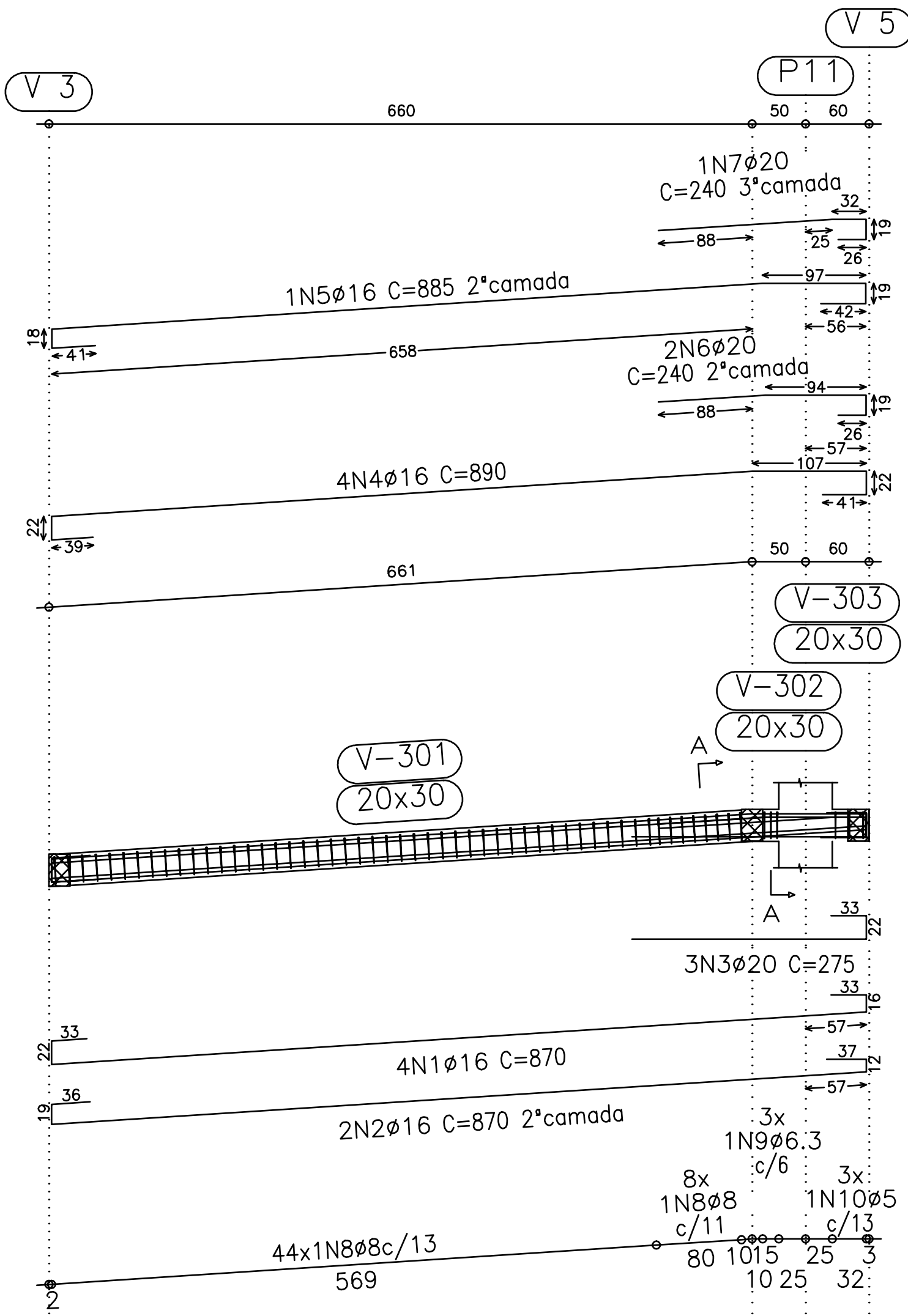
