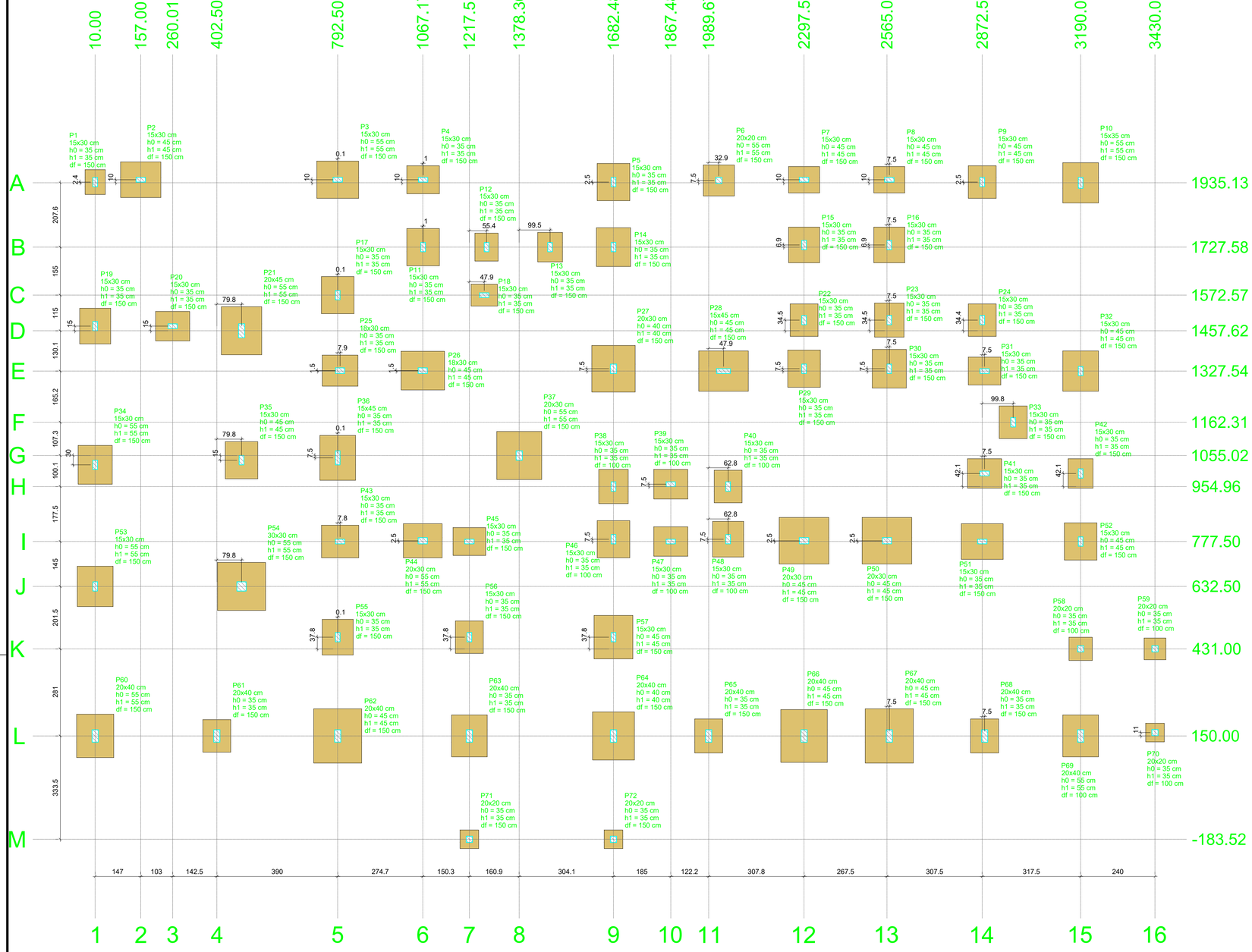


PLANTA DE LOCAÇÃO

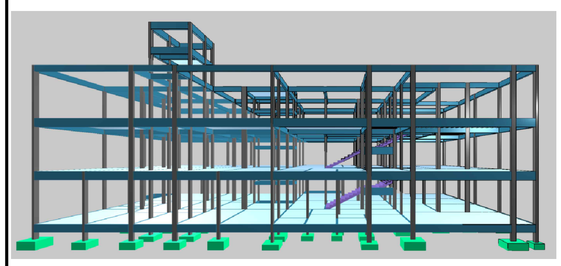
Escala 1:75

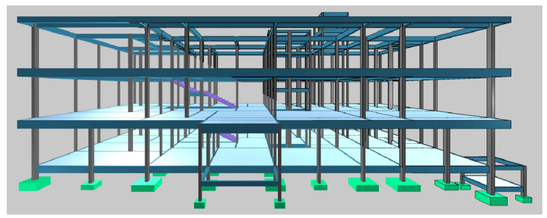
Pilar												Fundação				
Nome	Seção (cm)	X (cm)	Y (cm)	Carga Máx. (tf)	Carga Mín. (tf)	Mx Máximo (kgf.m) Positivo	Mx Máximo (kgf.m) Negativo	My Máximo (kgf.m) Positivo	My Máximo (kgf.m) Negativo	Fx Máximo (tf) Positivo	Fx Máximo (tf) Negativo	Fy Máximo (tf) Positivo	Fy Máximo (tf) Negativo	Lado B (cm)	Lado H (cm)	h0 / ha (cm)	h1 / hb (cm)	df (cm)
P1	15x30	10.00	1937.50	7.1	4.1	0	-1100	200	-200	0.2	-0.1	1.4	0.0	65	80	35	35	150
P2	15x30	157.00	1945.13	33.3	21.7	100	-200	0	-1400	0.0	-2.4	0.1	0.0	115	130	45	45	150
P3	15x30	792.64	1945.13	33.8	24.2	0	-400	1500	0	2.7	0.0	0.7	0.0	120	135	55	55	150
P4	15x30	1068.21	1945.13	19.4	14.5	200	-200	0	-1000	0.0	-1.6	0.4	-0.1	90	105	35	35	150
P5	15x30	1682.50	1937.63	27.9	19.0	400	-600	300	0	0.5	0.0	0.7	-0.3	105	120	35	35	150
P6	20x20	2022.53	1942.63	17.0	11.9	0	-1700	200	-300	0.2	-0.2	3.0	0.0	100	100	55	55	150
P7	15x30	2297.51	1945.13	18.3	13.3	100	-400	400	-300	0.5	-0.5	0.4	-0.2	85	100	45	45	150
P8	15x30	2572.50	1945.13	20.2	14.8	100	-400	400	-300	0.5	-0.5	0.4	-0.2	85	100	45	45	150
P9	15x30	2872.51	1937.63	15.7	11.0	0	-1400	200	-100	0.2	-0.3	2.1	0.0	90	105	45	45	150
P10	15x35	3190.00	1935.13	26.4	19.7	0	-1900	200	0	0.3	0.0	3.2	0.0	115	130	55	55	150
P11	15x30	1068.18	1727.58	29.0	21.2	200	-900	100	-100	0.1	-0.3	1.3	0.0	105	120	35	35	150
P12	15x30	1272.94	1727.58	13.6	8.6	800	-400	200	-200	0.3	0.0	0.1	-1.2	75	90	35	35	150
P13	15x30	1477.87	1727.57	15.8	11.0	500	-500	100	-100	0.1	-0.2	0.5	-0.4	80	95	35	35	150
P14	15x30	1682.51	1727.57	33.2	21.5	300	-1100	200	-200	0.2	-0.1	1.4	-0.1	110	125	35	35	150
