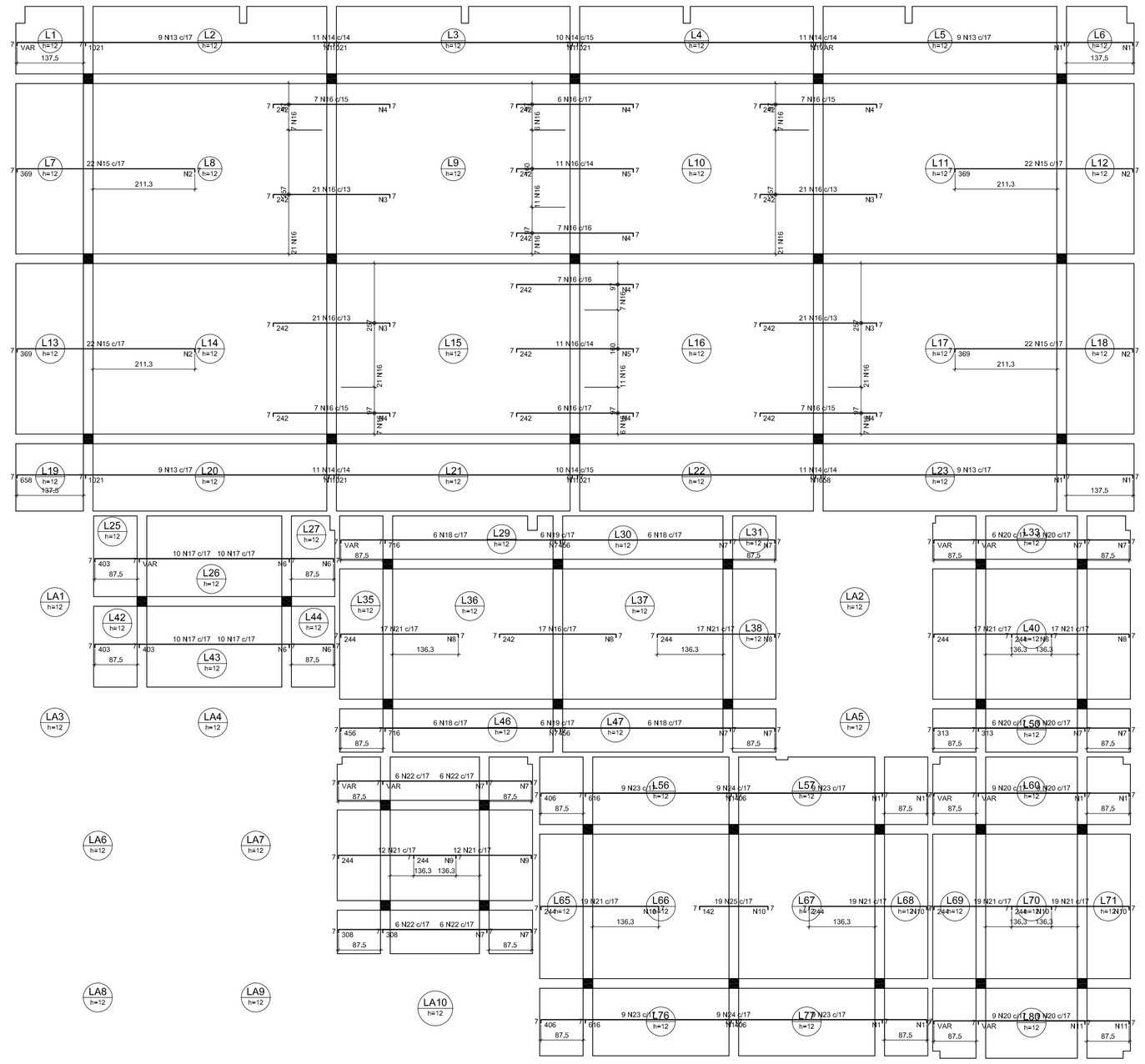
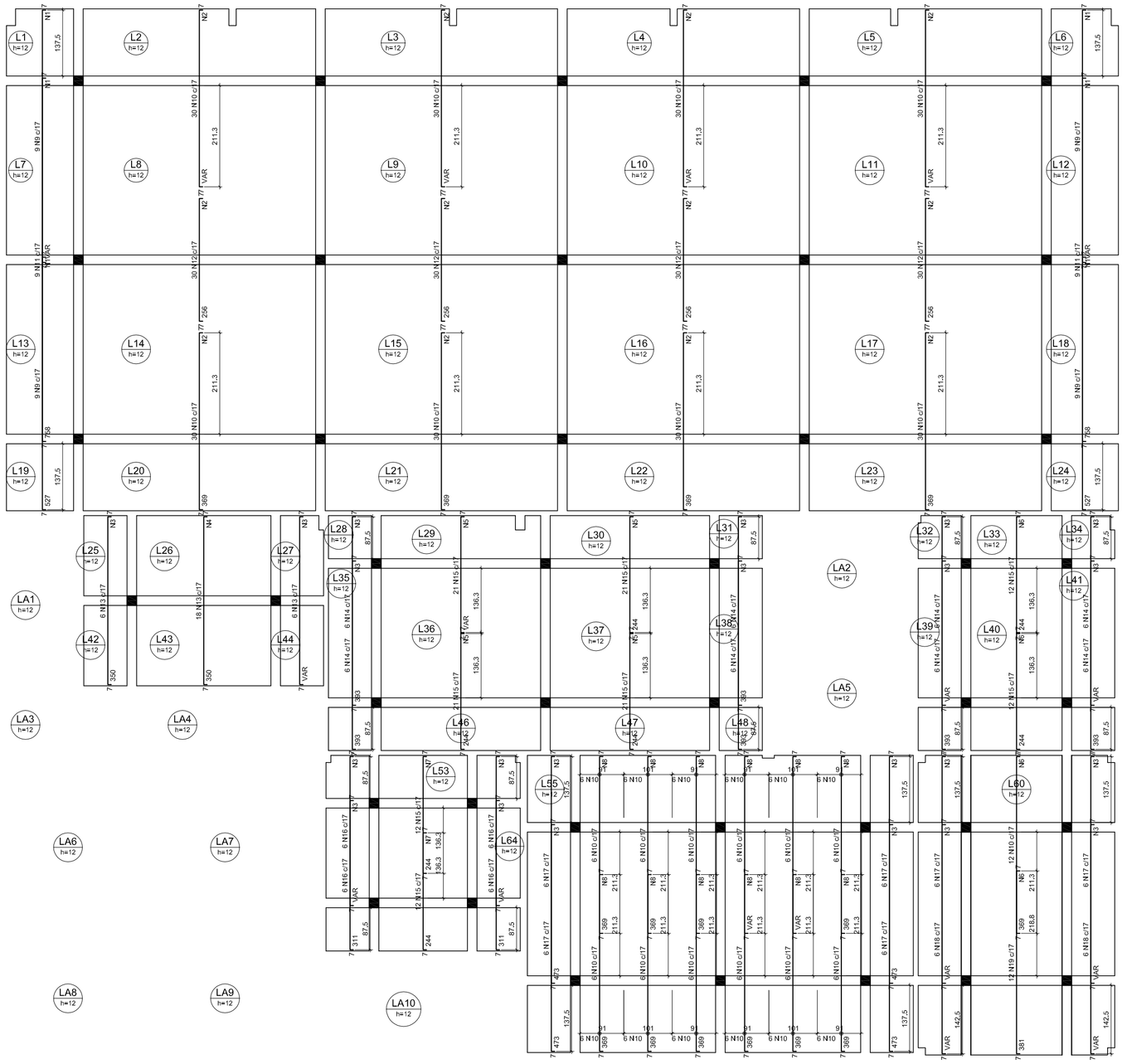


