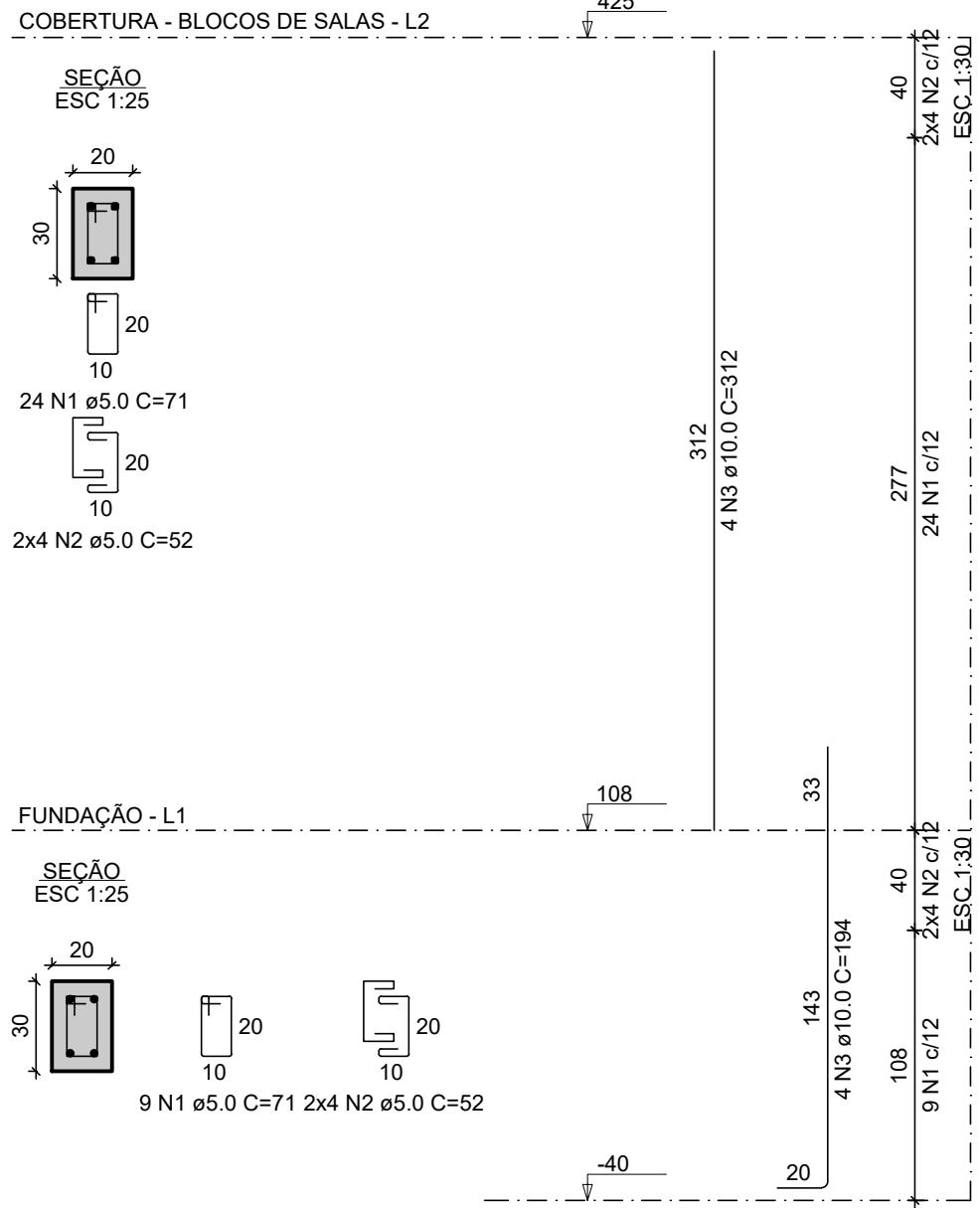
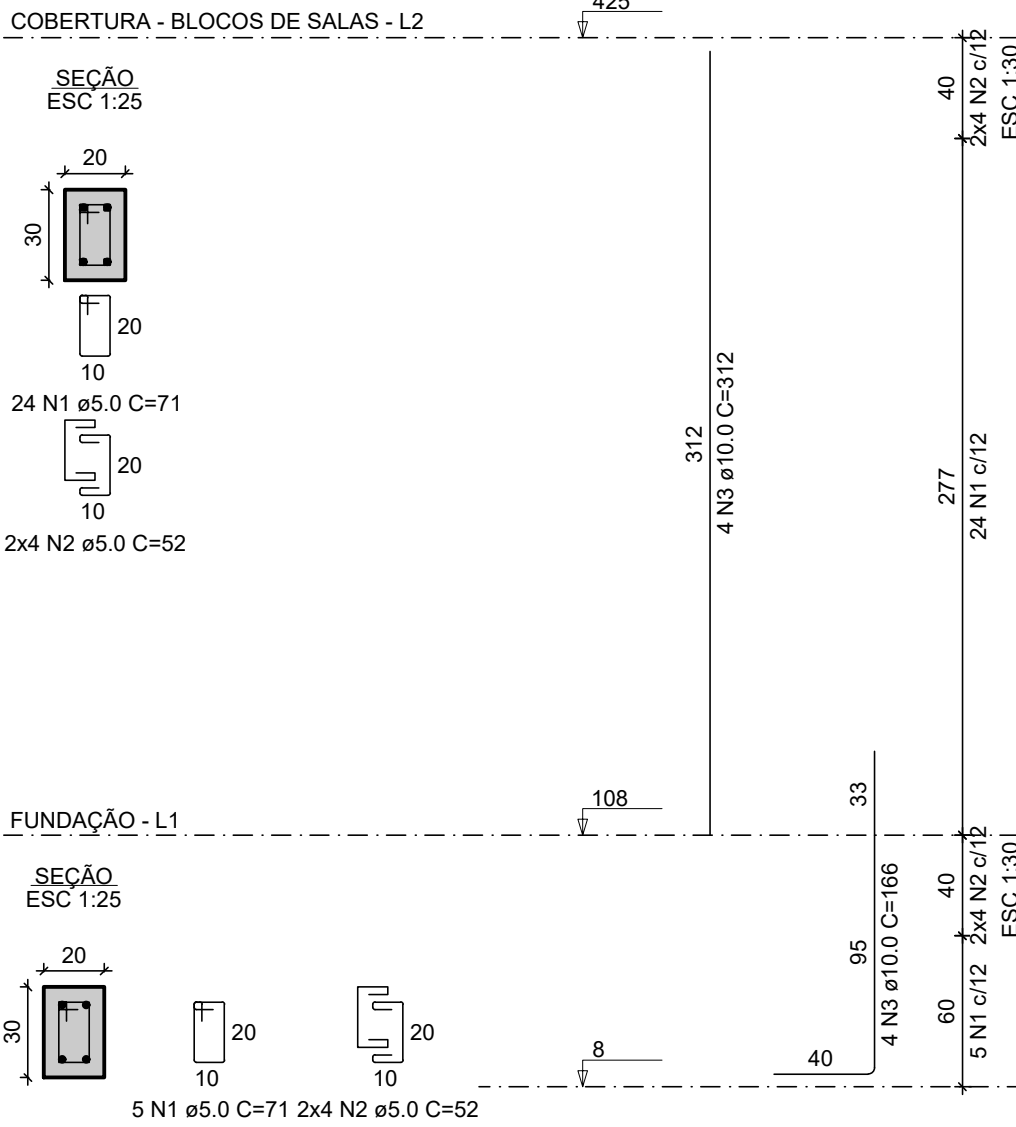


