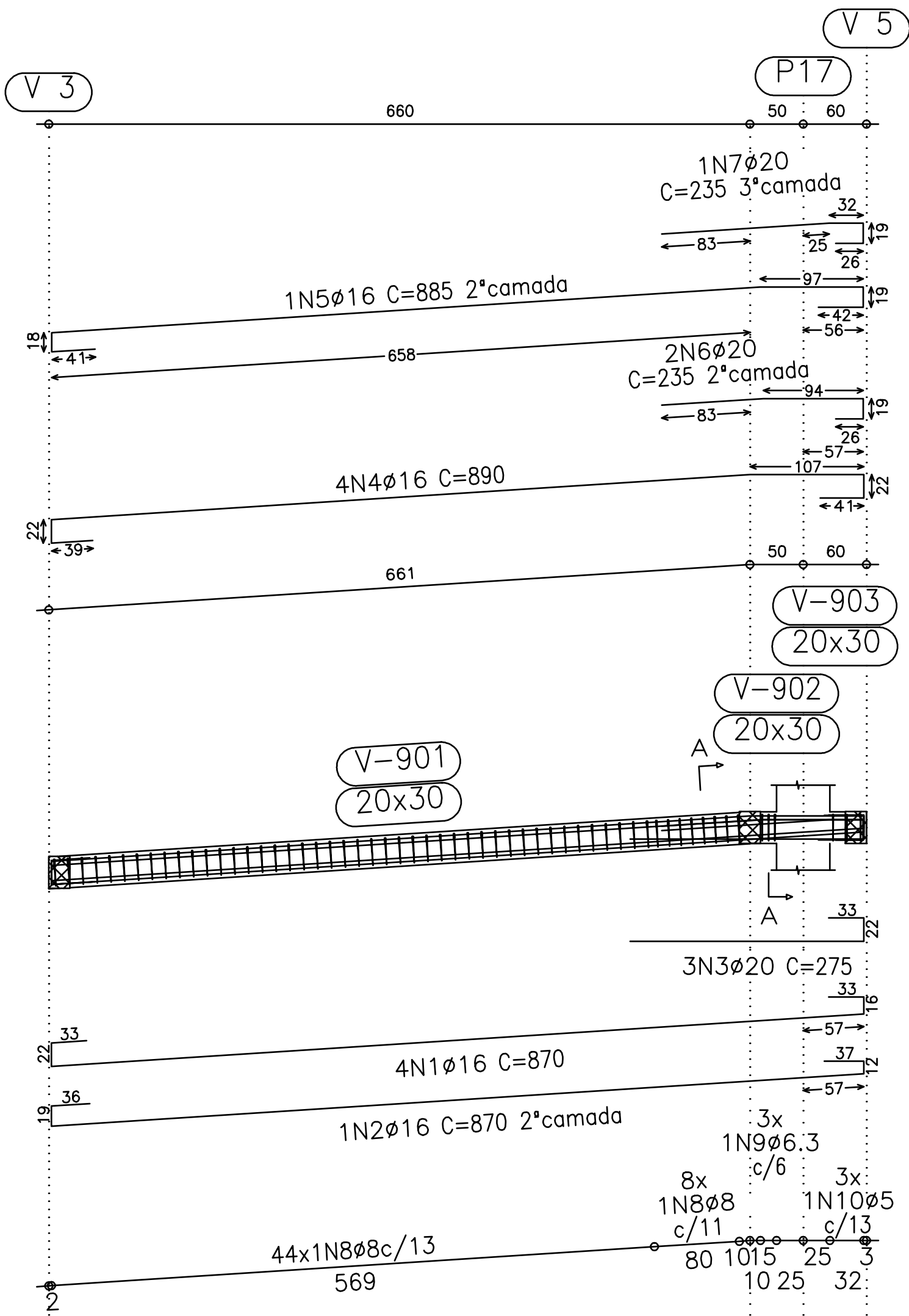
