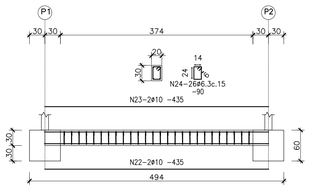
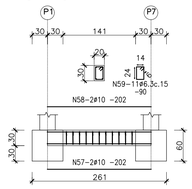
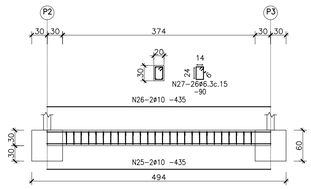
C.1 [P1 – P2]



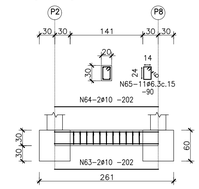
C.1 [P1 – P7]



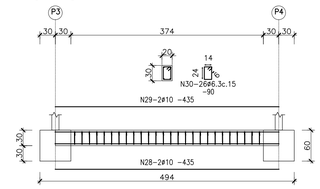
C.1 [P2 – P3]



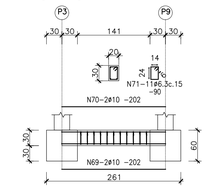
C.1 [P2 – P8]



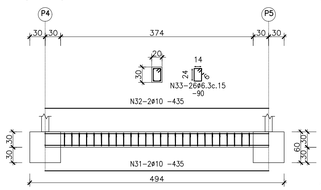
C.1 [P3 – P4]



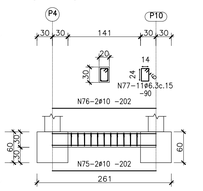
C.1 [P3 – P9]



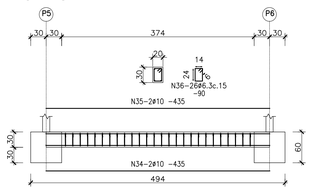
C.1 [P4 – P5]



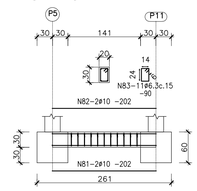
C.1 [P4 – P10]



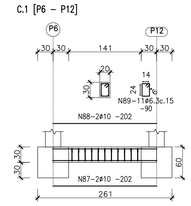
C.1 [P5 – P6]



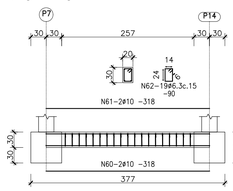
C.1 [P5 – P11]



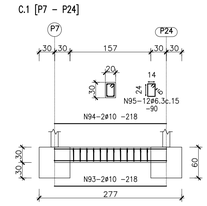
C.1 [P6 – P12]



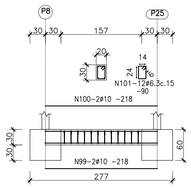
C.1 [P7 – P14]



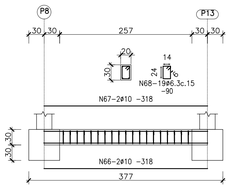
C.1 [P7 – P24]



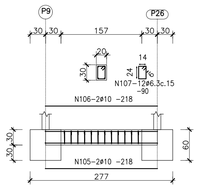
C.1 [P8 – P25]



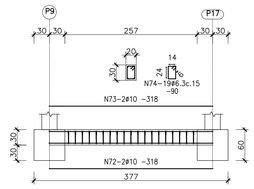
C.1 [P8 – P13]



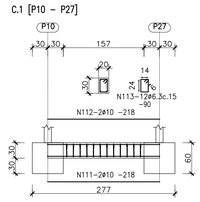
C.1 [P9 – P26]



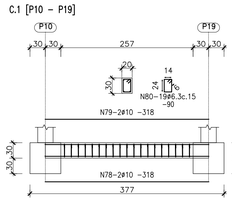
C.1 [P9 – P17]



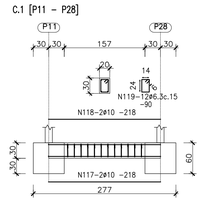
C.1 [P10 – P27]



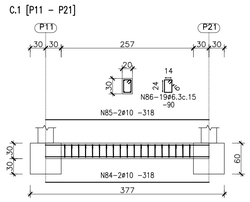
C.1 [P10 – P19]



