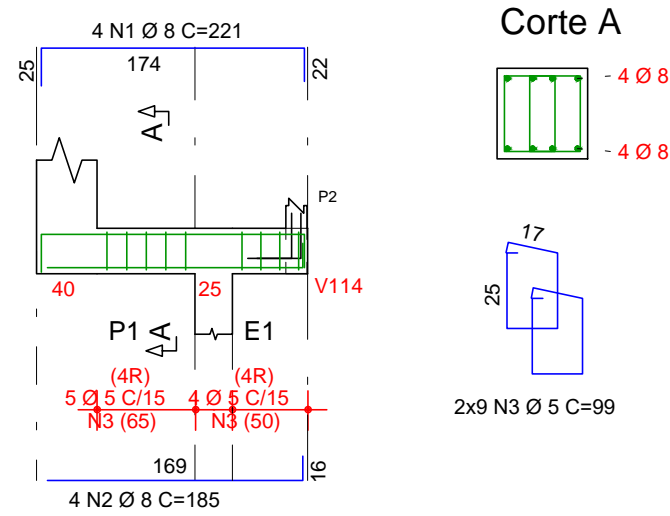
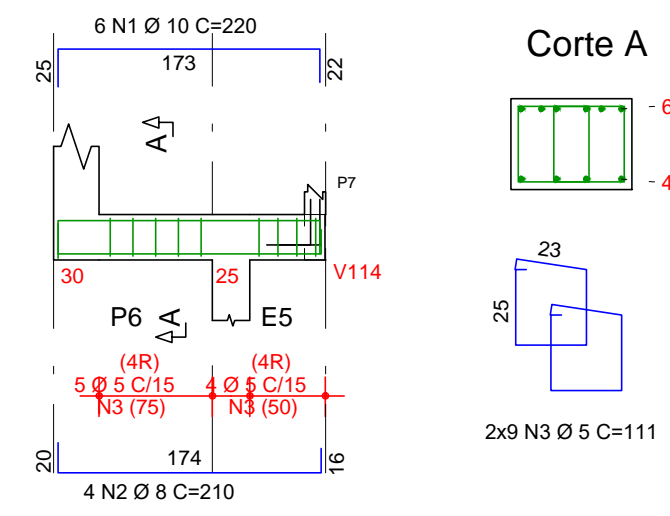


