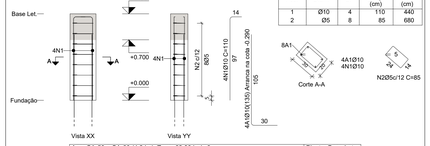
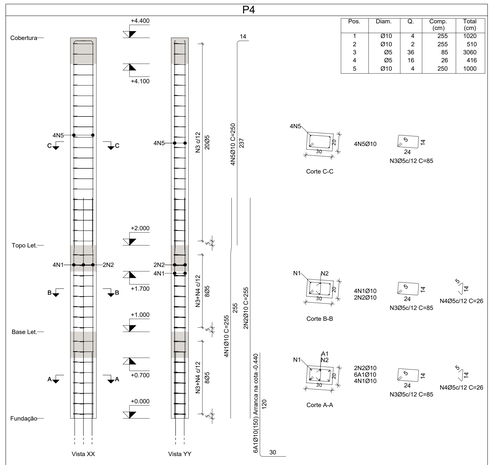
P1



Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
1	Ø10	4	110	440
2	Ø5	8	85	680

Aço: CA-50 e CA-60 (4.2 kg). Taxa: 62.98 kg/m3	Planta: Base Let.
Concreto: C25, em geral (0.06 m3) — Tamanho máximo do agregado: 15 mm	Escala 1:25
Fôrmas: 1.00 m2 — Cobrimento: 3 cm	

P4

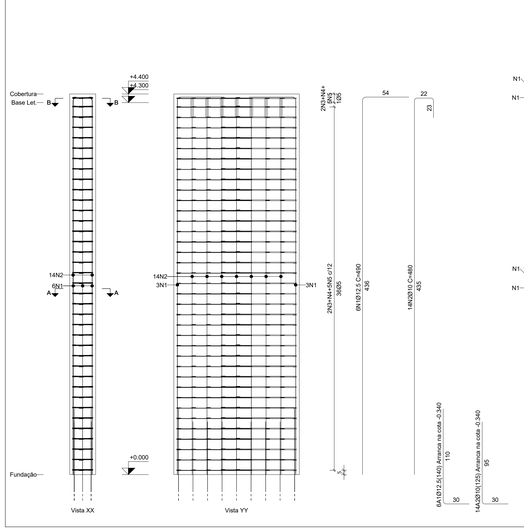


Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
1	Ø10	4	255	1020
2	Ø10	2	255	510
3	Ø5	36	85	3060
4	Ø5	16	26	416
5	Ø10	4	250	1000

Escala 1:25

Planta	Dimensão (cm)	Concreto Tipo: C25, em geral Cobrimento: 3 cm		Armaduras CA-50 e CA-60			Taxa (kg/m3)
		Volume (m3)	Fôrmas (m2)	Longitudinal (kg)	Estribos (kg)	Total +10 % (kg)	
Cobertura	30x20	0.14	2.40	6.2	2.7	9.8	61.81
Topo Let.		0.06	1.00	-	1.4	1.5	23.33
Base Let.		0.06	1.00	9.4	1.4	11.9	180.00
Total		0.26	4.40	15.6	5.5	23.2	79.92

P5



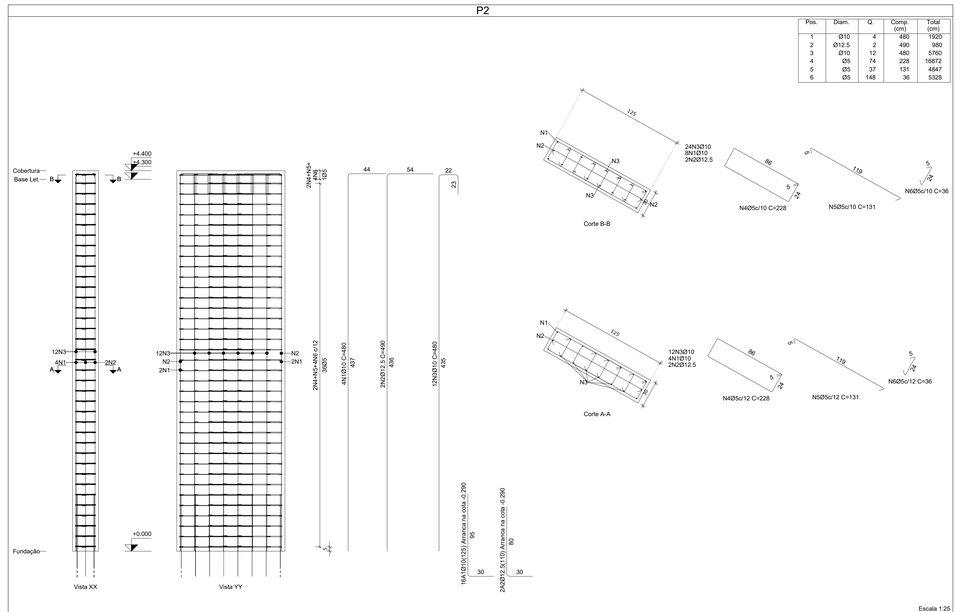
Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
1	Ø12.5	6	490	2940
2	Ø10	14	480	6720
3	Ø5	74	233	17242
4	Ø5	37	151	5587
5	Ø5	185	36	6660

