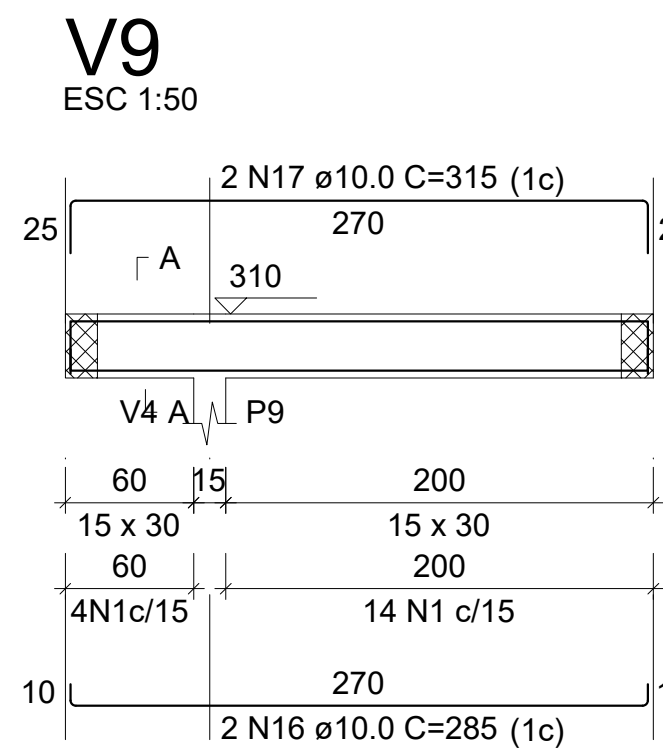
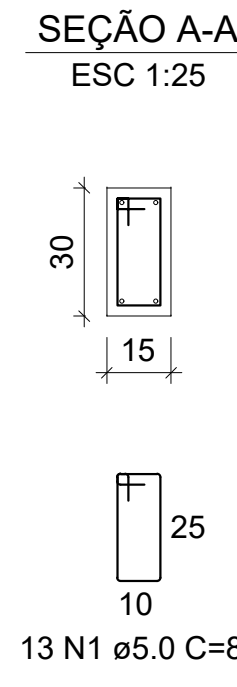
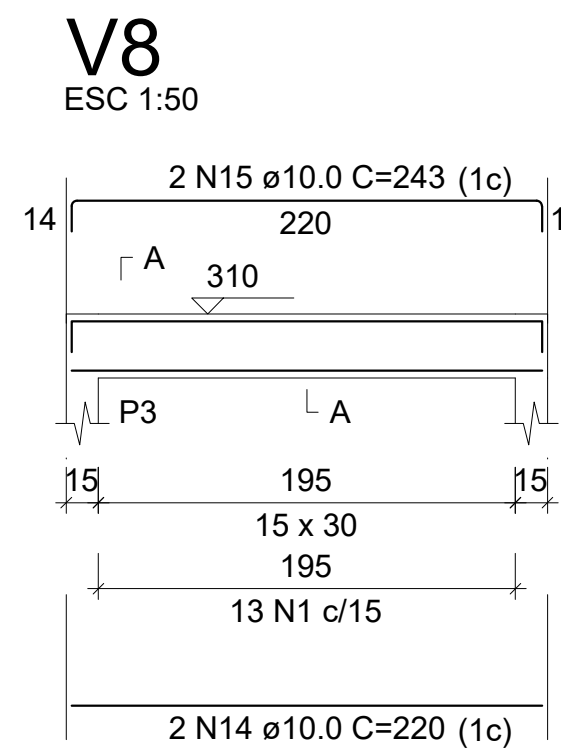
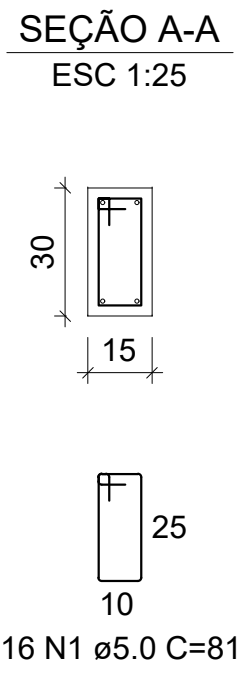
