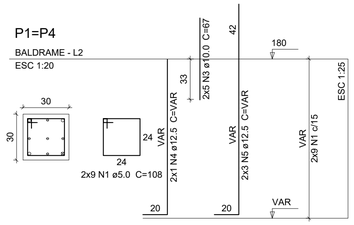
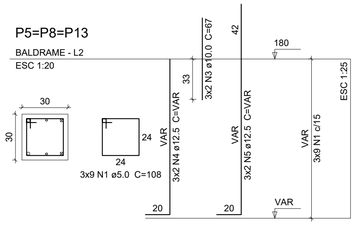
P1=P4

BALDRAME - L2
ESC 1:20



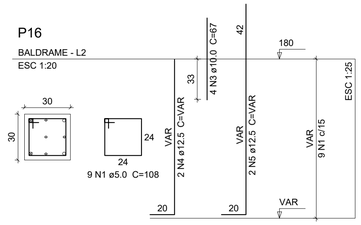
P5=P8=P13

BALDRAME - L2
ESC 1:20



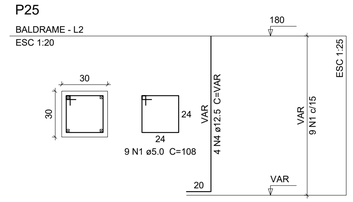
P16

BALDRAME - L2
ESC 1:20



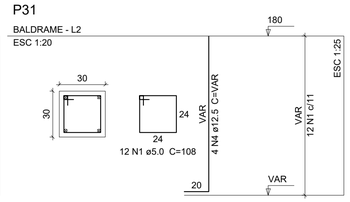
P25

BALDRAME - L2
ESC 1:20



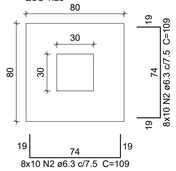
P31

BALDRAME - L2
ESC 1:20

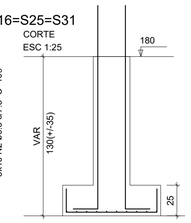


S1=S4=S5=S8=S13=S16=S25=S31

PLANTA
ESC 1:25



CORTE
ESC 1:25



S1

Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	75	108	8100
CA50	2	6.3	160	109	17440
	3	10.0	20	67	1340
	4	12.5	18	VAR	VAR
	5	12.5	14	VAR	VAR

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	6.3	174.4	46.9
	10.0	13.4	9.1
	12.5	52.4	55.5
CA60	5.0	81	13.7

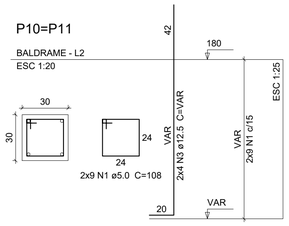
PESO TOTAL	
CA50	111.5
CA60	13.7

Solo com capacidade de suporte > 2.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

