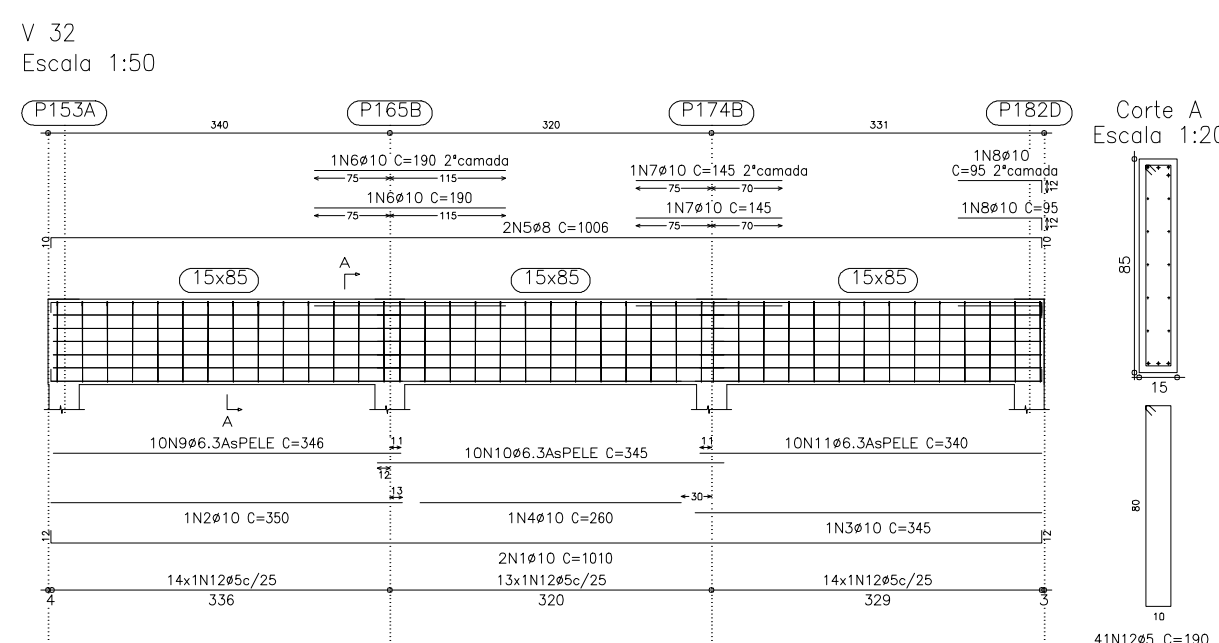
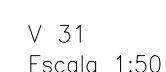
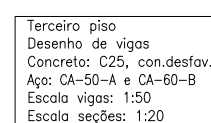
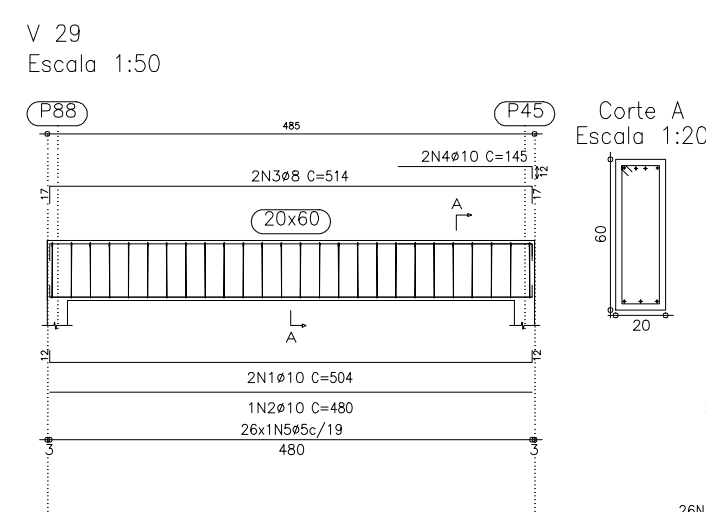
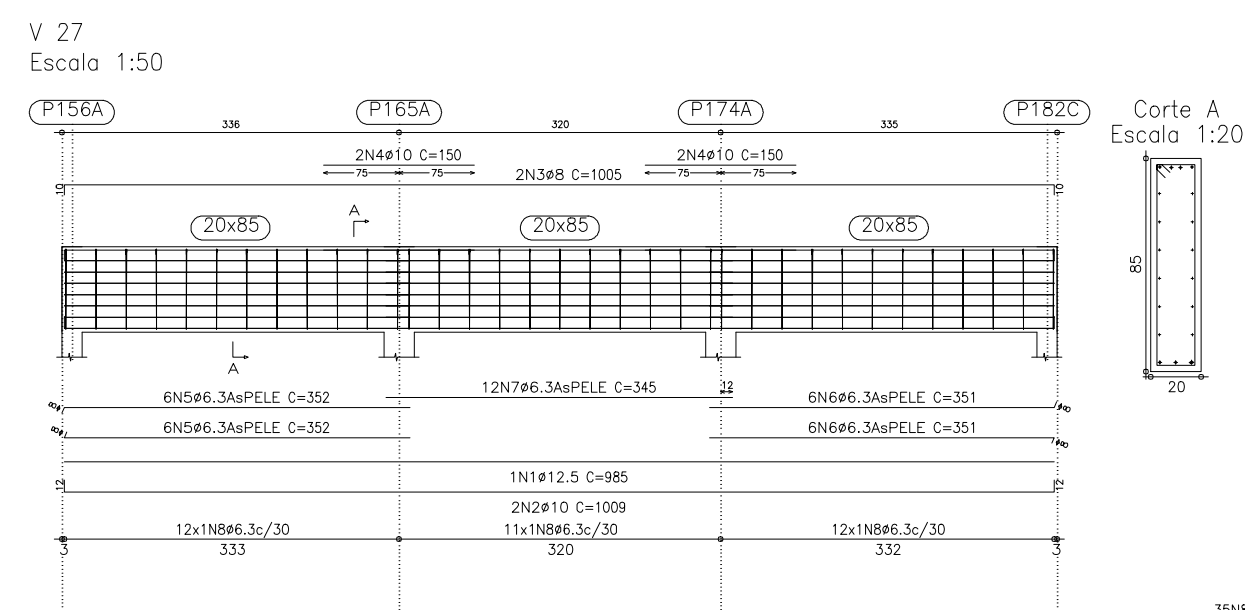
[illegible]