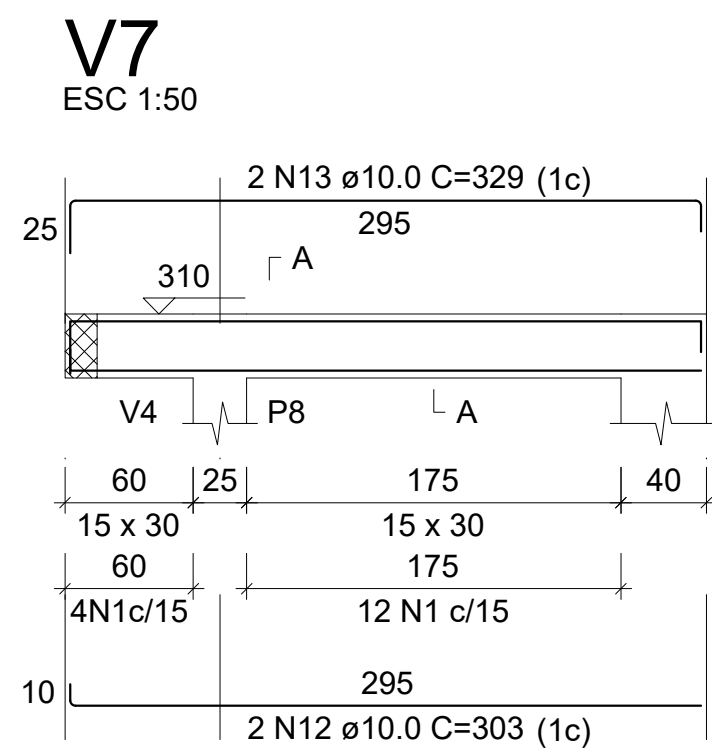
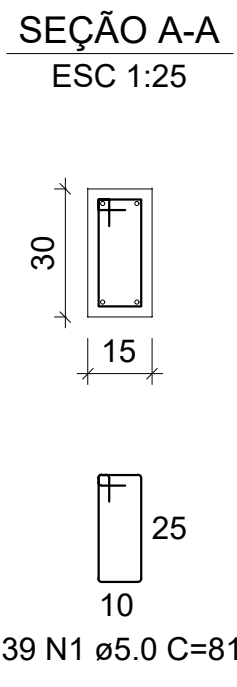
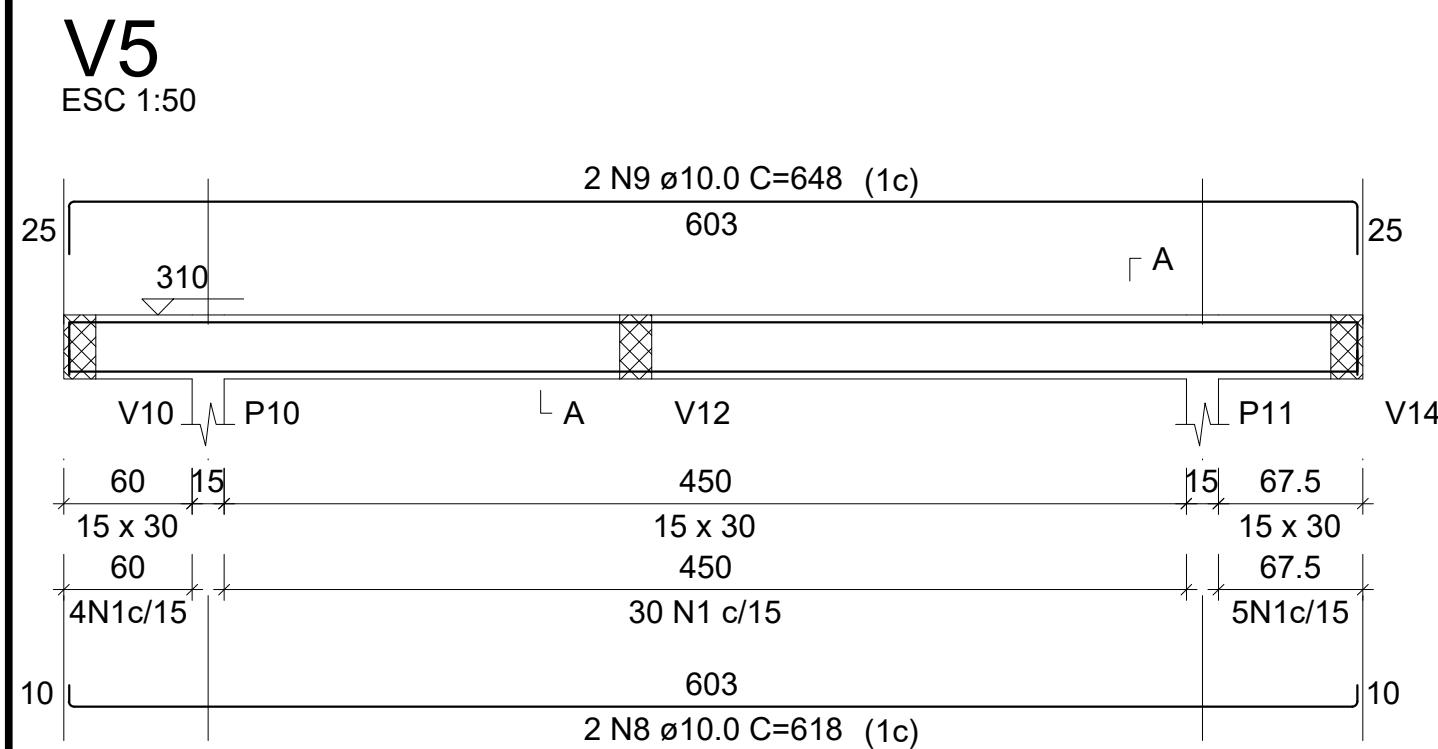
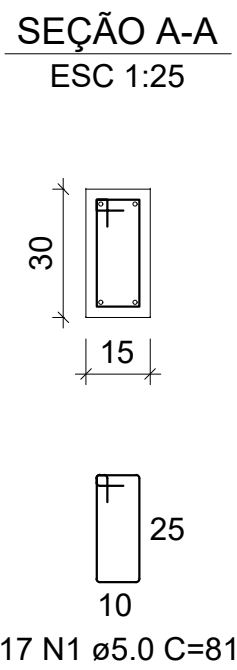
