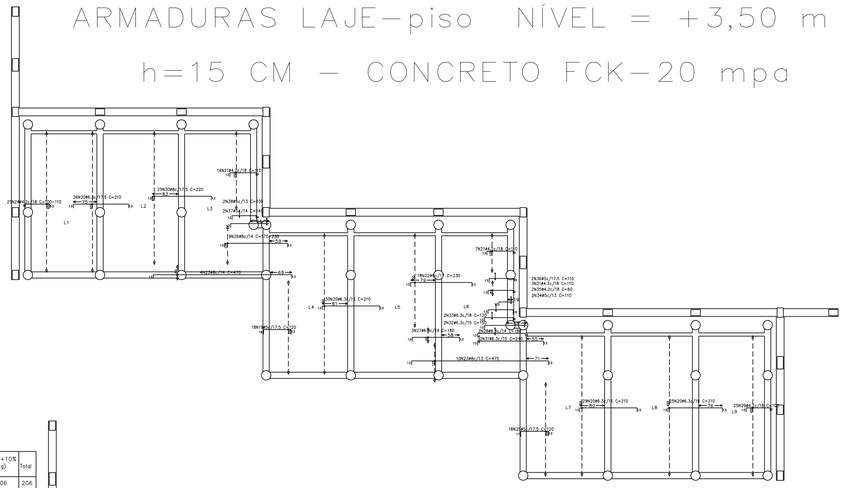
ARMADURAS LAJE–piso NÍVEL = +3,50 m

h=15 CM – CONCRETO FCK–20 mpa

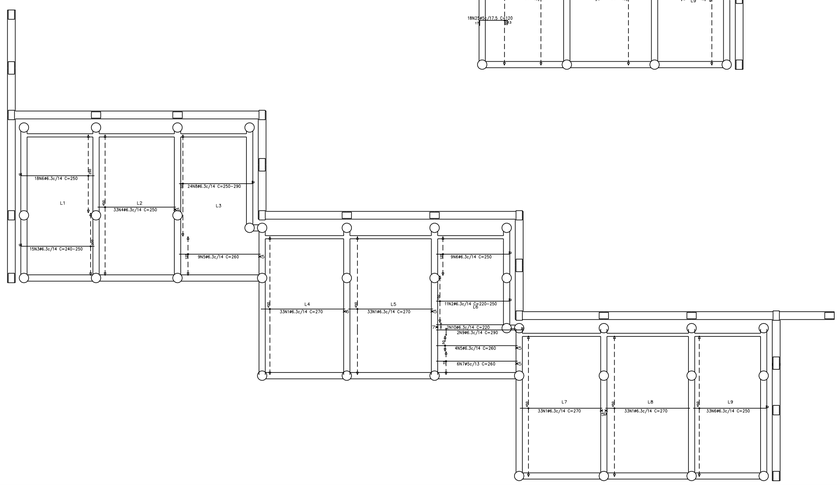
NIVEL 3,50 m
Armadura longitudinal superior
Concreto: C25, em geral
CA-50-A e CA-60-B
Escala: 1:100

Resumo Aço NIVEL 3,50 m Armadura longitudinal superior		Comp. total (m)	Peso+10% (kg)	Total
CA-50–A	Ø6.3	250.2	68	
	Ø8	181.8	79	147
CA-60–B	Ø4.2	77.9	9	
	Ø5	52.4	9	18
Total				165



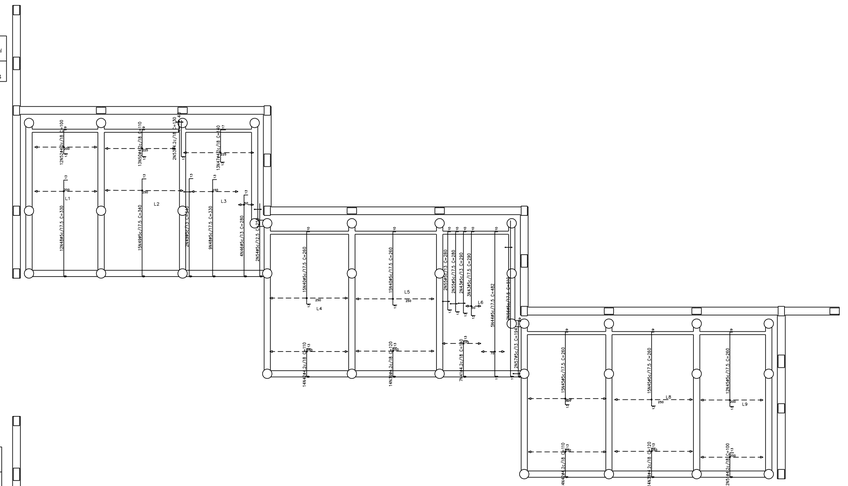
NIVEL 3,50 m
Armadura longitudinal superior
Concreto: C25, em geral
CA-50-A e CA-60-B
Escala: 1:100