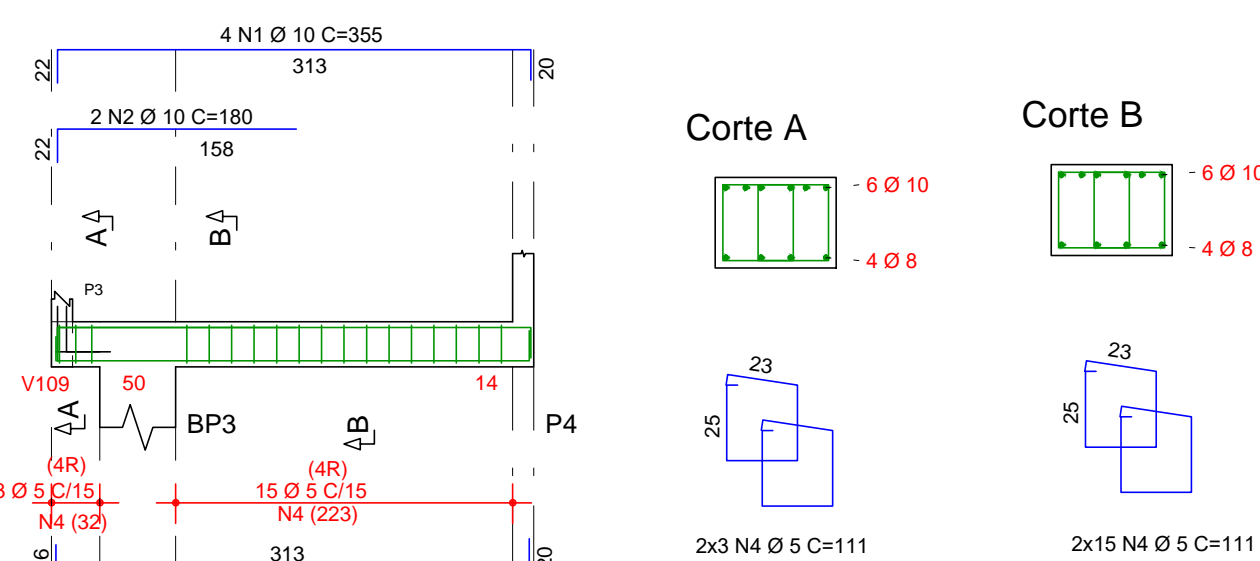
V101 30/30



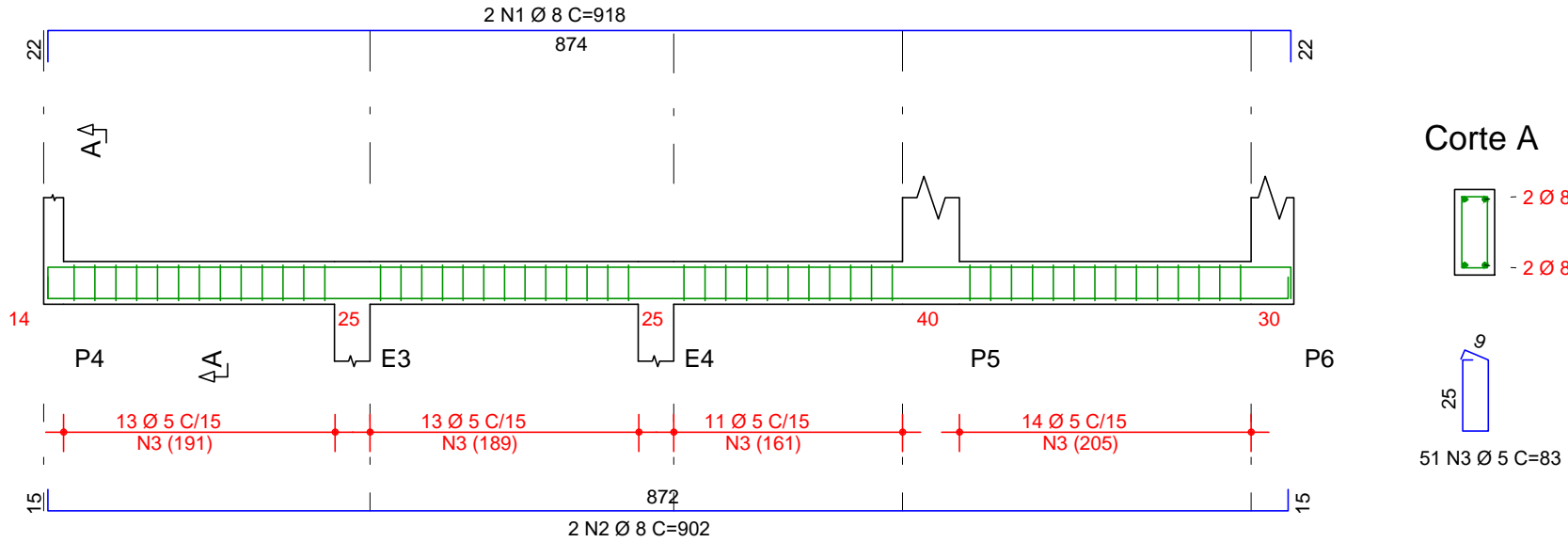
V102 40/30



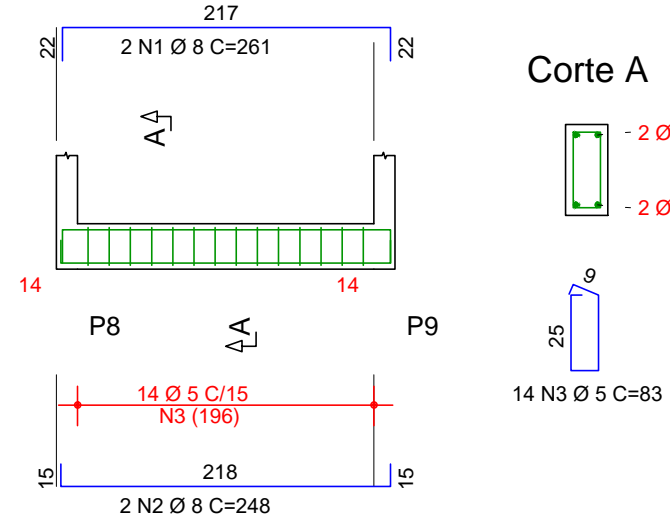
V103 40/30



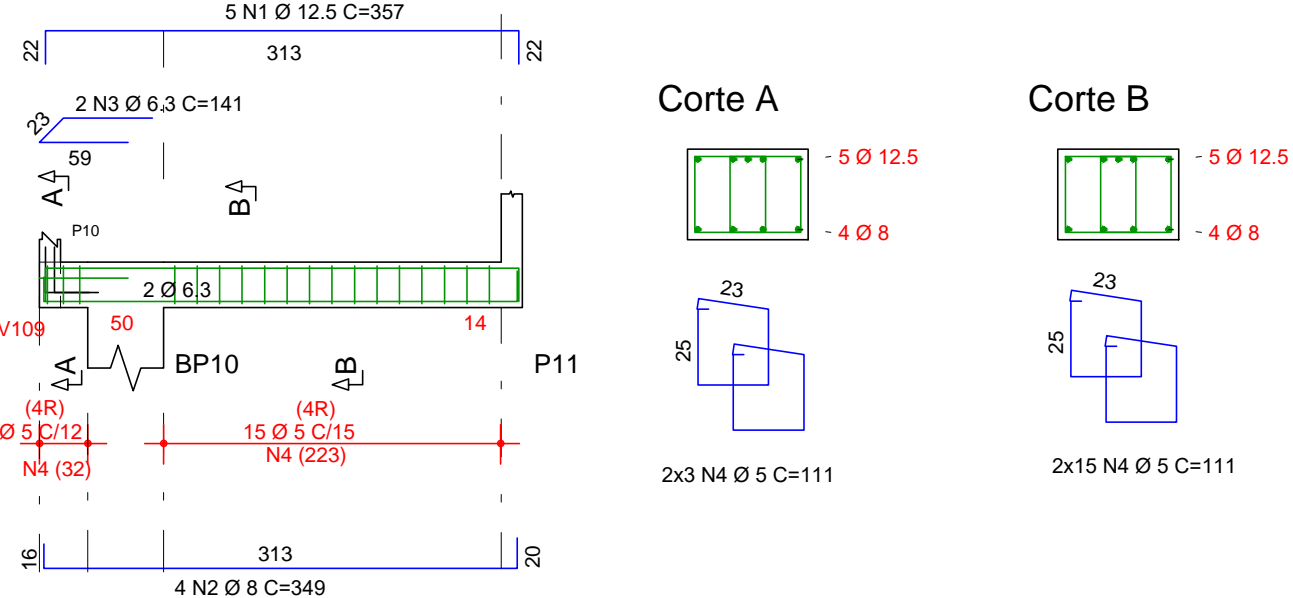
V104 14/30



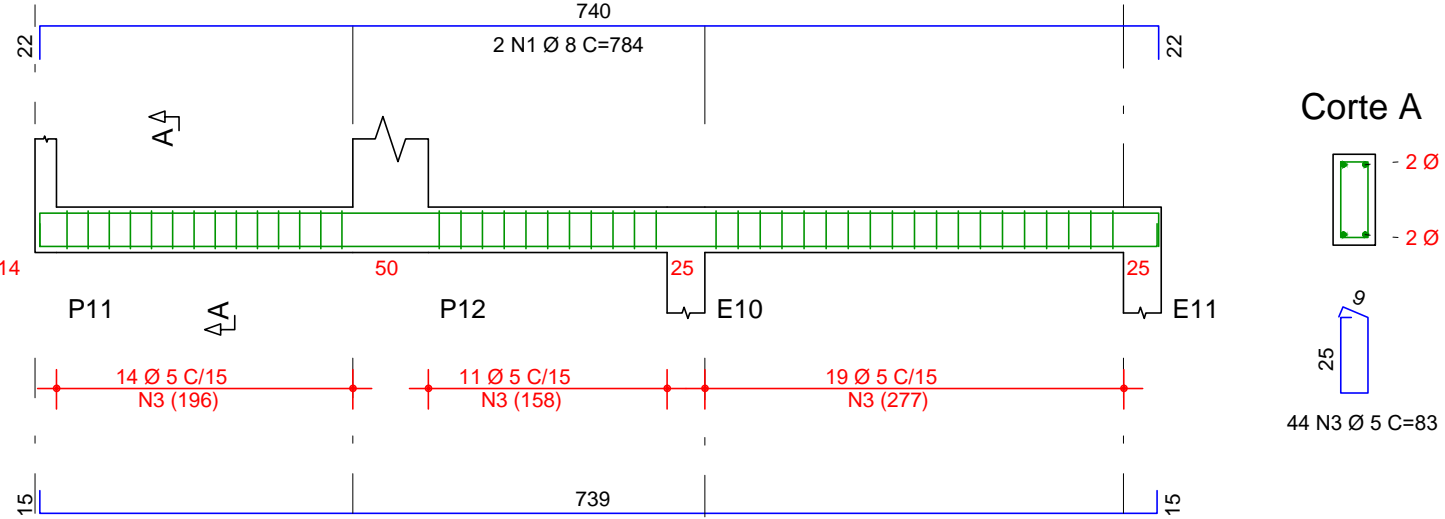
V105 14/30



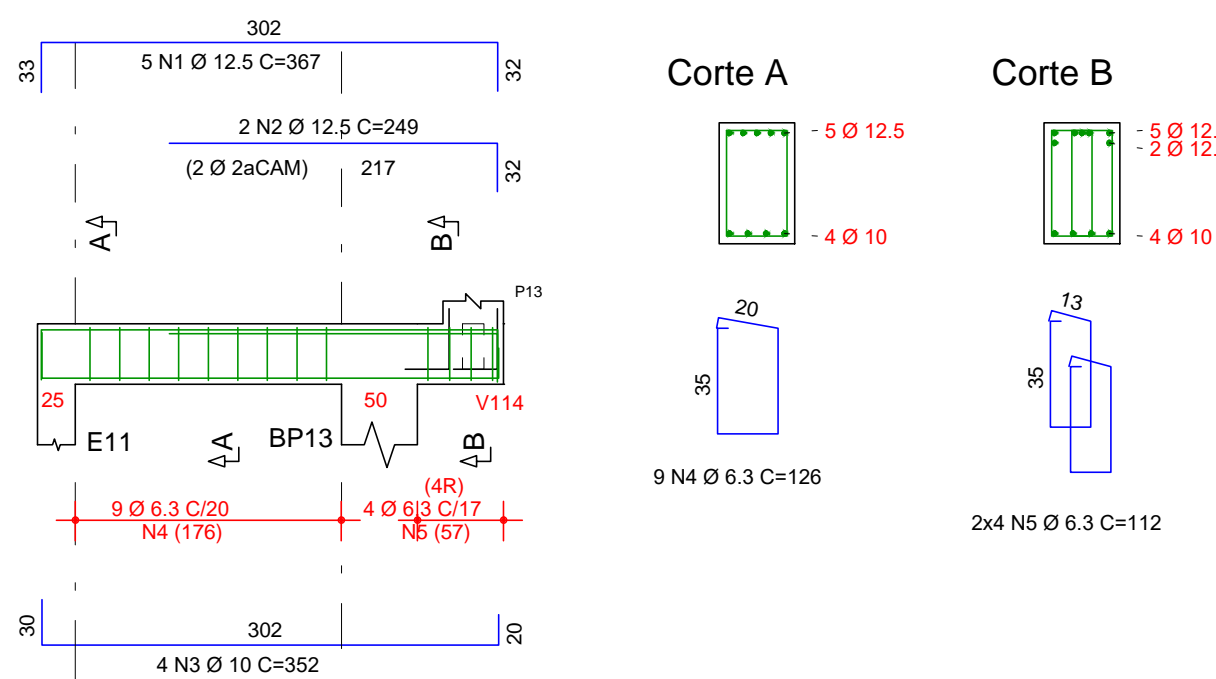
V106 40/30



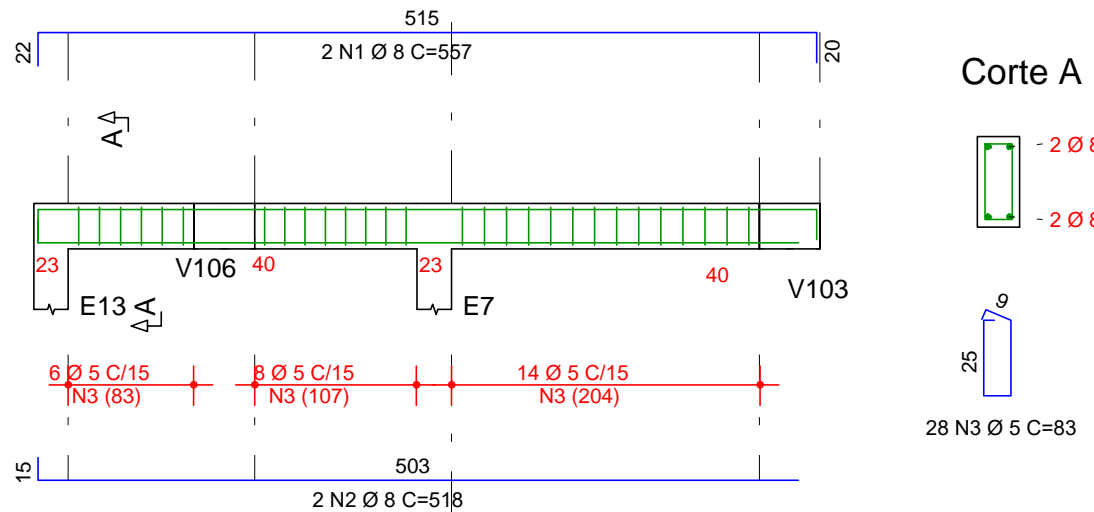
V107 14/30



