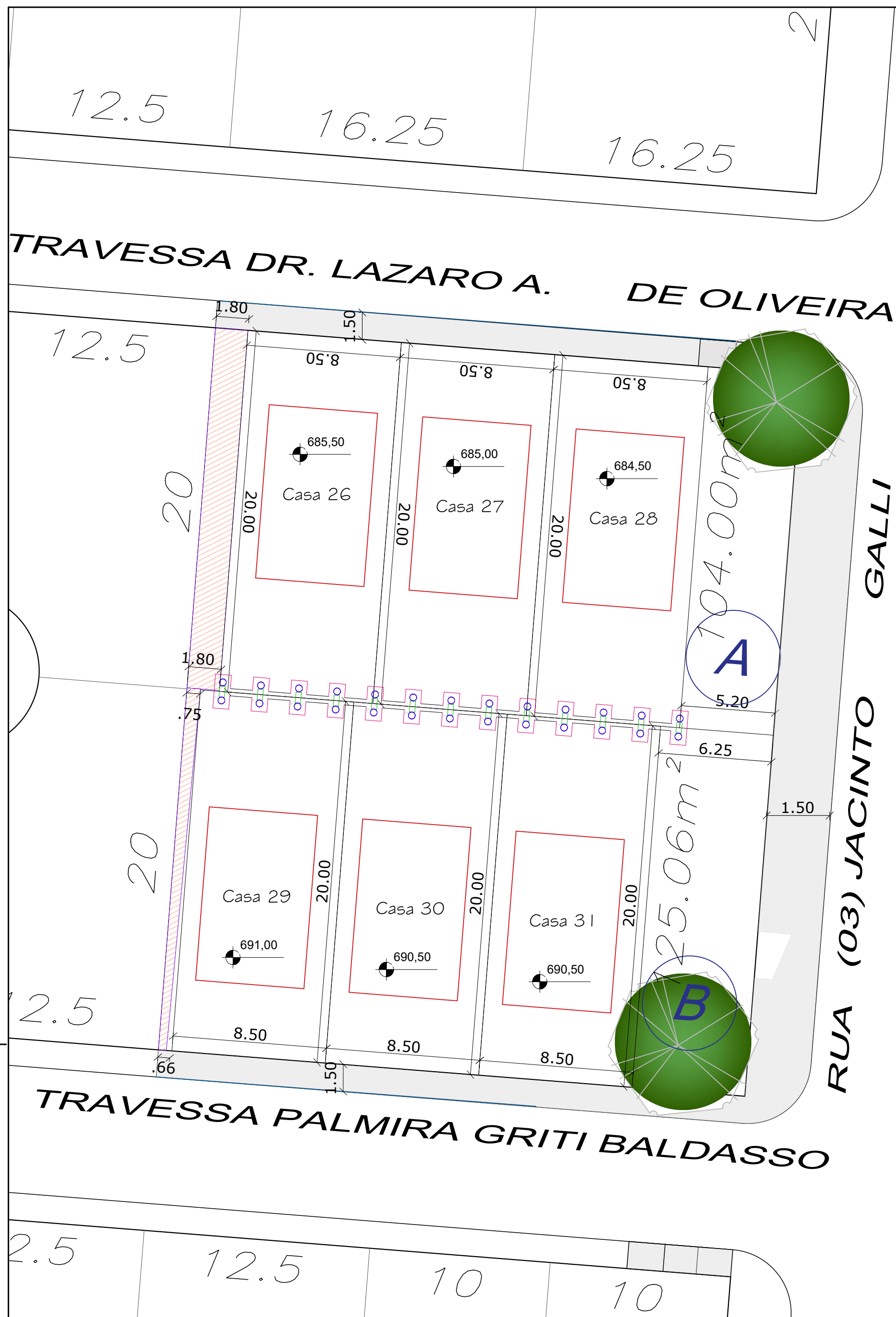
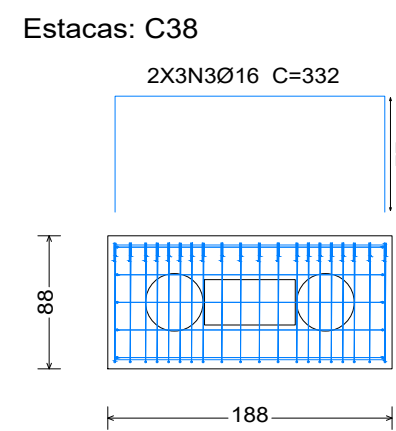




PROJETO DE IMPLANTAÇÃO

Esc 1:200



Resumo Aço Fundação			
Detalhamento fundação			
CA-50	Ø6.3	273.5	74
	Ø10	10.4	7
	Ø12.5	1542.4	1634
	Ø16	680.9	1182
CA-60	Ø5	65.5	11
Total			2908

Resumo Aço Fundação		Comp. total (m)	Peso+10% (kg)	Total
Detalhamento fundação				
CA-50	Ø6.3	273.5	74	2897
	Ø10	10.4	7	
	Ø12.5	1542.4	1634	
	Ø16	680.9	1182	
CA-60	Ø5	65.5	11	11
Total				2908

Quadro de arranques			
Referências	Armaduras Carbox	Armaduras Face X	Armaduras Face Y
P1	4Ø16 (30+68+120)	4Ø10 (30+68+176)	14Ø12.5 (30+68+94)
P2, P3, P4, P5, P6, P7, P8, P9, P10, P11 e P12	4Ø16 (30+68+120)		12Ø16 (30+68+120)
P13	4Ø16 (30+83+120)	2Ø10 (30+83+76)	8Ø12.5 (30+83+94)

