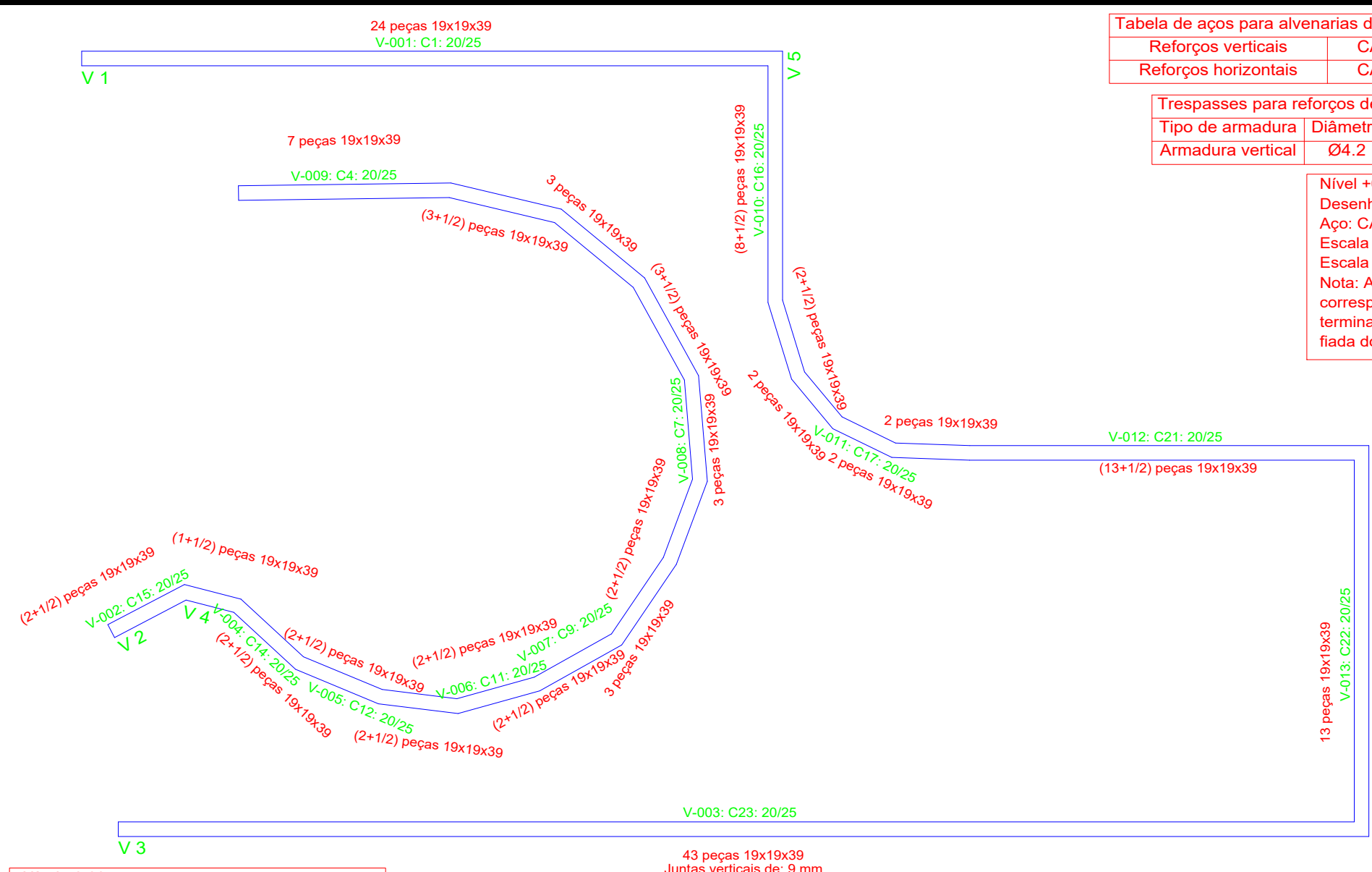


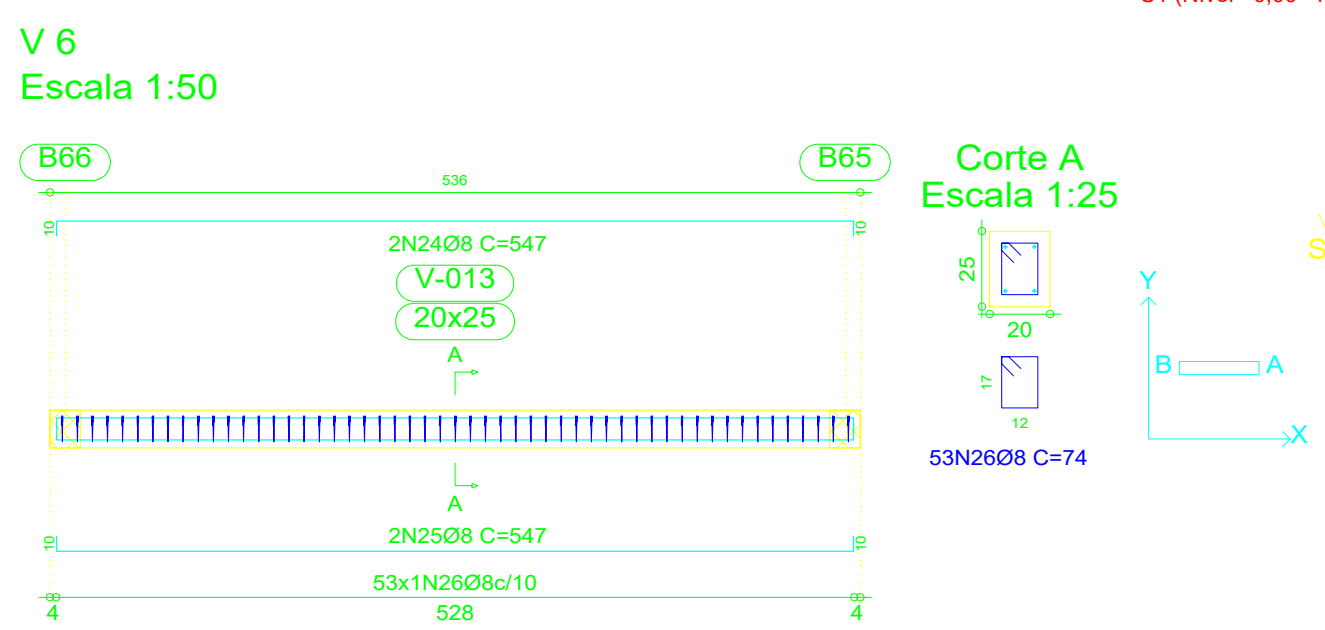
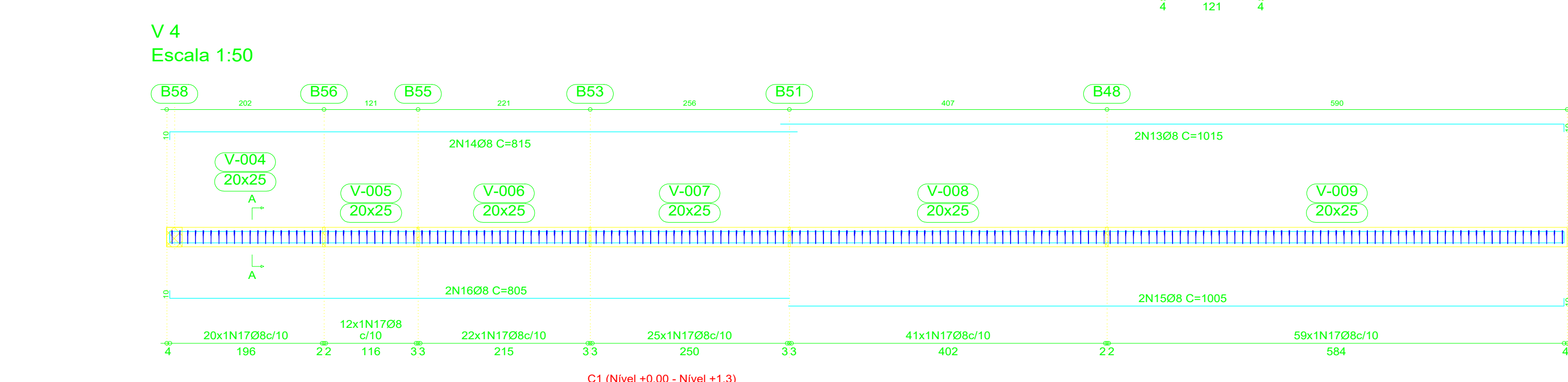
