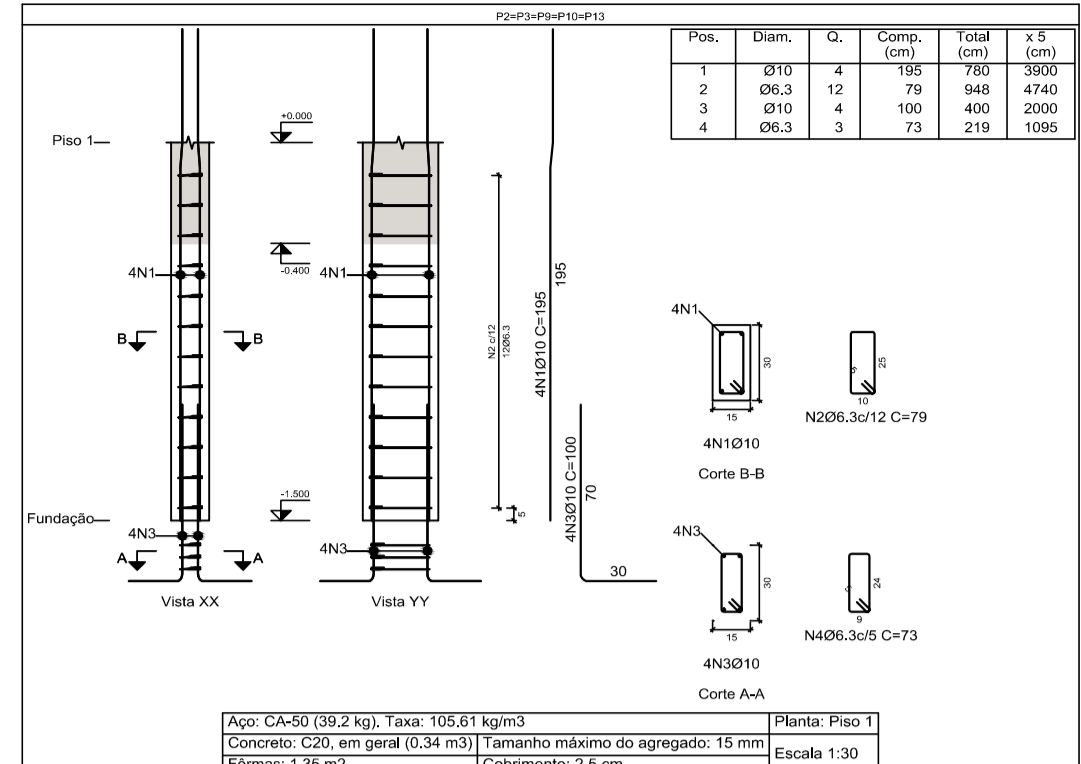
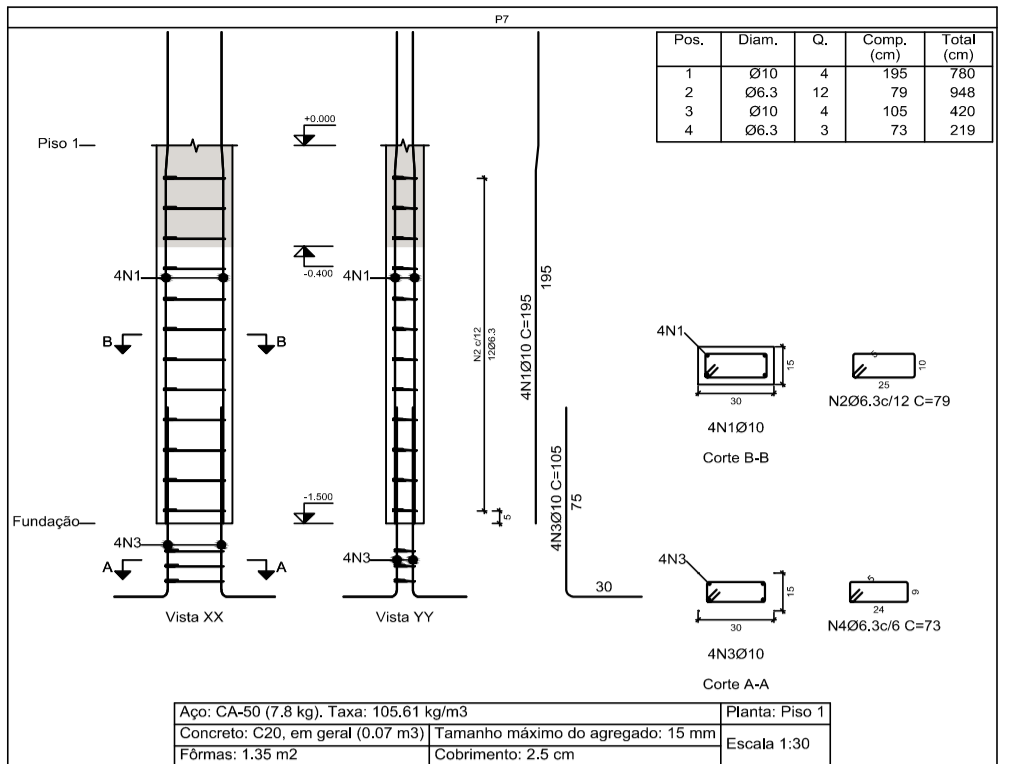
