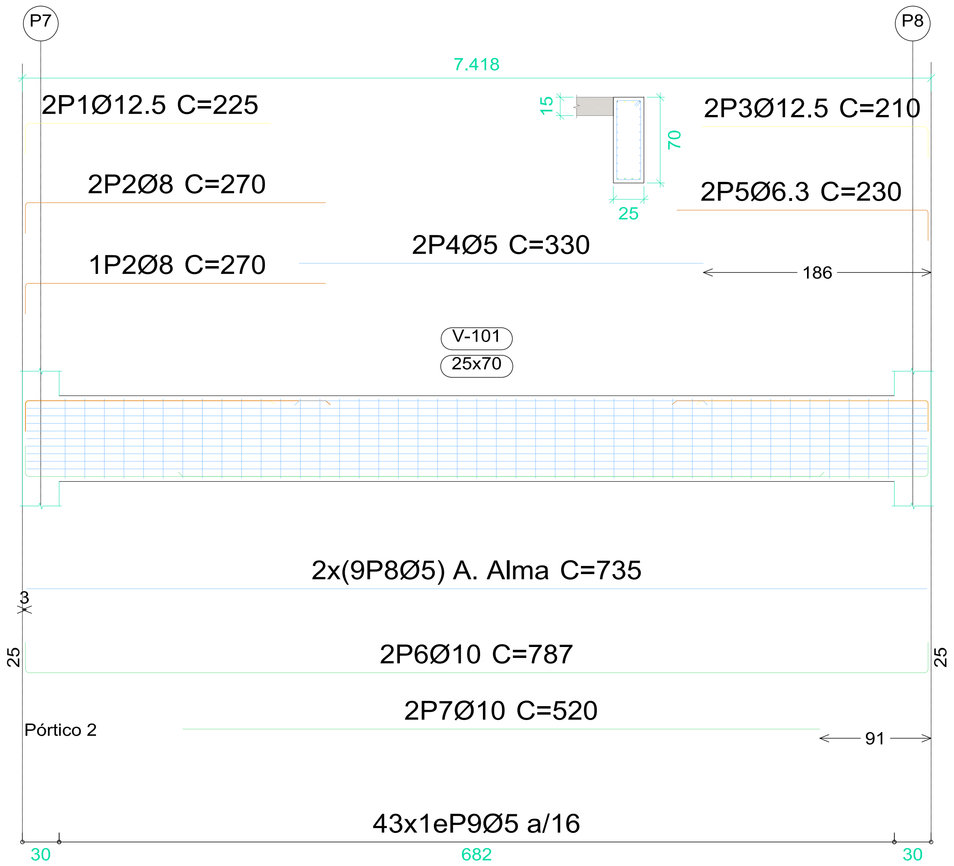
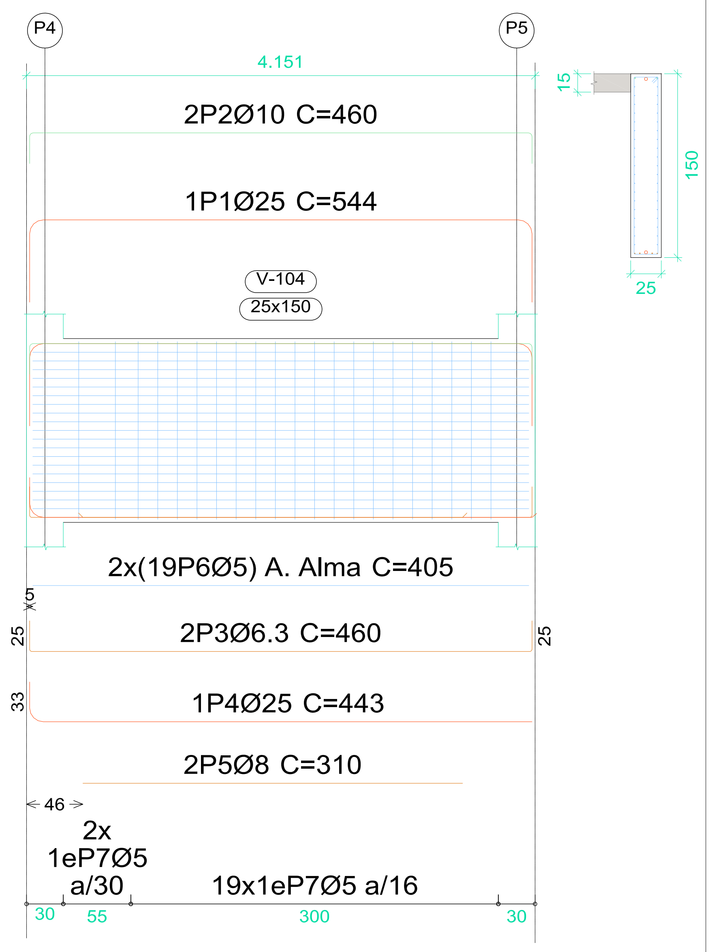
