

Vigas			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
V1	14x35	0	300
V2	14x35	0	300
V3	14x35	0	300
V4	14x50	0	300
V5	14x50	0	300
V6	14x50	0	300
V7	14x35	0	300
V8	14x35	0	300
V9	14x50	0	300
V10	14x35	0	300
V11	14x35	0	300

Blocos de enchimento						
Detalhe	Tipo	Nome	Dimensões(cm)			Quantidade
			hb	bx	by	
1	EPS Unidirecional	B12/40/40	12	40	40	543

Dados					Lajes			Sobrecarga (kgf/m²)		
Nome	Tipo	Altura (cm)	Elevação (cm)	Nível (cm)	Peso próprio (kgf/m²)	Adicional	Acidental	Localizada		
L1	Treliçada 1D	16	0	300	157	200	150	-		
L2	Treliçada 1D	16	0	300	157	200	150	-		
L3	Treliçada 1D	16	0	300	157	200	150	-		
L4	Treliçada 1D	16	0	300	157	200	150	-		
L5	Treliçada 1D	16	0	300	157	200	150	-		
L6	Treliçada 1D	16	0	300	157	200	150	-		
L7	Treliçada 1D	16	0	300	157	200	150	-		
L8	Treliçada 1D	16	0	300	157	200	150	-		

