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|--------------------------------|-----------------|-----------------------|
| CDHU | | |
| ENG. FERNANDO AREVALILLO LIATA | SUP. PROJETOS | |
| ARQ. ANA MARIA ANTUNES COELHO | GERENTE | |
| ARQ. LUIZ GUSTAVO DELLA NOCE | LIDER | |
| ARQ. ALBERTO BUNDUKI | GESTOR | RRT S10439392100 |
| APOIO CDHU | | |
| JHE | | |
| ENG. LUIZ ROBERTO GUIMARÃES | COORDENADOR | ART 28027230210176583 |
| JHE + GEPRO | | |
| ENG. GERRIVAN DE OLIVEIRA | DESENVOLVIMENTO | ART 28027230211455797 |
| LEGENDA / NOTAS | | |

NOTAS:

- MEDIDAS EM MILÍMETRO, NÍVEIS EM METRO
- 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;
- 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.
- ELASTÔMERO SIMPLES e=10mm, DUREZA 70 SHORE-A.
- COBRIMENTO = 3 CM.

| 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

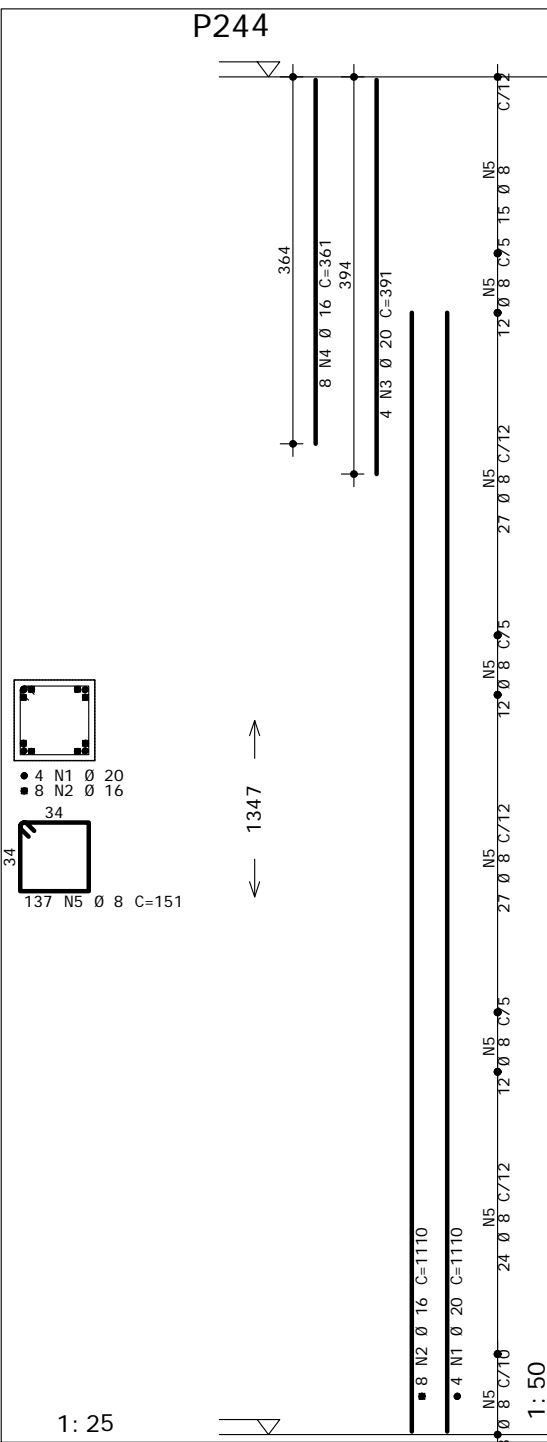
| | | |
|------------|------|---------|
| DISCIPLINA | ÁREA | FOLHA |
| ESTRUTURA | EST | 227/254 |