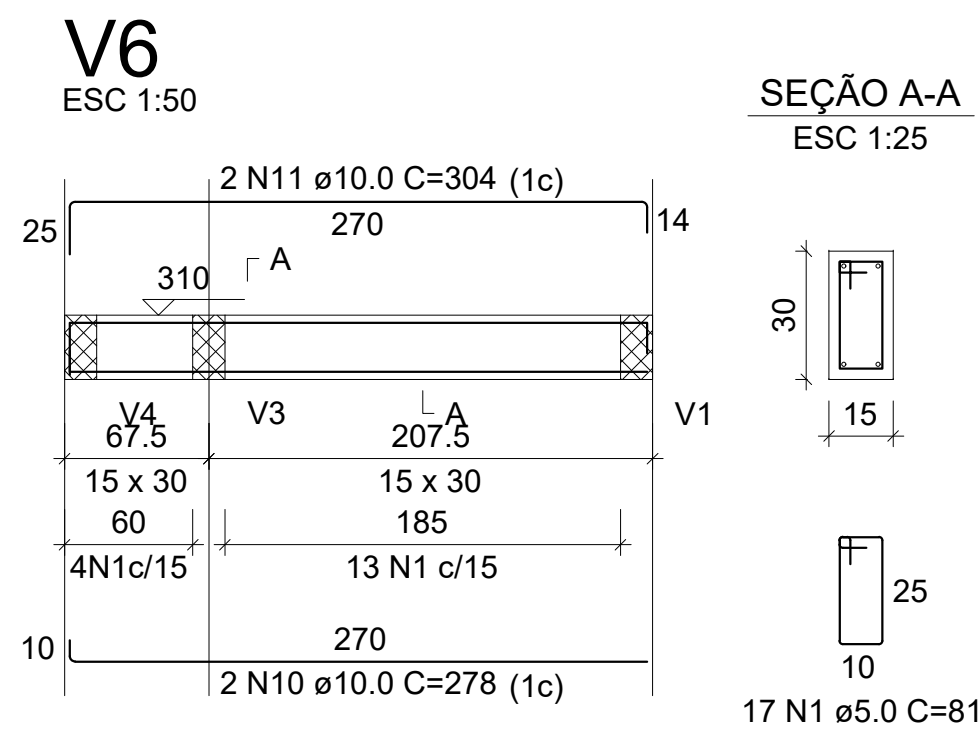
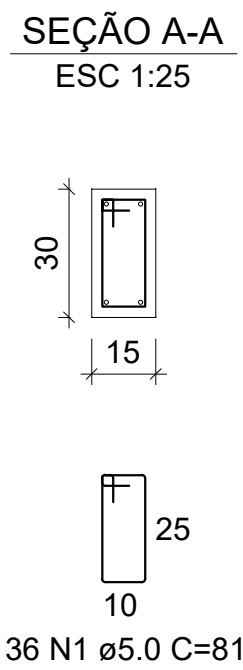
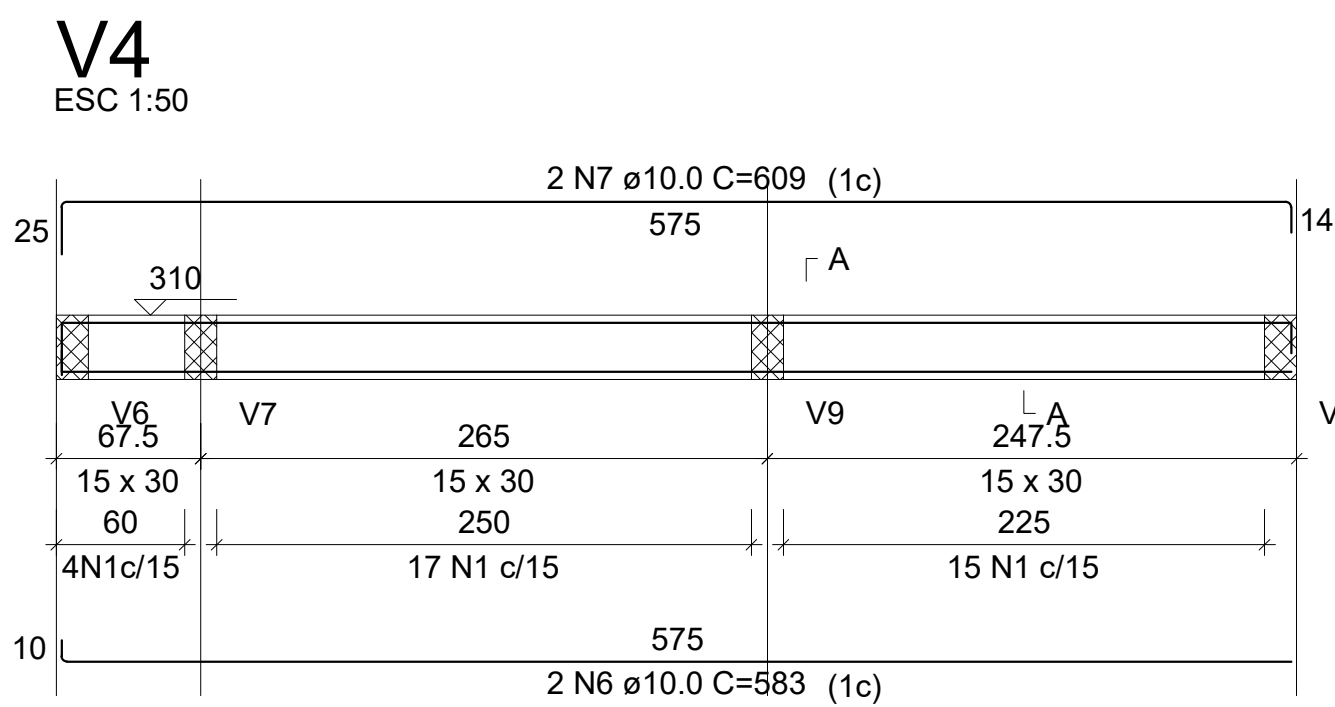