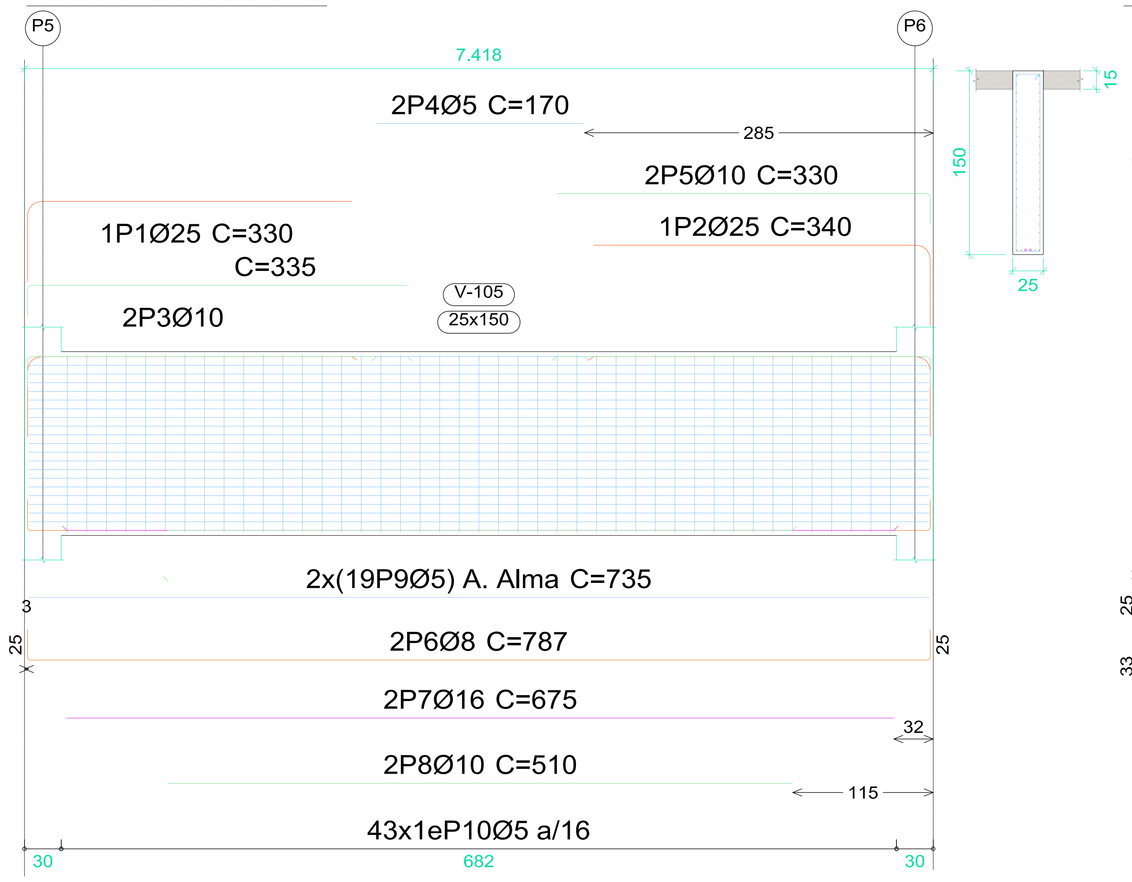
ARM PÓRTICO 1