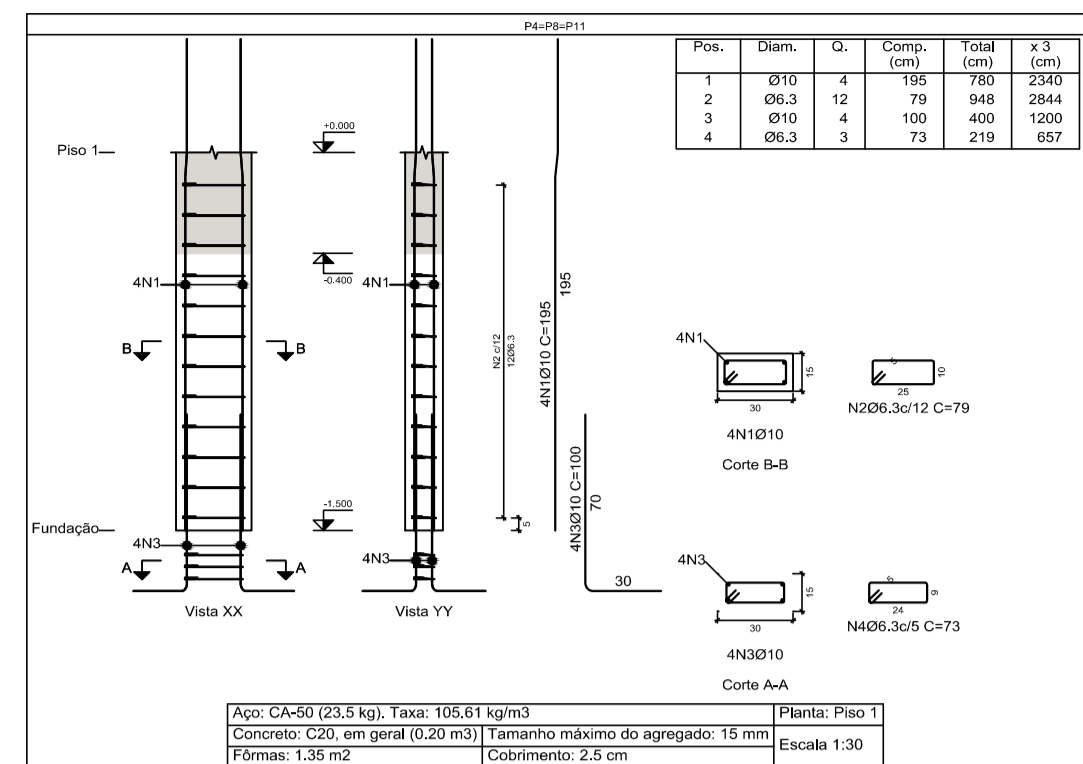
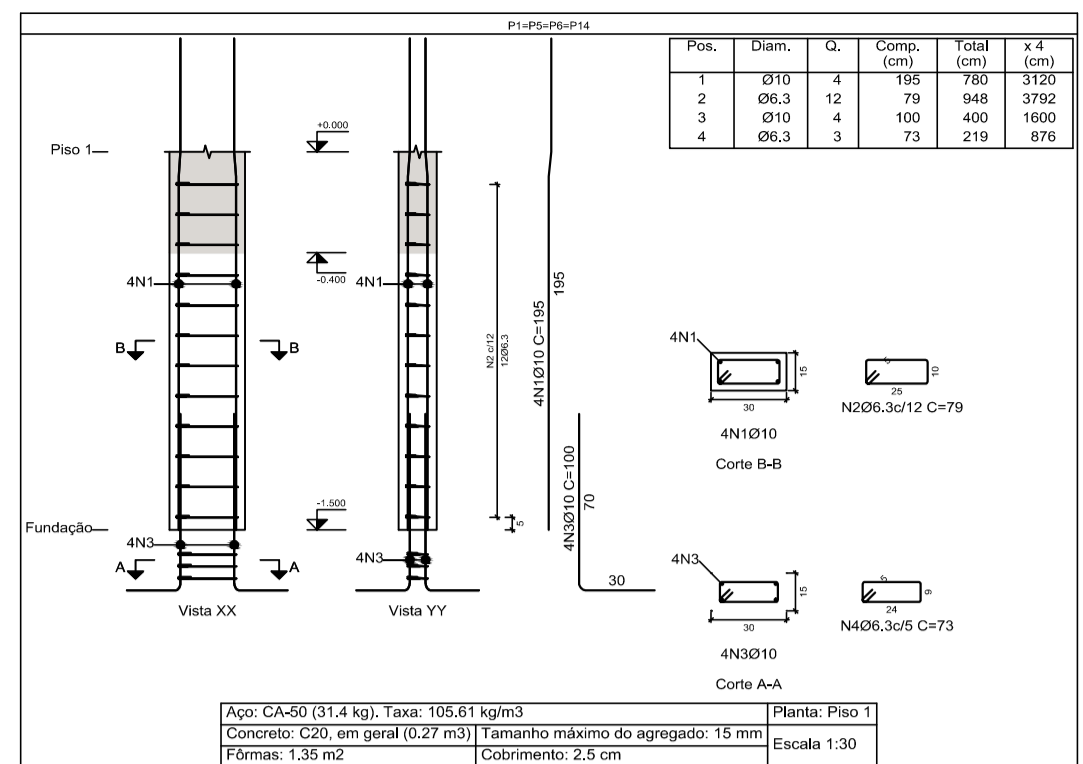