Elemento	Pos.	Diam. Q.	Dob. (cm)	Ret. (dob) (cm)	Comp. (cm)	Tota (dob+comp.) (cm)	Alta (kg)	Alca-60 (kg)
y 27	1	8 1/2	5	885	985	985	983	9.7
	2	8 1/2	5	885	102	1028	1018	9.7
	3	8 1/2	5	885	1005	1005	2000	7.9
	4	8 1/2	5	885	150	150	150	1.5
	5	8 1/2	6	844	355	355	4224	10.4
	6	8 1/2	12	343	8	8	253	10.5
	7	8 1/2	12	344	38	38	404	10.2
	8	8 1/2	12	343	203	203	204	10.2
Total=1086							91.0	
y 28	1	8 1/2	5	665	665	665	665	5.5
	2	8 1/2	12	665	12	678	678	11.0
	3	8 1/2	12	253	253	253	500	3.3
	4	8 1/2	12	283	283	283	283	3.5
	5	8 1/2	12	180	180	180	1800	7.1
	6	8 1/2	12	358	370	370	370	1.5
	7	8 1/2	12	150	150	150	300	1.5
	8	8 1/2	12	345	345	345	8020	11.5
	9	8 1/2	12	150	150	1800	1800	
	10	8 1/2	12	203	203	4500	4500	2.8
Total=1086							72.2	3.1
y 29	1	8 1/2	12	480	480	504	1008	6.3
	2	8 1/2	12	480	480	504	1008	6.3
	3	8 1/2	12	480	480	514	1028	6.3
	4	8 1/2	12	480	480	145	90	1.8
	5	8 1/2	26	133	12	150	3900	6.1
Total=1086							16.6	6.7
y 30	1	8 1/2	2	1085	1085	2170	15.6	
	2	8 1/2	2	1085	12	504	1008	6.3
	3	8 1/2	2	1120	1120	1120	2240	6.3
	4	8 1/2	2	1120	1120	1130	2260	6.3
	5	8 1/2	2	512	512	512	512	6.3
	6	8 1/2	3	1243	1243	1508	6.7	
	7	8 1/2	3	1243	1243	1243	1243	6.7
	8	8 1/2	3	1243	1243	1243	1243	6.7