ASSUNTO

ESTRUTURA DE CONCRETO
PROJETO EXECUTIVO
ARMAÇÕES DOS PILARES PRÉ-MOLDADOS 4/6
BLOCO PEDAGÓGICO

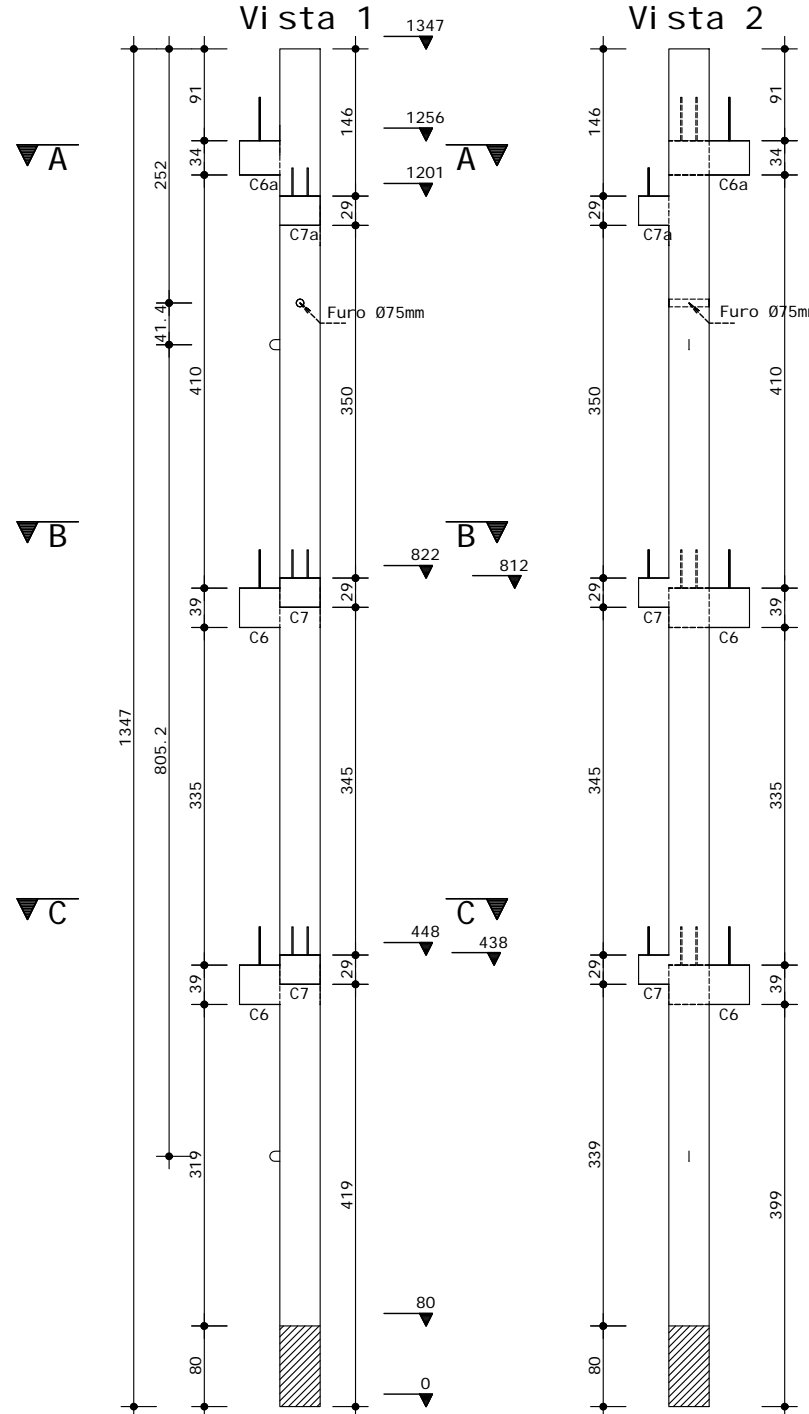
| | | |
|-----------------------|----------------|----------|
| ESCALA GRÁFICA | ESCALA NOMINAL | DATA |
| 0 1 2 3 (m) | 1:75 | OUT/2021 |
| ESPAÇO PARA APROVAÇÃO | | |

| | | | | | | | | | |
|-------------------------------|---|---|---|---|---|--------------------------|---|---|---|
| CÓDIGO CDHU EMPREENHIMENTO | | | | | | | | | |
| Projeto | 0 | 0 | 0 | 6 | 5 | Região | 0 | 6 | |
| | | | | | | Município | 1 | 3 | |
| | | | | | | Versão/ Etapa do Projeto | 0 | P | E |



