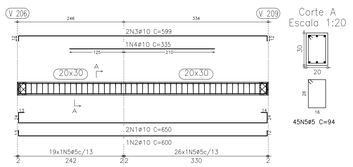
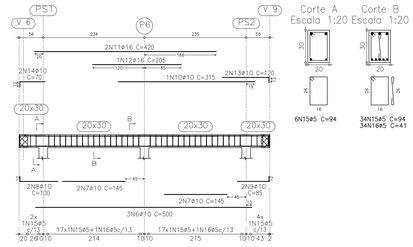
Laje 2
Desenho de vigas
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala vigas: 1:50
Escala seções: 1:20

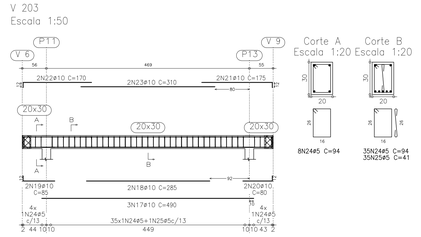
V 201
Escala 1:50



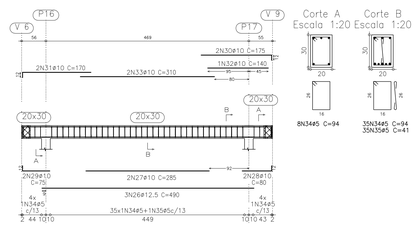
V 202
Escala 1:50



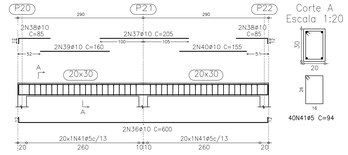
V 203
Escala 1:50



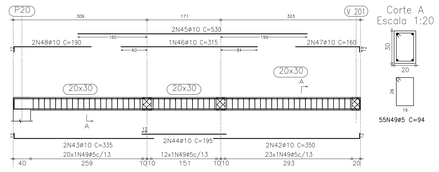
V 204
Escala 1:50



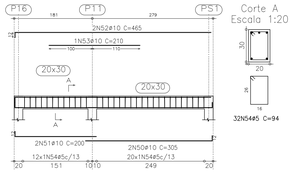
V 205
Escala 1:50



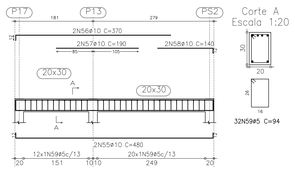
V 206
Escala 1:50



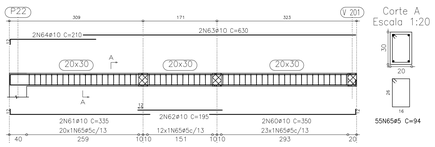
V 207
Escala 1:50



V 208
Escala 1:50



V 209
Escala 1:50



Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 201	1	ø10	2	37	575	38	650	1300	8.2	
	2	ø10	1	13	575	12	600	600	3.8	
	3	ø10	2	12	575	12	599	1198	7.5	
	4	ø10	1		335		335	335	2.1	
	5	ø5	45				94	4230		6.6
								Total+10%	23.8	7.3
V 202	6	ø10	3		500		500	1500	9.4	
	7	ø10	4		145		580	580	3.6	
	8	ø10	2	12	88		100	200	1.3	
	9	ø10	2		73	12	85	170	1.1	
	10	ø10	1		315		315	315	2.0	
	11	ø16	2		420		420	840	13.2	
	12	ø16	1		205		205	205	3.2	
	13	ø10	2		108	12	120	240	1.5	
	14	ø10	2	12	58		70	140	0.9	
	15	ø5	40				94	3760		5.9
	16	ø5	34				41	1394		2.2
								Total+10%	39.8	8.9
V 203	17	ø10	3		490		490	1470	9.2	
	18	ø10	2		285		285	570	3.6	
	19	ø10	2	12	73		85	170	1.1	
	20	ø10	2		68	12	80	160	1.0	
	21	ø10	2		163	12	175	350	2.2	
	22	ø10	2	12	158		170	340	2.1	
	23	ø10	2		310		310	620	3.9	
	24	ø5	43				94	4042		6.3
	25	ø5	35				41	1435		2.3
								Total+10%	25.4	9.5
V 204	26	ø12.5	3		490		490	1470	14.4	
	27	ø10	2		285		285	570	3.6	
	28	ø10	2		68	12	80	160	1.0	
	29	ø10	2	12	63		75	150	0.9	
	30	ø10	2		163	12	175	350	2.2	
	31	ø10	2	12	158		170	340	2.1	
	32	ø10	1		140		140	140	0.9	
	33	ø10	2		310		310	620	3.9	
	34	ø5	43				94	4042		6.3
	35	ø5	35				41	1435		2.3
								Total+10%	31.9	9.5
V 205	36	ø10	2	12	576	12	600	1200	7.5	
	37	ø10	2		205		205	410	2.6	
	38	ø10	4		73	12	85	340	2.1	
	39	ø10	2		160		160	320	2.0	
	40	ø10	2		155		155	310	1.9	
	41	ø5	40				94	3760		5.9
								Total+10%	17.7	6.5
V 206	42	ø10	2		338	12	350	700	4.4	
	43	ø10	2	12	323		335	670	4.2	
	44	ø10	2		195		195	390	2.4	
	45	ø10	2		530		530	1060	6.7	
	46	ø10	1		315		315	315	2.0	
	47	ø10	2		148	12	160	320	2.0	
	48	ø10	2	12	178		190	380	2.4	
	49	ø5	55				94	5170		8.1
								Total+10%	26.5	8.9
V 207	50	ø10	2		293	12	305	610	3.8	
	51	ø10	2	12	188		200	400	2.5	
	52	ø10	2	12	453		465	930	5.8	
	53	ø10	1		210		210	210	1.3	
	54	ø5	32				94	3008		4.7
								Total+10%	14.7	5.2
V 208	55	ø10	2	12	456	12	480	960	6.0	
	56	ø10	2	12	358		370	740	4.6	
	57	ø10	2		190		190	380	2.4	
	58	ø10	2		128	12	140	280	1.8	
	59	ø5	32				94	3008		4.7
								Total+10%	16.3	5.2
V 209	60	ø10	2		338	12	350	700	4.4	
	61	ø10	2	12	323		335	670	4.2	
	62	ø10	2		195		195	390	2.4	
	63	ø10	2		630		630	1260	7.9	
	64	ø10	2	12	198		420	840	2.6	
	65	ø5	55				94	5170		8.1
								Total+10%	23.7	8.9
								ø5:	0.0	69.9
								ø10:	186.0	0.0
								ø12.5:	15.8	0.0
								ø16:	18.0	0.0
								Total:	219.8	69.9

