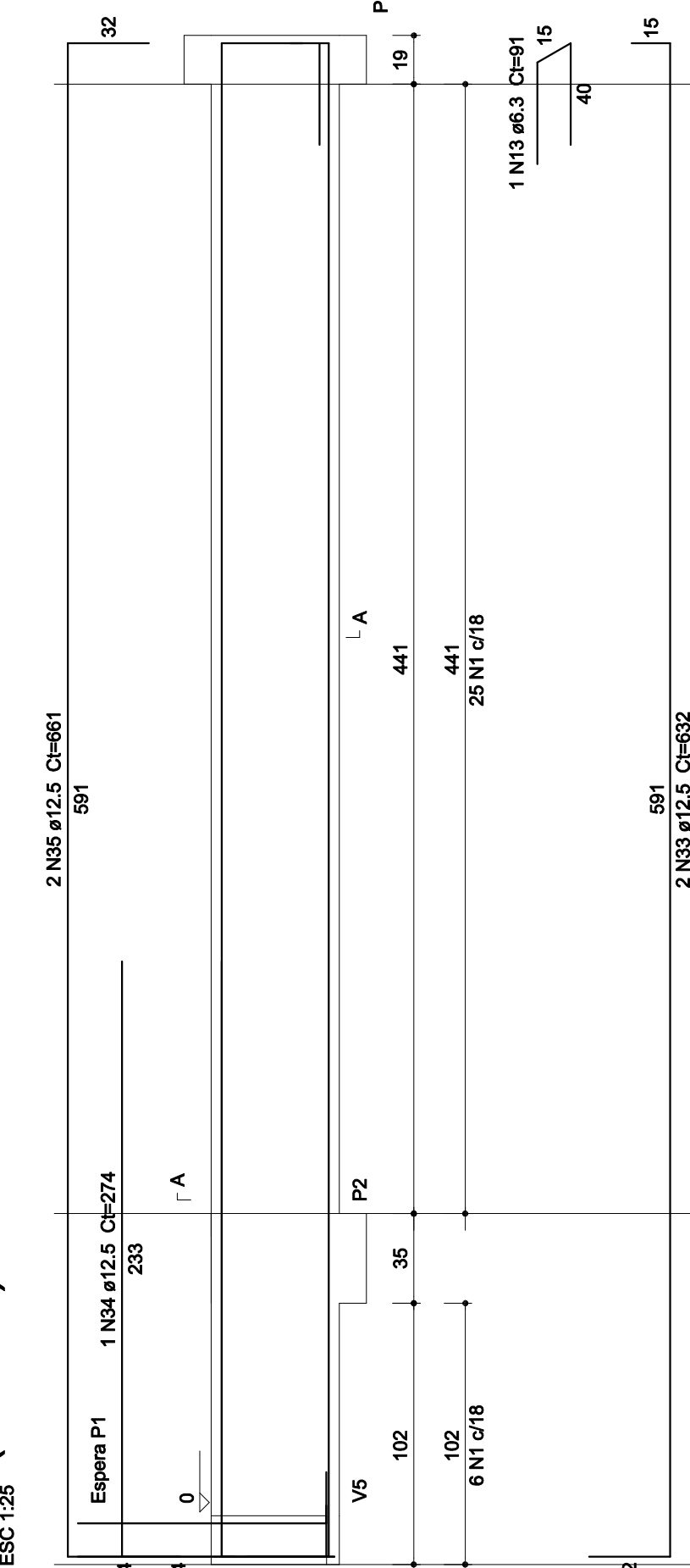
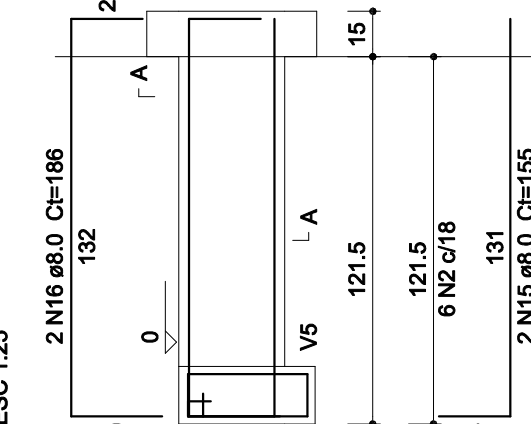