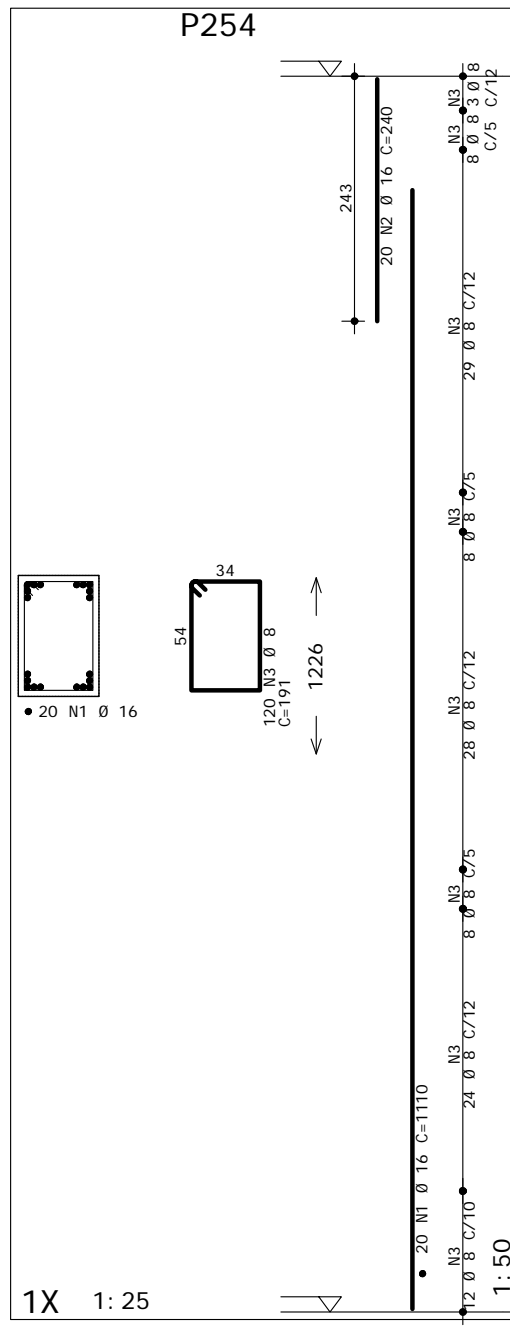
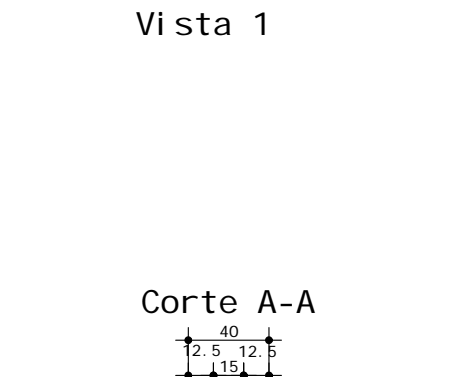
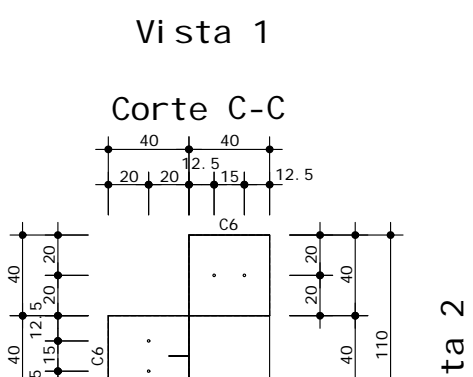
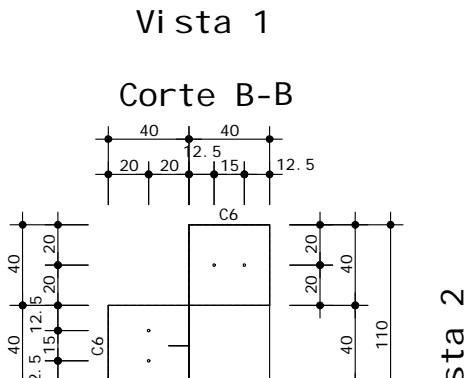
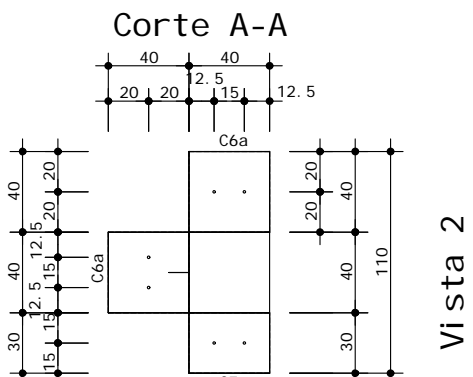
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|-----------------|-----|-----|-------|-------------|-------|---------|
| cm | | mm | | cm | cm | cm |
| P244 | | | | | | |
| 50A | 1 | 20 | 4 | 1110 | 4440 | |
| 50A | 2 | 16 | 4 | 1110 | 4440 | |
| 50A | 3 | 20 | 4 | 391 | 1564 | |
| 50A | 5 | 16 | 8 | 137 | 2088 | |
| Peso Total +10% | | | | | 50A = | 457 kgf |

| RESUMO DE AÇO | | | |
|-----------------|-----|-------|---------|
| AÇO | BIT | COMPR | PESO |
| | mm | m | kgf |
| 50A | 8 | 207 | 82 |
| 50A | 16 | 118 | 186 |
| 50A | 20 | 60 | 148 |
| Peso Total +10% | | 50A = | 457 kgf |