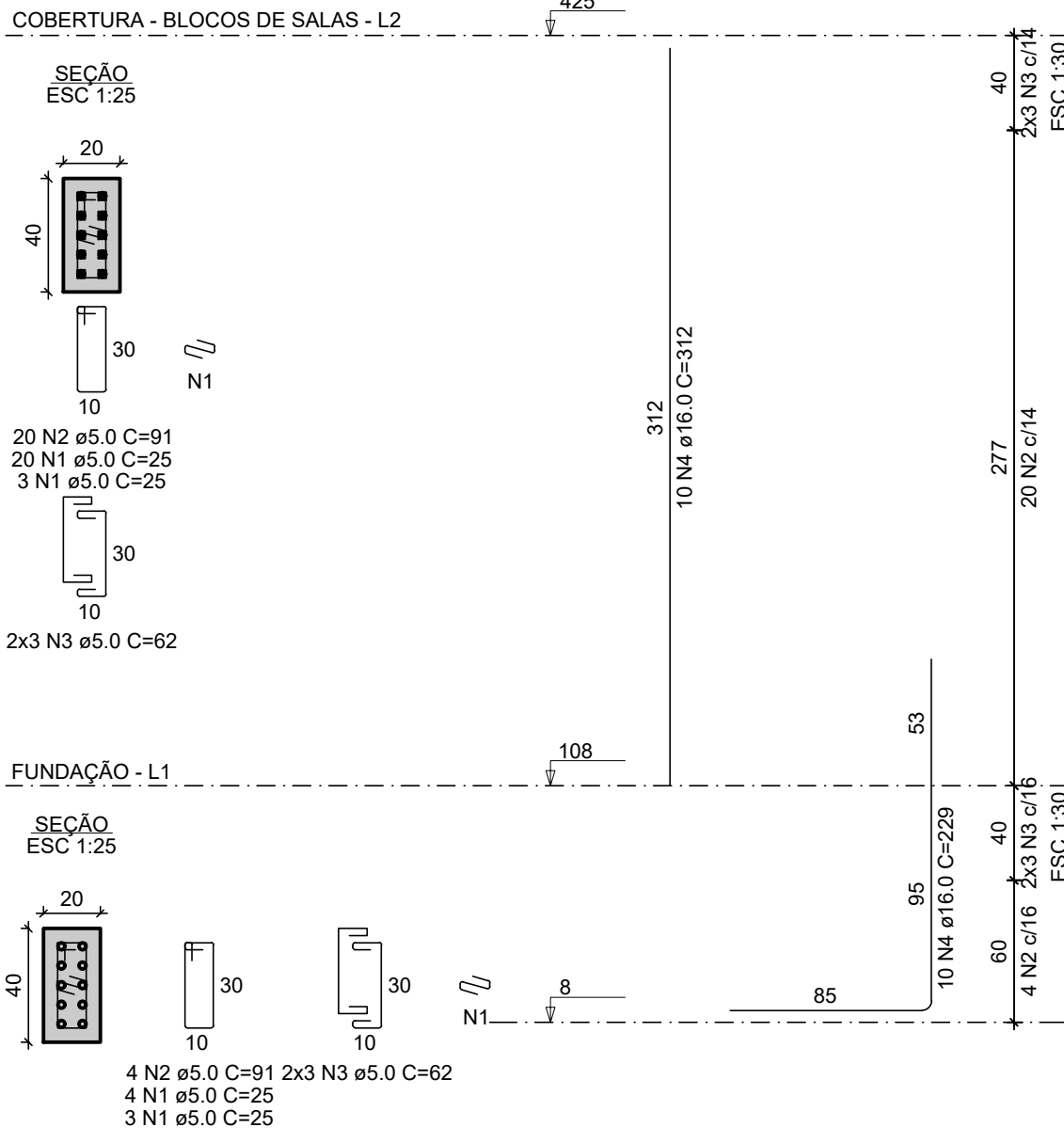
P46=P50=P78=P88



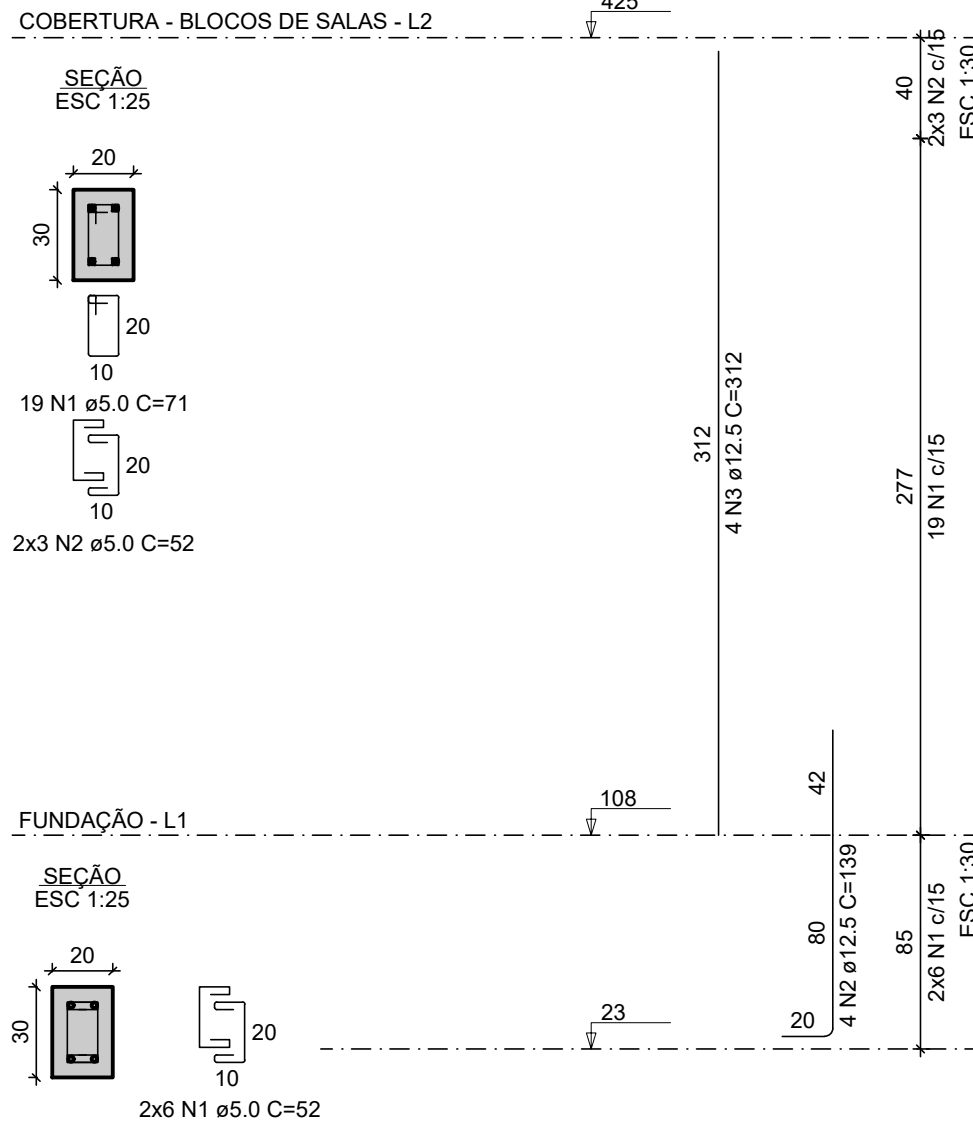
P47=P75



P53=P63



P54



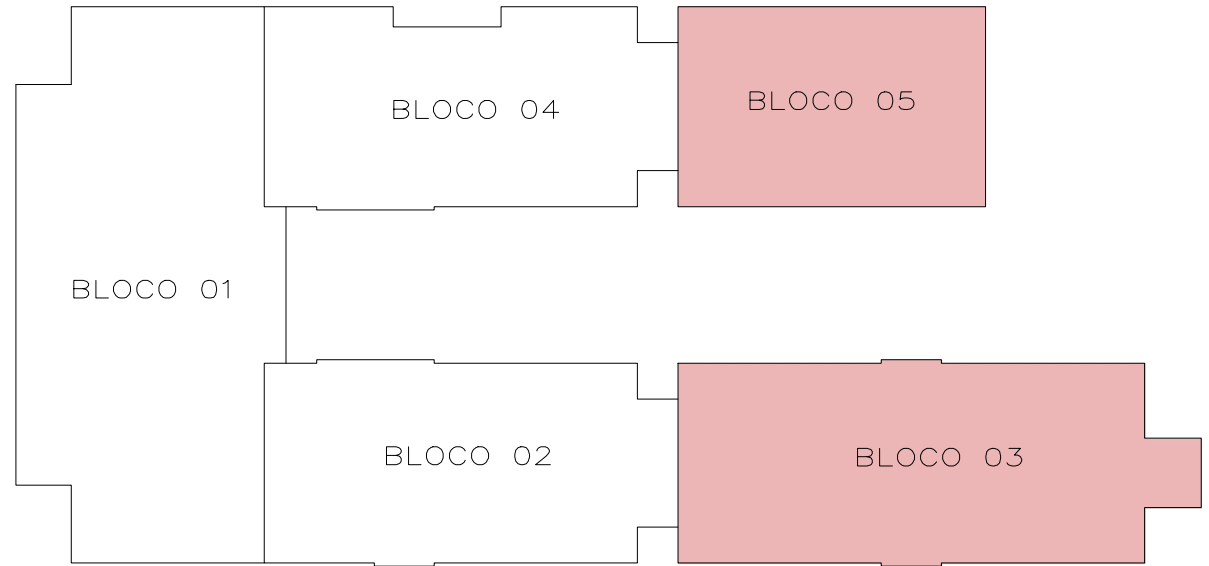
RELAÇÃO DO AÇO

ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
4xP46-L2	CA80	1	5.0	96	71	6816
	CA60	2	5.0	52	52	1040
	CA50	3	10.0	16	312	4992
4xP46-L1	CA80	1	5.0	36	52	1872
	CA60	2	5.0	32	52	1664
	CA50	3	10.0	16	194	3104
2xP47-L2	CA80	1	5.0	48	71	3408
	CA60	2	5.0	16	52	832
	CA50	3	10.0	8	312	2496
2xP47-L1	CA80	1	5.0	10	71	710
	CA60	2	5.0	16	52	832
	CA50	3	10.0	8	166	1328
2xP53-L2	CA80	1	5.0	46	25	1150
	CA60	2	5.0	40	91	3640
	CA50	3	5.0	12	62	744
2xP53-L1	CA80	1	5.0	14	25	350
	CA60	2	5.0	8	91	728
	CA50	3	5.0	12	62	744
P54-L2	CA80	4	16.0	20	312	6240
	CA60	1	5.0	19	71	1349
	CA50	2	5.0	6	52	312
P54-L1	CA80	3	12.5	4	312	1248
	CA60	1	5.0	12	52	624
	CA50	2	12.5	4	139	558
3xP57-L2	CA80	1	5.0	72	71	5112