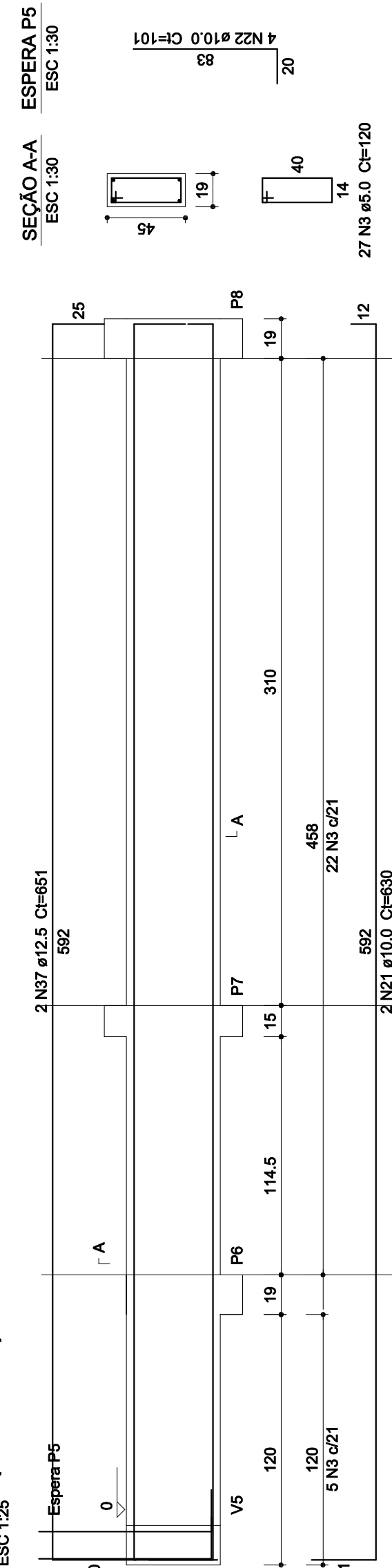
VF1 (22 x 50)



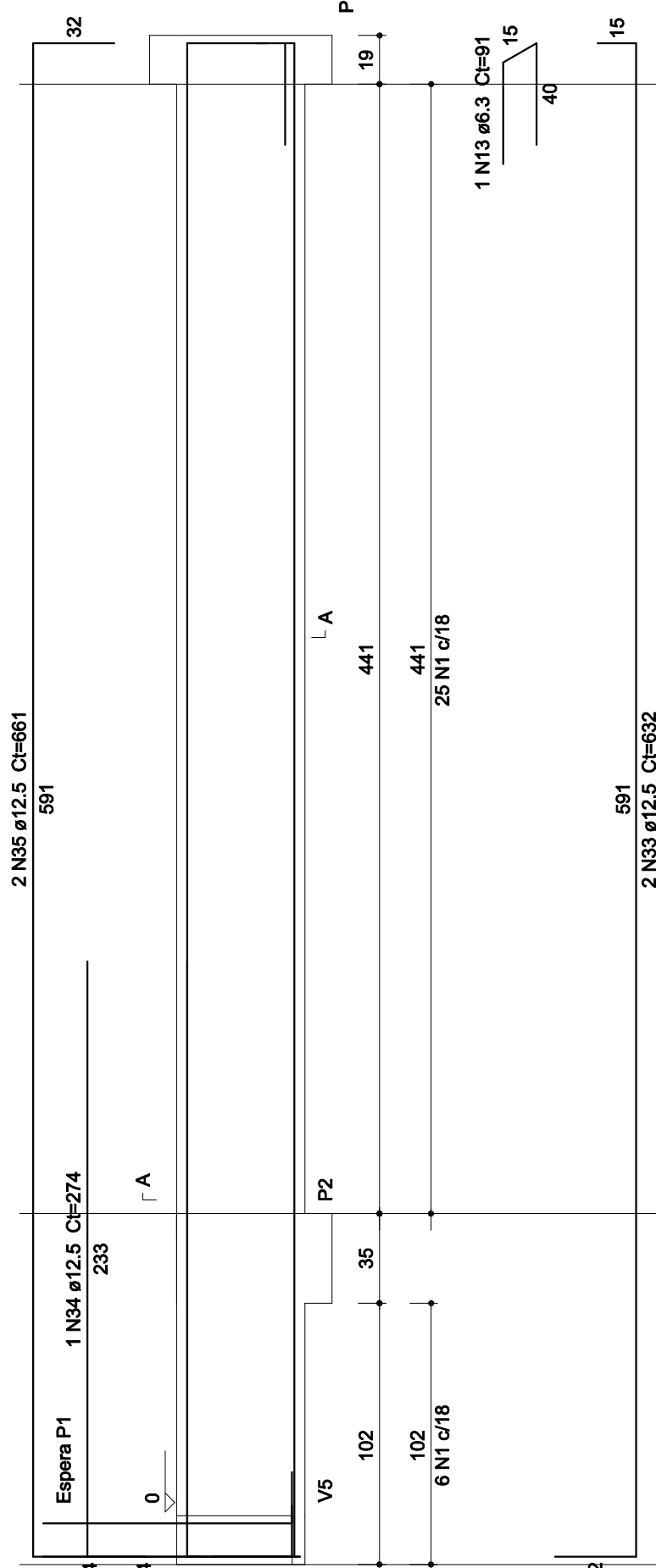
VF2 (15 x 35)



