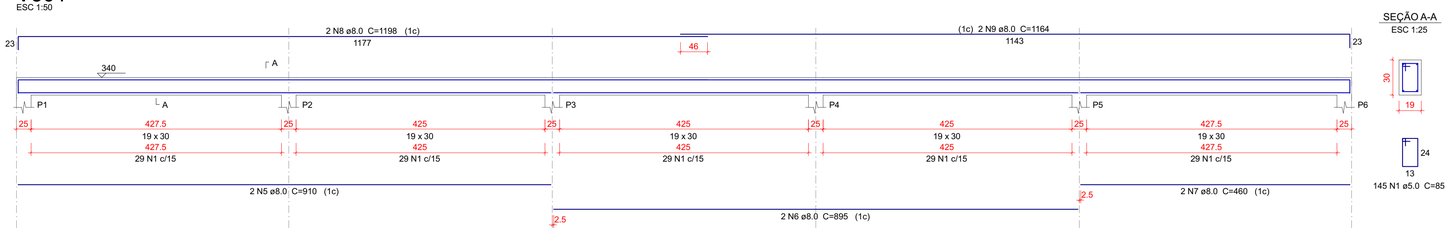
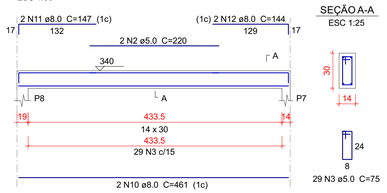
V301
ESC 1:50