	CA60	2	5.0	24	52	1248
	CA50	3	10.0	18	312	5616
3xP57-L1	CA80	1	5.0	42	52	2184
	CA60	2	10.0	6	67	402
	CA50	3	10.0	12	126	1512
P58-L2	CA80	1	5.0	19	71	1349
	CA60	2	5.0	6	52	312
	CA50	3	12.5	4	312	1248
P58-L1	CA80	1	5.0	14	52	728
	CA60	2	10.0	4	88	352
	CA50	3	12.5	4	83	332
P62-L2	CA80	1	5.0	18	71	1278
	CA60	2	5.0	6	52	312
	CA50	3	16.0	6	312	1872
P62-L1	CA80	1	5.0	14	52	728
	CA60	2	10.0	4	88	352
	CA50	3	16.0	6	107	642
P72-L2	CA80	1	5.0	18	71	1278
	CA60	2	5.0	6	52	312
	CA50	3	16.0	6	312	1872
P72-L1	CA80	1	5.0	10	52	520
	CA60	2	16.0	2	107	214
	CA50	3	16.0	4	159	636
2xP73-L3	CA80	1	5.0	98	81	7938
	CA60	2	5.0	24	62	1488
	CA50	3	16.0	12	372	4464
2xP73-L1	CA80	1	5.0	20	62	1240
	CA60	2	16.0	4	107	428
	CA50	3	16.0	8	159	1272
2xP83-L3	CA80	1	5.0	66	25	1650
	CA60	2	5.0	58	95	5510
	CA50	3	5.0	16	64	1024
2xP83-L1	CA80	4	10.0	12	372	4464
	CA60	1	5.0	14	25	350
	CA50	2	5.0	28	64	1792
	CA50	3	10.0	12	126	1512

