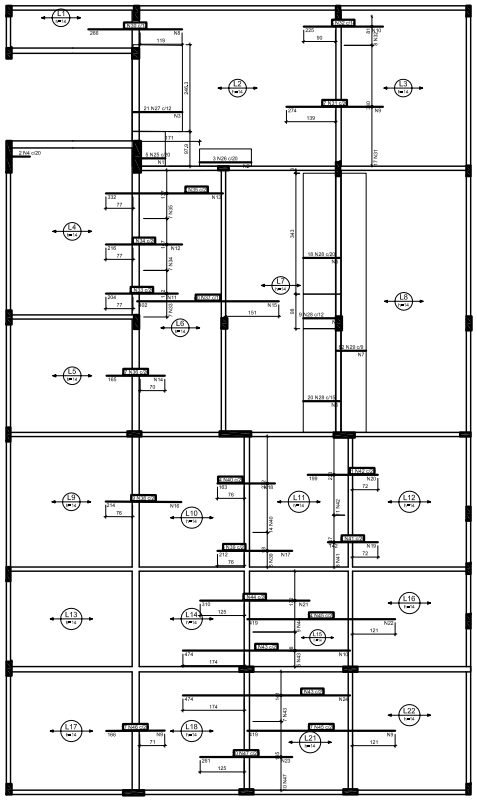


Armação negativa das lajes do pavimento NÍVEL +5,27 (Eixo X)

escala 1:50

Ferros de distribuição	
Ferro	Armadura de distribuição
N25	5 N1 ø5,0 c/20 C=90
N26	8 N2 ø5,0 c/20 C=88
N27	7 N3 ø5,0 c/20 C=945
N28	6 N5 ø5,0 c/20 C=294
N29	8 N1 ø5,0 c/20 C=90
N28	6 N6 ø5,0 c/20 C=843
N29	5 N7 ø5,0 c/20 C=735
N33	14 N8 ø5,0 c/20 C=121
N31	14 N9 ø5,0 c/20 C=249
N32	12 N10 ø5,0 c/20 C=106
N33	11 N11 ø5,0 c/20 C=132
N34	11 N12 ø5,0 c/20 C=147
N35	17 N13 ø5,0 c/20 C=52
N36	9 N14 ø5,0 c/20 C=233
N37	21 N15 ø5,0 c/20 C=90
N38	11 N16 ø5,0 c/20 C=82
N39	11 N17 ø5,0 c/20 C=94
N40	9 N18 ø5,0 c/20 C=278
N41	8 N19 ø5,0 c/20 C=153
N42	10 N20 ø5,0 c/20 C=229
N43	24 N21 ø5,0 c/20 C=178
N44	24 N22 ø5,0 c/20 C=294
N45	21 N23 ø5,0 c/20 C=294
N46	9 N9 ø5,0 c/20 C=90
N47	13 N3 ø5,0 c/20 C=931
N43	24 N24 ø5,0 c/20 C=402
N44	21 N9 ø5,0 c/20 C=343

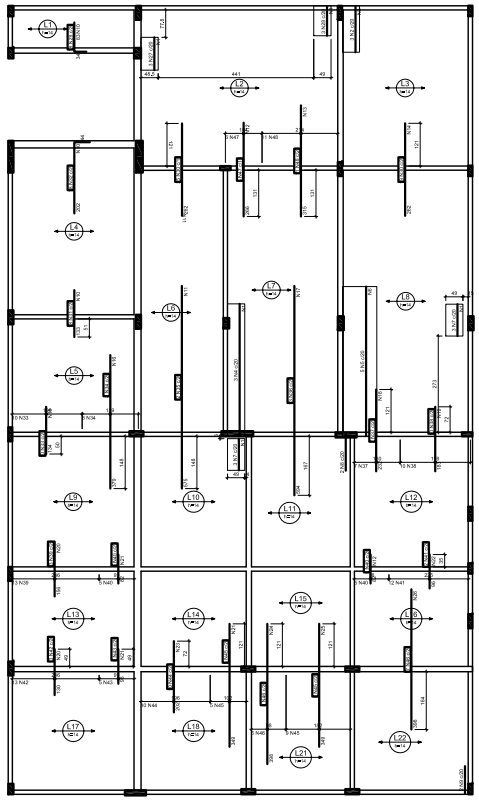
Relação do aço

Negativos X

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	11	99	1079
	2	5,0	8	49	392
	3	5,0	7	245	1715
	4	5,0	2	65	130
	5	5,0	6	294	1764
	6	5,0	8	343	2058
	7	5,0	5	735	3675
	8	5,0	14	121	1694
	9	5,0	44	349	15356
	10	5,0	36	106	3816
	11	5,0	11	132	1452
	12	5,0	11	147	1617
	13	5,0	17	52	884
	14	5,0	9	233	2097
	15	5,0	21	90	1890
	16	5,0	11	382	4202
	17	5,0	11	104	1144
	18	5,0	9	278	2502
	19	5,0	8	153	1224
	20	5,0	10	229	2290
	21	5,0	16	178	2946
	22	5,0	21	294	6994
	23	5,0	13	201	2613
	24	5,0	24	149	3576
CA50	25	6,3	5	92	460
	26	6,3	3	147	441
	27	6,3	21	140	2940
	28	6,3	47	104	4888
	29	6,3	62	95	6970
	30	6,3	7	266	1862
	31	6,3	17	274	4658
	32	6,3	9	225	1800
	33	6,3	7	234	1426
	34	6,3	7	216	1512
	35	6,3	7	332	2324
	36	6,3	17	165	2805
	37	6,3	40	402	16080
	38	6,3	10	214	4066
	39	6,3	5	212	1060
	40	6,3	14	81	1134
	41	6,3	8	162	1138
	42	6,3	11	199	2185
	43	6,3	12	474	5689
	44	6,3	9	310	2790
	45	6,3	21	419	12588
	46	6,3	17	166	2822
	47	6,3	10	261	2610

