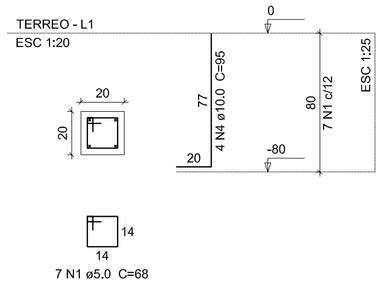
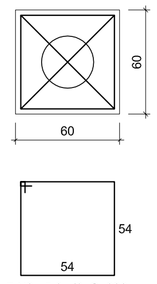
P1=P2=P3=P4=P5=P6=P7=P8=P9=P10=P11=P12
=P13=P14=P15=P16=P17=P18=P19=P20=P21
=P22=P23=P24=P25=P26=P27=P28=P29=P30

B1=B2=B3=B4=B5=B6=B7=B8=B9=B10=B11=B12
=B13=B14=B15=B16=B17=B18=B19=B20=B21
=B22=B23=B24=B25=B26=B27=B28=B29=B30
1xC20

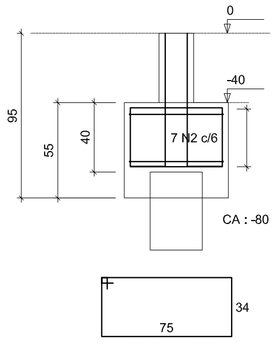
TERREO - L1
ESC 1:20




PLANTA
ESC 1:25




CORTE
ESC 1:25




## Relação do aço

30xB24

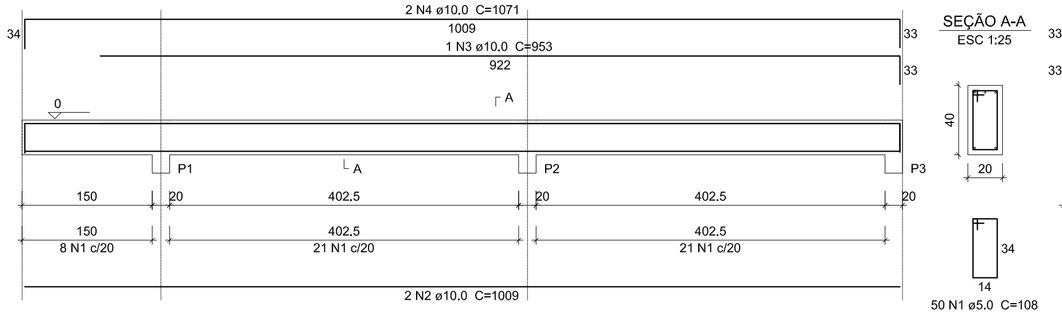
| AÇO | N | DIAM (mm) | QUANT (Barras) | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 210 | 68 | 14280 |
| | 2 | 5.0 | 210 | 228 | 47880 |
| CA50 | 3 | 6.3 | 60 | 230 | 13800 |
| | 4 | 10.0 | 120 | 95 | 11400 |

## Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 6.3 | 138 | 37.1 |
| | 10.0 | 114 | 77.3 |
| CA60 | 5.0 | 621.6 | 105.4 |
| PESO TOTAL (kg) | | | |
| CA50 | 114.5 | | |
| CA60 | 105.4 | | |