P15	15x30	2297.51	1734.51	25.9	19.1	500	-800	100	0	0.1	0.0	0.9	-0.6	100	115	35	35	150
P16	15x30	2572.50	1734.51	26.5	19.5	500	-800	100	0	0.1	0.0	0.9	-0.4	100	115	35	35	150
P17	15x30	792.64	1572.57	29.9	21.6	700	-400	0	-300	0.0	-0.7	0.3	-0.9	105	120	35	35	150
P18	15x30	1265.44	1572.57	12.7	6.2	200	-200	600	-100	0.7	0.0	0.4	-0.1	70	85	35	35	150
P19	15x30	10.00	1472.62	27.0	19.9	500	-600	100	-300	0.1	-0.3	0.7	-0.6	100	115	35	35	150
P20	15x30	260.01	1472.62	23.8	15.0	100	-200	500	-400	0.7	-0.2	0.1	0.0	95	110	35	35	150
P21	20x45	482.29	1457.62	43.6	28.1	300	-2900	400	-300	0.4	-0.4	3.0	0.0	130	155	55	55	150
P22	15x30	2297.51	1492.07	22.1	16.3	600	-700	100	-300	0.1	-0.2	0.7	-0.7	90	105	35	35	150
P23	15x30	2572.50	1492.07	24.0	18.1	600	-700	200	-200	0.2	-0.1	0.6	-0.9	95	110	35	35	150
P24	15x30	2872.51	1492.06	19.4	11.8	900	-400	200	-200	0.3	0.0	0.1	-1.3	90	105	35	35	150
P25	18x30	800.37	1329.03	28.7	17.7	300	-500	300	-400	0.2	-0.3	0.6	-0.4	100	115	35	35	150
P26	18x30	1067.17	1329.03	44.4	28.4	100	-200	0	-800	0.0	-1.5	0.1	-0.3	125	140	45	45	150
P27	20x30	1682.51	1335.03	50.9	33.8	700	-700	500	-200	0.8	0.0	0.5	-0.9	140	150	40	40	150
P28	15x45	2037.53	1327.54	47.1	29.8	900	0	1300	-600	1.5	0.0	0.0	-1.6	130	160	45	45	150
P29	15x30	2297.50	1335.04	30.5	19.2	200	-1200	100	-300	0.2	-0.2	1.6	0.0	105	120	35	35	150
P30	15x30	2572.50	1335.04	32.0	19.3	200	-1100	200	0	0.3	0.0	1.7	0.0	110	125	35	35	150
P31	15x30	2880.00	1327.53	22.7	16.4	100	-400	100	-600	0.0	-0.8	0.4	-0.2	90	105	35	35	150
P32	15x30	3190.00	1327.53	31.8	24.5	1000	-100	300	0	0.4	0.0	0.0	-1.7	115	130	45	45	150
P33	15x30	2972.34	1162.31	18.2	14.6	400	-600	100	-300	0.0	-0.4	0.8	-0.5	90	105	35	35	150
