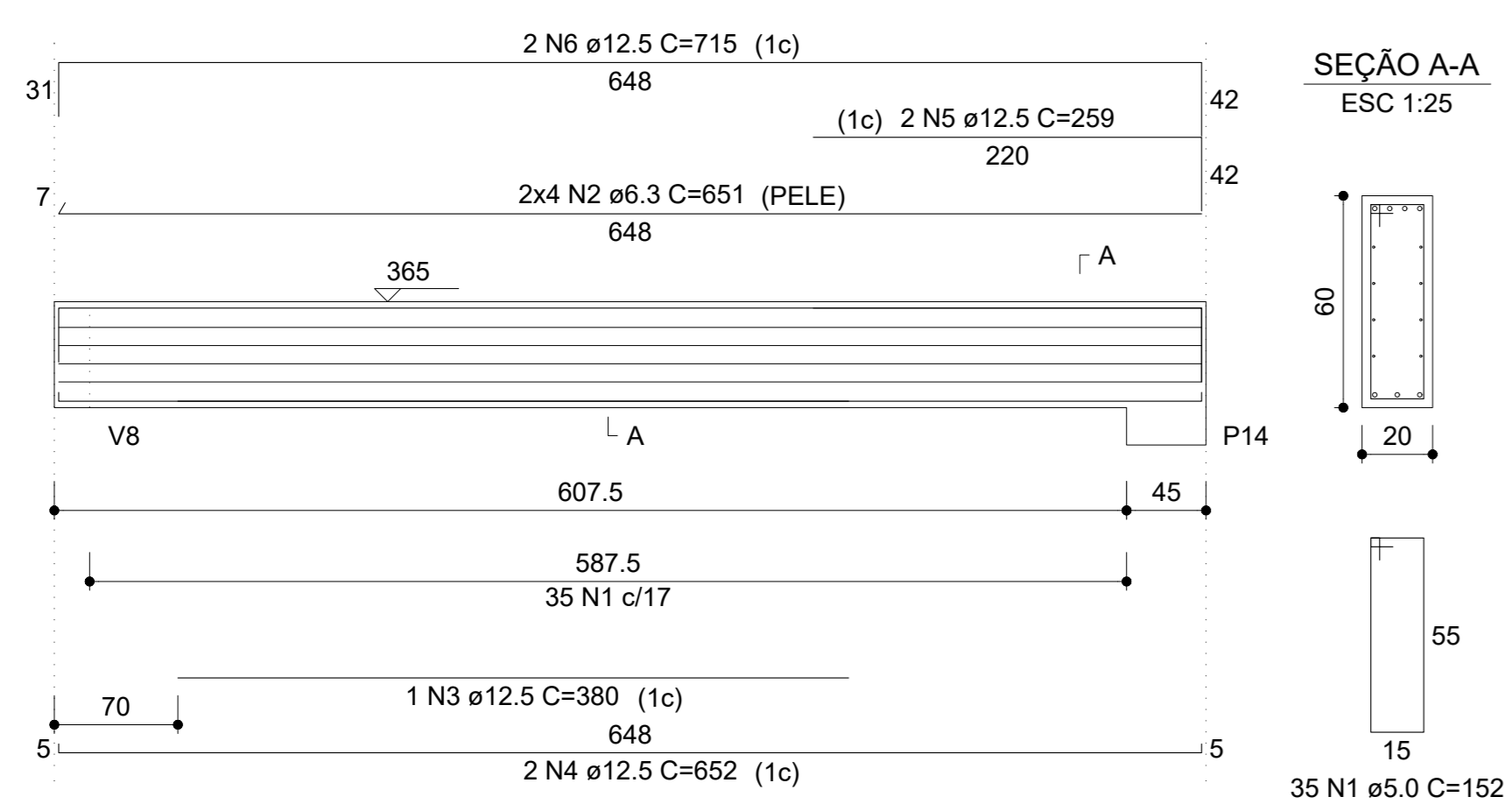
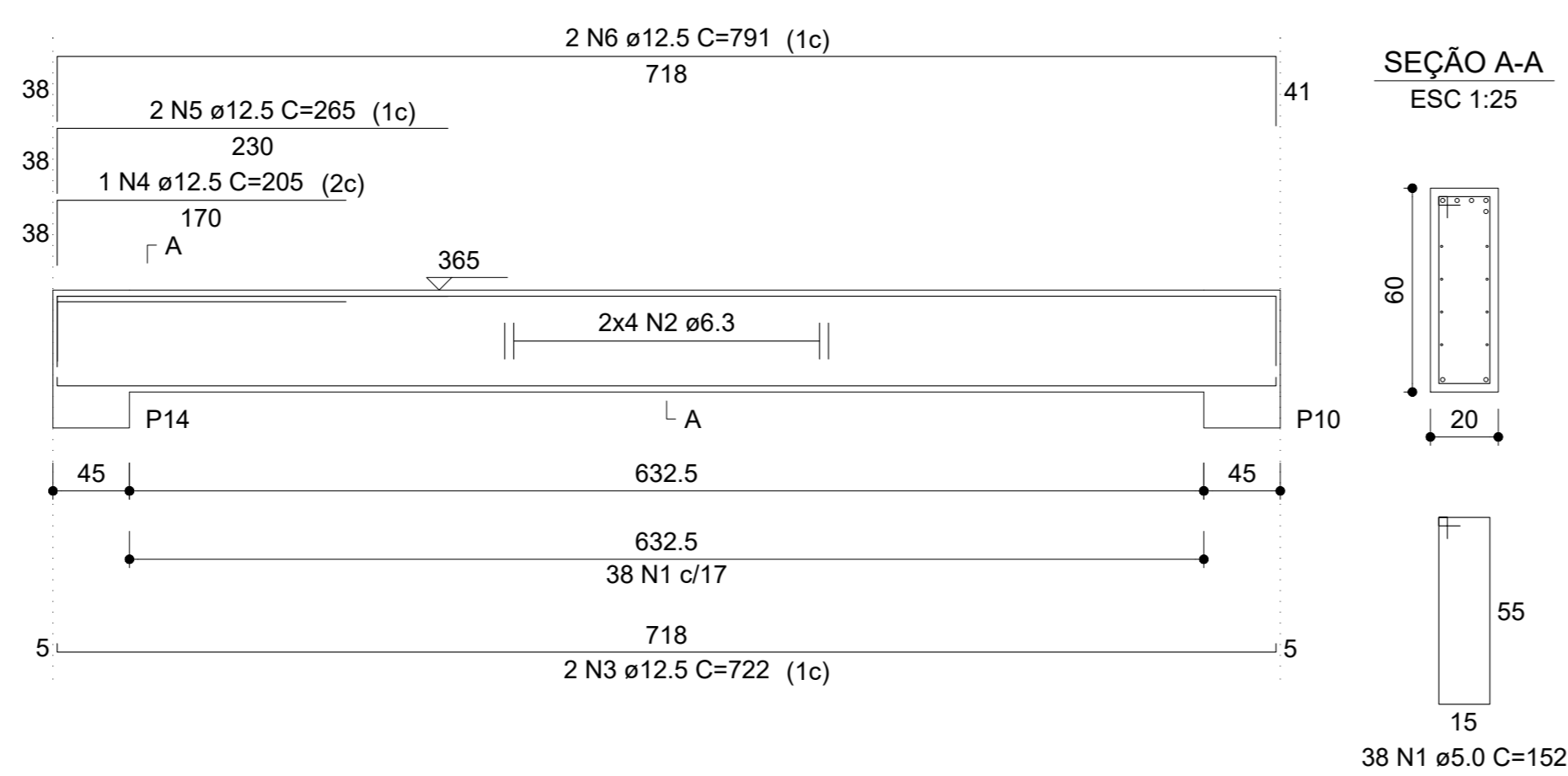


