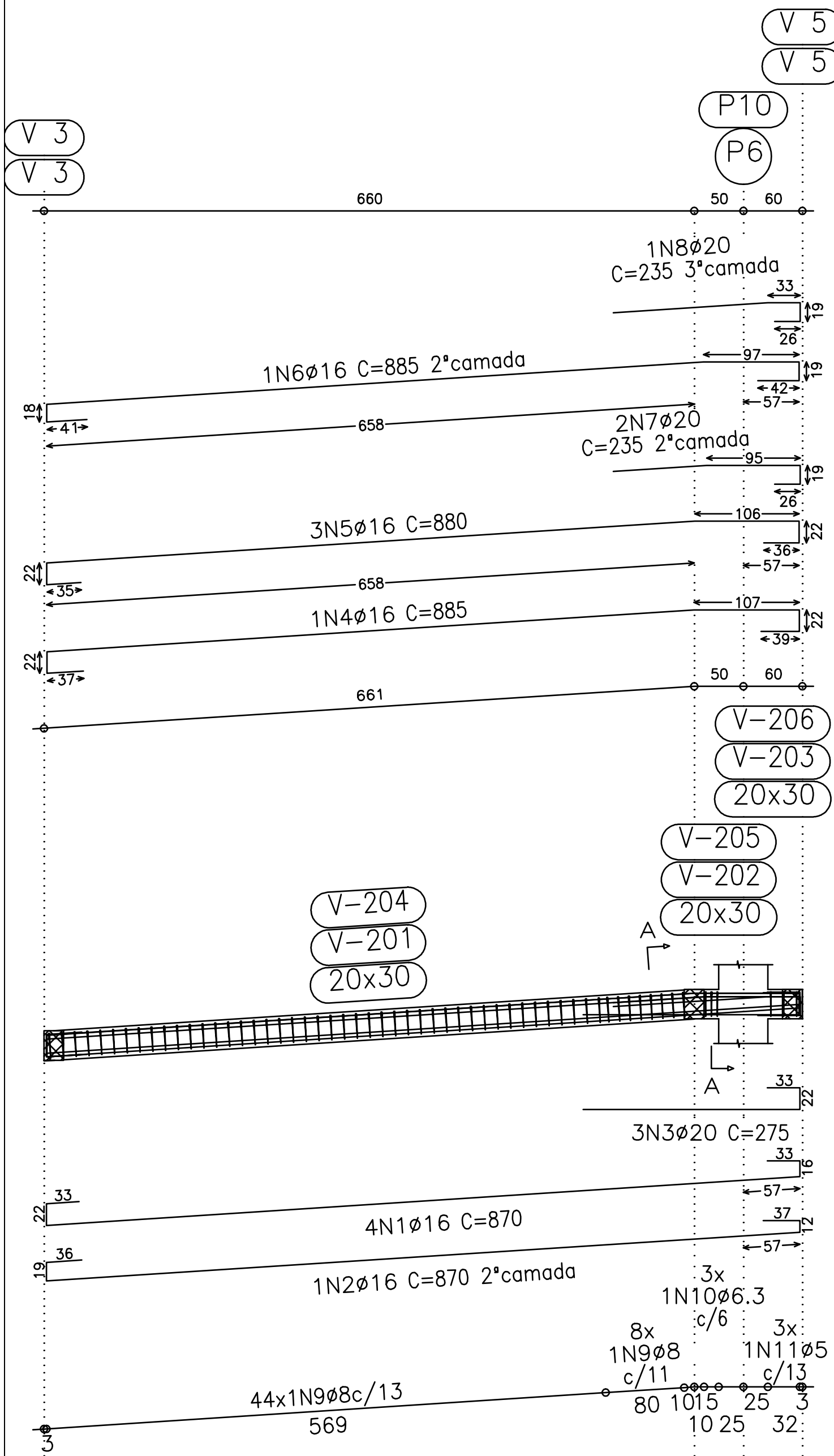
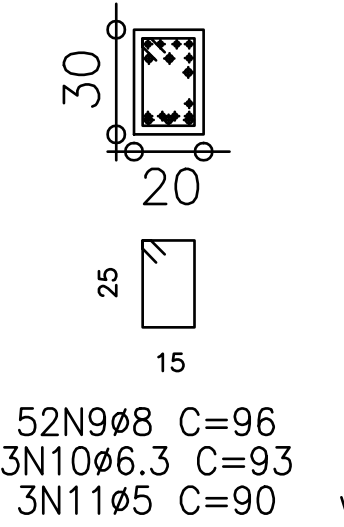


