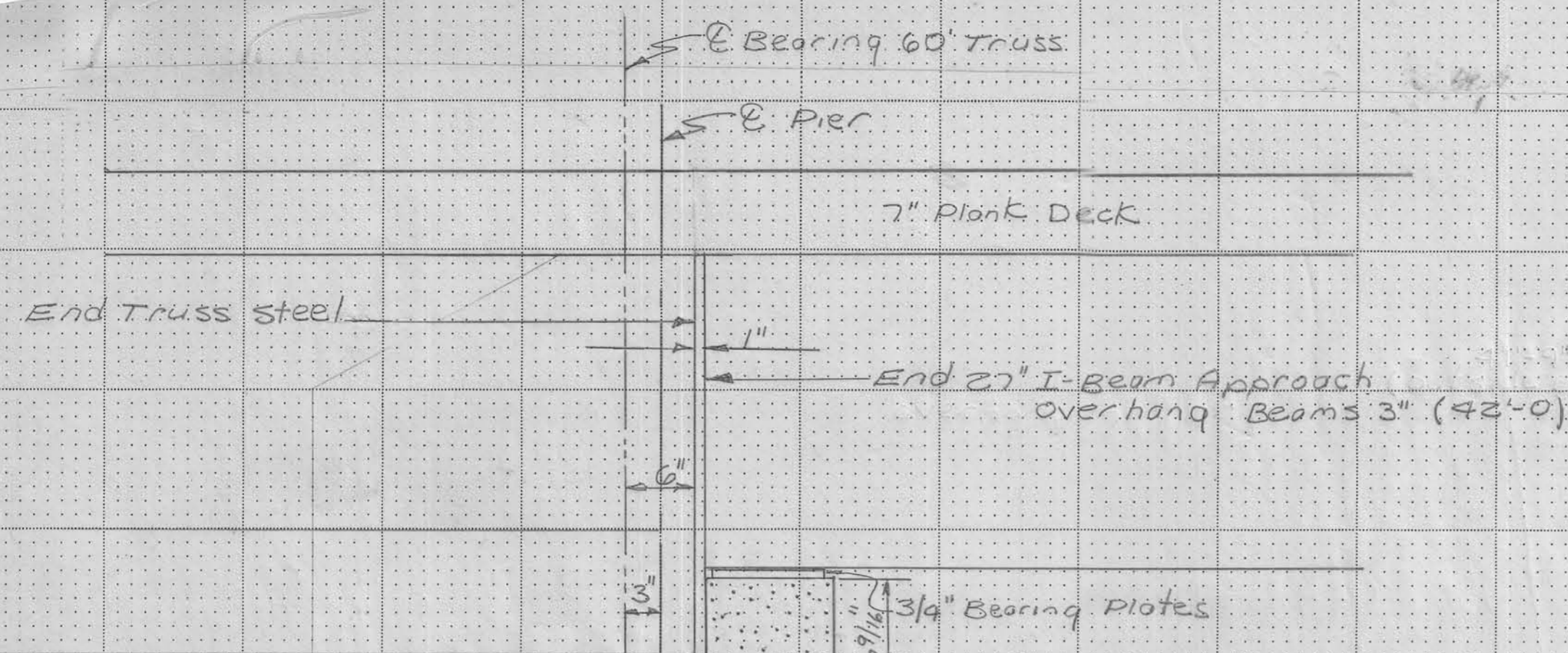
D.A. = 47.33 Sq. mi.  
 10% - 85% slope = 12.29 ft/mi.  
 Slope = 4.86 ft/mi.  
 Design  $Q_{25}$  = 6,134 c.f.s.  
 Design  $Q_{50}$  = 7,000 c.f.s.

