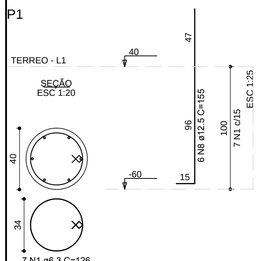
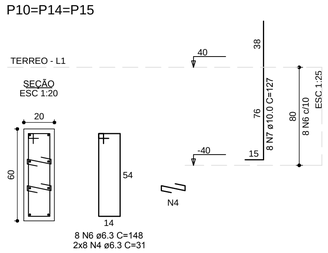
P1



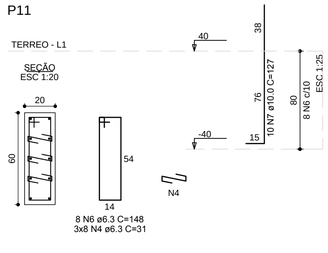
7 N1 ø6.3 C=126

P10=P14=P15



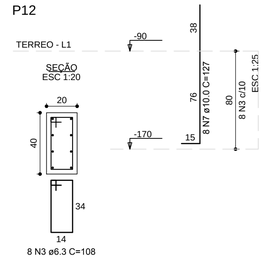
8 N6 ø6.3 C=148
2x8 N4 ø6.3 C=31

P11



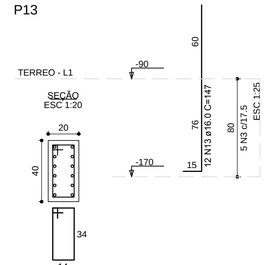
8 N6 ø6.3 C=148
3x8 N4 ø6.3 C=31

P12



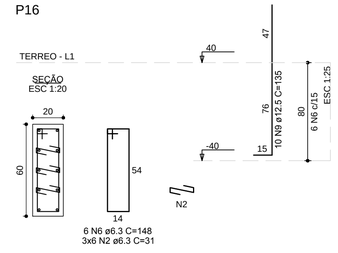
8 N3 ø6.3 C=108

P13



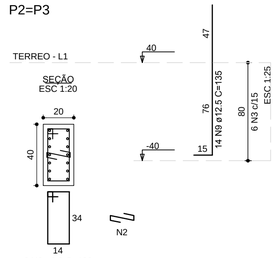
5 N3 ø6.3 C=108

P16



6 N6 ø6.3 C=148
3x6 N2 ø6.3 C=31

P2=P3



6 N3 ø6.3 C=108
6 N2 ø6.3 C=31

RELAÇÃO DO AÇO

P1 2xP2 2xP4
P5 2xP7 P9
3xP10 P11 P12
P13 P16

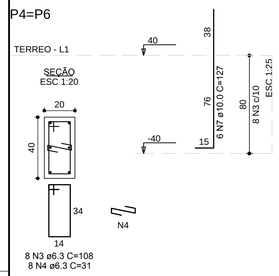
AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	14	126	1764
	2	6.3	54	31	1674
	3	6.3	41	108	4428
	4	6.3	88	31	2728
	5	6.3	40	30	1200
	6	6.3	54	148	7992
	7	10.0	54	127	6858
	8	12.5	6	155	930
	9	12.5	38	135	5130
	10	12.5	6	160	960
	11	12.5	16	140	2240
	12	16.0	32	152	4864
	13	16.0	12	147	1764

RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	197.9	53.3
	10.0	68.6	46.5
	12.5	92.6	98.1
	16.0	66.3	115.1
PESO TOTAL (kg)			
CA50	313		

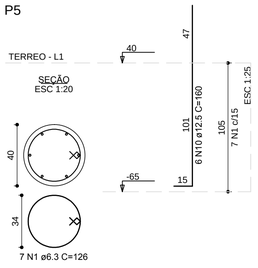
Volume de concreto (C-25) = 1.43 m³
Área de forma = 18.82 m²

P4=P6



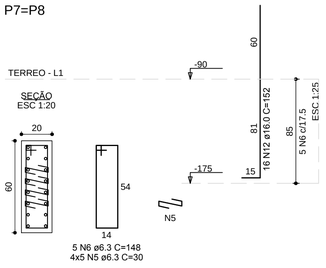
8 N3 ø6.3 C=108
8 N4 ø6.3 C=31

P5



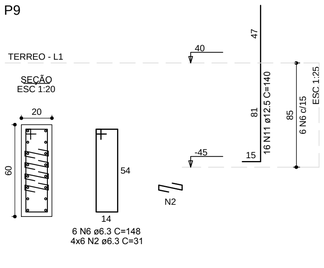
7 N1 ø6.3 C=126

P7=P8



5 N6 ø6.3 C=148
4x5 N5 ø6.3 C=30

P9



6 N6 ø6.3 C=148
4x6 N2 ø6.3 C=31

RELAÇÃO DO AÇO

V501 V502 V503
V504 V505 V506
V507

AÇO	N	DIAM (mm)	QUANT	C.UNIT (cm)	C.TOTAL (cm)
CA50	1	6.3	194	82	15908
	2	10.0	2	705	1410
	3	10.0	2	739	1478
	4	10.0	2	435	870
	5	10.0	2	476	952
	6	10.0	2	1115	2230
	7	10.0	2	1143	2286
	8	10.0	4	285	1140
	9	10.0	4	312	1248
	10	10.0	4	283	1132
	11	10.0	4	310	1240