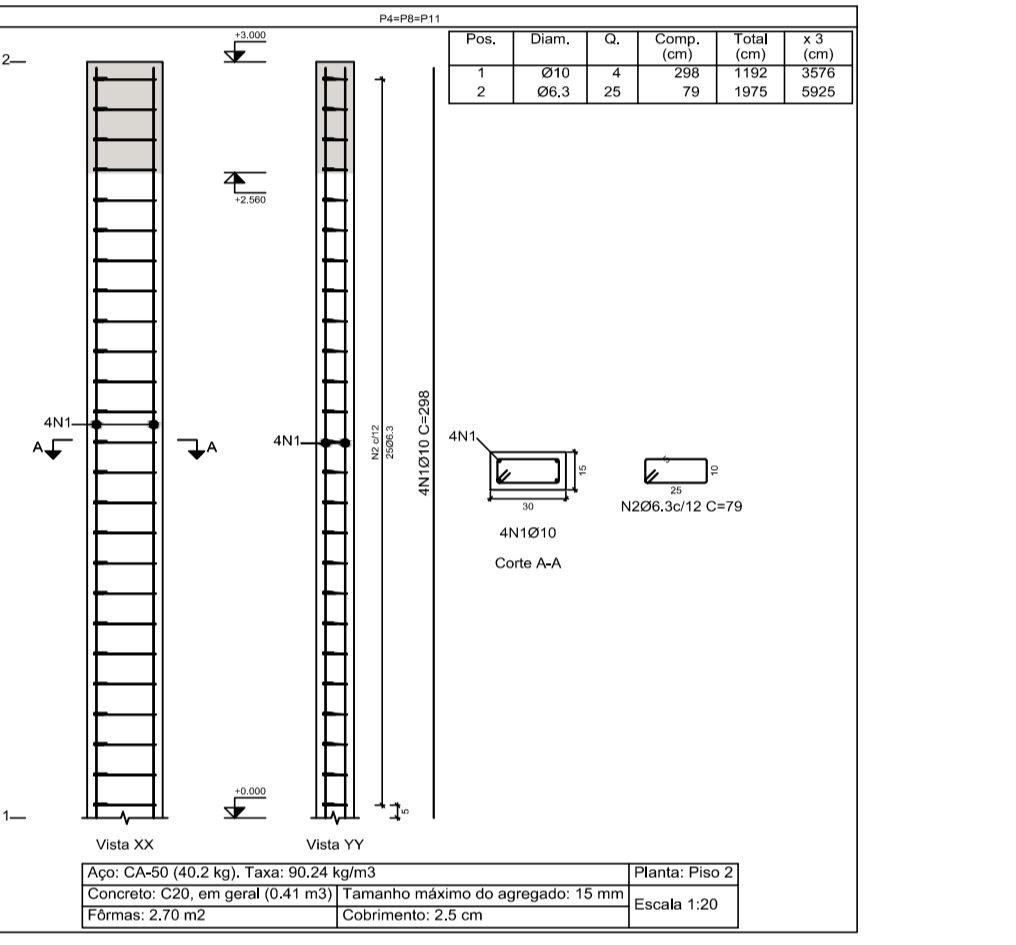
