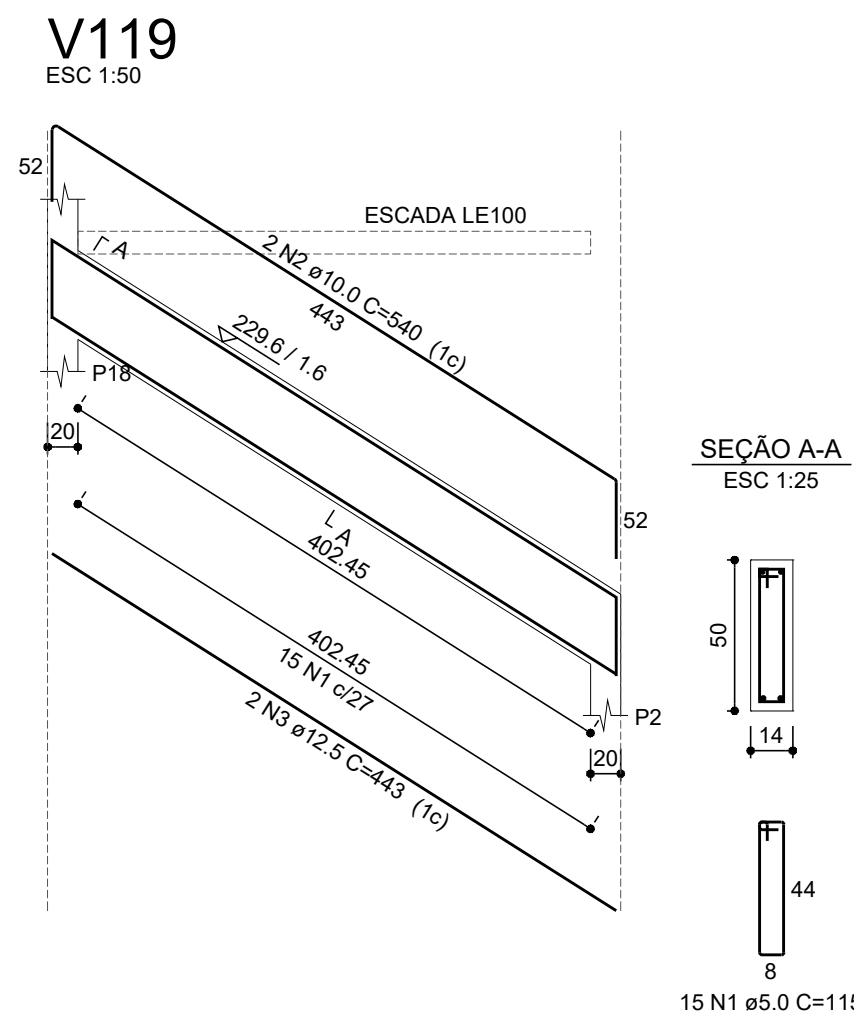
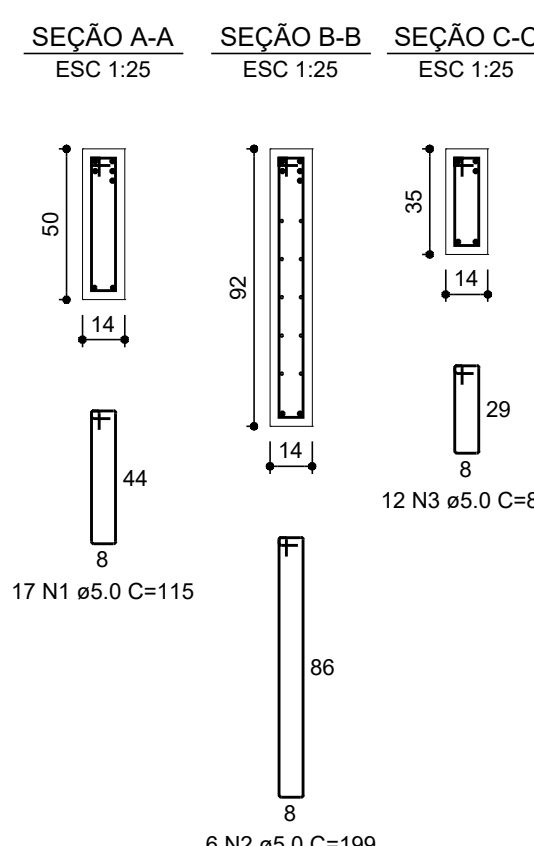
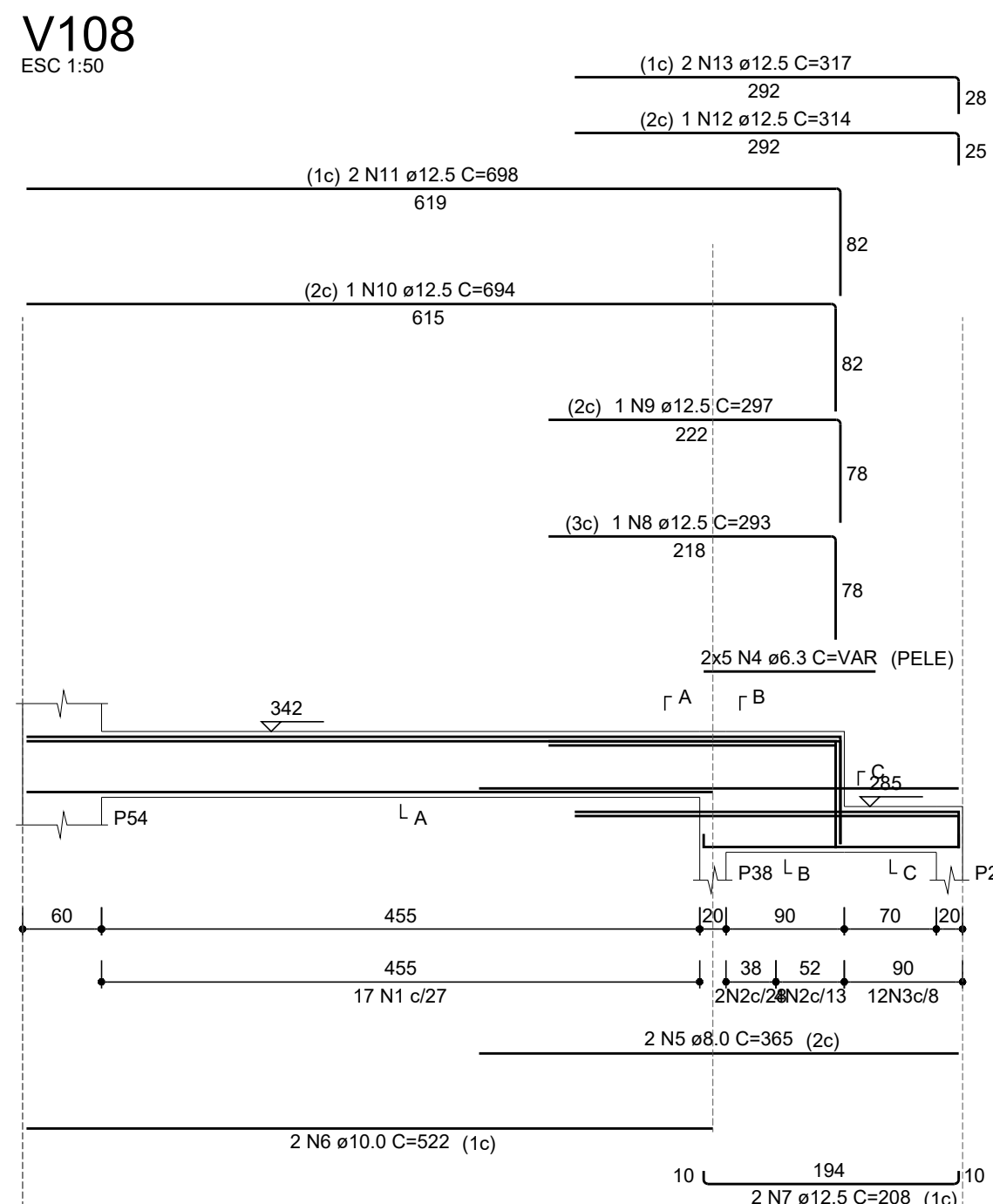
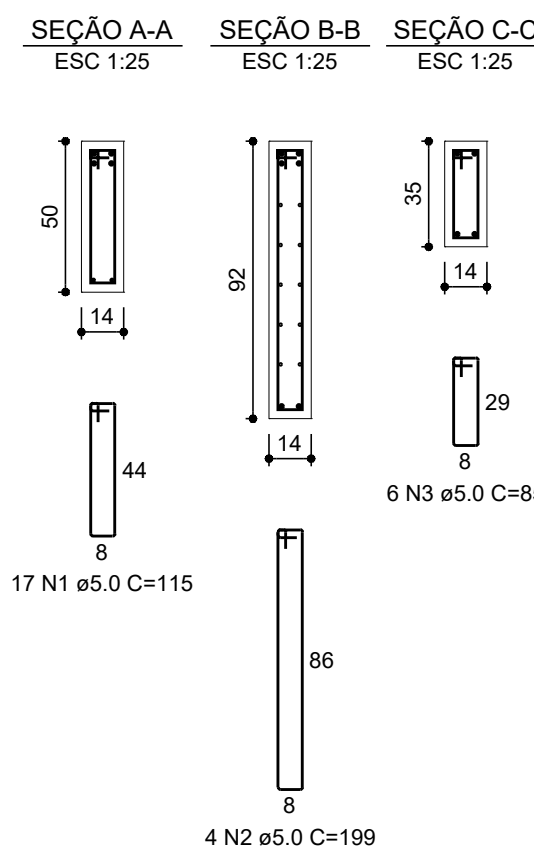
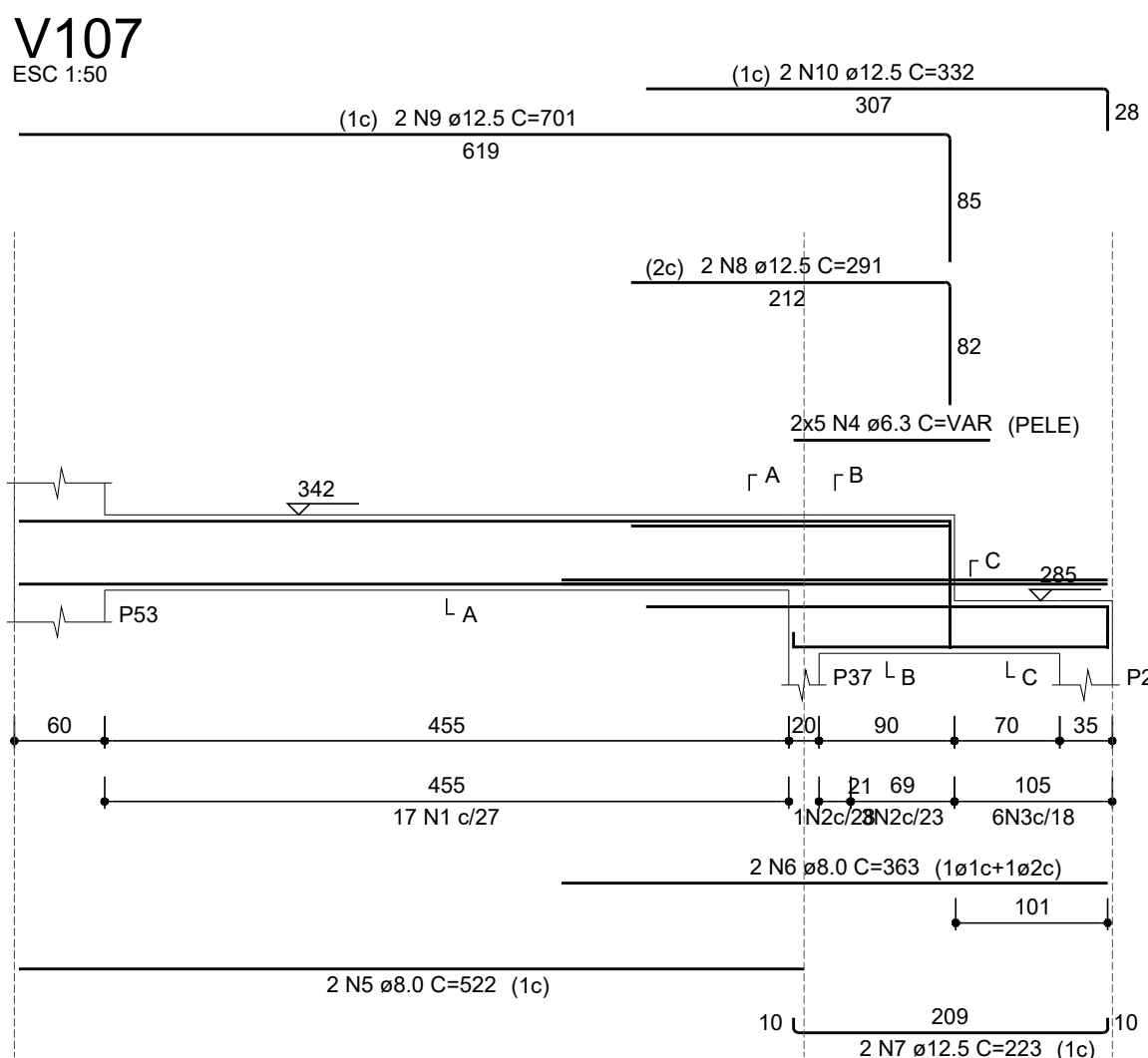
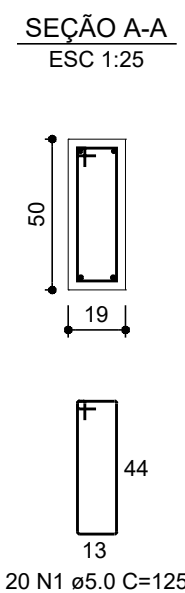
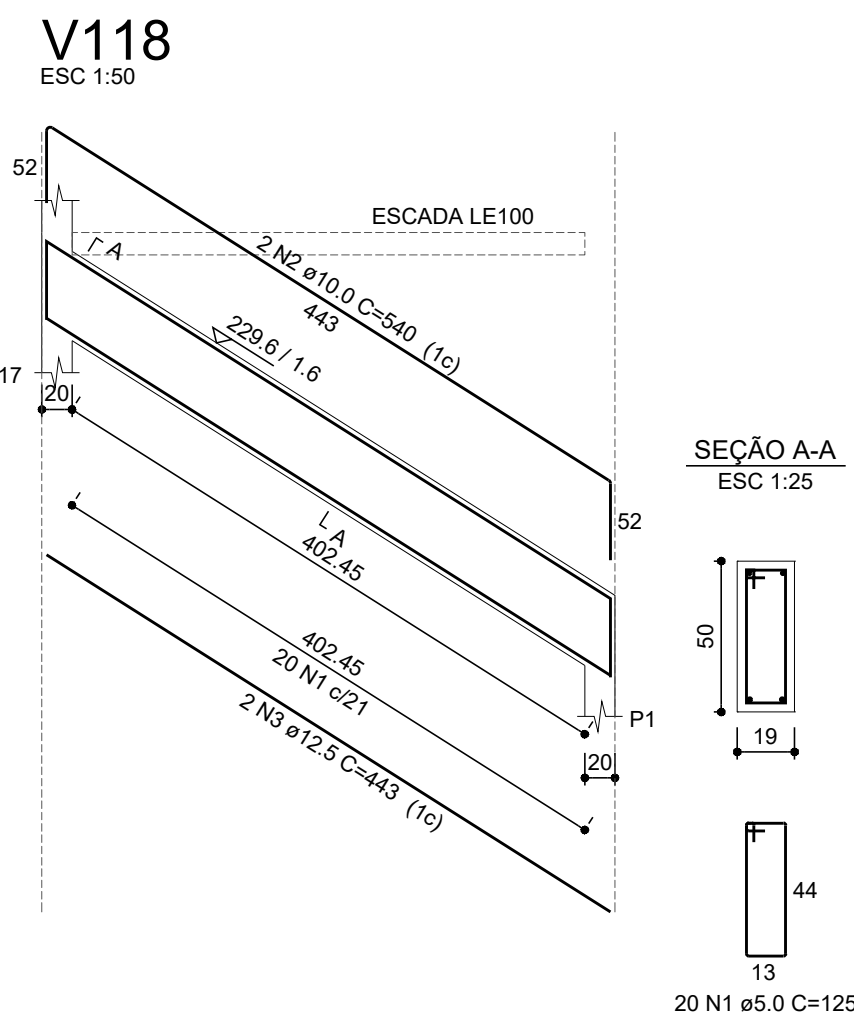
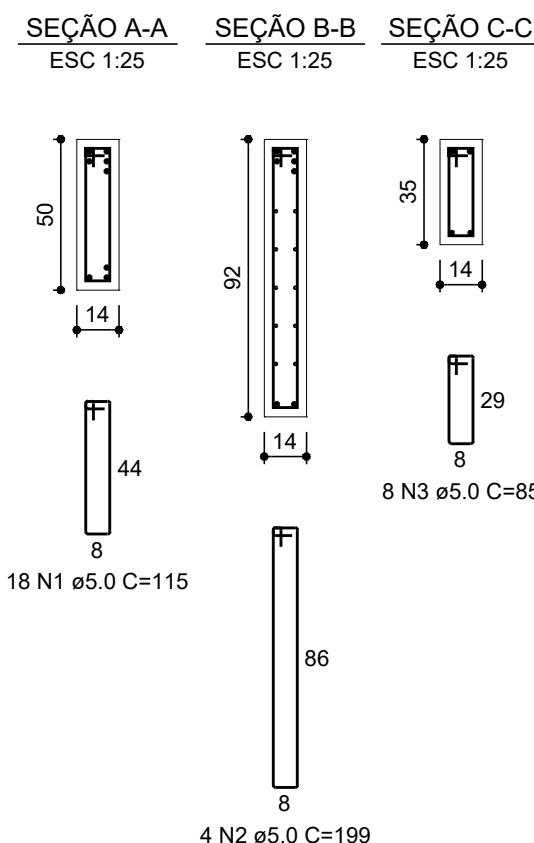
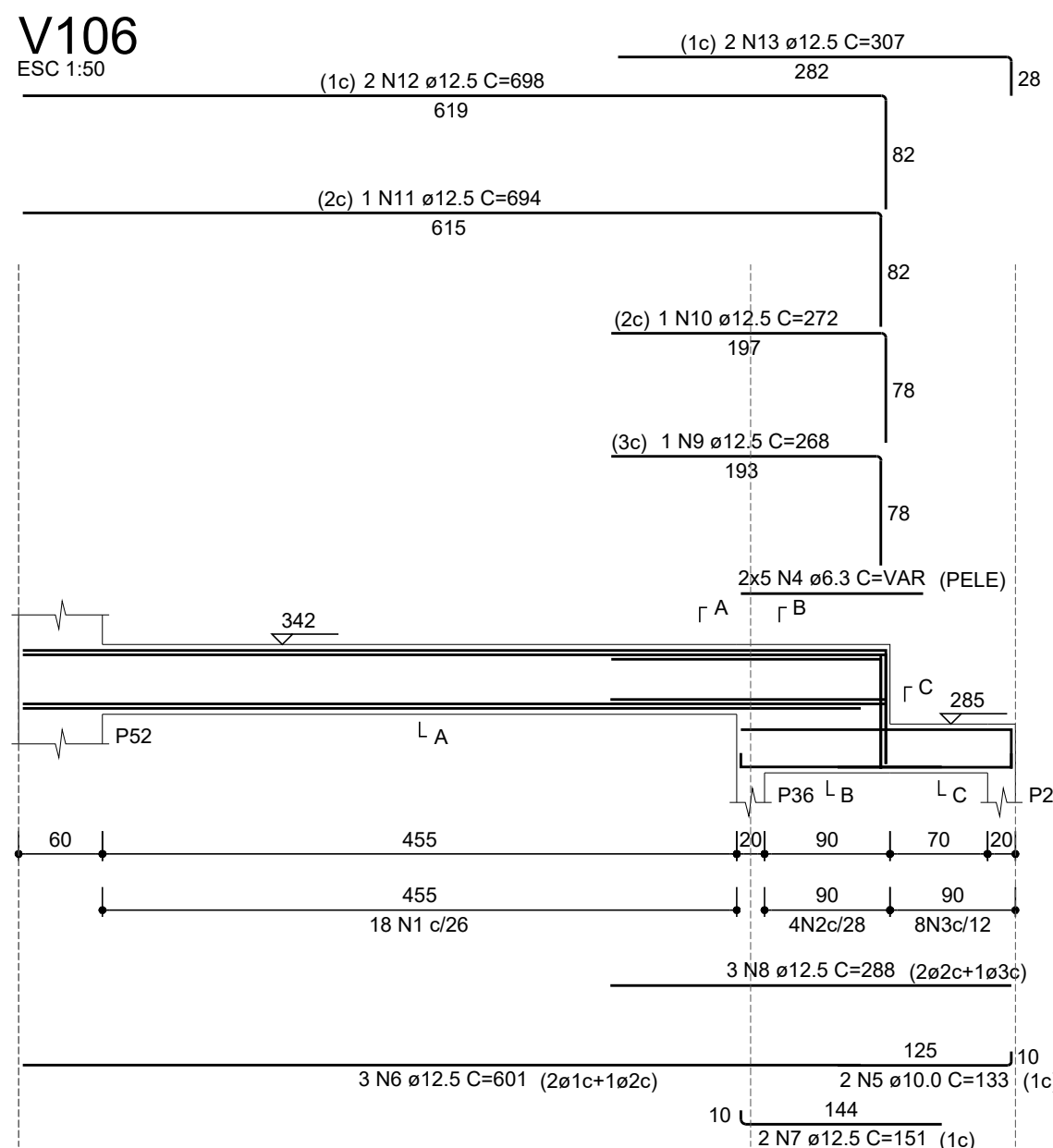
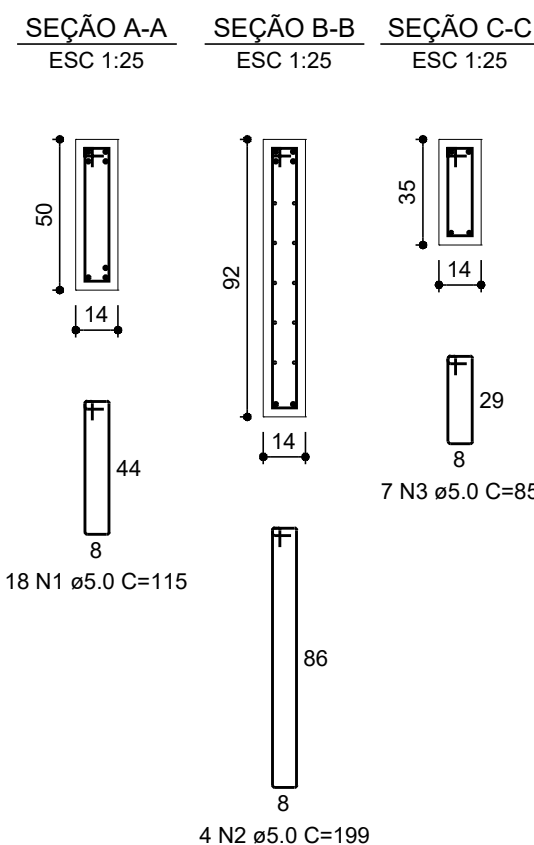
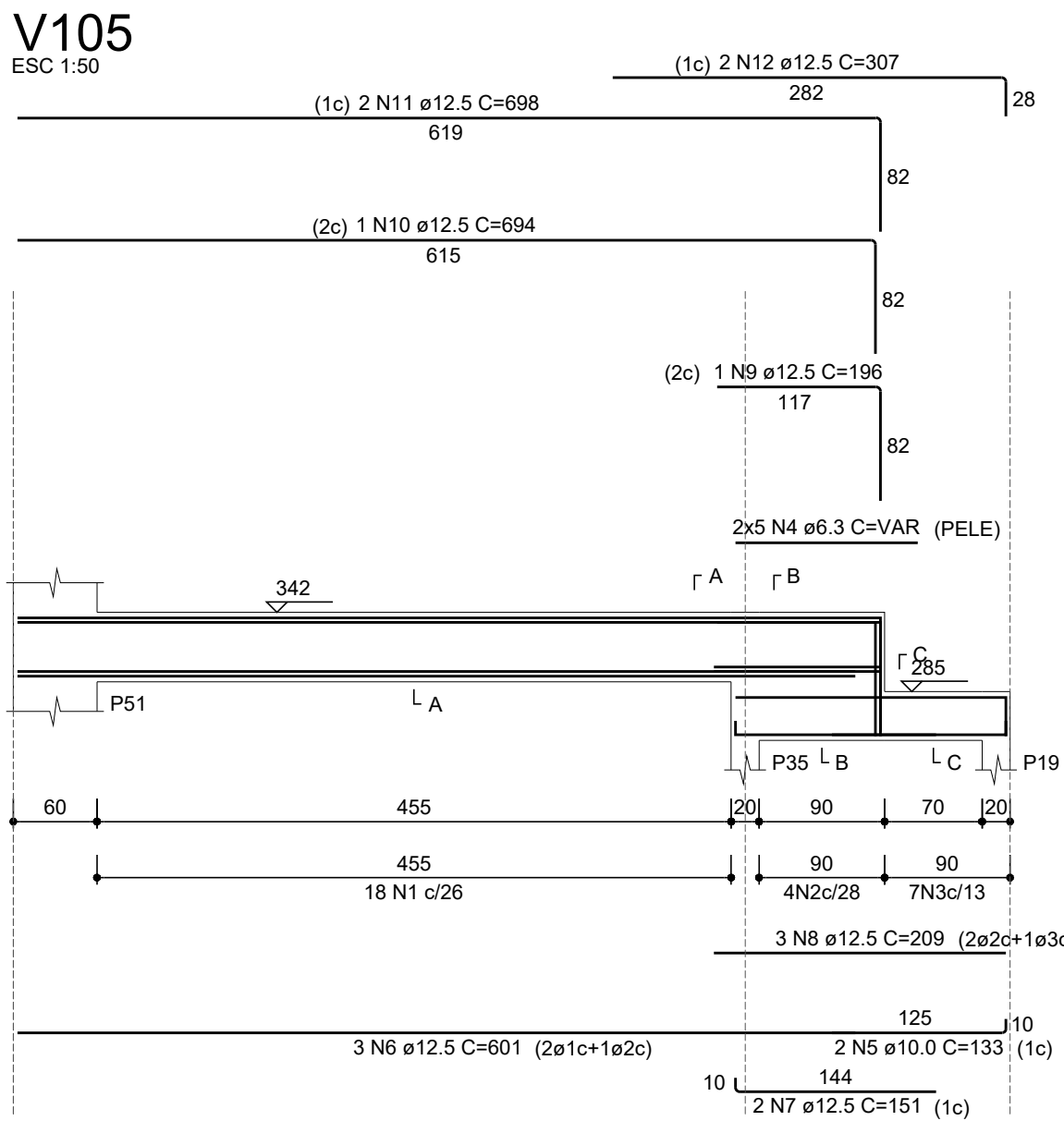
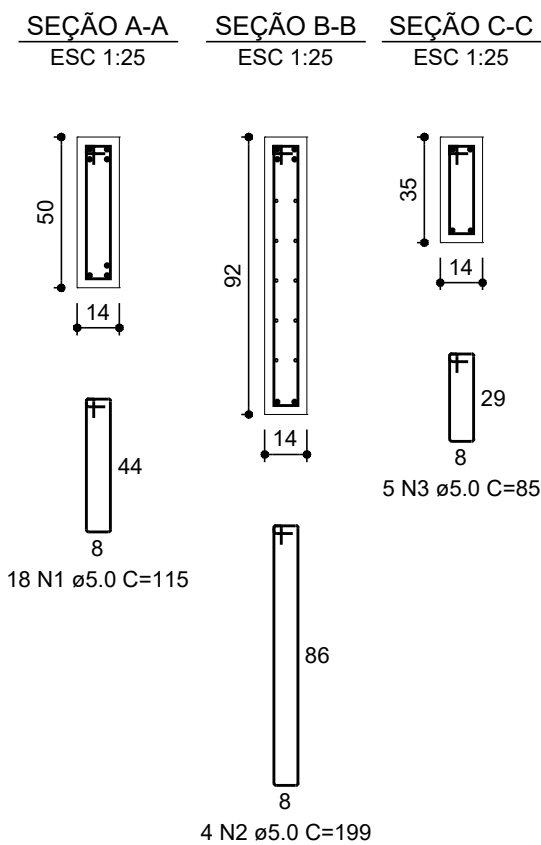
