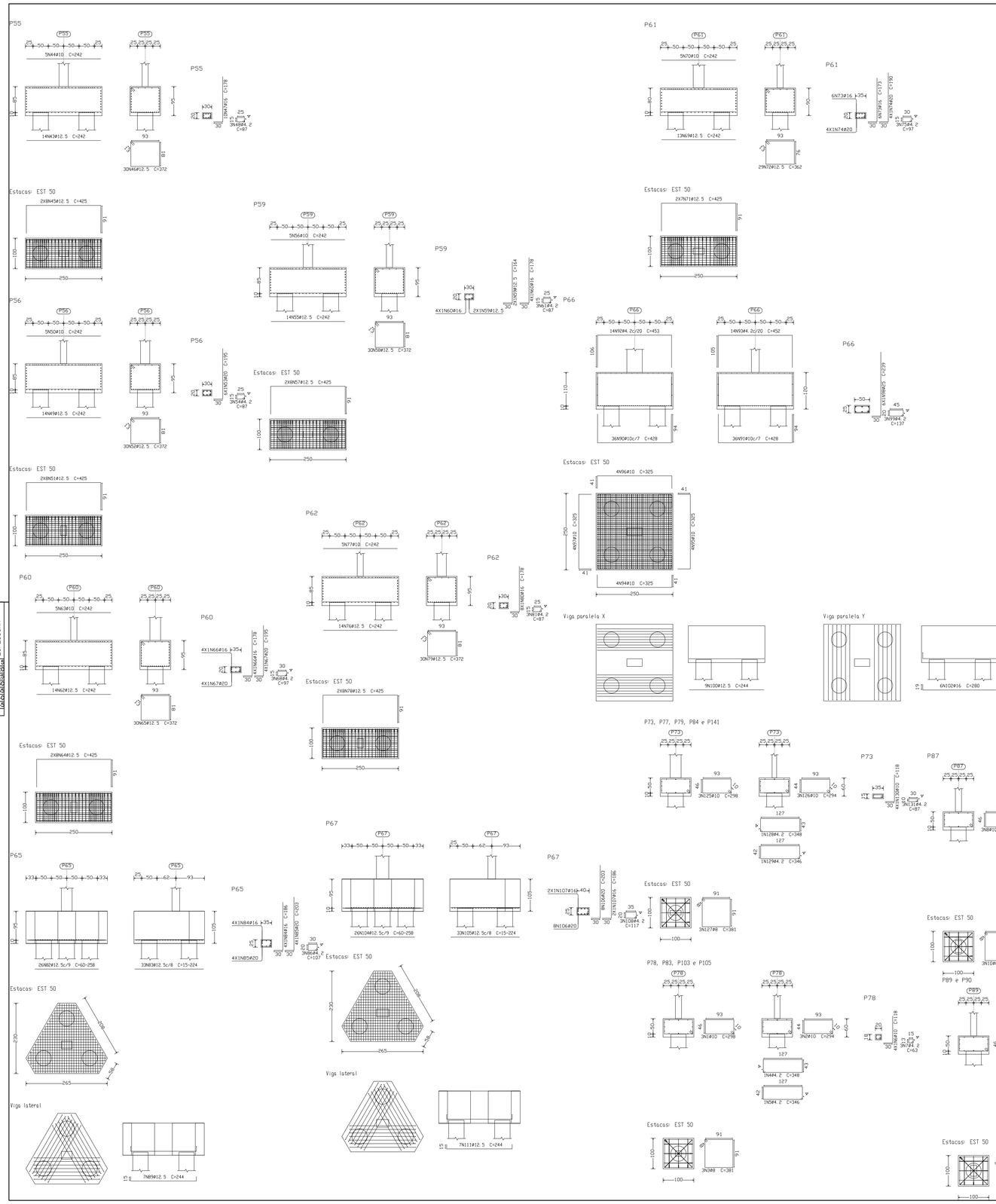

COR DO LAYER	PENA Nº	ESPESSURA
1	7	0,15
2	7	0,20
3	7	0,25
4	7	0,30
5	7	0,35
6	7	0,40
7	7	0,45

Elemento	Pos.	Diam.	Q.	Dob (cm)	Reta (cm)	Dob (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
P78=P83=P103 P105	1	#10	3		298		298	894	5.6	
	2	#10	3		294		294	882	5.5	
	3	#8	3		381		381	1143	4.3	
	4	#4.2	1		348		348	348		0.4
	5	#4.2	1		346		346	346		0.4
	6	#10	4	30	88		118	472	3.0	
	7	#4.2	3		63		63	189		0.2
							Total+10%		20.5	1.1
								(x4):	82.0	4.4
P87	8	#10	3		298		298	894	5.6	
	9	#10	3		294		294	882	5.5	
	10	#8	3		381		381	1143	4.3	
	11	#4.2	1		348		348	348		0.4
	12	#4.2	1		346		346	346		0.4
	13	#10	4	30	88		118	472	3.0	
	14	#16	4	30	112		142	568	8.9	
	15	#4.2	3		107		107	321		0.4
							Total+10%		30.3	1.3
P88	16	#12.5	14		242		242	3388	33.2	
	17	#10	5		242		242	1210	7.6	
	18	#12.5	16		425		425	6800	66.7	
	19	#12.5	30		372		372	11160	109.5	
	20	#10	6	30	123		153	918	5.8	
	21	#4.2	3		117		117	351		0.4
							Total+10%		245.1	0.4
P89=P90	22	#10	3		298		298	894	5.6	
	23	#10	3		294		294	882	5.5	
	24	#8	3		381		381	1143	4.3	
	25	#4.2	1		348		348	348		0.4
	26	#4.2	1		346		346	346		0.4
	27	#10	4	30	88		118	472	3.0	
	28	#4.2	3		97		97	291		0.3
							Total+10%		20.5	1.2
								(x2):	41.0	2.4
P91=P93=P94	29	#10	3		298		298	894	5.6	
	30	#10	3		294		294	882	5.5	
	31	#8	3		381		381	1143	4.3	
	32	#4.2	1		348		348	348		0.4
	33	#4.2	1		346		346	346		0.4
	34	#10	4	30	88		118	472	3.0	
	35	#4.2	3		67		67	201		0.2
							Total+10%		20.5	1.1
								(x3):	61.5	3.3
P127=P142=P146	36	#10	3		298		298	894	5.6	
	37	#10	3		294		294	882	5.5	
	38	#8	3		381		381	1143	4.3	
	39	#4.2	1		348		348	348		0.4
	40	#4.2	1		346		346	346		0.4
	41	#12.5	6	30	99		129	774	7.6	
	42	#4.2	3		87		87	261		0.3
							Total+10%		25.5	1.2
								(x3):	76.5	3.6