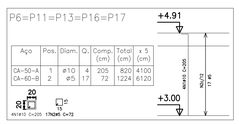
Resumo Aço Laje 2 Vigas		Comp. total (m)	Peso+10% (kg)	Total
CA-50-A	ø10	269.5	186	
	ø12.5	14.7	16	
	ø16	10.5	18	220
CA-60-B	ø5	404.5	70	70
Total				290

Pilares que terminam em Laje 2
Concreto: C20, em geral
Aço: CA-50-A e CA-60-B
Escala: 1:50

LEGENDA

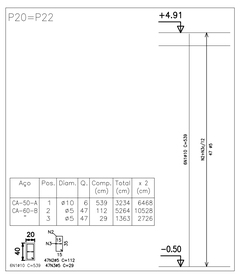
- *PILAR NASCE*
- *PILAR SEGUE*
- *PILAR MORRE*

P6=P11=P13=P16=P17



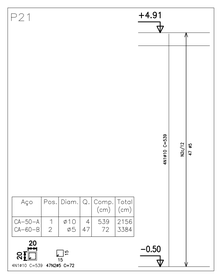
Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	x 5 (cm)
CA-50-A	1	ø10	4	205	820	4100
CA-60-B	2	ø5	17	72	1224	6120

P20=P22



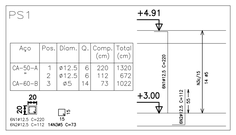
Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)	x 2 (cm)
CA-50-A	1	ø10	6	539	3234	6468
CA-60-B	2	ø5	47	112	5264	10528
"	3	ø5	47	29	1363	2726

P21



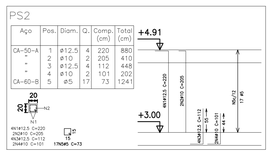
Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	ø10	4	539	2156
CA-60-B	2	ø5	47	72	3384

PS1



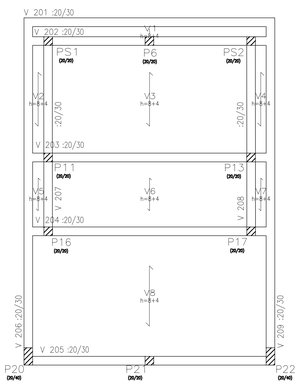
Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	ø12.5	6	220	1320
"	2	ø12.5	6	112	672
CA-60-B	3	ø5	14	73	1022

PS2



Aço	Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
CA-50-A	1	ø12.5	4	220	880
"	2	ø10	2	205	410
"	3	ø12.5	4	112	448
"	4	ø10	2	101	202
CA-60-B	5	ø5	17	73	1241

Resumo Aço Laje 1 até Laje 2 Pilares		Comp. total (m)	Peso+10% (kg)	Total
CA-50-A	ø10	133.4	92	
	ø12.5	33.2	36	128
CA-60-B	ø5	250.2	43	43
Total				171



FORMA DA LAJE 2
ESCALA 1:50

Laje 2 – Superfície total: 46.08 m2		
Elemento	Formas (m2)	Volume (m3)
LAJES	36.35	3.08
Vigas: fundo	9.73	3.09
Forma lateral	20.45	
Pilares (Sup. Formas)	25.40	1.44
Total	91.93	7.61

Tabela de características de lajes de vigotas (Grupo 3)
LAJE DE VIGOTAS DE CONCRETO
Altura do bloco/molde: 8 cm
Espessura comum de compressão: 4 cm
Entre-eixos: 55 cm
Bloco/Molde: Cerâmico
Largura do nervuro: 10 cm
Volume de concreto: 3,08 m3
Peso próprio: 0,176 t/m2
Nota: Consulte os detalhes referentes a uniões com lajes da estrutura principal e das zonas maciças.

eng. Adriano Poltronieri
CREA nº 5060295777

Localização

Obs:

SECRETARIA	DEPARTAMENTO		
Planejamento	*Arquitetura e Urbanismo*		
ESCALA: *Indicadas*	DATA: *DATA*	VISTO: *julho/2017*	DESENHO: *Adriano*

FOLHA/TOTAL: 1 1

Prefeitura do Município de Jaguariúna
Rua Alfredo Bueno, 1235 - Centro - Jaguariúna-SP - CEP 13820-000-Fone: (019) 3867 9700-Fax (019) 3867 2856

ASSUNTO: **Modernização de Infraestrutura Esportiva**
Forma da Laje 2

ARQUIVO: 2 PROJETOS DEPARTAMENTO DE PROJETOS SECRETARIA DE ESPORTES CLUBE DE TÊNIS EXECUTIVO PRANCHAS JÁ POSTADAS LAJE 2 - FORMA.DWG