

Technical drawing of a bridge deck cross-section showing reinforcement details. The drawing includes a top view of the deck with reinforcement bars (P1, P2, P3, P5, P11, P17, P18, P19) and a side view showing the deck profile and reinforcement layout. Key dimensions include deck width (307, 337, 368, 684, 460, 213, 464), reinforcement spacing (C=100, C=160, C=170, C=240, C=1100, C=705, C=1090, C=490), and reinforcement bar sizes (2N20#6.3, 2N14#8, 2N12#8, 1N10#8, 2N7#5, 1N17#8, 1N19#6.3, 2N18#8). The side view shows a deck profile with a 15x25 reinforcement bar and a 12x25 reinforcement bar. The drawing is labeled 'P1' through 'P19' and includes a scale bar.

Corte A
Escala 1:20

386

P7
2N4 ϕ 6.3
C=95 2xcamada

V3
2N4 ϕ 6.3
C=95

25

15

2N4 ϕ 5 C=413

15x25

A

46

10

35N4 ϕ 5 C=70

75

1N39 ϕ 6.3 C=230

2N38 ϕ 8 C=400

35xN4 ϕ 5 Sc/10

350

Technical drawing of a beam cross-section and elevation.

Cross-section (Top):

- Total width: 310
- Two 2N46B6.3 tubes (C=85) on the left and right.
- Central 2N45S5 tube (C=336).
- Labels: P7, P6, Corte A, Escala 1:20.

Elevation (Bottom):

- Beam size: 15x25
- Total length: 320
- Two 2N46B6.3 tubes (C=320) on the left and right.
- Central 25x1N4745/10 tube.
- Labels: A, L, A.

Detail (Right):

- 25N47#5 tube
- Width: 15
- Height: 10
- Center-to-center distance: C=70

[illegible]

Technical drawing of a mechanical part, showing a side view and a cross-section (Corte A).

Side View Dimensions:

- Total length: 159
- Distance between hole centers: 109
- Hole diameter: 11x11
- Hole depth: 10
- Radius R2 (top left corner)
- Radius R10 (bottom left corner)
- Radius R15 (bottom right corner)
- Distance from left edge to hole center: 50
- Distance from hole center to right edge: 50

Cross-section (Corte A) Dimensions:

- Width: 15
- Height: 20




Other Dimensions:

- 2N506.3 C=95
- 2N59.5 C=166
- 15x25
- 2N586.3 C=172
- 11x11N615 C/10
- 11N615 C=70

Labels:

- Corte A
- Escala 1:20

Elemento	Pos.	Diam.	Q.	Dob.(cm)	Ret.(cm)	Dob.(cm)	Comp.(cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 7	1	ø6.3	2	8	1082	10	1090	2180	5.4	
	2	ø6.3	2	10	702	10	722	1444	5.7	
	3	ø8	2		485		485	970	3.8	
	4	ø8	2		475		485	970	3.8	
	5	ø8	2		415		415	830	3.3	
	6	ø6.3	2		240		240	480	1.2	
	7	ø5	2		1170		1170	2340		3.7
	8	ø5	2	13	1082	18	1095	2190		3.4
	9	ø5	2		687		705	1410		2.2
	10	ø8	2		260		260	520	2.0	
	11	ø8	2		240		240	480	1.9	
	12	ø8	2		235		235	470	1.8	
	13	ø6.3	2		215		215	430	1.7	
	14	ø8	4		170		170	680	2.7	
	15	ø6.3	2		170		170	340	0.8	
	16	ø6.3	2		160		160	320	0.8	
	17	ø6.3	2		120		120	240	0.6	
	18	ø6.3	2	8	92		100	200	0.5	
	19	ø5	204				64	13056		20.5
	20	ø5	51				80	4080		6.4
Total+10%									39.6	39.8
									ø5: 0.0	88.3
									ø6.3: 10.2	0.0
									ø8: 29.4	0.0
									Total: 39.6	39.8
Elemento	Pos.	Diam.	Q.	Dob.(cm)	Ret.(cm)	Dob.(cm)	Comp.(cm)	Total (cm)	CA-50-A (kg)	CA-60-B (kg)
V 8	1	ø8	2	10	1080	10	1090	2180	8.6	
	2	ø6.3	2		705		705	1410	3.5	
	3	ø8	2		485		485	970	3.8	
	4	ø10	5	12	859	18	890	1780	6.2	
	5	ø10	4		280		280	280	1.8	
	6	ø6.3	2		240		240	480	1.2	
	7	ø5	2		1170		1170	2340		3.7
	8	ø5	18	1082		1100	2200		3.5	
	9	ø5	2		687		705	1410		2.2
	10	ø8	2		260		260	520	2.0	
	11	ø8	2		240		240	480	1.9	
	12	ø8	2		235		235	470	1.8	
	13	ø8	2		170		170	340	1.3	
	14	ø8	4		160		160	640	2.5	
	15	ø6.3	2		155		155	310	1.2	
	16	ø8	2		140		140	280	1.0	
	17	ø8	1		135		135	135	0.5	
	18	ø6.3	2		115		110	125	250	1.0
	19	ø6.3	2		107		8	115	115	0.5
	20	ø6.3	2	8	92		100	200	0.5	
	21	ø5	204				70	14280		22.4
	22	ø5	67				64	4288		6.7
Total+10%									41.5	42.4
V 1	23	ø10	3	12	629	12	653	1958	12.3	
	24	ø10	2		365		365	730	4.6	
	25	ø5	18	18	859	18	865	1958		3.1
	26	ø12.5	2		147		165	330	3.2	
	27	ø10	2		147		165	330	3.2	
	28	ø5	10	135		145	280	1.1		
	29	ø5	59				80	4720		7.4
	30	ø5	59				35	2065		3.2
	Total+10%									55.6
V 3	31	ø8	2	10	635	10	655	1310	5.1	
	32	ø6.3	1		175		175	175	0.4	
	33	ø5	2		635		671	1342		2.1
	34	ø8	2		160		160	320	1.3	
	35	ø8	2		85		95	190	0.7	
	36	ø6.3	2	8	87		95	190	0.5	
	37	ø5	57				70	3990		6.3
Total+10%									8.8	9.2
V 7	38	ø8	2	10	380	10	400	800	3.1	
	39	ø6.3	1		230		230	230	0.6	
	40	ø5	2	18	368	15	413	826		1.3
	41	ø6.3	2	10	110		120	240	0.9	
	42	ø6.3	2	5	87		95	285	0.7	
43	ø5	35				70	2450		3.8	
Total+10%									5.8	5.6
V 2	44	ø6.3	2	8	304	8	320	640	1.6	
	45	ø5	2	16	304	16	336	672		1.1
	46	ø6.3	4	8	77		85	340	0.8	2.7
	47	ø5	25				70	1750		1.1
Total+10%									2.6	4.2
V 10	48	ø8	2	10	345	10	365	730	2.9	
	49	ø5	2	18	345	18	381	762		1.2
	50	ø6.3	2	8	87		95	190	0.5	
	51	ø6.3	2	82	8		90	180	0.4	
	52	ø5	31				70	2170		3.4
Total+10%									4.2	5.1
V 5	53	ø6.3	2	8	337	8	353	706	1.7	
	54	ø5	2	18	337	18	373	746		1.2
	55	ø6.3	2	8	92		100	200	0.5	
	56	ø6.3	2	82	8		90	180	0.4	
	57	ø5	29				70	2030		3.2
Total+10%									2.9	4.8
V 6	58	ø6.3	2	10	154	8	172	344	0.9	
	59	ø5	2		154	12	166	332		0.5
	60	ø6.3	2		87	8	95	190	0.5	
	61	ø5	11				70	770		1.2
Total+10%									1.5	1.9
									ø5: 0.0	88.3
									ø6.3: 16.5	0.0
									ø8: 43.2	0.0
									ø10: 29.7	0.0
									ø12.5: 3.5	0.0
									Total: 92.9	88.3

REPUBLICAÇÃO	OBRA:		TEMPER: 500m2		01
	Município Presidente Getúlio- Reforma Parque Exposições		ESQ		
	CNPJ/CPF: 18.002.060/0001-40		CONSTRUÇÃO: 186,66 m2		
CONTÉUDO	Rua Severino Mendes, 995 - Planalto		PROJETO: 31/03/2015		
	PROJETO: CALCULO ESTRUTURAL E FUNDAÇÕES-PILOTO		REVISÃO: 02/04/2014		
	Célio Sebastião Franco		OBRA:		
CONTÉUDO	CREA: 1483/D-0F	ART: 2384126	03-CYPECAD1-4-31032015		
	VIGAS		CLIENTE:		
			033102015		
			3/3	CÉLIO FRANCO	
11-29302848-001-02-02-Reforma parque de exposições-Apoio a projeto de infraestrutura- Turismo			DES: Célio Franco TEL: (34)9961.4000 Email: cf.celiofranco@gmail.com		ESC.: Indústrias Projetos