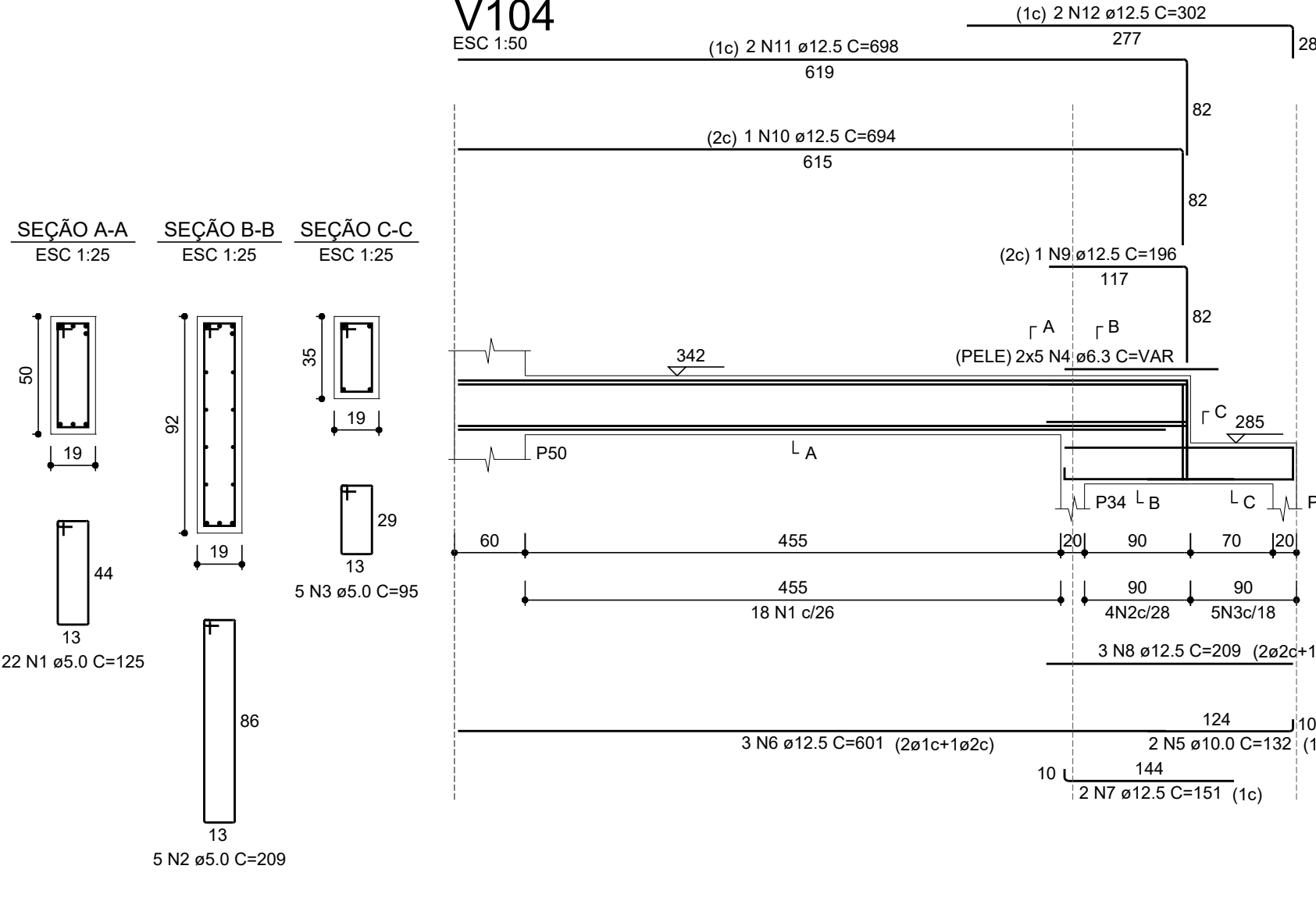
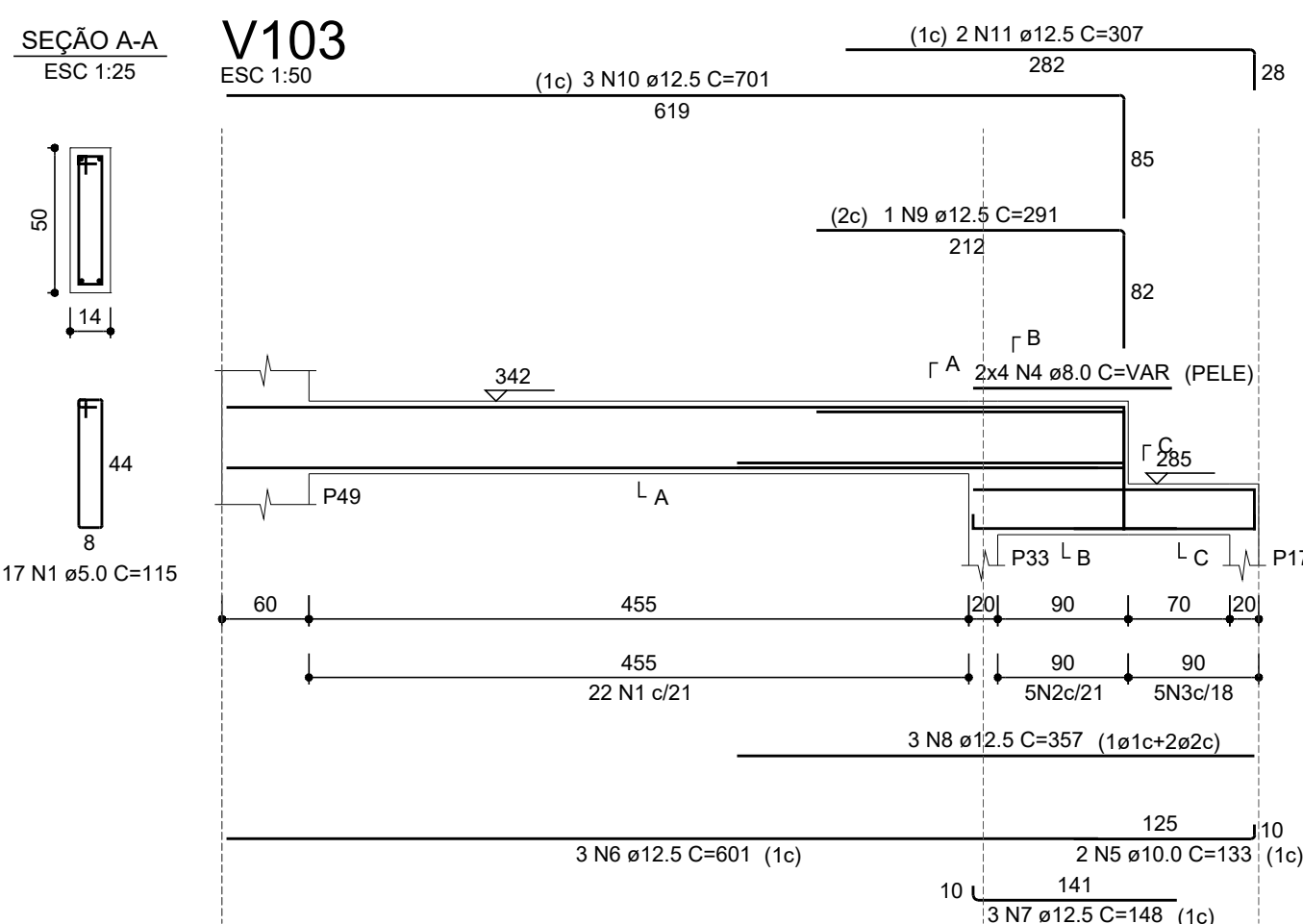
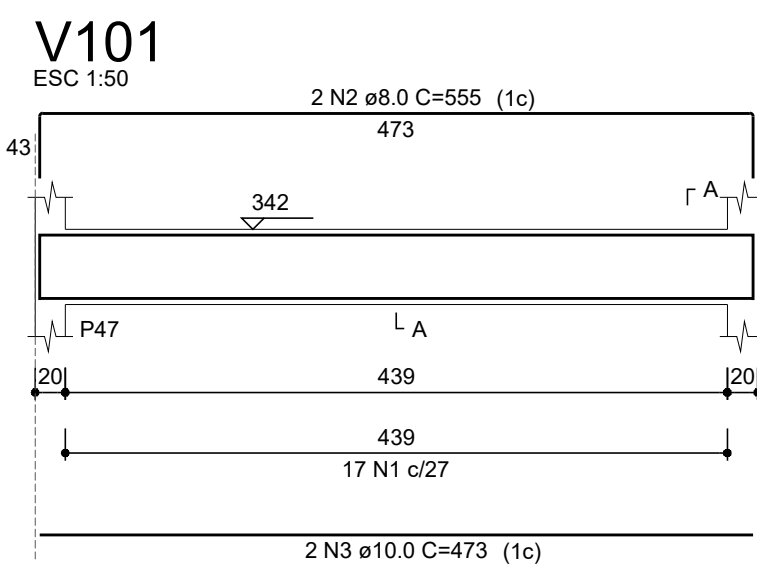


RELAÇÃO DO AÇO						
ELEMENTO	AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
V101	CA60	1	5.0	17	115	1955
	CA50	2	8.0	2	555	1110
	CA50	3	10.0	2	473	946
	CA60	1	5.0	22	125	2750
	CA60	2	5.0	5	209	1045
	CA60	3	5.0	5	95	475
	CA50	4	8.0	8	VAR	VAR
	CA50	5	10.0	2	133	266
	CA50	6	12.5	3	601	1803
	CA50	7	12.5	3	148	444
V103	CA60	1	5.0	18	115	2070
	CA50	9	12.5	1	291	291