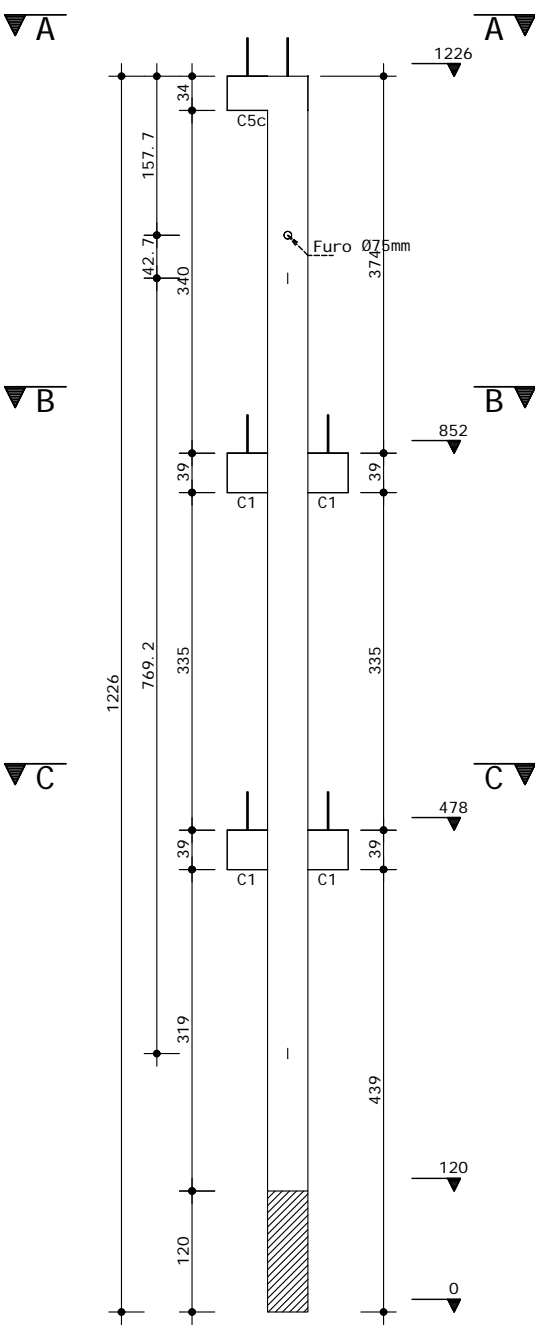
| ACO | RESUMO DE AÇO | PESO | |
|-----------------|---------------|-------|-----|
| mm | BIT | COMPR | kgf |
| 50A | 8 | 207 | 82 |
| 50A | 16 | 118 | 86 |
| 50A | 20 | 60 | 148 |
| Peso Total +10% | | | |
| 50A = | | | |

| Quant | Vol ume | Vol ume | Peso | Peso |
|-------|----------|----------|----------|----------|
| | uni t m3 | total m3 | uni t tf | total tf |
| 1 | 2.47 | 2.47 | 6.16 | 6.16 |