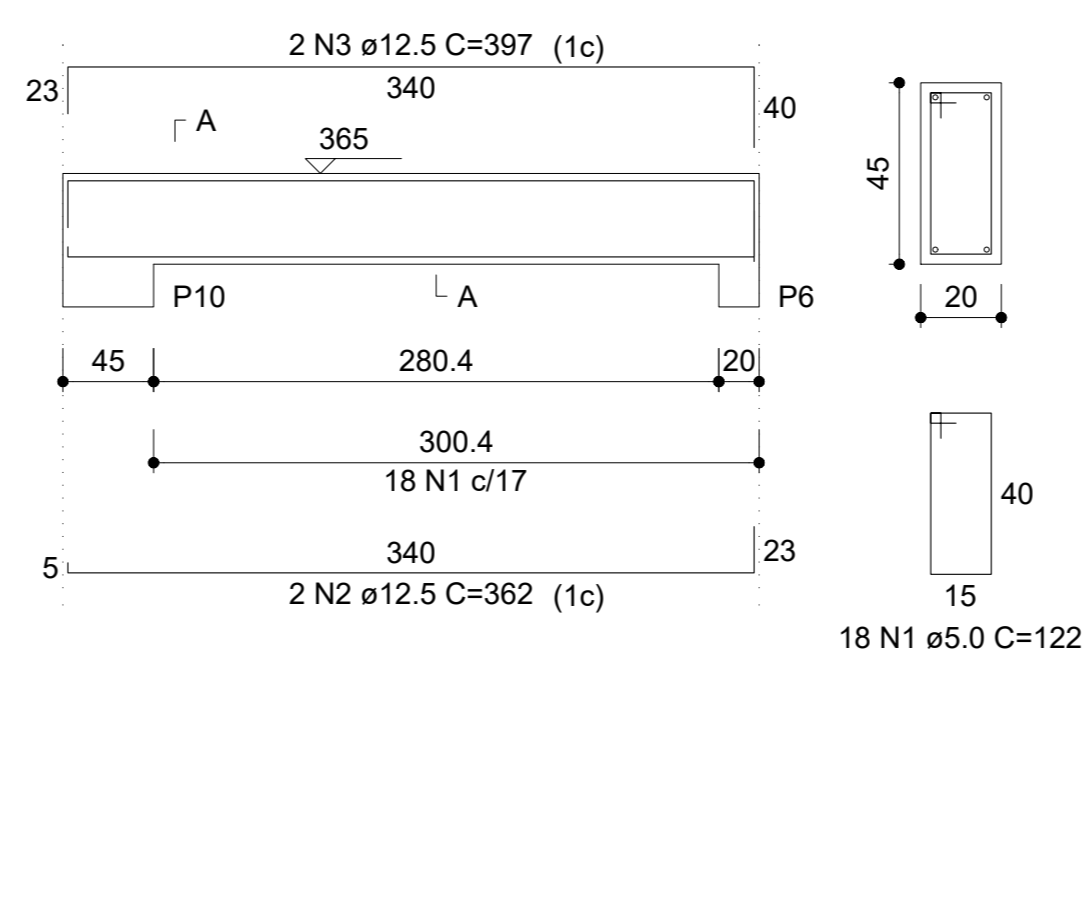
V13
ESC 1:50



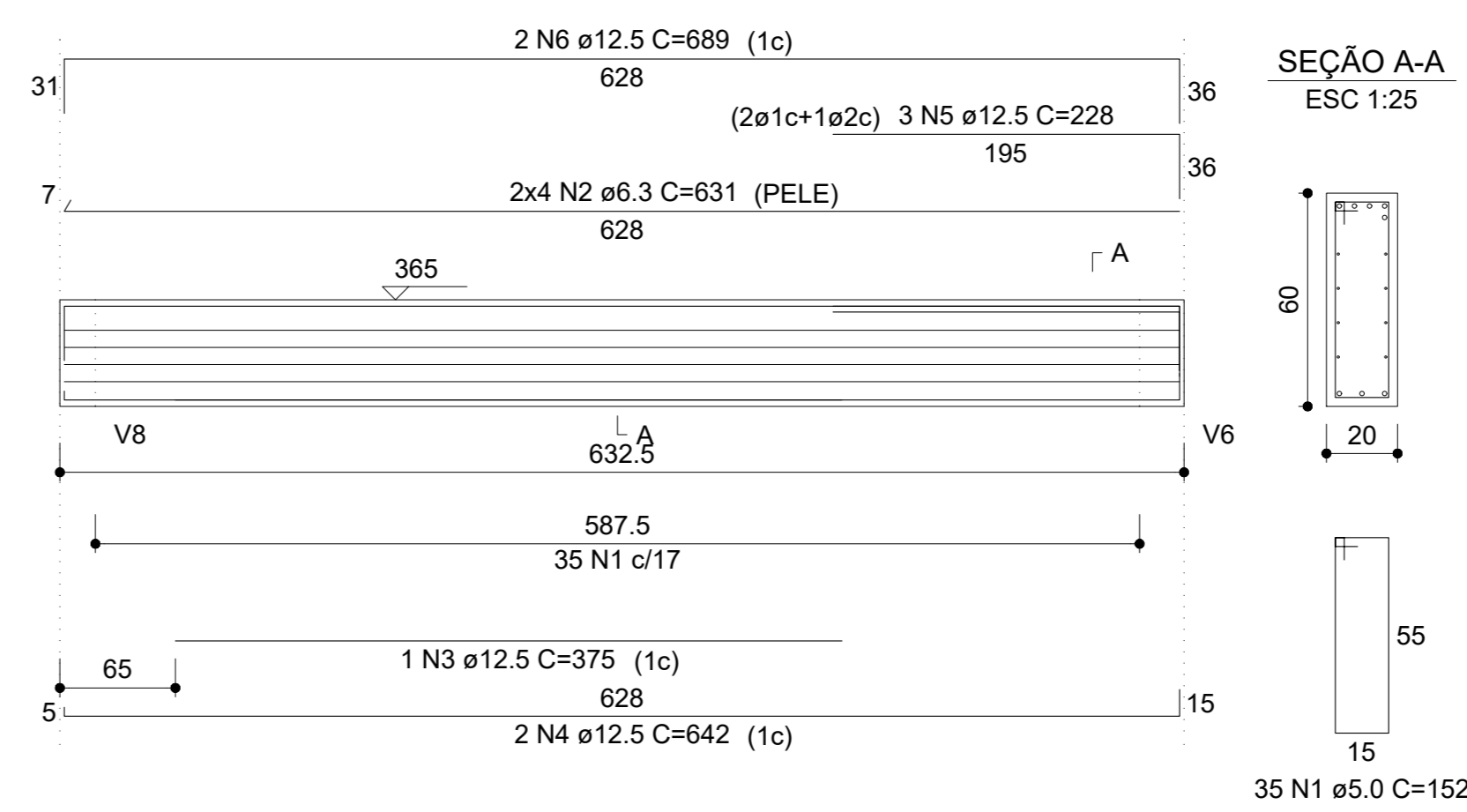
V14
ESC 1:50



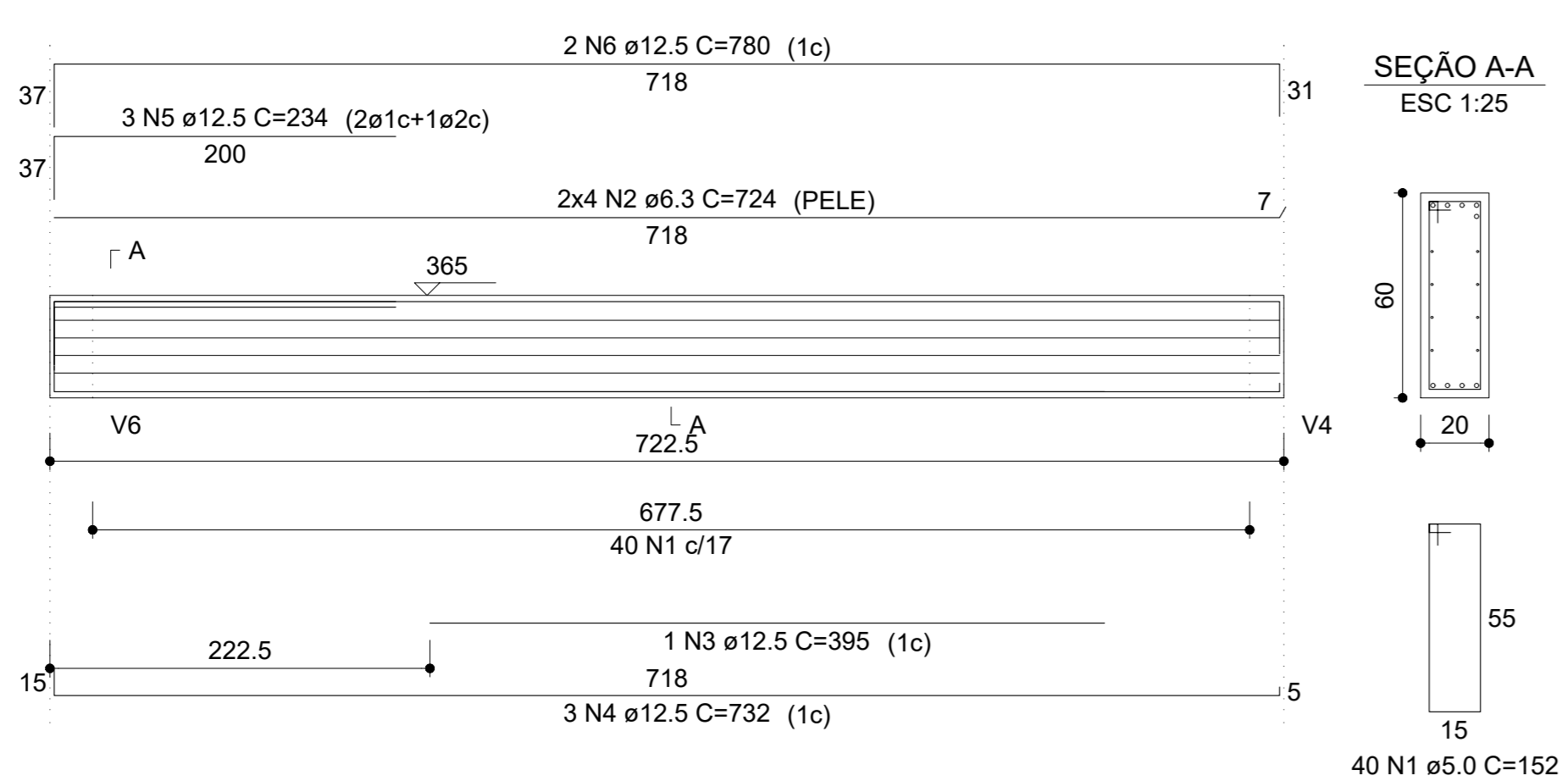
V15
ESC 1:50



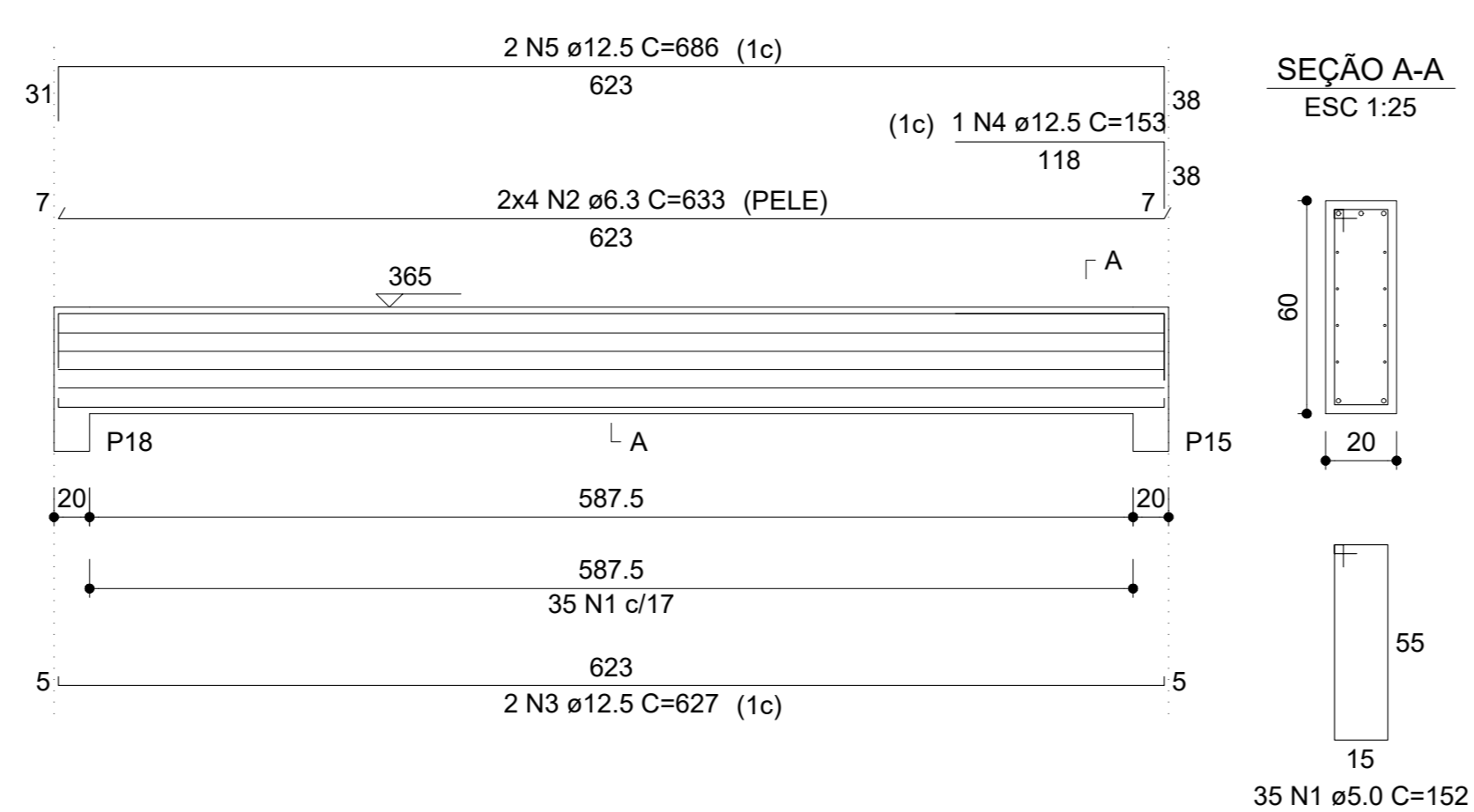
V16
ESC 1:50



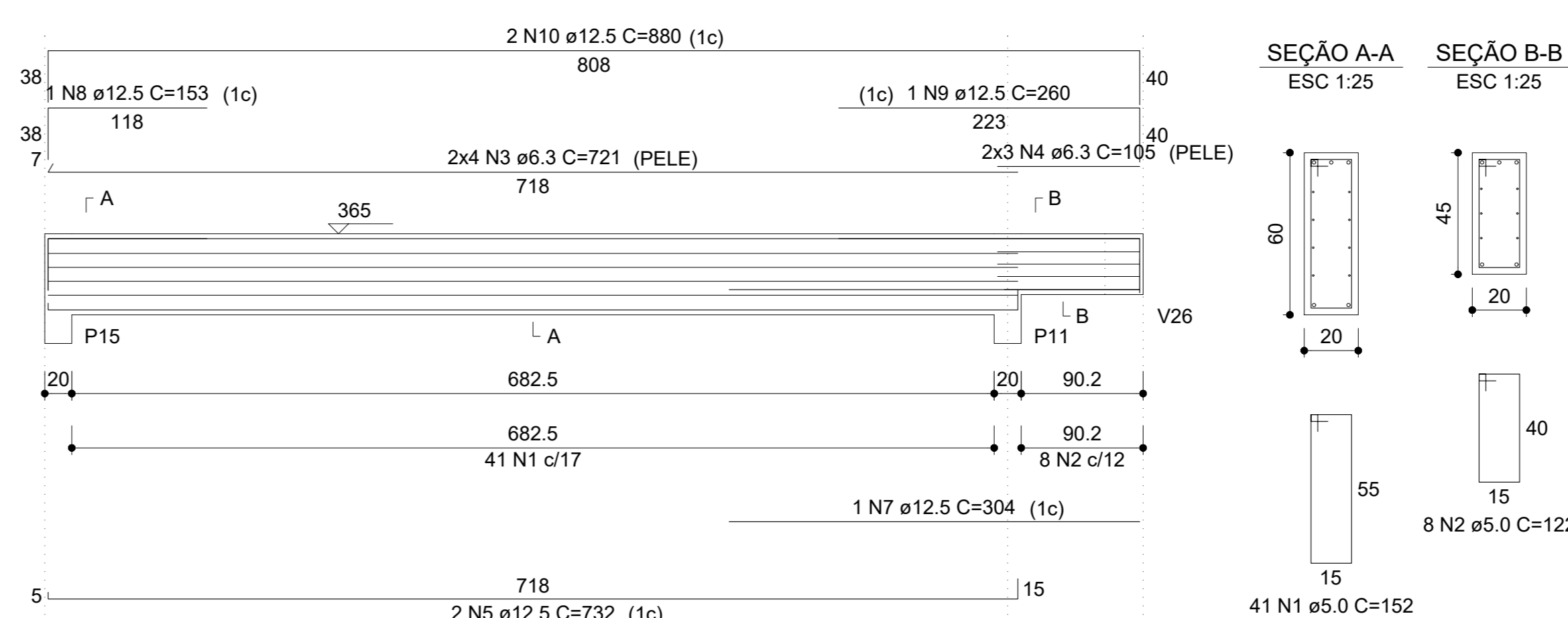
V17
ESC 1:50



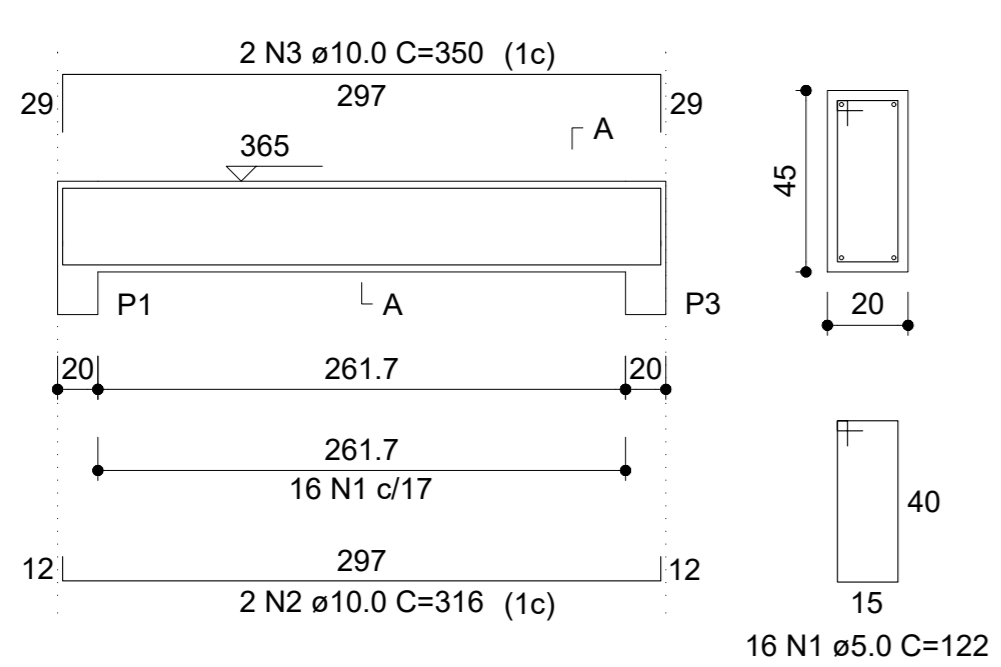
V18
ESC 1:50



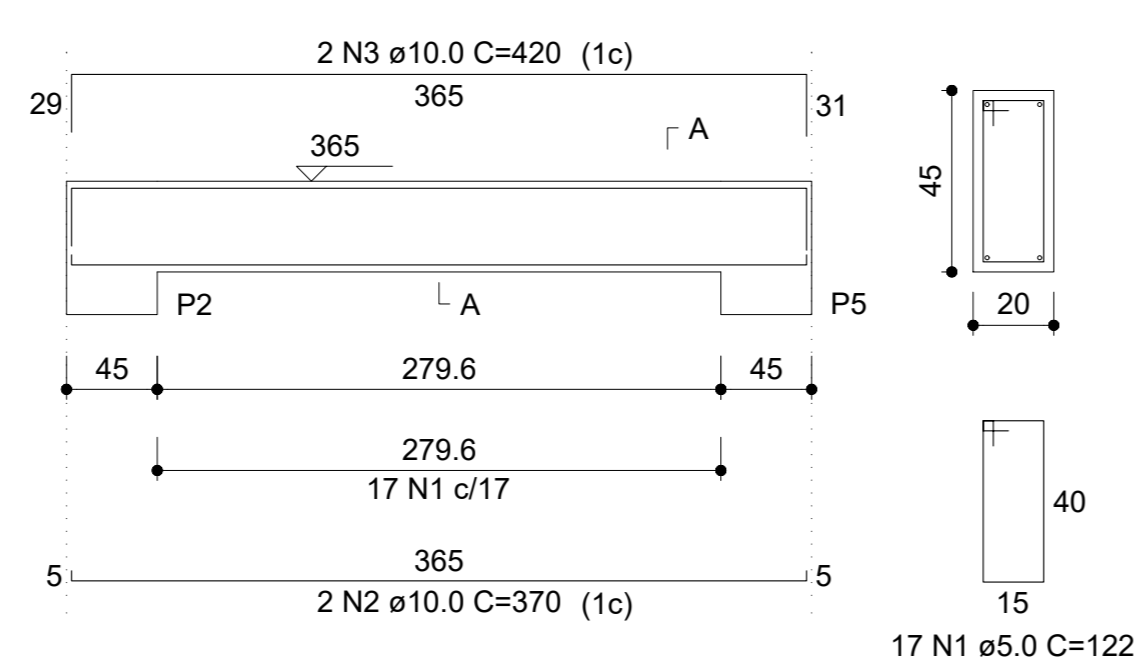
V19
ESC 1:50



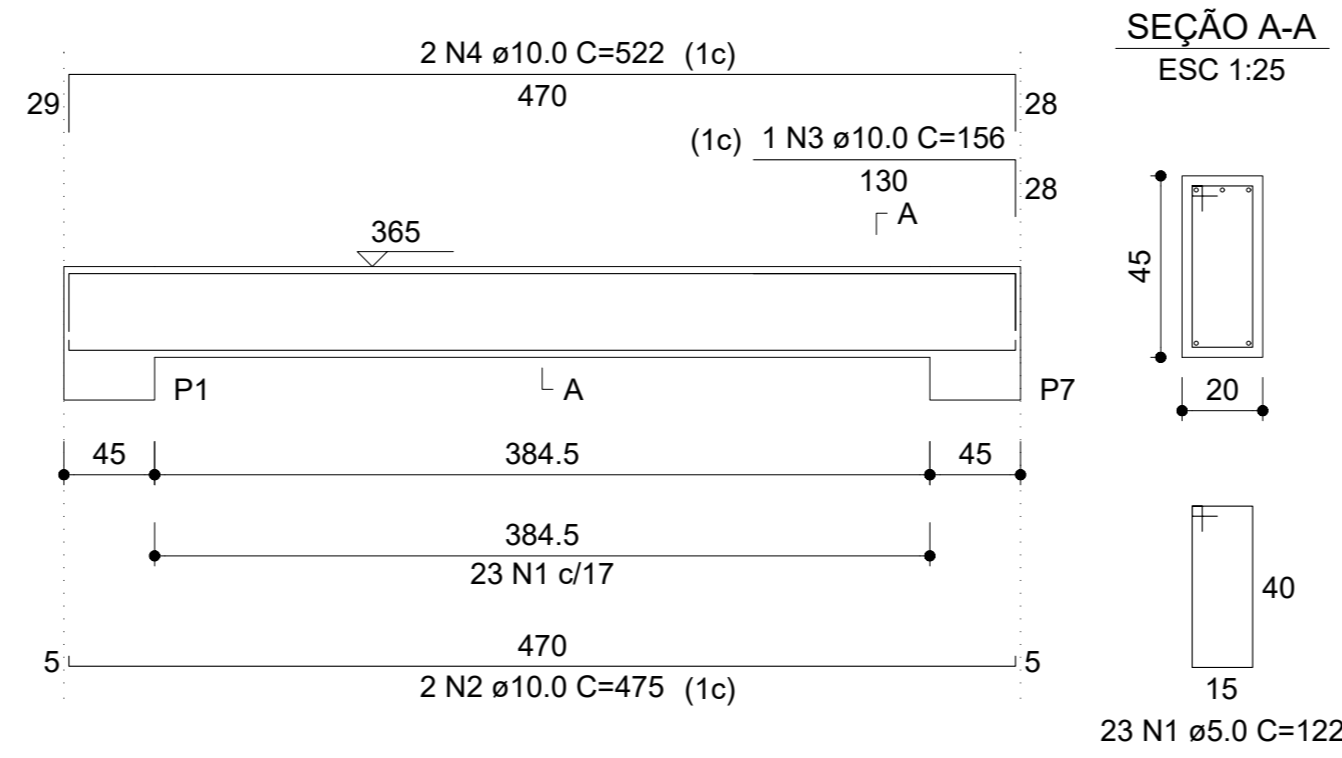
V20
ESC 1:50



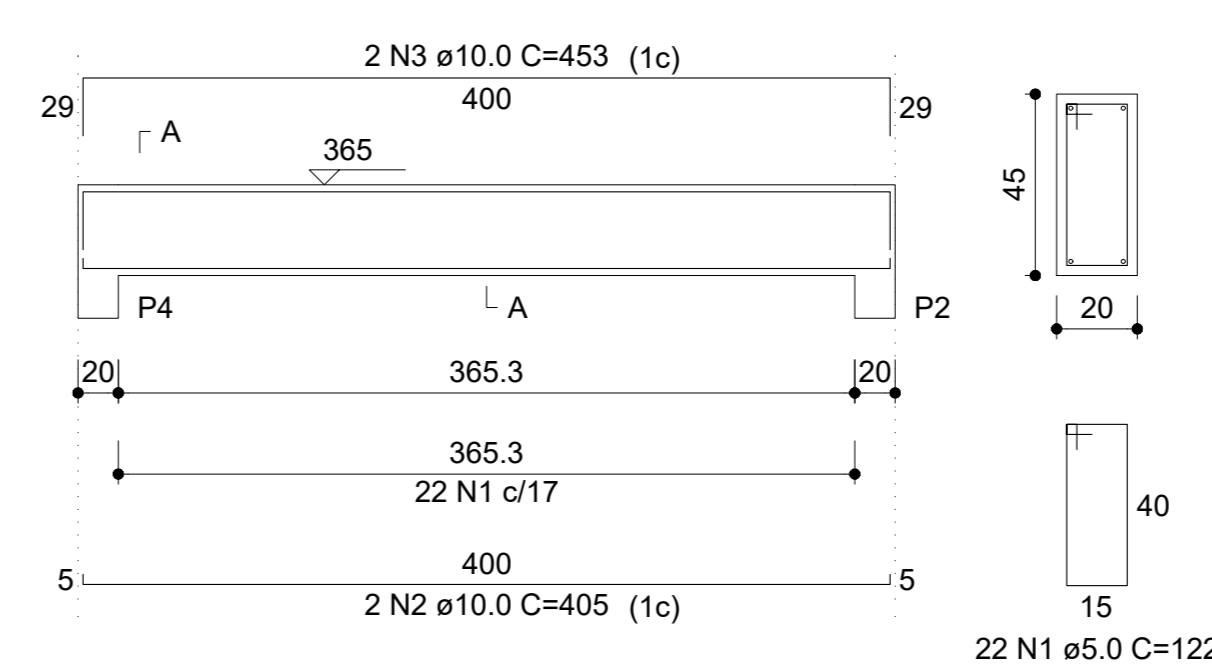
V21
ESC 1:50



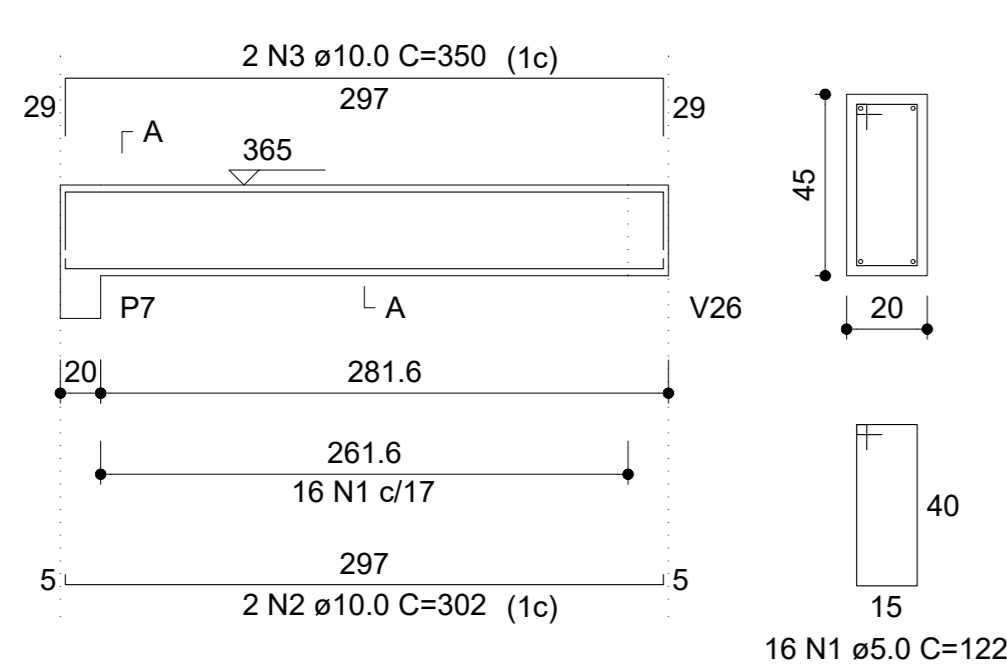