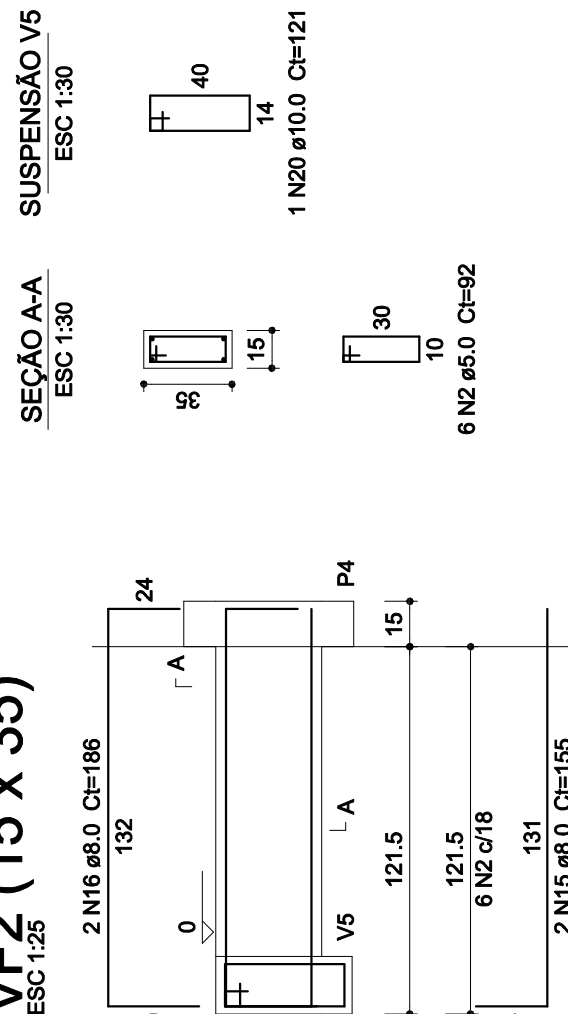
VF3 (19 x 45)



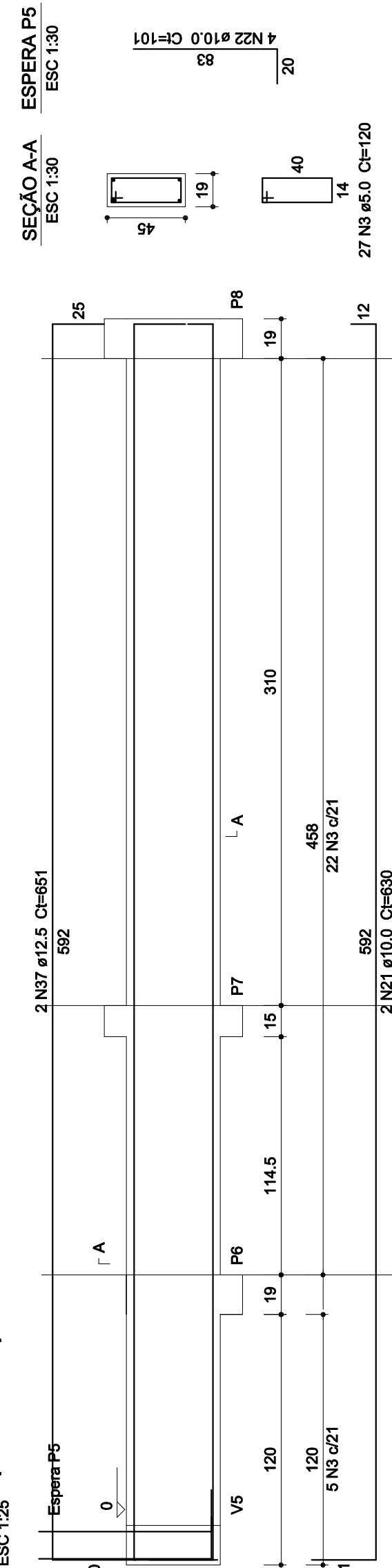
VF4 (19 x 45)