Volume de concreto (C-25) = 6.58 m³
Área de forma = 58,8 m²

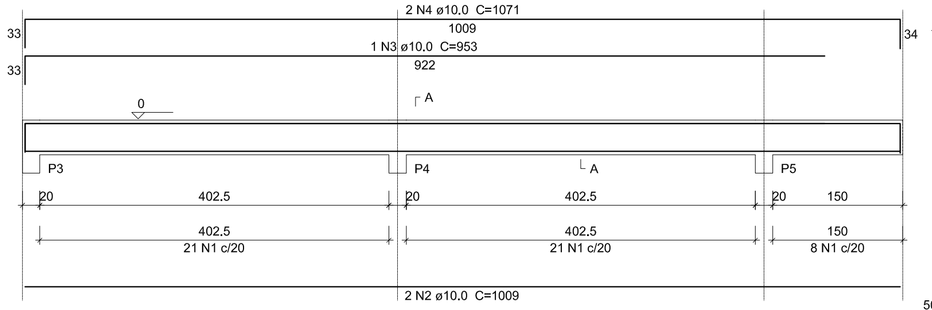
## V1
ESC 1:50



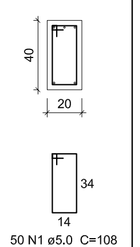

SEÇÃO A-A
ESC 1:25




## V2
ESC 1:50




SEÇÃO A-A
ESC 1:25

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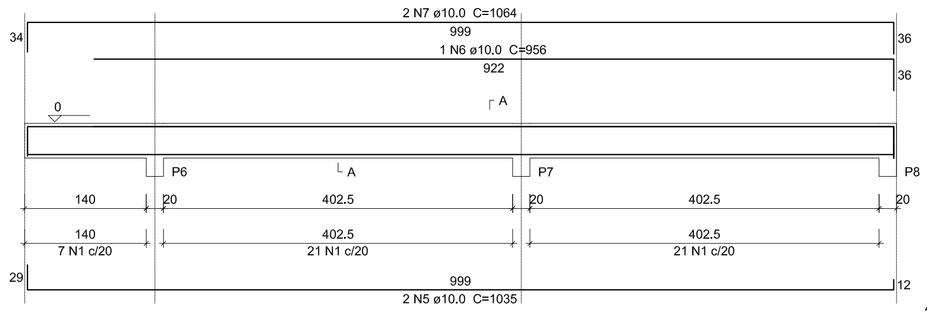
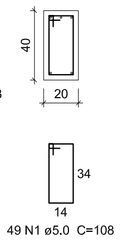
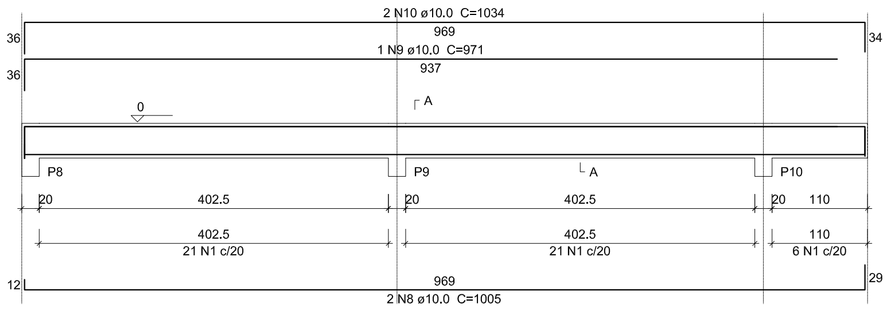
ESC 1:50