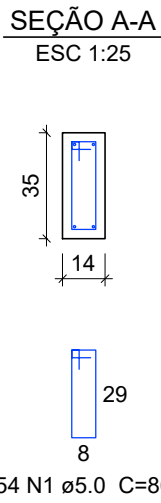
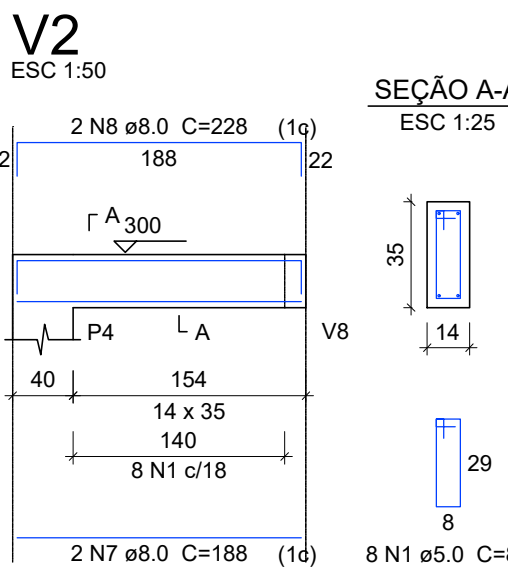
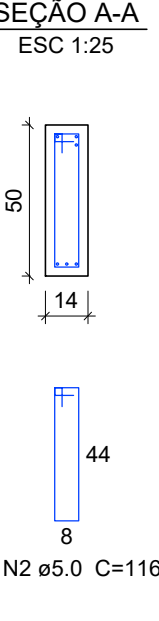
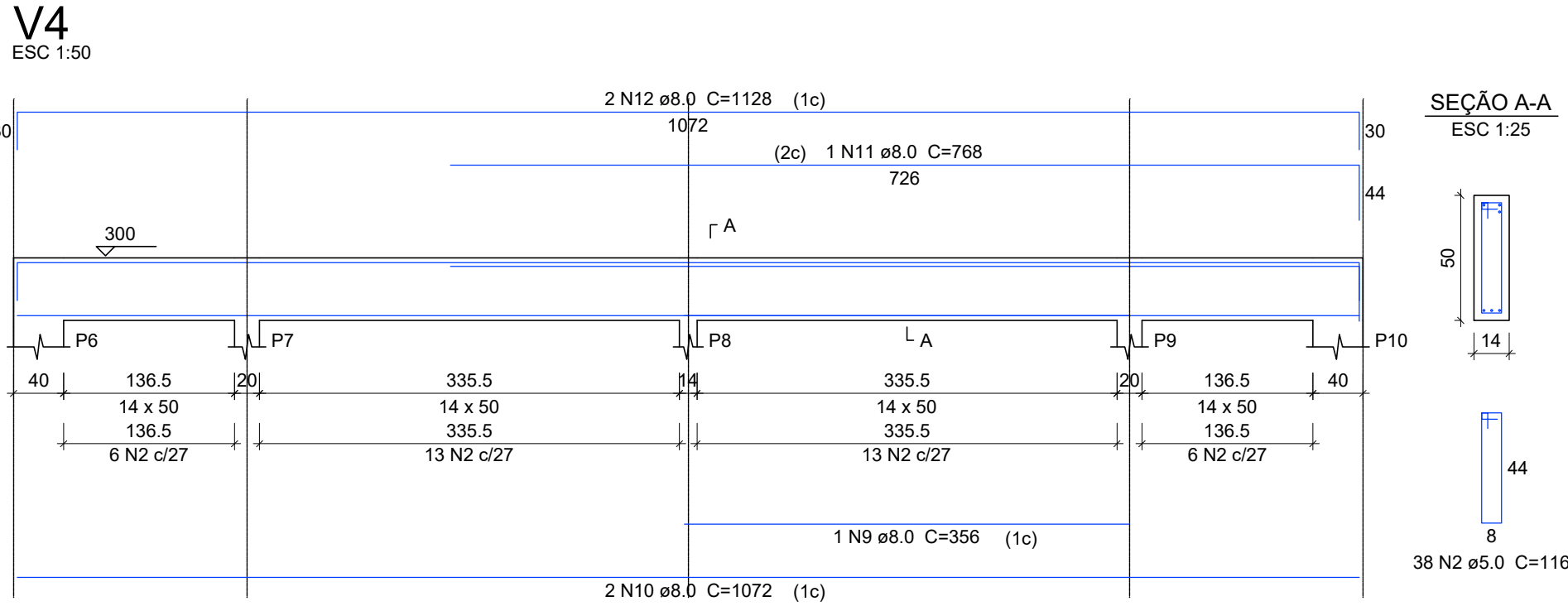