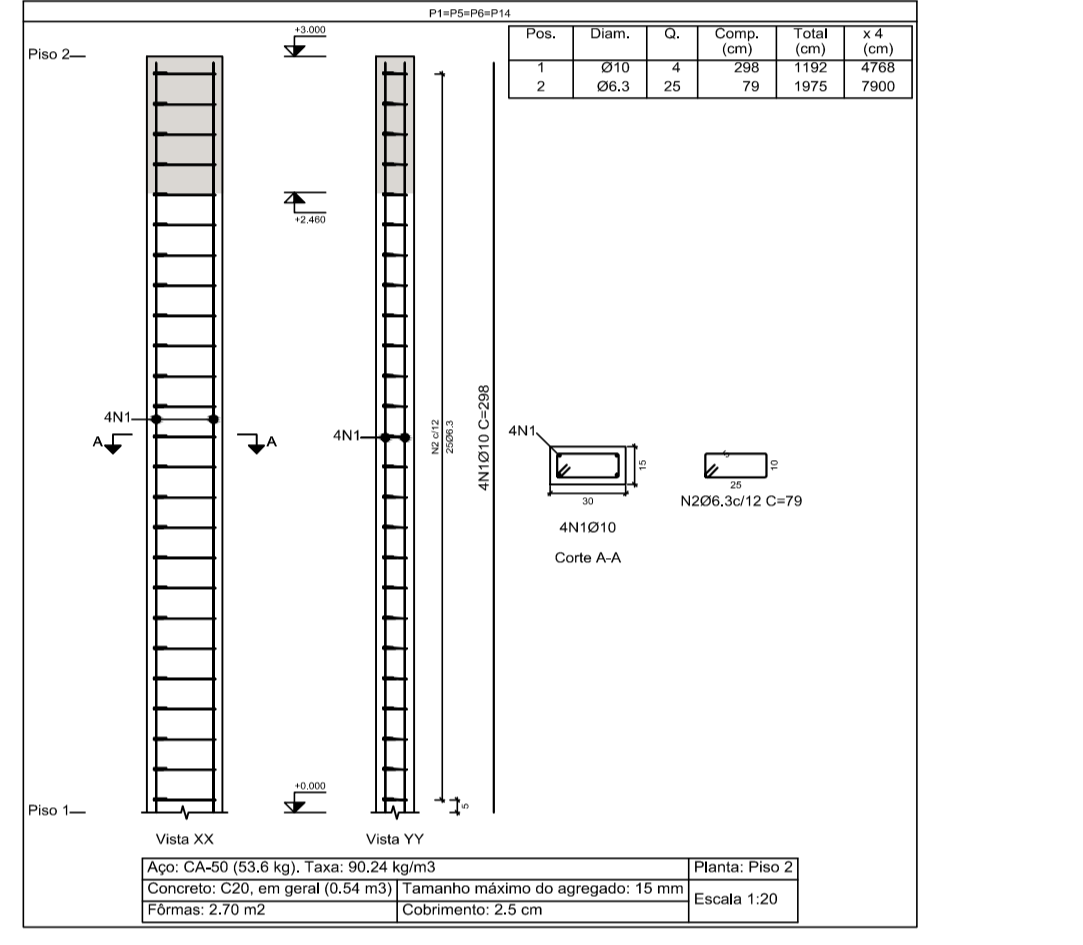
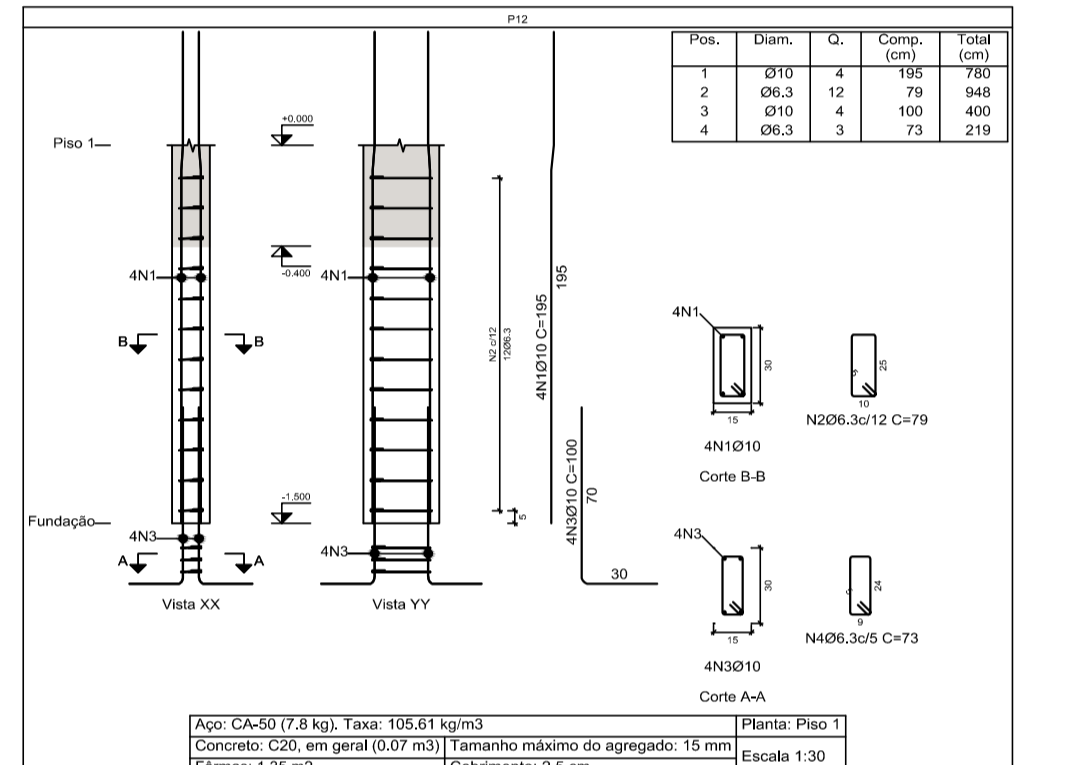