RESUMO DO AÇO

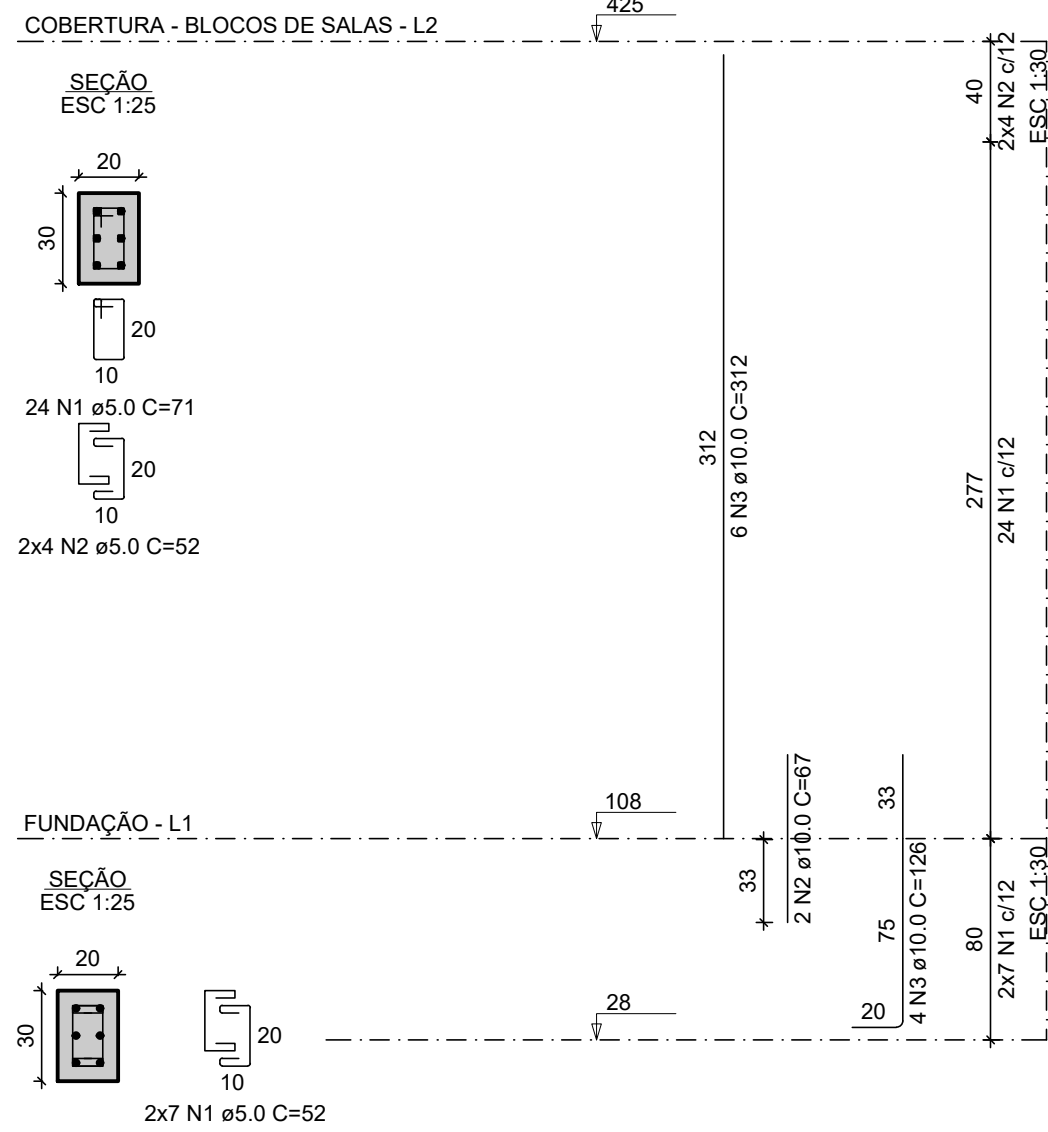
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	261.3	177.2
CA60	12.5	33.8	35.9
CA80	16.0	222.2	385.8
CA50	5.0	644.8	109.3
PESO TOTAL (kg)			
CA50	598.8		
CA60	109.3		