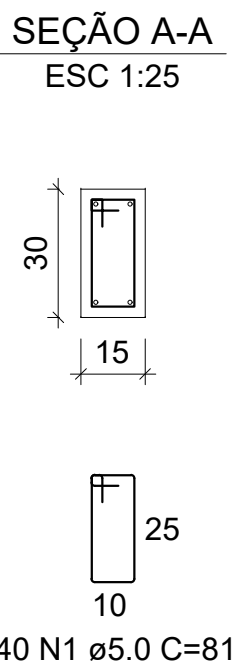
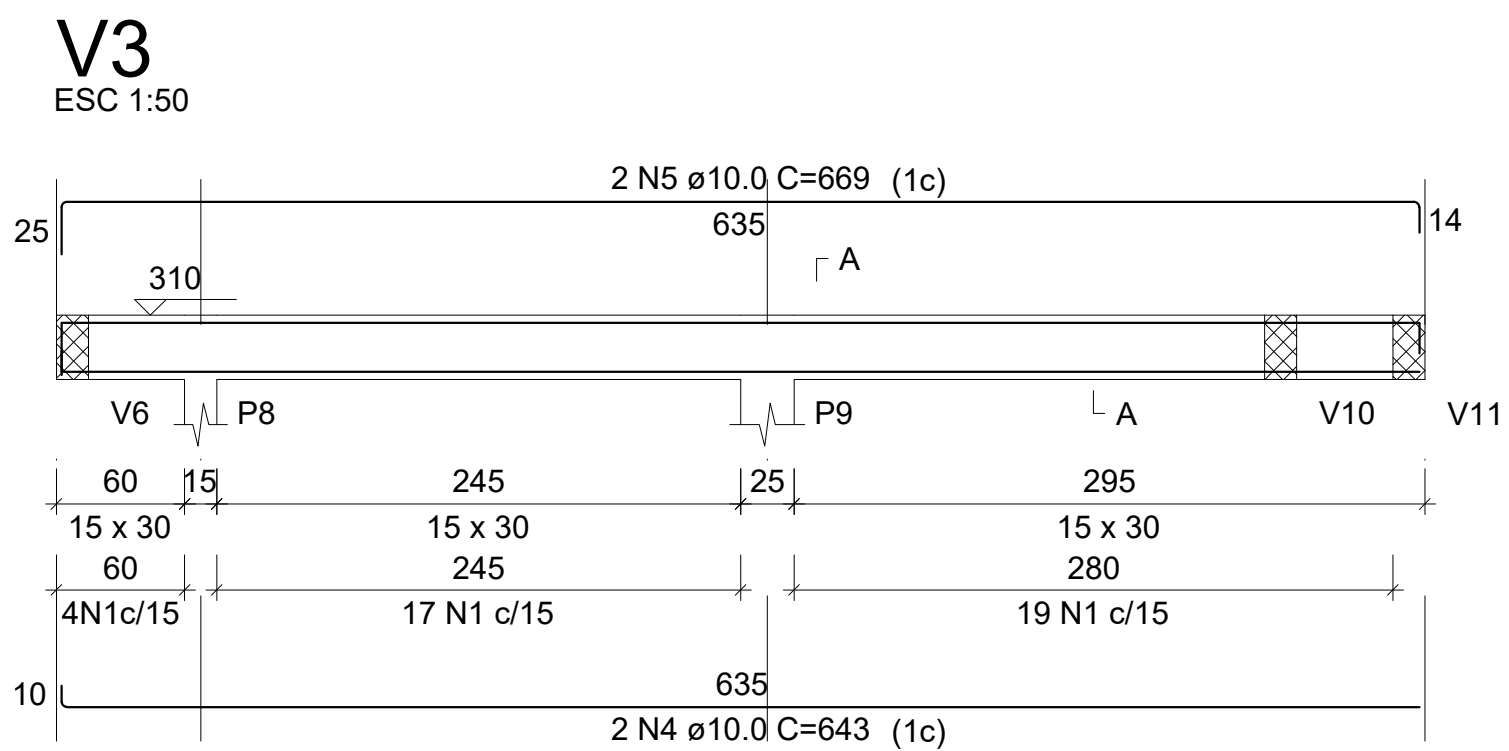
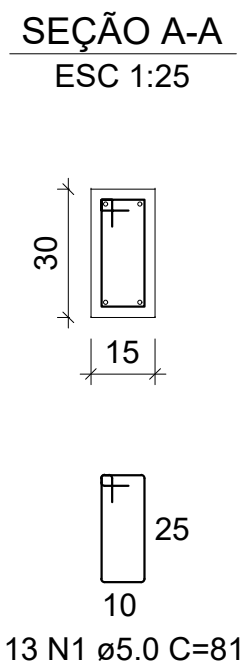
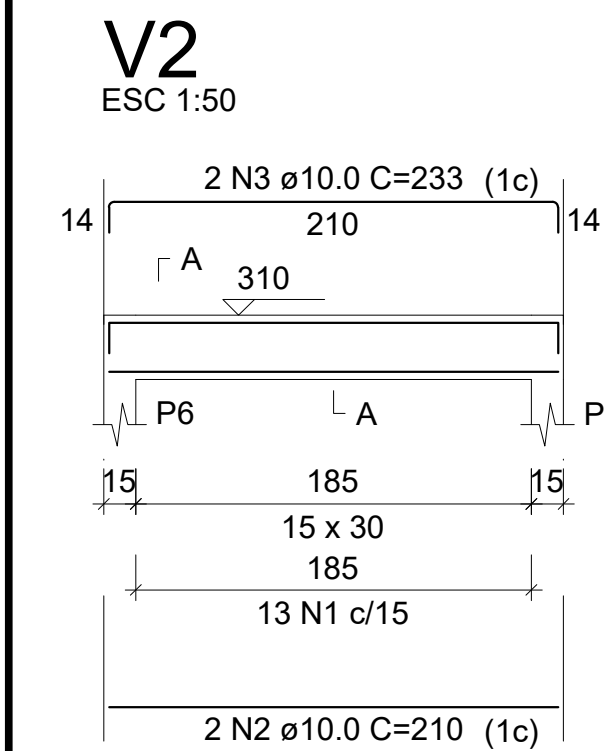