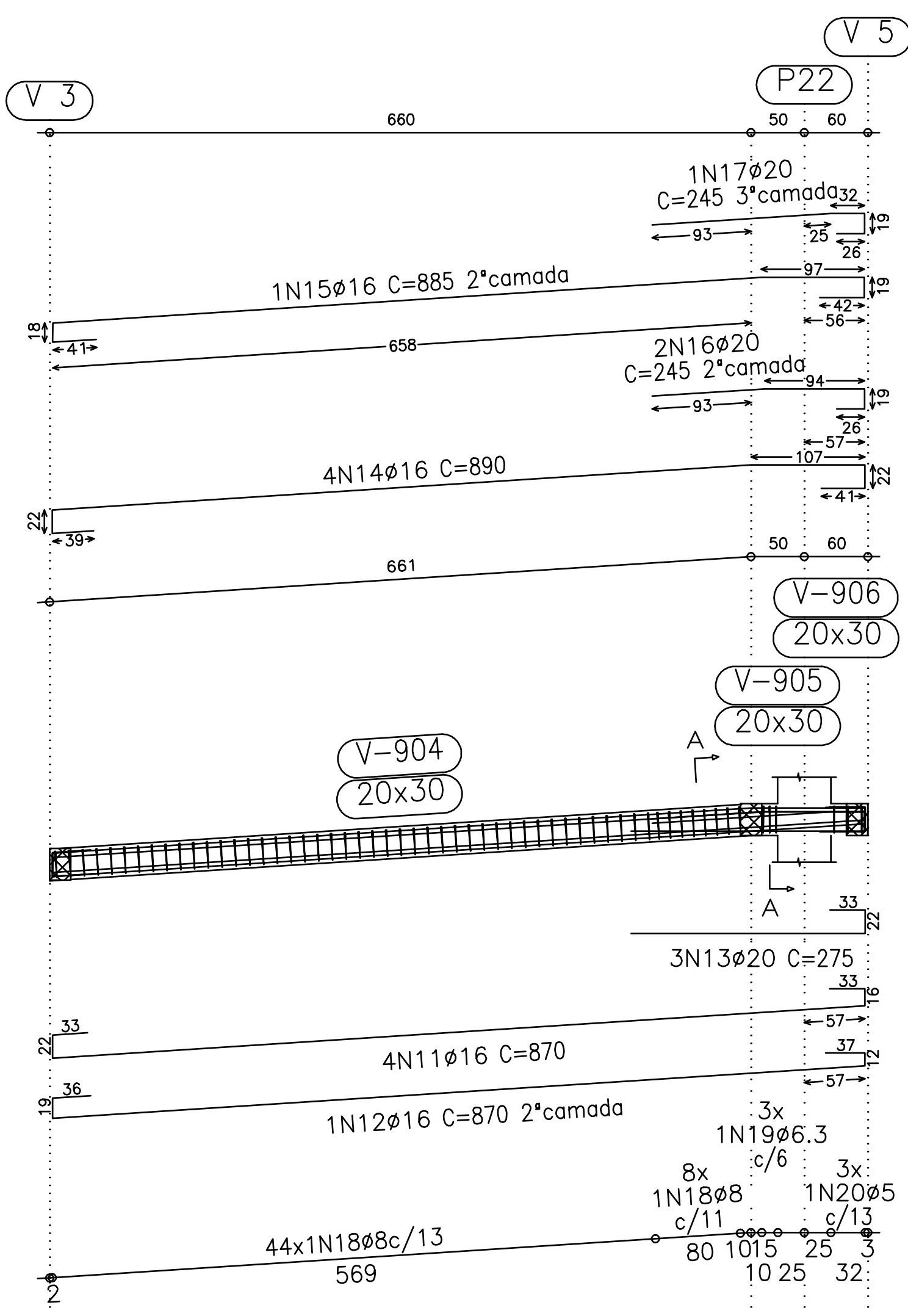