8	0	10	2	195	195	200	24	
10	0	10	12	113	12	250	16	
11	0	10	12	98	10	220	14	
11	65	62	10	120	20	7440	14	
12	65	14	10	120	20	7440	14	
Total+1560							11.7	
Total+1560							60.5	
y 31	1	0	10	2	1718	12	130	14.9
	2	0	10	12	783	12	256	16.0
	3	0	10	12	518	12	530	20.80
	4	0	10	12	363	12	700	14.00
	5	0	10	12	1125	115	2270	8.7
	6	0	10	12	680	110	2105	27.0
	7	0	10	12	175	170	1400	8.3
	8	0	10	12	220	220	440	2.8
	9	0	10	12	175	175	350	2.3
	10	0	10	12	155	155	310	1.9
	11	0	10	12	150	150	300	1.8
	12	0	10	12	140	140	280	1.8
	13	0	10	12	120	120	240	1.2
	14	0	10	12	83	12	95	1.0
	15	0	10	12	100	100	200	1.0
	16	0	10	12	120	120	240	1.2
	17	0	10	12	100	100	200	1.0
	18	0	10	12	120	120	240	1.2
	19	0	10	12	100	100	200	1.0
	20	0	10	12	120	120	240	1.2
	21	0	10	12	100	100	200	1.0
	22	0	10	12	120	120	240	1.2
	23	0	10	12	100	100	200	1.0
	24	0	10	12	120	120	240	1.2
	25	0	10	12	100	100	200	1.0
	26	0	10	12	120	120	240	1.2
	27	0	10	12	100	100	200	1.0
	28	0	10	12	120	120	240	1.2
	29	0	10	12	100	100	200	1.0
	30	0	10	12	120	120	240	1.2
	31	0	10	12	100	100	200	1.0
	32	0	10	12	120	120	240	1.2
	33	0	10	12	100	100	200	1.0
	34	0	10	12	120	120	240	1.2
	35	0	10	12	100	100	200	1.0
	36	0	10	12	120	120	240	1.2
	37	0	10	12	100	100	200	1.0
	38	0	10	12	120	120	240	1.2
	39	0	10	12	100	100	200	1.0
	40	0	10	12	120	120	240	1.2
	41	0	10	12	100	100	200	1.0
	42	0	10	12	120	120	240	1.2
	43	0	10	12	100	100	200	1.0
	44	0	10	12	120	120	240	1.2
	45	0	10	12	100	100	200	1.0
	46	0	10	12	120	120	240	1.2
	47	0	10	12	100	100	200	1.0
	48	0	10	12	120	120	240	1.2
	49	0	10	12	100	100	200	1.0
	50	0	10	12	120	120	240	1.2
	51	0	10	12	100	100	200	1.0
	52	0	10	12	120	120	240	1.2
	53	0	10	12	100	100	200	1.0
	54	0	10	12	120	120	240	1.2
	55	0	10	12	100	100	200	1.0
	56	0	10	12	120	120	240	1.2
	57	0	10	12	100	100	200	1.0
	58	0	10	12	120	120	240	1.2
	59	0	10	12	100	100	200	1.0
	60	0	10	12	120	120	240	1.2
	61	0	10	12	100	100	200	1.0
	62	0	10	12	120	120	240	1.2
	63	0	10	12	100	100	200	1.0
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	65	0	10	12	100	100	200	1.0
	66	0	10	12	120	120	240	1.2
	67	0	10	12	100	100	200	1.0
	68	0	10	12	120	120	240	1.2
	69	0	10	12	100	100	200	1.0
	70	0	10	12	120	120	240	1.2
	71	0	10	12	100	100	200	1.0
	72	0	10	12	120	120	240	1.2
	73	0	10	12	100	100	200	1.0
	74	0	10	12	120	120	240	1.2
	75	0	10	12	100	100	200	1.0
	76	0	10	12	120	120	240	1.2
	77	0	10	12	100	100	200	1.0
	78	0	10	12	120	120	240	1.2
	79	0	10	12	100	100	200	1.0
	80	0	10	12	120	120	240	1.2
	81	0	10	12	100	100	200	1.0
	82	0	10	12	120	120	240	1.2
	83	0	10	12	100	100	200	1.0
	84	0	10	12	120	120	240	1.2
	85	0	10	12	100	100	200	1.0
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	87	0	10	12	100	100	200	1.0
	88	0	10	12	120	120	240	1.2
	89	0	10	12	100	100	200	1.0
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	91	0	10	12	100	100	200	1.0
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	93	0	10	12	100	100	200	1.0
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	95	0	10	12	100	100	200	1.0
	96	0	10	12	120	120	240	1.2
	97	0	10	12	100	100	200	1.0
	98	0	10	12	120	120	240	1.2
	99	0	10	12	100	100	200	1.0
	100	0	10	12	120	120	240	1.2
	101	0	10	12	100	100	200	1.0
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	103	0	10	12	100	100	200	1.0
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	105	0	10	12	100	100	200	1.0
	106	0	10	12	120	120	240	1.2
	107	0	10	12	100	100	200	1.0
	108	0	10	12	120	120	240	1.2
	109	0	10	12	100	100	200	1.0
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	111	0	10	12	100	100	200	1.0
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	113	0	10	12	100	100	200	1.0
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	115	0	10	12	100	100	200	1.0
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	117	0	10	12	100	100	200	1.0
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	119	0	10	12	100	100	200	1.0
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	123	0	10	12	100	100	200	1.0
	124	0	10	12	120	120	240	1.2
	125	0	10	12	100	100	200	1.0
	126	0	10	12	120	120	240	1.2
	127	0	10	12	100	100	200	1.0
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	129	0	10	12	100	100	200	1.0
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	131	0	10	12	100	100	200	1.0
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	143	0	10	12	100	100	200	1.0
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	145	0	10	12	100	100	200	1.0
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	149	0	10	12	100	100	200	1.0
	150	0	10	12	120	120	240	1.2
	151	0	10	12	100	100	200	1.0
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	165	0	10	12	100	100	200	1.0
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	169	0	10	12	100	100	200	1.0
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	173	0	10	12	100	100	200	1.0
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	175	0	10	12	100	100	200	1.0
	176	0	10	12	120	120	240	1.2
	177	0	10	12	100	100	200	1.0
	178	0	10	12	120	120	240	1.2
	179	0						