Elemento	Pos.	Diam.	Q.	Dob (cm)	Reta (cm)	Dob (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
P55	43	#12.5	14		242		242	3388	33.2	
	44	#10	5		242		242	1210	7.6	
	45	#12.5	16		425		425	6800	66.7	
	46	#12.5	30		372		372	11160	109.5	
	47	#16	10	30	148		178	1780	27.9	
	48	#4.2	3		87		87	261		0.3
							Total+10%		269.4	0.3
P56	49	#12.5	14		242		242	3388	33.2	
	50	#10	5		242		242	1210	7.6	
	51	#12.5	16		425		425	6800	66.7	
	52	#12.5	30		372		372	11160	109.5	
	53	#20	6	30	165		195	1170	28.9	
	54	#4.2	3		87		87	261		0.3
							Total+10%		270.5	0.3
P59	55	#12.5	14		242		242	3388	33.2	
	56	#10	5		242		242	1210	7.6	
	57	#12.5	16		425		425	6800	66.7	
	58	#12.5	30		372		372	11160	109.5	
	59	#12.5	2	30	134		164	328	3.2	
	60	#16	4	30	148		178	712	11.2	
	61	#4.2	3		87		87	261		0.3
							Total+10%		254.5	0.3
P60	62	#12.5	14		242		242	3388	33.2	
	63	#10	5		242		242	1210	7.6	
	64	#12.5	16		425		425	6800	66.7	
	65	#12.5	30		372		372	11160	109.5	
	66	#16	4	30	148		178	712	11.2	
	67	#20	4	30	165		195	780	19.3	
	68	#4.2	3		97		97	291		0.3
							Total+10%		272.3	0.3
P61	69	#12.5	13		242		242	3146	30.9	
	70	#10	5		242		242	1210	7.6	
	71	#12.5	14		425		425	5950	58.4	
	72	#12.5	24		362		362	10496	103.0	
	73	#16	6	30	143		173	1038	16.3	
	74	#20	4	30	160		190	760	18.8	
	75	#4.2	3		97		97	291		0.3
							Total+10%		258.5	0.3
P62	76	#12.5	14		242		242	3388	33.2	
	77	#10	5		242		242	1210	7.6	
	78	#12.5	16		425		425	6800	66.7	
	79	#12.5	30		372		372	11160	109.5	
	80	#16	8	30	148		178	1424	22.4	
	81	#4.2	3		87		87	261		0.3
							Total+10%		263.3	0.3
P65	82	#12.5	26		VAR.		VAR.	4496	44.1	
	83	#12.5	33		VAR.		VAR.	4950	48.6	
	84	#16	4	30	156		186	744	11.7	
	85	#20	4	30	173		203	812	20.1	
	86	#4.2	3		107		107	321		0.4
	87	#12.5	7	15	214	15	244	1708	16.8	
	88	#12.5	7	15	214	15	244	1708	16.8	
	89	#12.5	7	15	214	15	244	1708	16.8	
							Total+10%		196.4	0.4
P66	90	#10	36	94	240	94	428	15408	96.8	
	91	#10	36	94	240	94	428	15408	96.8	
	92	#4.2	14	106	241	106	453	6342		6.9
	93	#4.2	14	105	242	105	452	6328		6.9
	94	#10	4	41	243	41	325	1300	8.2	
	95	#10	4	41	243	41	325	1300	8.2	
	96	#10	4	41	243	41	325	1300	8.2	
	97	#10	4	41	243	41	325	1300	8.2	
	98	#25	6	30	209		239	1434	56.3	
	99	#4.2	3		137		137	411		0.4
	100	#12.5	9		244		244	2196	21.5	
	101	#12.5	9		244		244	2196	21.5	
	102	#16	6	19	242	19	280	1680	26.4	
	103	#16	6	19	242	19	280	1680	26.4	
							Total+10%		416.4	15.6
P67	104	#12.5	26		VAR.		VAR.	4496	44.1	
	105	#12.5	33		VAR.		VAR.	4950	48.6	