Fundação
Detalhamento fundação
Concreto: C25, em geral
Escala: 1:50

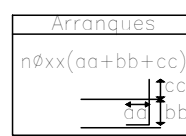
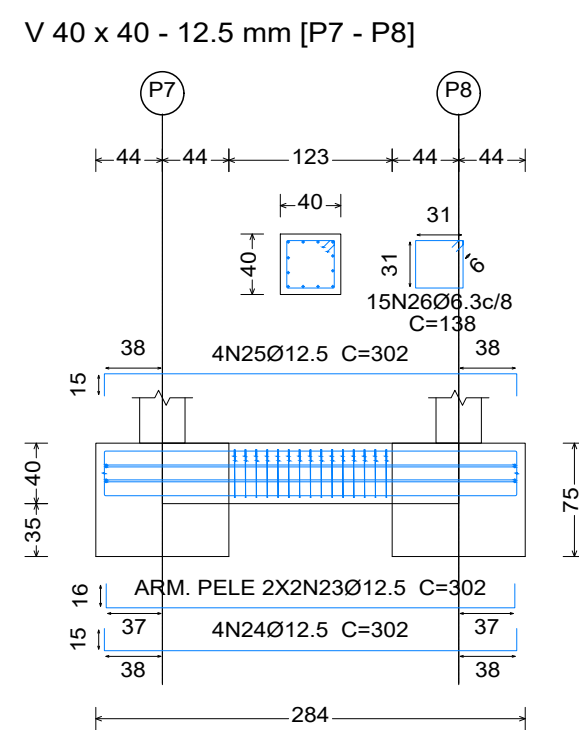
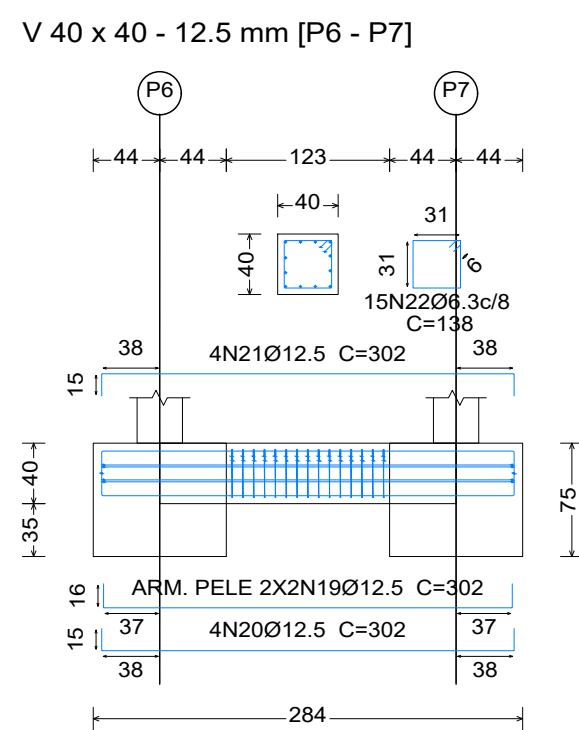
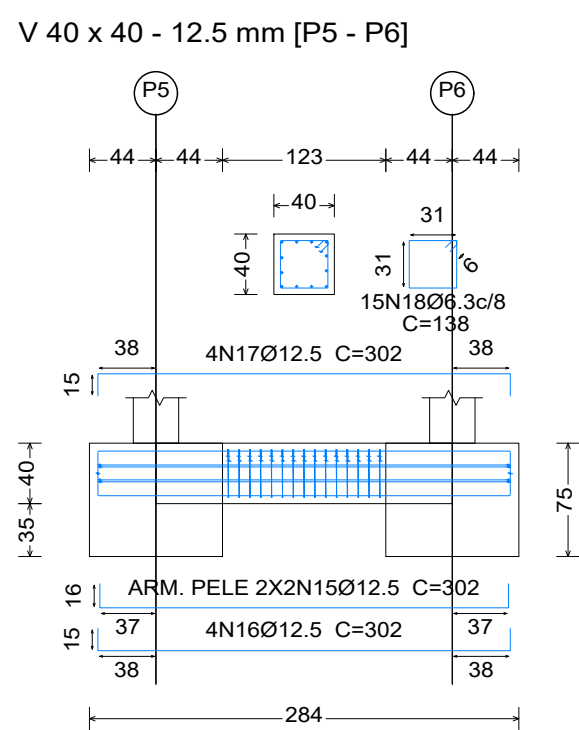
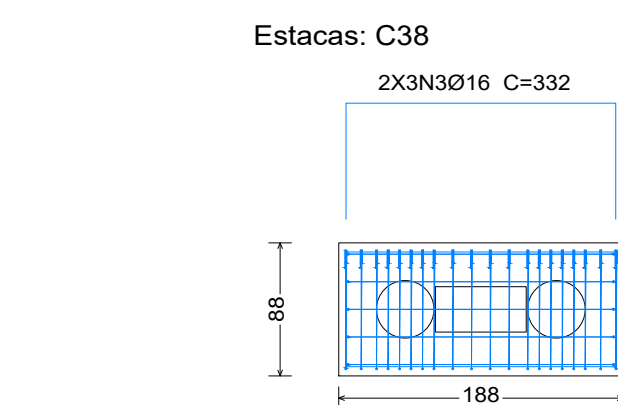
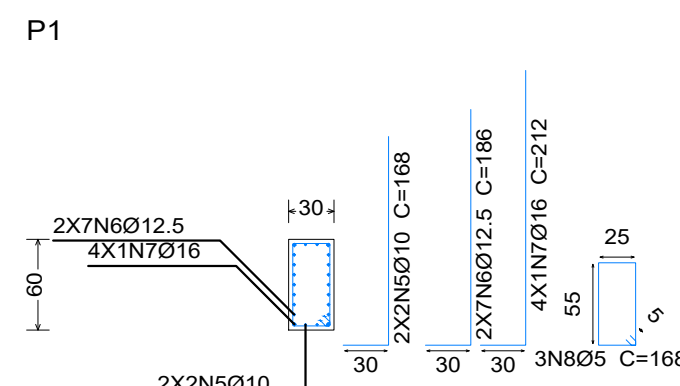
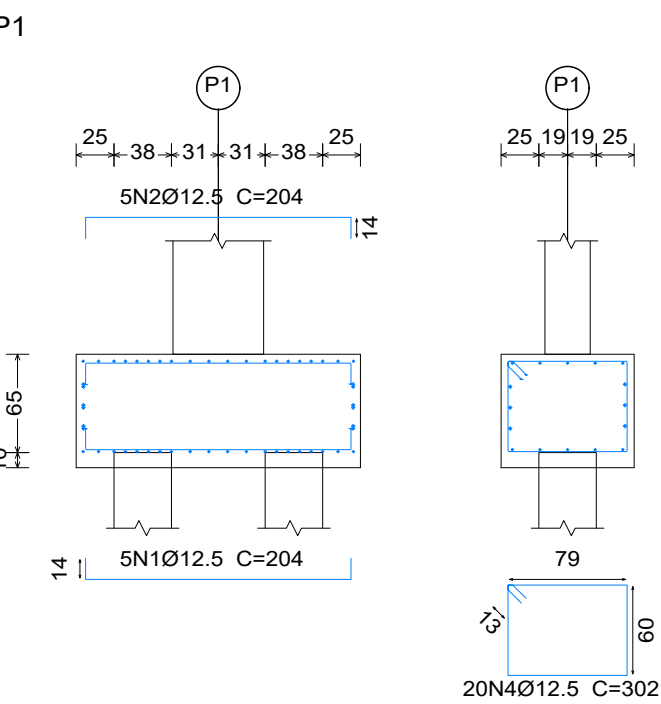
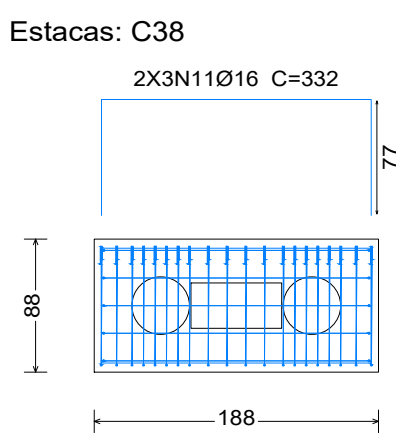
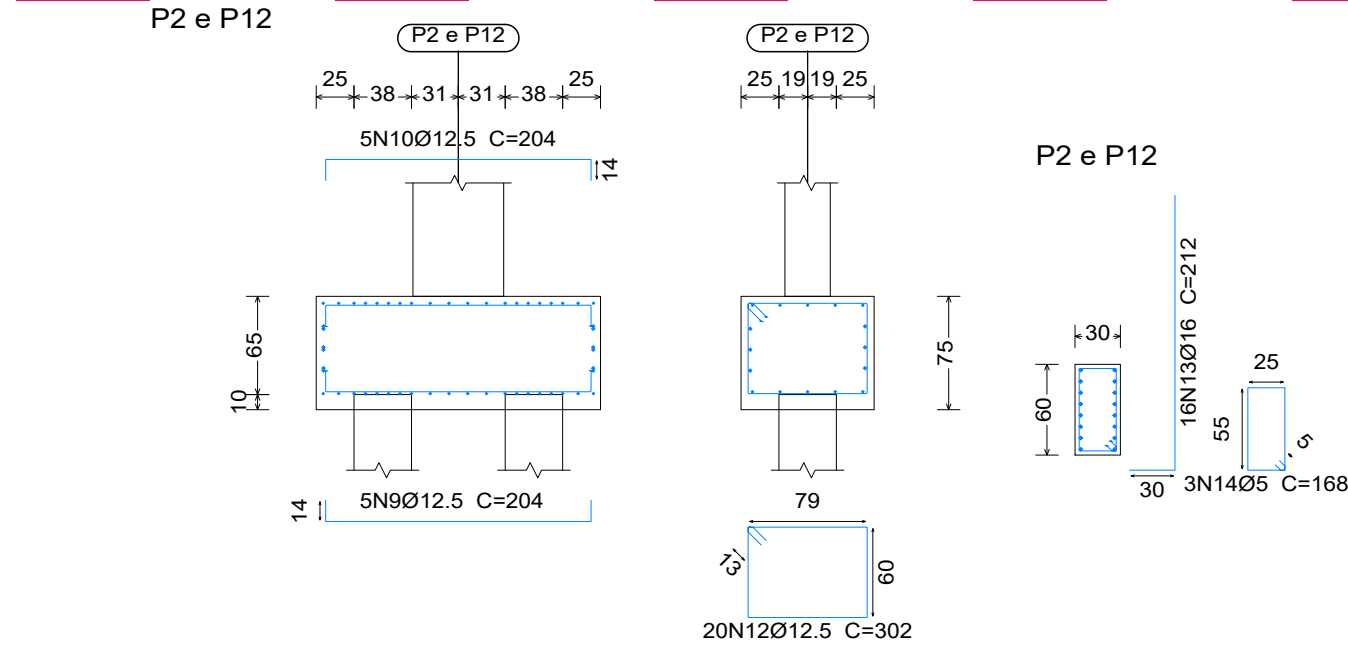
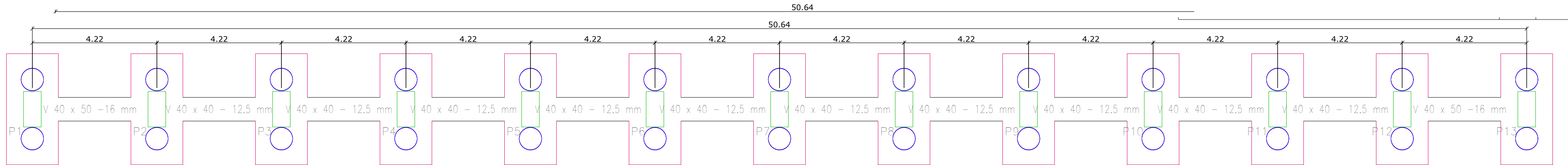
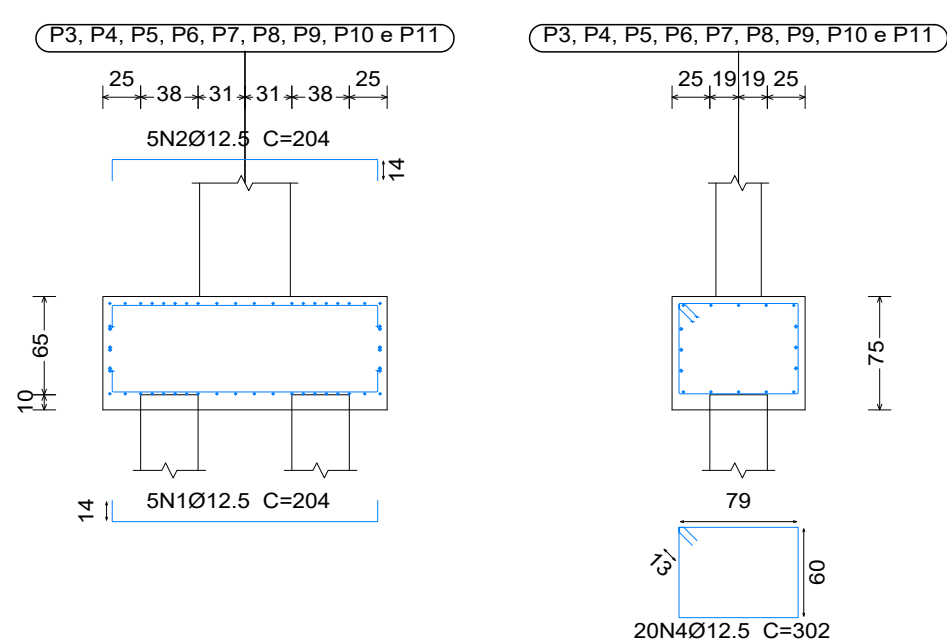