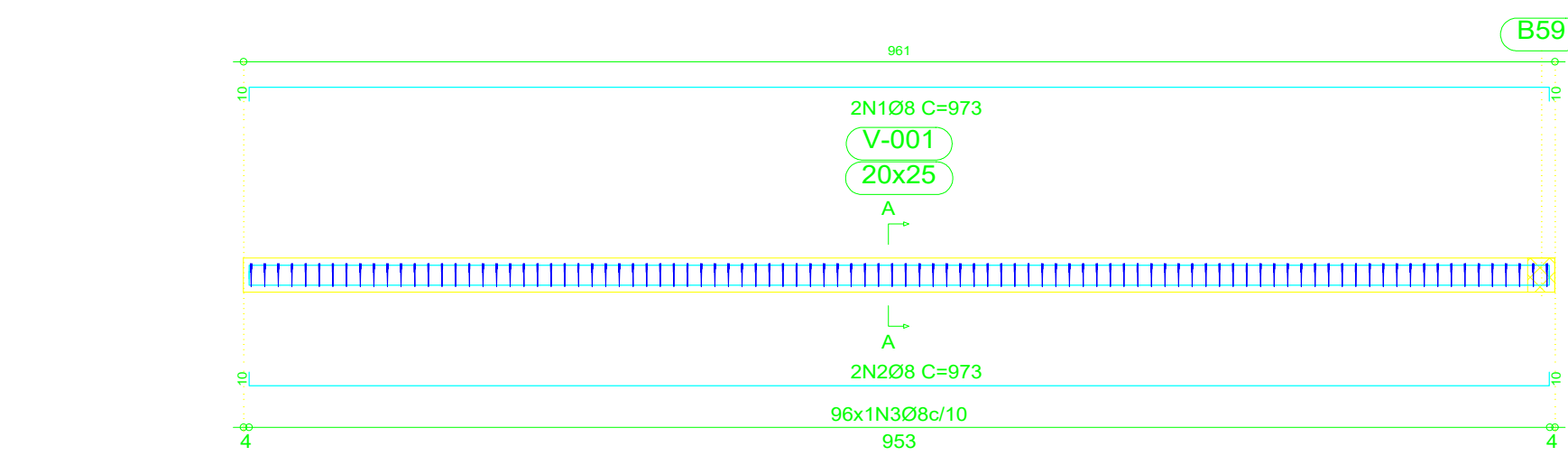


Nível +0,00  
Formas  
Escala: 1:75  
Nota: A disposição de blocos que se desenha corresponde à primeira fiada, exceto se o muro termina no piso, cujo caso corresponde à última fiada do piso inferior.

