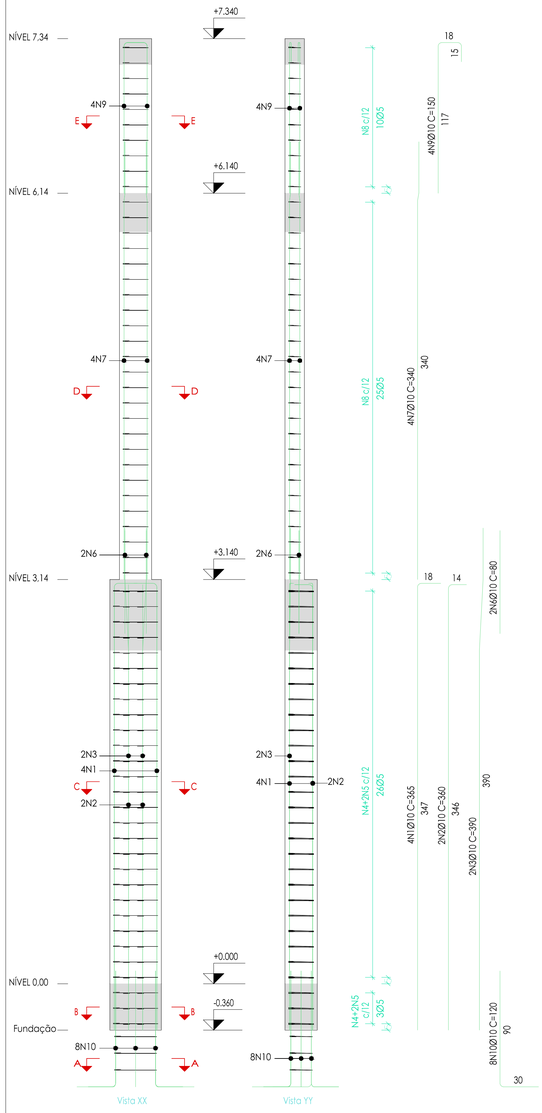
P17

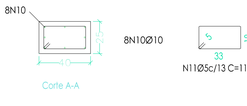


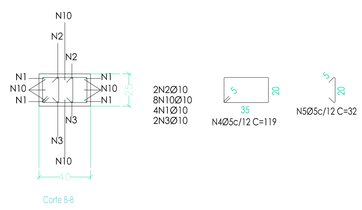
Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
1	Ø10	4	365	1460
2	Ø10	2	360	720
3	Ø10	2	390	780
4	Ø5	29	119	3451
5	Ø5	58	32	1856
6	Ø10	2	80	160
7	Ø10	4	340	1360
8	Ø5	35	69	2415
9	Ø10	4	150	600
10	Ø10	8	120	960
11	Ø5	3	111	333







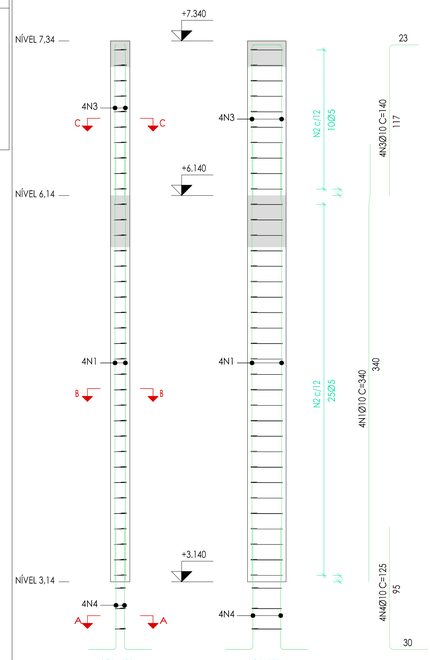




Escala 1:20

Planta	Dimensão (cm)	Concreto Tipo: C25, em geral Cobrimento: 2,5 cm Volume (m3)	Concreto Fôrmas (m2)	Armaduras CA-50 e CA-60 Longitudinal (kg)	Armaduras CA-50 e CA-60 Estribos (kg)	Armaduras CA-50 e CA-60 Total +10 % (kg)	Taxa (kg/m3)
NÍVEL 7.34	25x15	0.05	0.96	3.7	1.1	5.3	106.67
NÍVEL 6.14		0.11	2.40	8.4	2.7	12.2	98.67
NÍVEL 3.14	40x25	0.31	4.08	1.0	7.5	9.4	27.07
NÍVEL 0.00		0.04	0.47	18.2	0.9	21.0	530.56
Total		0.51	7.91	31.3	12.1	47.9	85.71

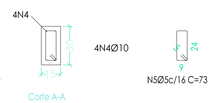
P32



Pos.	Diam.	Q.	Comp. (cm)	Total (cm)
1	Ø10	4	340	1360
2	Ø5	35	79	2765
3	Ø10	4	140	560
4	Ø10	4	125	500
5	Ø5	3	73	219







Escala 1:20

Planta	Dimensão (cm)	Concreto Tipo: C25, em geral Cobrimento: 2,5 cm Volume (m3)	Concreto Fôrmas (m2)	Armaduras CA-50 e CA-60 Longitudinal (kg)	Armaduras CA-50 e CA-60 Estribos (kg)	Armaduras CA-50 e CA-60 Total +10 % (kg)	Taxa (kg/m3)
NÍVEL 7.34	15x30	0.05	1.08	3.5	1.2	5.2	87.04
NÍVEL 6.14		0.14	2.70	8.4	3.1	12.7	85.19
Total		0.19	3.78	11.8	4.3	17.9	85.71

Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P17	1	Ø10	4				365	1460	9.0	
	2	Ø10	2				360	720	4.4	
	3	Ø10	2				390	780	4.8	
	4	Ø5	29				119	3451		5.4
	5	Ø5	58				32	1856		2.9
	6	Ø10	2				80	160	1.0	
	7	Ø10	4				340	1360	8.4	
	8	Ø5	35				69	2415		3.8
	9	Ø10	4				150	600	3.7	
	10	Ø10	8				120	960	5.9	
	11	Ø5	3				111	333		0.5
								Total+10%:	40.9	13.9
P32	1	Ø10	4				340	1360	8.4	
	2	Ø5	35				79	2765		4.3
	3	Ø10	4				140	560	3.5	
	4	Ø10	4				125	500	3.1	
	5	Ø5	3				73	219		0.3
								Total+10%:	16.5	5.1
								Ø5:	0.0	19.0
								Ø10:	57.4	0.0
								Total:	57.4	19.0

CSPB - BARBAGALLO

GIULIANO BARBAGALLO
ENGENHEIRO CIVIL CREA 5069067476
ROD. TANCREDO NEVES, 1940 CAPIM AZEDO-IBIUNA/SP FONE: 15 - 99793-0613

GIULIANO BARBAGALLO:30197886841

Assinado de forma digital por GIULIANO BARBAGALLO:30197886841
Dados: 2026.03.31 10:13:40 -03'00'

ASSUNTO	PILARES		ART: 2620260778629
PROPRIETÁRIO	CAMARA MUNICIPAL DA ESTANCIA TURISTICA DE IBIUNA		
ESCALA	INDICADAS	DATA 02/2026	DES. GIULIANO / FL. 08/19