Volume de concreto (C-30) = 4.88 m³
Área de forma = 77.71 m²

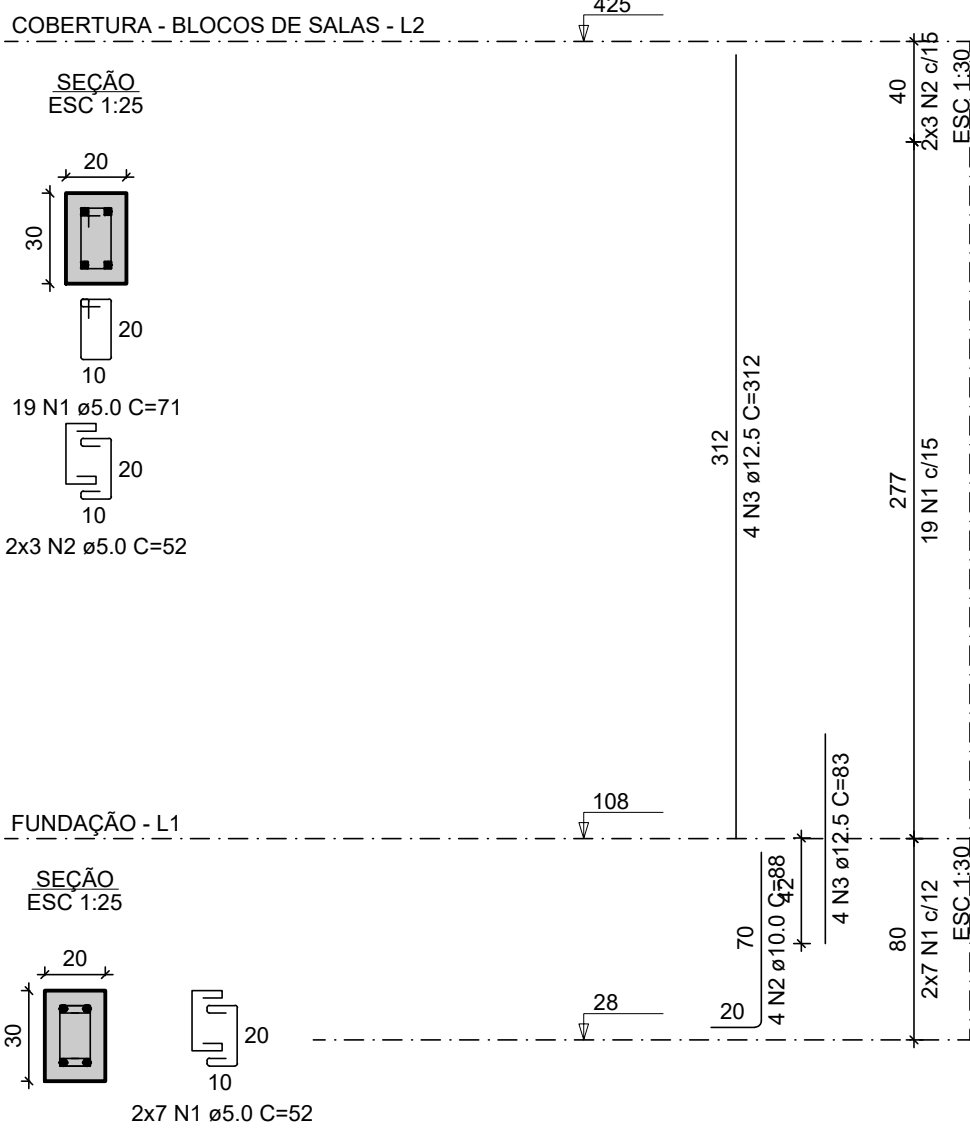


JOSE VILMAR P. DE FRAGA ARQUITETO E URBANISTA
BRUNO REBECHI DALLE MULLE ENGENHEIRO CIVIL
ANA CAROLINA M. SANTOS ARQUITETA E URBANISTA
HENRIQUE RODRIGUES DIAS AUT. ENGENHARIA CIVIL