Y 32	1	0 10	2	12	866	12	1010	2020	12.7	27.3
	2	0 10	2	10	350	350	350	350	2.2	
	3	0 10	2	10	340	340	340	340	2.2	
	4	0 10	1	260	260	260	260	1.6		
	5	0 10	2	10	986	10	1038	2013	8	
	6	0 10	2	10	190	190	190	190	2.4	
	7	0 10	2	145	145	145	145	2.9		
	8	0 10	2	130	130	130	130	2.2		
	9	0 10	3	346	346	346	346	8.6		
	10	0 10	3	340	340	340	340	8.6		
Y 44	11	0 10	3	340	340	340	3400	3400	8.4	12.4
	12	0 10	2	10	190	190	190	190	2.4	
	[tab=10]								63.5	
	1	0 12.5	2	385	385	385	385	7.6		
	2	0 10	2	360	360	360	360	7.2		
	3	0 10	2	12	363	375	750	4.7		
	4	0 10	2	360	360	360	360	7.2		
	5	0 10	1	350	350	350	350	2.2		
	6	0 10	2	123	123	125	730	4.6		
	7	0 10	2	118	118	118	118	2.2		
Y 52	8	0 9	2	1164	10	1174	2348	9.2	12.2	
	9	0 9	2	260	260	260	260	2.0		
	10	0 10	2	200	200	200	200	2.0		
	11	0 10	2	200	200	200	200	2.0		
	12	0 10	2	200	200	200	200	2.0		
	13	0 10	2	200	200	200	200	2.0		
	14	0 10	2	200	200	200	200	2.0		
	15	0 10	2	200	200	200	200	2.0		
	16	0 10	2	200	200	200	200	2.0		
	17	0 10	2	200	200	200	200	2.0		

