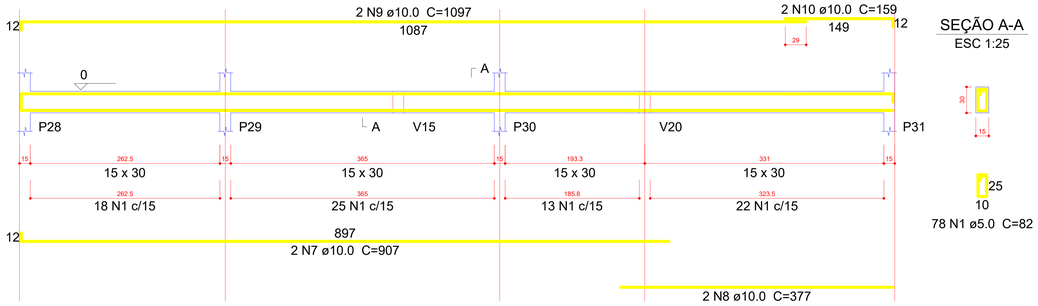
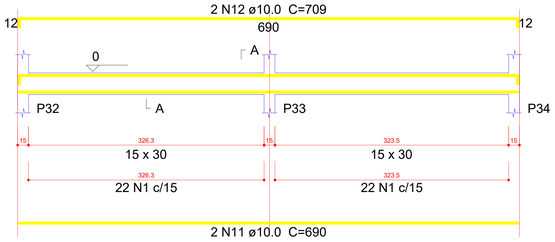
V10
ESC 1:30



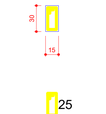
SEÇÃO A-A
ESC 1:25

78 N1 ø5.0 C=82

V11
ESC 1:30

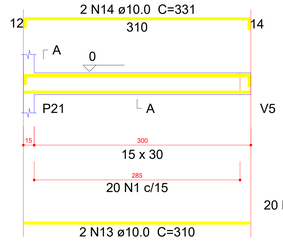


SEÇÃO A-A
ESC 1:25

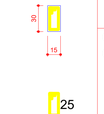


44 N1 ø5.0 C=82

V22
ESC 1:30



SEÇÃO A-A
ESC 1:25



20 N1 ø5.0 C=82

Relação do aço

V10	V11	V12
V13	V14	V16
V17	V18	V19
V21	V22	

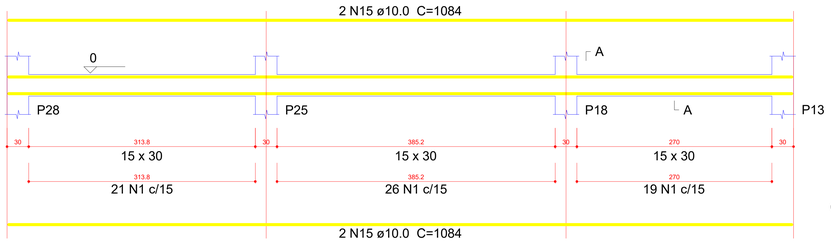
AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	509	82	41738
CA50	2	8.0	2	334	668
	3	8.0	2	241	482
	4	8.0	2	233	466
	5	8.0	2	239	478
	6	8.0	2	244	488
	7	10.0	2	907	1814
	8	10.0	2	377	754
	9	10.0	2	1097	2194
	10	10.0	2	159	318
	11	10.0	2	690	1380
	12	10.0	2	709	1418
	13	10.0	2	310	620
	14	10.0	2	331	662
	15	10.0	4	1084	4336
	16	10.0	2	1112	2224
	17	10.0	4	72	288
	18	10.0	2	330	660
	19	10.0	2	188	376
	20	10.0	4	354	1416
	21	10.0	4	364	1456
	22	10.0	2	440	880
	23	10.0	2	168	336
	24	10.0	2	585	1170
	25	10.0	2	594	1188
	26	10.0	2	859	1718
	27	10.0	2	559	1118
	28	10.0	2	490	980
	29	10.0	2	719	1438
	30	10.0	2	571	1142
	31	10.0	2	80	160
	32	10.0	2	268	536

Resumo do aço

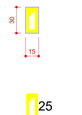
AÇO	DIAM (mm)	C.TOTAL (m)	QUANT + 10 % (Barras)
CA50	8.0	25.9	3
	10.0	305.9	29
CA60	5.0	417.4	39
PESO TOTAL (kg)			
CA50	218.6		
CA60	70.8		