Tabela de vigas de equilíbrio	
V 40 x 40 - 12.5 mm Arm. sup.: 4Ø12.5 CA-50 Arm. inf.: 4Ø16 CA-50 Arm. pele: 2x2Ø12.5 CA-50 Estribos: 1xØ6.3 CA-50c/8	V 40 x 50 - 16 mm Arm. sup.: 4Ø16 CA-50 Arm. inf.: 4Ø16 CA-50 Arm. pele: 2x2Ø12.5 CA-50 Estribos: 1xØ6.3 CA-50c/10

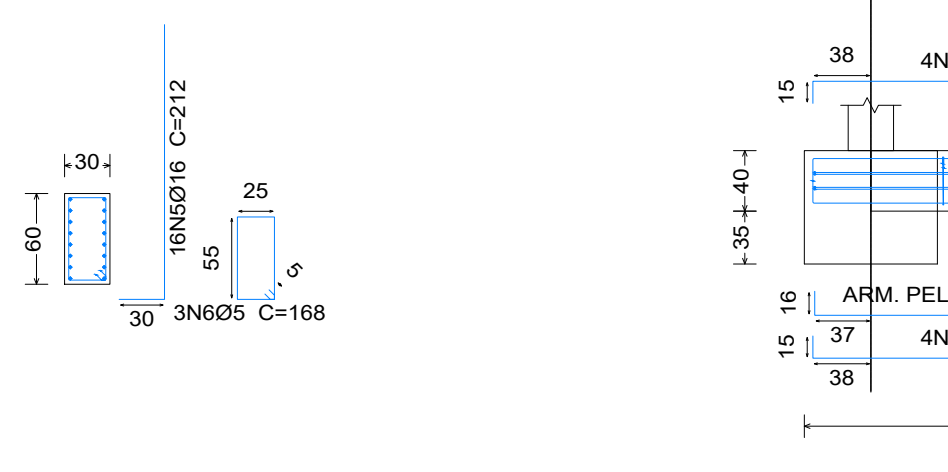
QUADRO DE ELEMENTOS DE FUNDAÇÃO					
Referências	Dimensões (cm)	Altura (cm)	Estacas	Armadura inf. X	Armadura sup. X
P1	188 x 88	75	Tipo C38, Penetração 10 cm	5Ø12.5	5Ø12.5
P2 e P12	188 x 88	75	Tipo C38, Penetração 10 cm	5Ø12.5	5Ø12.5
P3, P4, P5, P6, P7, P8, P9, P10 e P11	188 x 88	75	Tipo C38, Penetração 10 cm	5Ø12.5	5Ø12.5
P13	188 x 88	90	Tipo C38, Penetração 10 cm	6Ø12.5	6Ø12.5



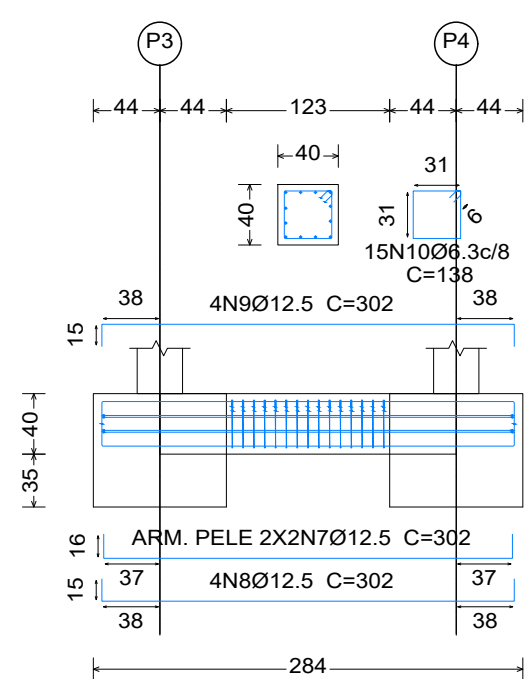
P3, P4, P5, P6, P7, P8, P9, P10 e P11



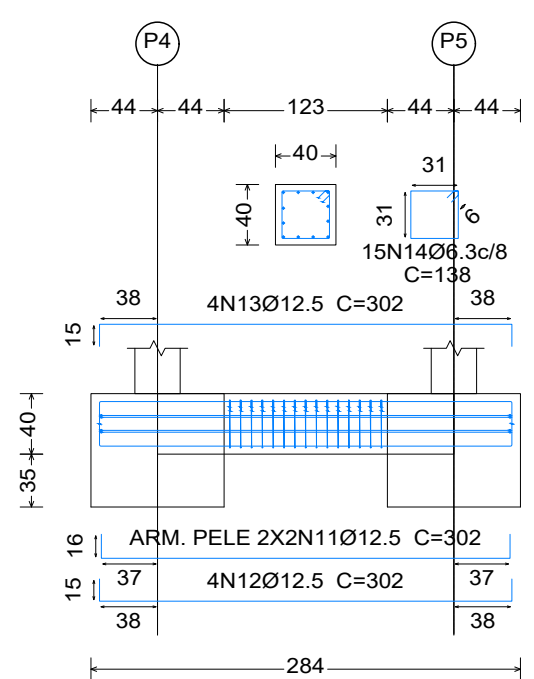
P3, P4, P5, P6, P7, P8, P9, P10 e P11



V 40 x 40 - 12.5 mm [P3 - P4]



V 40 x 40 - 12.5 mm [P4 - P5]



Elemento	Pos.	Diam.	Q.	Dob.	Reta	Dob.	Comp.	Total	CA-50	CA-60
(cm) (cm) (cm) (cm) (cm) (cm) (cm) (cm) (cm) (kg) (kg)										
P3=P4=P5=P6=P7 P8=P9=P10=P11	1	Ø12.5	5	14	176	14	204	1020	9.8	
	2	Ø12.5	5	14	176	14	204	1020	9.8	
	3	Ø16	6		332		332	1992	31.4	
	4	Ø12.5	20		302		302	6040	58.2	
	5	Ø16	16	30	182	212	3392	53.5		
	6	Ø5	3		168		168	504		0.8
Total+10%:									179.0	0.9
(x9):									1611.0	8.1
V 40 x 40 - 12.5 mm [P3 - P4]	7	Ø12.5	4		302		302	1208	11.6	
	8	Ø12.5	4	15	272	15	302	1208	11.6	
	9	Ø12.5	4	15	272	15	302	1208	11.6	
	10	Ø6.3	15		138		138	2070	5.1	
Total+10%:									43.9	
V 40 x 40 - 12.5 mm [P4 - P5]	11	Ø12.5	4		302		302	1208	11.6	
	12	Ø12.5	4	15	272	15	302	1208	11.6	
	13	Ø12.5	4	15	272	15	302	1208	11.6	
	14	Ø6.3	15		138		138	2070	5.1	
Total+10%:									43.9	
Ø5:									0.0	8.1
Ø6.3:									11.2	0.0
Ø12.5:									847.0	0.0
Ø16:									840.6	0.0
Total:									1698.8	8.1

PREFEITURA MUNICIPAL DE PEDREIRA
CNPJ - 45410775/0001-36

AUTOR DO PROJETO
MATEUS ALMEIDA PEREIRA
CREA: 5071145490

ESPAÇO PARA APROVAÇÃO DO PROJETO

MURO DE ARRIMO - TERRENO RUA JACINTO GALLI

IMPLANTAÇÃO E DETALHES MURO DE ARRIMO

PROPRIET: PREFEITURA MUNICIPAL DE PEDREIRA

OBRA MURO DE ARRIMO - TERRENO RUA JACINTO GALLI

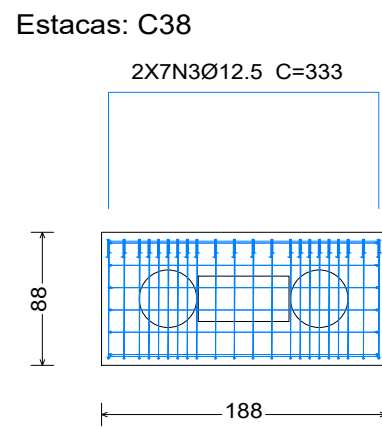
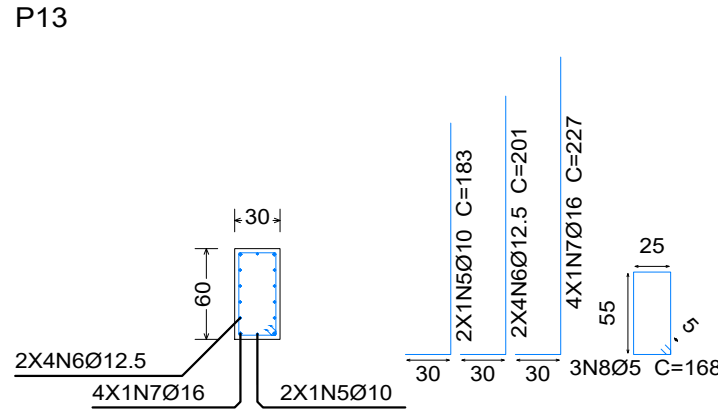
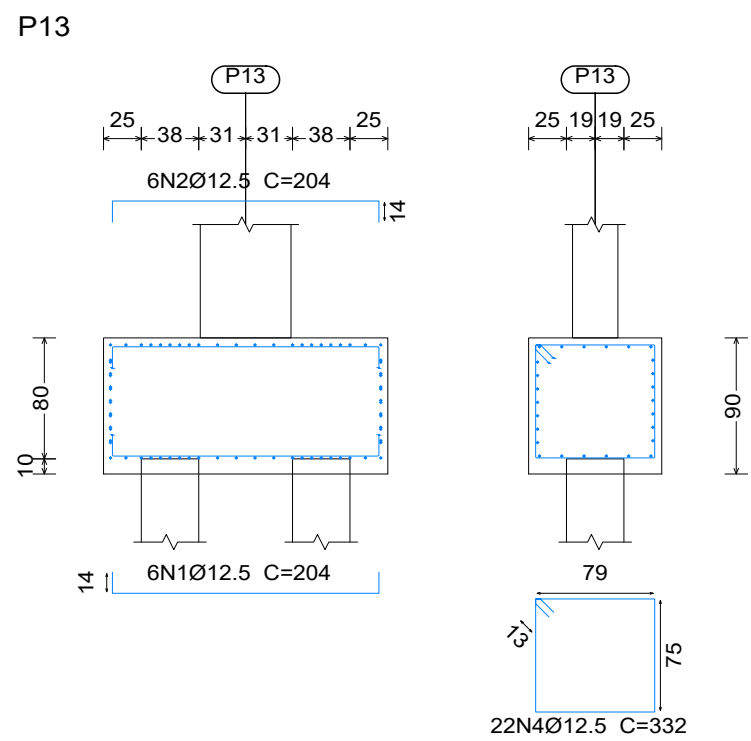
LOCAL RUA CARLOS VIARO E TRAVESSA RAFAEL ZANINI

DATA 06/02/2026

ESCALA IND.

