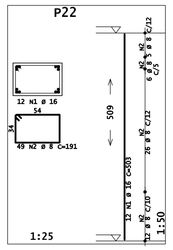
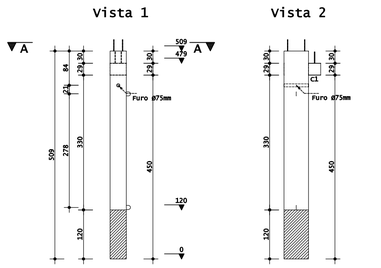
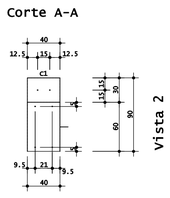
P22





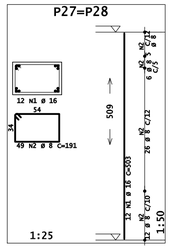


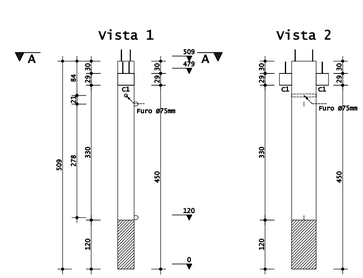
AÇO	POS	BIT	QUANT	COMPRIMENTO	
		mm		UNIT cm	TOTAL cm
P22					
50A	1	16	12	503	6036
50A	2	8	49	191	9359

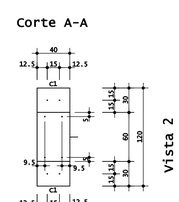
Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	1.65	1.65	4.13	4.13

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
50A	8	94	37
50A	16	60	95
Peso Total+10%		50A =	145 kgf

P27=P28





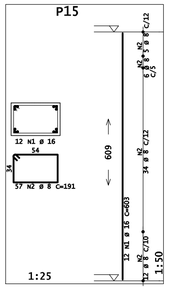


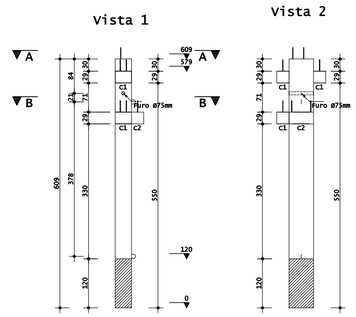
AÇO	POS	BIT	QUANT	COMPRIMENTO	
		mm		UNIT cm	TOTAL cm
P27=P28 (X2)					
50A	1	16	24	503	12072
50A	2	8	98	191	18718

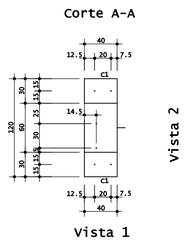
Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
2	1.69	3.37	4.21	8.43

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
50A	8	189	74
50A	16	121	190
Peso Total+10%		50A =	291 kgf

P15





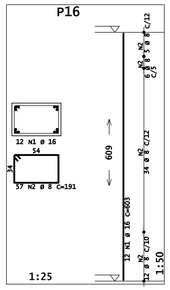


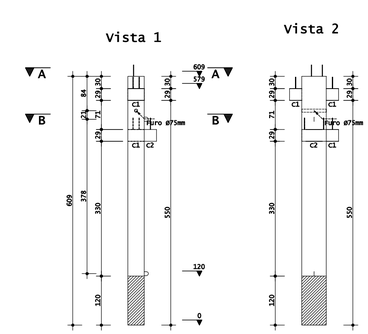
AÇO	POS	BIT	QUANT	COMPRIMENTO	
		mm		UNIT cm	TOTAL cm
P15					
50A	1	16	12	603	7236
50A	2	8	57	191	10887

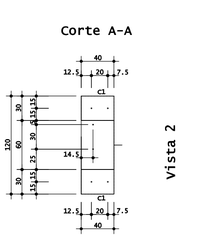
Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	1.67	1.67	4.17	4.17

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
50A	8	109	43
50A	16	72	114
Peso Total+10%		50A =	173 kgf

P16





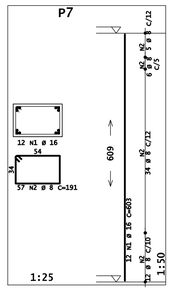


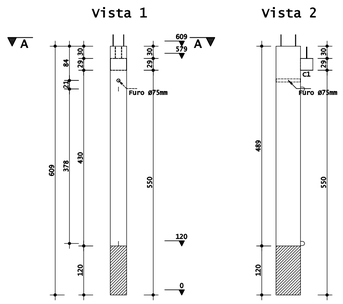
AÇO	POS	BIT	QUANT	COMPRIMENTO	
		mm		UNIT cm	TOTAL cm
P16					
50A	1	16	12	603	7236
50A	2	8	57	191	10887