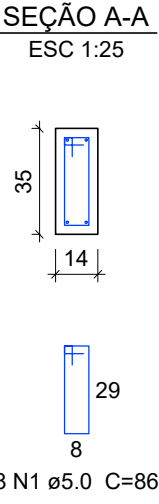
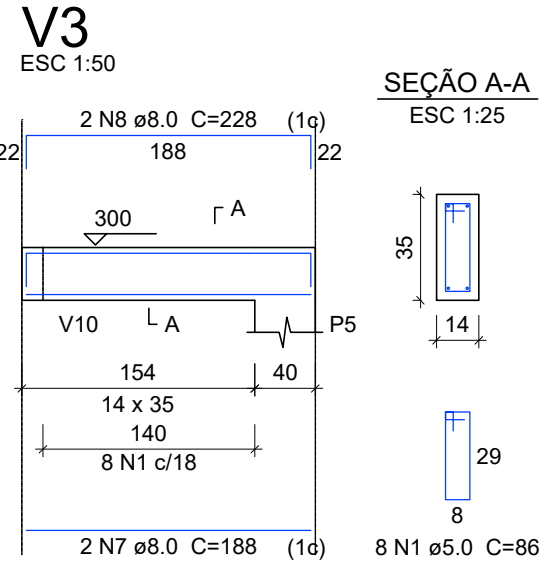
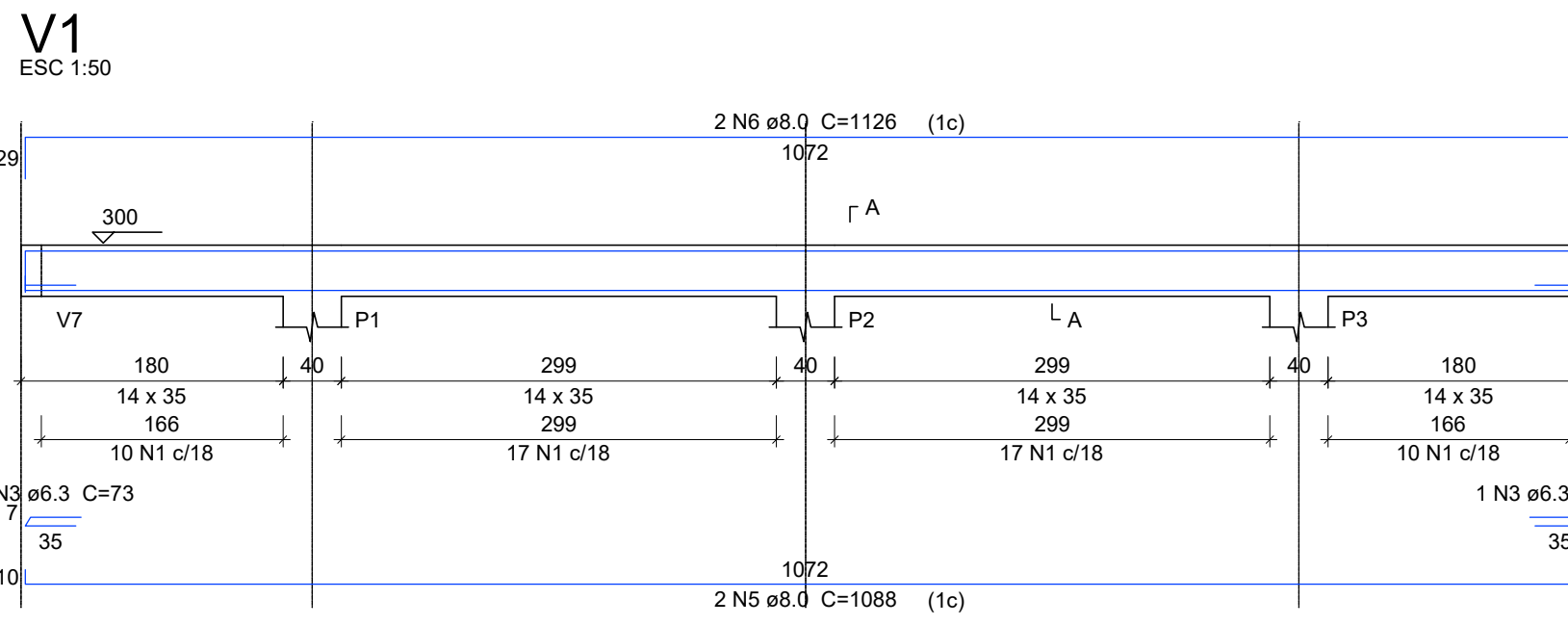