Ferros de distribuição	
Ferro	Armadura de distribuição
N13	33 N1 ø5.0 C=150 e=20
N14	51 N1 ø5.0 C=150 e=20
N14	51 N1 ø5.0 C=150 e=20
N14	51 N1 ø5.0 C=150 e=20
N13	33 N1 ø5.0 C=150 e=20
N15	19 N2 ø5.0 C=374 e=20
N16	13 N3 ø5.0 C=267 e=20
N16	13 N4 ø5.0 C=107 e=20
N16	13 N4 ø5.0 C=107 e=20
N16	13 N5 ø5.0 C=160 e=20
N16	13 N4 ø5.0 C=107 e=20
N16	13 N4 ø5.0 C=107 e=20
N16	13 N3 ø5.0 C=267 e=20
N15	19 N2 ø5.0 C=374 e=20
N13	33 N1 ø5.0 C=150 e=20
N14	51 N1 ø5.0 C=150 e=20
N14	51 N1 ø5.0 C=150 e=20
N14	51 N1 ø5.0 C=150 e=20
N13	33 N1 ø5.0 C=150 e=20
N17	21 N6 ø5.0 C=178 e=20
N17	21 N6 ø5.0 C=178 e=20
N18	23 N7 ø5.0 C=100 e=20
N19	36 N7 ø5.0 C=100 e=20
N18	23 N7 ø5.0 C=100 e=20
N20	16 N7 ø5.0 C=100 e=20
N20	16 N7 ø5.0 C=100 e=20
N21	13 N8 ø5.0 C=290 e=20
N16	13 N8 ø5.0 C=290 e=20
N21	13 N8 ø5.0 C=290 e=20
N21	13 N8 ø5.0 C=290 e=20
N21	13 N8 ø5.0 C=290 e=20
N17	21 N6 ø5.0 C=178 e=20
N17	21 N6 ø5.0 C=178 e=20
N18	23 N7 ø5.0 C=100 e=20
N19	36 N7 ø5.0 C=100 e=20
N18	23 N7 ø5.0 C=100 e=20
N20	16 N7 ø5.0 C=100 e=20
N20	16 N7 ø5.0 C=100 e=20
N20	16 N7 ø5.0 C=100 e=20
N22	16 N7 ø5.0 C=100 e=20
N22	16 N7 ø5.0 C=100 e=20
N24	31 N1 ø5.0 C=150 e=20
N23	21 N1 ø5.0 C=150 e=20
N20	16 N1 ø5.0 C=150 e=20
N20	16 N1 ø5.0 C=150 e=20
N21	13 N9 ø5.0 C=208 e=20
N21	13 N9 ø5.0 C=208 e=20
N25	8 N10 ø5.0 C=320 e=20
N21	13 N10 ø5.0 C=320 e=20
N21	13 N10 ø5.0 C=320 e=20
N21	13 N10 ø5.0 C=320 e=20
N22	16 N7 ø5.0 C=100 e=20
N22	16 N7 ø5.0 C=100 e=20
N23	21 N1 ø5.0 C=150 e=20
N24	31 N1 ø5.0 C=150 e=20
N23	21 N1 ø5.0 C=150 e=20
N20	16 N11 ø5.0 C=155 e=20
N20	16 N11 ø5.0 C=155 e=20