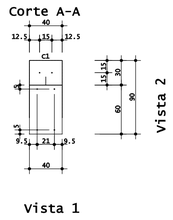
Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	1.67	1.67	4.17	4.17

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
50A	8	109	43
50A	16	72	114
Peso Total+10%		50A =	173 kgf

P7





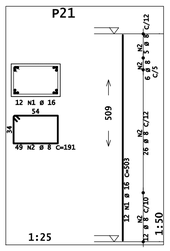


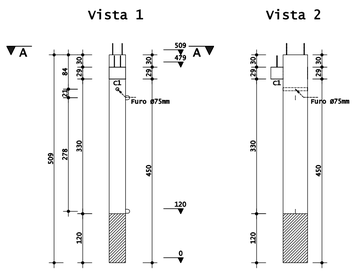
AÇO	POS	BIT	QUANT	COMPRIMENTO	
		mm		UNIT cm	TOTAL cm
P7					
50A	1	16	12	603	7236
50A	2	8	57	191	10887

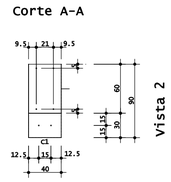
Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	1.62	1.62	4.04	4.04

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
50A	8	109	43
50A	16	72	114
Peso Total+10%		50A =	173 kgf

P21







AÇO	POS	BIT	QUANT	COMPRIMENTO	
		mm		UNIT cm	TOTAL cm
P21					
50A	1	16	12	503	6036
50A	2	8	49	191	9359

Quant	Volume unit m3	Volume total m3	Peso unit tf	Peso total tf
1	1.65	1.65	4.13	4.13

RESUMO DE AÇO			
AÇO	BIT mm	COMPR m	PESO kgf
50A	8	94	37
50A	16	60	95
Peso Total+10%		50A =	145 kgf

NOTAS :

1 - MEDIDAS EM MILÍMETRO, NÍVEIS EM METRO
2 - CARACTERÍSTICAS DO CONCRETO ESTRUTURAL (CAA II):
VIGAS PRÉ FABRICADAS - fck> 40 MPa Ecs >30,1 GPa;
PILARES PRÉ FABRICADOS - fck> 40 MPa Ecs >30,1 GPa;
CONCRETO MOLDADO IN LOCO - fck> 30 MPa Ecs >26,1 GPa;
3- EXECUTAR O GRAUTEAMENTO DA INTERFACE DAS VIGAS, PILARES E LAJES ALVEOLARES COM O MATERIAL:
GRAUTE:
– fgk > 40 MPa.
– ISENTO DE RETRAÇÃO.
– FLUIDEZ ADEQUADA PARA PERFEITO PREENCHIMENTO DO VÃO ENTRE OS ELEMENTOS.
4- ELASTÔMERO SIMPLES e=10mm, DUREZA 70 SHORE-A.
5 - COBRIMENTO = 3 CM.

FONTE / DADOS DE BASE

CDHU

ENG. FERNANDO AREVALILLO LLATA	SUP. PROJETOS	
ARQ°. ANA MARIA ANTUNES COELHO	GERENTE	
ARQ. LUIZ GUSTAVO DELLA NOCE	LÍDER	
ARQ. ALBERTO BUNDUKI	GESTOR	RRT SI10439392100

APOIO CDHU

JHE		
ENG. LUIZ ROBERTO GUIMARÃES	COORDENADOR	ART 28027230210176583
JHE + GEPRO		
ENG. GERRIVAN DE OLIVEIRA	DESENVOLVIMENTO	ART 28027230211455797

LEGENDA / NOTAS

REVISÕES (DISCRIMINAÇÃO)	Nº	DATA	RUBRICA

CDHU Companhia de Desenvolvimento Habitacional e Urbano

Rua Boa Vista,170 . São Paulo . Tel.2505.2000 . CNPJ 47.865.597/0001-09

CONTRATO
SECRETARIA DE DESENVOLVIMENTO ECONÔMICO

PROJETO
SDE_074–ETEC JOSÉ MARTIMIANO DA SILVA
REFORMA E AMPLIAÇÃO

ENDEREÇO / MUNICÍPIO
R. Tamandaré,520–Campos Elíseos–Ribeirão Preto

DISCIPLINA: ESTRUTURA | ÁREA: EST | FOLHA: 316/333

ASSUNTO
ESTRUTURA DE CONCRETO
PROJETO EXECUTIVO
ARMAÇÕES DOS PILARES PRÉ–MOLDADOS 1/4
BLOCO LABORATÓRIO

ESCALA GRÁFICA: 0 1 2 3 (m) | ESCALA NOMINAL: 1:75 | DATA: OUT/2021

ESPAÇO PARA APROVAÇÃO

CÓDIGO CDHU EMPREENDIMENTO

Projeto						Região		Município		Versão	Etapa do Projeto	
0	0	0	6	5	0	6		1	3	0	P	E