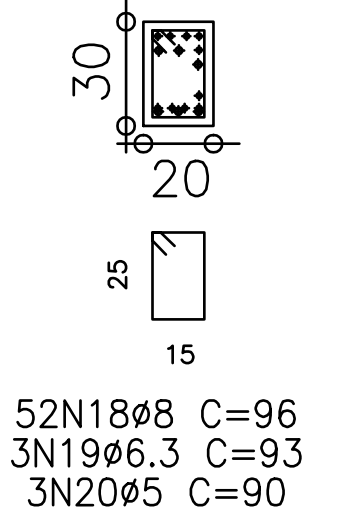
V 1
Escala 1:100



V 2
Escala 1:100



Corte A
Escala 1:50

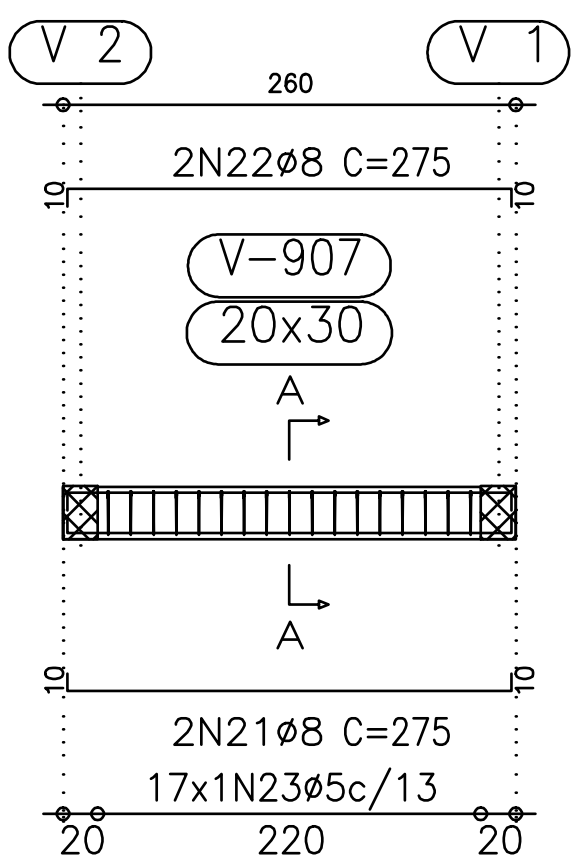


Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)	
V 1	1	ø16	4	55	766	49	870	3480	54.6		
	2	ø16	1	55	766	49	870	870	13.7		
	3	ø20	3		220	55	275	825	20.4		
	4	ø16	4	61	766	63	890	3560	55.9		
	5	ø16	1	59	765	61	885	885	13.9		
	6	ø20	2		190	45	235	470	11.6		
	7	ø20	1		190	45	235	235	5.8		
	8	ø8	52				96	4992	19.6		
	9	ø6.3	3				93	279	0.7		
	10	ø5	3				90	270			
	Total+10%:									215.8	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		200	45	245	490	12.1		
	17	ø20	1		200	45	245	245	6.1		
	18	ø8	52				96	4992	19.6		
	19	ø6.3	3				93	279	0.7		
	20	ø5	3				90	270			
	Total+10%:									216.7	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:	1.5	0.0
									ø8:	55.1	0.0
									ø10:	3.9	0.0
									ø16:	303.8	0.0
									ø20:	84.1	0.0
									Total:	448.4	8.6

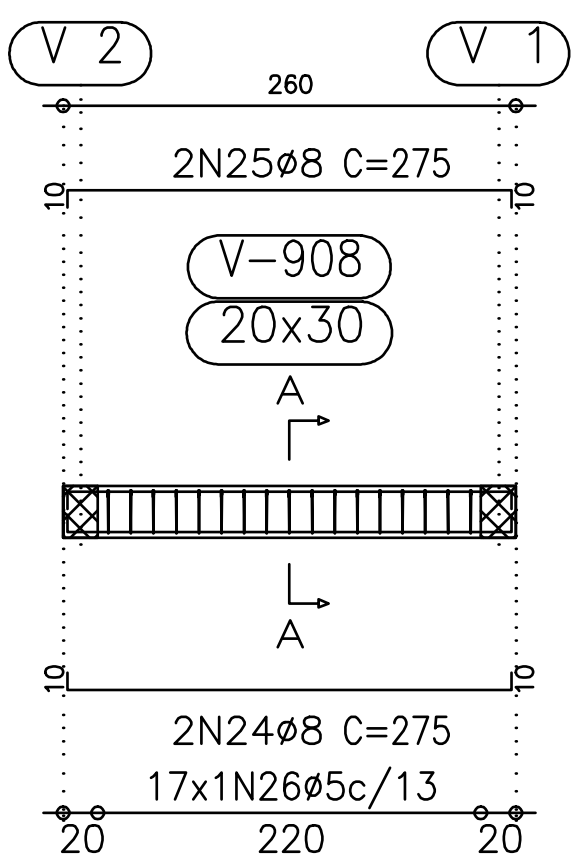
Resumo Aço Piso 8 Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A Ø6.3	5.6	2	449
Ø8	127.3	55	
Ø10	5.6	4	
Ø16	175.9	304	
Ø20	30.9	84	9
CA-60-B Ø5	51.3	9	
Total			458

Piso 8
Desenho de vigas
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala vigas: 1:100
Escala seções: 1:50

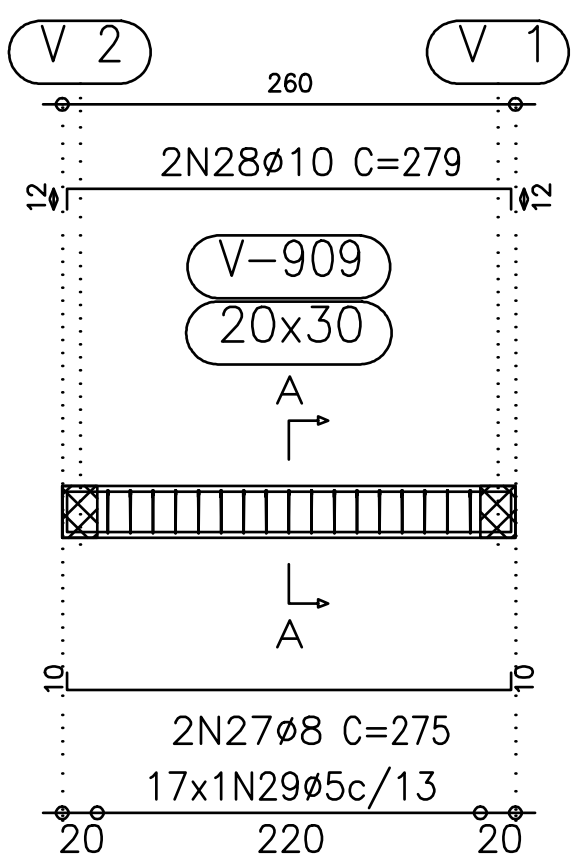
V 3
Escala 1:100



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: 47/66