BM No. 1 SPK in Power Pole 33' Ct. Sta. 43+05 Elev. = 1323.06

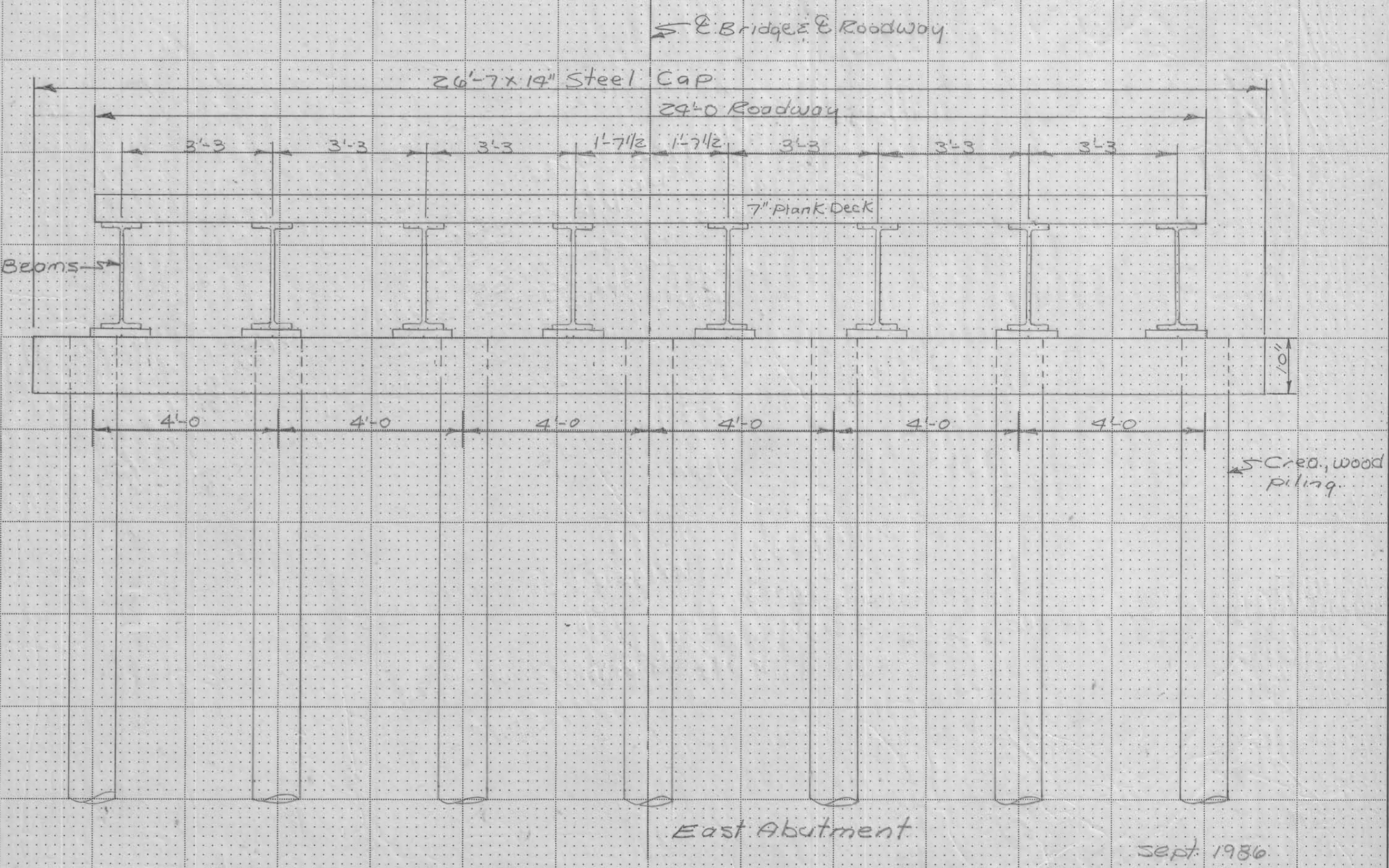
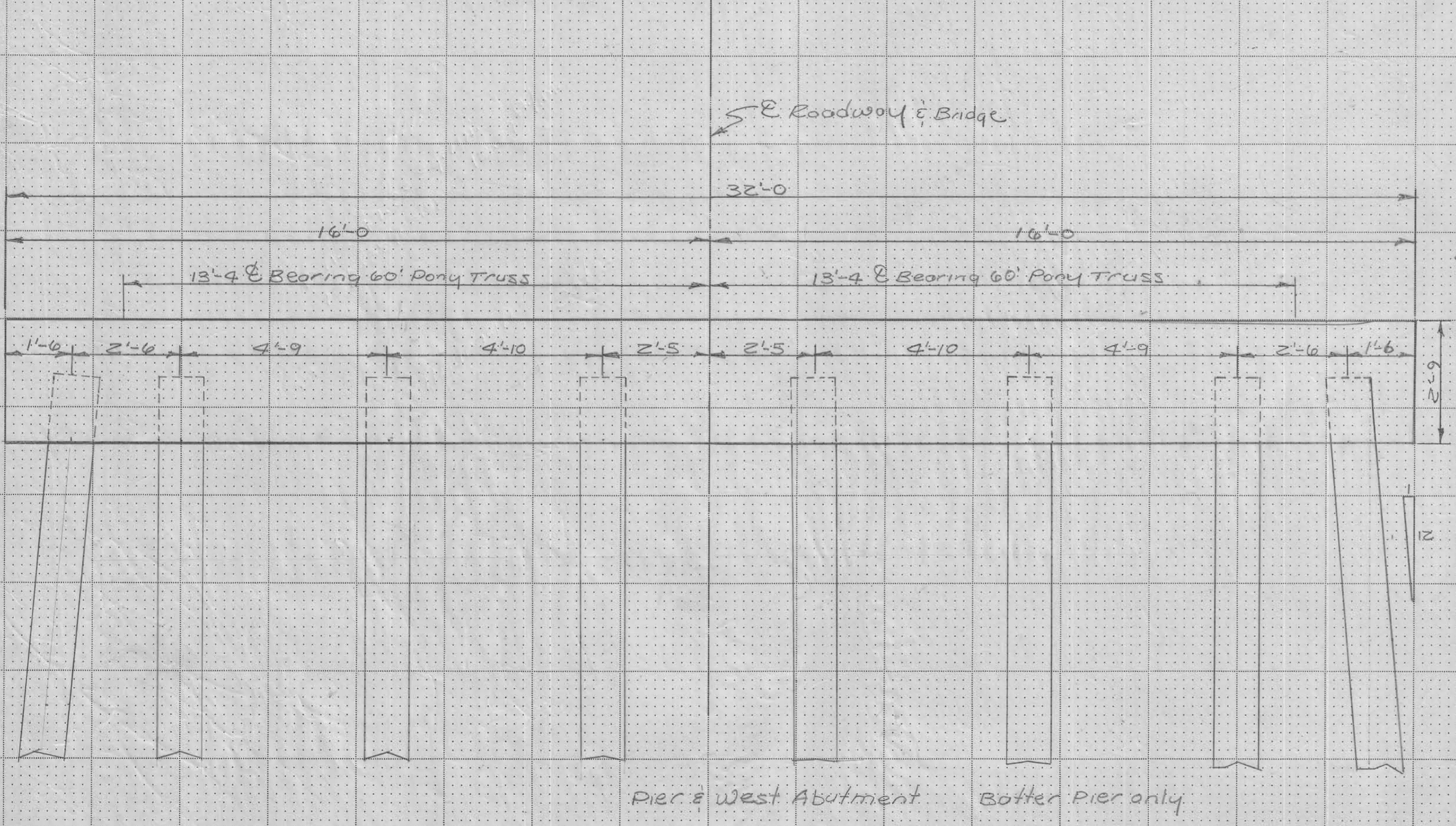


$A = 1,156 \text{ sq. ft.} = 20 \text{ sq. ft. per pier} = 1,136 \text{ sq. ft.}$   
 $w.p. = 97 \text{ ft.}$   
 $R = 11.71 \text{ } Z^2/3 = 5.16$   
 $V = \frac{1.986}{0.030} (5.16)(0.0303)$   
 $V = (49.53)(5.16)(0.0303) = 7.74 \text{ P.S.}$   
 $Q = (7.74)(1136) = 8,793 \text{ c.f.s.}$

Crawford County - Project No. LB28-14N  
 Re-erection 60' x 24' Pony Truss Bridge  
 with a 42' x 24' I-Beam Approach,  
 over the Nishnabotna River,  
 Between Sec's 11 & 14 Nishnabotna Twp.  
 T-82N, R-38W. Sept. 1984



Crawford County - Project No. LB28-14N  
 Re-erection 100' x 24' Pony Truss Bridge  
 with a 42' x 24'-0" I-Beam Approach,  
 over the Nishnabotna River.  
 Between Secs. 11 & 14 Nishnabotna Twp.  
 T-82N, R-38W



Sept. 1986

