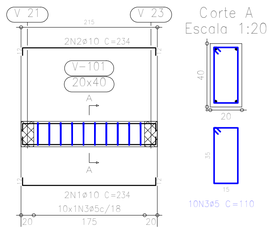
Térreo
Desenho de vigas
Concreto: C25, usina,rigor
Aço: CA-50-A e CA-60-B
Escala vigas: 1:50
Escala seções: 1:20

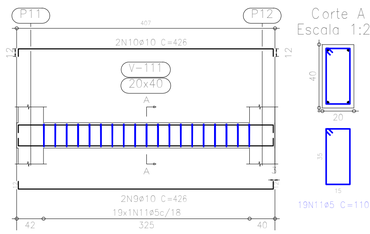
V 1
Escala 1:50



Corte A
Escala 1:20

10N3ø5 C=110

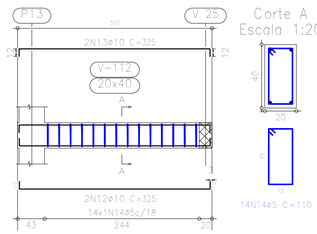
V 3
Escala 1:50



Corte A
Escala 1:20

19N11ø5 C=110

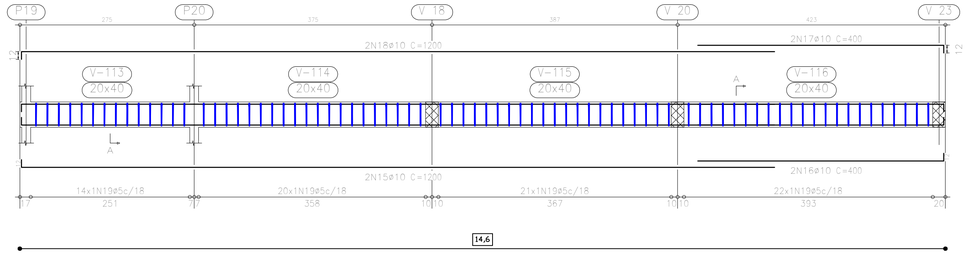
V 4
Escala 1:50



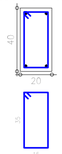
Corte A
Escala 1:20

14N14ø5 C=110

V 5
Escala 1:50



Corte A
Escala 1:20

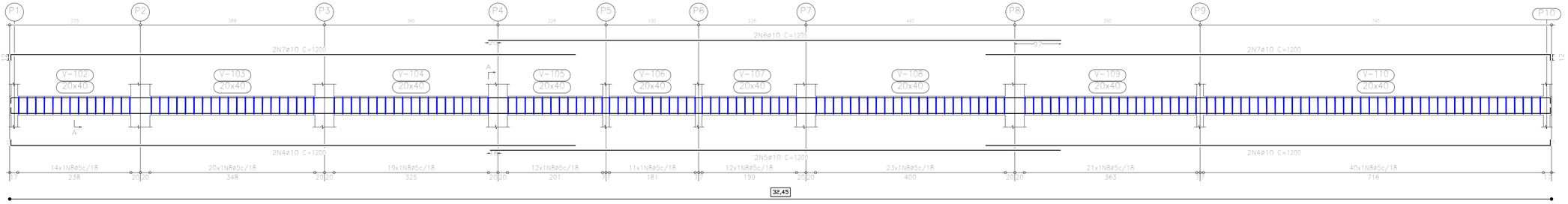


77N19ø5 C=110

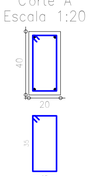
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 1	1	ø10	2	12	210	12	234	468	2,9	
	2	ø10	2	12	210	12	234	468	2,9	
	3	ø5	10				110	1100		1,7
								Total+10%	6,4	1,9
V 2	4	ø10	4		1188	12	1200	4800	30,1	
	5	ø10	2		1200		1200	2400	15,1	
	6	ø10	2		1205		1205	2410	15,1	
	7	ø10	4		1188	12	1200	4800	30,1	
	8	ø5	172				110	18920		29,7
								Total+10%	99,4	32,7
V 3	9	ø10	2	12	402	12	426	852	5,4	
	10	ø10	2	12	402	12	426	852	5,4	
	11	ø5	19				110	2090		3,3
								Total+10%	11,9	3,6
V 4	12	ø10	2	12	301	12	325	650	4,1	
	13	ø10	2	12	301	12	325	650	4,1	
	14	ø5	14				110	1540		2,4
								Total+10%	9,0	2,6
V 5	15	ø10	2	12	1188		1200	2400	15,1	
	16	ø10	2		388	12	400	800	5,0	
	17	ø10	2		388	12	400	800	5,0	
	18	ø10	2	12	1188		1200	2400	15,1	
	19	ø5	77				110	8470		13,3
								Total+10%	44,2	14,6
V 6	20	ø10	2	12	1188		1200	2400	15,1	
	21	ø10	2		388	12	400	800	5,0	
	22	ø10	2	12	1188		1200	2400	15,1	
	23	ø10	2		388	12	400	800	5,0	
	24	ø5	78				110	8580		13,5
								Total+10%	44,2	14,9
V 7	25	ø10	2	12	430	12	454	908	5,7	
	26	ø10	2	12	430	12	454	908	5,7	
	27	ø5	23				110	2530		4,0
								Total+10%	12,5	4,4
V 8	28	ø10	2	12	999	12	1023	2046	12,8	
	29	ø10	2	12	999	12	1023	2046	12,8	
	30	ø5	49				110	5390		8,5
								Total+10%	28,2	9,4
								ø5:	0,0	84,1
								ø10:	255,8	0,0
								Total:	255,8	84,1