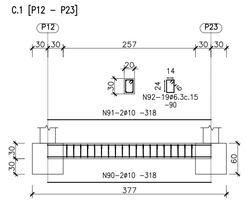
C.1 [P11 – P28]



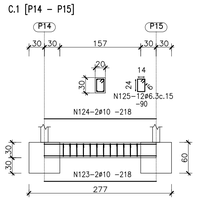
C.1 [P11 – P21]



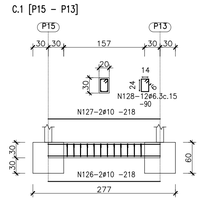
C.1 [P12 – P23]



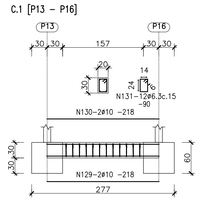
C.1 [P14 – P15]



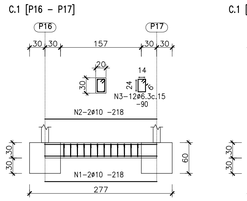
C.1 [P15 – P13]



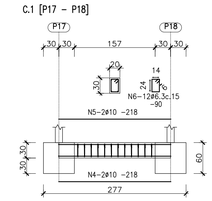
C.1 [P13 – P16]



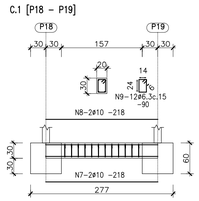
C.1 [P16 – P17]



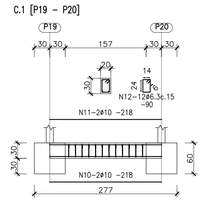
C.1 [P17 – P18]



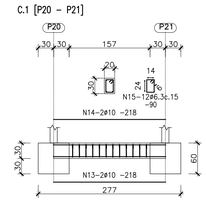
C.1 [P18 – P19]



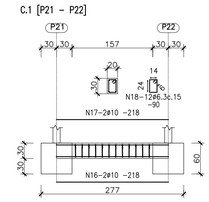
C.1 [P19 – P20]



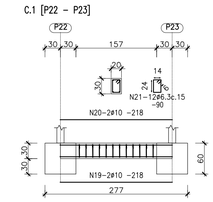
C.1 [P20 – P21]



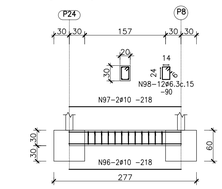
C.1 [P21 – P22]



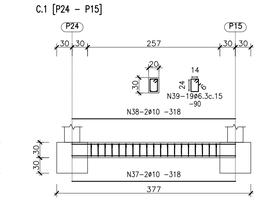
C.1 [P22 – P23]



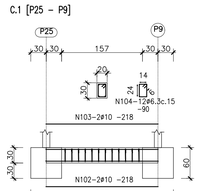
C.1 [P24 – P8]



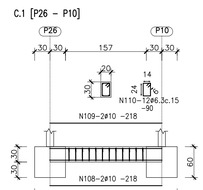
C.1 [P24 – P15]



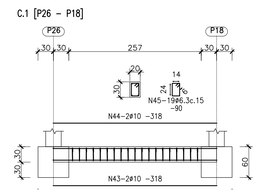
C.1 [P25 – P9]



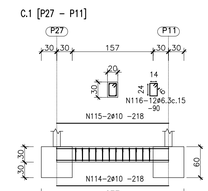
C.1 [P26 – P10]



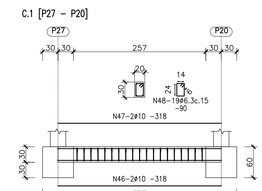
C.1 [P26 – P18]



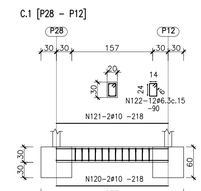
C.1 [P27 – P11]



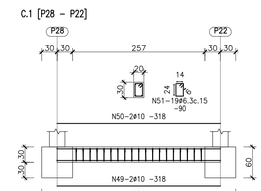
C.1 [P27 – P20]