Ferros de distribuição	
Ferro	Armadura de distribuição
N9	27 N1 ø5.0 C=150 e=20
N10	19 N2 ø5.0 C=505 e=20
N10	19 N2 ø5.0 C=505 e=20
N10	19 N2 ø5.0 C=505 e=20
N10	19 N2 ø5.0 C=505 e=20
N9	27 N1 ø5.0 C=150 e=20
N11	38 N1 ø5.0 C=150 e=20
N12	13 N2 ø5.0 C=505 e=20
N12	13 N2 ø5.0 C=505 e=20
N12	13 N2 ø5.0 C=505 e=20
N12	13 N2 ø5.0 C=505 e=20
N11	38 N1 ø5.0 C=150 e=20
N9	27 N1 ø5.0 C=150 e=20
N10	19 N2 ø5.0 C=505 e=20
N10	19 N2 ø5.0 C=505 e=20
N10	19 N2 ø5.0 C=505 e=20
N10	19 N2 ø5.0 C=505 e=20
N9	27 N1 ø5.0 C=150 e=20
N13	18 N3 ø5.0 C=100 e=20
N13	18 N4 ø5.0 C=300 e=20
N13	18 N3 ø5.0 C=100 e=20
N14	20 N3 ø5.0 C=100 e=20
N15	13 N5 ø5.0 C=353 e=20
N15	13 N5 ø5.0 C=353 e=20
N14	20 N3 ø5.0 C=100 e=20
N14	20 N3 ø5.0 C=100 e=20
N15	13 N5 ø5.0 C=210 e=20
N14	20 N3 ø5.0 C=100 e=20
N14	20 N3 ø5.0 C=100 e=20
N15	13 N5 ø5.0 C=353 e=20
N15	13 N5 ø5.0 C=353 e=20
N14	20 N3 ø5.0 C=100 e=20
N14	20 N3 ø5.0 C=100 e=20
N15	13 N5 ø5.0 C=210 e=20
N14	20 N3 ø5.0 C=100 e=20
N14	20 N3 ø5.0 C=100 e=20
N16	16 N3 ø5.0 C=100 e=20
N15	13 N7 ø5.0 C=205 e=20
N16	16 N3 ø5.0 C=100 e=20
N17	24 N3 ø5.0 C=100 e=20
N10	19 N8 ø5.0 C=101 e=20
N10	19 N8 ø5.0 C=101 e=20
N10	19 N8 ø5.0 C=101 e=20
N10	19 N8 ø5.0 C=101 e=20
N10	19 N8 ø5.0 C=101 e=20
N17	24 N3 ø5.0 C=100 e=20
N17	24 N3 ø5.0 C=100 e=20
N15	13 N7 ø5.0 C=205 e=20
N16	16 N3 ø5.0 C=100 e=20
N17	24 N3 ø5.0 C=100 e=20
N10	19 N8 ø5.0 C=101 e=20
N10	19 N8 ø5.0 C=101 e=20
N10	19 N8 ø5.0 C=101 e=20
N17	24 N3 ø5.0 C=100 e=20
N18	24 N3 ø5.0 C=100 e=20
N19	19 N6 ø5.0 C=210 e=20
N18	24 N3 ø5.0 C=100 e=20