Resumo Aço Térreo Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A ø10	984,1	680	680
CA-60-B ø5	1321,1	228	228
Total			908

V 2
Escala 1:50

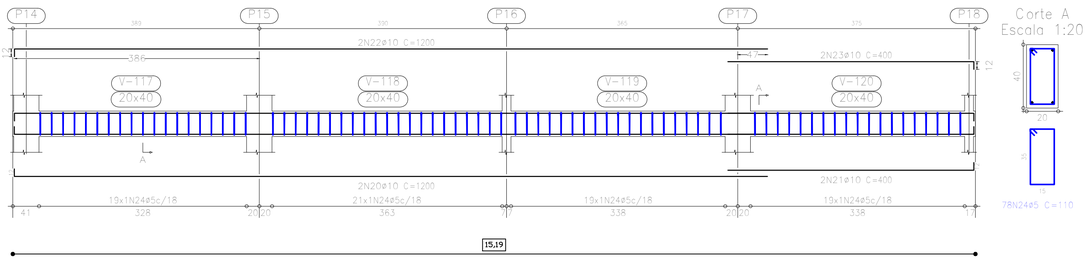


Corte A
Escala 1:20



172N8ø5 C=110

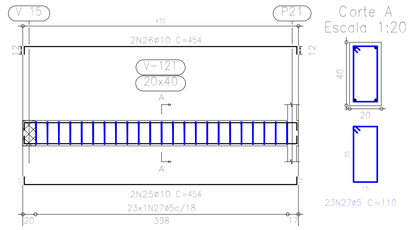
V 6
Escala 1:50



Corte A
Escala 1:20

78N24ø5 C=110

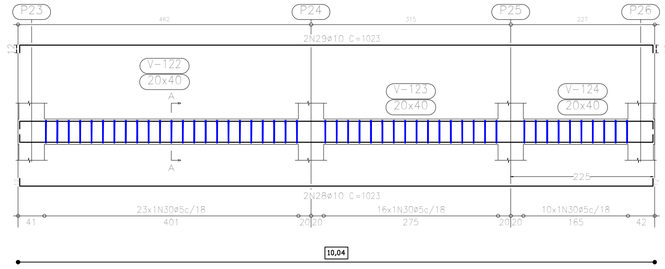
V 7
Escala 1:50



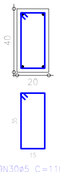
Corte A
Escala 1:20

23N27ø5 C=110

V 8
Escala 1:50



Corte A
Escala 1:20



49N30ø5 C=110

HAMILTON LIMA PAULA:00251548694

Assinado de forma digital por HAMILTON LIMA PAULA:00251548694
Dados: 2026.08.06 13:15:21 -03'00'

PROP ASS HAMILTON LIMA PAULA – PREFEITO MUNICIPAL	PREFEITURA MUNICIPAL DE MARLIÉRIA/MG		ESCALA INDICADAS
RT ASS LUIZ JOSE DE FREITAS:34506853687 Assinado de forma digital por LUIZ JOSE DE FREITAS:34506853687 Dados: 2026.08.06 11:11:37 -03'00' LUIZ JOSÉ DE FREITAS – CREA MG 177.128/D	DATA:09/2026 VISTO	PROJETO: REGIONAL DE CAVA GRANDE	NÚMERO: FOLHA 04/15
DES. APROV.	APROV.	CONTEUDO: ARMAÇÃO DE VIGAS BALDRAME	
CONF.: DATA:		LOCALIDADE: CAVA GRANDE MARLIÉRIA – MG	SEM ESCALA ESTR.