Resumo Aço NIVEL 3,50 m Armadura longitudinal superior		Comp. total (m)	Peso+10% (kg)	Total
CA-50–A	Ø6.3	758.6	206	206
CA-60–B	Ø5	15.6	3	3
Total				209



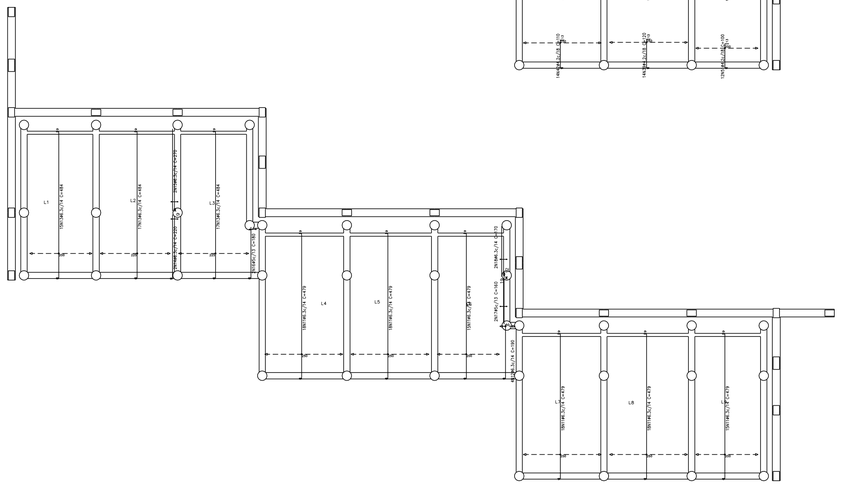
NIVEL 3,50 m
Armadura transversal superior
Concreto: C25, em geral
CA-50-A e CA-60-B
Escala: 1:100

Resumo Aço NIVEL 3,50 m Armadura transversal superior		Comp. total (m)	Peso+10% (kg)	Total
CA-60–B	Ø4.2	133.3	16	
	Ø5	394.4	68	84



NIVEL 3,50 m
Armadura transversal inferior
Concreto: C25, em geral
CA-50-A e CA-60-B
Escala: 1:100

Resumo Aço NIVEL 3,50 m Armadura transversal inferior		Comp. total (m)	Peso+10% (kg)	Total
CA-50–A	Ø6.3	746.5	203	203
CA-60–B	Ø5	6.8	1	1
Total				204



