



Technical drawing of a mechanical part. The drawing shows a vertical section with a horizontal base. The height is labeled as 8'-8". The width is labeled as 1'-10". A circular feature is shown with a diameter dimension of $D=10 \frac{3}{4}$ ".

d2

NOTE: D = PIN DIAMETER.
DIMENSIONS ARE OUT TO OUT.



- ① FOR DETERMINING ACTUAL PILE LENGTHS IN FIELD.
- ② FOR ESTIMATING PILE LENGTHS USING AASHTO LRFD SPECIFICATIONS.

STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0".

FOOTING SIZE	REINFORCING STEEL (ONE FOOTING)				STRUCTURAL CONCRETE (CY)
	BAR	NO., SIZE & SPACING	LENGTH	WEIGHT (L.B.)	
4' x 8' x 29'	d2	58 - #10 AS SHOWN	10'-6	2621	4071
	f1	29 - #5 @ 1'-0	7'-8	232	
	f2	8 - #5 @ 1'-0	28'-8	239	
	g1	29 - #6 @ 1'-0	7'-8	334	
	g2	11 - #7 @ 0'-9	28'-8	645	
4' x 9' x 29'	d2	58 - #10 AS SHOWN	10'-6	2621	4311
	f1	29 - #5 @ 1'-0	8'-8	262	
	f2	9 - #5 @ 1'-0	28'-8	269	
	g1	29 - #7 @ 1'-0	8'-8	514	
	g2	11 - #7 @ 0'-10	28'-8	645	
4' x 9' x 30'	d2	58 - #10 AS SHOWN	10'-6	2621	4723
	f1	30 - #5 @ 1'-0	8'-8	271	
	f2	9 - #5 @ 1'-0	29'-8	278	
	g1	34 - #7 @ 0'-10 1/2	8'-8	602	
	g2	12 - #8 @ 0'-9	29'-8	951	

01-10 LATEST REVISION DATE <i>Norman E. McQuillan</i> APPROVED BY BRIDGE ENGINEER	 Iowa Department of Transportation Highway Division	
	STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES AUGUST, 2009	
	TEE PIER - 75 TON STEEL PILE FOOTINGS 45° SKEW - H=25' TO 40'	H40-86-06