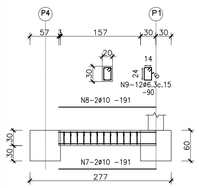
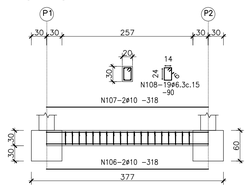
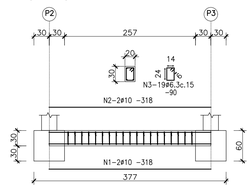
C.1 [P4 – P1]



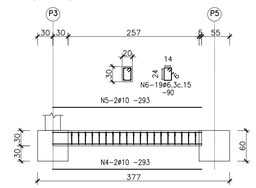
C.1 [P1 – P2]



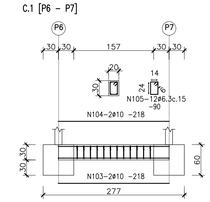
C.1 [P2 – P3]



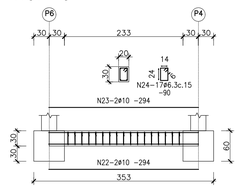
C.1 [P3 – P5]



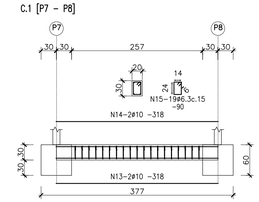
C.1 [P6 – P7]



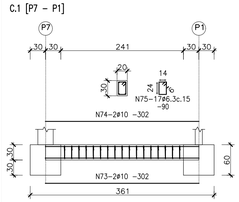
C.1 [P6 – P4]



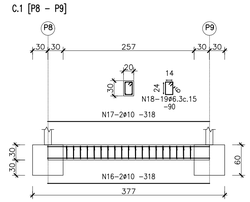
C.1 [P7 – P8]



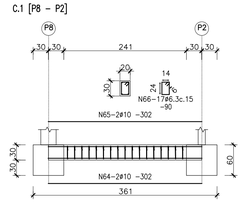
C.1 [P7 – P1]



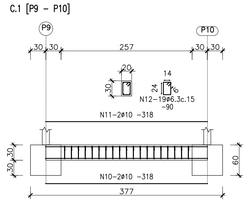
C.1 [P8 – P9]



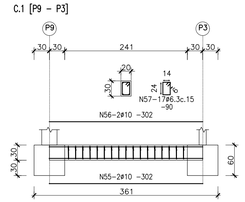
C.1 [P8 – P2]



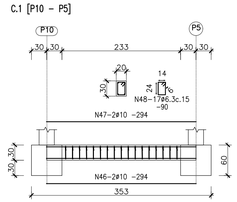
C.1 [P9 – P10]



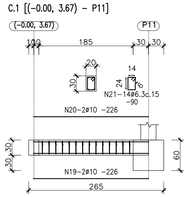
C.1 [P9 – P3]



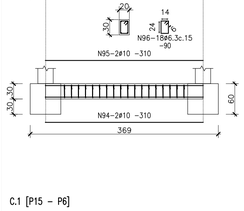
C.1 [P10 – P5]



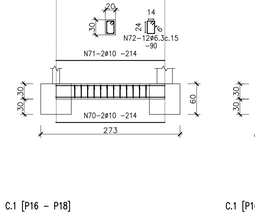
C.1 [(–0.00, 3.67) – P11]



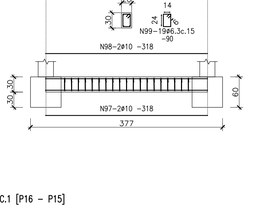
C.1 [P11 – P12]



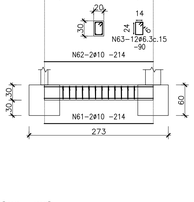
C.1 [P11 – P7]



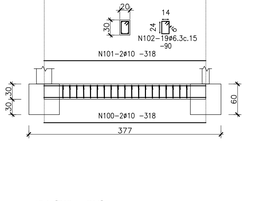
C.1 [P12 – P13]



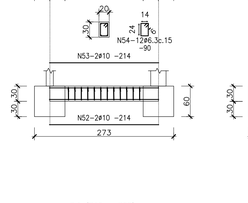
C.1 [P12 – P8]



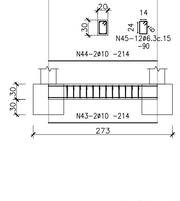
C.1 [P13 – P14]



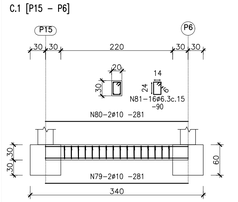
C.1 [P13 – P9]