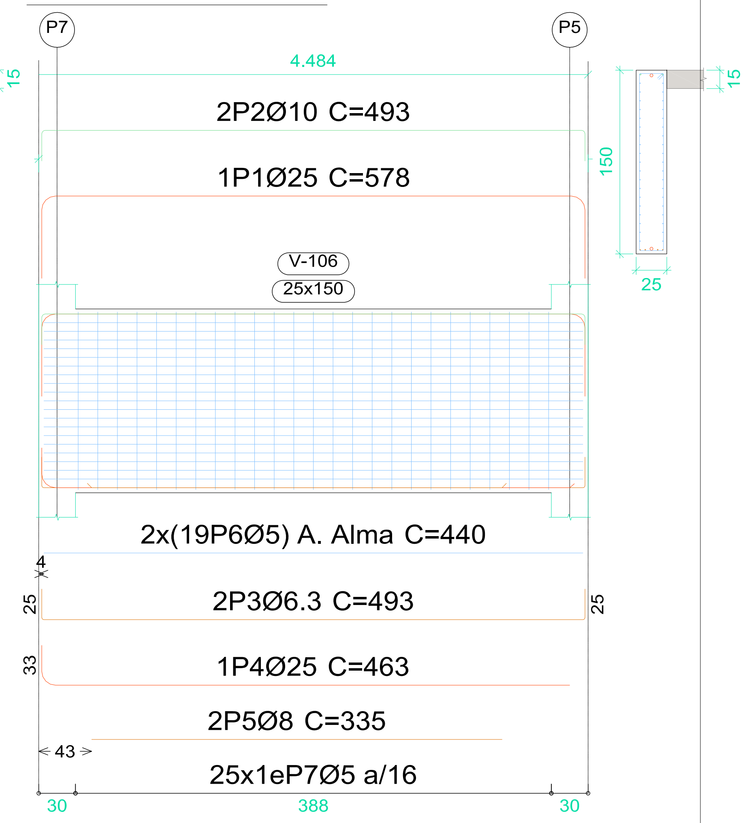
ARM PÓRTICO 4



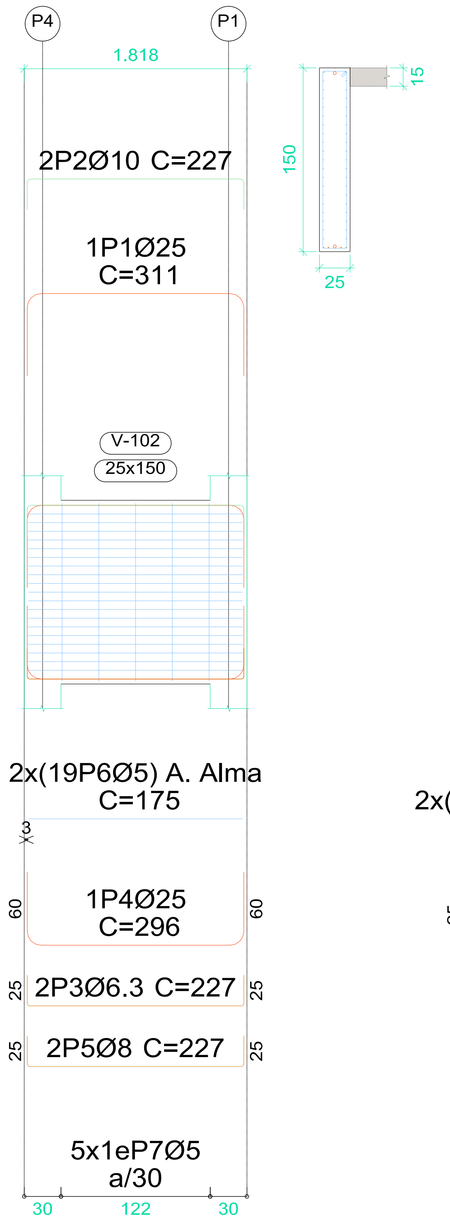
ARM PÓRTICO 5



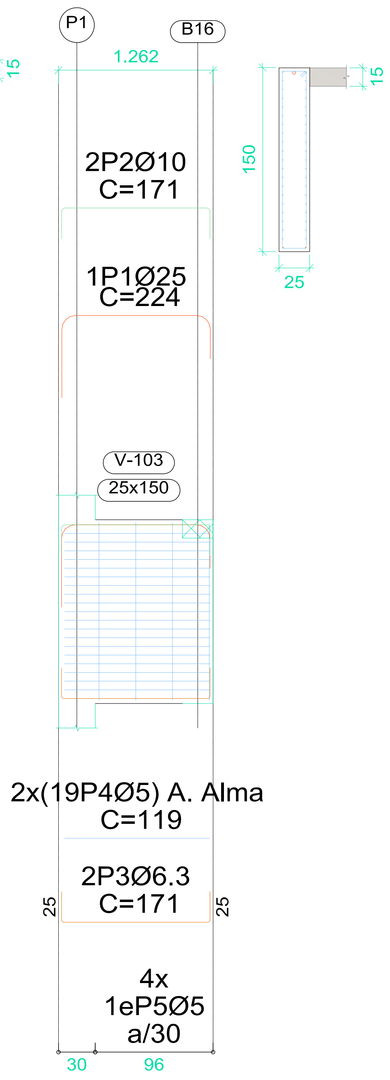
ARM PÓRTICO 6



ARM PÓRTICO 2



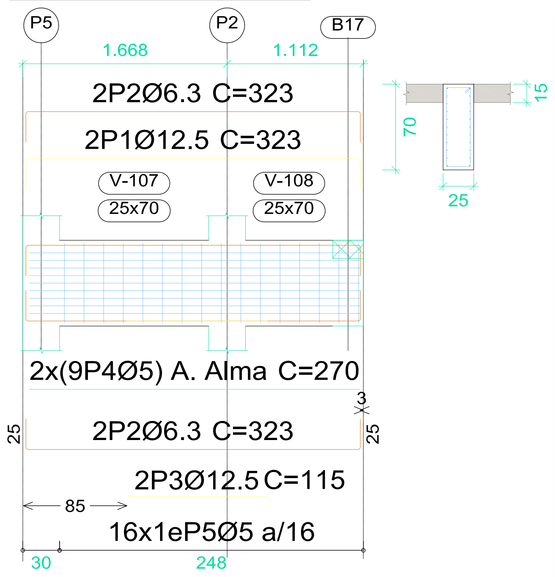
ARM PÓRTICO 3



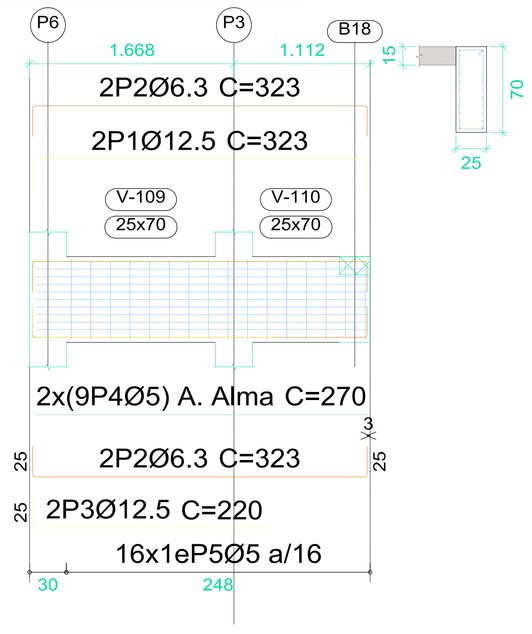
Elemento	Pos.	Diâm.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Pórtico 1	1	Ø12.5	2	25 200	225	450	4.3	
	2	Ø8	3	25 245	270	810	3.2	
	3	Ø12.5	2	185 25	210	420	4.0	
	4	Ø5	2	330	330	660		1.0
	5	Ø6.3	2	205 25	230	460	1.1	
	6	Ø10	2	25 737 25	787	1574	9.7	
	7	Ø10	2	520	520	1040	6.4	
	8	Ø5	18	735	735	13230		20.8
	9	Ø5	43	65 5 20	178	7654		12.0
					Total+10%:		31.6	37.2
Pórtico 2	1	Ø25	1	67 177 67	311	311	12.0	
	2	Ø10	2	25 177 25	227	454	2.8	