P34	15x30	10.00	1025.00	29.0	20.2	600	-600	0	-700	0.0	-1.4	0.4	-0.9	110	125	55	55	150
P35	15x30	482.28	1040.00	28.5	17.8	300	-1100	500	0	0.0	0.0	0.0	-1.3	105	120	45	45	150
P36	15x45	792.64	1047.53	36.6	23.4	1300	-1400	0	-800	0.0	-1.4	1.0	-1.4	115	145	35	35	150
P37	20x30	1378.36	1055.02	49.2	32.9	1100	-200	1500	0	2.7	0.0	0.0	-1.7	145	155	55	55	150
P38	15x30	1682.48	954.96	24.8	14.6	200	-700	100	-200	0.1	-0.1	1.0	0.0	95	110	35	35	100
P39	15x30	1867.48	962.46	25.3	16.4	100	-200	300	-200	0.5	-0.3	0.1	0.0	95	110	35	35	100
P40	15x30	2052.48	955.00	23.0	12.5	200	-600	100	0	0.2	0.0	0.6	-0.2	90	105	35	35	100
P41	15x30	2880.00	997.08	25.0	16.5	200	-300	100	-600	0.0	-0.8	0.3	-0.3	95	110	35	35	150
P42	15x30	3190.00	997.08	14.4	12.0	500	-600	300	0	0.5	0.0	0.7	-0.6	95	95	35	35	150
P43	15x30	800.25	777.50	29.2	20.0	100	-300	200	-400	0.1	-0.5	0.5	-0.2	105	120	35	35	150
P44	20x30	1067.17	780.00	30.7	21.9	400	0	800	-400	1.1	-0.3	0.0	-0.5	110	125	55	55	150
P45	15x30	1217.51	777.50	20.4	12.5	100	-300	200	-800	0.0	-1.2	0.6	0.0	90	105	35	35	150
P46	15x30	1682.50	785.00	32.8	21.0	300	-400	100	-100	0.0	-0.2	0.4	-0.5	105	120	35	35	100
P47	15x30	1867.48	777.50	24.5	15.3	100	-100	400	-200	0.5	-0.4	0.2	0.0	95	110	35	35	100
P48	15x30	2052.48	785.00	29.9	17.2	200	-600	100	0	0.2	0.0	0.7	-0.3	100	115	35	35	100
P49	20x30	2297.50	780.00	52.5	36.8	0	-1200	500	-400	0.5	-0.4	1.9	0.0	150	160	45	45	150
P50	20x30	2565.00	780.00	56.2	38.9	0	-1000	400	-700	0.3	-0.7	1.8	0.0	150	160	45	45	150
P51	15x30	2872.50	777.50	38.2	25.7	200	-300	300	-400	0.2	-0.7	0.2	-0.3	115	135	35	35	150
P52	15x30	3190.00	777.50	28.8	20.9	300	-800	300	0	0.5	0.0	1.2	-0.1	105	120	45	45	150