Planta: Piso 1
 Concreto: C20, em geral
 Aço das barras: CA-50
 Aço dos estribos: CA-50



Resumo Aço Pilares	Comp. total (m)	Peso+10% (kg)	Total
CA-50 Ø6.3	163.4	44	
Ø10	165.4	112	156

Planta: Piso 2
 Concreto: C20, em geral
 Aço das barras: CA-50
 Aço dos estribos: CA-50



P1: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	2.36	-0.06	0.04	-0.14	0.08
Cargas permanentes	2.78	-0.25	0.16	-0.59	0.38
Sobrecarga	0.27	-0.01	0.01	-0.02	0.01

P2: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	3.50	0.01	0.01	0.03	0.02
Cargas permanentes	4.04	0.07	0.24	0.16	0.57
Sobrecarga	0.45	0.00	0.00	0.01	-0.00

P3: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	3.63	-0.02	0.01	-0.04	0.02
Cargas permanentes	4.19	-0.08	0.29	-0.19	0.69
Sobrecarga	0.46	-0.00	0.00	-0.01	-0.00

P4: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	2.25	0.04	0.03	0.09	0.07
Cargas permanentes	2.72	0.22	0.16	0.55	0.36
Sobrecarga	0.26	0.01	0.00	0.02	0.01

P5: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	4.06	0.00	-0.00	0.00	-0.01
Cargas permanentes	4.50	-0.19	-0.06	-0.43	-0.13
Sobrecarga	0.53	0.00	-0.00	0.00	-0.00

P6: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	6.16	-0.00	0.01	-0.00	0.02
Cargas permanentes	5.41	0.14	-0.08	0.36	-0.18
Sobrecarga	0.88	0.00	0.00	0.00	0.00

P7: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	5.67	-0.05	-0.03	-0.11	-0.06
Cargas permanentes	5.11	-0.30	-0.23	-0.69	-0.52
Sobrecarga	0.82	-0.01	-0.00	-0.02	-0.01

P8: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	4.19	0.05	-0.00	0.11	-0.01
Cargas permanentes	4.86	0.25	-0.06	0.62	-0.13
Sobrecarga	0.58	0.01	0.00	0.02	-0.00

P9: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	3.32	-0.01	-0.00	-0.03	-0.00
Cargas permanentes	2.77	0.01	0.05	0.04	0.11
Sobrecarga	0.42	-0.00	-0.00	-0.01	-0.00