	3	Ø6.3	2	25 177 25	227	454	1.1	
	4	Ø25	1	60 177 60	296	296	11.4	
	5	Ø8	2	25 177 25	227	454	1.8	
	6	Ø5	38	175	175	6650		10.4
	7	Ø5	5	145 5 20	338	1690		2.7
					Total+10%:		32.0	14.4
Pórtico 3	1	Ø25	1	67 121 35	224	224	8.6	
	2	Ø10	2	25 121 25	171	342	2.1	
	3	Ø6.3	2	25 121 25	171	342	0.8	
	4	Ø5	38	119	119	4522		7.1
	5	Ø5	4	145 5 20	338	1352		2.1
					Total+10%:		12.7	10.1
Pórtico 4	1	Ø25	1	67 410 67	544	544	21.0	
	2	Ø10	2	25 410 25	460	920	5.7	
	3	Ø6.3	2	25 410 25	460	920	2.3	
	4	Ø25	1	33 410	443	443	17.1	
	5	Ø8	2	310	310	620	2.4	
	6	Ø5	38	405	405	15390		24.2
	7	Ø5	21	145 5 20	338	7098		11.1
					Total+10%:		53.4	38.8
					Ø5:		0.0	100.5
					Ø6.3:		5.8	0.0
					Ø8:		8.3	0.0
					Ø10:		29.4	0.0
					Ø12.5:		9.1	0.0
					Ø25:		77.1	0.0
					Total:		129.7	100.5