V22
ESC 1:50



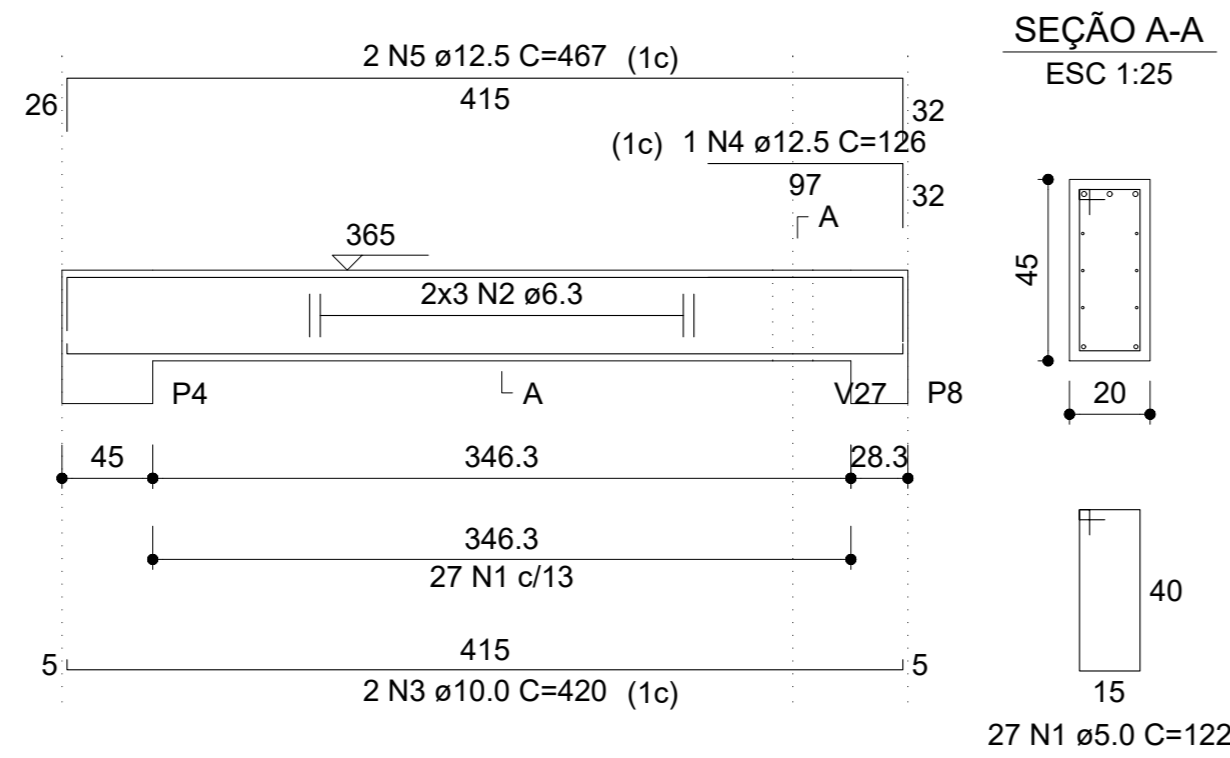
V23
ESC 1:50



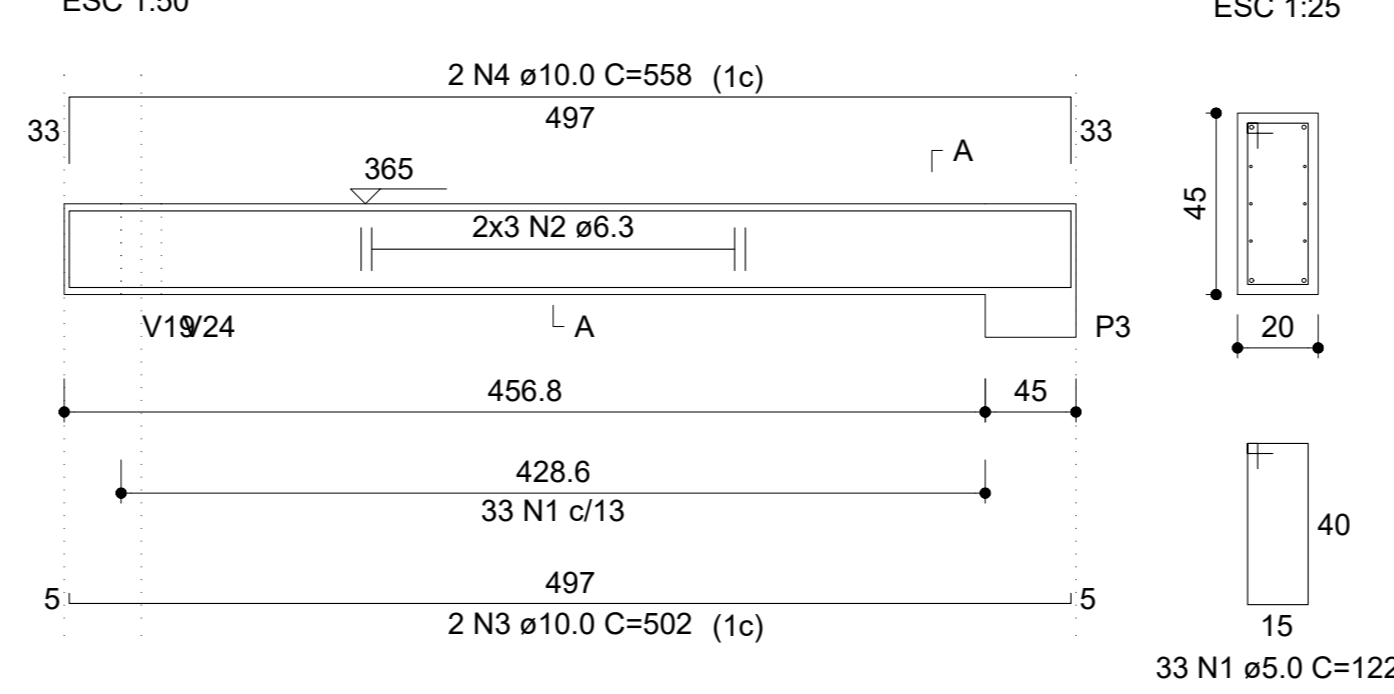
V24
ESC 1:50



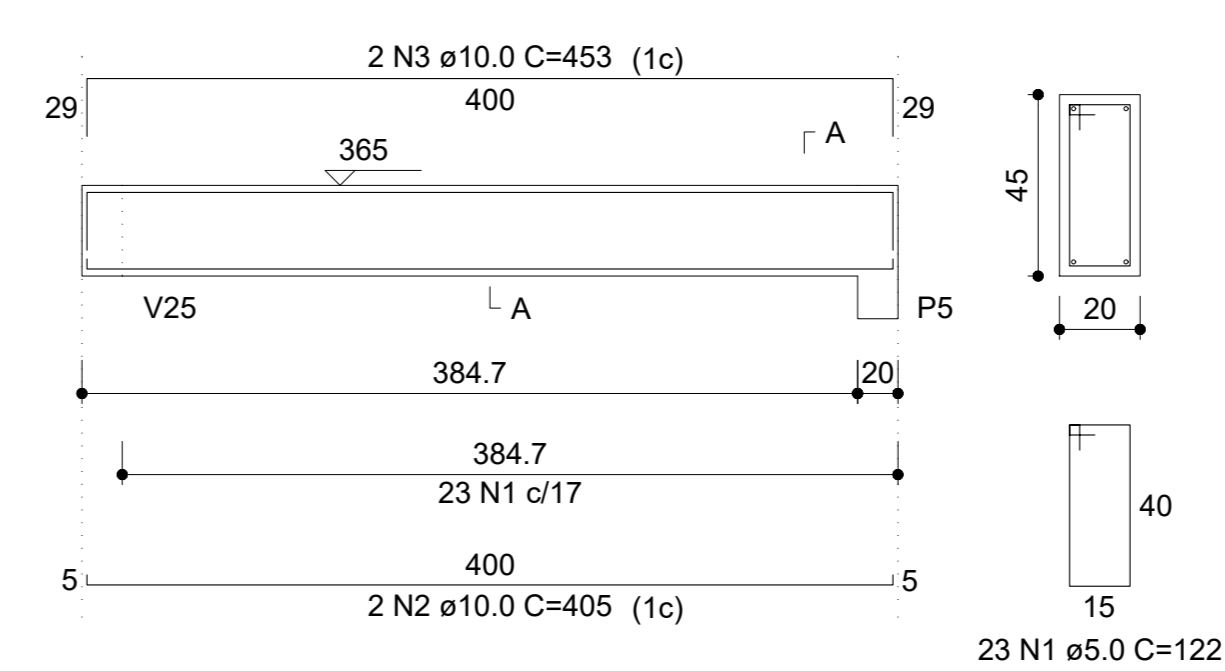
V25
ESC 1:50



V26
ESC 1:50



V27
ESC 1:50



Relação do aço

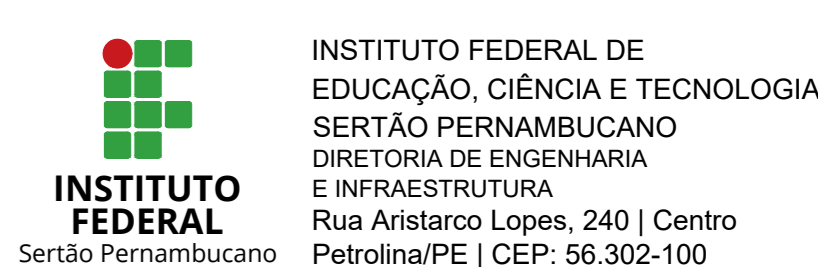
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)	
V13	CA60	1	5.0	35	152	5320	
	CA50	2	6.3	8	651	5208	
	CA50	3	12.5	1	380	380	
	CA50	4	12.5	2	652	1304	
	CA50	5	12.5	2	259	518	
	CA50	6	12.5	2	715	1430	
V14	CA60	1	5.0	38	152	5776	
	CA50	2	6.3	8	CORR	5744	
	CA50	3	12.5	2	722	1444	