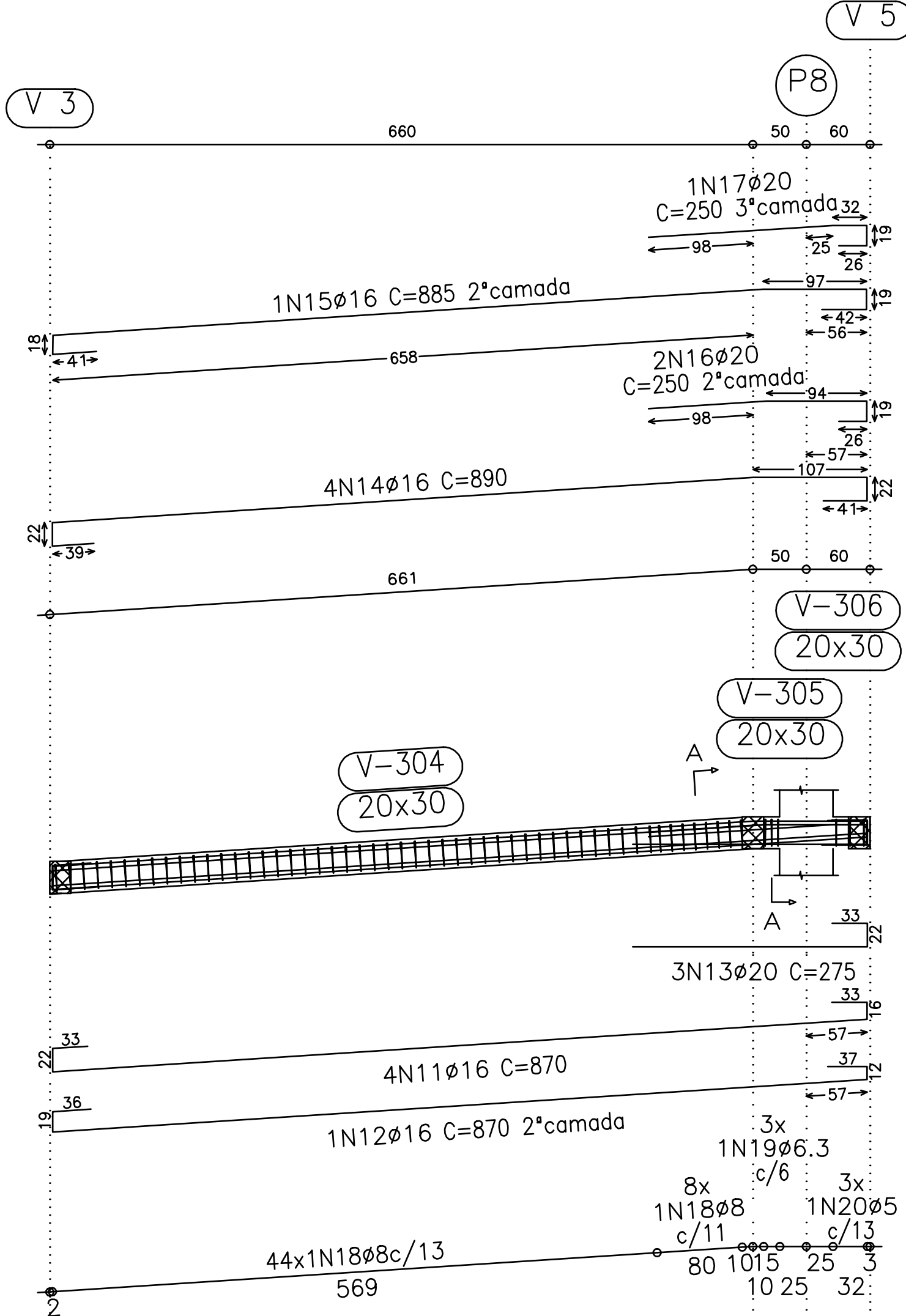


