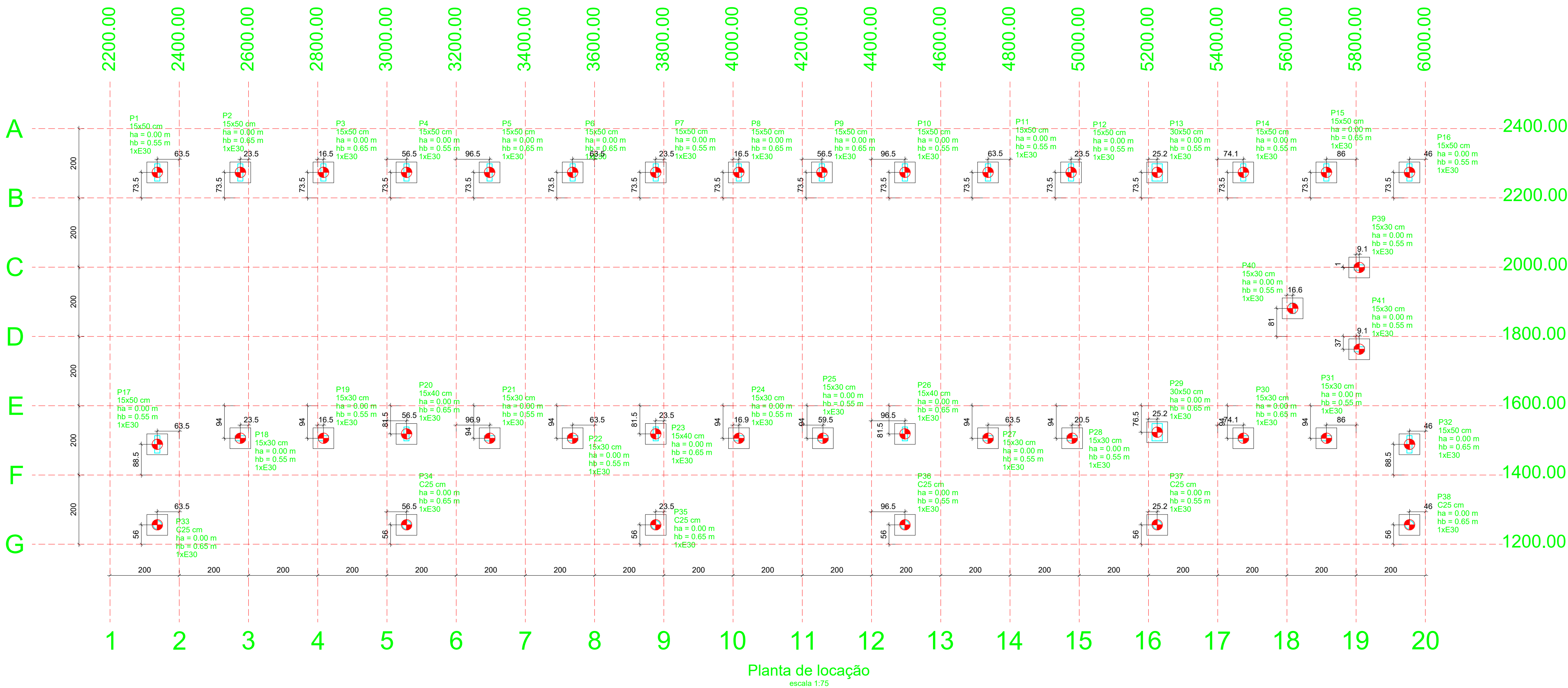
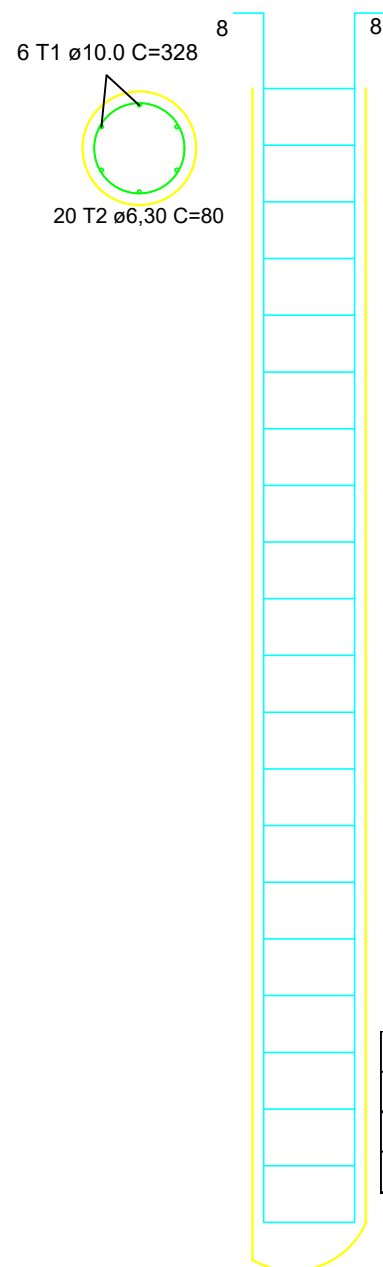