	CA50	4	12.5	1	205	205	
	CA50	5	12.5	2	265	530	
	CA50	6	12.5	2	791	1582	
V15	CA60	1	5.0	18	122	2196	
	CA50	2	12.5	2	362	724	
	CA50	3	12.5	2	397	794	
	CA60	1	5.0	35	152	5320	
	CA50	2	6.3	8	631	5048	
	CA50	3	12.5	1	375	375	
V16	CA50	4	12.5	2	642	1284	
	CA50	5	12.5	3	228	684	
	CA50	6	12.5	2	689	1378	
	CA60	1	5.0	40	152	6080	
	CA50	2	6.3	8	724	5792	
	CA50	3	12.5	1	395	395	
V17	CA50	4	12.5	3	732	2196	
	CA50	5	12.5	3	234	702	
	CA50	6	12.5	2	780	1560	
	CA60	1	5.0	35	152	5320	
	CA50	2	6.3	8	633	5064	
	CA50	3	12.5	2	627	1254	
V18	CA50	4	12.5	1	153	153	
	CA50	5	12.5	2	686	1372	
	CA60	1	5.0	41	152	6232	
	CA60	2	5.0	8	122	976	
	CA50	3	6.3	8	721	5768	
	CA50	4	6.3	6	105	630	
V19	CA50	5	12.5	2	732	1464	
	CA50	6	12.5	2	120	240	
	CA50	7	12.5	1	304	304	
	CA50	8	12.5	1	153	153	
	CA50	9	12.5	1	260	260	
	CA50	10	12.5	2	880	1760	
V20	CA60	1	5.0	16	122	1952	
	CA50	2	10.0	2	316	632	
	CA50	3	10.0	2	350	700	
	CA60	1	5.0	17	122	2074	
	CA50	2	10.0	2	370	740	
	CA50	3	10.0	2	420	840	
V21	CA60	1	5.0	23	122	2806	
	CA50	2	10.0	2	475	950	
	CA50	3	10.0	1	156	156	
	CA50	4	10.0	2	522	1044	
	CA60	1	5.0	22	122	2684	