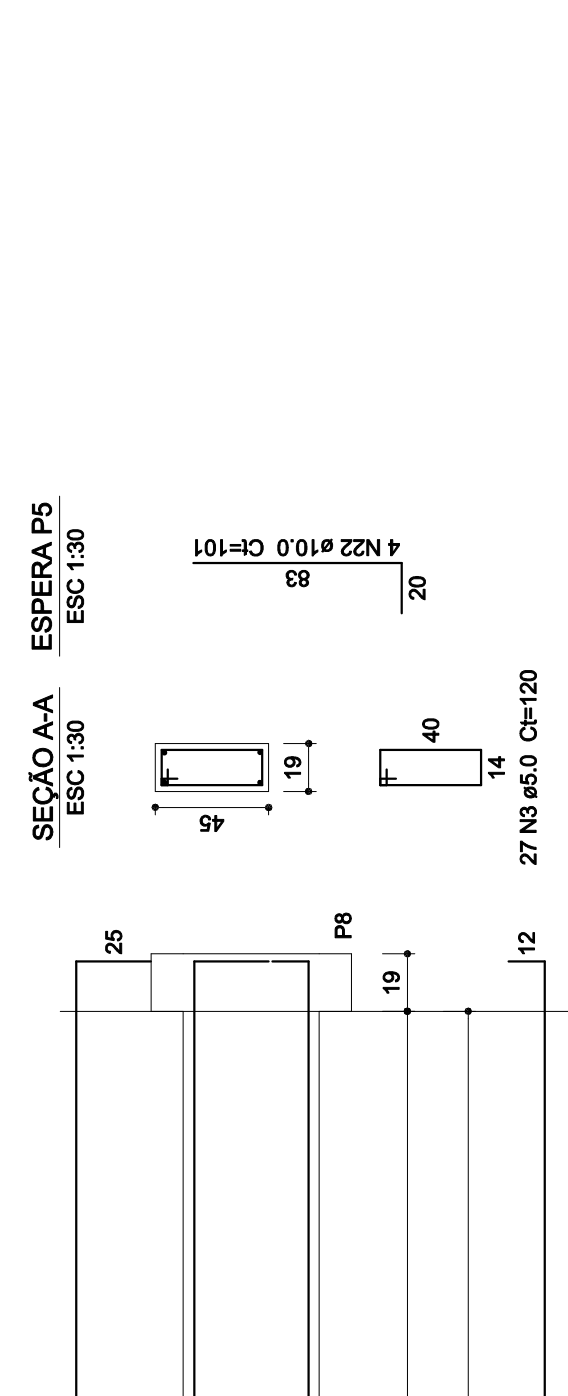
VF5 (19 x 45)