ESTACA HELICE CONTINUA COMPRIMENTO = 7,00 METROS

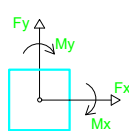
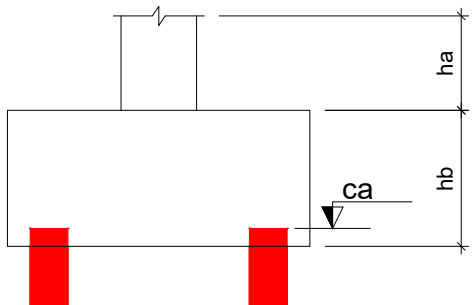


Aço	Bitola	Comprimento Total	Peso (Kg)	Peso + 10% (Kg)
CA60	Ø 6,30 mm	617,95	151,40	166,54
CA50	Ø 10,00 mm	831,48	513,02	564,33
Volume de Concreto		20,28	m³	

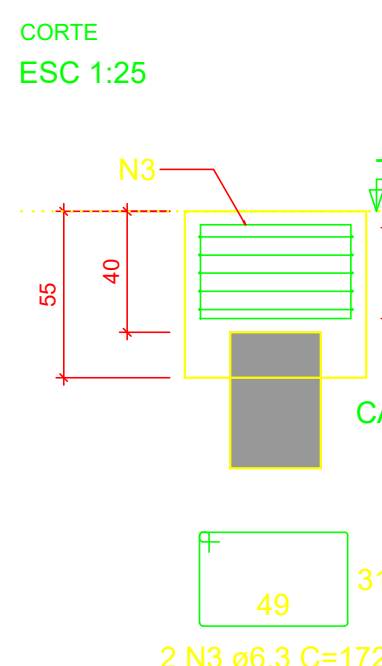
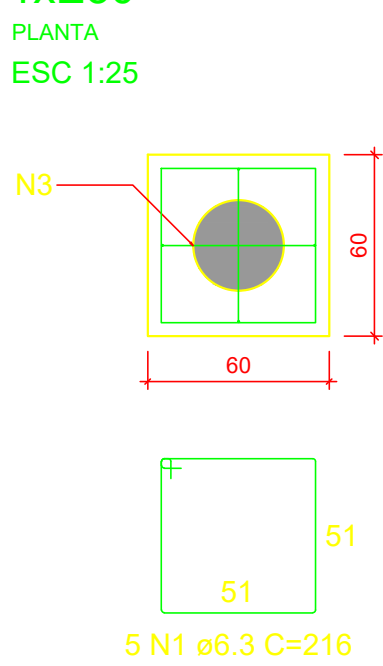
Nome		Seção		X		Y		Carga Máx. (kN)		Carga Mín. (kN)		Pilar				Fundação				Bloco					
												Mx Máximo (kN.m)		My Máximo (kN.m)		Fx Máximo (kN)		Fy Máximo (kN)		Lado B	Lado H	h1 / h2	ne	Estaca	ca
												Positivo	Negativo	Positivo	Negativo	Positivo	Negativo	Positivo	Negativo	(cm)	(cm)	(m)	(m)		(m)
P1	15x50	2336.50	2273.50	81	72	0	0	0	0	0	0	0	0	0	-2	8	0	60	60	0.00	0.65	1	E30	-0.90	
P2	15x50	2576.50	2273.50	95	87	0	0	0	0	0	0	0	0	0	-1	0	13	0	60	60	0.00	0.65	1	E30	-1.00
P3	15x50	2816.50	2273.50	93	85	0	0	0	0	0	0	0	0	0	1	0	12	0	60	60	0.00	0.65	1	E30	-1.00
P4	15x50	3056.50	2273.50	108	97	0	0	0	0	0	0	0	0	0	1	0	6	0	60	60	0.00	0.55	1	E30	-0.90
P5	15x50	3296.50	2273.50	93	86	0	0	0	0	0	0	0	0	0	1	0	12	0	60	60	0.00	0.65	1	E30	-1.00
P6	15x50	3536.50	2273.50	93	86	0	0	0	0	0	0	0	0	0	1	0	12	0	60	60	0.00	0.65	1	E30	-1.00
P7	15x50	3776.50	2273.50	108	97	0	0	0	0	0	0	0	0	0	1	0	6	0	60	60	0.00	0.55	1	E30	-0.90
P8	15x50	4016.50	2273.50	94	86	0	0	0	0	0	0	0	0	0	1	0	12	0	60	60	0.00	0.65	1	E30	-1.00
P9	15x50	4256.50	2273.50	93	86	0	0	0	0	0	0	0	0	0	1	0	12	0	60	60	0.00	0.65	1	E30	-1.00
P10	15x50	4496.50	2273.50	108	98	0	0	0	0	0	0	0	0	0	1	0	6	0	60	60	0.00	0.55	1	E30	-0.90
P11	15x50	4736.50	2273.50	94	86	0	0	0	0	0	0	0	0	0	1	0	12	0	60	60	0.00	0.55	1	E30	-0.90
P12	15x50	4976.50	2273.50	93	85	0	0	0	0	0	0	0	0	0	1	0	12	0	60	60	0.00	0.55	1	E30	-0.90
P13	30x50	5225.24	2273.50	130	115	0	0	0	0	0	0	0	0	0	2	-2	8	0	60	60	0.00	0.55	1	E30	-0.90
P14	15x50	5474.05	2273.50	97	88	0	0	0	0	0	0	0	0	0	1	0	10	0	60	60	0.00	0.55	1	E30	-0.90
P15	15x50	5714.05	2273.50	100	92	0	0	0	0	0	0	0	0	0	1	0	8	0	60	60	0.00	0.65	1	E30	-1.00
P16	15x50	5954.05	2273.50	79	70	0	0	0	0	0	0	0	0	0	1	0	7	0	60	60	0.00	0.55	1	E30	-0.90
P17	15x50	2336.50	1488.50	72	56	0	0	0	0	0	0	0	0	0	0	0	-27	60	60	0.00	0.55	1	E30	-0.90	