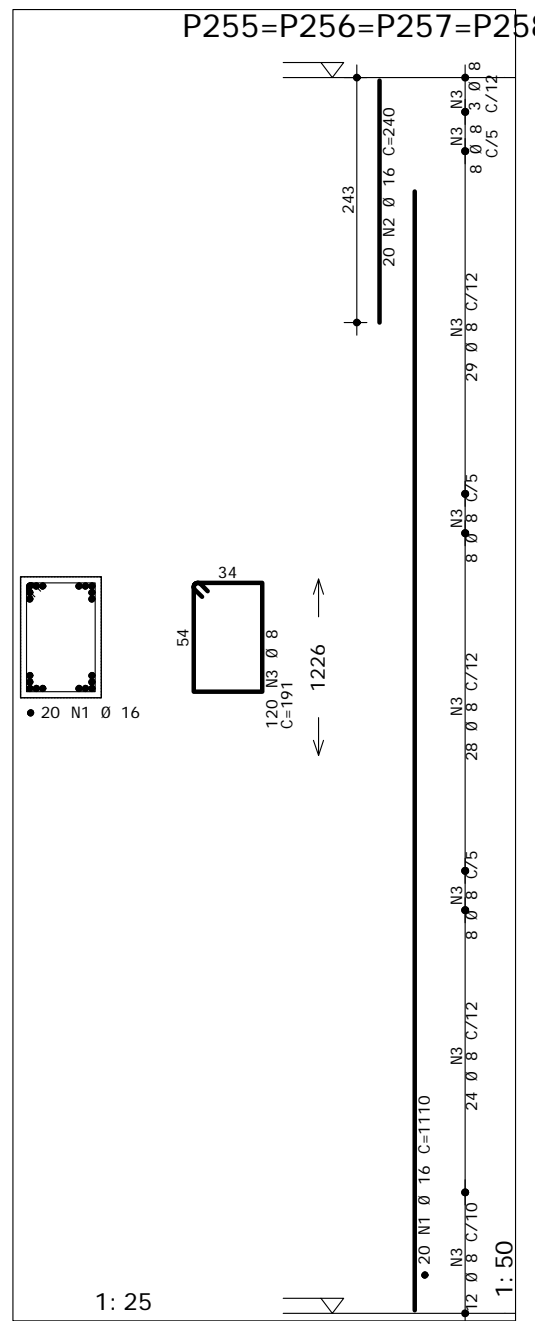
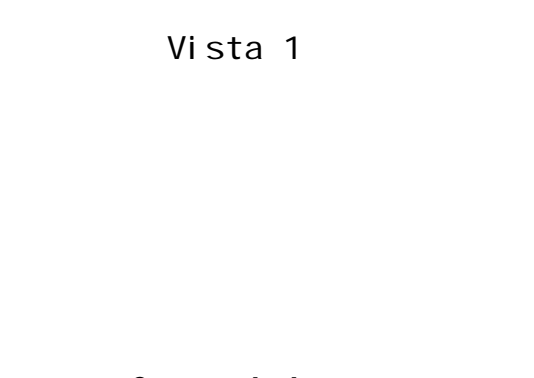
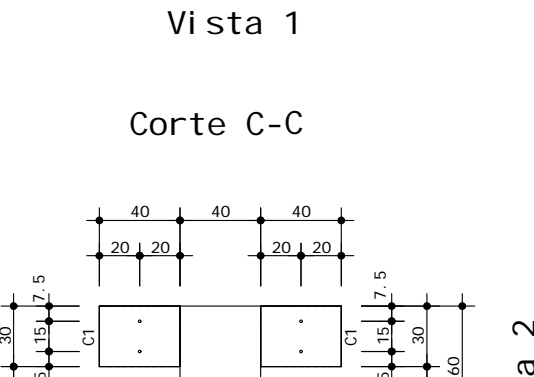
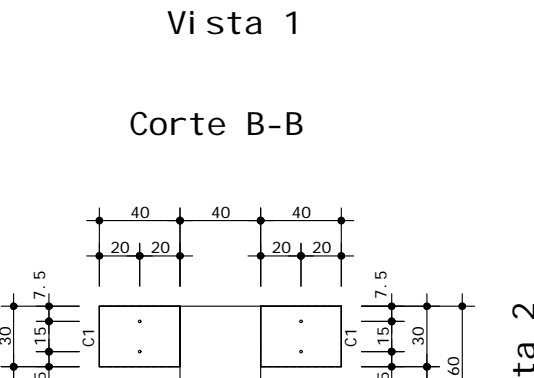
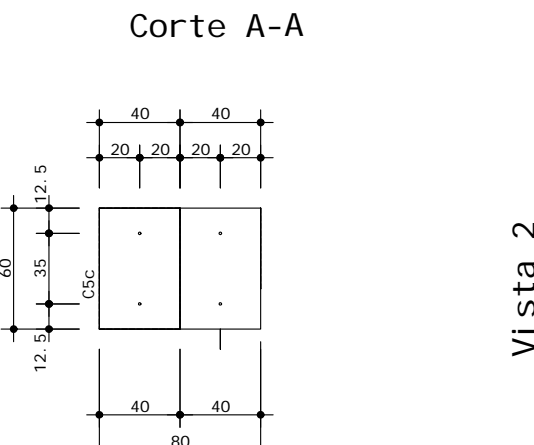
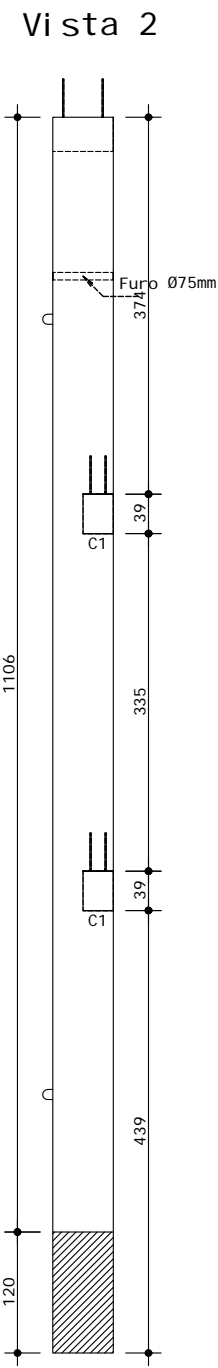