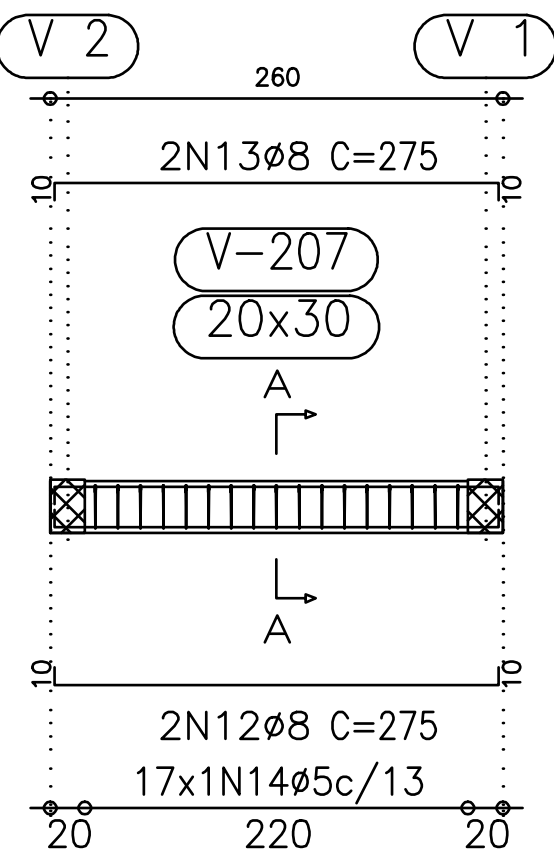
V 1
V 2
Escala 1:100



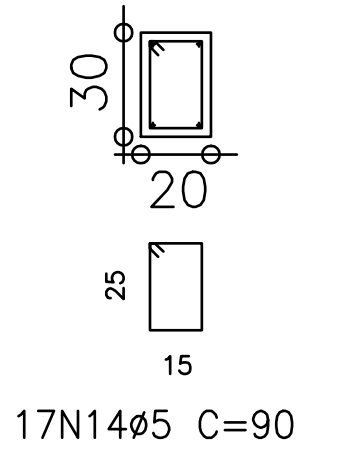
Corte A
Escala 1:50



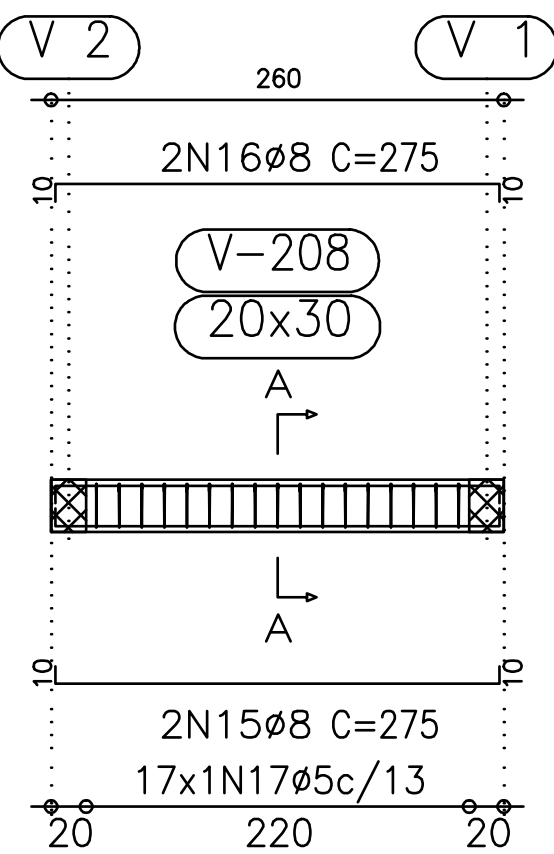
V 3
Escala 1:100



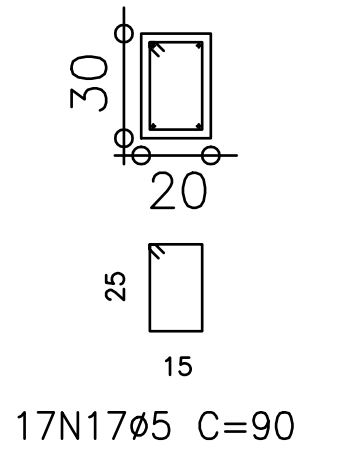
Corte A
Escala 1:50



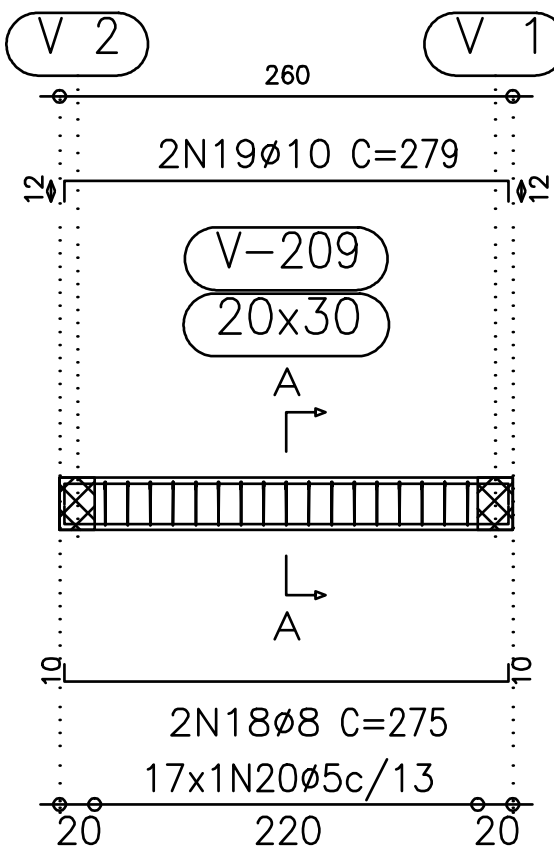
V 4
Escala 1:100



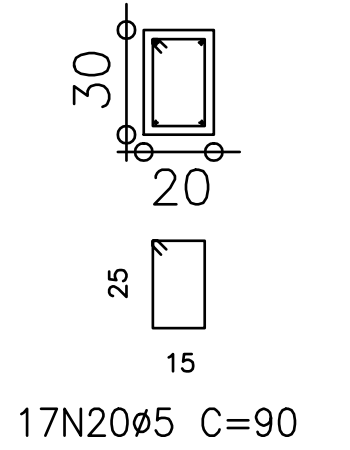
Corte A
Escala 1:50



V 5
Escala 1:100



Corte A
Escala 1:50



Resumo Aço Piso 1 Vigas	Comp. total (m)	Peso+10% (kg)	Total
CA-50-A ø6.3	5.6	2	447
ø8	127.3	55	
ø10	5.6	4	
ø16	175.2	303	
ø20	30.6	83	
CA-60-B ø5	51.3	9	9
Total			456

Piso 1
Desenho de vigas
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala vigas: 1:100
Escala seções: 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=V 2	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	1	59	765	61	885	885	13.9		