| Tabela de materiais para alvenarias de blocos de concreto |                  |                                                                                                                                             |          |                                                            |
|-----------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------|------------------------------------------------------------|
| Muros                                                     | Série de blocos  |                                                                                                                                             | Bloco    |                                                            |
|                                                           | Nome             | Descrição                                                                                                                                   | Nome     | Geometria                                                  |
| Em todos os muros                                         | Família 29 - L19 | E: 40800.00 kgf/cm <sup>2</sup><br>n: 0.25<br>g: 1.80 kg/dm <sup>3</sup><br>fvd: 51.00 kgf/cm <sup>2</sup><br>fvd: 0.70 kgf/cm <sup>2</sup> | 19x19x39 | Bloco: 39.0 x 19.0 x 19.0<br>1/2 Bloco: 19.0 x 19.0 x 19.0 |

| Quadro de alvenarias de bloco de concreto armadas (Nível +0,00) |                     |            |
|-----------------------------------------------------------------|---------------------|------------|
| Referência                                                      | Junta vertical (mm) | Número     |
| C1                                                              | 11                  | 24         |
| C10, C11, C12, C13, C15, C17, C7 e C8                           | 10                  | 2 + (1/2)  |
| C14                                                             | 10                  | 1 + (1/2)  |
| C16                                                             | 10                  | 8 + (1/2)  |
| C18                                                             | 11                  | 2          |
| C19 e C20                                                       | 10                  | 2          |
| C2                                                              | 10                  | 7          |