	CA50	2	10.0	2	405	810	
V22	CA50	3	10.0	2	453	906	
	CA60	1	5.0	16	122	1952	
	CA50	2	10.0	2	302	604	
	CA50	3	10.0	2	350	700	
	CA60	1	5.0	27	122	3294	
	CA50	2	6.3	6	CORR	2490	
V23	CA50	3	10.0	2	420	840	
	CA50	4	12.5	1	126	126	
	CA50	5	12.5	2	467	934	
	CA60	1	5.0	33	122	4026	
	CA50	2	6.3	6	CORR	2982	
	CA50	3	10.0	2	502	1004	
V24	CA50	4	10.0	2	558	1116	
	CA60	1	5.0	23	122	2806	
	CA50	2	10.0	2	405	810	
	CA50	3	10.0	2	453	906	
	V25	CA60	1	5.0	27	122	3294
		CA50	2	6.3	6	CORR	2490
CA50		3	10.0	2	420	840	
CA50		4	12.5	1	126	126	
CA50		5	12.5	2	467	934	
CA60		1	5.0	33	122	4026	
V26	CA50	2	6.3	6	CORR	2982	
	CA50	3	10.0	2	502	1004	
	CA50	4	10.0	2	558	1116	
	CA60	1	5.0	23	122	2806	
	CA50	2	10.0	2	405	810	
	CA50	3	10.0	2	453	906	

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	387.3	104.2
CA50	10.0	127.6	86.5
CA50	12.5	255.1	270.3
CA60	5.0	588.2	99.7

PESO TOTAL (kg)	
CA50	461
CA60	99.7

Volume de concreto (C-30) = 8.15 m³
Área de forma = 96.85 m²



INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
SERTÃO PERNAMBUCANO
DIRETORIA DE ENGENHARIA E INFRAESTRUTURA
Rua Aristarco Lopes, 240 | Centro
Petrolina/PE | CEP: 56.302-100

BLOCO DE SALAS LABMAKER
BR - 222, Km 506, s/n - Zona Rural, CEP: 56900-000, Salgueiro - PE, Brazil.

Projeto: MARCOS ANTONIO PADILHA JUNIOR
ENGENHEIRO CIVIL
CREA/PE - 15877517-8
Proprietário: INSTITUTO FEDERAL DE SERTÃO PERNAMBUCANO
NATUREZA JURÍDICA: AUTARQUIA FEDERAL - CÓDIGO 1104
RESPONSABILIDADE LEGAL: JOSEILDO FORTE DE BRITO

Projeto: **CÁLCULO ESTRUTURAL**

Descrição: **Armação das Vigas do Pavimento Coberto V13-V27**

Data: MAIO/2021 Escala: Indica: Desenho: MARCOS PADILHA Conteúdo: MARCOS PADILHA