Volume de concreto (C-30) = 3.68 m³
Área de forma = 61.27 m²

V12
ESC 1:30

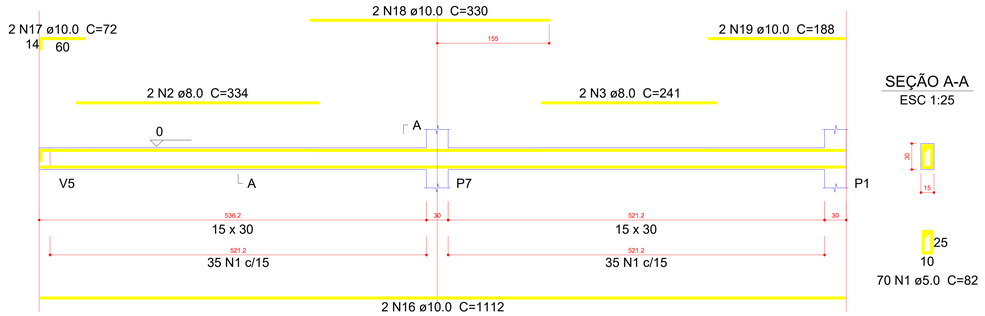


SEÇÃO A-A
ESC 1:25



66 N1 ø5.0 C=82

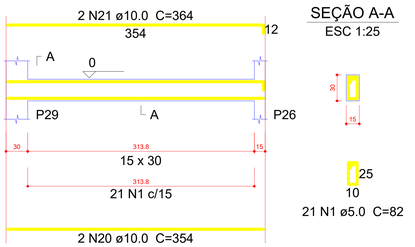
V13
ESC 1:30



SEÇÃO A-A
ESC 1:25

70 N1 ø5.0 C=82

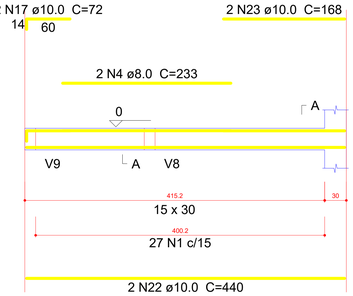
V14
ESC 1:30



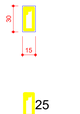
SEÇÃO A-A
ESC 1:25

21 N1 ø5.0 C=82

V16
ESC 1:30

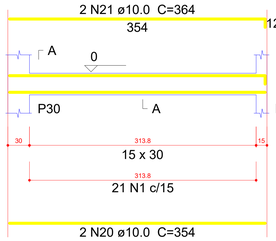


SEÇÃO A-A
ESC 1:25

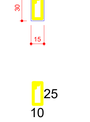


27 N1 ø5.0 C=82

V18
ESC 1:30

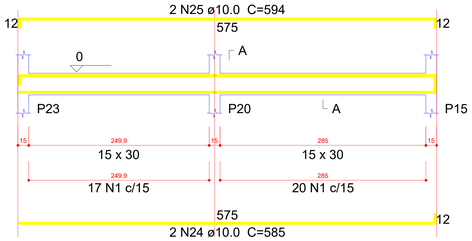


SEÇÃO A-A
ESC 1:25

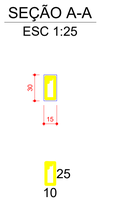


21 N1 ø5.0 C=82

V19
ESC 1:30

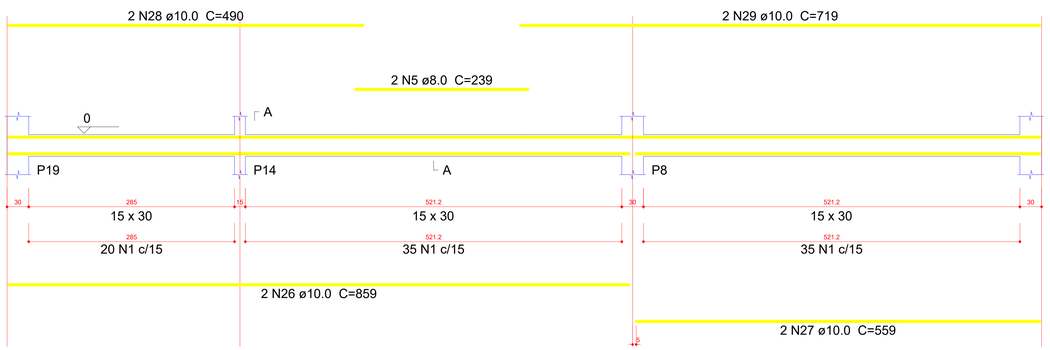


SEÇÃO A-A
ESC 1:25

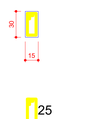


37 N1 ø5.0 C=82

V17
ESC 1:30

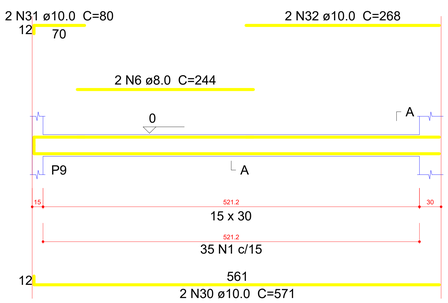


SEÇÃO A-A
ESC 1:25

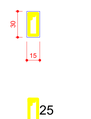


90 N1 ø5.0 C=82

V21
ESC 1:30



SEÇÃO A-A
ESC 1:25



35 N1 ø5.0 C=82

PROJETO ESTRUTURAL

LOCAL: Rua Clemildes Pereira Aroeira - Idelsa Borgo - Montanha - ES	OBRA: CONSTRUÇÃO DE ABRIGO INSTITUCIONAL PARA IDOSO	ESCALA: INDICADA
CONTEÚDO: PROJETO ESTRUTURAL	ÁREA: ÁREA CONSTRUÍDA: 304,08 m²	DATA: ABR/2026
USO: COMERCIAL / REVISÃO: RV00		FOLHA: 04/12
PROPRIETÁRIO: FUNDO MUNICIPAL DE ASSISTÊNCIA SOCIAL DE MONTANHA - ES CNPJ: 14.829.853/0001-45	RESPONSÁVEL TÉCNICO: DAVI GRASSI:13352797765 DAVI GRASSI ENGENHEIRO CIVIL - CREA-ES: 0048103/D	APICE