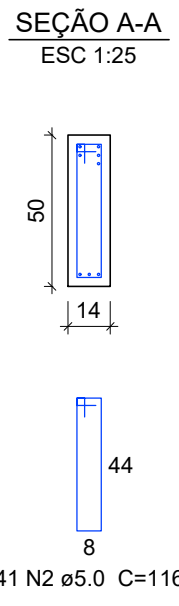
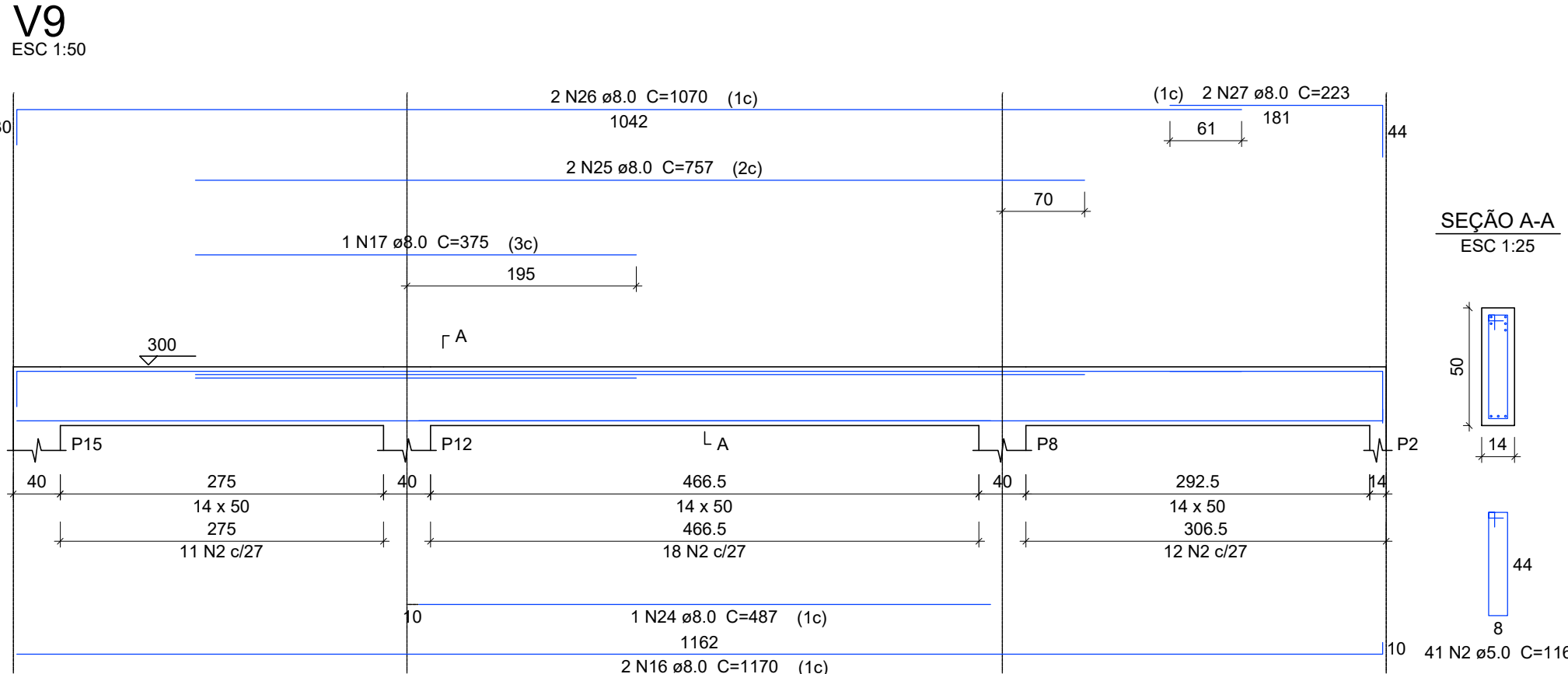
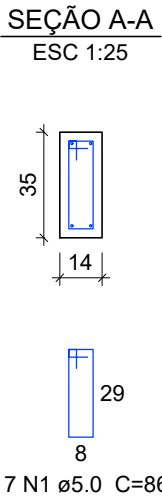
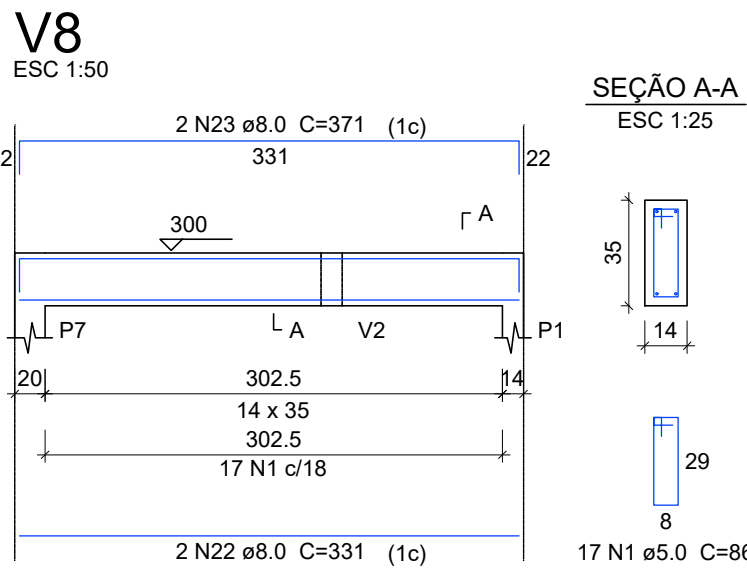