RELAÇÃO DO AÇO

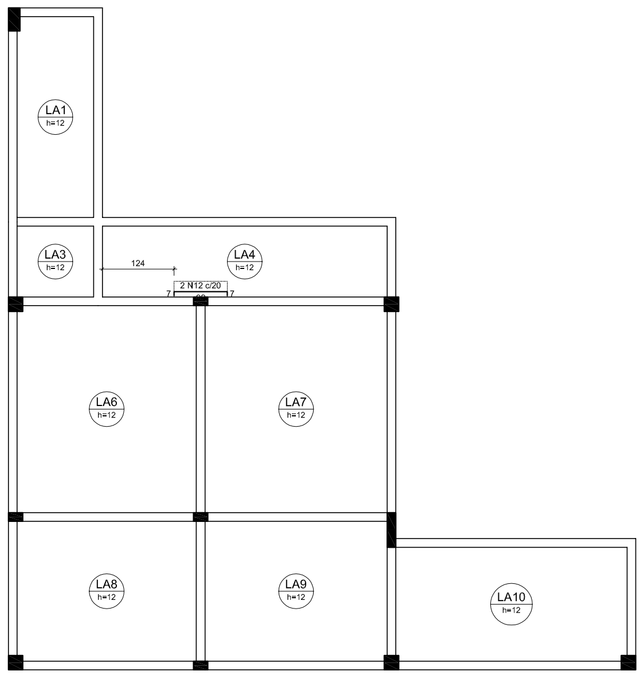
Negativos Y

AÇO	N	DIAM (mm)	QUANT (Barras)	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	184	VAR	VAR
	2	5.0	204	VAR	VAR
	3	5.0	452	100	45200
	4	5.0	18	300	5400
	5	5.0	52	VAR	VAR
	6	5.0	64	210	13440
	7	5.0	26	205	5330
CA50	8	5.0	228	101	23028
	9	6.3	76	VAR	VAR
	10	6.3	324	VAR	VAR
	11	6.3	18	789	13942
	12	6.3	120	267	32040
	13	6.3	30	361	10830
	14	6.3	48	404	19392
	15	6.3	132	VAR	VAR
	16	6.3	24	VAR	VAR
	17	6.3	36	484	17424
	18	6.3	12	VAR	VAR
	19	6.3	12	392	4704