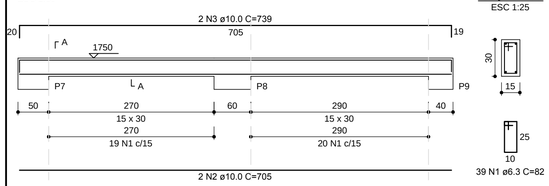
RESUMO DO AÇO

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	6.3	159.1	42.8
	10.0	139.9	94.9
PESO TOTAL (kg)			
CA50	137.7		

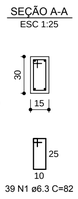
Volume de concreto (C-25) = 1.54 m³
Área de forma = 25.68 m²

V501 (15 x 30)

ESC 1:50



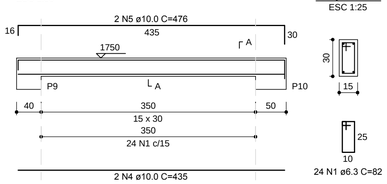
SEÇÃO A-A
ESC 1:25



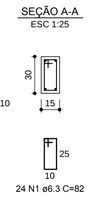
39 N1 ø6.3 C=82

V502 (15 x 30)

ESC 1:50



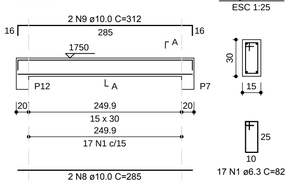
SEÇÃO A-A
ESC 1:25



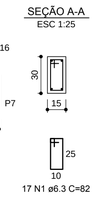
24 N1 ø6.3 C=82

V504 (15 x 30)

ESC 1:50



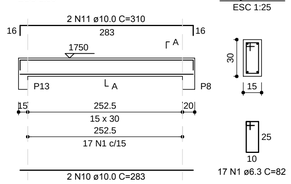
SEÇÃO A-A
ESC 1:25



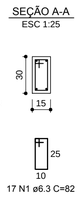
17 N1 ø6.3 C=82

V505 (15 x 30)

ESC 1:50



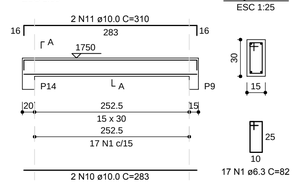
SEÇÃO A-A
ESC 1:25



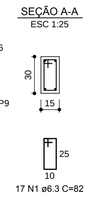
17 N1 ø6.3 C=82

V506 (15 x 30)

ESC 1:50



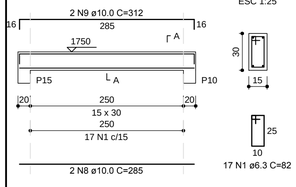
SEÇÃO A-A
ESC 1:25



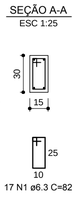
17 N1 ø6.3 C=82

V507 (15 x 30)

ESC 1:50



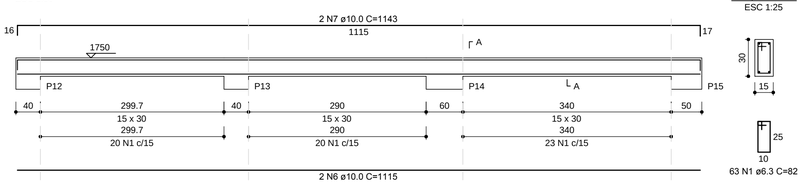
SEÇÃO A-A
ESC 1:25



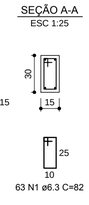
17 N1 ø6.3 C=82

V503 (15 x 30)

ESC 1:50



SEÇÃO A-A
ESC 1:25



63 N1 ø6.3 C=82

ESCRITÓRIO RESPONSÁVEL:

BC Consultores
Engenharia Civil
http://bcconsultores.com.br

REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.
0	EMISSÃO INICIAL	11/01/2019	CANARIM	DANILO	DANILO

PREFEITURA SAQUAREMA
TRABALHO E RESPEITO

APROVADO

SECRETÁRIO DE OBRAS E URBANISMO

SECRETARIA DE OBRAS E URBANISMO

TÍTULO
POUPA TEMPO
PROJETO ESTRUTURAL - ARRANQUES DOS PILARES E VIGAS DA CASA DE MAQUINAS

LOCAL
POUPA TEMPO
AV. SAQUAREMA - SAQUAREMA

ARQ. ELETRÔNICO
DE-503.18-EST-001 A 023=0.DWG

PROJETO
SERGIO BRUNO FARINHA CANARIM 23979/D

Nº
DE-503.18-EST-011=0

ESCALA 1/50
DATA JAN/2019
PRANCHA 11/23

ESCALA DE PLOTAGEM - PAPER SPACE: 1/1