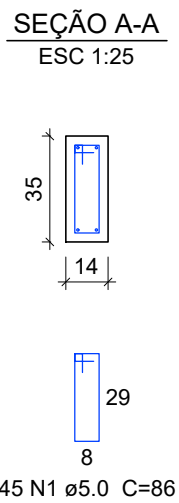
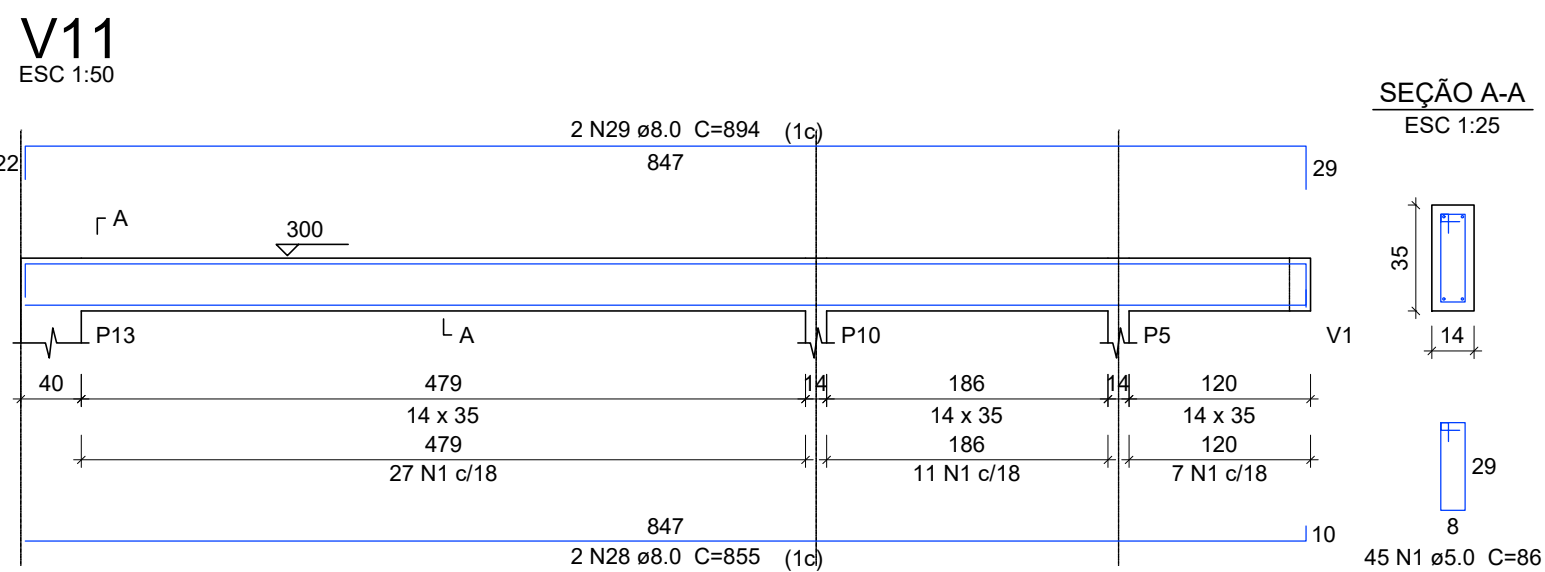
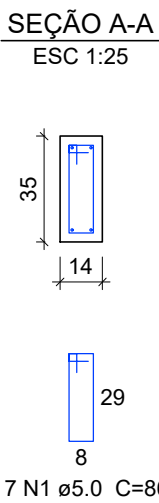
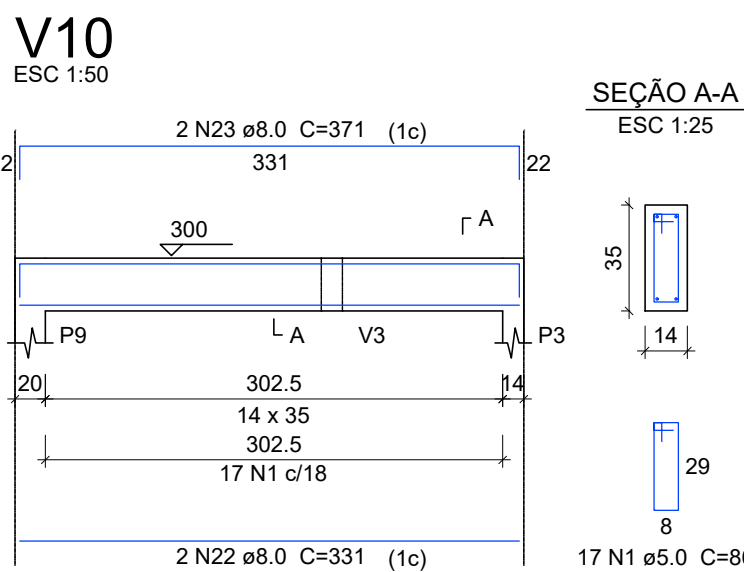