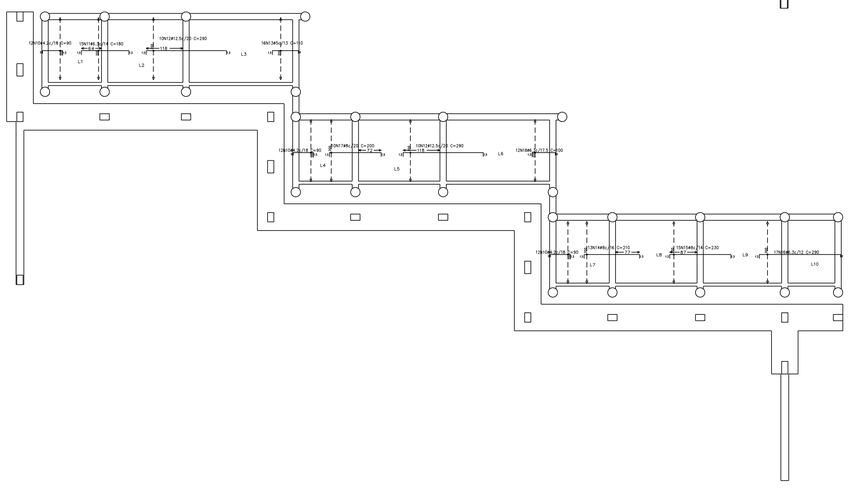
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reto (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA–50–A (kg)	CA–60–B (kg)
Armadura longitudinal inferior	1	Ø6.3	332				270	35640	88.1	
	2	Ø6.3	11	9			V.VAR.	2695	6.7	
	3	Ø6.3	15	9			V.VAR.	3735	9.2	
	4	Ø6.3	83				250	20750	51.3	
	5	Ø6.3	15	9			250	3735	9.2	
	6	Ø6.3	60	9			240	14400	35.6	
	7	Ø5	6	9			260	1560		2.4
	8	Ø6.3	24	9			V.VAR.	6144	15.2	
	9	Ø6.3	2	9			290	580	1.4	
	10	Ø6.3	2				220	440	1.1	
								Total+10%	206.4	3.4
Armadura transversal inferior	11	Ø6.3	302	9			467	141034	133.8	
	12	Ø6.3	2	9			479	1438	3.6	
	13	Ø6.3	410	9			466	191060	484	58.6
	14	Ø6.3	2	9			211	440	1.1	
	15	Ø6.3	2				270	540	1.3	
	16	Ø5	2	9			171	360		0.6
	17	Ø5	2				150	300		0.5
	18	Ø6.3	2				170	340	0.8	
								Total+10%	203.0	1.2
Armadura longitudinal superior	19	Ø5	136	16		31	13	1320	3960		3.4
	20	Ø6.3	310	15		184	13	210	33100	57.1	
	21	Ø6.3	24	15		88	9	110	2640		2.9
	22	Ø8	18	15		204	13	230	4140	16.2	
	23	Ø8	112	15		204	13	230	25760	25.8	
	24	Ø4.2	25	9		V.VAR.	13	V.VAR.	2525		1.8
	25	Ø5	18	17		90	13	120	2160		3.4
	26	Ø8	18	15		V.VAR.	13	V.VAR.	1962	7.7	
	27	Ø6.3	3	15		154	13	180	540	1.3	
	28	Ø4.2	25	15		78	9	100	2500	6.9	
	29	Ø4.2	25	15		78	9	100	2500		2.7
	30	Ø8	20	15		184	13	220	5500	21.6	
	31	Ø6.3	2	15		214	13	240	480	1.2	
	32	Ø6.3	2	15		197		150	300	0.7	
	33	Ø5	2	15		57	9	100	200	0.5	
	34	Ø5	2	15		82	15	140	280		0.3
	35	Ø4.2	2	15		47		60	120		0.1
	36	Ø5	2	15		88	9	110	220		0.3
	37	Ø5	2	15		107		140	280		0.4
	38	Ø5	2	15		78	9	100	200		0.3
								Total+10%	146.4	151.3	
Armadura transversal superior	39	Ø4.2	248	9		88	13	120	33600		37
	40	Ø4.2	80	13		207	13	240	19440		12.2
	41	Ø4.2	2	13		181	13	140	640		0.4
	42	Ø4.2	28	8		88	13	110	3080		3.4
	43	Ø5	5	15		267	10	280	1450		2.3
	44	Ø5	5	15		443	10	460	2410		3.8
	45	Ø5	40	15		258	9	280	12920		11.5
	46	Ø4.2	13	15		207	13	240	3640		2.2
	47	Ø4.2	13	15		117	13	140	1820		1.1
	48	Ø5	21	9		308	13	330	8930		10.9
	49	Ø5	17	9		313	13	340	5780		9.1
	50	Ø4.2	12	15		88	9	110	1430		1.6
	51	Ø4.2	12	13		78	9	100	1320		1.3
	52	Ø4.2	12	13		78	9	100	1200		1.3
	53	Ø4.2	2	15		117		130	260		0.3
	54	Ø5	2	9		241		250	500		0.8
	55	Ø5	8	15		257	10	280	1120		1.8
	56	Ø5	2	15		167		180	360		0.6
	57	Ø5	2	9		174	9	184	368		0.6
								Total+10%			84.4
								Ø4.2:	0.0		25.8
								Ø5:	0.0		80.9
								Ø6.3:	417.4		0.0
								Ø8:	78.4		0.0
								Total:	505.8		106.5