SEÇÃO A-A
ESC 1:25

145 N1 ø5.0 C=85

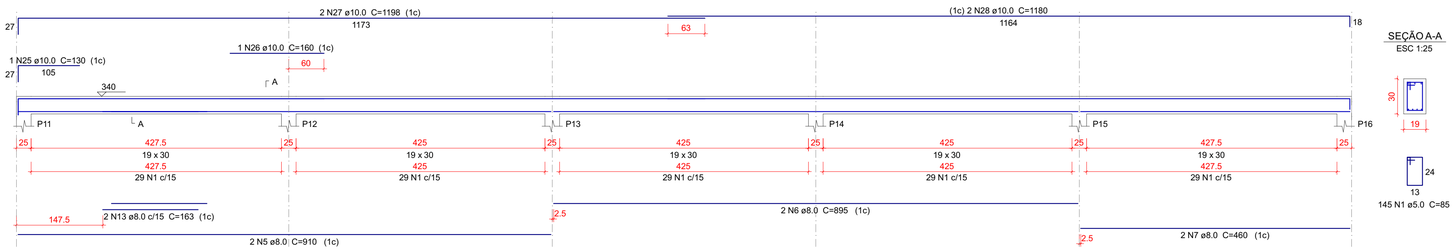
V302
ESC 1:50



SEÇÃO A-A
ESC 1:25

29 N3 ø5.0 C=75

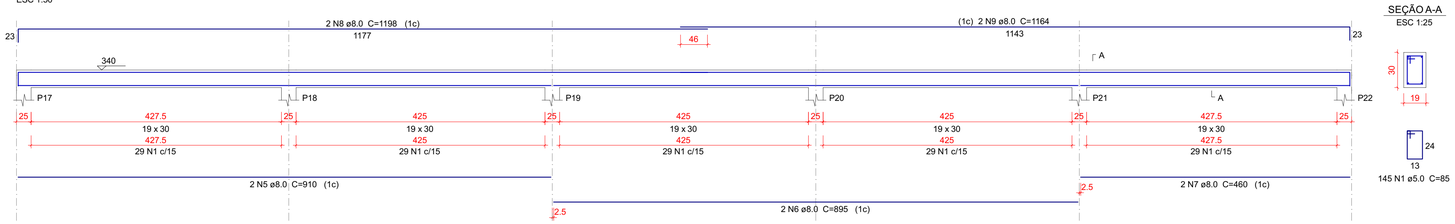
V303
ESC 1:50



SEÇÃO A-A
ESC 1:25

145 N1 ø5.0 C=85

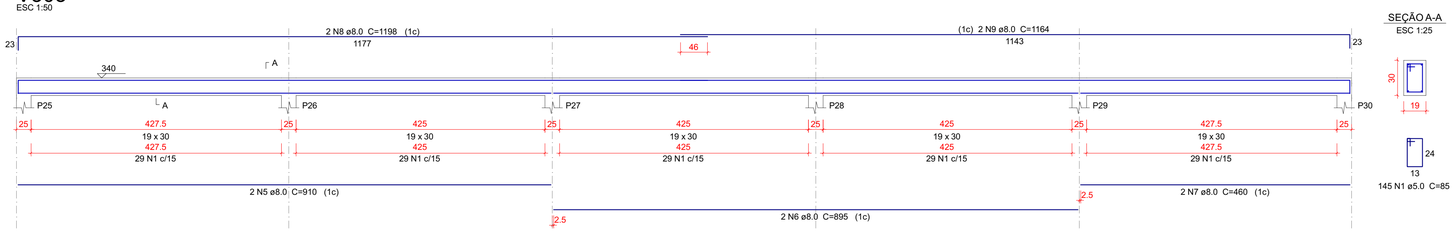
V304
ESC 1:50



SEÇÃO A-A
ESC 1:25

145 N1 ø5.0 C=85

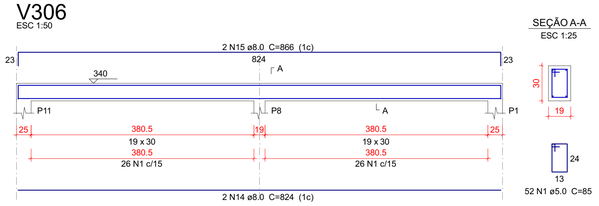
V305
ESC 1:50



SEÇÃO A-A
ESC 1:25

145 N1 ø5.0 C=85

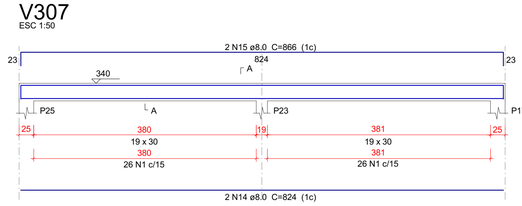
V306
ESC 1:50



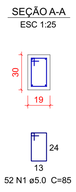
SEÇÃO A-A
ESC 1:25

52 N1 ø5.0 C=85

V307
ESC 1:50

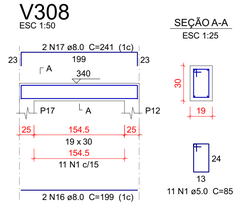


SEÇÃO A-A
ESC 1:25



52 N1 ø5.0 C=85

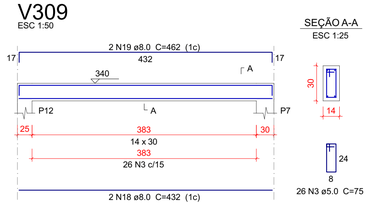
V308
ESC 1:50



SEÇÃO A-A
ESC 1:25

11 N1 ø5.0 C=85

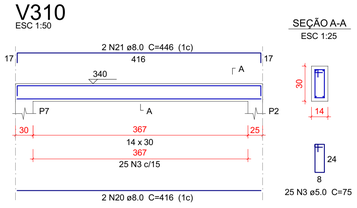
V309
ESC 1:50



SEÇÃO A-A
ESC 1:25

26 N3 ø5.0 C=75

V310
ESC 1:50

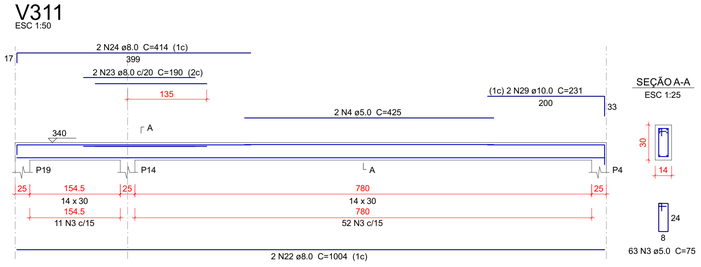


SEÇÃO A-A
ESC 1:25

25 N3 ø5.0 C=75

2 N20 ø8.0 C=416 (1c)

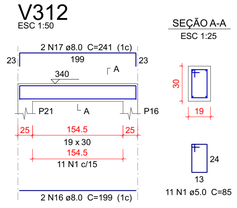
V311
ESC 1:50



SEÇÃO A-A
ESC 1:25

63 N3 ø5.0 C=75

V312
ESC 1:50



SEÇÃO A-A
ESC 1:25

11 N1 ø5.0 C=85

2 N16 ø8.0 C=199 (1c)

Relação do aço

V301	V302	V303
V304	V305	V306
V307	V308	V309
V310	V311	V312

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	706	85	60010
	2	5.0	2	220	440
	3	5.0	143	75	10725
	4	5.0	2	425	850
CA50	5	8.0	8	910	7280
	6	8.0	8	895	7160
	7	8.0	8	460	3680
	8	8.0	6	1198	7188
	9	8.0	6	1164	6984
	10	8.0	2	461	922
	11	8.0	2	147	294
	12	8.0	2	144	288
	13	8.0	2	163	326
	14	8.0	4	824	3296
	15	8.0	4	866	3464
	16	8.0	4	199	796
	17	8.0	4	241	964
	18	8.0	2	432	864
	19	8.0	2	462	924
	20	8.0	2	416	832
	21	8.0	2	446	892
	22	8.0	2	1004	2008
	23	8.0	2	190	380
	24	8.0	2	414	828
	25	10.0	1	130	130
	26	10.0	1	160	160
	27	10.0	2	1198	2396
	28	10.0	2	1180	2360
	29	10.0	2	231	462

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	8.0	493.7	194.8
	10.0	55.1	34
CA60	5.0	720.3	111

PESO TOTAL (kg)	
CA50	228.8
CA60	111

Volume de concreto (C-30) = 6.81 m³
Área de forma = 97.75 m²

PROJETO ESTRUTURAL

EM CASO DE DÚVIDAS CONSULTAR A DIVISÃO DE PROJETOS F. (41) 3888-4850

OBRA:
Bloco Multiuso - Campus União da Vitória

AUTOR(ES) DO PROJETO:
Eng. Civil Tiago Radaskievicz
PR 132.448/D

PROPRIETÁRIO:
INSTITUTO FEDERAL DO PARANÁ - CNPJ: 10.652.179/0001-15

RESPONSÁVEL EXECUÇÃO:
A LICITAR

REFERÊNCIA:
Vigas nível 340

DATA: 09/10/2026
ESCALA: INDICADA
DESENHO: Rada
ARQUIVO:
PRANCHA: 7 10
PLOTAGEM: 09/10/2026

DIRETORIA DE INFRAESTRUTURA - DI