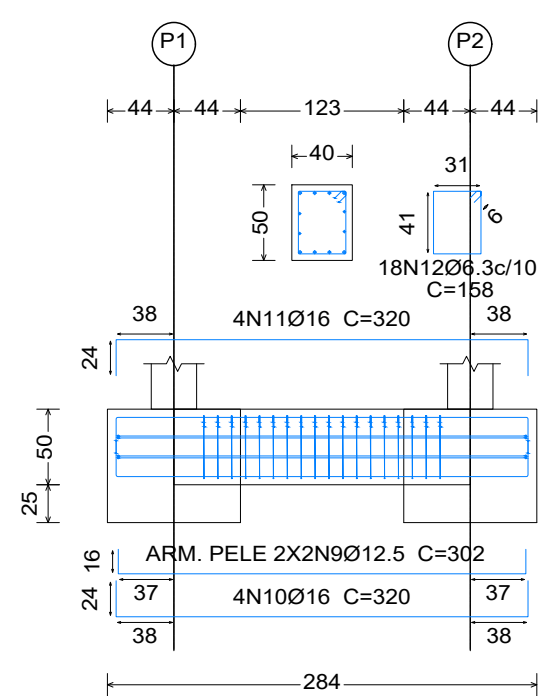
FOLHA

01

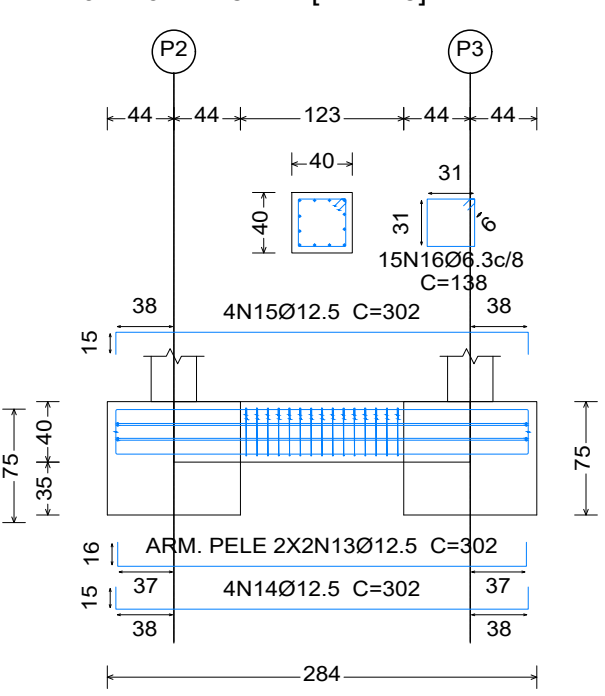


Resumo Aço Fundação	Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø6.3	273.5	74
	Ø10	10.4	7
	Ø12.5	1542.4	1634
	Ø16	680.9	1182
CA-60	Ø5	65.5	11
Total			2908

V 40 x 50 -16 mm [P1 - P2]

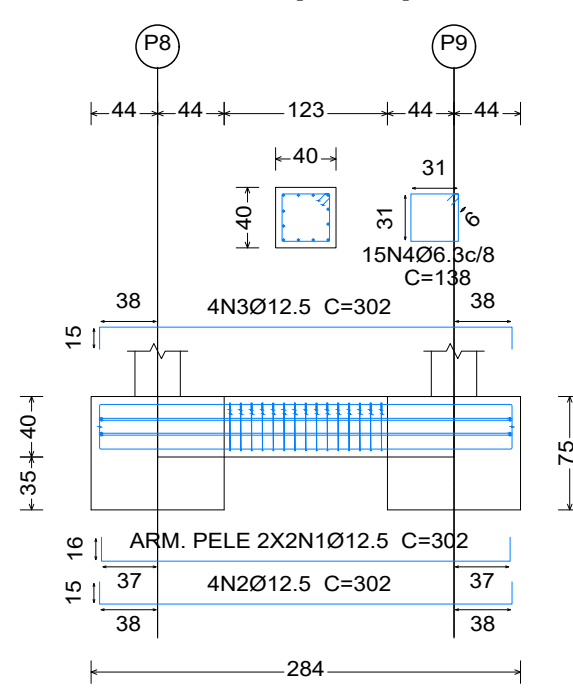


V 40 x 40 - 12.5 mm [P2 - P3]



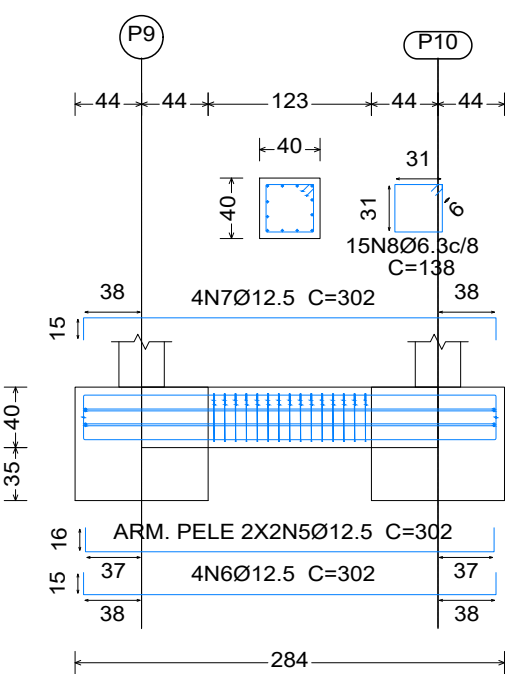
Elemento	Pos.	Diam.	Q.	Dob.	Reta	Dob.	Comp.	Total	CA-50	CA-60
		(cm)		(cm)	(cm)	(cm)	(cm)	(cm)	(kg)	(kg)
P13	1	Ø12.5	6	14	176	14	204	1224	11.8	
	2	Ø12.5	6	14	176	14	204	1224	11.8	
	3	Ø12.5	14		333		333	4662	44.9	
	4	Ø12.5	22		332		332	7304	70.4	
	5	Ø10	2	30	153		183	366	2.3	
	6	Ø12.5	8	30	171		201	1608	15.5	
	7	Ø16	4	30	197		227	908	14.3	
	8	Ø5	3		168		168	504		0.8
Total+10%:									188.1	0.9
V 40 x 50 -16 mm [P1 - P2]	9	Ø12.5	4		302		302	1208	11.6	
	10	Ø16	4	24	272	24	320	1280	20.2	
	11	Ø16	4	24	272	24	320	1280	20.2	
	12	Ø6.3	18		158		158	2844	7.0	
Total+10%:									64.9	
V 40 x 40 - 12.5 mm [P2 - P3]	13	Ø12.5	4		302		302	1208	11.6	
	14	Ø12.5	4	15	272	15	302	1208	11.6	
	15	Ø12.5	4	15	272	15	302	1208	11.6	
	16	Ø6.3	15		138		138	2070	5.1	
Total+10%:									43.9	
									Ø5:	0.0
									Ø6.3:	13.3
									Ø10:	2.6
									Ø12.5:	220.9
									Ø16:	60.1
									Total:	296.9

V 40 x 40 - 12.5 mm [P8 - P9]

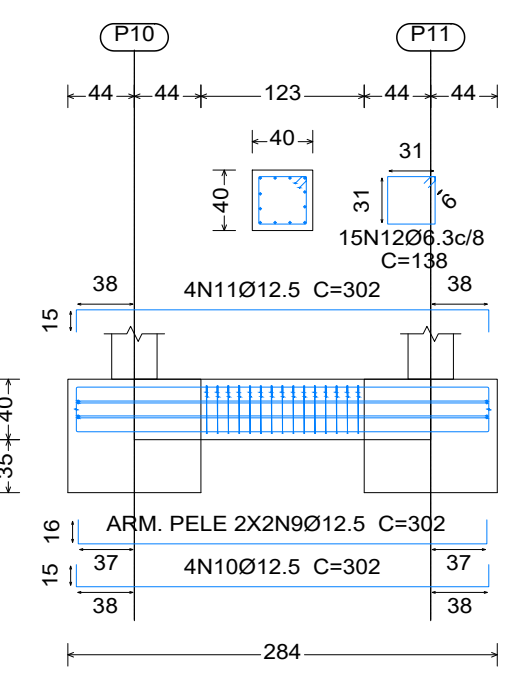


Resumo Aço Fundação	Comp. total (m)	Peso+10% (kg)	Total
CA-50	Ø6.3	273.5	74
	Ø10	10.4	7
	Ø12.5	1542.4	1634
	Ø16	680.9	1182
CA-60	Ø5	65.5	11
Total			2908