Recobrimento: 2.5 cm

ARM PÓRTICO 7



ARM PÓRTICO 8



Elemento	Pos.	Diâm.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
Pórtico 5	1	Ø25	1	65 265	330	330	12.7	
	2	Ø25	1	275 65	340	340	13.1	
	3	Ø10	2	25 310	335	670	4.1	
	4	Ø5	2	170	170	340		0.5
	5	Ø10	2	305 25	330	660	4.1	
	6	Ø8	2	25 737 25	787	1574	6.2	
	7	Ø16	2	675	675	1350	21.3	
	8	Ø10	2	510	510	1020	6.3	
	9	Ø5	38	735	735	27930		43.9
	10	Ø5	43	145 5 20	338	14534		22.8
					Total+10%:		74.6	73.9
Pórtico 6	1	Ø25	1	67 443 67	578	578	22.3	
	2	Ø10	2	25 443 25	493	986	6.1	
	3	Ø6.3	2	25 443 25	493	986	2.4	
	4	Ø25	1	33 431	463	463	17.8	
	5	Ø8	2	335	335	670	2.6	
	6	Ø5	38	440	440	16720		26.3
	7	Ø5	25	145 5 20	338	8450		13.3
					Total+10%:		56.3	43.6
Pórtico 7	1	Ø12.5	2	25 273 25	323	646	6.2	
	2	Ø6.3	4	25 273 25	323	1292	3.2	
	3	Ø12.5	2	115	115	230	2.2	
	4	Ø5	18	270	270	4860		7.6
	5	Ø5	16	65 5 20	178	2848		4.5
					Total+10%:		12.8	13.3
Pórtico 8	1	Ø12.5	2	25 273 25	323	646	6.2	
	2	Ø6.3	4	25 273 25	323	1292	3.2	
	3	Ø12.5	2	25 195	220	440	4.2	
	4	Ø5	18	270	270	4860		7.6
	5	Ø5	16	65 5 20	178	2848		4.5
					Total+10%:		15.0	13.3
					Ø5:		0.0	144.1
					Ø6.3:		9.9	0.0
					Ø8:		9.7	0.0
					Ø10:		22.6	0.0
					Ø12.5:		20.6	0.0
					Ø16:		23.4	0.0
					Ø25:		72.5	0.0
					Total:		158.7	144.1

Recobrimento: 2.5 cm

REVISÕES	DESCRIÇÃO	DATA	RESP. PUBRICA
0	EMISSÃO INICIAL	14/01/2019	ASSP

UIE Unidade de Infraestrutura

Centro Paula Souza

GOVERNO DO ESTADO DE SÃO PAULO

OBRA: CAMPUS CEETEPS EM SÃO PAULO

UNIDADE: 254 -Etec Profa Dra Dorotil Quiomi Kanashiro Toyohara

LOCAL / MUNICIPIO: RUA AMBRÓSIA DO MÉXICO, 180 - PIRITUBA

ÁREA TÉCNICA: ESTRUTURA

ESCALA: 1/25

FOLHA Nº: EST-005/011

TÍTULO:
PROJETO BÁSICO
REFEITÓRIO - ESTRUTURA
PLANTA DE ARMAÇÃO DOS PÓRTICOS 1 a 8
REFORMA

DESENHO	PROJETO	COORDENAÇÃO
UIE	UIE	UIE

OBSERVAÇÃO	DATA	REVISÃO
CONFERIR MEDIDAS NO LOCAL	01/04/2019	R0