	CA50	10	12.5	3	701	2103
	CA50	11	12.5	2	307	614
	CA60	1	5.0	18	115	2070
	CA60	2	5.0	4	199	796
	CA60	3	5.0	5	85	425
	CA50	4	10.0	2	132	264
	CA50	6	12.5	3	601	1803
	CA50	7	12.5	3	151	302
V104	CA50	8	12.5	3	209	627
	CA50	9	12.5	1	196	196
	CA50	10	12.5	1	694	694
	CA50	11	12.5	2	698	1396
	CA50	12	12.5	2	302	604
	CA60	1	5.0	18	115	2070
	CA50	2	5.0	4	199	796
	CA60	3	5.0	7	85	595
	CA50	4	6.3	10	VAR	VAR
	CA50	5	10.0	2	133	266
V105	CA50	6	12.5	3	601	1803
	CA50	7	12.5	3	151	302
	CA50	8	12.5	3	209	627
	CA50	9	12.5	1	196	196
	CA50	10	12.5	1	694	694
	CA50	11	12.5	2	698	1396
	CA50	12	12.5	2	307	614
	CA60	1	5.0	18	115	2070
	CA60	2	5.0	4	199	796
	CA60	3	5.0	8	85	680
V106	CA50	4	6.3	10	VAR	VAR
	CA50	5	10.0	2	133	266
	CA50	6	12.5	3	601	1803
	CA50	7	12.5	2	151	302
	CA50	8	12.5	3	209	627
	CA50	9	12.5	1	196	196
	CA50	10	12.5	1	694	694
	CA50	11	12.5	2	698	1396
	CA50	12	12.5	2	307	614
	CA60	1	5.0	17	115	1955
V107	CA60	2	5.0	4	199	796
	CA60	3	5.0	6	85	510
	CA50	4	6.3	10	VAR	VAR
	CA50	5	8.0	2	522	1044