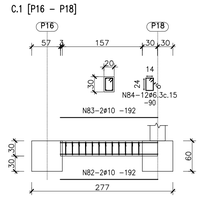
C.1 [P14 – P10]



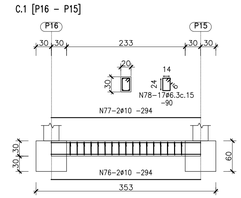
C.1 [P15 – P6]



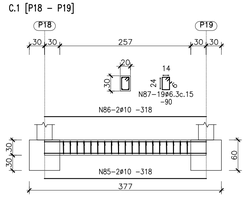
C.1 [P16 – P18]



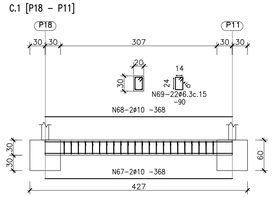
C.1 [P16 – P15]



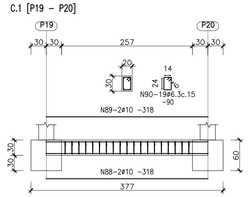
C.1 [P18 – P19]



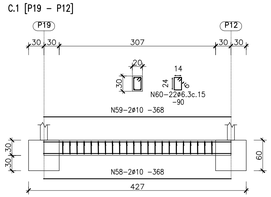
C.1 [P18 – P11]



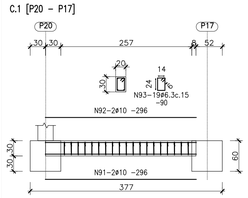
C.1 [P19 – P20]



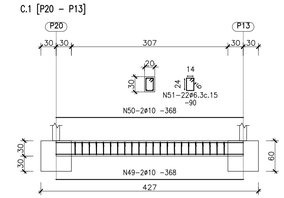
C.1 [P19 – P12]



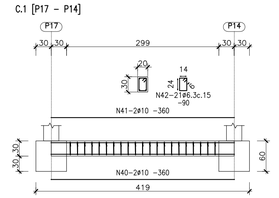
C.1 [P20 – P17]



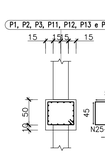
C.1 [P20 – P13]



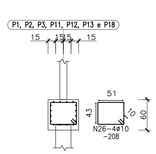
C.1 [P17 – P14]



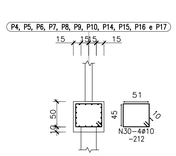
P1, P2, P3, P11, P12, P13 e P18



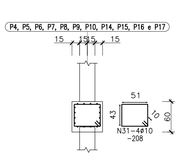
P1, P2, P3, P11, P12, P13 e P18



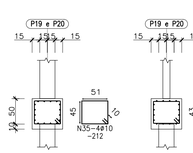
P4, P5, P6, P7, P8, P9, P10, P14, P15, P16 e P17



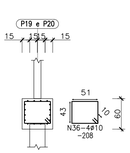
P4, P5, P6, P7, P8, P9, P10, P14, P15, P16 e P17



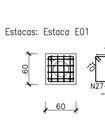
P19 e P20



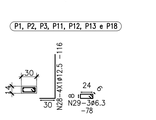
P19 e P20



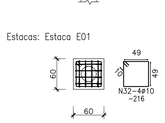
Estacas: Estaca E01



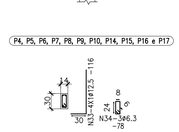
P1, P2, P3, P11, P12, P13 e P18



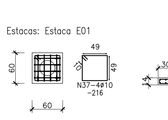
Estacas: Estaca E01



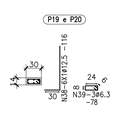
P4, P5, P6, P7, P8, P9, P10, P14, P15, P16 e P17