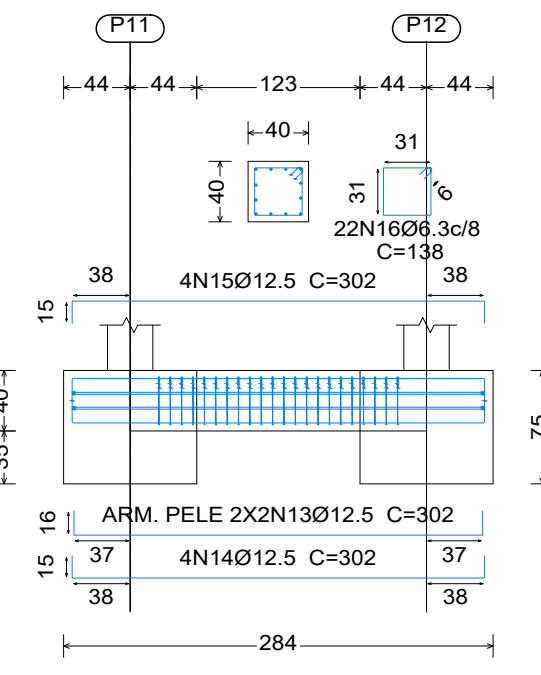
V 40 x 40 - 12.5 mm [P9 - P10]



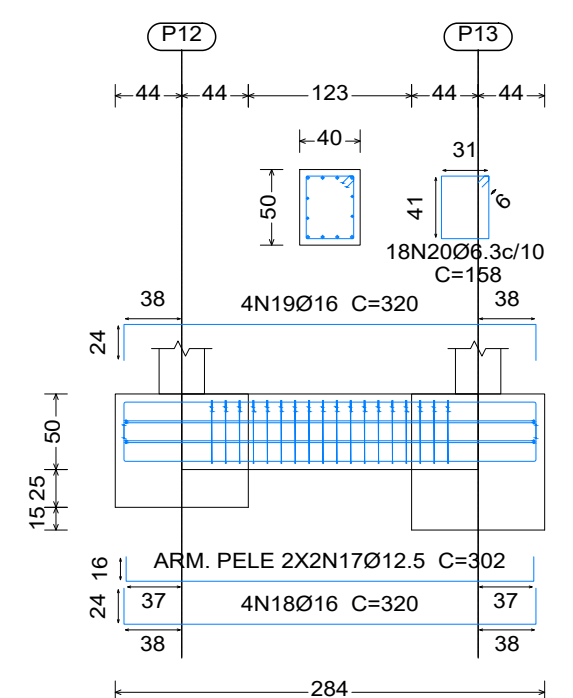
V 40 x 40 - 12.5 mm [P10 - P11]



V 40 x 40 - 12.5 mm [P11 - P12]

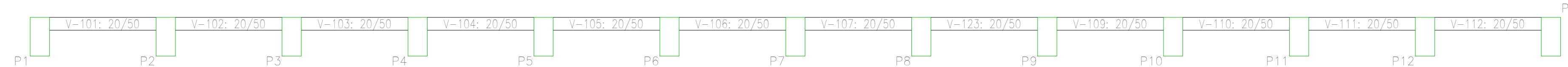


V 40 x 50 -16 mm [P12 - P13]

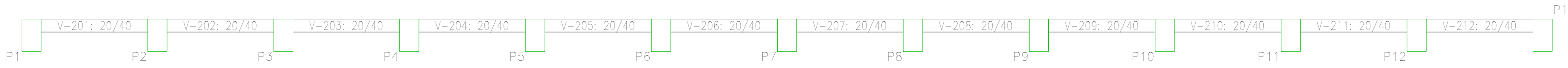


Elemento	Pos.	Diam.	Q.	Dob.	Reta	Dob.	Comp.	Total	CA-50	CA-60
		(cm)		(cm)	(cm)	(cm)	(cm)	(cm)	(kg)	(kg)
V 40 x 40 - 12.5 mm [P8 - P9]	1	Ø12.5	4		302		302	1208	11.6	
	2	Ø12.5	4	15	272	15	302	1208	11.6	
	3	Ø12.5	4	15	272	15	302	1208	11.6	
	4	Ø6.3	15		138		138	2070	5.1	
Total+10%:									43.9	
V 40 x 40 - 12.5 mm [P9 - P10]	5	Ø12.5	4		302		302	1208	11.6	
	6	Ø12.5	4	15	272	15	302	1208	11.6	
	7	Ø12.5	4	15	272	15	302	1208	11.6	
	8	Ø6.3	15		138		138	2070	5.1	
Total+10%:									43.9	
V 40 x 40 - 12.5 mm [P10 - P11]	9	Ø12.5	4		302		302	1208	11.6	
	10	Ø12.5	4	15	272	15	302	1208	11.6	
	11	Ø12.5	4	15	272	15	302	1208	11.6	
	12	Ø6.3	15		138		138	2070	5.1	
Total+10%:									43.9	
V 40 x 40 - 12.5 mm [P11 - P12]	13	Ø12.5	4		302		302	1208	11.6	
	14	Ø12.5	4	15	272	15	302	1208	11.6	
	15	Ø12.5	4	15	272	15	302	1208	11.6	
	16	Ø6.3	22		138		138	3036	7.4	
Total+10%:									46.4	
V 40 x 50 -16 mm [P12 - P13]	17	Ø12.5	4		302		302	1208	11.6	
	18	Ø16	4	24	272	24	320	1280	20.2	
	19	Ø16	4	24	272	24	320	1280	20.2	
	20	Ø6.3	18		158		158	2844	7.0	
Total+10%:									64.9	
									Ø6.3:	32.6
									Ø12.5:	166.0
									Ø16:	44.4
									Total:	243.0

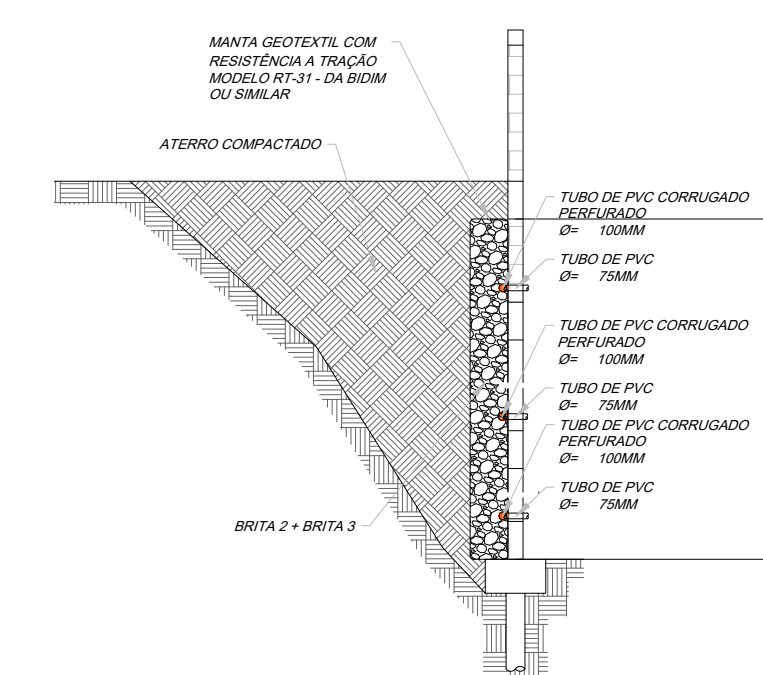
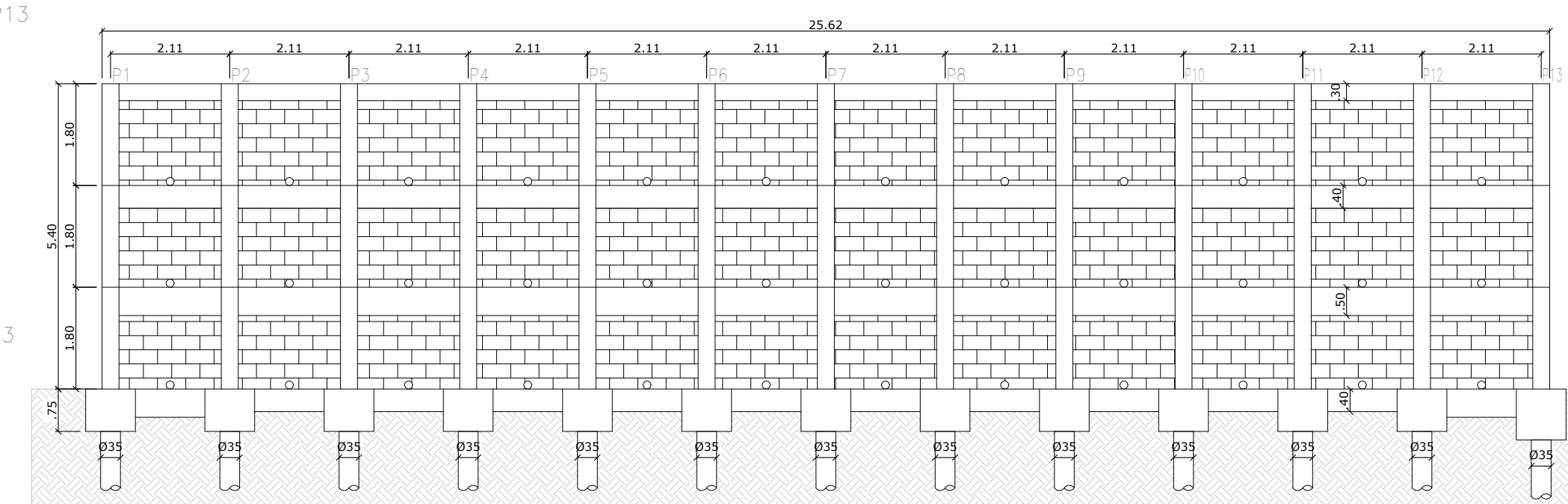
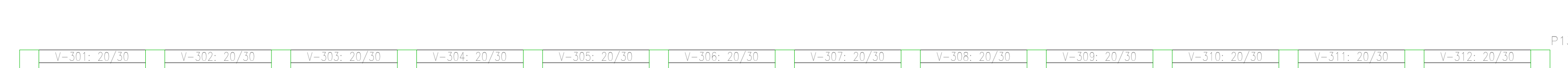
Piso 1
Detalhamento fundação
Concreto: C25, em geral
Escala: 1:50



