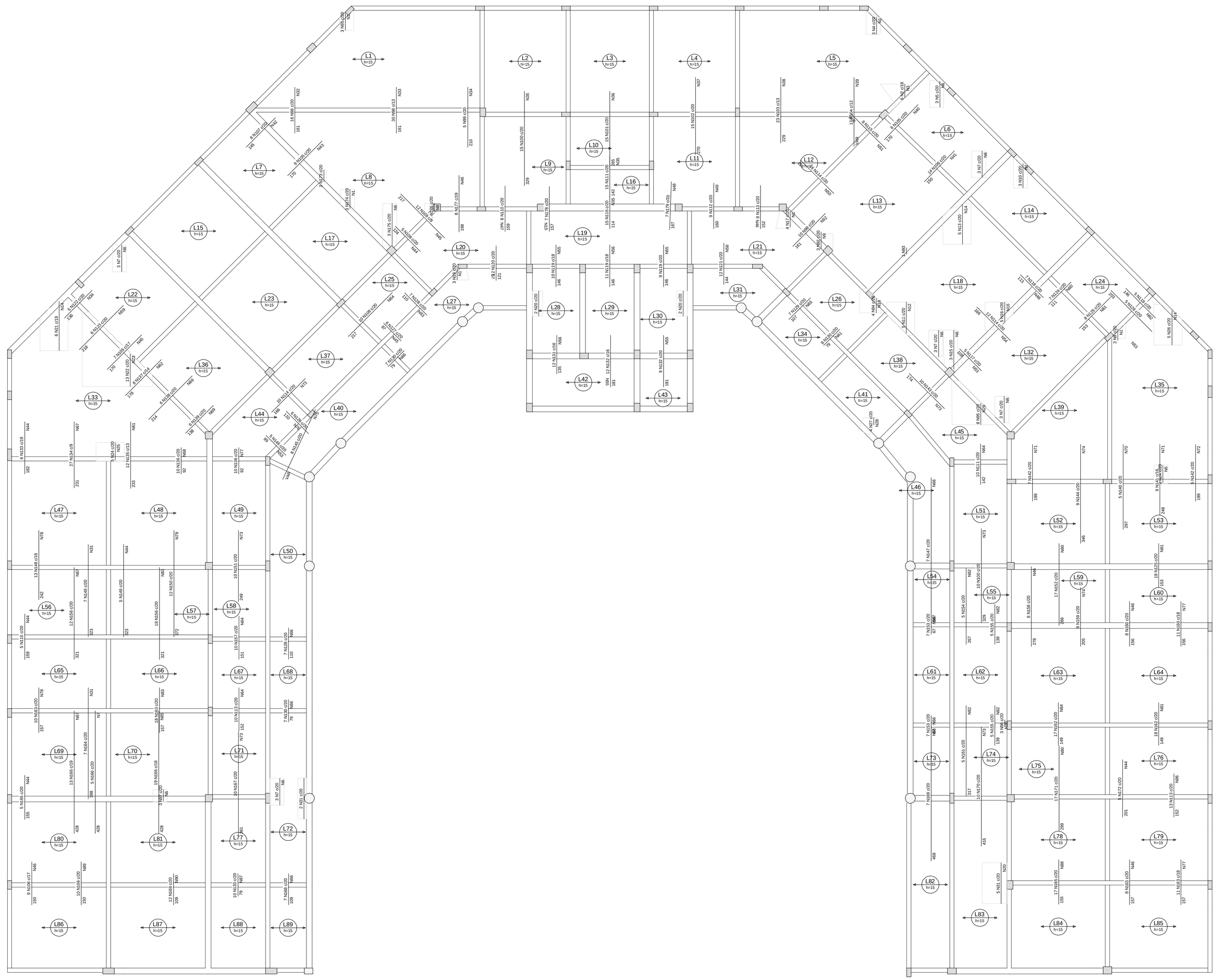
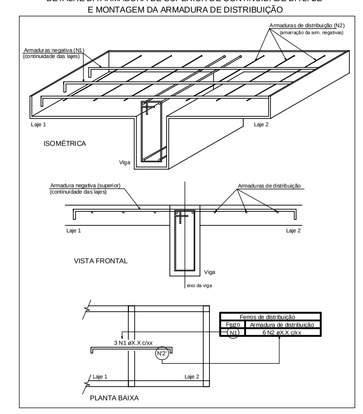