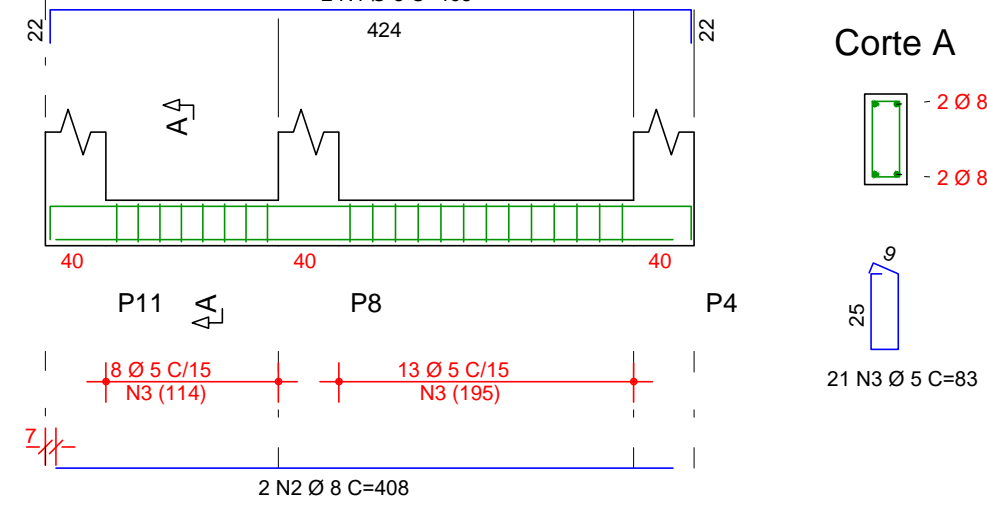
V108 25/40



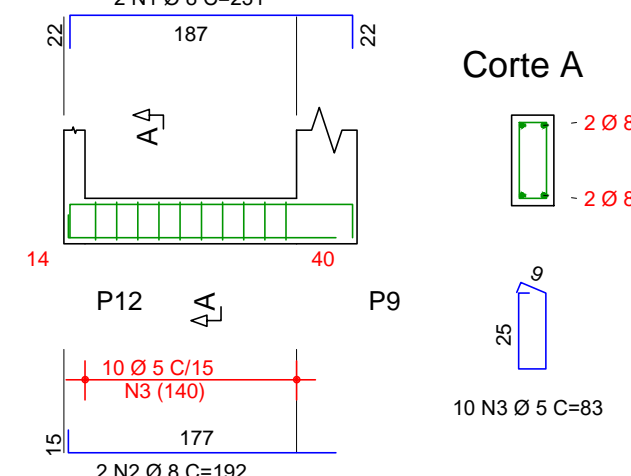
V109 14/30



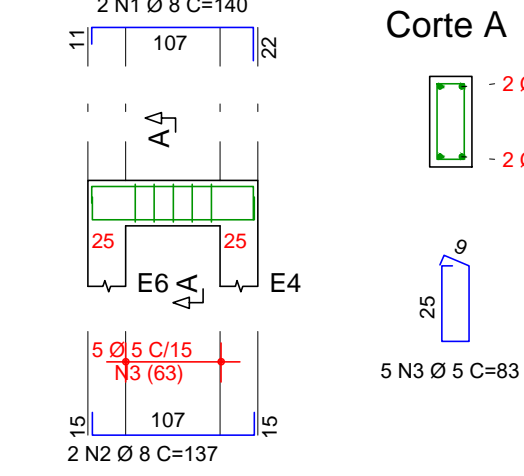
V110 14/30



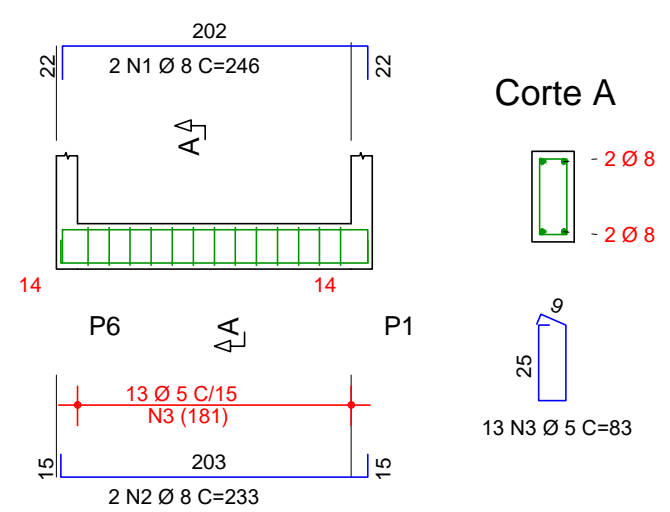
V111 14/30



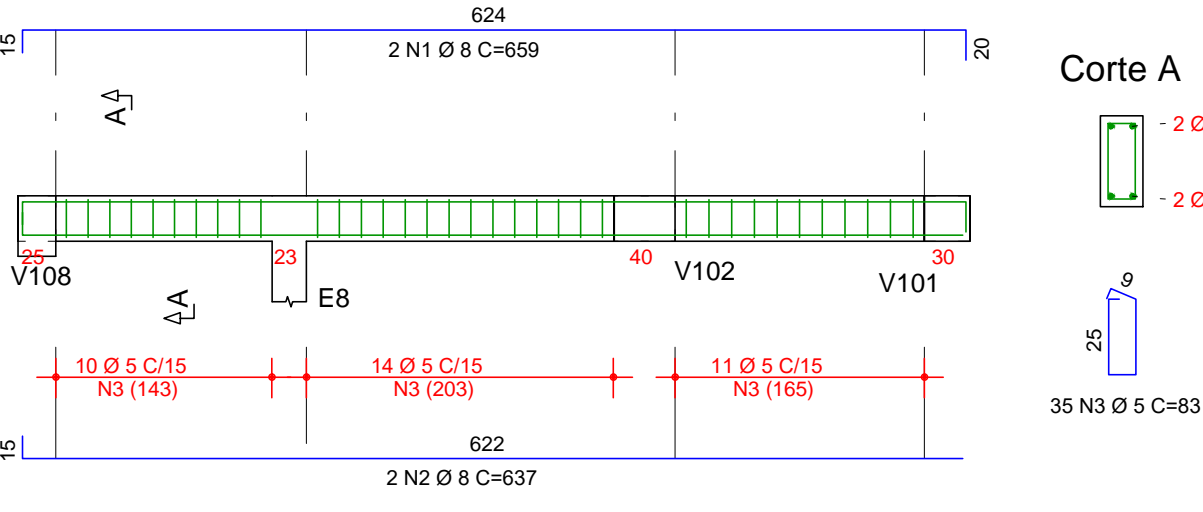
V112 14/30



V113 14/30



V114 14/30

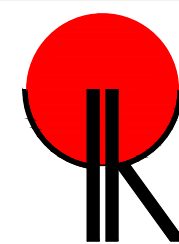


AÇO	POS	BIT (mm)	QUANT	COMPRIMENTO	
				UNIT (cm)	TOTAL (cm)
V101	50	1	8	4	221