Escala 1:25

Planta	Dimensão (cm)	Concreto Tipo: C25, em geral Cobrimento: 3 cm		Armaduras CA-50 e CA-60			Taxa (kg/m3)
		Volume (m3)	Fôrmas (m2)	Longitudinal (kg)	Estribos (kg)	Total +10 % (kg)	
Base Let.	30x145	1.91	15.40	69.7	46.3	127.6	60.61
Total		1.91	15.40	69.7	46.3	127.6	60.61

DETALHAMENTO PILARES
ESC.: 1:100

P2

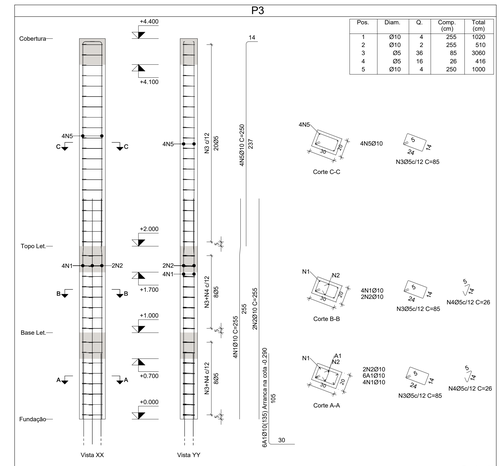


Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
1	Ø10	4	480	1920
2	Ø12.5	2	490	980
3	Ø10	12	480	5760
4	Ø5	74	228	16872
5	Ø5	37	131	4847
6	Ø5	148	36	5328

Escala 1:25

Planta	Dimensão (cm)	Concreto Tipo: C25, em geral Cobrimento: 3 cm		Armaduras CA-50 e CA-60			Taxa (kg/m3)
		Volume (m3)	Fôrmas (m2)	Longitudinal (kg)	Estribos (kg)	Total +10 % (kg)	
Base Let.	30x125	1.65	13.64	56.8	42.5	109.2	60.18
Total		1.65	13.64	56.8	42.5	109.2	60.18

P3



Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
1	Ø10	4	255	1020
2	Ø10	2	255	510
3	Ø5	36	85	3060
4	Ø5	16	26	416
5	Ø10	4	250	1000

Escala 1:25

Planta	Dimensão (cm)	Concreto Tipo: C25, em geral Cobrimento: 3 cm		Armaduras CA-50 e CA-60			Taxa (kg/m3)
		Volume (m3)	Fôrmas (m2)	Longitudinal (kg)	Estribos (kg)	Total +10 % (kg)	
Cobertura	30x20	0.14	2.40	6.2	2.7	9.8	61.81
Topo Let.		0.06	1.00	-	1.4	1.5	23.33
Base Let.		0.06	1.00	9.4	1.4	11.9	180.00
Total		0.26	4.40	15.6	5.5	23.2	79.92

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P1	1	Ø10	4	97 7 14	110	440	2.7	
	2	Ø5	8	85 7 14	85	680		1.1
					Total+10%		3.0	1.2
P2	1	Ø10	4	437 5	480	1920	11.8	
	2	Ø12.5	2	436 5	490	980	9.4	
	3	Ø10	12	435 12	480	5760	35.5	
	4	Ø5	74	5 5 5