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6,3	855	231
CA60	5,0	623,2	139,7
PESO TOTAL (kg)			
CA50	231		
CA60	139,7		



Armação negativa das lajes do pavimento NÍVEL +5,27 (Eixo Y)

escala 1:50

Ferros de distribuição	
Ferro	Armadura de distribuição
N27	5 N1 ø5,0 c/20 C=90
N28	5 N1 ø5,0 c/20 C=90
N2	7 N2 ø5,0 c/20 C=88
N4	19 N1 ø5,0 c/20 C=90
N5	22 N6 ø5,0 c/20 C=843
N7	5 N7 ø5,0 c/20 C=735
N7	5 N1 ø5,0 c/20 C=90
N29	5 N10 ø5,0 c/20 C=106
N30	13 N11 ø5,0 c/20 C=132
N47	14 N12 ø5,0 c/20 C=147
N48	10 N13 ø5,0 c/20 C=52
N30	14 N14 ø5,0 c/20 C=233
N31	7 N15 ø5,0 c/20 C=90
N32	11 N16 ø5,0 c/20 C=82
N33	7 N15 ø5,0 c/20 C=90
N34	19 N18 ø5,0 c/20 C=278
N35	25 N11 ø5,0 c/20 C=121
N36	30 N17 ø5,0 c/20 C=249
N37	12 N19 ø5,0 c/20 C=106
N38	10 N19 ø5,0 c/20 C=132
N39	9 N20 ø5,0 c/20 C=229
N40	5 N21 ø5,0 c/20 C=178
N41	5 N22 ø5,0 c/20 C=294
N41	5 N23 ø5,0 c/20 C=294
N42	11 N24 ø5,0 c/20 C=402
N43	11 N21 ø5,0 c/20 C=178
N44	11 N23 ø5,0 c/20 C=294
N45	15 N21 ø5,0 c/20 C=178
N46	20 N26 ø5,0 c/20 C=178
N46	18 N25 ø5,0 c/20 C=166
N46	20 N26 ø5,0 c/20 C=166

Relação do aço

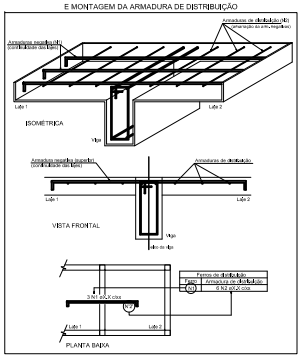
Negativos Y

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5,0	23	49	1813
	2	5,0	3	130	390
	3	5,0	7	49	338
	4	5,0	3	374	1122
	5	5,0	5	423	2115
	6	5,0	22	97	2134
	7	5,0	9	60	540
	8	5,0	2	107	214
	9	5,0	2	78	156
	10	5,0	23	364	8372
	11	5,0	42	247	10374
	12	5,0	19	104	1976
	13	5,0	16	221	3536
	14	5,0	14	370	5180
	15	5,0	4	264	1628
	16	5,0	13	150	3900
	17	5,0	39	169	6591
	18	5,0	12	136	1632
	19	5,0	10	200	2000
	20	5,0	15	252	3780
	21	5,0	28	109	3052
	22	5,0	5	231	1155
	23	5,0	11	206	2266
	24	5,0	20	106	2120
	25	5,0	18	186	3384
	26	5,0	20	335	6700
CA50	27	6,3	3	93	279
	28	6,3	3	83	249
	29	6,3	19	116	2068
	30	6,3	44	262	11528
	31	6,3	18	133	2394
	32	6,3	18	243	4410
	33	6,3	10	134	1340
	34	6,3	8	378	3032
	35	6,3	12	575	6900
	36	6,3	13	564	7722
	37	6,3	7	232	1624
	38	6,3	10	183	1830
	39	6,3	13	156	2028
	40	6,3	12	82	984
	41	6,3	12	92	1102
	42	6,3	12	139	1668
	43	6,3	3	96	288
	44	6,3	10	202	2020
	45	6,3	14	340	4956
	46	6,3	22	366	8756
	47	6,3	9	266	1596
	48	6,3	11	315	3465

Resumo do aço

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6,3	652,4	175,5
CA60	5,0	787,4	130
PESO TOTAL (kg)			
CA50	197,5		
CA60	130		

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



UNIVERSIDADE FEDERAL DO AMAZONAS - UFAM
PREFEITURA DO CAMPUS UNIVERSITÁRIO
DIVISÃO DE PROJETOS E FISCALIZAÇÃO DE OBRAS

OBRA / PROJETO: RESTAURANTE UNIVERSITÁRIO DO CAMPUS DORVAL VARELA MOURA

PROPRIETÁRIO: UNIVERSIDADE FEDERAL DO AMAZONAS - UFAM

ENDEREÇO: ESTRADA PARINTINS MACURANY, PARINTINS/AM.

AUTORIA: ENG. CIVIL ALANAR PEREIRA TORRES • CREA • 19886 • D/AM

PROJETO: ESTRUTURAS — FOLHA: EX

TÍTULO: ARMAÇÕES NEGATIVAS - LAJES DO NÍVEL +5,27

EST 06

MOTIVO:

ESCALA	DESENHO	REV. DESENHO	DATA
1:50	ALANAR		FEV/2016

ALTERAÇÃO PROJETO Nº	DATA	DESCRIÇÃO / ALTERAÇÃO	VISTO

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