ARMADURAS LAJE–piso NÍVEL = 0.0 m

h=15 CM – CONCRETO FCK–20 mpa

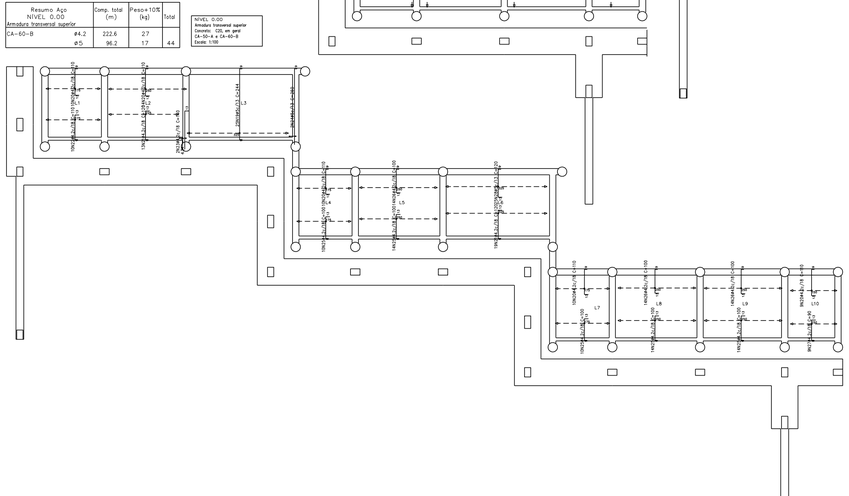
NIVEL 0,00
Armadura longitudinal superior
Concreto: C25, em geral
CA-50-A e CA-60-B
Escala: 1:100

Resumo Aço NIVEL 0.00 Armadura longitudinal superior		Comp. total (m)	Peso+10% (kg)	Total
CA-50–A	Ø6.3	88.3	24	
	Ø8	81.8	35	
	Ø12.5	58.0	63	122
CA-60–B	Ø4.2	32.4	4	
	Ø5	17.6	3	7
Total				129



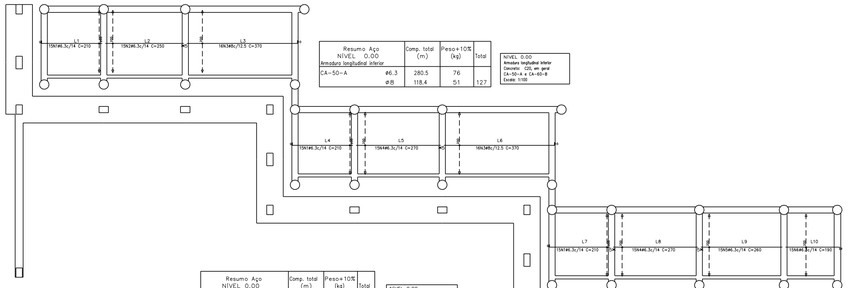
NIVEL 0,00
Armadura transversal superior
Concreto: C25, em geral
CA-50-A e CA-60-B
Escala: 1:100

Resumo Aço NIVEL 0.00 Armadura transversal superior		Comp. total (m)	Peso+10% (kg)	Total
CA-60–B	Ø4.2	222.6	27	
	Ø5	96.2	17	44



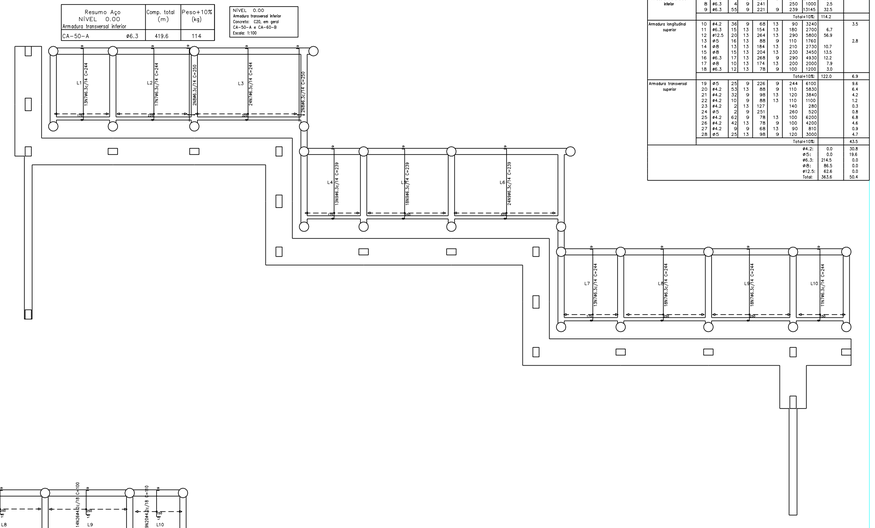
NIVEL 0,00
Armadura longitudinal inferior
Concreto: C25, em geral
CA-50-A e CA-60-B
Escala: 1:100