| C21                                                             | 15                  | 13 + (1/2) |
| C22                                                             | 10                  | 13         |
| C23                                                             | 9                   | 43         |
| C3 e C5                                                         | 10                  | 3 + (1/2)  |
| C4, C6 e C8                                                     | 10                  | 3          |

Em todos os muros (Nível +0,00)  
Juntas horizontais: 11 mm  
Nº Fieiras: 5  
Blocos: 19x19x39  
Nota: O número de blocos é orientativo, não se levam em conta as aberturas nem os encontros com outros muros.



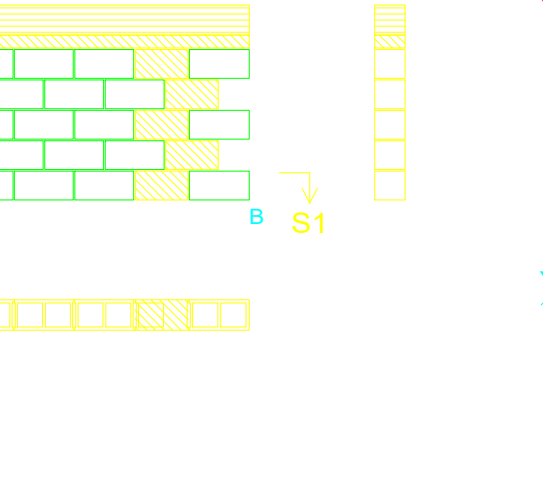
