


**Pile Plan - 30° Skew  
Timber Piling**

Number of Piles and Abutment Design Loads									
Bridge Length	70'-0"	80'-0"	90'-0"	100'-0"	110'-0"	120'-0"	130'-0"	140'-0"	150'-0"
Piling - Number	10	11	11	12	12	13	14	16	17
Pu, Strength 1 Design Load - kips	503	536	566	606	644	687	729	Δ852	Δ901

Δ Includes dynamic load allowance

Note: Pu, Strength 1 Design Load (kips) is not the value used in the field for driving piles.

Latest Revision Date	 Approved by Bridge Engineer	IOWA   DOT	
		Standard Design-40'-0" Roadway, 3 Span Bridge	
		Continuous Concrete Slab Bridge	
		July, 2025	
		Abutment Details 30° Skew - Timber Piling (2 of 2)	J40-34-25