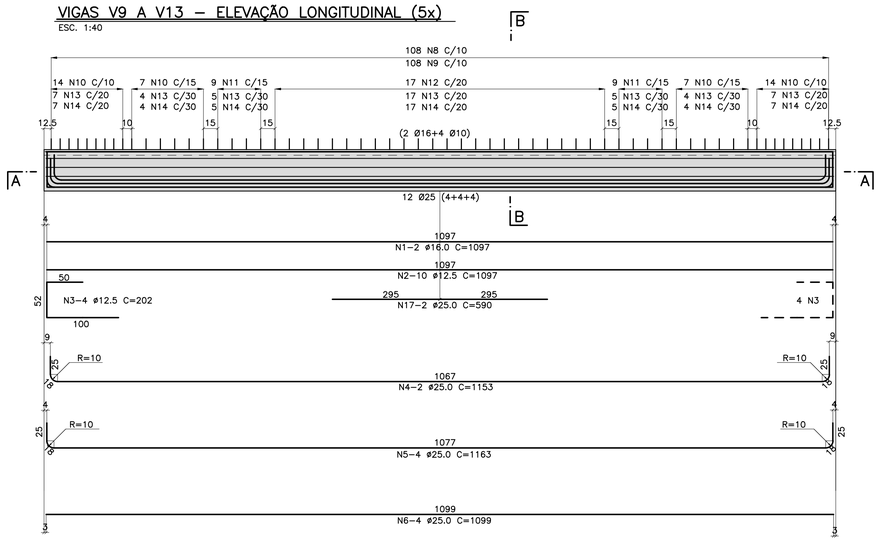
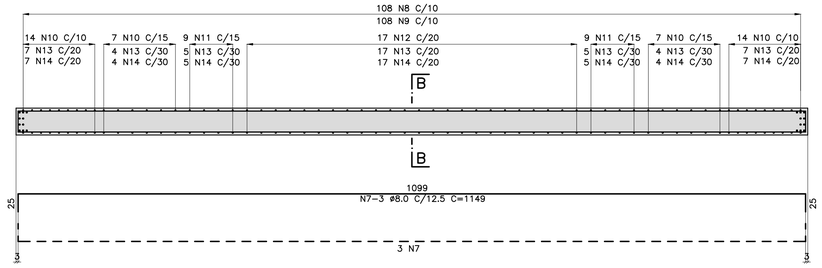
## VIGAS V9 A V13 – ELEVAÇÃO LONGITUDINAL (5x)

