

Use pile footings where safe bearing power of the soil is less than one ton per sq.-ft. Piles should be driven to sustain a safe load of ten tons each.

SCALE $\frac{3}{8}$ in = 1 ft. DEC. 15, 1920.

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STATE HIGHWAY ENGINEER

QUANTITIES			
STRUCTURE	CONCRETE	STEEL	
GIRDER ONLY	1.71	2985*	
12' ABUT. SPRD FOOTING		1360	
Backwall & rect. Fts. only	13.74		
6" Wing wall & Fts.	5.57		
8' " " "	4.67		
12' ABUT. PILE FOOTING	26.94	1460	
Backwall & Fts. only	17.52		
6" Wingwall & Fts.	3.95		
8' " " "	5.47		
10' PIER- SPRD FOOTING	13.30	1460	
Diff. per Ft. of height	0.463	50*	
10' PIER- PILE FOOTING	17.28	1610	
Diff. per Ft. of height	0.463	50	
Additional Stride	1.00	163	
COMPLETE 20' BRIDGE 12' ABUT.	61.1	5705*	
" " "	71.0	5905*	