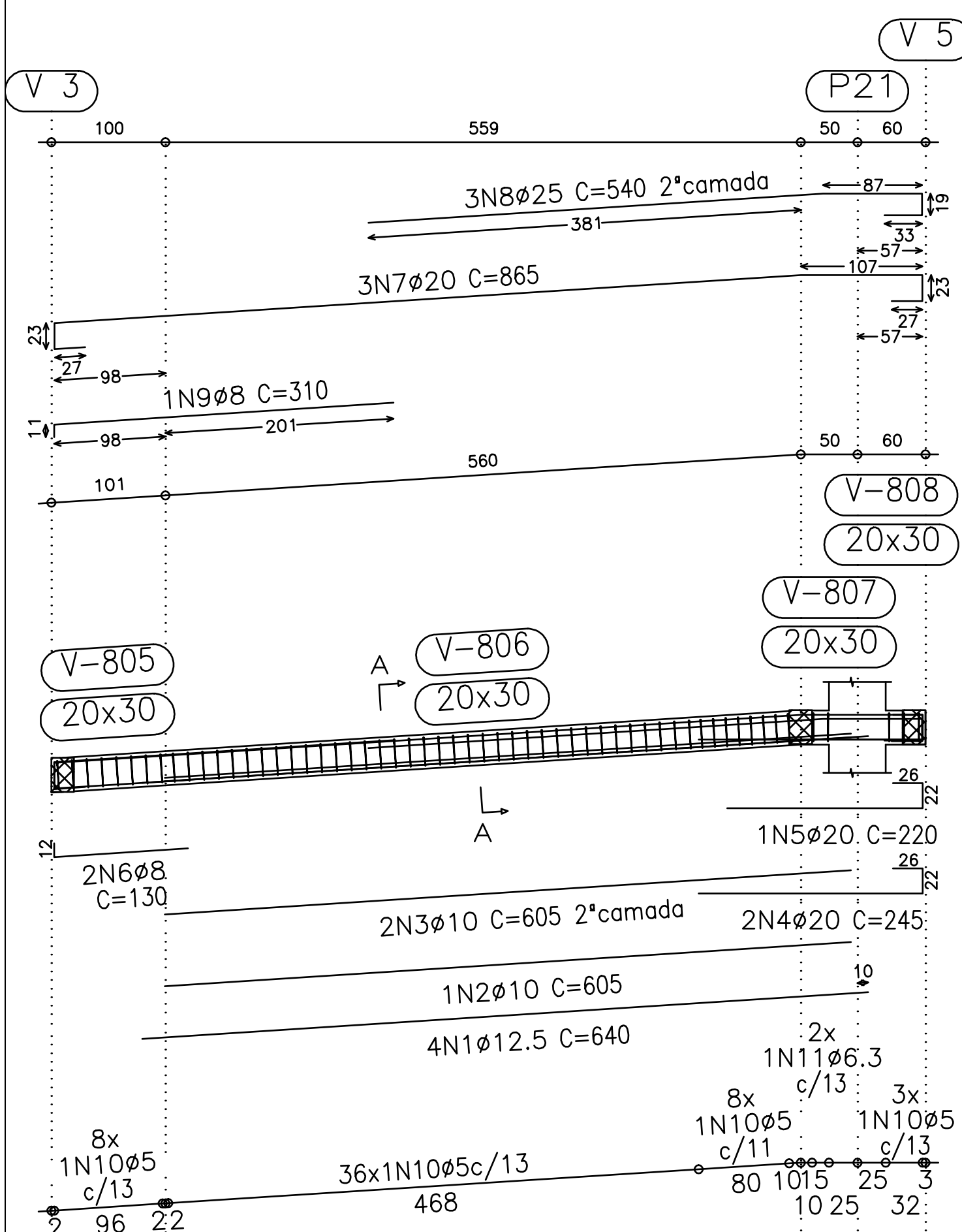
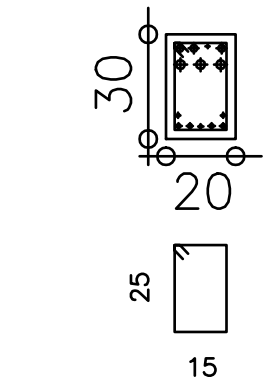