	12	6e.3	12	8	352	380	4120	10.7	
	13	6e.3	12	8	345	345	4140	10.2	
	14	6e.3	12	8	342	350	4200	10.0	
	15	6e.5	11	8	110	110	1210	10.0	
	16	6e.5	11	8	103	103	1696	10.0	2.1
							Total+10.6	103.0	
y.39	1	12i2.5	1	8	985	985	983	9.7	
	2	e10	12	12	985	12	2016	9.7	
	3	e10	12	12	985	210	4420	9.6	
	4	e10	12	11	164	10	1194	9.6	
	5	e10	2	12	263	275	506	9.6	
	6	e10	2	12	250	250	500	3.3	
	7	e10	2	12	150	150	300	3.0	
	8	6e.3	12	8	352	380	4320	10.7	
	9	6e.3	12	8	345	345	4340	10.2	
	10	6e.3	12	8	342	350	4380	10.4	
	11	6e.5	11	8	110	110	1210	10.0	1.9
	12	6e.5	11	8	103	103	1696	10.0	
							Total+10.6	99.8	2.1
					e5	0.0	78.5		
					e6.3	178.2	0.0		
					e8	109.9	0.0		
					e10	380.4	0.0		

	#12,5	74,2	0,0
	#16	6,7	0,0
	Total:	799,4	78,5

OBSERVAÇÕES

- . Medidas das cotas em cm (exceto onde indicado)
- . Verificar medidas na obra
- . Molhar as formas antes da concretagem
- . Usar espaçadores para garantir recobrimento do aço
- . Nas armações negativas das lajes – usar “carangueijos”
- . Cura mínima = 7 dias
- . Descumbrimento(formas) = mínimo de 28 dias
- . Todas as peças de concreto em contato com o solo devem ser executadas sobre lastro de concreto magro $c/ e=5\text{cm}$
- . Em caso de dúvidas, contactar o Calculista

Classe de Agresiv.: C II	Ec(5600 fck):	Agreg. Graudo: Brita 0
CONCRETO(fck): 25 MPa	AÇO: CA 50	SLUMP (mm): 100+-10
Fator A/C (max.): < 0.60	FORMAS: C. Res.	ADITIVO:

Nº	DATA	DESCRIÇÃO	VISTO	
QUADRO DE REVISÕES				
PISO				
PROJETO EXECUTIVO DE ESTRUTURAL			 UFVJM	
PAVILHÃO DE SALAS DE AULA II CAMPUS UNAI-JANAUBA RODOVIA KM 267, RM 508, FIM 5000 - ALTO DA JACUÍTA - DIAMANTINÓPOLIS				
PROPOSTA POR:	UNIVERSIDADE FEDERAL DOS VALES DO JUAZEIRINHONHA E MUCURI	ORÇ		R\$ 688.315/0001-57
TÍTULO				
ARMADAÇÃO DE VIGAS - SEGUNDO PISO - 04				
AUTOR PROJETO ARQUITETÔNICO / RCI				
ALESSANDRO DE OLIVEIRA ALVES RI: ENG. CIVIL, BACH. EM ENGENHARIA CIVIL Nº 1772-5/MG RUA S. N.º 12, VILA BRANCOLO, DIAMANTINÓPOLIS FONE: (35) 3233-1277 / 3033-8834				
VERSÃO:	DATA:	AUTOCAD:	FOLHA:	
VERSÃO 1	16.10.2012		35	
ARQUIVO: PAVILHÃO DE SALAS/P2B-PTE-1 2 O2 (PÁVLOS) - EST				