	CA50	6	8.0	2	363	726
	CA50	7	12.5	2	223	446
	CA50	8	12.5	2	291	582
	CA50	9	12.5	2	701	1402
	CA50	10	12.5	2	332	664
	CA60	1	5.0	17	115	1955
V108	CA60	2	5.0	6	199	1194
	CA60	3	5.0	12	85	1020
	CA50	4	6.3	10	VAR	VAR
	CA50	5	8.0	2	365	730
	CA50	6	10.0	2	522	1044
	CA50	7	12.5	2	208	416
	CA50	8	12.5	1	293	293
	CA50	9	12.5	1	297	297
	CA50	10	12.5	1	694	694
	CA50	11	12.5	2	698	1396
V118	CA50	12	12.5	1	314	314
	CA50	13	12.5	2	317	634
	CA60	1	5.0	20	125	2500
	CA50	2	10.0	2	540	1080
	CA50	3	12.5	2	443	886
	CA60	1	5.0	15	115	1725
	CA50	2	10.0	2	540	1080
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
V119	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886
	CA50	3	12.5	2	443	886

RESUMO DO AÇO			
AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 0% (kg)
CA50	6.3	65.5	16
	8.0	47.1	18.6
	10.0	52.1	32.1
	12.5	327	315
	5.0	281.8	43.4
PESO TOTAL (kg)			
CA50	381.8		
CA60	43.4		

Volume de concreto (C-25) = 3.96 m³
Área de forma = 55.66 m²

NOTAS