Estacas: Estaca E01



P19 e P20



Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA–50 (kg)	CA–60 (kg)
C.1 [P2 – P3]	1	ø10	2		318		318	636	3.9	
	2	ø10	2		318		318	636	3.9	
	3	ø6.3	19		90		90	1710	4.2	
							Total+10%		13.2	
C.1 [P3 – P5]	4	ø10	2		293		293	586	3.6	
	5	ø10	2		293		293	586	3.6	
	6	ø6.3	19		90		90	1710	4.2	
							Total+10%		12.5	
C.1 [P4 – P1]	7	ø10	2		191		191	382	2.4	
	8	ø10	2		191		191	382	2.4	
	9	ø6.3	12		90		90	1080	2.6	
							Total+10%		8.1	
C.1 [P9 – P10]	10	ø10	2		318		318	636	3.9	
	11	ø10	2		318		318	636	3.9	
	12	ø6.3	19		90		90	1710	4.2	
							Total+10%		13.2	
C.1 [P7 – P8]	13	ø10	2		318		318	636	3.9	
	14	ø10	2		318		318	636	3.9	
	15	ø6.3	19		90		90	1710	4.2	
							Total+10%		13.2	
C.1 [P8 – P9]	16	ø10	2		318		318	636	3.9	
	17	ø10	2		318		318	636	3.9	
	18	ø6.3	19		90		90	1710	4.2	
							Total+10%		13.2	
C.1 [(–0.00, 3.67) – P11]	19	ø10	2		226		226	452	2.8	
	20	ø10	2		226		226	452	2.8	
	21	ø6.3	14		90		90	1260	3.1	
							Total+10%		9.6	
C.1 [P6 – P4]	22	ø10	2		294		294	588	3.6	
	23	ø10	2		294		294	588	3.6	
	24	ø6.3	17		90		90	1530	3.7	
							Total+10%		12.0	
P1=P2=P3 P11=P12 P13=P18	25	ø10	4		212		212	848	5.2	
	26	ø10	4		208		208	832	5.1	
	27	ø10	4		216		216	864	5.3	
	28	ø12.5	4	30	86		116	464	4.5	
	29	ø6.3	3		78		78	234	0.6	
							Total+10%		22.8	
								(x7):	159.6	
P4=P5=P6 P7=P8=P9 P10=P14 P15=P16 P17	30	ø10	4		212		212	848	5.2	
	31	ø10	4		208		208	832	5.1	
	32	ø10	4		216		216	864	5.3	
	33	ø12.5	4	30	86		116	464	4.5	
	34	ø6.3	3		78		78	234	0.6	
							Total+10%		22.8	
								(x11):	250.8	
P19=P20	35	ø10	4		212		212	848	5.2	
	36	ø10	4		208		208	832	5.1	
	37	ø10	4		216		216	864	5.3	
	38	ø12.5	6	30	86		116	696	6.7	
	39	ø6.3	3		78		78	234	0.6	
							Total+10%		25.2	
								(x2):	50.4	
C.1 [P17 – P14]	40	ø10	2		360		360	720	4.4	
	41	ø10	2		360		360	720	4.4	
	42	ø6.3	21		90		90	1890	4.6	
							Total+10%		14.7	
C.1 [P14 – P10]	43	ø10	2		214		214	428	2.6	
	44	ø10	2		214		214	428	2.6	
	45	ø6.3	12		90		90	1080	2.6	
							Total+10%		8.6	
C.1 [P10 – P5]	46	ø10	2		294		294	588	3.6	
	47	ø10	2		294		294	588	3.6	
	48	ø6.3	17		90		90	1530	3.7	
							Total+10%		12.0	
C.1 [P20 – P13]	49	ø10	2		368		368	736	4.5	
	50	ø10	2		368		368	736	4.5	
	51	ø6.3	22		90		90	1980	4.8	
							Total+10%		15.2	
C.1 [P13 – P9]	52	ø10	2		214		214	428	2.6	
	53	ø10	2		214		214	428	2.6	
	54	ø6.3	12		90		90	1080	2.6	
							Total+10%		8.6	
C.1 [P9 – P3]	55	ø10	2		302		302	604	3.7	
	56	ø10	2		302		302	604	3.7	
	57	ø6.3	17		90		90	1530	3.7	
							Total+10%		12.2	