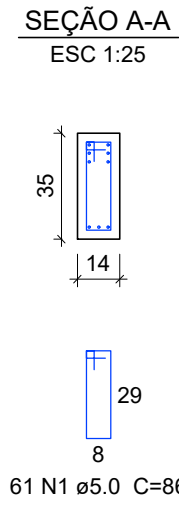
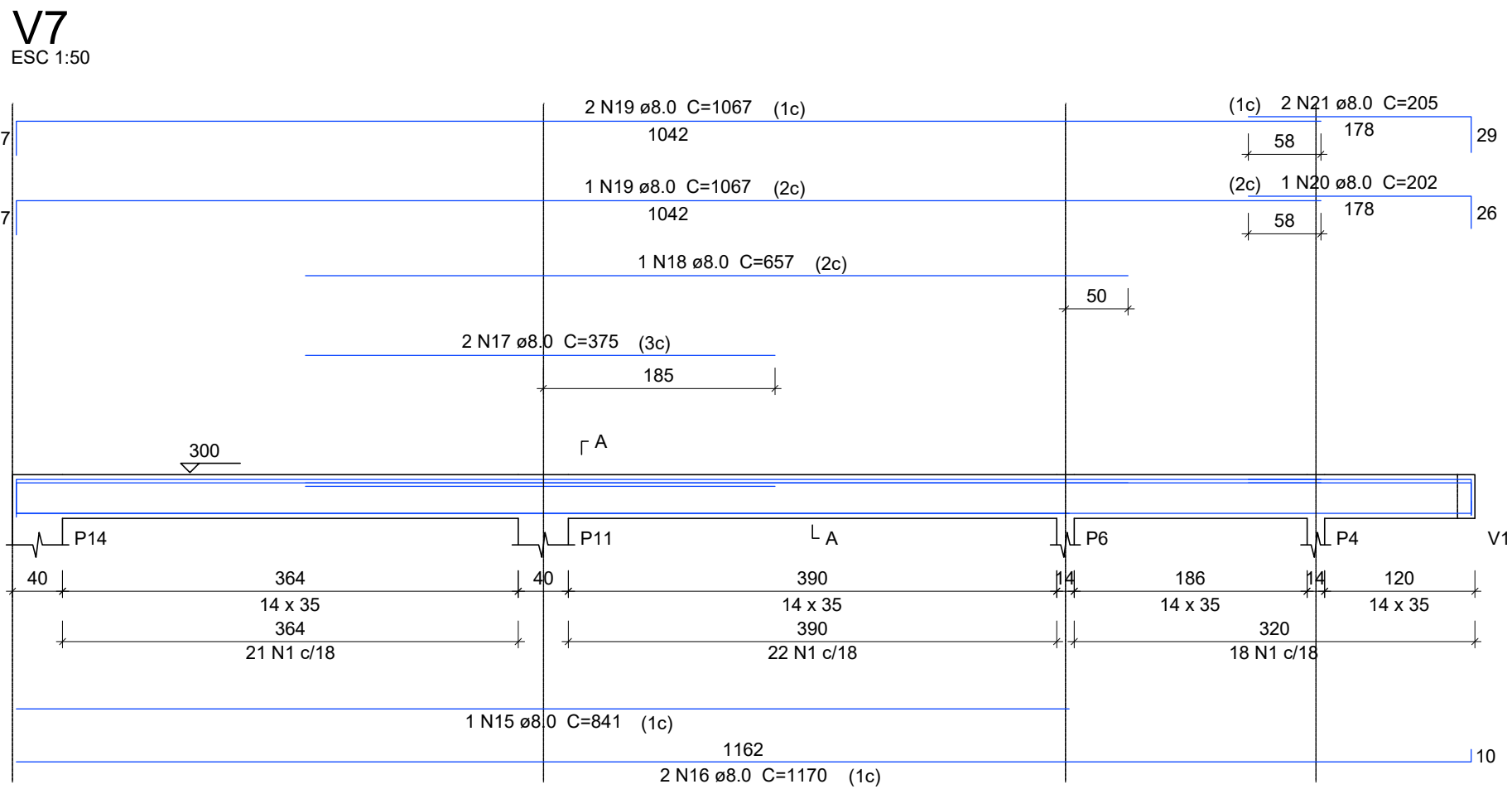
Características dos materiais	
fck	Ecs
(kgf/cm²)	(kgf/cm²)
250	238000