Armação negativa das lajes do pavimento 2 (Eixo Y)
escala 1:75

Ferros de distribuição	
Ferro	Armadura de distribuição
N125	5 N93 ø5.0 c/20 C=UNIF
N126	11 N63 ø5.0 c/20 C=107
N127	5 N85 ø5.0 c/20 C=107
N128	5 N85 ø5.0 c/20 C=111
N129	6 N93 ø5.0 c/20 C=144
N109	11 N64 ø5.0 c/20 C=200
N129	6 N95 ø5.0 c/20 C=146
N130	4 N91 ø5.0 c/20 C=154
N130	4 N96 ø5.0 c/20 C=145
N131	7 N58 ø5.0 c/20 C=190
N132	9 N55 ø5.0 c/20 C=185
N132	9 N55 ø5.0 c/20 C=185
N133	10 N44 ø5.0 c/20 C=106
N134	12 N67 ø5.0 c/20 C=240
N135	12 N61 ø5.0 c/20 C=154
N136	12 N61 ø5.0 c/20 C=154
N137	9 N82 ø5.0 c/20 C=108
N138	11 N69 ø5.0 c/20 C=125
N139	7 N88 ø5.0 c/20 C=125
N140	15 N70 ø5.0 c/20 C=109
N141	13 N71 ø5.0 c/20 C=147
N142	10 N72 ø5.0 c/20 C=101
N114	9 N73 ø5.0 c/20 C=205
N143	9 N73 ø5.0 c/20 C=205
N142	10 N71 ø5.0 c/20 C=147
N144	18 N74 ø5.0 c/20 C=188
N145	14 N75 ø5.0 c/20 C=NAR
N146	5 N53 ø5.0 c/20 C=107
N146	5 N53 ø5.0 c/20 C=107
N138	5 N77 ø5.0 c/20 C=103
N111	8 N64 ø5.0 c/20 C=200
N147	28 N88 ø5.0 c/20 C=145
N148	13 N78 ø5.0 c/20 C=204
N149	17 N31 ø5.0 c/20 C=142
N149	17 N44 ø5.0 c/20 C=106
N150	19 N79 ø5.0 c/20 C=NAR
N151	13 N73 ø5.0 c/20 C=205
N128	6 N98 ø5.0 c/20 C=145
N100	17 N73 ø5.0 c/20 C=205
N152	15 N80 ø5.0 c/20 C=138
N125	8 N91 ø5.0 c/20 C=358
N153	14 N83 ø5.0 c/20 C=NAR
N154	5 N77 ø5.0 c/20 C=103
N155	7 N82 ø5.0 c/20 C=100
N110	8 N44 ø5.0 c/20 C=106
N156	16 N67 ø5.0 c/20 C=240
N156	16 N85 ø5.0 c/20 C=355
N157	8 N64 ø5.0 c/20 C=200
N158	14 N45 ø5.0 c/20 C=155
N159	11 N74 ø5.0 c/20 C=188
N160	8 N46 ø5.0 c/20 C=155
N160	8 N77 ø5.0 c/20 C=203
N153	4 N98 ø5.0 c/20 C=NAR
N161	16 N82 ø5.0 c/20 C=100
N162	7 N82 ø5.0 c/20 C=100
N163	14 N83 ø5.0 c/20 C=NAR
N162	8 N91 ø5.0 c/20 C=358
N163	8 N78 ø5.0 c/20 C=204
N164	20 N31 ø5.0 c/20 C=142
N163	8 N82 ø5.0 c/20 C=NAR
N113	8 N64 ø5.0 c/20 C=200
N130	4 N98 ø5.0 c/20 C=145
N165	8 N44 ø5.0 c/20 C=106
N166	22 N67 ø5.0 c/20 C=240
N166	22 N7 ø5.0 c/20 C=93
N167	22 N85 ø5.0 c/20 C=355
N167	18 N73 ø5.0 c/20 C=205
N168	7 N80 ø5.0 c/20 C=138
N169	21 N82 ø5.0 c/20 C=NAR
N171	11 N83 ø5.0 c/20 C=NAR
N172	10 N44 ø5.0 c/20 C=106
N173	8 N88 ø5.0 c/20 C=352
N130	4 N97 ø5.0 c/20 C=208
N165	8 N88 ø5.0 c/20 C=340
N163	8 N46 ø5.0 c/20 C=155
N163	8 N77 ø5.0 c/20 C=203
N106	8 N46 ø5.0 c/20 C=155
N106	8 N46 ø5.0 c/20 C=191
N168	6 N90 ø5.0 c/20 C=242