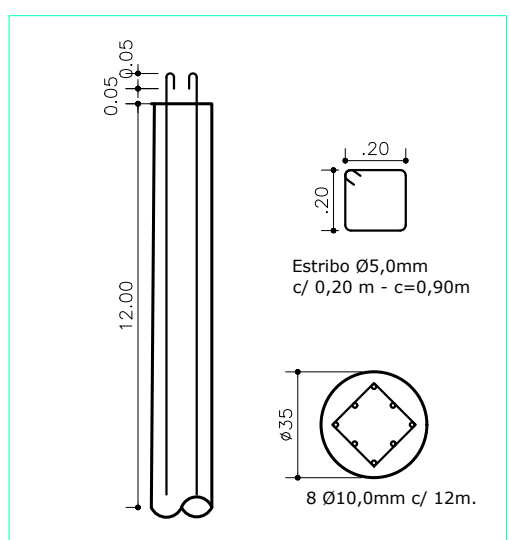
Piso 2
Detalhamento fundação
Concreto: C25, em geral
Escala: 1:50



Piso 3
Detalhamento fundação
Concreto: C25, em geral
Escala: 1:50



DETALHAMENTO ESTACA ESCAVADA
MURO ARRIMO – ESCALA 1:25



PREFEITURA MUNICIPAL DE PEDREIRA
CNPJ - 46410775/0001-36

AUTOR DO PROJETO
MATEUS ALMEIDA PEREIRA
CREA: 5071145490

ESPAÇO PARA APROVAÇÃO DO PROJETO

MURO DE ARRIMO - TERRENO RUA JACINTO GALLI

VIGAS MURO DE ARRIMO

PROPRIET. PREFEITURA MUNICIPAL DE PEDREIRA

OBRA MURO DE ARRIMO - TERRENO RUA JACINTO GALLI

LOCAL RUA CARLOS VIARO E TRAVESSA RAFAEL ZANINI

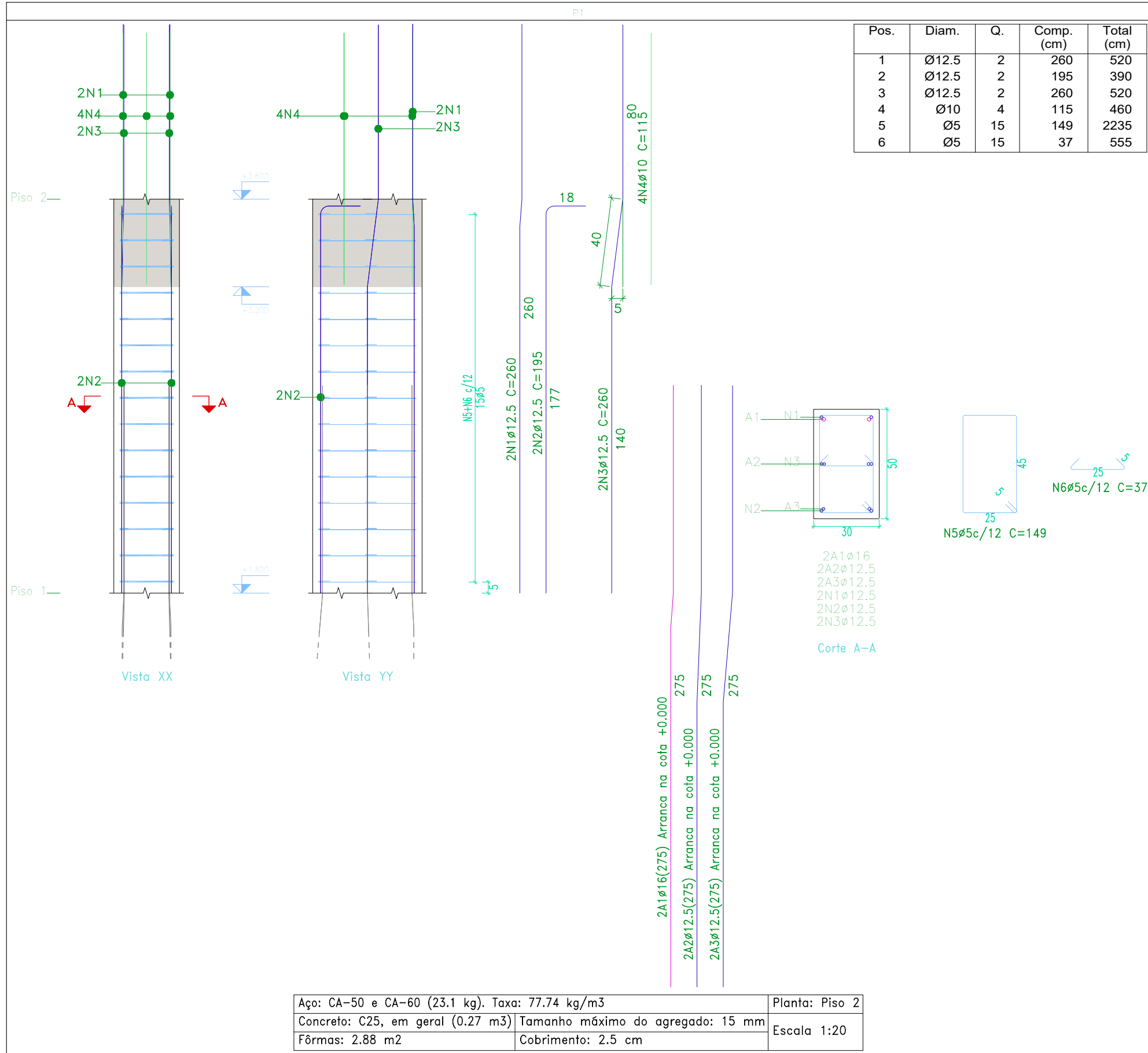
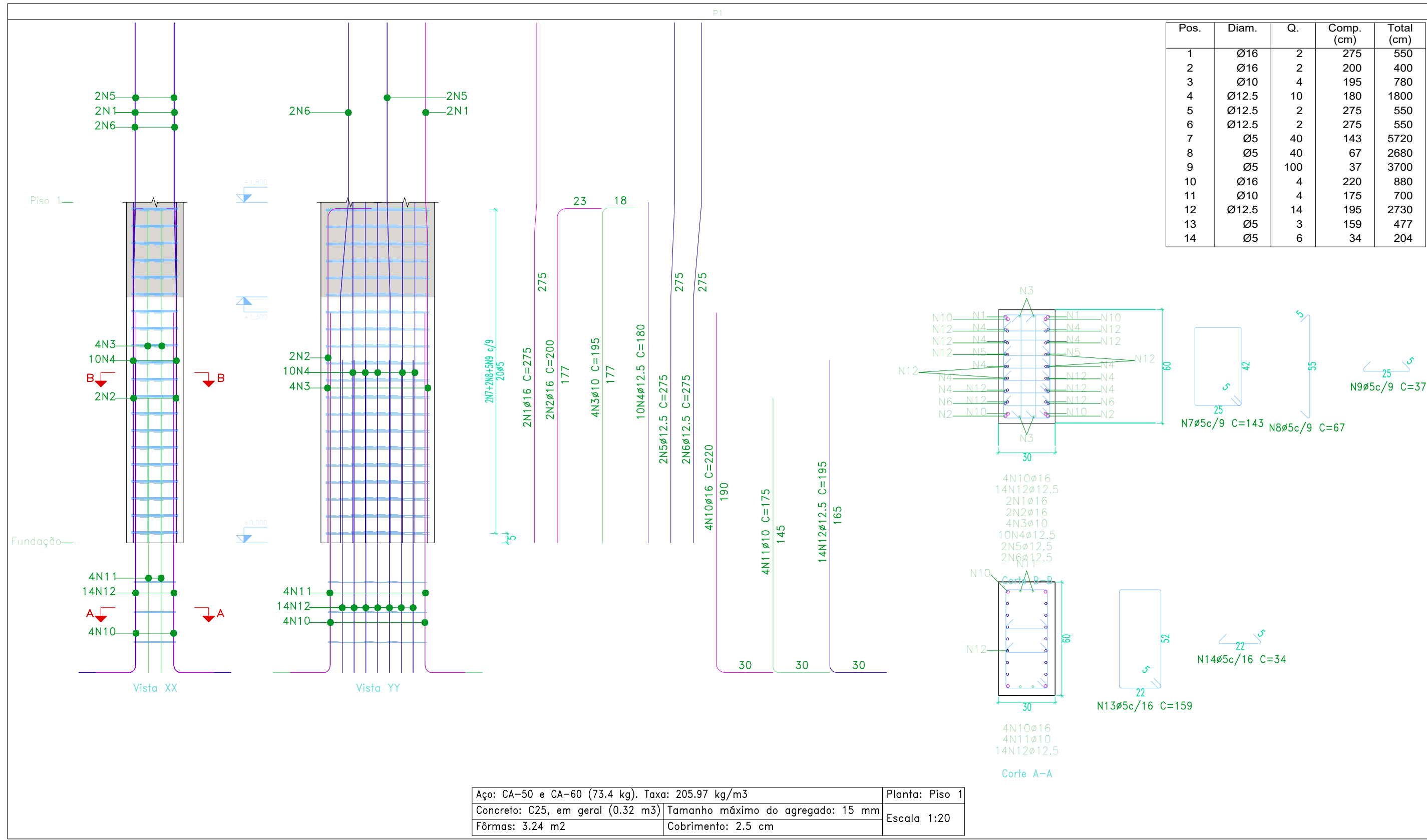
DATA 06/02/2026