P18	15x30	2576.50	1506.00	59	53	0	0	0	0	0	0	0	0	0	0	0	-2	60	60	0.00	0.55	1	E30	-0.90	
P19	15x30	2816.50	1506.00	67	59	0	0	0	0	0	0	0	0	0	2	0	0	-5	60	60	0.00	0.55	1	E30	-0.90
P20	15x40	3056.50	1518.50	95	81	0	0	0	0	0	0	0	0	0	1	0	0	-18	60	60	0.00	0.65	1	E30	-1.00
P21	15x30	3296.87	1506.00	60	53	0	0	0	0	0	0	0	0	0	3	0	0	0	60	60	0.00	0.55	1	E30	-0.90
P22	15x30	3536.50	1506.00	66	59	0	0	0	0	0	0	0	0	0	0	-1	0	-5	60	60	0.00	0.55	1	E30	-0.90
P23	15x40	3776.50	1518.50	95	81	0	0	0	0	0	0	0	0	0	1	0	0	-16	60	60	0.00	0.65	1	E30	-1.00
P24	15x30	4016.87	1506.00	60	54	0	0	0	0	0	0	0	0	0	2	0	0	0	60	60	0.00	0.55	1	E30	-0.90
P25	15x30	4259.50	1506.00	66	59	0	0	0	0	0	0	0	0	0	0	-1	0	-5	60	60	0.00	0.55	1	E30	-0.90
P26	15x40	4496.50	1518.50	95	81	0	0	0	0	0	0	0	0	0	1	0	0	-17	60	60	0.00	0.65	1	E30	-1.00
P27	15x30	4736.50	1506.00	60	54	0	0	0	0	0	0	0	0	0	3	0	1	0	60	60	0.00	0.55	1	E30	-0.90
P28	15x30	4979.50	1506.00	66	60	0	0	0	0	0	0	0	0	0	0	-1	0	-5	60	60	0.00	0.55	1	E30	-0.90
P29	30x50	5225.24	1523.50	125	112	0	0	0	0	0	0	0	0	0	0	-2	0	-24	60	60	0.00	0.65	1	E30	-1.00
P30	15x30	5474.05	1506.00	66	58	0	0	0	0	0	0	0	0	0	1	-1	2	0	60	60	0.00	0.65	1	E30	-1.00
P31	15x30	5714.05	1506.00	66	61	0	0	0	0	0	0	0	0	0	2	0	3	0	60	60	0.00	0.55	1	E30	-0.90
P32	15x50	5954.05	1488.50	71	57	0	0	0	0	0	0	0	0	0	1	0	0	-20	60	60	0.00	0.65	1	E30	-1.00
P33	C25	2336.50	1256.00	76	52	0	0	0	0	0	0	0	0	0	-12	0	0	-11	60	60	0.00	0.65	1	E30	-1.00
P34	C25	3056.50	1256.00	93	76	0	0	0	0	0	0	0	0	0	3	0	0	-8	60	60	0.00	0.65	1	E30	-1.00
P35	C25	3776.50	1256.00	90	74	0	0	0	0	0	0	0	0	0	1	-2	0	-9	60	60	0.00	0.65	1	E30	-1.00
P36	C25	4496.50	1256.00	90	74	0	0	0	0	0	0	0	0	0	1	-2	0	-9	60	60	0.00	0.55	1	E30	-0.90
P37	C25	5225.24	1256.00	91	76	0	0	0	0	0	0	0	0	0	0	-2	0	-7	60	60	0.00	0.55	1	E30	-0.90
P38	C25	5954.05	1256.00	71	51	0	0	0	0	0	0	0	0	0	11	0	0	-7	60	60	0.00	0.65	1	E30	-1.00
P39	15x30	5809.05	1999.00	27	26	0	0	0	0	0	0	0	0	0	0	-7	2	0	60	60	0.00	0.55	1	E30	-0.90
P40	15x30	5616.55	1881.00	49	47	0	0	0	0	0	0	0	0	0	4	0	0	-5	60	60	0.00	0.55	1	E30	-0.90
P41	15x30	5809.05	1763.00	29	26	0	0	0	0	0	0	0	0	0	0	-6	0	-3	60	60	0.00	0.55	1	E30	-0.90