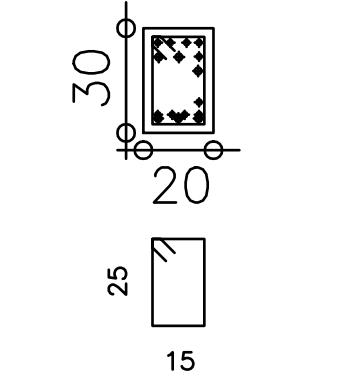
V 1
Escala 1:100



V 2
Escala 1:100



Corte A
Escala 1:50

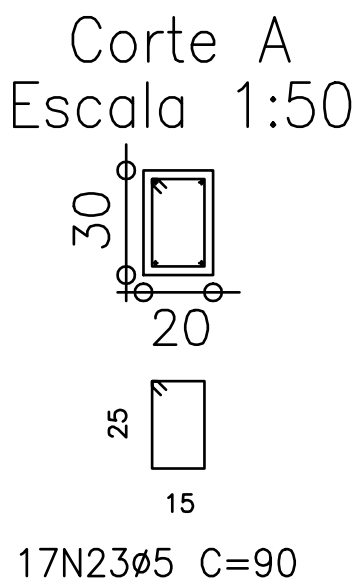
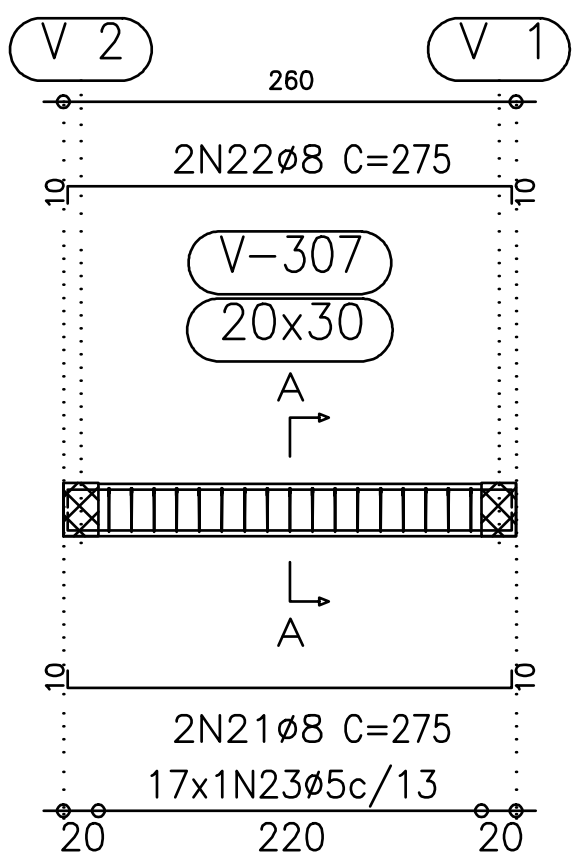


Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 1	1	ø16	4	55	766	49	870	3480	54.6	
	2	ø16	2	55	766	49	870	1740	27.3	
	3	ø20	3		220	55	275	825	20.4	
	4	ø16	4	61	766	63	890	3560	55.9	
	5	ø16	1	59	765	61	885	885	13.9	
	6	ø20	2		195	45	240	480	11.9	
	7	ø20	1		195	45	240	240	5.9	
	8	ø8	52				96	4992	19.6	
	9	ø6.3	3				93	279	0.7	
	10	ø5	3				90	270		
	Total+10%:								231.2	0.4
V 2	11	ø16	4	55	766	49	870	3480	54.6	
	12	ø16	1	55	766	49	870	870	13.7	
	13	ø20	3		220	55	275	825	20.4	
	14	ø16	4	61	766	63	890	3560	55.9	
	15	ø16	1	59	765	61	885	885	13.9	
	16	ø20	2		205	45	250	500	12.4	
	17	ø20	1		205	45	250	250	6.2	
	18	ø8	52				96	4992	19.6	
	19	ø6.3	3				93	279	0.7	
	20	ø5	3				90	270		
	Total+10%:								217.1	0.4
V 3	21	ø8	2	10	255	10	275	550	2.2	
	22	ø8	2	10	255	10	275	550	2.2	
	23	ø5	17				90	1530		
Total+10%:								4.8	2.6	
V 4	24	ø8	2	10	255	10	275	550	2.2	
	25	ø8	2	10	255	10	275	550	2.2	
	26	ø5	17				90	1530		
Total+10%:								4.8	2.6	
V 5	27	ø8	2	10	255	10	275	550	2.2	
	28	ø10	2	12	255	12	279	558	3.5	
	29	ø5	17				90	1530		
Total+10%:								6.3	2.6	
								ø5:	0.0	8.6
								ø6.3:	1.4	0.0
								ø8:	55.2	0.0
								ø10:	3.9	0.0
								ø16:	318.8	0.0
								ø20:	84.9	0.0
								Total:	464.2	8.6