	50	2	8	4	185
	60	3	5	18	99
V102	50	1	10	6	220
	50	2	8	4	210
	60	3	5	18	111
V103	50	1	10	4	355
	50	2	8	4	180
	60	3	5	36	111
V104	50	1	8	2	918
	50	2	8	2	902
	60	3	5	51	83
V105	50	1	8	2	261
	50	2	8	2	248
	60	3	5	14	83
V106	50	1	12.5	5	357
	50	2	8	4	349
	60	3	6.3	2	141
V107	50	1	8	2	784
	50	2	8	2	769
	60	3	5	44	83
V108	50	1	12.5	5	367
	50	2	12.5	2	249
	60	3	10	4	352
V109	50	1	8	2	557
	50	2	8	2	518
	60	3	5	28	83
V110	50	1	8	2	468
	50	2	8	2	408
	60	3	5	21	83
V111	50	1	8	2	231
	50	2	8	2	192
	60	3	5	10	83
V112	50	1	8	2	140
	50	2	8	2	137
	60	3	5	5	83
V113	50	1	8	2	246
	50	2	8	2	233
	60	3	5	13	83
V114	50	1	8	2	659
	50	2	8	2	637
	60	3	5	35	83

RESUMO AÇO CA 50-60			
AÇO	BIT (mm)	COMPR (m)	PESO (kg)
60	5	301	46
50	6.3	23	6
50	8	219	86
50	10	45	28
50	12.5	41	40
Peso Total	60 =		46 kg
Peso Total	50 =		160 kg