	106	#20	8	30	173		203	1624	40.2	
	107	#16	2	30	156		186	372	5.8	
	108	#4.2	3		117		117	351		0.4
	109	#12.5	7	15	214	15	244	1708	16.8	
	110	#12.5	7	15	214	15	244	1708	16.8	
	111	#12.5	7	15	214	15	244	1708	16.8	
							Total+10%		208.0	0.4
P69	112	#12.5	14		242		242	3388	33.2	
	113	#10	5		242		242	1210	7.6	
	114	#12.5	16		425		425	6800	66.7	
	115	#12.5	30		372		372	11160	109.5	
	116	#16	4	30	148		178	712	11.2	
	117	#20	4	30	165		195	780	19.3	
	118	#4.2	3		97		97	291		0.3
							Total+10%		272.3	0.3
P70	119	#12.5	14		242		242	3388	33.2	
	120	#10	5		242		242	1210	7.6	
	121	#12.5	16		425		425	6800	66.7	
	122	#12.5	30		372		372	11160	109.5	
	123	#16	10	30	148		178	1780	27.9	
	124	#4.2	3		97		97	291		0.3
							Total+10%		269.4	0.3
P73=P77=P79=P84 P141	125	#10	3		298		298	894	5.6	
	126	#10	3		294		294	882	5.5	
	127	#8	3		381		381	1143	4.3	
	128	#4.2	1		348		348	348		0.4
	129	#4.2	1		346		346	346		0.4
	130	#10	4	30	88		118	472	3.0	
	131	#4.2	3		87		87	261		0.3
							Total+10%		20.5	1.2
								(x5):	102.5	6.0
P74=P82=P109	132	#10	3		298		298	894	5.6	
	133	#10	3		294		294	882	5.5	
	134	#8	3		381		381	1143	4.3	
	135	#4.2	1		348		348	348		0.4
	136	#4.2	1		346		346	346		0.4
	137	#10	6	30	88		118	708	4.4	
	138	#4.2	3		87		87	261		0.3
							Total+10%		20.0	1.2
								(x3):	60.0	3.6
							#4.2:	0.0		43.8
							ø8:	104.7	0.0	
							#10:	651.3	0.0	
							#12.5:	2444.5	0.0	
							#16:	228.0	0.0	
							ø20:	161.4	0.0	
							ø25:	62.0	0.0	
							Total:	3631.9	0.0	43.8

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 "caranguejos"
. Cura mínima = 7 dias
. Descimbramento(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=5cm
. Em caso de dúvidas, contactar o Calculista

Classe de Agresiv.: C II	Ec(5600 √fck):	Agreg. Graudo:	Brita 01
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

FASE: PROJETO EXECUTIVO DE ESTRUTURAL

PAVILHÃO DE SALAS DE AULA II
CAMPUS UNAI - JANAUBA

RODOVIA MG 307, km 005, Nº 5000 - ALTO DA JACUBA - DIAMANTINA/MG

PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI — CNPJ: 12.888.515/0001-57

UFVJM

TÍTULO: ARMAÇÃO DE BLOCOS DE COROAM./03.FUND.

AUTOR/RESPONSÁVEL ARQUITETÔNICO / RTI:
ALESSANDRO DE OLIVEIRA ALVES
RT: ENG. CIVIL ALESSANDRO DE OLIVEIRA ALVES - CREA: 137.372-D/MG
RUA: PRAÇA DO JACARÉ, 115 - CENTRO - JANAUBA - MG
FONES: (38) 3632-1257 / 9822-8024

VERSÃO:	DATA:	AUTOCAD:	FOLHA:
VERSÃO 1	30.09.2011		05

ARQUIVO: PAVILHÃO DE AULAS/PAA2-PTB-121002 PAV(03) - EST.