ESCALA

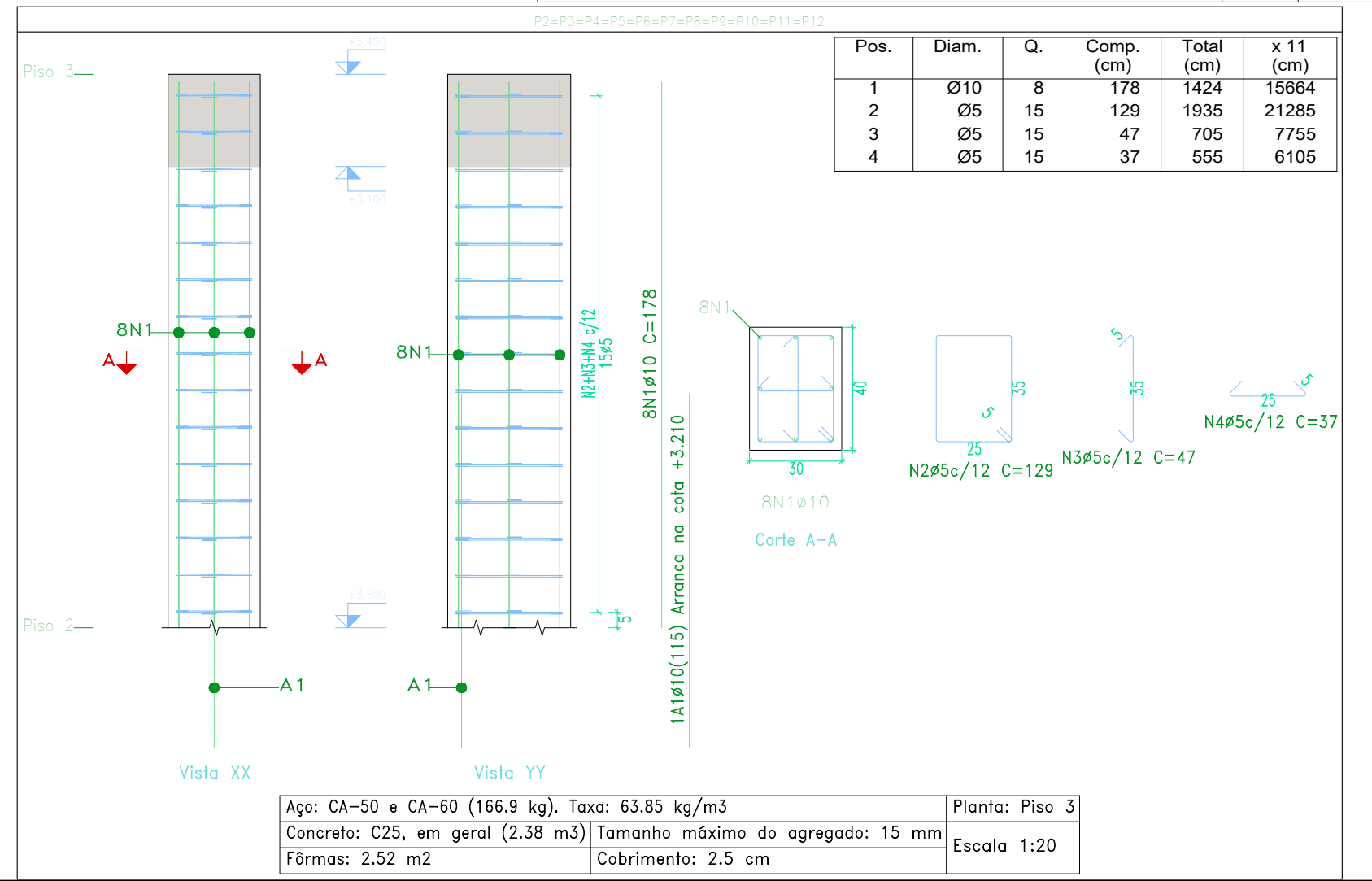
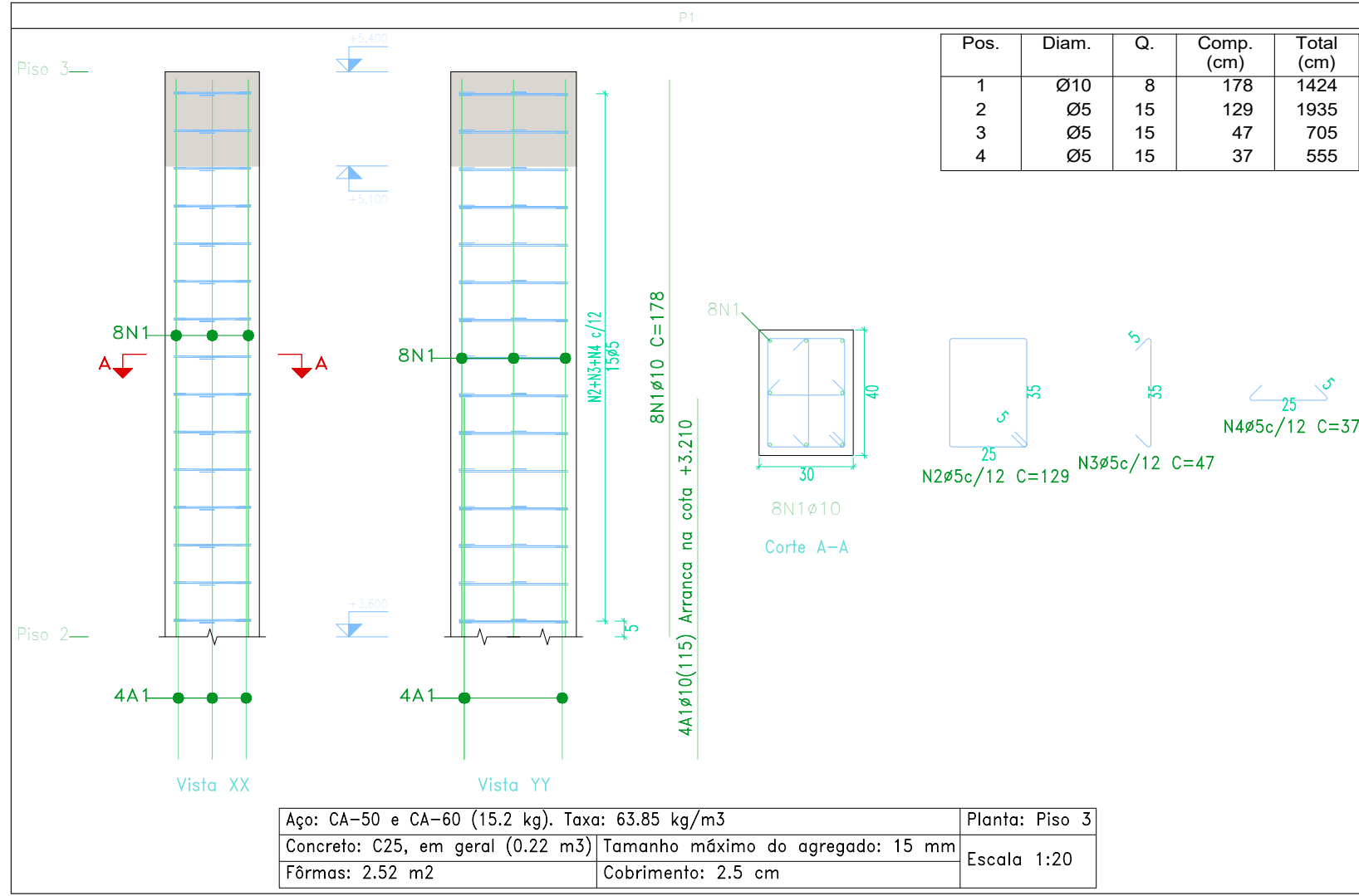
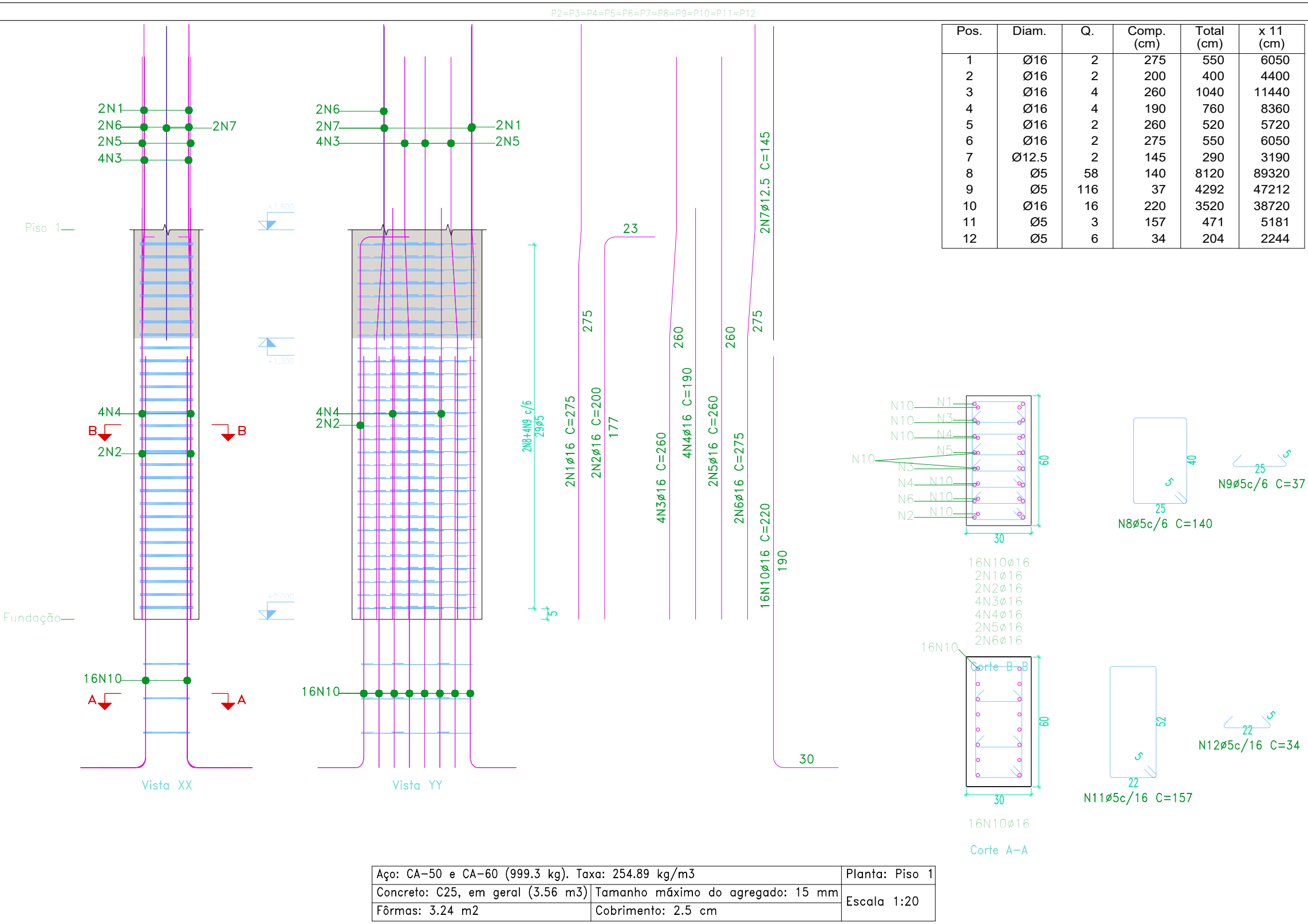
IND.