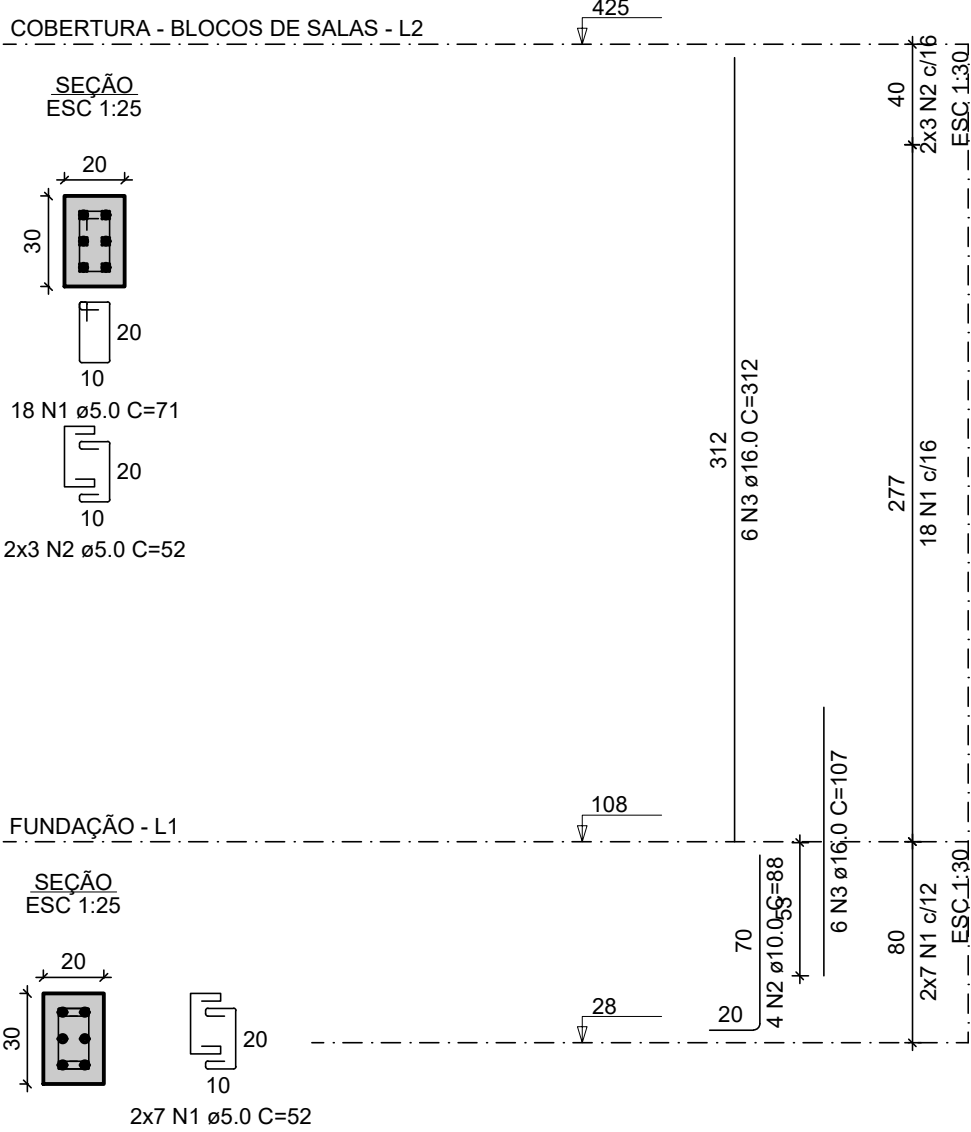
P57=P67=P68



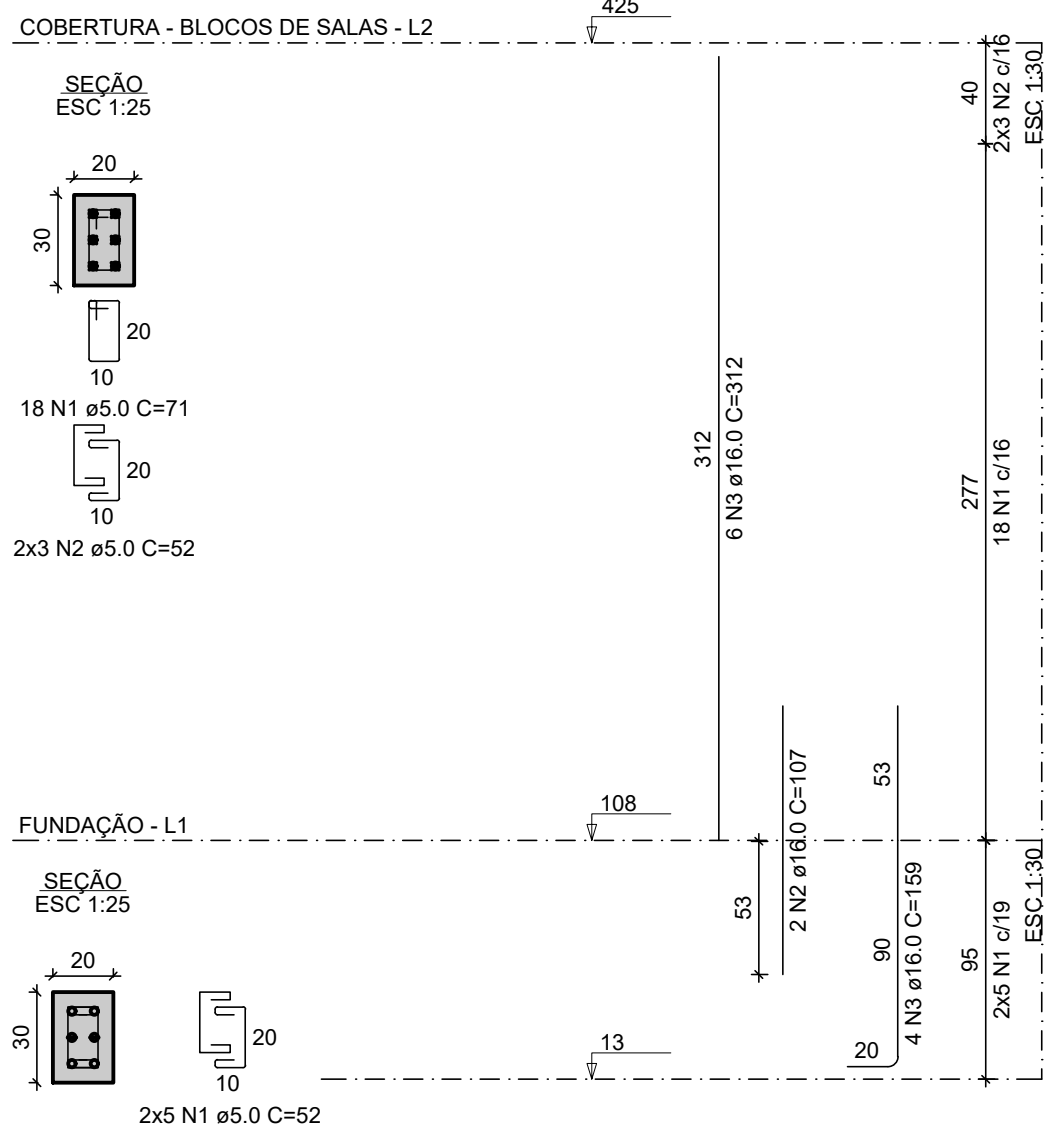
P58



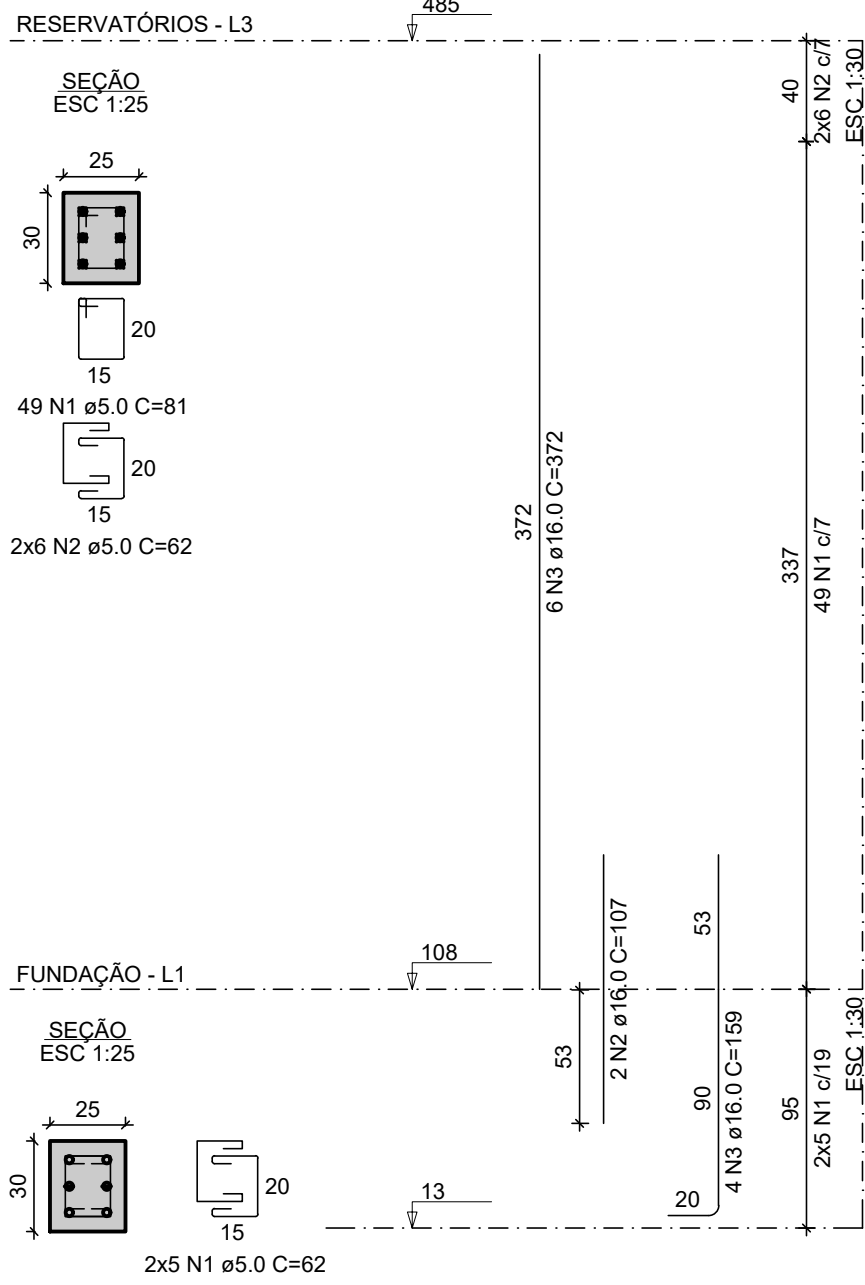
P62



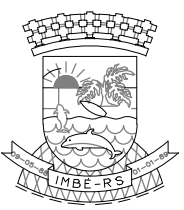
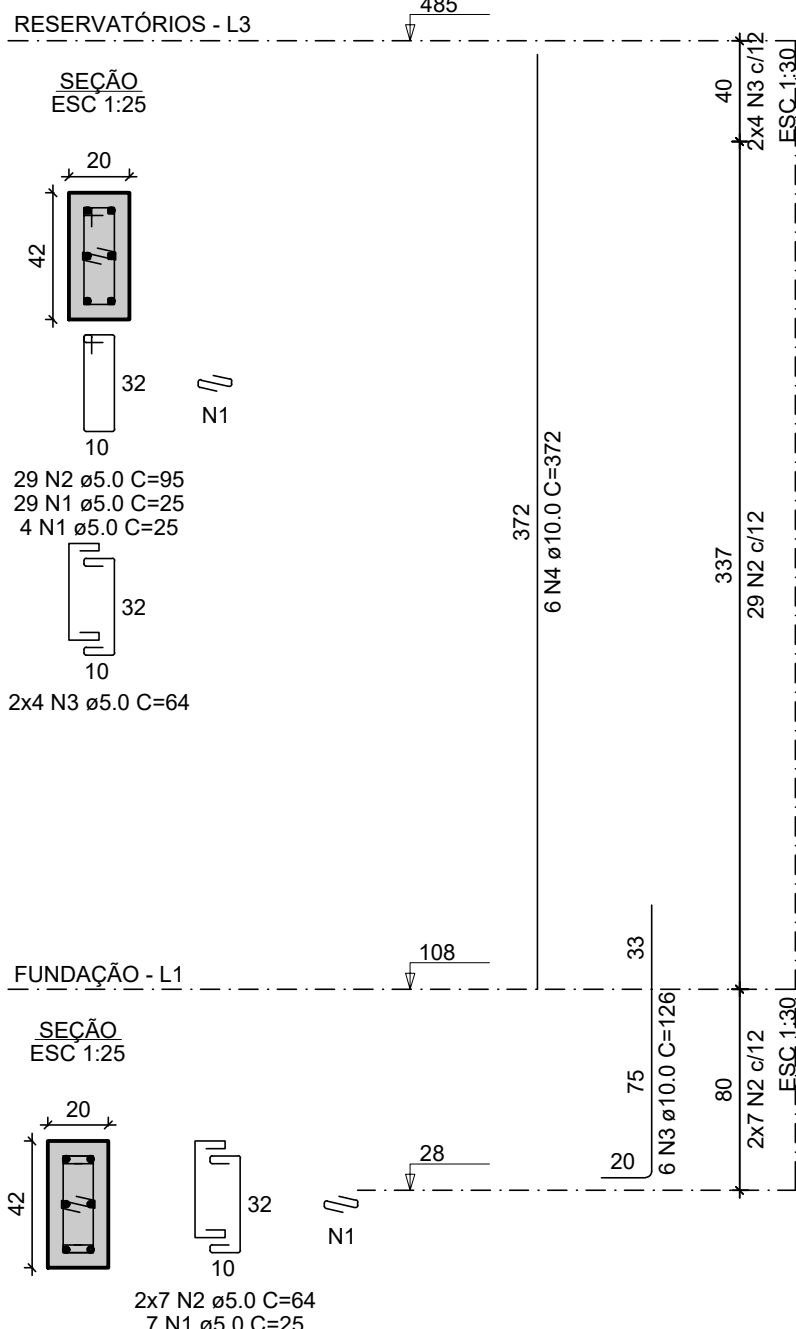
P72



P73=P74



P83=P84



ESTADO DO RIO GRANDE DO SUL
PREFEITURA MUNICIPAL DE IMBÉ
AVENIDA PARAGUASSU, 2070 - CENTRO - IMBÉ - RS
FONE: 51.3627.8515 - CEP: 95.625-000

E. M. E. F. RUI BARBOSA
NOVAS INSTALAÇÕES

BAIRRO MARILUZ - IMBÉ - RS
AVENIDA MARILUZ, 1180
TERRENO URBANO - SETOR 35

ANA CAROLINA MOREIRA SANTOS
ARQUITETA E URBANISTA
CAU A1715046

BRUNO REBECHI DALLE MULLE
CREA-RS 202822

RUTH JOSIELI MONTEIRO BUSCHEL
SECRETARIA MUNICIPAL DE EDUCAÇÃO

ESTRUTURAL
ARMADURA DOS PILARES - BLOCOS 03 E 05 - 02



56/56