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.

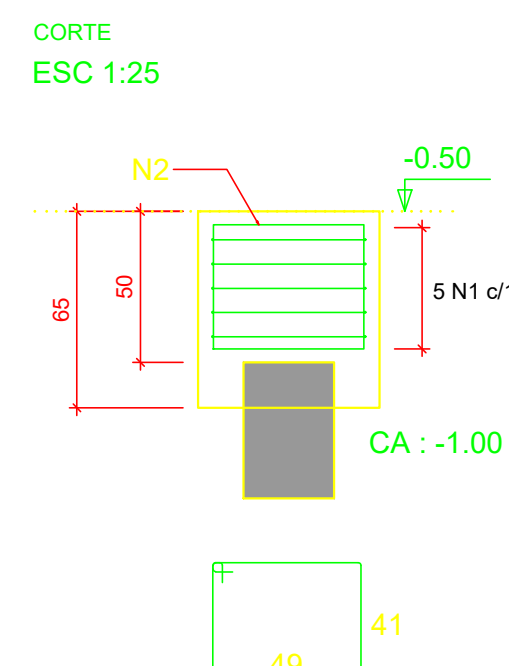
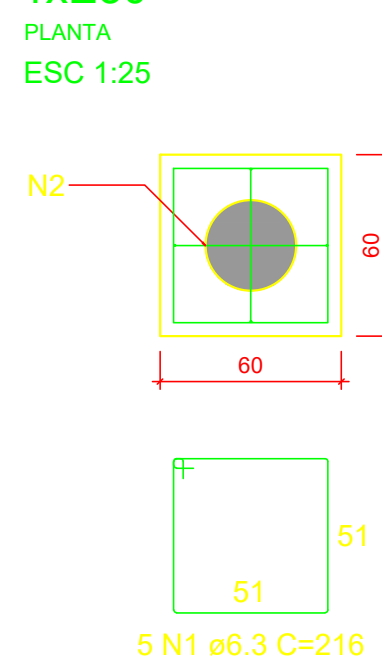
Estacas		
Simbologia	Nome	Quantidade
	E30	41



B1=B4=B7=B10=B11=B12=B13=B14=B16=B17
=B18=B19=B21=B22=B24=B25=B27=B28=B31
=B36=B37=B39=B40=B41
1xE30
PLANTA
ESC 1:25



B2=B3=B5=B6=B8=B9=B15=B20=B23=B26=B29
=B30=B32=B33=B34=B35=B38
1xE30
PLANTA
ESC 1:25



RELAÇÃO DO AÇO

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	205	216	44280
	2	6.3	34	192	6528
	3	6.3	48	172	8256

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10% (Barras)	PESO + 10% (kg)
CA50	6.3	590.6	55	159
PESO TOTAL (kg)				
CA50	159			

Volume de concreto (C-25) = 8.30 m³
Área de forma = 58.20 m²



PROJETO	RESPONSÁVEL TÉCNICO
	Eng. Mano Marques Ribeiro CREA: MG 48900/D
CLIENTE	
EMPREENHIMENTO	
IMPLANTAÇÃO DA ESCOLA NOVA	
ENDEREÇO	DISCIPLINA
RUA 06, S/N - B. Luiz Rennó Mendes. SANTA RITA DO SAPUCAÍ - MINAS GERAIS	ESTRUTURAL
ASSUNTO	FASE DO PROJETO
BLOCO F LOCAÇÃO DAS ESTACAS E DET. FUNDAÇÕES. PLANTA BAIXA E CORTES	EXECUTIVO
	FOLHA Nº
	50
DATA INICIAL	ESCALA
17/10/2019	INDICADA
REVISÃO	ARQUIVO
R00	FAPEPE-FMSRS-ESC-PE-EST-R00 - NVV.DWG