FOLHA

02



Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P1	1	Ø16	2		275	550	8.7	
	2	Ø16	2		200	400	6.3	
	3	Ø10	4		195	780	4.8	
	4	Ø12.5	10		180	1800	17.3	
	5	Ø12.5	2		275	550	5.3	
	6	Ø12.5	2		275	550	5.3	
	7	Ø5	40		143	5720		9.0
	8	Ø5	40		67	2680		4.2
	9	Ø5	100		37	3700		5.8
	10	Ø16	4		220	880	13.9	
	11	Ø10	4		175	700	4.3	
	12	Ø12.5	14		195	2730	26.3	
	13	Ø5	3		159	477		0.7
	14	Ø5	6		34	204		0.3
Total+10%:							101.4	22.0
							Ø5:	0.0
							Ø10:	10.0
							Ø12.5:	59.6
							Ø16:	31.8
							Total:	101.4
							22.0	
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P1	1	Ø12.5	2		260	520	5.0	
	2	Ø12.5	2		195	390	3.8	
	3	Ø12.5	2		260	520	5.0	
	4	Ø10	4		115	460	2.8	
	5	Ø5	15		149	2235		3.5
	6	Ø5	15		37	555		0.9
Total+10%:							18.3	4.8
P1	1	Ø10	8		178	1424	8.8	
	2	Ø5	15		129	1935		3.0
	3	Ø5	15		47	705		1.1
	4	Ø5	15		37	555		0.9
Total+10%:							9.7	5.5
							Ø5:	0.0
							Ø10:	12.8
							Ø12.5:	15.2
							Total:	28.0
							10.3	
Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P2=P3=P4=P5=P6 P7=P8=P9=P10=P11 P12	1	Ø16	2		275	550	8.7	
	2	Ø16	2		200	400	6.3	
	3	Ø16	4		190	760	16.4	
	4	Ø16	4		190	760	16.4	
	5	Ø16	2		260	520	8.2	
	6	Ø16	2		275	550	8.7	
	7	Ø12.5	2		145	290	2.8	
	8	Ø5	58		140	8120		12.7
	9	Ø5	116		37	4292		6.7
	10	Ø16	16		220	3520	55.6	
	11	Ø5	3		157	471		0.7
	12	Ø5	6		34	204		0.3
Total+10%:							130.6	22.4
							(x11):	1436.6
								246.4
P2=P3=P4=P5=P6=P7=P8=P9=P10=P11 P12	1	Ø10	8		178	1424	8.8	
	2	Ø5	15		129	1935		3.0
	3	Ø5	15		47	705		1.1
	4	Ø5	15		37	555		0.9
Total+10%:							9.7	5.5
							(x11):	106.7
							Ø5:	0.0
							Ø10:	106.7
							Ø12.5:	34.1
							Ø16:	1402.5
							Total:	1543.3
							306.9	



PREFEITURA MUNICIPAL DE PEDREIRA
CNPJ - 45410775/0001-36

AUTOR DO PROJETO
MATEUS ALMEIDA PEREIRA
CREA: 5071145490

ESPAÇO PARA APROVAÇÃO DO PROJETO

MURO DE ARRIMO - TERRENO RUA JACINTO GALLI

PILARES MURO DE ARRIMO

PROPRIET. PREFEITURA MUNICIPAL DE PEDREIRA

OBRA MURO DE ARRIMO - TERRENO RUA JACINTO GALLI

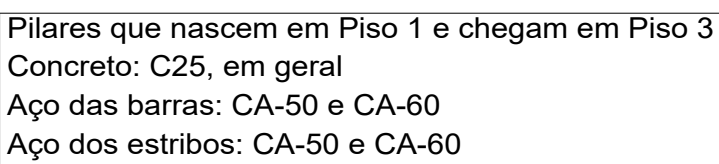
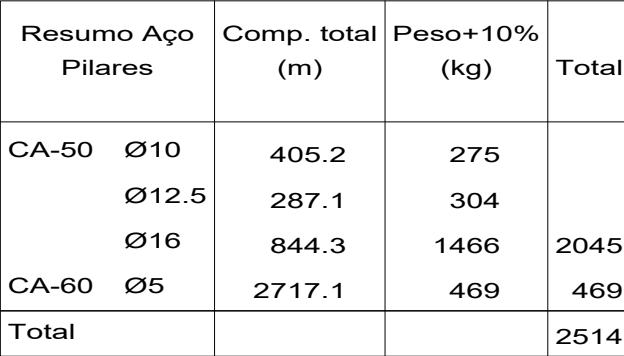
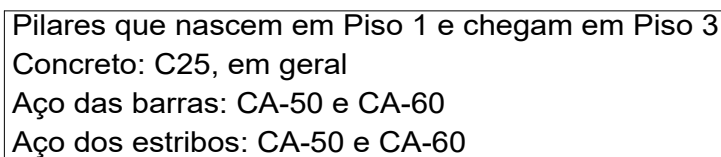
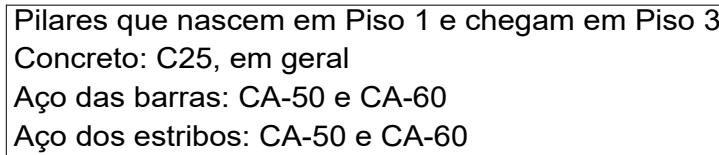
LOCAL RUA CARLOS VIARO E TRAVESSA RAFAEL ZANINI

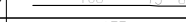
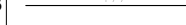
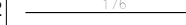
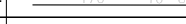
DATA 06/02/2026

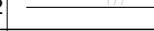
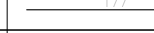
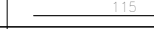
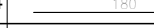
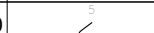
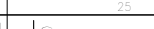
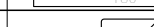
ESCALA IND.

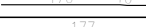
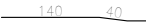
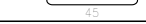
FOLHA

03



Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P2=P3=P4=P5=P6 P7=P8=P9=P10=P11 P12	1	Ø12.5	3		260	780	7.5	
	2	Ø12.5	3		195	585	5.6	
	3	Ø10	2		190	380	2.3	
	4	Ø10	2		260	520	3.2	
	5	Ø10	2		260	520	3.2	
	6	Ø10	1		115	115	0.7	
	7	Ø5	15		149	2235		3.5
	8	Ø5	15		106	1590		2.5
	9	Ø5	15		57	855		1.3
	10	Ø5	15		37	555		0.9
					Total+10%:		24.8	9.0
					(x11):		272.8	99.0
					Ø5:		0.0	99.0
					Ø10:		114.4	0.0
					Ø12.5:		158.4	0.0
					Total:		272.8	99.0

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
P13	1	Ø16	2		260	520	8.2	
	2	Ø16	2		200	400	6.3	
	3	Ø10	1		260	260	1.6	
	4	Ø10	1		195	195	1.2	
	5	Ø10	1		115	115	0.7	
	6	Ø12.5	4		180	720	6.9	
	7	Ø12.5	4		260	1040	10.0	
	8	Ø5	40		148	5920		9.3
	9	Ø5	20		67	1340		2.1
	10	Ø5	40		37	1480		2.3
	11	Ø16	4		235	940	14.8	
	12	Ø10	2		190	380	2.3	
	13	Ø12.5	8		210	1680	16.2	
	14	Ø5	3		159	477		0.7
	15	Ø5	6		34	204		0.3
				Total+10%:		75.0	16.2	
					Ø5:	0.0	16.2	
					Ø10:	6.4	0.0	
					Ø12.5:	36.4	0.0	
					Ø16:	32.2	0.0	
					Total:	75.0	16.2	

Elemento	Pos.	Diam.	Q.	Esquema (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)	
P13	1	Ø10	3		260	780	4.8		
	2	Ø10	3		195	585	3.6		
	3	Ø10	3		115	345	2.1		
	4	Ø10	2		260	520	3.2		
	5	Ø5	15		149	2235		3.5	
	6	Ø5	15		57	855		1.3	
	7	Ø5	15		37	555		0.9	
Total+10%:							15.1	6.3	
P13	1	Ø10	8		178	1424	8.8		
	2	Ø5	15		129	1935		3.0	
	3	Ø5	15		47	705		1.1	
	4	Ø5	15		37	555		0.9	
	Total+10%:							9.7	5.5
							Ø5:	0.0	11.8
							Ø10:	24.8	0.0
							Total:	24.8	11.8