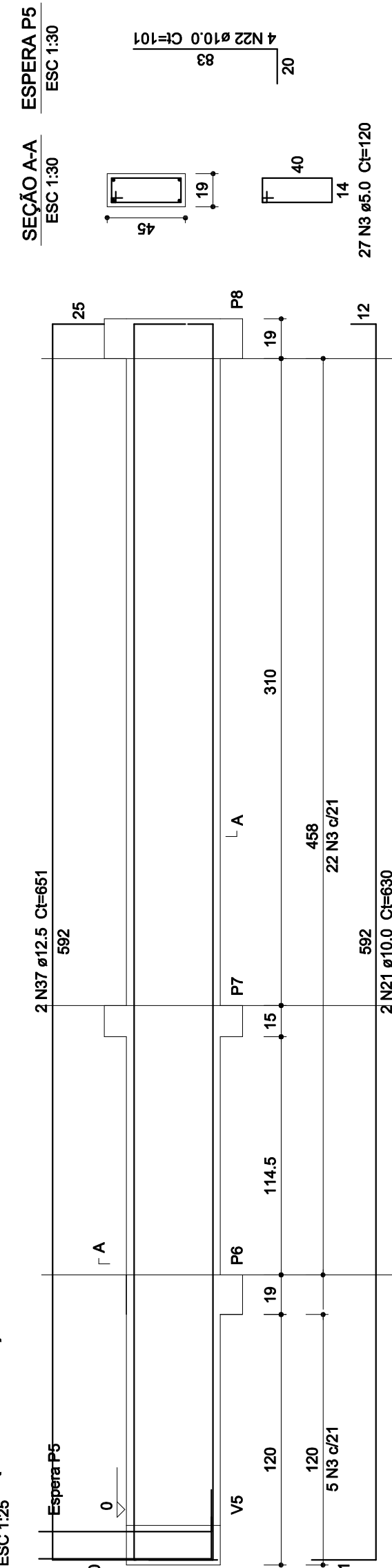
VF6 (15 x 35)



VF7 (15 x 35)



VF8 (19 x 45)



Relação do aço

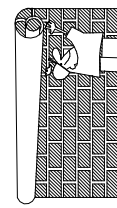
B2	7x810	P2
P3	P4	P6
P7	2xP8	P10
VF1	VF2	VF3
VF4	VF5	VF6
VF7	VF8	

AÇO	N	DIAM	Q	UNIT	C.TOTAL
CA60	1	5.0	31	cm	1092
	2	5.0	63	cm	5796
	3	5.0	92	cm	7560
	4	5.0	116	cm	6960
	5	5.0	12	cm	1152
	6	5.0	6	cm	528
	7	5.0	3	cm	306
	8	5.0	3	cm	84
	9	5.0	3	cm	318
	10	5.0	3	cm	72
	11	5.0	2	cm	192
	12	5.0	14	cm	2828
	13	6.3	1	cm	91
	14	6.3	24	cm	4992
	15	8.0	2	cm	135
	16	8.0	2	cm	163
	17	8.0	2	cm	1550
	18	8.0	2	cm	1638
	19	8.0	2	cm	379
	20	10.0	1	cm	121
	21	10.0	2	cm	1260
	22	10.0	8	cm	101
	23	10.0	2	cm	620
	24	10.0	1	cm	270
	25	10.0	2	cm	686
	26	10.0	2	cm	785
	27	10.0	2	cm	841
	28	10.0	2	cm	357
	29	10.0	8	cm	VAR
	30	10.0	12	cm	VAR
	31	10.0	4	cm	3086
	32	10.0	4	cm	VAR
	33	12.5	2	cm	1084
	34	12.5	2	cm	274
	35	12.5	2	cm	661
	36	12.5	8	cm	1322
	37	12.5	2	cm	651
	38	12.5	12	cm	VAR

Resumo do aço

AÇO	DIAM	C.TOTAL	PESO + 10 %
CA50	6.3	50.9	13.7
	8.0	45.5	19.7
	10.0	137.5	93.2
	12.5	62.7	66.4
CA60	5.0	300.8	51
PESO TOTAL			
CA50			193
CA60			51

Vol. de concreto total (C-25) = 3.85 m³
Vol. de concreto total (C-20) = 1.30 m³
Área de forma total = 59.67 m²



OBRAS PREDIAIS

PREFEITURA MUNICIPAL DE PORTO ALEGRE
SECRETARIA MUNICIPAL DE OBRAS E INFRAESTRUTURA
DIREÇÃO DE PRÉDIOS PÚBLICOS
AMPLIAÇÃO DO CONSELHO TUTELAR 03
RUA SÃO FELIPE, 140 - BOM JESUS, PORTO ALEGRE - RS

VIGAS DE FUNDAÇÃO E BLOCOS

SECRETARIO MUNICIPAL DE OBRAS E INFRAESTRUTURA
ENZO CARDOSO DE MOURA
COORDENADOR DE PROJETOS DE PRÉDIOS PÚBLICOS
ARCP DANIELA TAGLIERI SPERB

PROJETO ENO CIVIL ALEXANDRE E ESCOBAR - CREIA - 146415

DESENHO	ESCALA	INDICADA	DATA	MAPOTECA	G F A
ALEXANDRE			NOV/2021		

FRANCHA
E03/04