	5	ø16	3	57	765	58	880	2640	41.4		
	6	ø16	1	59	765	61	885	885	13.9		
	7	ø20	2		190	45	235	470	11.6		
	8	ø20	1		190	45	235	235	5.8		
	9	ø8	52				96	4992	19.6		
	10	ø6.3	3				93	279	0.7		
	11	ø5	3				90	270			
	Total+10%: (x2):									215.2 430.4	0.4 0.8
V 3	12	ø8	2	10	255	10	275	550	2.2		
	13	ø8	2	10	255	10	275	550	2.2		
	14	ø5	17				90	1530			
	Total+10%:									4.8	2.6
V 4	15	ø8	2	10	255	10	275	550	2.2		
	16	ø8	2	10	255	10	275	550	2.2		
	17	ø5	17				90	1530			
	Total+10%:									4.8	2.6
V 5	18	ø8	2	10	255	10	275	550	2.2		
	19	ø10	2	12	255	12	279	558	3.5		
	20	ø5	17				90	1530			
	Total+10%:									6.3	2.6
									ø5:	0.0	8.6
									ø6.3:	1.6	0.0
									ø8:	55.2	0.0
									ø10:	3.9	0.0
									ø16:	302.6	0.0
									ø20:	83.0	0.0
									Total:	446.3	8.6

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: 37/66