Ferros de distribuição	
Ferro	Armadura de distribuição
N01	3 N1 ø5.0 c/20 C=NAR
N2	3 N3 ø5.0 c/20 C=NAR
N3	3 N5 ø5.0 c/20 C=NAR
N5	5 N6 ø5.0 c/20 C=49
N7	5 N6 ø5.0 c/20 C=49
N174	4 N1 ø5.0 c/20 C=NAR
N175	8 N6 ø5.0 c/20 C=49
N176	2 N9 ø5.0 c/20 C=NAR
N82	3 N9 ø5.0 c/20 C=NAR
N03	5 N1 ø5.0 c/20 C=NAR
N11	6 N12 ø5.0 c/20 C=NAR
N7	5 N6 ø5.0 c/20 C=49
N13	7 N14 ø5.0 c/20 C=NAR
N15	7 N6 ø5.0 c/20 C=49
N16	4 N16 ø5.0 c/20 C=NAR
N17	5 N6 ø5.0 c/20 C=49
N84	3 N18 ø5.0 c/20 C=NAR
N19	3 N1 ø5.0 c/20 C=NAR
N7	5 N6 ø5.0 c/20 C=49
N21	9 N14 ø5.0 c/20 C=NAR
N22	6 N23 ø5.0 c/20 C=NAR
N24	3 N25 ø5.0 c/20 C=96
N9	2 N1 ø5.0 c/20 C=NAR
N26	8 N14 ø5.0 c/20 C=NAR
N24	3 N6 ø5.0 c/20 C=49
N27	2 N29 ø5.0 c/20 C=NAR
N85	4 N29 ø5.0 c/20 C=NAR
N89	2 N31 ø5.0 c/20 C=40
N7	5 N6 ø5.0 c/20 C=49
N7	5 N6 ø5.0 c/20 C=49
N31	8 N35 ø5.0 c/20 C=87
N88	8 N32 ø5.0 c/20 C=316
N88	8 N33 ø5.0 c/20 C=302
N99	11 N34 ø5.0 c/20 C=105
N100	17 N35 ø5.0 c/20 C=260
N101	14 N36 ø5.0 c/20 C=305
N102	14 N37 ø5.0 c/20 C=293
N103	12 N38 ø5.0 c/20 C=302
N104	12 N39 ø5.0 c/20 C=NAR
N105	9 N40 ø5.0 c/20 C=123
N106	8 N41 ø5.0 c/20 C=282
N107	8 N42 ø5.0 c/20 C=107
N107	8 N43 ø5.0 c/20 C=107
N108	7 N44 ø5.0 c/20 C=106
N109	11 N45 ø5.0 c/20 C=111
N177	12 N46 ø5.0 c/20 C=155
N110	8 N47 ø5.0 c/20 C=195
N178	8 N15 ø5.0 c/20 C=137
N111	8 N35 ø5.0 c/20 C=260
N179	9 N48 ø5.0 c/20 C=132
N112	8 N49 ø5.0 c/20 C=170
N113	8 N46 ø5.0 c/20 C=135
N114	9 N50 ø5.0 c/20 C=318
N115	8 N51 ø5.0 c/20 C=NAR
N88	6 N52 ø5.0 c/20 C=196
N116	8 N53 ø5.0 c/20 C=NAR
N117	6 N53 ø5.0 c/20 C=207
N114	9 N54 ø5.0 c/20 C=243
N118	6 N48 ø5.0 c/20 C=132
N119	8 N55 ø5.0 c/20 C=185
N119	8 N56 ø5.0 c/20 C=190
N119	8 N55 ø5.0 c/20 C=185
N120	6 N57 ø5.0 c/20 C=233
N121	8 N58 ø5.0 c/20 C=235
N122	7 N24 ø5.0 c/20 C=105
N123	11 N59 ø5.0 c/20 C=124
N105	9 N46 ø5.0 c/20 C=111
N124	6 N60 ø5.0 c/20 C=149