RELAÇÃO DO AÇO VIGAS DE COBERTURA

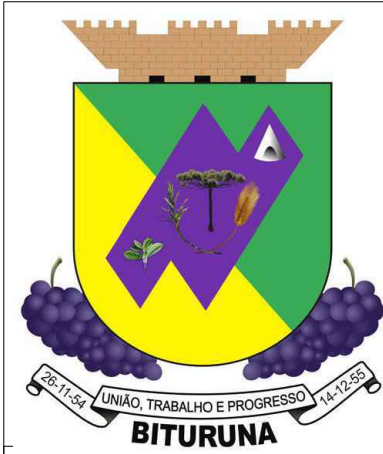
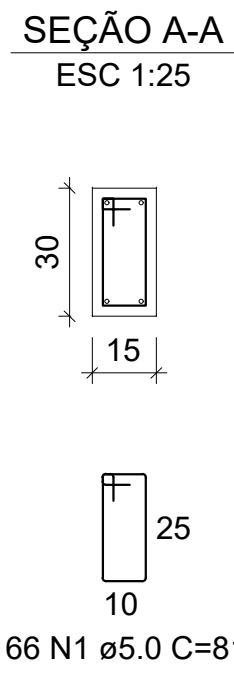
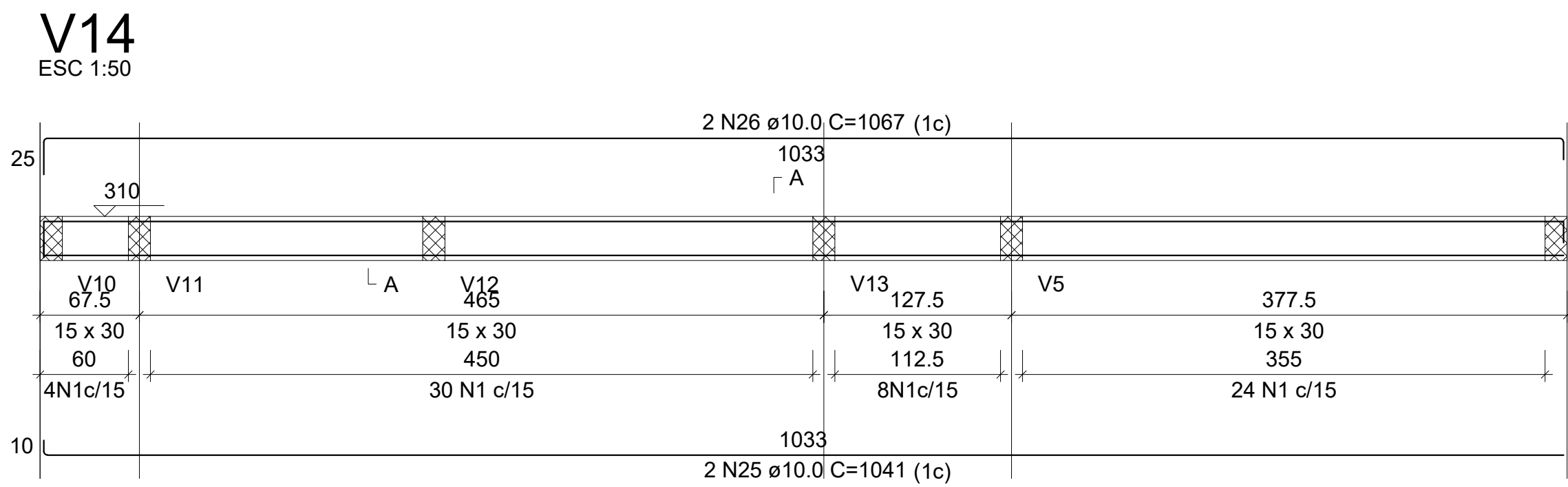