Eixo Faces
Volume de concreto de VIGAS (m³) 2.9 2.4

CONTROLE DAS REVISÕES:		
REVISÃO	DATA	DESCRIÇÃO



YUTAKA KOBAYASHI

Engenharia de Estruturas

Rua Antônio Felipe, 2360 - CENTRO - Paranaval - Paraná - CEP: 87704-030

(44) 9.8827-4040 - yk@ykengehenria.com.br - Visite nosso site! http://www.ykengehenria.com.br

PROJETO:

ESTRUTURAL EM CONCRETO ARMADO

CLIENTE:

OLINTO DE CARVALHO

OBRA:

PARA CONSTRUÇÃO DE UMA EDIFICAÇÃO COMERCIAL EM CONCRETO ARMADO

LOCAL:

AVENIDA WALDEMAR ALLEGRETTI, 671 - JD. MUNIQUE - MARINGÁ - PR

REFERÊNCIA(S):

DETALHES DAS VIGAS DO TÉRREO (BALDRAME)

REVISÃO:

R-00

PRANCHA:

06

RESPONSÁVEL TÉCNICO:

Engº Mº. Esp. Yutaka Mario Kobayashi Júnior
CREA PR-89.748/D

DATA CRIAÇÃO:

20/08/2020

FCR (MPa)

25 MPa

ART Nº:

NART

PROJETO Nº:

P-480

ESCALA:

1:50