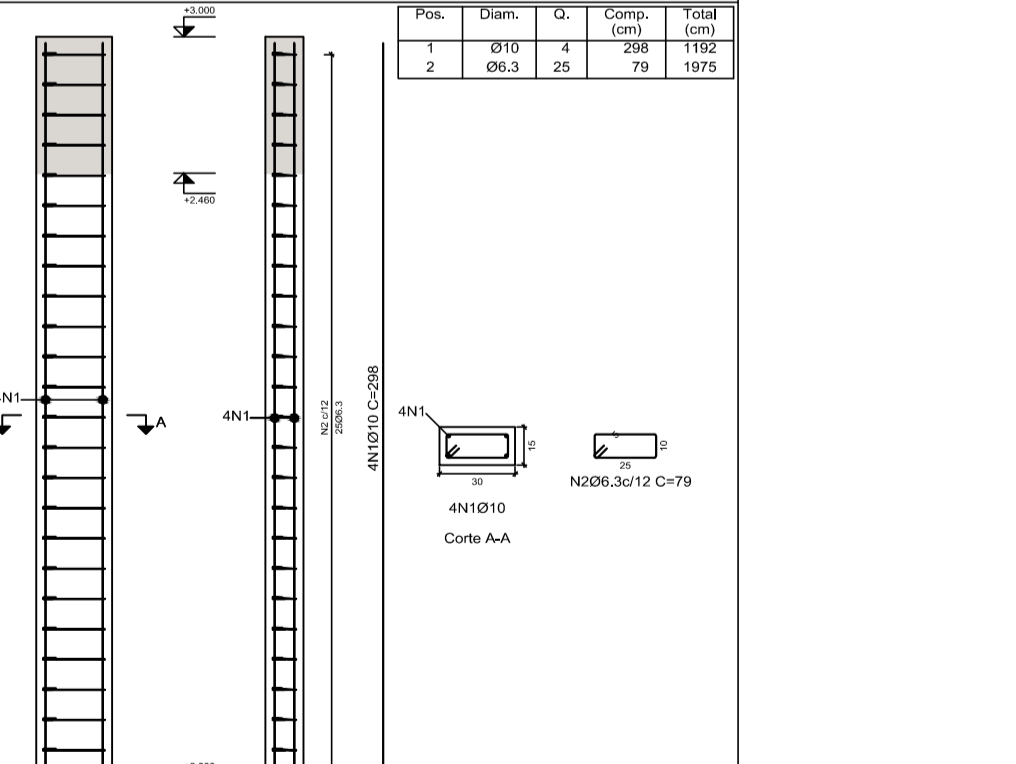
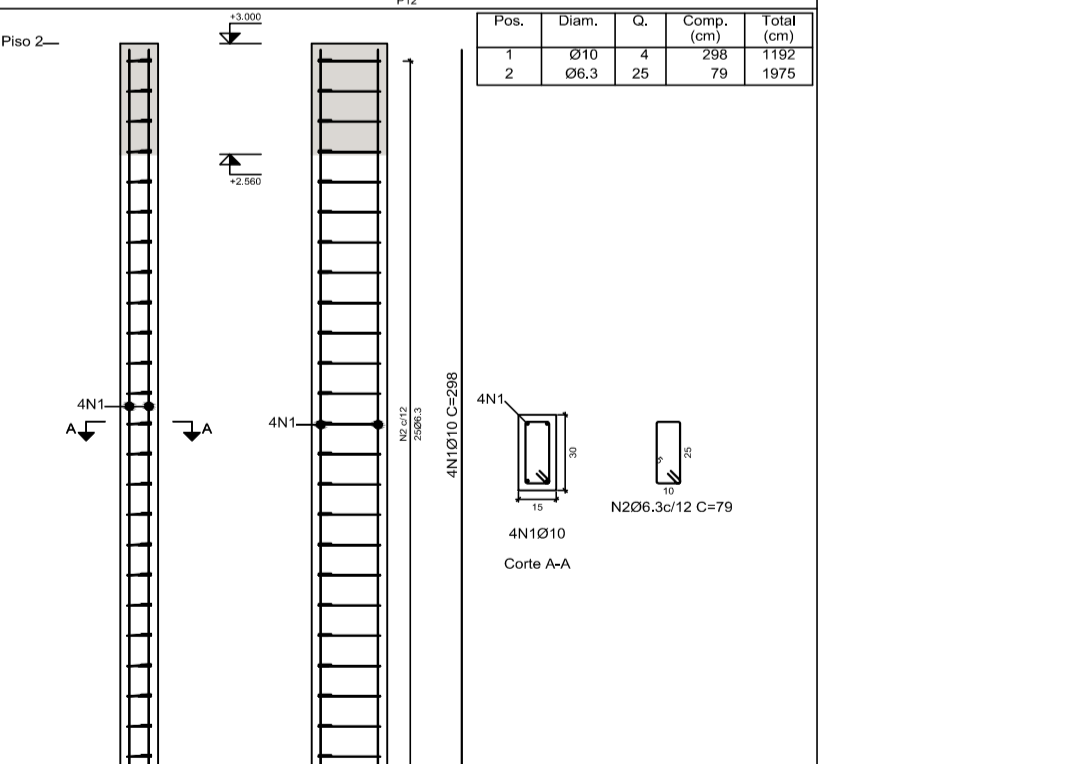
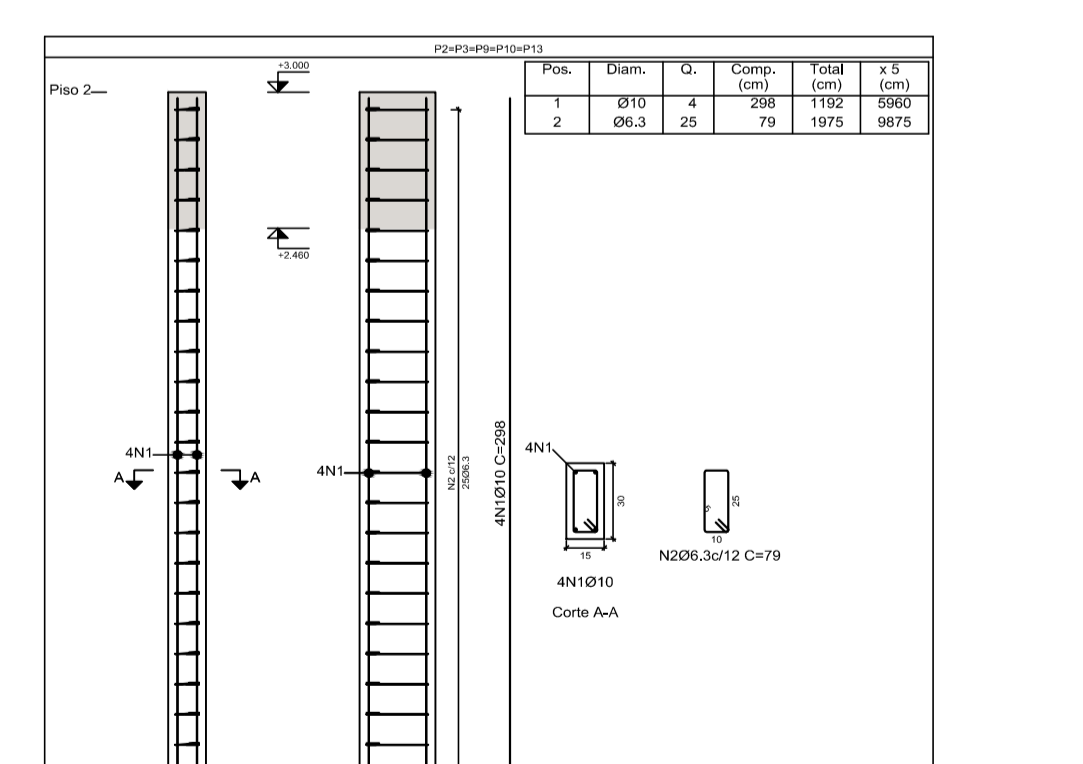
P10: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	5.13	-0.01	-0.01	-0.02	-0.04
Cargas permanentes	4.52	-0.12	0.05	-0.27	0.13
Sobrecarga	0.70	0.00	-0.00	0.00	-0.01