| ACO | POS | BIT | QUANT | COMPRIMENTO | UNI T | TOTAL |
|-----------------|-----|-----|-------|-------------|-------|---------|
| cm | | mm | | cm | cm | cm |
| P254 | | | | | | |
| 50A | 1 | 16 | 20 | 1110 | 22200 | |
| 50A | 2 | 16 | 20 | 240 | 4800 | |
| 50A | 3 | 16 | 120 | 191 | 22920 | |
| Peso Total +10% | | | | | 50A = | 569 kgf |

| RESUMO DE AÇO | | | |
|-----------------|-----|-------|---------|
| AÇO | BIT | COMPR | PESO |
| | mm | m | kgf |
| 50A | 8 | 229 | 91 |
| 50A | 16 | 270 | 426 |
| Peso Total +10% | | 50A = | 569 kgf |

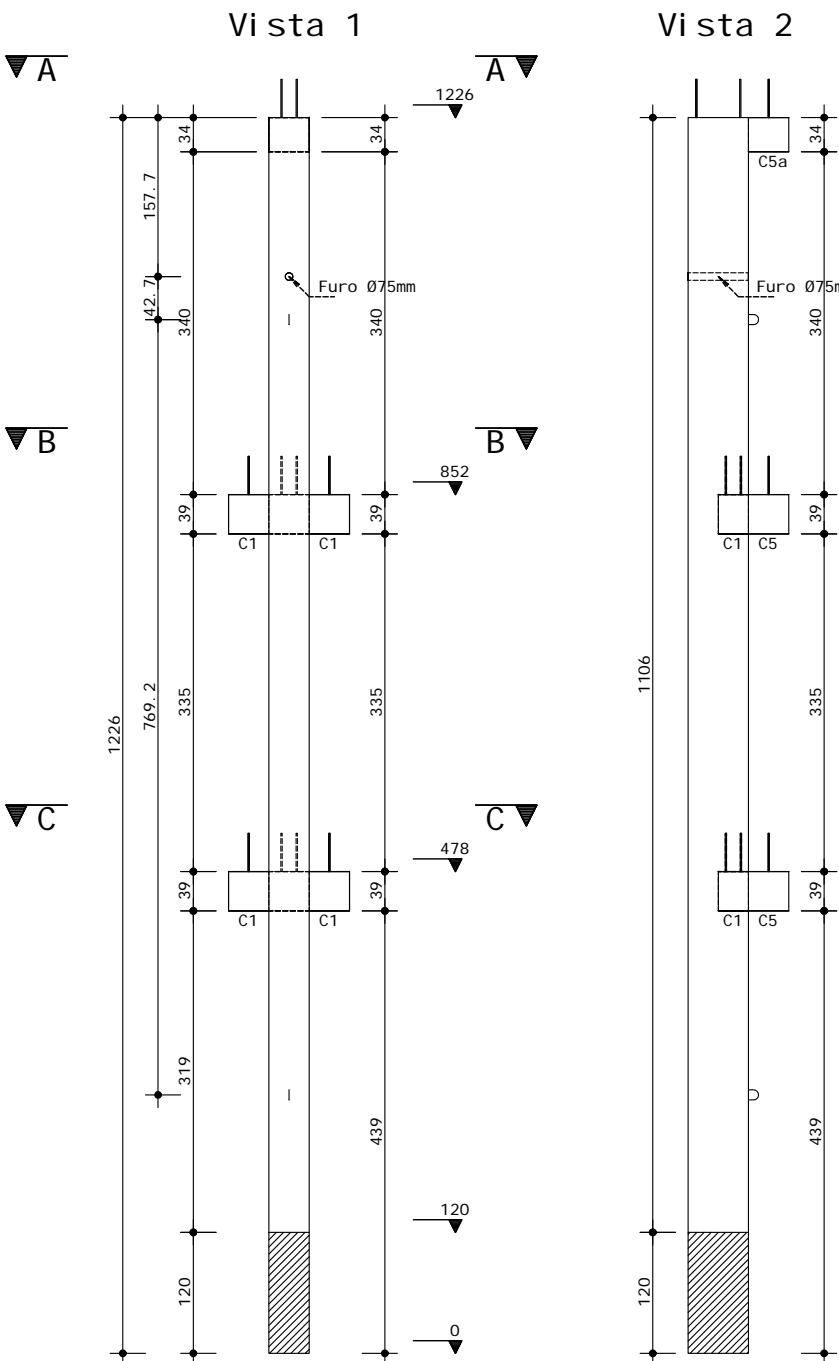


| Quant | Vol ume | Vol ume | Peso | Peso |
|-------|----------|----------|----------|----------|
| | uni t m3 | total m3 | uni t tf | total tf |
| 1 | 3.39 | 3.39 | 8.47 | 8.47 |