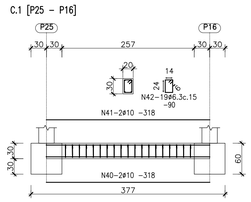
C.1 [P28 – P12]

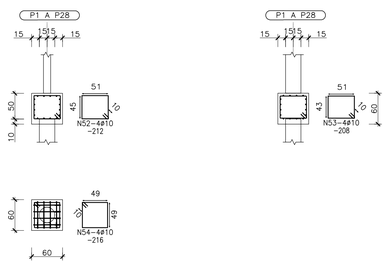


C.1 [P28 – P22]



C.1 [P25 – P16]





Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P1=P2=P3	52	ø10	4		212		212	848	5.2	
P4=P5=P6	53	ø10	4		208		208	832	5.1	
P7=P8=P9	54	ø10	4		216		216	864	5.3	
P10=P11	55	ø12.5	4	30	86		116	464	4.5	
P12=P13	56	ø6.3	3		78		78	234	0.6	
P14=P15										
P16=P17										
P18=P19										
P20=P21										
P22=P23										
P24=P25										
P26=P27										
P28										
							Total+10%:		22.8	
								(x28):	638.4	
C.1 [P1 – P7]	57	ø10	2		202		202	404	2.5	
	58	ø10	2		202		202	404	2.5	
	59	ø6.3	11		90		90	990	2.4	
							Total+10%:		8.1	
C.1 [P7 – P14]	60	ø10	2		318		318	636	3.9	
	61	ø10	2		318		318	636	3.9	
	62	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P2 – P8]	63	ø10	2		202		202	404	2.5	
	64	ø10	2		202		202	404	2.5	
	65	ø6.3	11		90		90	990	2.4	
							Total+10%:		8.1	
C.1 [P8 – P13]	66	ø10	2		318		318	636	3.9	
	67	ø10	2		318		318	636	3.9	
	68	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P3 – P9]	69	ø10	2		202		202	404	2.5	
	70	ø10	2		202		202	404	2.5	
	71	ø6.3	11		90		90	990	2.4	
							Total+10%:		8.1	
C.1 [P9 – P17]	72	ø10	2		318		318	636	3.9	
	73	ø10	2		318		318	636	3.9	
	74	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P4 – P10]	75	ø10	2		202		202	404	2.5	
	76	ø10	2		202		202	404	2.5	
	77	ø6.3	11		90		90	990	2.4	
							Total+10%:		8.1	
C.1 [P10 – P19]	78	ø10	2		318		318	636	3.9	
	79	ø10	2		318		318	636	3.9	
	80	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P5 – P11]	81	ø10	2		202		202	404	2.5	
	82	ø10	2		202		202	404	2.5	
	83	ø6.3	11		90		90	990	2.4	
							Total+10%:		8.1	
C.1 [P11 – P21]	84	ø10	2		318		318	636	3.9	
	85	ø10	2		318		318	636	3.9	
	86	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P6 – P12]	87	ø10	2		202		202	404	2.5	
	88	ø10	2		202		202	404	2.5	
	89	ø6.3	11		90		90	990	2.4	
							Total+10%:		8.1	
C.1 [P12 – P23]	90	ø10	2		318		318	636	3.9	
	91	ø10	2		318		318	636	3.9	
	92	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P7 – P24]	93	ø10	2		218		218	436	2.7	
	94	ø10	2		218		218	436	2.7	
	95	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P24 – P8]	96	ø10	2		218		218	436	2.7	
	97	ø10	2		218		218	436	2.7	
	98	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P8 – P25]	99	ø10	2		218		218	436	2.7	
	100	ø10	2		218		218	436	2.7	
	101	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P25 – P9]	102	ø10	2		218		218	436	2.7	
	103	ø10	2		218		218	436	2.7	
	104	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P9 – P26]	105	ø10	2		218		218	436	2.7	
	106	ø10	2		218		218	436	2.7	
	107	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P26 – P10]	108	ø10	2		218		218	436	2.7	
	109	ø10	2		218		218	436	2.7	
	110	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P10 – P27]	111	ø10	2		218		218	436	2.7	
	112	ø10	2		218		218	436	2.7	
	113	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P27 – P11]	114	ø10	2		218		218	436	2.7	
	115	ø10	2		218		218	436	2.7	
	116	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
C.1 [P11 – P28]	117	ø10	2		218		218	436	2.7	
	118	ø10	2		218		218	436	2.7	
	119	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P28 – P12]	120	ø10	2		218		218	436	2.7	