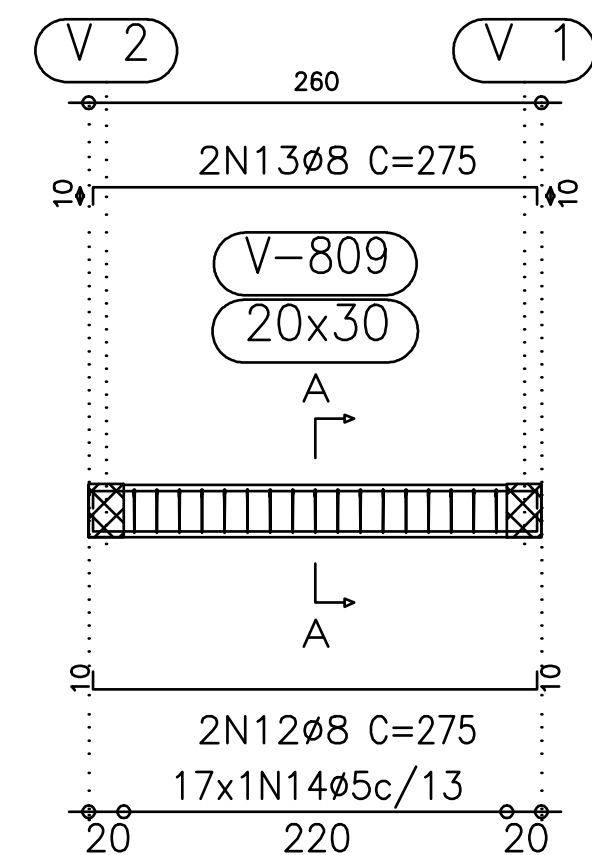
V 2
Escala 1:100



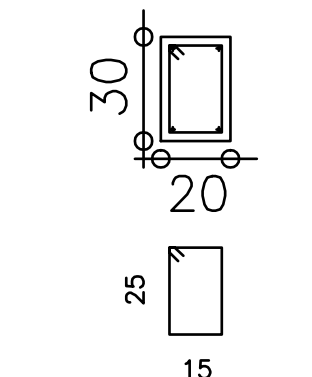
Corte A
Escala 1:50



V 3
Escala 1:100

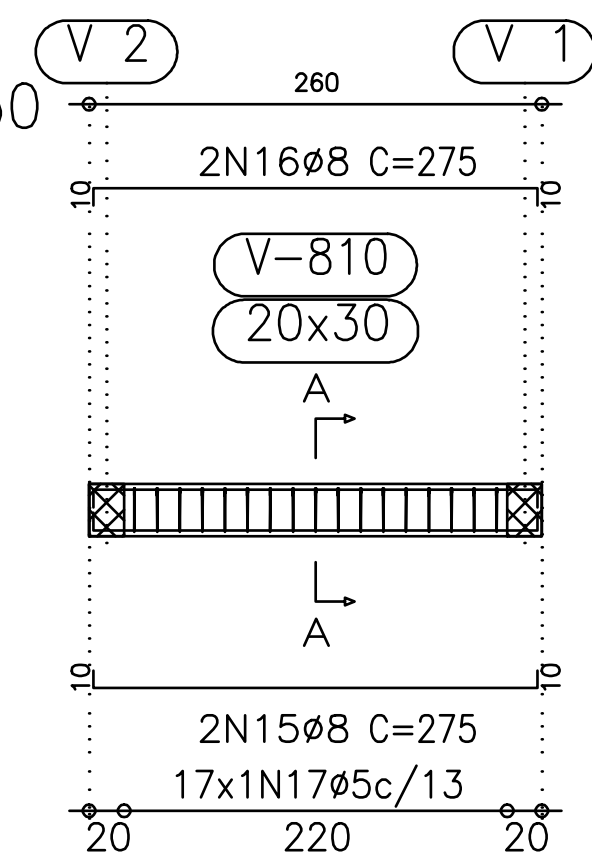


Corte A (Escala 1:50)