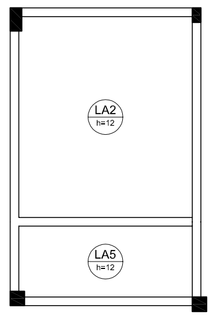
RESUMO DO AÇO

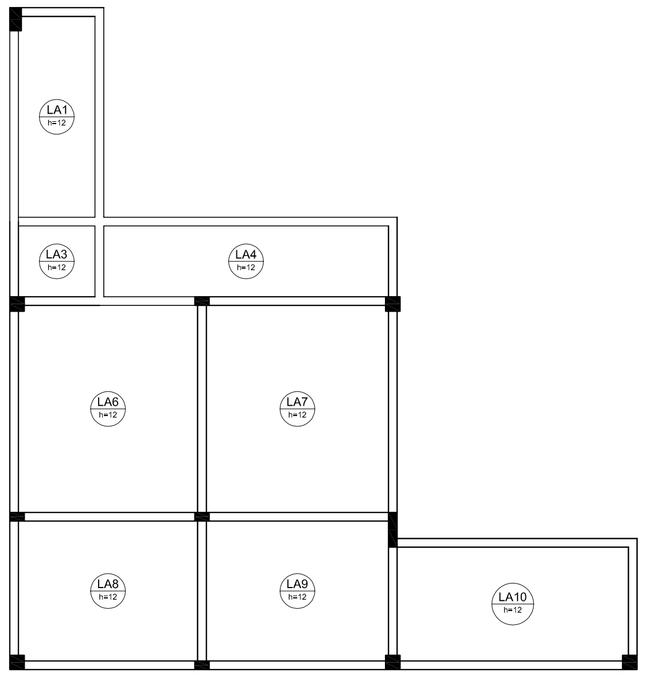
AÇO	DIAM (mm)	C.TOTAL (m)	PESO+10% (kg)
CA50	6.3	2680,7	776,7
CA60	5.0	2413,7	408,8
PESO TOTAL (kg)			
CA50	776,7		
CA60	408,8		

Área de forma = 0,00 m²

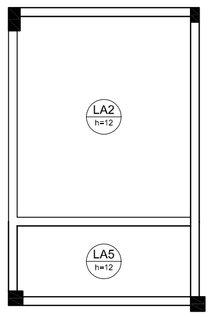


Armação negativa das lajes do pavimento 1 (Eixo X)
escala 1:50





Armação negativa das lajes do pavimento 1 (Eixo Y)
escala 1:50



CONTRATADA: INSTITUTO FEDERAL DE EDUCAÇÃO CIÊNCIA E TECNOLOGIA CATARINENSE - REITORIA TELEFONE: (47) 3331 7800 ENDEREÇO: RUA DAS MISSÕES, 100 BLUMENAU - SC	CONTRATANTE: INSTITUTO FEDERAL DE EDUCAÇÃO CIÊNCIA E TECNOLOGIA CATARINENSE UNIDADE: CAMPUS BRUSQUE ENDEREÇO: AV HUGO SCHLOSSER BRUSQUE - SC
AUTORIA DO PROJETO: ENG. MARIO C. ALEXANDRE JUNIOR CREA-SC: 119087-1	CONTRATANTE:
NOME DO PROJETO: FUNDAÇÕES E PISO - REFEITÓRIO E VIVÊNCIA	
CONTEÚDO: DETALHAMENTO ARMADURA POSITIVA LAJES	
OBJETIVO DO PROJETO: CONSTRUÇÃO	TIPO DE PROJETO: ESTRUTURAL
AUTORIA DO DESENHO: ENG. MARIO C. ALEXANDRE JR	
CIDADE - UF: BLUMENAU - SC	REVISÃO Nº: 01
DATA: 04/2014	ESCALA: INDICADA
FOLHA: 06	REFERÊNCIA: EST. 06/06