Vol. de concreto total (C-30) = 2.22 m³
Área de forma total = 18.88 m²

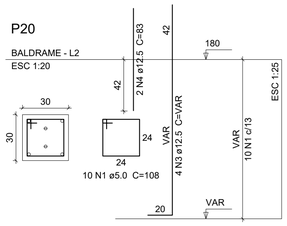
P10=P11

BALDRAME - L2
ESC 1:20



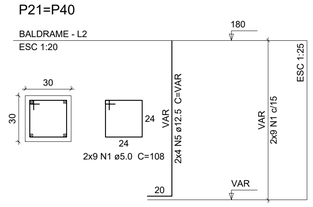
P20

BALDRAME - L2
ESC 1:20



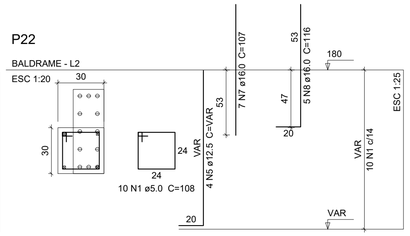
P21=P40

BALDRAME - L2
ESC 1:20



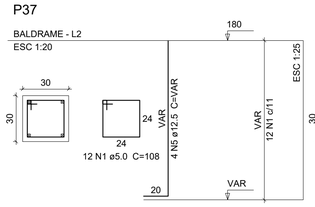
P22

BALDRAME - L2
ESC 1:20



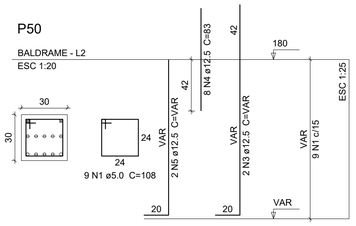
P37

BALDRAME - L2
ESC 1:20



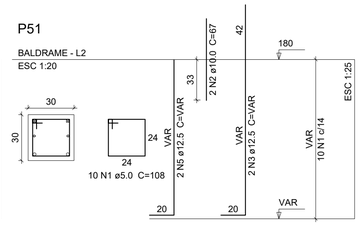
P50

BALDRAME - L2
ESC 1:20



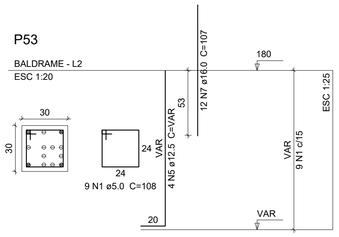
P51

BALDRAME - L2
ESC 1:20



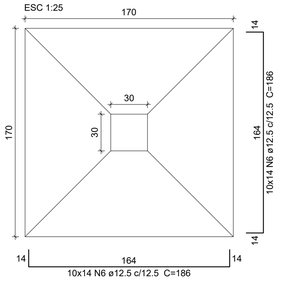
P53

BALDRAME - L2
ESC 1:20

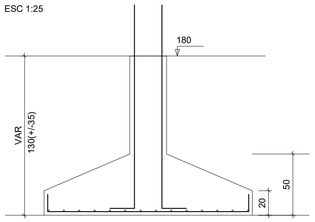


S10=S11=S20=S21=S22=S37=S40=S50=S51=S53

PLANTA
ESC 1:25



CORTE
ESC 1:25



S10

Relação do aço

AÇO	N	DIAM	Q	UNIT (cm)	C.TOTAL (cm)
CA60	1	5.0	96	108	10368
CA50	2	10.0	2	67	134
	3	12.5	16	VAR	VAR
	4	12.5	10	83	830
	5	12.5	24	VAR	VAR
	6	12.5	280	186	52080
	7	16.0	19	107	2033
	8	16.0	5	116	580

Resumo do aço

AÇO	DIAM	C.TOTAL (m)	PESO + 10 % (kg)
CA50	10.0	1.4	0.9
	12.5	593.9	629.3
	16.0	26.2	45.4
CA60	5.0	103.7	17.6

PESO TOTAL	
CA50	675.6
CA60	17.6

Solo com capacidade de suporte > 2.50 kgf/cm²
Solo compactado sobre a sapata
peso específico > 1600.00 kgf/m³

Vol. de concreto total (C-30) = 10.44 m³
Área de forma total = 29.2 m²

Nº	DESCRIÇÃO	DATA	EMITENTE	VERIFICAÇÃO	APROVAÇÃO	CÓDIGO	OBJETO
R E V I S Õ E S						DOCUMENTOS DE REFERÊNCIA	

AUTORIA
EXCELÊNCIA SOLUÇÕES EM ENGENHARIA
Tel. (47) 3018-1774 / (47) 9 9965-1688

PROJETISTA	Eng. Vanderlei Cardoso	DATA	01/09/2021
DESENHISTA	Eng. Vanderlei Cardoso Engenheirovc@gmail.com		
VERIFICAÇÃO	Eng. Vanderlei Cardoso Engenheirovc@gmail.com		
RESP.TÉCNICO	Eng. Vanderlei Cardoso Engenheirovc@gmail.com	CREA: SC 108762-6	

VERIFICAÇÃO

APROVAÇÃO

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CLIENTE: PREFEITURA DE RANCHO QUEIMADO
INOVA BRASIL CONSULTORIA DE PROJETOS

RESPONSÁVEL TÉCNICO: Eng. Vanderlei Cardoso CREA: SC 108762-6

OBRA: MIRANTE RANCHO QUEIMADO

ESTRADA: BR-282 RANCHO QUEIMADO/SC

TRECHO: BR-282

ASSUNTO: PROJETO ARMAÇÃO ESTRUTURA ENTRADA

NOME DO ARQUIVO: PMRQ003.IBR.EST.PE.0008.ARM.R00

FOLHA: 08