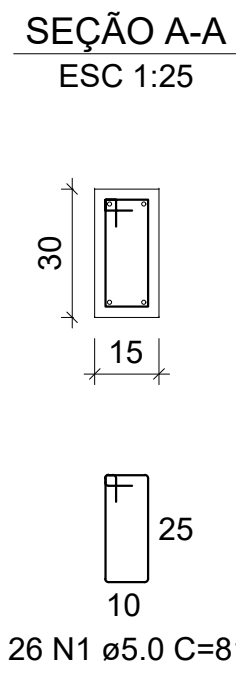
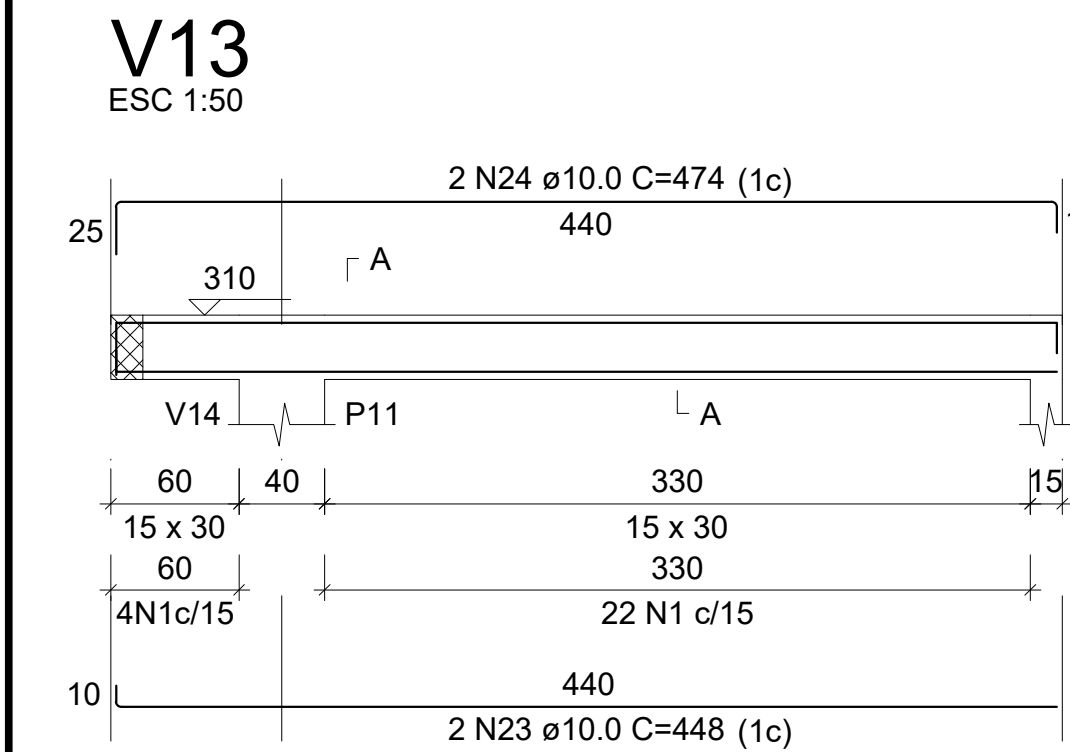
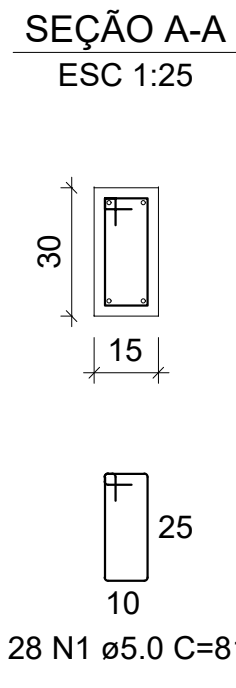
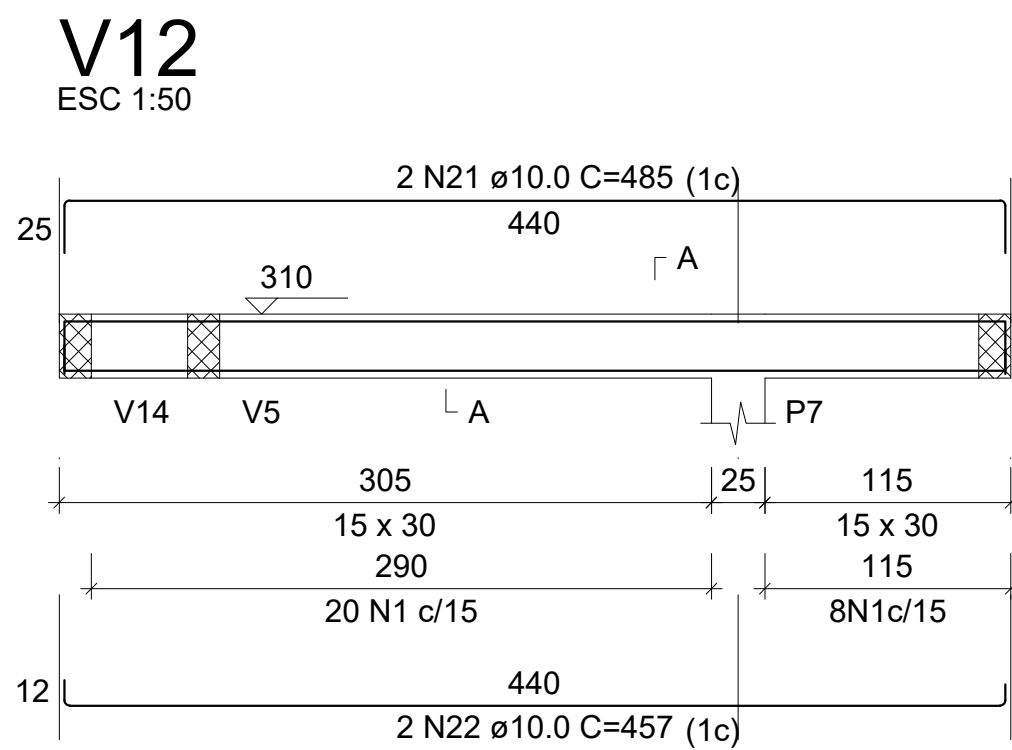
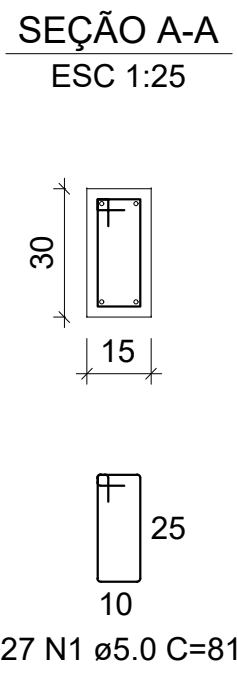
