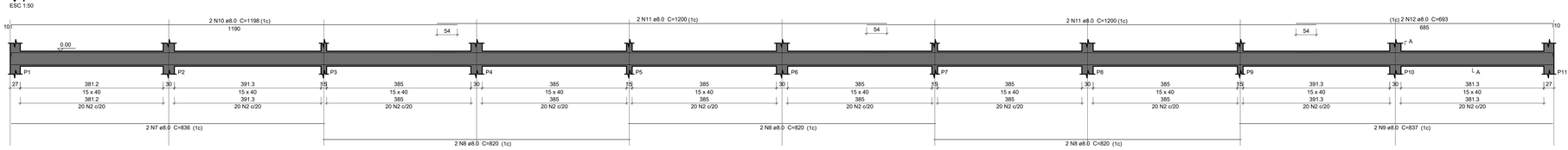
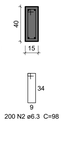
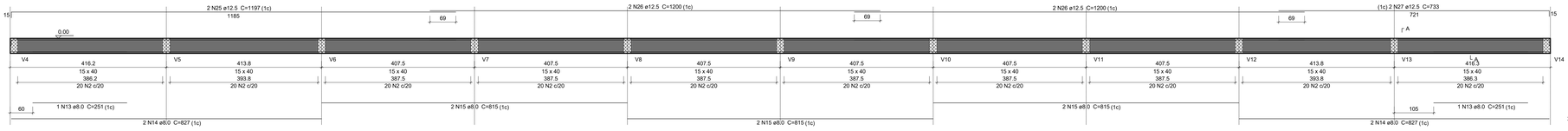
V1
ESC 1:50