ESC. 1:40




## CORTE A–A / PLANTA

ESC. 1:40

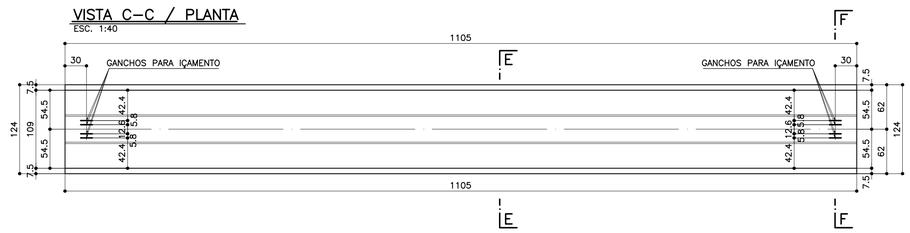



## ELEVAÇÃO LONGITUDINAL DAS VIGAS V9 A V13 (5x)

ESC. 1:40

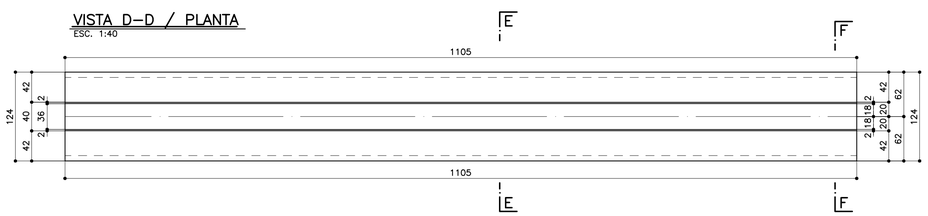
## VISTA C–C / PLANTA

ESC. 1:40



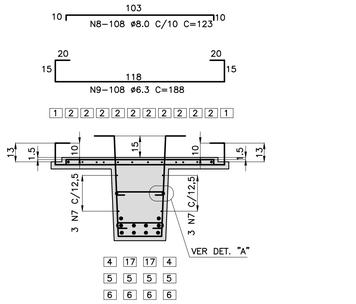

## VISTA D–D / PLANTA

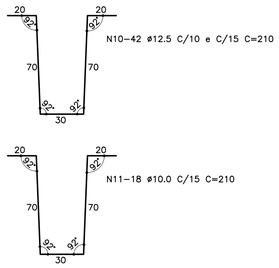
ESC. 1:40

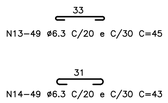



## CORTE B–B

ESC. 1:20

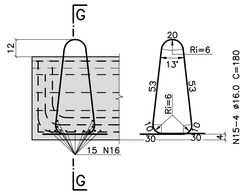


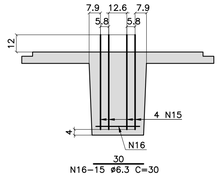

## DETALHE DA ALÇA DE IÇAMENTO (2x)

ESC. 1:20



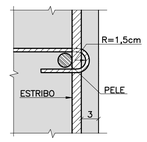

## CORTE G–G

ESC. 1:20



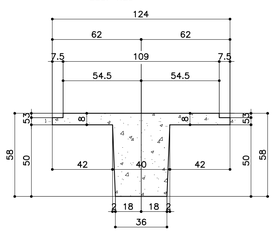

## DETALHE "A"

ESC. 1:5



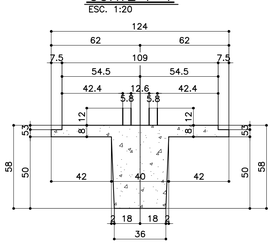

## CORTE E–E

ESC. 1:20



## CORTE F–F

ESC. 1:20



## TABELA DE FERROS

| N | Ø | Q | COMPRIMENTO (m) UNITÁRIO | COMPRIMENTO (m) TOTAL |
|---|---|---|---|---|
| 1 | 16.0 | 2 | 10.97 | 21.94 |
| 2 | 12.5 | 10 | 10.97 | 109.70 |
| 3 | 12.5 | 8 | 2.02 | 16.16 |
| 4 | 25.0 | 2 | 11.53 | 23.06 |
| 5 | 25.0 | 4 | 11.63 | 46.52 |
| 6 | 25.0 | 4 | 10.99 | 43.96 |
| 7 | 8.0 | 6 | 11.49 | 68.94 |
| 8 | 8.0 | 108 | 1.23 | 132.84 |
| 9 | 6.3 | 108 | 1.88 | 203.04 |
| 10 | 12.5 | 42 | 2.10 | 88.20 |
| 11 | 10.0 | 18 | 2.10 | 37.80 |
| 12 | 8.0 | 17 | 2.10 | 35.70 |
| 13 | 6.3 | 49 | 0.45 | 22.05 |
| 14 | 6.3 | 49 | 0.43 | 21.07 |
| 15 | 16.0 | 8 | 1.80 | 14.40 |
| 16 | 6.3 | 30 | 0.30 | 9.00 |
| 17 | 25.0 | 2 | 5.90 | 11.80 |

## RESUMO DO AÇO CA–50

| Ø | COMPRIMENTOS (m) | PESOS (kg) p/m | PESOS (kg) TOTAL |
|---|---|---|---|
| 6.3 | 255.16 | 0.25 | 64 |
| 8.0 | 237.48 | 0.40 | 95 |
| 10.0 | 37.80 | 0.63 | 24 |
| 12.5 | 214.06 | 1.00 | 214 |
| 16.0 | 36.34 | 1.60 | 58 |
| 25.0 | 125.34 | 4.00 | 501 |
| | TOTAL PARA 1 VIGA | | 956 |
| | TOTAL PARA 5 VIGAS | | 4780 |

**MATERIAIS:**

1) CONCRETO fck = 25 MPa:
1.1) RELAÇÃO ÁGUA/CIMENTO ≤ 0,55 l /kg
2) AÇO CA–50

**NOTAS:**

1) COBRIMENTO MÍNIMO: 3cm. (EXCETO ONDE INDICADO)
2) A DESFORMA DA PEÇA PODERÁ SER REALIZADA PARA fck > 15MPa.
3) AS VIGAS SÓ PODERÃO SER MOVIMENTADAS QUANDO fck > 20MPa.

| REV. | DES. | RESP. | APROVAÇÃO |
|---|---|---|---|
| 0 | 0 | | |

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ART nº 92221220100828688

ENESCIL ENGENHARIA DE PROJETOS LTDA

N° Contrato: 038/2008
Verificação/Data: 17/12/2009
Aprovação Data: 17/12/2009

Prefeitura de SÃO CARLOS cidade cuidadosa e humana

PREFEITURA MUNICIPAL DE SÃO CARLOS
ESTADO DE SÃO PAULO

Projeto: PROJETO EXECUTIVO PARA IMPLANTAÇÃO DE OBRAS DE ARTE ESPECIAIS
Local: CÓRREGO MONJOLINHO
Objeto: AMPLIAÇÃO DA PONTE SOBRE O CÓRREGO MONJOLINHO

| Escala: | Etapa: | Identificação: | Folha: | Revisão: |
|---|---|---|---|---|
| INDICADAS | - | FORMA E ARMADURA DAS VIGAS V9 A V13 | ES-07 | Ø |