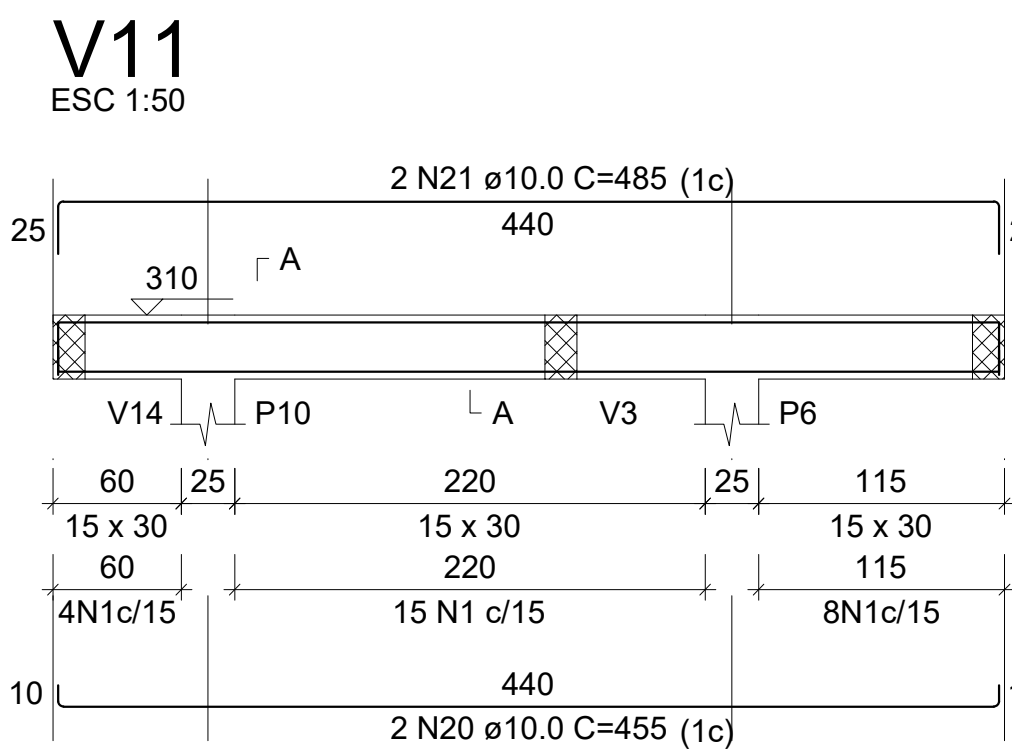
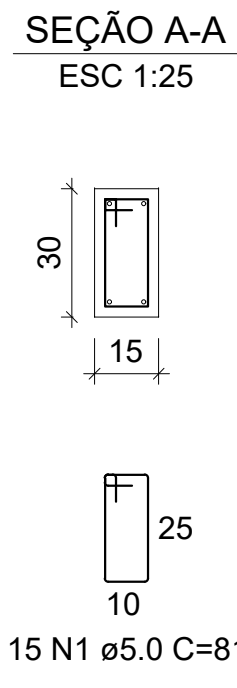
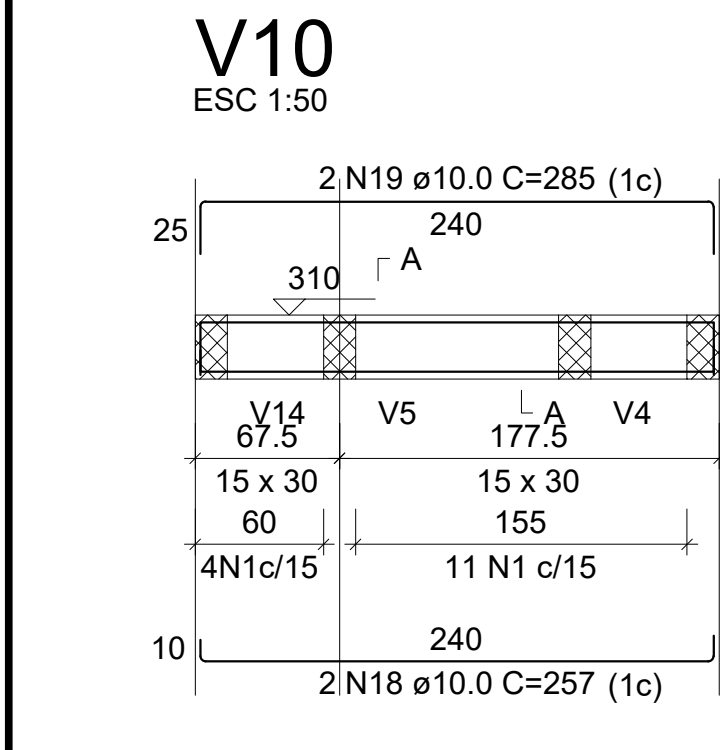
V2	V3	V4
V5	V6	V7
V8	V9	V10
V11	V12	V13
V14		