Resumo Aço NIVEL 0.00 Armadura longitudinal inferior		Comp. total (m)	Peso+10% (kg)	Total
CA-50–A	Ø6.3	280.5	76	
	Ø8	118.4	51	127



NIVEL 0,00
Armadura transversal inferior
Concreto: C25, em geral
CA-50-A e CA-60-B
Escala: 1:100

Resumo Aço NIVEL 0.00 Armadura transversal inferior		Comp. total (m)	Peso+10% (kg)	Total
CA-50–A	Ø6.3	419.6	114	



Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reto (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA–50–A (kg)	CA–60–B (kg)
Armadura longitudinal inferior	1	Ø6.3	42				225	9450	23.9	
	2	Ø6.3	15	9			250	3750	9.5	
	3	Ø8	32	10			360	11840	46.5	
	4	Ø6.3	50				270	8100	20.5	
	5	Ø6.3	15	9			260	3900	9.8	
	6	Ø6.3	15	9			180	2850	7.2	
								Total+10%	127.4	
Armadura transversal inferior	7	Ø6.3	314	9			228	71965	68.5	
	8	Ø6.3	2	9			241	724	1.8	
	9	Ø6.3	59	9			239	15045	32.5	
								Total+10%	114.2	
Armadura longitudinal superior	10	Ø4.2	36	9		68	13	90	3240		3.5
	11	Ø6.3	15	15		154	13	180	2700	6.7	
	12	Ø12.5	20	15		264	13	290	5800	56.9	
	13	Ø5	15	15		88	9	110	1650		2.8
	14	Ø8	13	15		204	13	230	2990	10.1	
	15	Ø8	112	15		204	13	230	25760	25.8	
	16	Ø6.3	17	13		268	9	290	4930	12.2	
	17	Ø8	10	15		174	13	200	2000	7.4	
	18	Ø6.3	13	15		78	9	100	1300	3.2	
								Total+10%	122.0	6.9	
Armadura transversal superior	19	Ø5	25	9		228	9	244	6100		9.8
	20	Ø4.2	53	15		88	9	110	5830		6.4
	21	Ø4.2	20	15		78	9	100	2000		2.2
	22	Ø4.2	10	9		88	13	110	1100		1.2
	23	Ø4.2	2	15		127		140	280		0.3
	24	Ø5	2	9		251		260	520		0.8
	25	Ø4.2	62	9		78	13	100	6200		6.8
	26	Ø4.2	40	9		78	9	100	4000		4.4
	27	Ø4.2	9	13		88	13	90	810		0.9
	28	Ø5	29	15		98	9	120	3000		4.7
								Total+10%			43.5
								Ø4.2:	0.0		30.8
								Ø5:	0.0		19.6
								Ø6.3:	274.5		0.0
								Ø8:	51.7		0.0
								Ø12.5:	62.6		0.0
								Total:	363.6		50.4

REÚSA
CONSERVAÇÃO AMBIENTAL

Rua: Floriano Peixoto, N° 40
Centro
CEP: 14870-370 - Jaboticabal-SP
Tel.: (16) 3202-1446

PROJETO CIVIL
TÍTULO: ARMADURA LAJE-PISO NIVEL 0,00/ NIVEL 3,50M

CLIENTE: PREFEITURA MUNICIPAL DE SÃO JOÃO DA BOA VISTA

EMPREENDIMENTO: ESTAÇÃO DE TRANSBORDO DE SÃO JOÃO DA BOA VISTA

ESCALA :	FOLHA:	DATA :	DESENHO:	RESPONSÁVEL:	ASSINATURA :
1: 100	12/14	MAR/2012	RODOLFO DIAS	PAULO HENRIQUE BELLINGIERI ENG° CIVIL - CREA 5061918034	