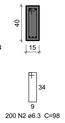
SEÇÃO A-A
ESC 1:25



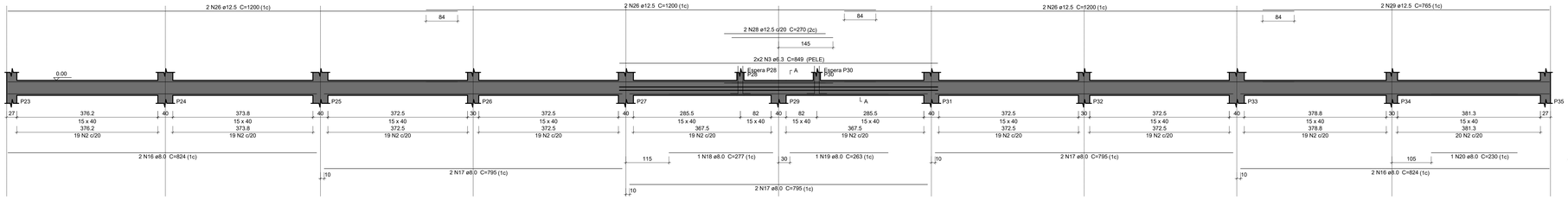
V2
ESC 1:50



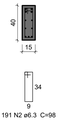
SEÇÃO A-A
ESC 1:25



V3
ESC 1:50



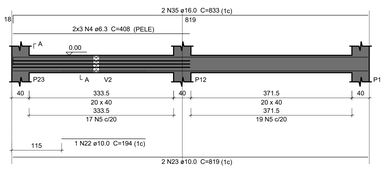
SEÇÃO A-A
ESC 1:25



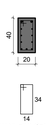
ESPERA P28
ESC 1:25

ESPERA P30
ESC 1:25

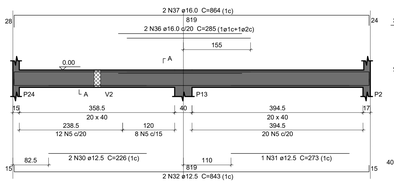
V4
ESC 1:50



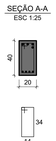
SEÇÃO A-A
ESC 1:25



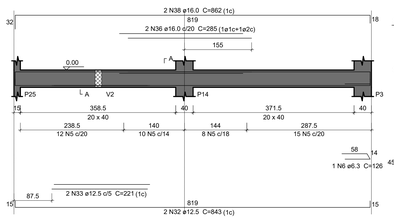
V5
ESC 1:50



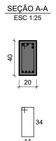
SEÇÃO A-A
ESC 1:25



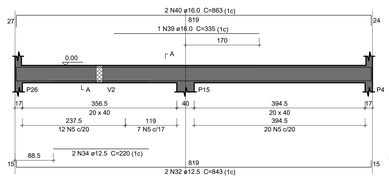
V6
ESC 1:50



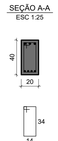
SEÇÃO A-A
ESC 1:25



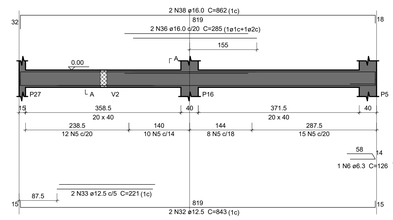
V7
ESC 1:50



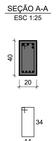
SEÇÃO A-A
ESC 1:25



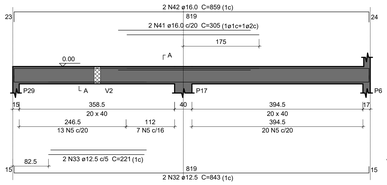
V8
ESC 1:50



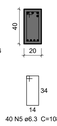
SEÇÃO A-A
ESC 1:25



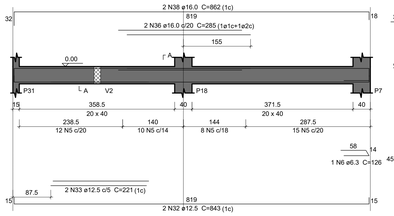
V9
ESC 1:50



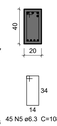
SEÇÃO A-A
ESC 1:25



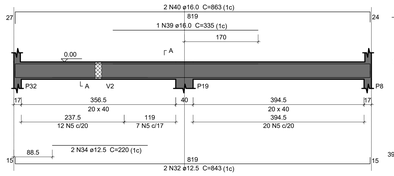
V10
ESC 1:50



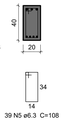
SEÇÃO A-A
ESC 1:25



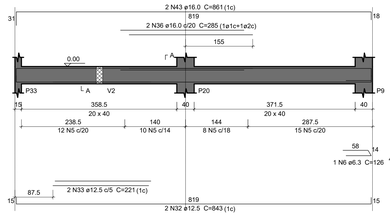
V11
ESC 1:50



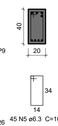
SEÇÃO A-A
ESC 1:25



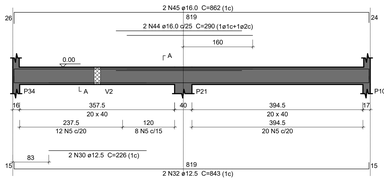
V12
ESC 1:50



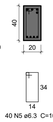
SEÇÃO A-A
ESC 1:25



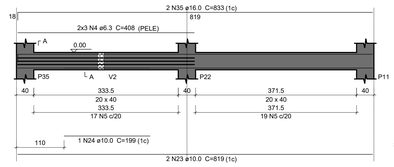
V13
ESC 1:50



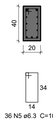
SEÇÃO A-A
ESC 1:25



V14
ESC 1:50



SEÇÃO A-A
ESC 1:25



Relação do aço

V1	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	1	5.0	8	64	512
CA50	2	6.3	591	98	57918
	3	6.3	4	849	3396
	4	6.3	12	408	4896
	5	6.3	450	108	48600
	6	6.3	4	126	504
	7	8.0	2	836	1672
	8	8.0	6	820	4920
	9	8.0	2	837	1674
	10	8.0	2	1198	2396
	11	8.0	4	1200	4800
	12	8.0	2	693	1386
	13	8.0	2	251	502
	14	8.0	4	827	3308
	15	8.0	6	815	4890
	16	8.0	4	824	3296
	17	8.0	6	795	4770
	18	8.0	1	277	277
	19	8.0	1	263	263
	20	8.0	1	230	230
	21	10.0	8	91	728
	22	10.0	1	194	194
	23	10.0	4	819	3276
	24	10.0	1	199	199
	25	12.5	2	1197	2394
	26	12.5	10	1200	12000
	27	12.5	2	733	1466
	28	12.5	2	270	540
	29	12.5	2	765	1530
	30	12.5	4	226	904
	31	12.5	1	273	273
	32	12.5	18	843	15174
	33	12.5	10	221	2210
	34	12.5	4	220	880
	35	16.0	4	833	3332
	36	16.0	10	285	2850
	37	16.0	2	864	1728
	38	16.0	6	862	5172
	39	16.0	2	335	670
	40	16.0	4	863	3452
	41	16.0	2	305	610
	42	16.0	2	859	1718
	43	16.0	2	861	1722
	44	16.0	2	290	580
	45	16.0	2	862	1724

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO (kg)
CA50	6.3	1153.2	282.2
	8.0	343.9	135.7
	10.0	44	27.1
	12.5	373.8	360
	16.0	233.6	371.8
CA60	5.0	5.2	0.8
PESO TOTAL (kg)			
CA50	1176.8		
CA60	0.8		

Volume de concreto (C-30) = 13.73 m³
Área de forma = 208.01 m²

REVISÃO	DESCRIÇÃO:	RESPONSÁVEL:	APROVAÇÃO:	DATA:

INSTITUTO FEDERAL DE EDUCAÇÃO, CIÊNCIA E TECNOLOGIA
RIO GRANDE DO SUL

CAMPUS ROLANTE
RS 239
ESTRADA TAQUARA ROLANTE
ROLANTE/RS

ASSUNTO: PROJETO ESTRUTURAL

OBRA: BLOCO SALAS DE AULA
CONTEÚDO: VIGAS TÉRREO

PROJETO: MICHEL LIMA LEVIEN, ENG. CIVIL - CREA 202818 RS
EXECUÇÃO:
PROPRIETÁRIO: INSTITUTO FEDERAL DO RIO GRANDE DO SUL - dpo@rs.edu.br

ARQUIVO: ESTRUTURAL BLOCO SALAS DE AULA ROLANTE
ESCALA: INDICADA
ÁREA CONSTRUÍDA: 339.82 m²
DESENHO: MICHEL
PRANCHA: 04/11
DATA: 14/07/2023

LIGAR ESPESSURAS ABAIXO EM PRETO

Cor	Espes. (mm)	Cor	Espes. (mm)
8	0.05	11	0.25
7	0.07	12	0.30
6	0.10	13	0.40
5	0.12	14	0.50
4	0.15	15	0.60
3	0.20	16	0.70
2	0.25	17	0.80
1	0.30	18	0.90

LIGAR ESPESSURAS ABAIXO EM CORES

19	0.05	27
20	0.07	28
21	0.10	29
22	0.12	30
23	0.15	31
24	0.20	32
25	0.25	33
26	0.30	34

LIGAR ESPESSURAS ABAIXO EM CINZA

35	0.05	43
36	0.07	44
37	0.10	45
38	0.12	46
39	0.15	47
40	0.20	48
41	0.25	49
42	0.30	50

PLOTAR: 1/1

FORMATO A0