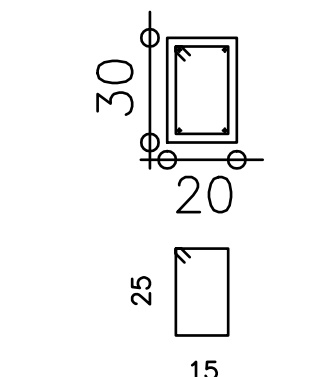


17N14ø5 C=90

V 4
Escala 1:100



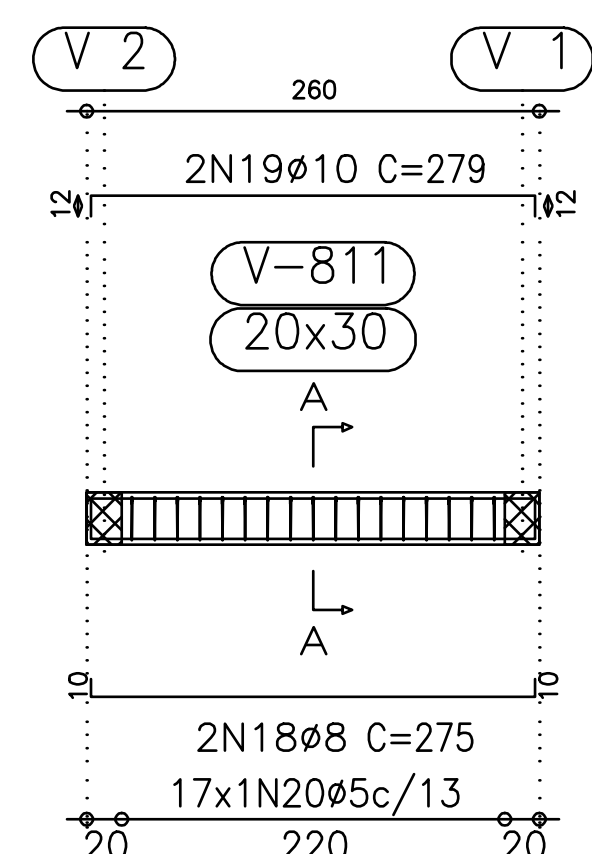
Corte A
Escala 1:50



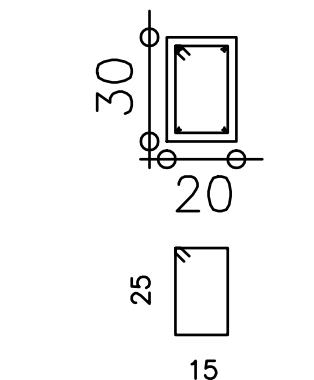
17N1705 C=90

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 2	1	ø12.5	4		640		640	2560	25.1	7.8
	2	ø10	1		605		605	605	3.8	
	3	ø10	2		605		605	1210	7.6	
	4	ø20	2		197	48	245	490	12.1	
	5	ø20	1		172	48	220	220	5.4	
	6	ø8	2	12	118		130	260	1.0	
	7	ø20	3	50	765	50	865	2595	64.2	
	8	ø25	3		488	52	540	1620	63.6	
	9	ø8	1	11	299		310	310	1.2	
	10	ø5	55				90	4950		
	11	ø6.3	2				93	186	0.5	
	Total+10%:									
V 3	12	ø8	2	10	255	10	275	550	2.2	2.4
	13	ø8	2	10	255	10	275	550	2.2	
	14	ø5	17				90	1530		
	Total+10%:									
V 4	15	ø8	2	10	255	10	275	550	2.2	2.4
	16	ø8	2	10	255	10	275	550	2.2	
	17	ø5	17				90	1530		
	Total+10%:									
V 5	18	ø8	2	10	255	10	275	550	2.2	2.4
	19	ø10	2	12	255	12	279	558	3.5	
	20	ø5	17				90	1530		
	Total+10%:									
ø5:									0.0	16.4
ø6.3:									0.6	0.0
ø8:									14.4	0.0
ø10:									16.5	0.0
ø12.5:									27.6	0.0
ø20:									89.8	0.0
ø25:									70.0	0.0
Total:									218.9	16.4

V 5
Escala 1:100



Corte A
Escala 1:50



17N20ø5 C=90

Piso 7

Desenho de vigas

Concreto: C20, em geral

Aço: CA-50-A e CA-60-B

Escala vigas: 1:100

Escala seções: 1:50

RAMPA DO RESTAURANTE CAMPUS TÓFILO OTONI AVENIDA DR. LUIS BOALI PORTO SALMAN, S/Nº – BAIRRO IPIRANGA – TEOFILO 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: 46/66