Pilares			
Nome	Seção (cm)	Elevação (cm)	Nível (cm)
P1	14 x 40	0	300
P2	14 x 40	0	300
P3	14 x 40	0	300
P4	14 x 40	0	300
P5	14 x 40	0	300
P6	14 x 40	0	300
P7	20 x 20	0	300
P8	14 x 40	0	300
P9	20 x 20	0	300
P10	14 x 40	0	300
P11	14 x 40	0	300
P12	14 x 40	0	300
P13	14 x 40	0	300
P14	14 x 40	0	300
P15	14 x 40	0	300

Legenda dos Pilares	
	Pilar que morre
	Pilar que passa
	Pilar que nasce
	Pilar com mudança de seção

Forma do pavimento COBERTURA

escala 1:50



Relação do aço

ACO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	210	86	18060
	2	5.0	119	116	13804
CA50	3	6.3	6	73	436
	4	6.3	3	107	321
	5	8.0	2	1088	2176
	6	8.0	2	1126	2252
	7	8.0	4	188	752
	8	8.0	4	228	912
	9	8.0	1	356	356
	10	8.0	2	1072	2144
	11	8.0	1	768	768
	12	8.0	2	1128	2256
	13	8.0	4	596	2384
	14	8.0	2	548	1096
	15	8.0	1	841	841
	16	8.0	4	1170	4680
	17	8.0	3	375	1125
	18	8.0	1	657	657
	19	8.0	3	1067	3201
	20	8.0	1	202	202
	21	8.0	2	205	410
	22	8.0	4	331	1324
	23	8.0	4	371	1484
	24	8.0	1	487	487
	25	8.0	2	757	1514
	26	8.0	2	1070	2140
	27	8.0	2	223	446
	28	8.0	2	855	1710
	29	8.0	2	894	1788
	30	10.0	2	552	1104
	31	10.0	2	559	1118

Resumo do aço

ACO	DIAM	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	371.1	7.6
	8.0	22.3	161.1
	10.0	22.3	15.1
CA60	5.0	318.7	54
PESO TOTAL			
CA50	178.2		
CA60	54		

Vol. de concreto total (C-25) = 4.38 m³
Área de forma total = 73 m²



PROJETO ESTRUTURAL

PLANTA DE LOCAÇÃO, PLANTA DE FORMA, DETALHES DE VIGAS, PILARES E LAJES

TÍTULO DO PROJETO

AMPLIAÇÃO DE 02 SALAS E 02 BANHEIROS NO CENTRO MUNICIPAL DE EDUCAÇÃO INFANTIL - SÍTIO DO PICA PAU AMARELO

PROPRIETÁRIO: **PREFEITURA MUNICIPAL DE FLÓRIDA/PR** CPF/CNPJ: **75.772.400/0001-14**

ENDEREÇO: **RUA JOSÉ CESNIK, ESQUINA COM RUA AGUSTINHO MOREIRA**

BAIRRO: **CENTRO** MUNICÍPIO: **FLÓRIDA/PR**

ZONAAMENTO: **ZI** QUADRA: **A-25-2** LOTE: **A-25-2** COMPLEMENTO:

PROPRIETÁRIO: **PREFEITURA MUNICIPAL DE FLÓRIDA** CNPJ: 75.772.400/0001-14

RESPONSÁVEL TÉCNICO PELA EXECUÇÃO:

RESPONSÁVEL TÉCNICO PELO PROJETO:

GUSTAVO HENRIQUE BERALDI MARALDI
ENGENHEIRO CIVIL - CREA-PR 179158/D