P53	15x30	10.00	632.50	30.7	22.2	300	-900	0	-600	0.0	-1.2	1.3	0.0	115	130	55	55	150
P54	30x30	482.33	632.50	55.3	34.9	300	-800	1200	-200	1.7	0.0	0.5	0.0	155	155	55	55	150
P55	15x30	792.64	468.75	25.3	15.8	500	-800	100	0	0.1	0.0	0.9	-0.4	100	115	35	35	150
P56	15x30	1217.50	468.75	18.5	10.8	500	-600	100	0	0.0	0.0	0.8	-0.5	90	105	35	35	150
P57	15x30	1682.49	468.75	41.9	27.5	500	-800	100	0	0.1	0.0	0.8	-0.5	125	140	45	45	150
P58	20x20	3190.00	431.00	12.2	8.3	0	-300	100	-100	0.1	-0.4	0.5	0.0	75	75	35	35	100
P59	20x20	3430.00	431.00	2.5	1.8	0	-200	300	0	0.5	0.0	0.6	0.0	70	70	35	35	100
P60	20x40	10.00	150.00	37.0	27.3	1600	-600	0	-700	0.0	-1.1	0.6	-2.1	120	140	55	55	150
P61	20x40	402.50	150.00	19.2	12.5	700	-1000	300	-200	0.4	-0.4	0.3	-0.1	90	105	35	35	150
P62	20x40	792.50	150.00	67.9	48.7	1500	-600	500	-100	0.7	0.0	0.0	-1.8	155	175	45	45	150
P63	20x40	1217.50	150.00	37.1	27.0	1300	-800	100	-600	0.0	-0.8	0.0	-1.3	115	135	35	35	150
P64	20x40	1682.50	150.00	51.5	37.5	1400	-700	500	-100	0.6	0.0	0.0	-1.6	135	155	40	40	150
P65	20x40	1989.67	150.00	21.4	14.8	700	-1100	300	-300	0.3	-0.5	0.2	-0.1	90	110	35	35	150
P66	20x40	2297.50	150.00	52.6	38.8	3600	0	400	-200	0.4	-0.4	0.0	-6.7	150	170	45	45	150
P67	20x40	2572.50	150.00	57.5	42.5	3700	0	300	-400	0.3	-0.5	0.0	-6.8	155	175	45	45	150
P68	20x40	2880.00	150.00	21.8	15.0	700	-1000	300	-400	0.4	-0.3	0.1	-0.2	90	110	35	35	150
P69	20x40	3190.00	150.00	36.9	28.2	700	-600	200	-300	0.2	-0.3	0.0	-0.9	115	135	55	55	100
P70	20x20	3430.00	161.00	2.4	1.8	200	-200	300	0	0.6	0.0	0.0	-0.5	60	60	35	35	100
P71	20x20	1217.50	-183.52	4.6	3.2	100	-200	200	-100	0.1	-0.1	0.2	0.0	60	60	35	35	150
P72	20x20	1682.51	-183.52	5.3	3.7	100	-200	200	-200	0.2	-0.2	0.2	0.0	60	60	35	35	150