DETALHE DA ARMADURA DE SUPERIOR DE CONTINUIDADE DA LAJE
E MONTAGEM DA ARMADURA DE DISTRIBUIÇÃO



Relação do aço

Negativos Y

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
	88	5.0	8	340	2720
	89	5.0	8	191	1528
	90	5.0	6	242	1452
CA50	91	6.3	3	VAR	VAR
	92	6.3	3	VAR	VAR
	93	6.3	1	VAR	VAR
	94	6.3	4	VAR	VAR
	95	6.3	8	VAR	VAR
	96	6.3	3	22	66
	97	6.3	3	40	120
	98	6.3	56	161	9016
	99	6.3	5	210	1050
	100	6.3	25	329	8225
	101	6.3	15	265	3975
	102	6.3	15	270	4050
	103	6.3	23	229	5267
	104	6.3	17	VAR	VAR
	105	6.3	22	170	3740
	106	6.3	33	150	4950
	107	6.3	8	145	1160
	108	6.3	5	124	620
	109	6.3	22	217	4774
	110	6.3	13	159	2067
	111	6.3	25	142	3550
	112	6.3	9	160	1440
	113	6.3	31	152	4712
	114	6.3	38	166	6308
	115	6.3	8	VAR	VAR
	116	6.3	15	114	1710
	117	6.3	5	108	540
	118	6.3	7	113	791
	119	6.3	35	146	5110
	120	6.3	12	121	1452
	121	6.3	12	144	1728
	122	6.3	5	136	680
	123	6.3	6	218	1308
	124	6.3	7	111	777
	125	6.3	26	153	3978
	126	6.3	5	203	1015
	127	6.3	6	87	522
	128	6.3	20	110	2200
	129	6.3	7	107	749
	130	6.3	32	79	2528
	131	6.3	12	135	1620
	132	6.3	21	181	3801
	133	6.3	6	182	1092
	134	6.3	27	231	6237
	135	6.3	12	233	2796
	136	6.3	20	92	1840
	137	6.3	8	178	1424
	138	6.3	6	214	1284
	139	6.3	6	138	828
	140	6.3	5	297	1485
	141	6.3	9	248	2232
	142	6.3	12	199	2388
	143	6.3	10	174	1740
	144	6.3	9	346	3114
	145	6.3	8	VAR	VAR
	146	6.3	5	99	495
	147	6.3	7	507	3549
	148	6.3	13	242	3146
	149	6.3	12	323	3876
	150	6.3	12	372	4464
	153	6.3	10	249	2490
	152	6.3	17	286	4862
	153	6.3	14	67	938
	154	6.3	5	267	1335
	155	6.3	10	139	1390
	156	6.3	30	321	9630
	157	6.3	10	151	1510
	158	6.3	8	278	2224
	159	6.3	9	205	1845
	160	6.3	19	156	2964
	161	6.3	5	317	1585
	162	6.3	35	149	5215
	163	6.3	47	157	7379
	164	6.3	7	388	2716
	165	6.3	22	155	3410
	166	6.3	37	428	15836
	167	6.3	10	361	3610
	168	6.3	19	109	2071
	169	6.3	7	468	3276
	170	6.3	10	416	4160
	171	6.3	17	299	5083
	172	6.3	5	201	1005
	173	8.0	2	VAR	VAR
	174	8.0	3	VAR	VAR
	175	8.0	3	148	444
	176	8.0	3	VAR	VAR
	177	8.0	8	198	1584
	178	8.0	7	157	1099
	179	8.0	7	167	1169