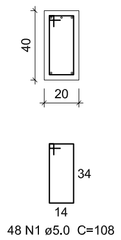

SEÇÃO A-A
ESC 1:25



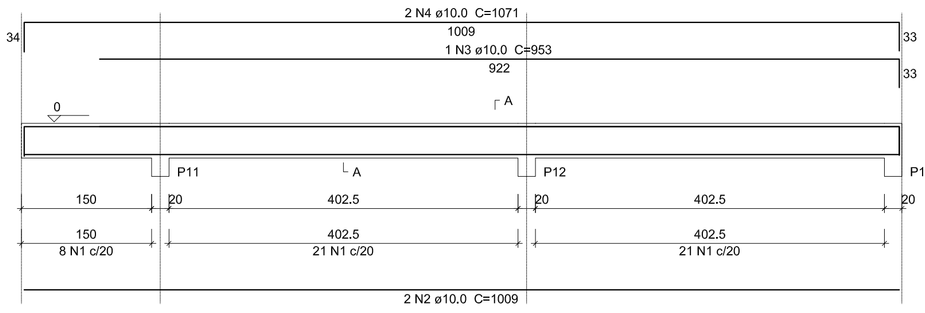

## V4
ESC 1:50



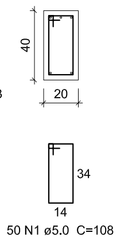

SEÇÃO A-A
ESC 1:25



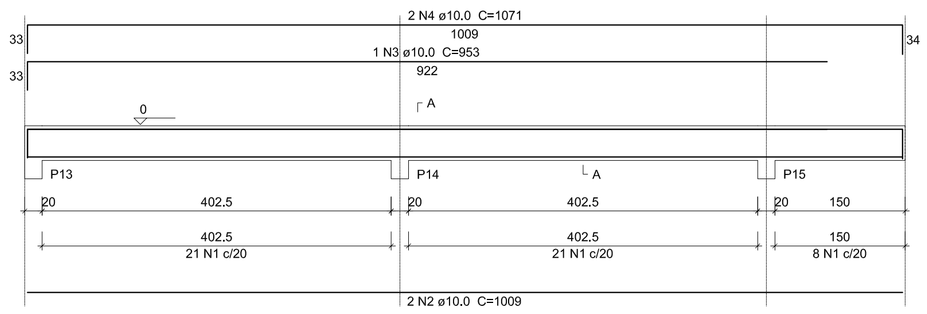

## V5
ESC 1:50



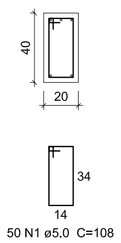

SEÇÃO A-A
ESC 1:25



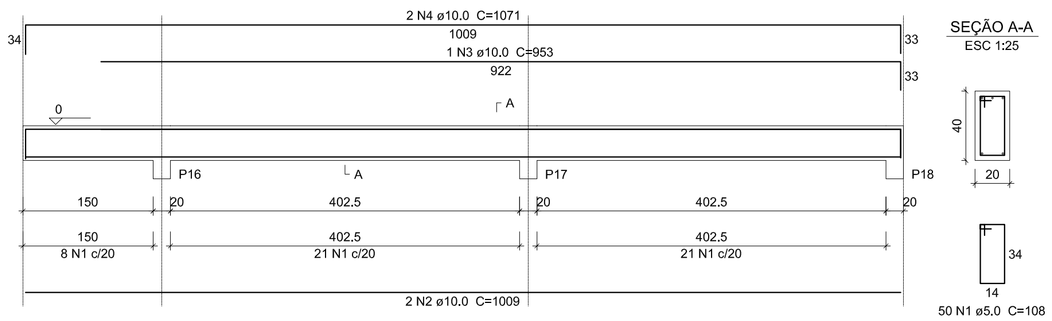

## V6
ESC 1:50




SEÇÃO A-A
ESC 1:25



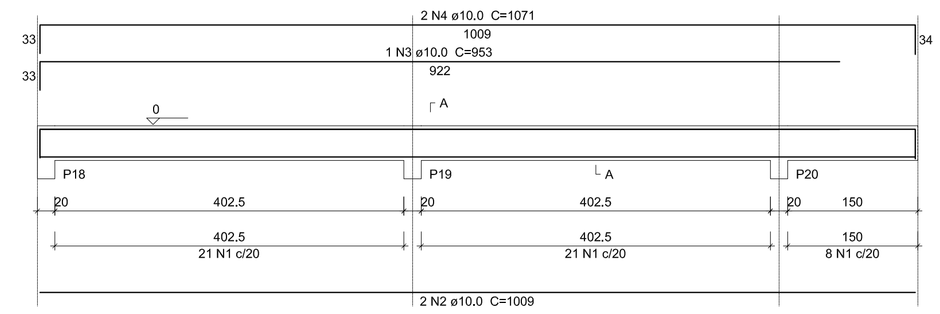

## V7
ESC 1:50



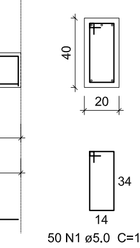

SEÇÃO A-A
ESC 1:25



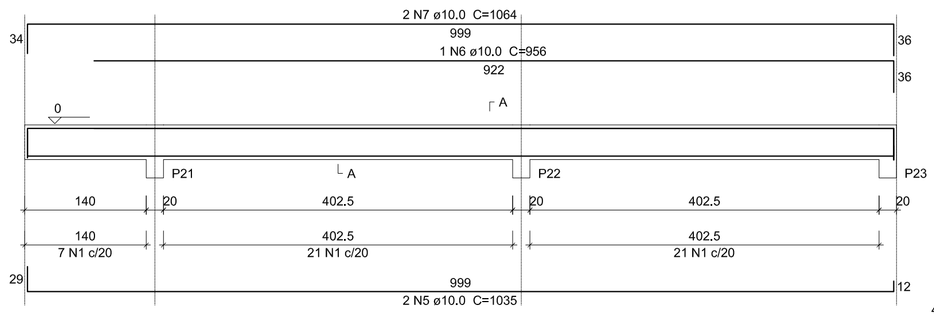

## V8
ESC 1:50



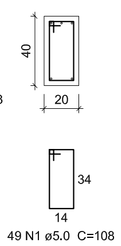

SEÇÃO A-A
ESC 1:25



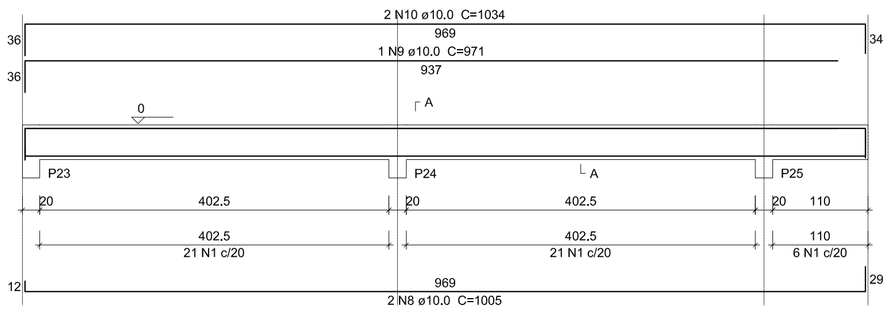

## V9
ESC 1:50



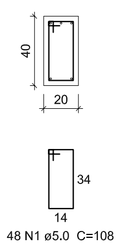

SEÇÃO A-A
ESC 1:25



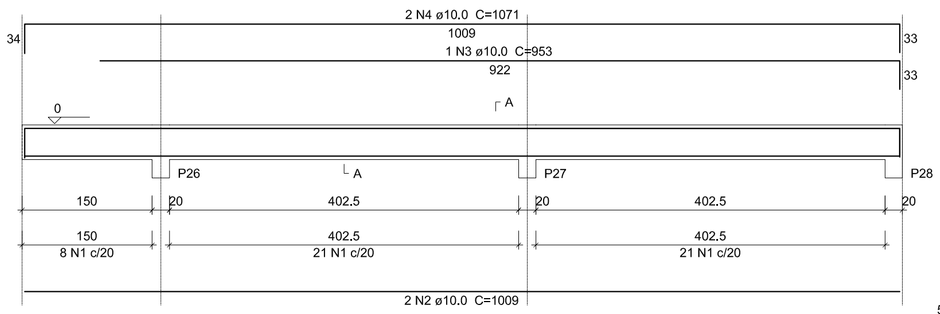

## V10
ESC 1:50