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA–50 (kg)	CA–60 (kg)
C.1 [P19 – P12]	58	ø10	2		368		368	736	4.5	
	59	ø10	2		368		368	736	4.5	
	60	ø6.3	22		90		90	1980	4.8	
							Total+10%		15.2	
C.1 [P12 – P8]	61	ø10	2		214		214	428	2.6	
	62	ø10	2		214		214	428	2.6	
	63	ø6.3	12		90		90	1080	2.6	
							Total+10%		8.6	
C.1 [P8 – P2]	64	ø10	2		302		302	604	3.7	
	65	ø10	2		302		302	604	3.7	
	66	ø6.3	17		90		90	1530	3.7	
							Total+10%		12.2	
C.1 [P18 – P11]	67	ø10	2		368		368	736	4.5	
	68	ø10	2		368		368	736	4.5	
	69	ø6.3	22		90		90	1980	4.8	
							Total+10%		15.2	
C.1 [P11 – P7]	70	ø10	2		214		214	428	2.6	
	71	ø10	2		214		214	428	2.6	
	72	ø6.3	12		90		90	1080	2.6	
							Total+10%		8.6	
C.1 [P7 – P1]	73	ø10	2		302		302	604	3.7	
	74	ø10	2		302		302	604	3.7	
	75	ø6.3	17		90		90	1530	3.7	
							Total+10%		12.2	
C.1 [P16 – P15]	76	ø10	2		294		294	588	3.6	
	77	ø10	2		294		294	588	3.6	
	78	ø6.3	17		90		90	1530	3.7	
							Total+10%		12.0	
C.1 [P15 – P6]	79	ø10	2		281		281	562	3.5	
	80	ø10	2		281		281	562	3.5	
	81	ø6.3	16		90		90	1440	3.5	
							Total+10%		11.6	
C.1 [P16 – P18]	82	ø10	2		192		192	384	2.4	
	83	ø10	2		192		192	384	2.4	
	84	ø6.3	12		90		90	1080	2.6	
							Total+10%		8.1	
C.1 [P18 – P19]	85	ø10	2		318		318	636	3.9	
	86	ø10	2		318		318	636	3.9	
	87	ø6.3	19		90		90	1710	4.2	
							Total+10%		13.2	
C.1 [P19 – P20]	88	ø10	2		318		318	636	3.9	
	89	ø10	2		318		318	636	3.9	
	90	ø6.3	19		90		90	1710	4.2	
							Total+10%		13.2	
C.1 [P20 – P17]	91	ø10	2		296		296	592	3.6	
	92	ø10	2		296		296	592	3.6	
	93	ø6.3	19		90		90	1710	4.2	
							Total+10%		12.5	
C.1 [P11 – P12]	94	ø10	2		310		310	620	3.8	
	95	ø10	2		310		310	620	3.8	
	96	ø6.3	18		90		90	1620	4.0	
							Total+10%		12.8	
C.1 [P12 – P13]	97	ø10	2		318		318	636	3.9	
	98	ø10	2		318		318	636	3.9	
	99	ø6.3	19		90		90	1710	4.2	
							Total+10%		13.2	
C.1 [P13 – P14]	100	ø10	2		318		318	636	3.9	
	101	ø10	2		318		318	636	3.9	
	102	ø6.3	19		90		90	1710	4.2	
							Total+10%		13.2	
C.1 [P6 – P7]	103	ø10	2		218		218	436	2.7	
	104	ø10	2		218		218	436	2.7	
	105	ø6.3	12		90		90	1080	2.6	
							Total+10%		8.8	
C.1 [P1 – P2]	106	ø10	2		318		318	636	3.9	
	107	ø10	2		318		318	636	3.9	
	108	ø6.3	19		90		90	1710	4.2	
							Total+10%		13.2	
							ø6.3:		141.9	0.0
							ø10:		586.2	0.0
							ø12.5:		102.8	0.0
							Total:		830.9	0.0

Resumo Aço EL.+100,00 Detalhamento fundação		Comp. total (m)	Peso+10% (kg)	Total
CA–50	ø6.3	523.8	141	
	ø10	867.9	588	
	ø12.5	97.4	103	832

NOTAS:

1 – DIMENSÕES EM CENTÍMETRO, ELEVAÇÕES E COORDENADAS EM METRO, EXCETO ONDE INDICADO.

2 – MATERIAIS:
- CONCRETO ESTRUTURAL fck ≥30 MPa, FATOR ÁGUA/CIMENTO ≤0,6, CLASSE DE AGRESSIVIDADE AMBIENTAL II.
- CONCRETO MAGRO fck ≥10 MPa
- CONCRETO PARA ESTACA fck ≥30 MPa
- AÇO CA–50

3 – AS ELEVAÇÕES DEVEM SER CONFRONTADAS COM AS INDICADAS NO DESENHO DE ARQUITETURA.

4 – ANTES DA MONTAGEM DAS FORMAS DA FUNDAÇÃO, O FUNDO DOS ELEMENTOS DE FUNDAÇÃO DEVEM SER BEM COMPACTADOS.

5 – A ELEVAÇÃO 0,00 CORRESPONDE A ELEVAÇÃO +100,00.

PROJETO
12321/2024 - CONSTRUÇÃO SEDE GUARDA MUNICIPAL E CANIL

ASSUNTO
Projeto Estrutural - Armadura - Fundação - Prédio Veterinária

ENDEREÇO DA OBRA
Av. Domingos José Delgado - Quadra B - Lote AI3 - Eco Park Empresarial

PROPRIETÁRIO (s)
Prefeitura de Itupeva

SECRETARIA RESPONSÁVEL PELO PROJETO
Secretaria de Obras, Planejamento e Mobilidade Urbana

RESPONSÁVEL TÉCNICO	CREA/SP	ART
Eng. Joyce Modesto Aderaldo	506922591-7	2620260402509

RESPONSÁVEL PELO DESENHO
Eng. Jônatas Lima de Araújo

DATA	NÚMERO	ESCALA	FOLHA
Dezembro/2025	PMI-2025-VET-ARM-001	1:50	1/1