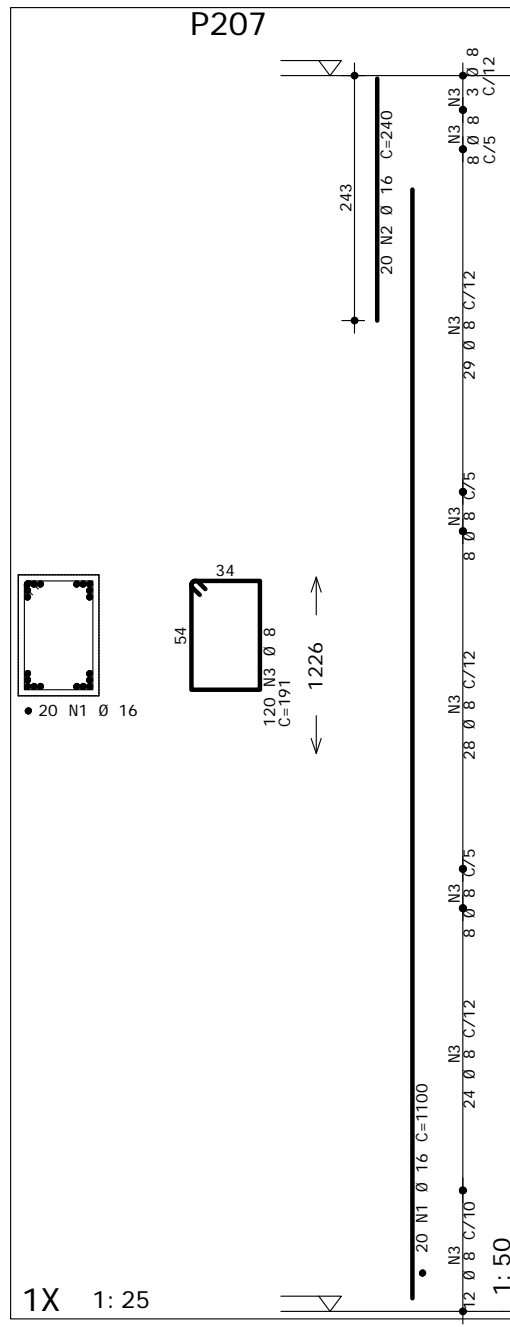
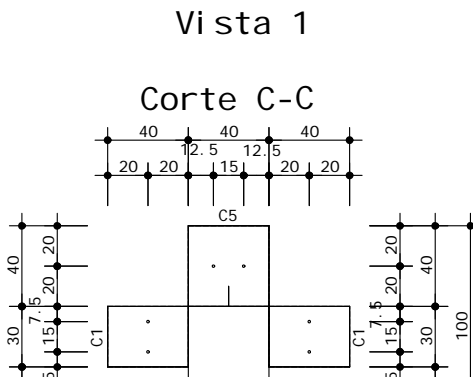
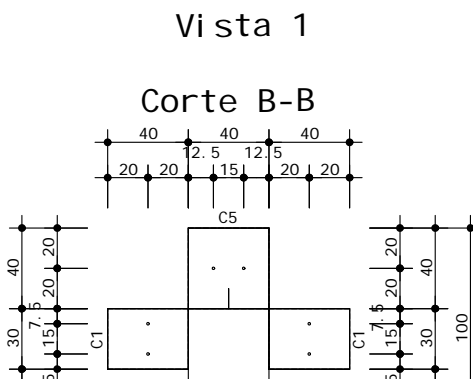
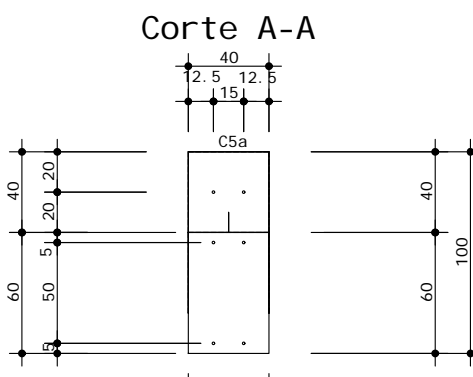