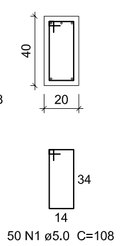

SEÇÃO A-A
ESC 1:25



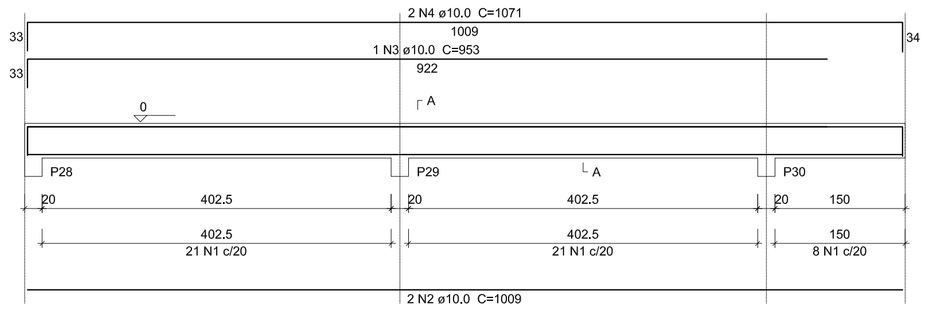

## V11
ESC 1:50



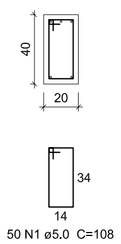

SEÇÃO A-A
ESC 1:25



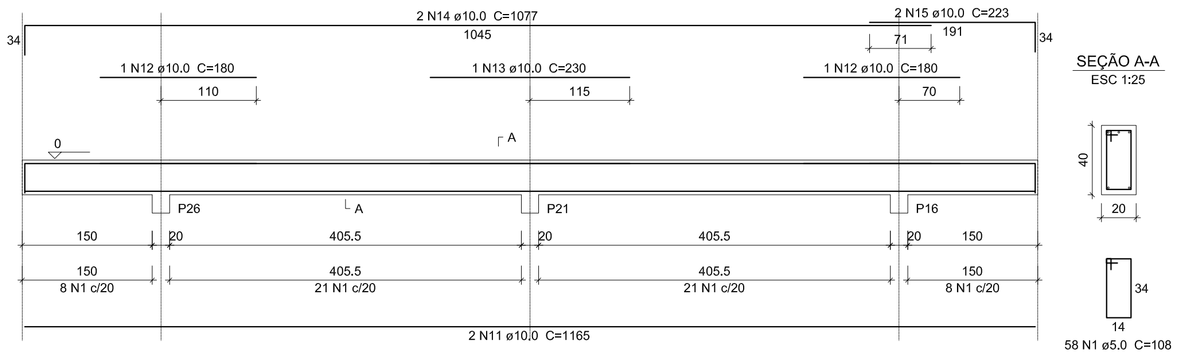

## V12
ESC 1:50




SEÇÃO A-A
ESC 1:25




## V13
ESC 1:50




SEÇÃO A-A
ESC 1:25




| | |
|---|---|
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| AUTORIA DO PROJETO: ENG. MARIO C. ALEXANDRE JUNIOR<br>CREA-SC: 119087-1 | CONTRATANTE: |
| NOME DO PROJETO: FUNDAÇÕES E PISO - LABORATÓRIO | |
| CONTEÚDO: DETALHAMENTO FUNDAÇÕES E VIGAS | |
| OBJETIVO DO PROJETO: CONSTRUÇÃO | TIPO DE PROJETO: ESTRUTURAL |
| AUTORIA DO DESENHO: ENG. MARIO C. ALEXANDRE JR | |
| CIDADE - UF: BLUMENAU - SC | REVISÃO Nº: 01 |
| DATA: 04/2014 | ESCALA: INDICADA |
| FOLHA: 03 | REFERÊNCIA: EST. 03/08 |