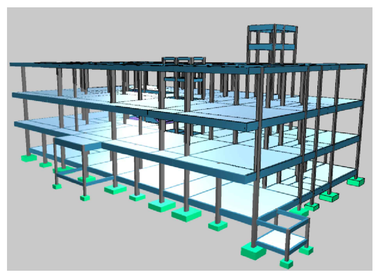
Os esforços indicados nesta tabela são os valores máximos obtidos pela envoltória de todas as combinações definidas para as fundações. Para análises complementares, deve-se consultar o relatório de esforços na fundação, que apresenta os valores calculados para cada combinação.

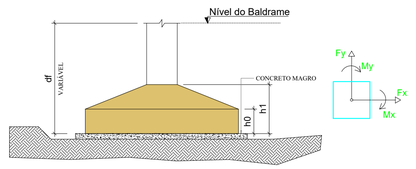
Locação no eixo X	
Coordenadas (cm)	Nome
10.00	P1, P19, P34, P53, P60
157.00	P2
260.01	P20
402.50	P61
482.28	P35
482.29	P21
482.33	P54
792.50	P62
792.64	P3, P17, P36, P55
800.25	P43
800.37	P25
1067.17	P26, P44
1068.18	P11
1068.21	P4
1217.51	P45
1217.50	P56, P63, P71
1265.44	P18
1272.94	P12
1378.36	P37
1477.87	P13
1682.48	P38
1682.50	P5
1682.51	P14, P27
1682.50	P46
1682.49	P57
1682.50	P64
1682.51	P72
1867.48	P39, P47
1989.67	P65
2022.53	P6
2037.53	P28
2052.48	P40, P48
2297.50	P29, P49, P66
2297.51	P7, P15, P22
2565.00	P50
2572.50	P8, P16, P23, P30, P67
2872.50	P51
2872.51	P9, P24
2880.00	P31, P41, P68
2972.34	P33
3190.00	P10, P32, P42, P52, P58, P69
3430.00	P59, P70

Locação no eixo Y	
Coordenadas (cm)	Nome
1945.13	P2, P3, P4, P7, P8
1942.63	P6
1937.63	P5, P9
1937.50	P1
1935.13	P10
1734.51	P15, P16
1727.58	P11, P12
1727.57	P13, P14
1572.57	P17, P18
1492.07	P22, P23
1492.06	P24
1472.62	P19, P20
1457.62	P21
1335.03	P27
1335.04	P29, P30
1329.03	P25, P26
1327.54	P28
1327.53	P31, P32
1162.31	P33
1055.02	P37
1047.53	P36
1040.00	P35
1025.00	P34
997.08	P41, P42
962.46	P39
955.00	P40
954.96	P38
785.00	P46, P48
780.00	P44, P49, P50
777.50	P43, P45, P47, P51, P52
632.50	P53, P54
468.75	P55, P56, P57
431.00	P58, P59
161.00	P70
150.00	P60, P61, P62, P63, P64, P65, P66, P67, P68, P69
-183.52	P71, P72









NOTAS:

1- AS SAPATAS DEVERÃO SER ASSENTADAS EM SOLO COM TENSÃO ADMISSÍVEL SUPERIOR A 3,00 Kgf/cm2

2- A DEFINIÇÃO DAS COTAS DAS COTAS PARA O ASSENTAMENTO É DE RESPONSABILIDADE DO ENGENHEIRO EXECUTOR

3- EXECUTAR LASTRO DE CONCRETO MAGRO DE 5 cm SOB AS SAPATAS CONFORME DETALHE

4- OS PILARES FORAM PROJETADOS PARA UMA COTA DE ASSENTAMENTO MÁXIMA DE 150 cm , CASO A ALTURA SEJA MAIOR OS PILARES DEVEM SER RECALCULADOS

AMURES — ASSOCIAÇÃO DE MUNICÍPIOS DA REGIÃO SERRANA

PREFEITURA MUNICIPAL DE SÃO JOAQUIM - SC

01 / 29

ASSESSORIA TÉCNICA

MATHEUS LORENZETTI CASAGRANDE:05074344980 44980

Assinado de forma digital por MATHEUS LORENZETTI CASAGRANDE:05074344980 Dados: 2025.10.13 19:31:12 -03'00'

PROJETO: Matheus Lorenzetti Casagrande
Eng. Civil - CREA 165793-1

PREFEITO: José Teodoro de Sena Amaral

OBRA :

CENTRO DE EDUCAÇÃO INFANTIL (CEI) SANTA PAULINA

Projeto Estrutural

Planta de locação das sapatas; 3D estrutura;

Área Total: 1828,80 m²

Localização: Rua Antônio José Alves de Sá ; Bairro: Centro ; CEP:88600-000 ; s/nº

DESENHO : Matheus Lorenzetti Casagrande

Escala: Indicada

DATA : 10/2025