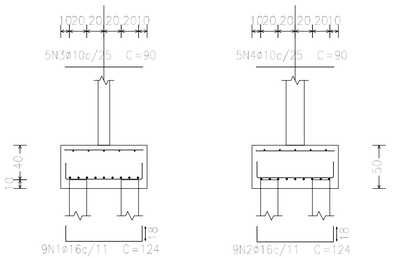
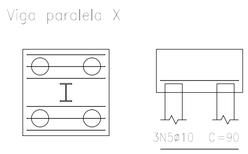
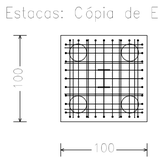
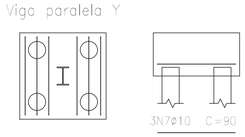
Elemento	Pos.	Diam.	Q.	Dob. (cm)	Reta (cm)	Dob. (cm)	Comp. (cm)	Total (cm)	CA-50 (kg)	CA-60 (kg)
N12=N14=N7=N8	1	ø16	9	18	88	18	124	1116	17.6	
	2	ø16	9	18	88	18	124	1116	17.6	
	3	ø10	5		90		90	450	2.8	
	4	ø10	5		90		90	450	2.8	
	5	ø10	3		90		90	270	1.7	
	6	ø10	3		90		90	270	1.7	
	7	ø10	3		90		90	270	1.7	
	8	ø10	3		90		90	270	1.7	
	9	ø10	4		420		420	1680	10.4	
	10	ø5	1		300		300	300		0.5
								Total+10%:	67.8	0.7
								(x4):	271.0	2.8
VT1, VT2	11	ø10	4		410		410	1640	10.2	
	12	ø5	18		130		130	2340		3.5
	13	ø10	4		210		210	840	5.2	
								Total+10%:	16.9	3.9
								(x2):	33.8	7.8
								ø5:		21.8
								ø10:	134.2	
								ø16:	154.8	
								Total:	289.0	21.8

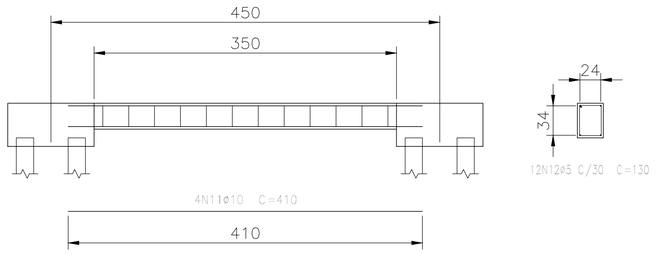




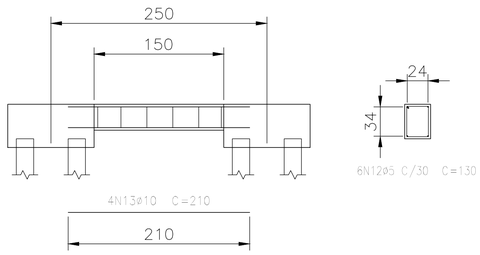




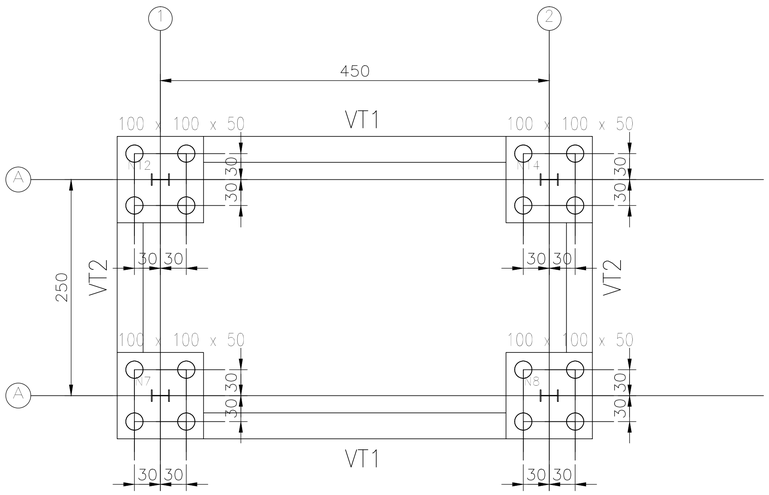
DETALHE DOS BLOCOS
ESC.: 1:50



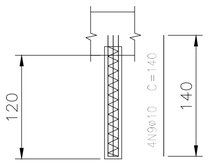
VT1 – 2x
ESC.: 1:50

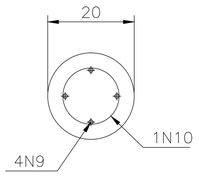


VT2 – 2x
ESC.: 1:50



LOCAÇÃO DAS ESTACAS E BLOCOS
ESC.: 1:50





DETALHE DAS ESTACAS "E1" (16x)
ESC.: 1:50

Capacidade de carga: 3,0 t

NOTAS GERAIS:

1- DIMENSÕES EM CENTÍMETRO, EXCETO ONDE INDICADO.

PEN	COR	ESP
1	7	0,15
2	7	0,15
3	7	0,20
4	7	0,20
5	7	0,30
6	7	0,30
7	7	0,15
8	7	0,15
9	7	0,35

REV.	DESCRIÇÃO	DATA	EXEC.	VERIF.	APROV.
1	REVISÃO DAS FUNDAÇÕES	09/08/16	DAVID	DAVID	DAVID
0	EMISSÃO INICIAL – PARA APROVAÇÃO	29/07/16	DAVID	DAVID	DAVID

DAVID RANIERI OLIVIO
Eng. Civil
CREA 5069714894

CALCULOS ESTRUTURAIS
www.davidranieri.eng.br

Araras-SP
(19) 3351-4529

CLIENTE: SERRALHERIA MORENO

TÍTULO: TORRE METÁLICA
FUNDAÇÃO

ESCALA	PROJ.	EXEC.	VERIF.	APROV.
IND.	FTE	DAVID	DAVID	DAVID

DATA	Nº	REV.
29/07/16	DRO-017A-M004	1

Padrão ABNT(A2-594x420xmm)