| ACO | POS | BIT | QUANT | COMPRIMENTO | UNI T | TOTAL |
|--------------------------|-----|-----|-------|-------------|-------|----------|
| cm | | mm | | cm | cm | cm |
| P255=P256=P257=P258 (X4) | | | | | | |
| 50A | 1 | 80 | 1110 | 88800 | | |
| 50A | 2 | 16 | 80 | 240 | 19200 | |
| 50A | 3 | 8 | 480 | 191 | 91680 | |
| Peso Total +10% | | | | | 50A = | 2273 kgf |

| RESUMO DE AÇO | | | |
|-----------------|-----|-------|----------|
| AÇO | BIT | COMPR | PESO |
| | mm | m | kgf |
| 50A | 8 | 917 | 362 |
| 50A | 16 | 1080 | 1704 |
| Peso Total +10% | | 50A = | 2273 kgf |

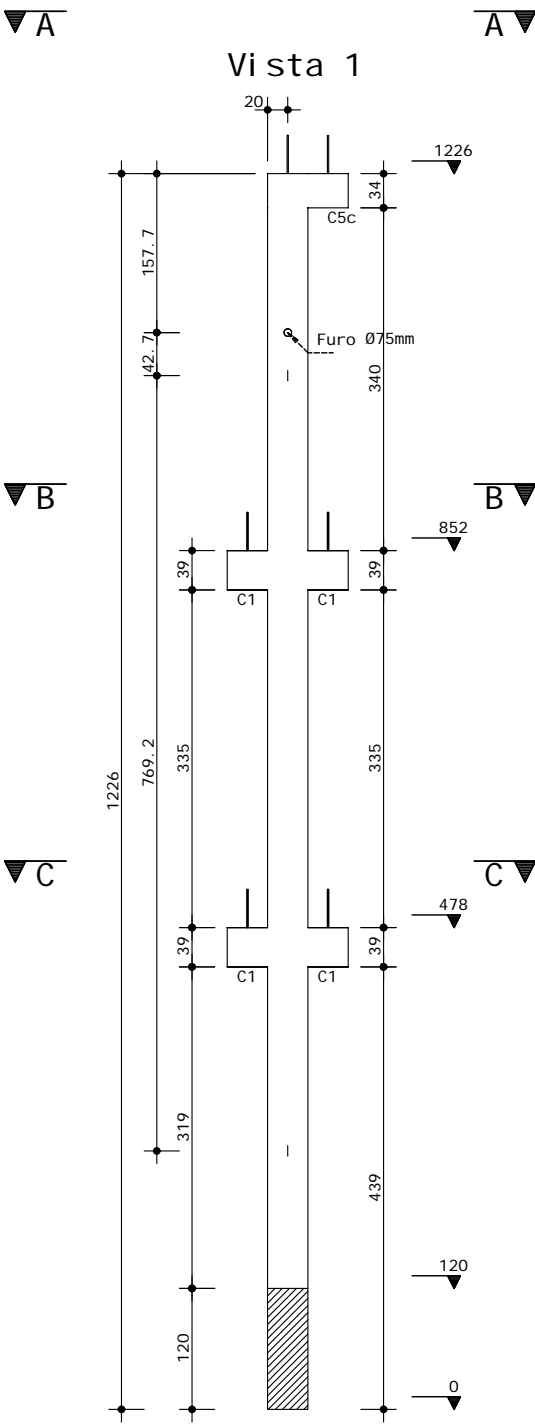


| Quant | Vol ume | Vol ume | Peso | Peso |
|-------|----------|----------|----------|----------|
| | uni t m3 | total m3 | uni t tf | total tf |
| 4 | 3.58 | 14.30 | 8.94 | 35.76 |



| ACO | POS | BIT | QUANT | COMPRIMENTO | UNI T | TOTAL |
|-----------------|-----|-----|-------|-------------|-------|---------|
| cm | | mm | | cm | cm | cm |
| P207 | | | | | | |
| 50A | 1 | 16 | 20 | 1100 | 22000 | |
| 50A | 2 | 16 | 20 | 240 | 4800 | |
| 50A | 3 | 16 | 120 | 191 | 22920 | |
| Peso Total +10% | | | | | 50A = | 564 kgf |

| RESUMO DE AÇO | | | |
|-----------------|-----|-------|---------|
| AÇO | BIT | COMPR | PESO |
| | mm | m | kgf |
| 50A | 8 | 229 | 91 |
| 50A | 16 | 268 | 423 |
| Peso Total +10% | | 50A = | 564 kgf |



| Quant | Vol ume | Vol ume | Peso | Peso |
|-------|----------|----------|----------|----------|
| | uni t m3 | total m3 | uni t tf | total tf |
| 1 | 3.39 | 3.39 | 8.47 | 8.47 |