Relação do aço

Negativos Y

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	23	VAR	VAR
	2	5.0	6	VAR	VAR
	3	5.0	3	VAR	VAR
	4	5.0	3	VAR	VAR
	5	5.0	3	91	273
	6	5.0	50	49	2450
	7	5.0	37	93	3441
	8	5.0	2	VAR	VAR
	9	5.0	6	VAR	VAR
	10	5.0	3	VAR	VAR
	11	5.0	5	VAR	VAR
	12	5.0	6	VAR	VAR
	13	5.0	5	VAR	VAR
	14	5.0	22	VAR	VAR
	15	5.0	11	137	1507
	16	5.0	9	VAR	VAR
	17	5.0	4	VAR	VAR
	18	5.0	3	VAR	VAR
	19	5.0	3	VAR	VAR
	20	5.0	12	87	1044
	21	5.0	6	VAR	VAR
	22	5.0	13	VAR	VAR
	23	5.0	6	VAR	VAR
	24	5.0	8	61	488
	25	5.0	3	98	294
	26	5.0	5	VAR	VAR
	27	5.0	4	VAR	VAR
	28	5.0	2	VAR	VAR
	29	5.0	4	VAR	VAR
	30	5.0	2	50	100
	31	5.0	44	142	6248
	32	5.0	8	316	2528
	33	5.0	8	392	3136
	34	5.0	18	105	1890
	35	5.0	31	290	8990
	36	5.0	14	305	4270
	37	5.0	14	293	4102
	38	5.0	12	302	3624
	39	5.0	12	VAR	VAR
	40	5.0	9	123	1107
	41	5.0	8	282	2256
	42	5.0	8	167	1336
	43	5.0	9	177	1593
	44	5.0	60	106	6360
	45	5.0	25	111	2775
	46	5.0	56	155	8680
	47	5.0	8	165	1320
	48	5.0	15	132	1980
	49	5.0	8	170	1360
	50	5.0	9	318	2862
	51	5.0	9	VAR	VAR
	52	5.0	8	195	1560
	53	5.0	22	107	2354
	54	5.0	9	243	2187
	55	5.0	34	185	6290
	56	5.0	15	190	2850
	57	5.0	6	233	1398
	58	5.0	8	235	1880
	59	5.0	11	124	1364
	60	5.0	6	149	894
	61	5.0	24	154	3696
	62	5.0	17	108	1836
	63	5.0	6	144	864
	64	5.0	35	200	7000
	65	5.0	6	146	876
	66	5.0	78	145	11310
	67	5.0	50	240	12000
	68	5.0	5	199	995
	69	5.0	18	125	2250
	70	5.0	15	109	1635
	71	5.0	23	147	3381
	72	5.0	10	101	1010
	73	5.0	87	205	17835
	74	5.0	29	188	5452
	75	5.0	14	VAR	VAR
	76	5.0	6	112	672
	77	5.0	21	203	4263
	78	5.0	21	204	4284
	79	5.0	19	245	4655
	80	5.0	30	338	10140
	81	5.0	16	358	5728
	82	5.0	44	100	4400
	83	5.0	24	355	8520
	84	5.0	8	343	2744
	85	5.0	22	350	7700
	86	5.0	8	252	2016
	87	5.0	4	208	832

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	2309.3	621.6
	8.0	46.7	20.2
CA60	5.0	2468	418.4
PESO TOTAL			
CA50	641.8		
CA60	418.4		

Nº:	DATA	RESPONSÁVEL	DESCRIÇÃO DA REVISÃO:

FASE: PROJETO ESTRUTURAL

OBSERVAÇÕES: CONFERIR MEDIDAS NA OBRA

NUGEO - NÚCLEO DE GEOCIÊNCIAS
CAMPUS DIAMANTINA
RODOVIA MG 367, KM 583, Nº 5000 - ALTO DA JACUBA - DIAMANTINA/MG

PROPRIETÁRIO: UNIVERSIDADE FEDERAL DOS VALES DO JEQUITINHONHA E MUCURI — CNPJ 16.888.315/0001-57

UFVJM

TÍTULO: ARMADURA NEGATIVA DAS LAJES DO 2º PAVIMENTO- EIXO Y

AUTOR PROJETO ESTRUTURAL / RT:

MACEDO SIQUEIRA PROJETOS & ENGENHARIA LTDA-ME
CNPJ: 09.566.686/0001-57
RT: ENG. CIVIL: ANTÔNIO AUGUSTO DE MACEDO – CREA: 81.746/DMG
RUA MARGARIDA CORTONA Nº799, CANAAN, SETE LAGOAS/MG
FONES: (31) 3771-0554 / 9997-3184

A. MACEDO Projetos e Engenharia
www.amacedoengenharia.com.br
Fones: (31)3771-0554 / 9997-3184

DETALHAMENTO:

VERSÃO:	DATA:	AUTOCAD:	FOLHA:
VERSAO 1	22.08.2011		64/71

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