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FOOTING CHART

FOOTING SUMMARY: Soil Bearing Pressure 2000 psf							
Minimum Baseplate (in)	Load Allowable, P x 1000 lbs	Load Factored, Pf x 1000 lbs	Footing Size		Number of Rebar Required Each Direction		
			Sq. Dim., b (in)	Thickness, t (in)	10M	15M	20M
3.5 x 5.25	8.0	11.4	24	9	3	3	---
3.5 x 5.25	10.0	14.2	30	9	4	3	3
3.5 x 5.25	12.0	17.0	30	9	4	3	3
3.5 x 5.25	14.0	19.9	36	10	5	3	3
3.5 x 5.25	16.0	22.7	36	10	5	3	3
3.5 x 5.25	18.0	25.6	36	10	5	3	3
3.5 x 5.25	20.0	28.4	42	10	6	4	4
3.5 x 5.25	22.0	31.2	42	10	6	4	4
3.5 x 5.25	24.0	34.1	42	10	6	4	4
3.5 x 5.25	26.0	36.9	48	10	6	4	4
8 x 8	28.0	39.8	48	10	6	4	4
8 x 8	32.0	45.4	48	10	6	4	4
8 x 8	36.0	51.1	54	10	7	5	5
8 x 8	40.0	56.8	54	10	7	5	5
8 x 8	48.0	68.2	60	12	9	5	5
8 x 8	56.0	79.5	66	12	12	6	5
8 x 8	64.0	90.9	72	12	17	9	6
8 x 8	72.0	102.2	72	14	17	9	6
8 x 8	80.0	113.6	78	14	21	11	7
8 x 8	88.0	125.0	84	14	24	12	8

FOOTING SUMMARY: Soil Bearing Pressure 2500 psf							
Minimum Baseplate (in)	Load Allowable, P x 1000 lbs	Load Factored, Pf x 1000 lbs	Footing Size		Number of Rebar Required Each Direction		
			Sq. Dim., b (in)	Thickness, t (in)	10M	15M	20M
3.5 x 5.25	8.0	11.4	24	9	3	3	---
3.5 x 5.25	10.0	14.2	24	9	3	3	3
3.5 x 5.25	12.0	17.0	30	9	4	3	3
3.5 x 5.25	14.0	19.9	30	9	4	3	3
3.5 x 5.25	16.0	22.7	36	10	5	3	3
3.5 x 5.25	18.0	25.6	36	10	5	3	3
3.5 x 5.25	20.0	28.4	36	10	5	3	3
3.5 x 5.25	22.0	31.2	36	10	5	3	3
3.5 x 5.25	24.0	34.1	42	10	6	4	4
3.5 x 5.25	26.0	36.9	42	10	6	4	4
8 x 8	28.0	39.8	42	10	6	4	4
8 x 8	32.0	45.4	48	10	6	4	4
8 x 8	36.0	51.1	48	10	6	4	4
8 x 8	40.0	56.8	48	10	6	4	4
8 x 8	48.0	68.2	54	12	8	5	5
8 x 8	56.0	79.5	60	12	10	5	5
8 x 8	64.0	90.9	66	14	14	7	5
8 x 8	72.0	102.2	66	14	14	7	5
8 x 8	80.0	113.6	72	14	18	9	6
8 x 8	88.0	125.0	72	14	18	9	6



21-Oct-16

PERMIT TO PRACTICE
MR ENGINEERING LTD.

Date :October 21, 2016

PERMIT NUMBER: P11387
 The Association of Professional Engineers
 And Geoscientists of Alberta

NOTES Concrete to be min. of 20 Mpa (3000 psi) at 28 days. Type 10 or type 50 Portland Cement with max. 20 mm (3/4") aggregate, 75 mm (3") slump
 All rebar to be 400. Rebar to be tied at intersections.
 Load to be applied concentric with footing. Eccentric loading will reduce cap.
 Bars to be equally spaced along length and width of column.
 Soil capacity must be verified by engineer or geotechnical.