P11: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	3.16	0.01	-0.06	0.02	-0.15
Cargas permanentes	4.08	0.05	-0.22	0.13	-0.51
Sobrecarga	0.40	0.00	-0.01	0.00	-0.02

P12: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	1.41	0.01	0.01	0.03	0.02
Cargas permanentes	1.61	0.03	-0.10	0.08	-0.23
Sobrecarga	0.13	0.00	0.00	0.01	0.00

P13: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	2.34	-0.03	0.03	-0.07	0.06
Cargas permanentes	2.58	-0.17	-0.12	-0.39	-0.29
Sobrecarga	0.27	-0.00	0.01	-0.01	0.01

P14: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	2.34	0.05	-0.01	0.12	-0.03
Cargas permanentes	2.68	0.25	-0.11	0.62	-0.25
Sobrecarga	0.27	0.01	-0.00	0.02	-0.00



P13: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	2.34	-0.03	0.03	-0.07	0.06
Cargas permanentes	2.58	-0.17	-0.12	-0.39	-0.29
Sobrecarga	0.27	-0.00	0.01	-0.01	0.01

P14: Hipótese	Axial	Mx	My	Qx	Qy
Peso próprio	2.34	0.05	-0.01	0.12	-0.03
Cargas permanentes	2.68	0.25	-0.11	0.62	-0.25
Sobrecarga	0.27	0.01	-0.00	0.02	-0.00

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
P2-P3-P8-P10-P13	1	Ø10	4		298	1192	7,3
	2	Ø6,3	25		79	1975	4,8
Total+10%							13,3
(kg)							86,5
Ø6,3							26,5
Ø10							40,0
Total							66,5

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
P1-P5-P6-P11	1	Ø10	4		298	1192	7,3
	2	Ø6,3	25		79	1975	4,8
Total+10%							13,3
(kg)							51,2
Ø6,3							5,3
Ø10							8,0
Total							13,3

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)
P7	1	Ø10	4		298	1192	7,3
	2	Ø6,3	25		79	1975	4,8
Total+10%							13,3
(kg)							29,9
Ø6,3							15,9
Ø10							8,0
Total							13,3

APÊNDICE J - Projeto Estrutural em Concreto Armado

Faculdades Unificadas de Teófilo Otoni DOCTUM

VERIFICAÇÃO DA ECONOMIA DA CONSTRUÇÃO EM SISTEMA DE ALVENARIA ESTRUTURAL COMPARADA COM SISTEMA CONSTRUTIVO EM CONCRETO ARMADO

Integrantes: Samuel Pereira Santos Thargus Rebouças Borges Franca: 2/4

Contém: Detalhamento dos Pilares, Mapa de Cargas Página: 81