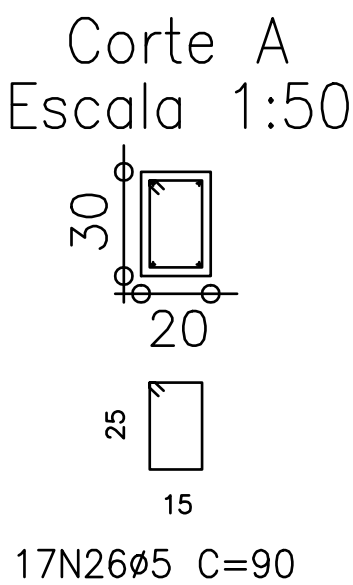
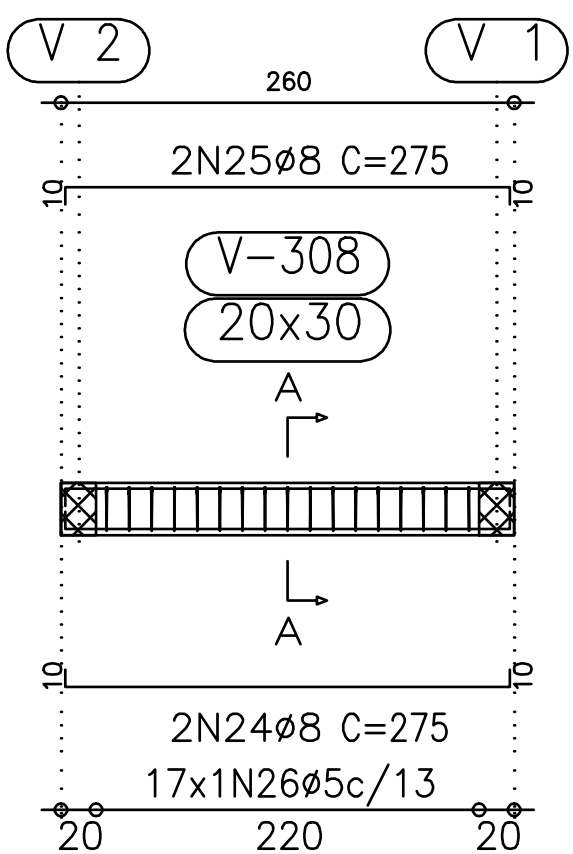
Resumo Aço Piso 2 Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A ø6.3	5.6	2	465
ø8	127.3	55	
ø10	5.6	4	
ø16	184.6	319	
ø20	31.2	85	9
CA-60-B ø5	51.3	9	
Total			474

Piso 2
Desenho de vigas
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala vigas: 1:100
Escala seções: 1:50

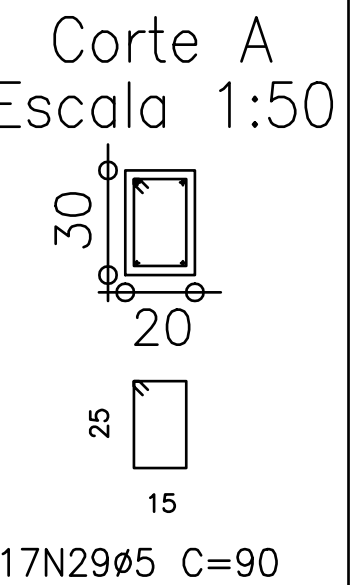
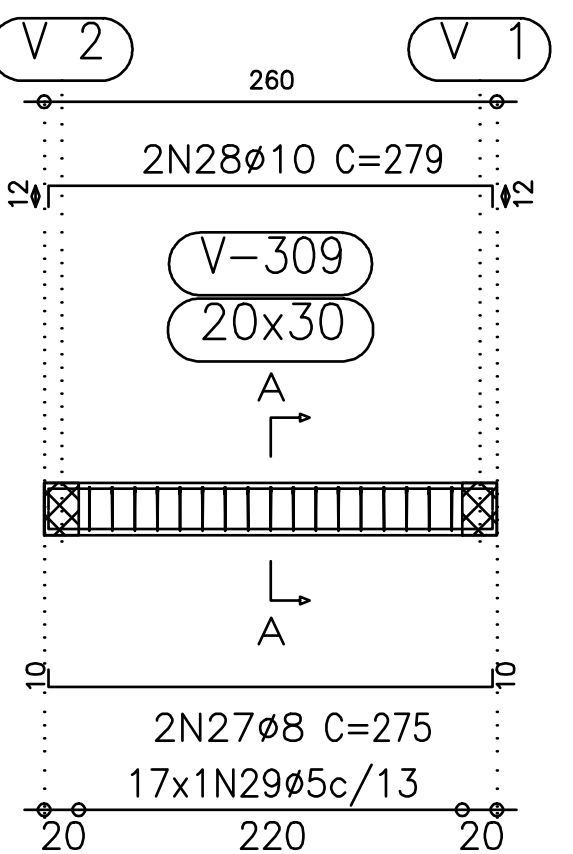
V 3
Escala 1:100



V 4
Escala 1:100



V 5
Escala 1:100



RAMPA DO RESTAURANTE CAMPUS TÓFILO OTONI AVENIDA DR. LUIS BOALI PORTO SALMAN, S/Nº - BAIRRO IPIRANGA - TEÓFILO OTONI/MG		
PROPRIETÁRIO:	UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI	CNPJ 16.888.315/0001-57
OBSERVAÇÕES CONFERIR MEDIDAS NA OBRA		
TÍTULO PROJETO DA RAMPA DO RESTAURANTE		
AUTOR PROJETO: ROBSON NOGUEIRA GOMES - CREA 111839/D		
VERSÃO: VERSAO 1	DATA: 22.05.2013	AUTOCAD: FOLHA: 38/66