	121	ø10	2		218		218	436	2.7	
	122	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P14 – P15]	123	ø10	2		218		218	436	2.7	
	124	ø10	2		218		218	436	2.7	
	125	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P15 – P13]	126	ø10	2		218		218	436	2.7	
	127	ø10	2		218		218	436	2.7	
	128	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P13 – P16]	129	ø10	2		218		218	436	2.7	
	130	ø10	2		218		218	436	2.7	
	131	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P16 – P17]	1	ø10	2		218		218	436	2.7	
	2	ø10	2		218		218	436	2.7	
	3	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P17 – P18]	4	ø10	2		218		218	436	2.7	
	5	ø10	2		218		218	436	2.7	
	6	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P18 – P19]	7	ø10	2		218		218	436	2.7	
	8	ø10	2		218		218	436	2.7	
	9	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P19 – P20]	10	ø10	2		218		218	436	2.7	
	11	ø10	2		218		218	436	2.7	
	12	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P20 – P21]	13	ø10	2		218		218	436	2.7	
	14	ø10	2		218		218	436	2.7	
	15	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P21 – P22]	16	ø10	2		218		218	436	2.7	
	17	ø10	2		218		218	436	2.7	
	18	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P22 – P23]	19	ø10	2		218		218	436	2.7	
	20	ø10	2		218		218	436	2.7	
	21	ø6.3	12		90		90	1080	2.6	
							Total+10%:		8.8	
C.1 [P1 – P2]	22	ø10	2		435		435	870	5.4	
	23	ø10	2		435		435	870	5.4	
	24	ø6.3	26		90		90	2340	5.7	
							Total+10%:		18.2	
C.1 [P2 – P3]	25	ø10	2		435		435	870	5.4	
	26	ø10	2		435		435	870	5.4	
	27	ø6.3	26		90		90	2340	5.7	
							Total+10%:		18.2	
C.1 [P3 – P4]	28	ø10	2		435		435	870	5.4	
	29	ø10	2		435		435	870	5.4	
	30	ø6.3	26		90		90	2340	5.7	
							Total+10%:		18.2	
C.1 [P4 – P5]	31	ø10	2		435		435	870	5.4	
	32	ø10	2		435		435	870	5.4	
	33	ø6.3	26		90		90	2340	5.7	
							Total+10%:		18.2	
C.1 [P5 – P6]	34	ø10	2		435		435	870	5.4	
	35	ø10	2		435		435	870	5.4	
	36	ø6.3	26		90		90	2340	5.7	
							Total+10%:		18.2	
C.1 [P24 – P15]	37	ø10	2		318		318	636	3.9	
	38	ø10	2		318		318	636	3.9	
	39	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P25 – P16]	40	ø10	2		318		318	636	3.9	
	41	ø10	2		318		318	636	3.9	
	42	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P26 – P18]	43	ø10	2		318		318	636	3.9	
	44	ø10	2		318		318	636	3.9	
	45	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P27 – P20]	46	ø10	2		318		318	636	3.9	
	47	ø10	2		318		318	636	3.9	
	48	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
C.1 [P28 – P22]	49	ø10	2		318		318	636	3.9	
	50	ø10	2		318		318	636	3.9	
	51	ø6.3	19		90		90	1710	4.2	
							Total+10%:		13.2	
							ø6.3:	175.3	0.0	
							ø10:	786.7	0.0	
							ø12.5:	137.2	0.0	
							Total:	1099.2	0.0	

Resumo Aço El.+100,00 Detalhamento fundação		Comp. total (m)	Peso+10% (kg)	Total
CA-50	ø6.3	646.0	174	
	ø10	1162.1	788	
	ø12.5	129.9	138	1100

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 I.
- 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

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	506.922.591-7	2620260402509

RESPONSÁVEL PELO DESENHO
Eng. Jônatas Lima de Araújo

DATA	NÚMERO	ESCALA	FOLHA
Dezembro/2025	PMI-2025-CAN-ARM-FUN-001	Indicada	1/1