- 1 - A LOCAÇÃO DA OBRA DEVERÁ SER CONFIRMADA PELA CONSTRUTORA;
- 2 - MEDIDAS EM CENTÍMETROS;
- 3 - CONFERIR MEDIDAS NA OBRA;
- 4 - CONCRETO ESTRUTURAL: Fck ≥ 25MPa, Eci=28000MPa E FATOR ÁGUA CIMENTO = 0.55.

REVISÕES

Nº	DISCRIMINAÇÃO	DATA	VERIFICAÇÃO
0	ENTREGA INICIAL P/ CLIENTE	05/07/2023	S. HAMMINE

HAMMINE ENGENHARIA CNPJ: 30.274.683/0001-65			PREFEITURA MUNICIPAL DE VISTA ALEGRE DO ALTO Praça Dr. Emílio Henrique Ower Sandoth, 278 - Centro Telefone: (16) 3277-8300 E-mail: pmvaa@vistaalegre-doalto.sp.gov.br			
	OBRA: CONSTRUÇÃO DE ARQUIBANCADA DO ESTÁDIO MUNICIPAL		LOCAL: RUA ETELVINO DE SOUZA, Nº 130 - VISTA ALEGRE DO ALTO			
	OBJETO: PROJETO DE ESTRUTURA DE CONCRETO ARMADO		ASSUNTO: DETALHAMENTO DAS ARMADURAS DAS VIGAS V101, V103 A V108, V118 E V119			
	Prefeitura Municipal de Vista Alegre do Alto CNPJ: 52.854.775/0001-28		Said Abou Hammine Filho ENGENHEIRO CIVIL - CREA-SP: 506.301.169-7 A.R.T. Nº: 2802/23029/07080			
INDICADA			DATA: JULHO/2023	DESENHO: IGOR FERREIRA		
ECONOMIA			ECA-06/15			