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60 CA50	1	5.0	354	81	28674
	2	10.0	2	210	420
	3	10.0	2	233	466
	4	10.0	2	643	1286
	5	10.0	2	669	1338
	6	10.0	2	583	1166
	7	10.0	2	609	1218
	8	10.0	2	618	1236
	9	10.0	2	648	1296
	10	10.0	2	278	556
	11	10.0	2	304	608
	12	10.0	2	303	606
	13	10.0	2	329	658
	14	10.0	2	220	440
	15	10.0	2	243	486
	16	10.0	2	285	570
	17	10.0	2	315	630
	18	10.0	2	257	514
	19	10.0	2	285	570
	20	10.0	2	455	910
	21	10.0	4	485	1940
	22	10.0	2	457	914
	23	10.0	2	448	896
	24	10.0	2	474	948
	25	10.0	2	1041	2082
	26	10.0	2	1067	2134

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	10.0	238.9	162
CA60	5.0	286.7	48.6
PESO TOTAL (kg)			
CA50	162		
CA60	48.6		

Volume de concreto (C-30) = 2.34 m³
Área de forma = 39.17 m²



Cidade: **Bituruna**
Estado: **Paraná**
Desenho: **Bruna**
Escala: **Indicada**
Data: **SETEMBRO/2025**

REFORMA ESCOLA SANTO ANTÔNIO

Projeto:

ESTRUTURAL

Referencia:

VIGAS DE COBERTURA Detalhamento e Quantitativo

Folha:

03
03

Responsável Técnico:

LUIZ RENATO FRIEDRICH DE RAMOS
Engº Civil CREA 168233/D - PR