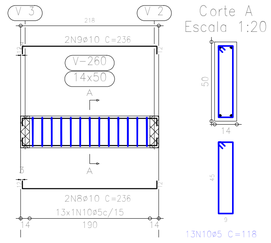
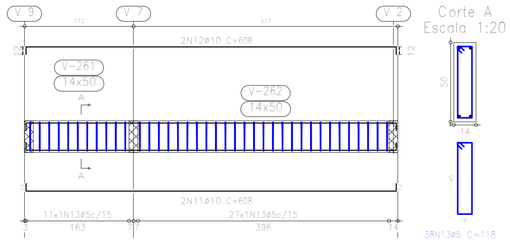
Piso 1
Desenho de vigas
Concreto: C25, usina,rigor
Aço: CA-50-A e CA-60-B
Escala vigas: 1:50
Escala seções: 1:20

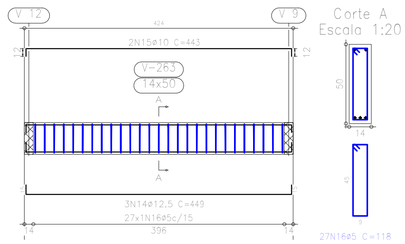
V 25
Escala 1:50



V 26
Escala 1:50

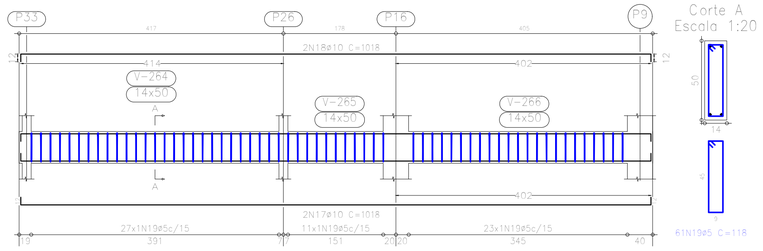


V 27
Escala 1:50

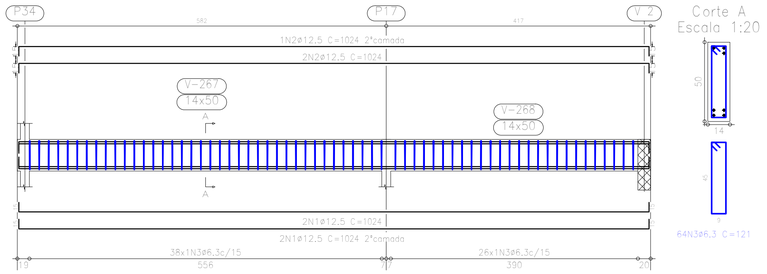


Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 29	1	ø12,5	4	15	994	15	1024	4096	40,2	
	2	ø12,5	3	15	994	15	1024	3072	30,1	
	3	ø6,3	64				121	7744	19,1	
								Total+10%:	98,3	
V 30	4	ø10	2	12	994	12	1018	2036	12,8	
	5	ø10	2	12	994	12	1018	2036	12,8	
	6	ø12,5	2	12	388		400	800	5,0	
	7	ø5	60				118	7080		11,1
								Total+10%:	30,9	12,2
V 25	8	ø10	2	12	212	12	236	472	3,0	
	9	ø10	2	12	212	12	236	472	3,0	
	10	ø5	13				118	1534		2,4
								Total+10%:	6,6	2,6
V 26	11	ø10	2	12	584	12	608	1216	7,6	
	12	ø10	2	12	584	12	608	1216	7,6	
	13	ø5	38				118	4484		7,0
								Total+10%:	16,7	7,7
V 27	14	ø12,5	3	15	419	15	449	1347	13,2	
	15	ø10	2	12	419	12	443	886	5,6	
	16	ø5	27				118	3186		5,0
								Total+10%:	20,7	5,5
V 28	17	ø10	2	12	994	12	1018	2036	12,8	
	18	ø10	2	12	994	12	1018	2036	12,8	
	19	ø5	61				118	7198		11,3
								Total+10%:	28,2	12,4
								ø5:	0,0	40,4
								ø6,3:	21,0	0,0
								ø10:	88,6	0,0
								ø12,5:	91,8	0,0
								Total:	201,4	40,4

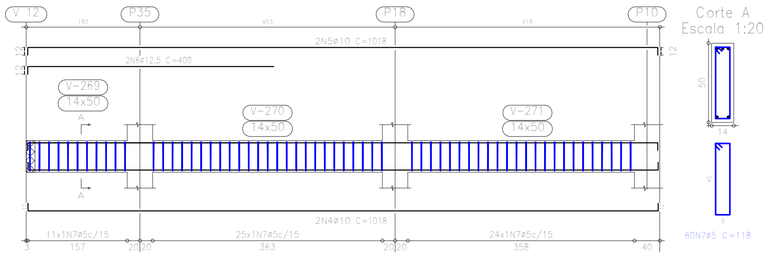
V 28
Escala 1:50



V 29
Escala 1:50



V 30
Escala 1:50



HAMILTON LIMA PAULA:00251548694
Assinado de forma digital por HAMILTON LIMA PAULA:00251548694
Dados: 2026.08.06 13:17:33 -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 11:17:23 -03'00' LUIZ JOSÉ DE FREITAS – CREA MG 177.128/D	DATA:09/2026 VISTO	PROJETO: REGIONAL DE CAVA GRANDE	NÚMERO: FOLHA 11/15
DES. APROV.	APROV.	CONTEUDO:ARMAÇÃO DE VIGAS DO 1º PAVIMENTO	
CONF.: DATA:		LOCALIDADE: CAVA GRANDE MARLIÉRIA – MG	SEM ESCALA ESTR.