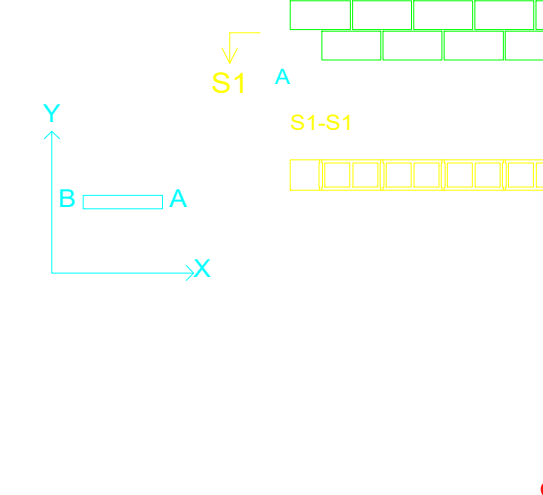
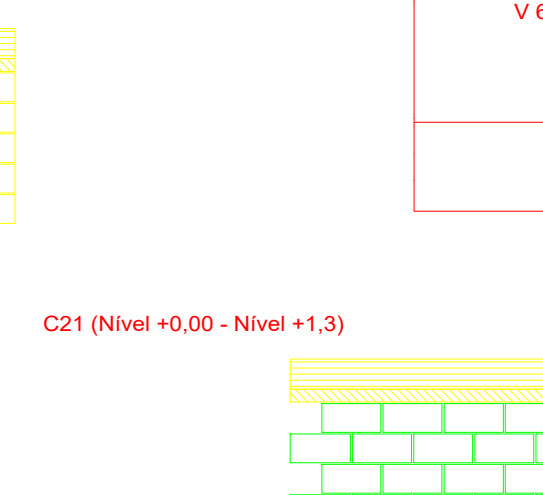
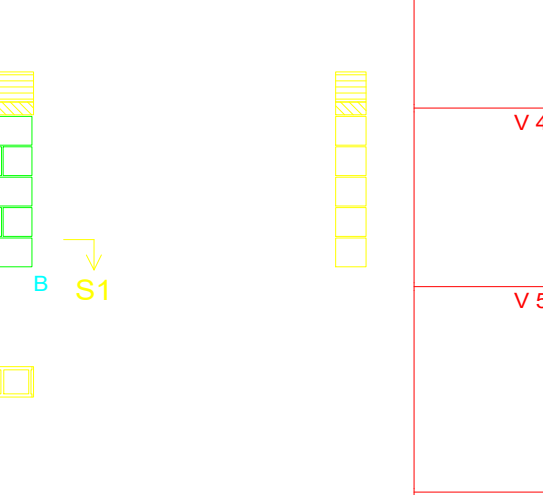
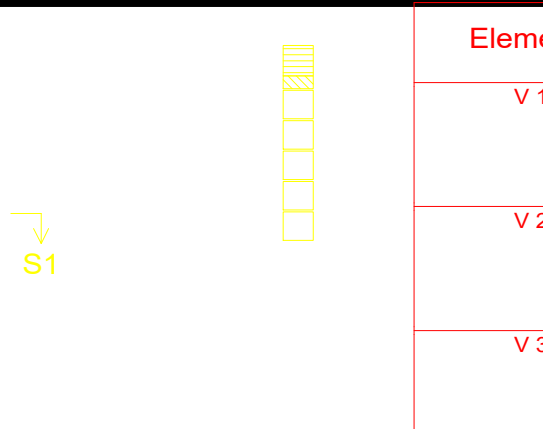
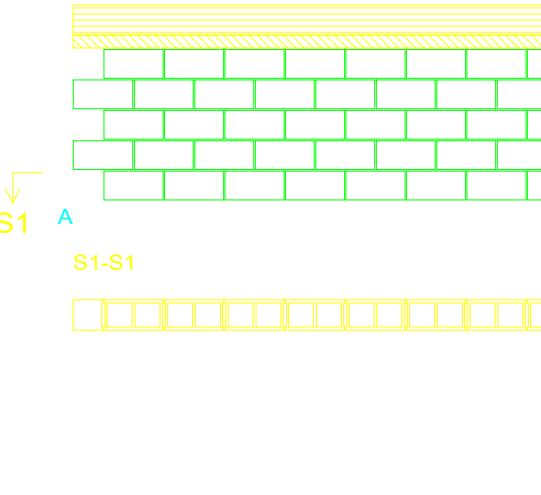
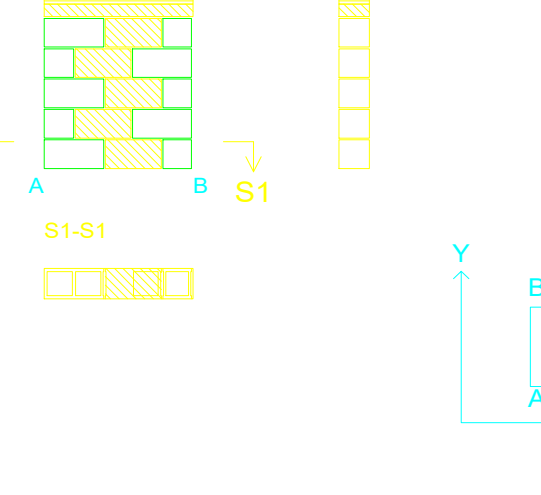
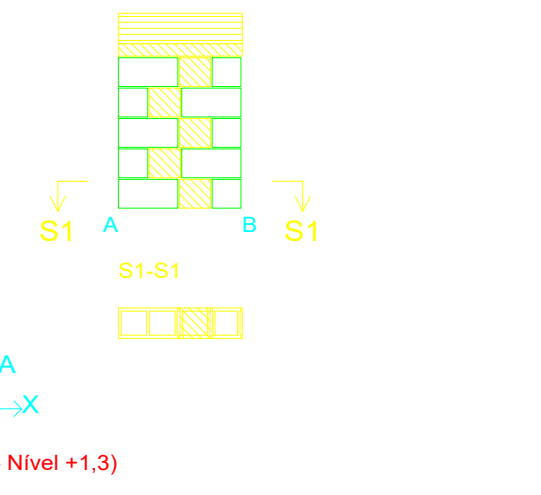
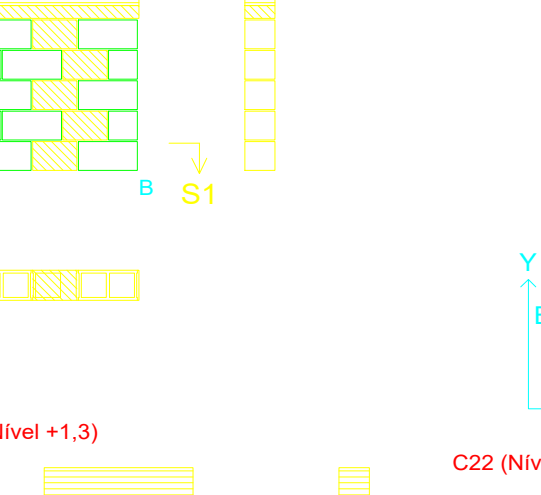
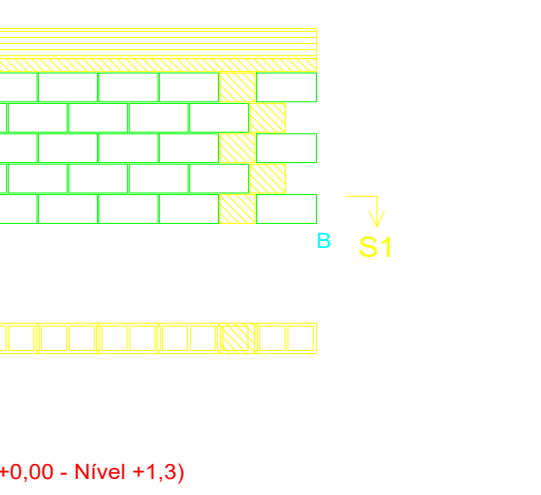
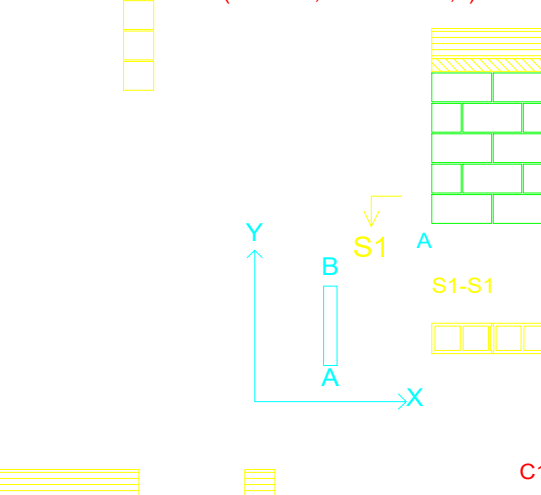
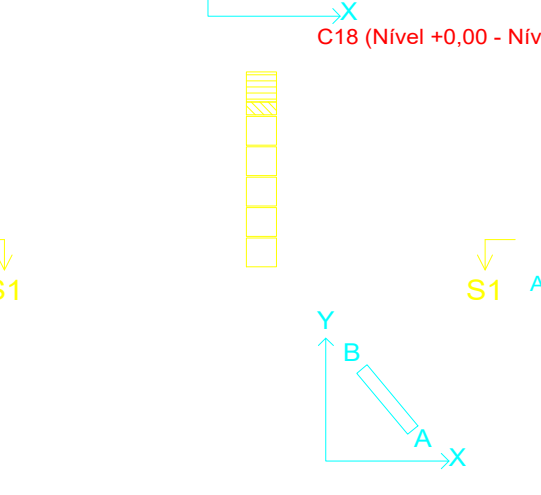
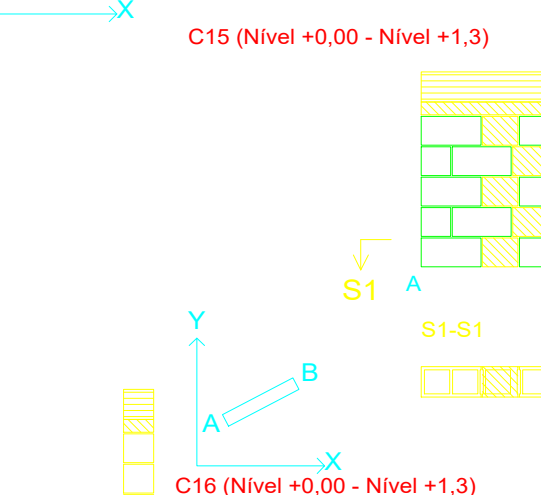
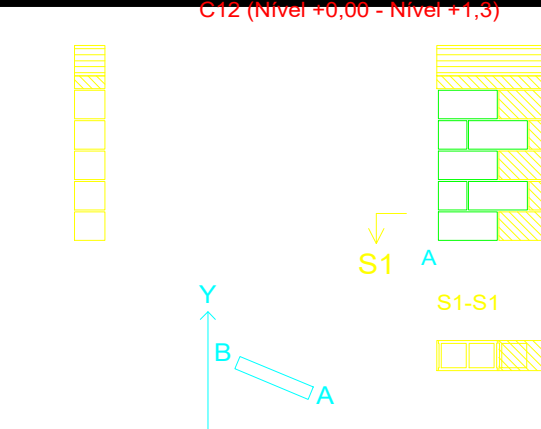
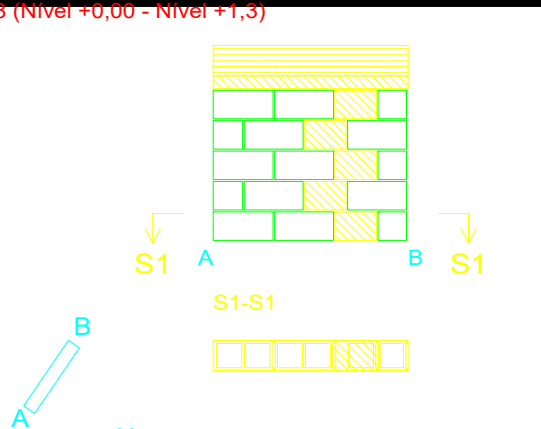
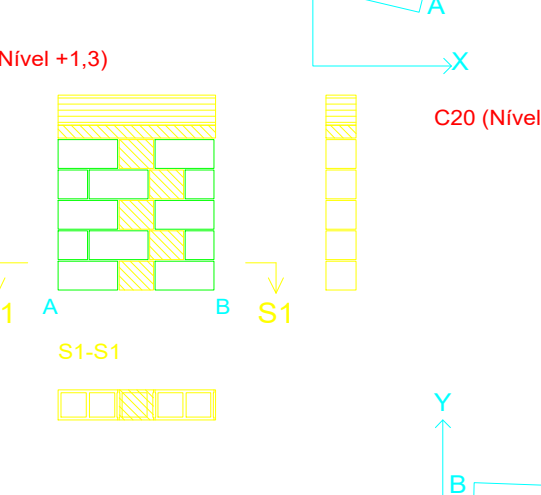
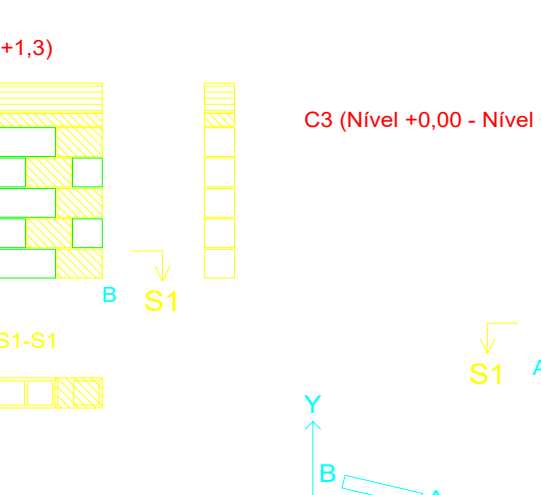
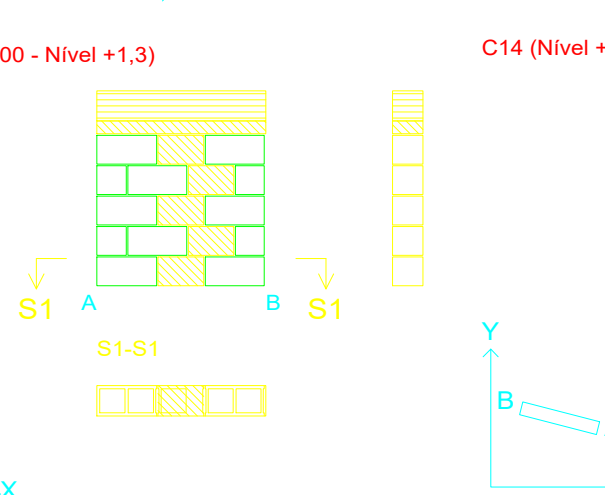
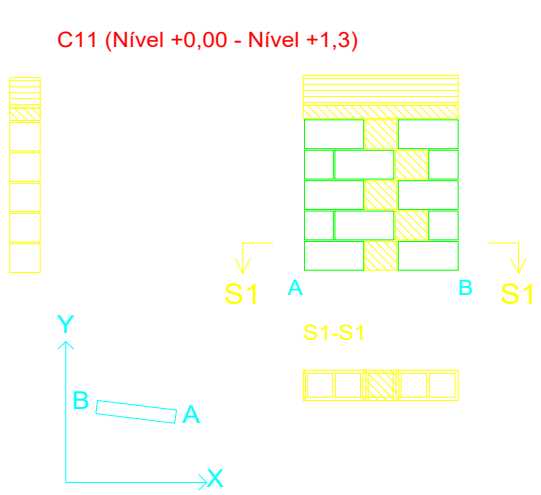
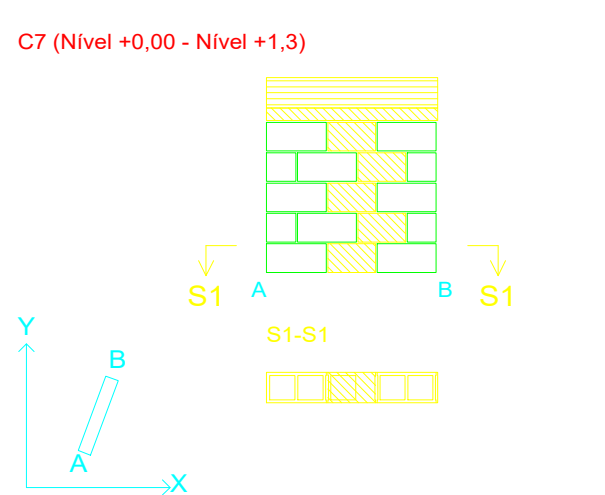
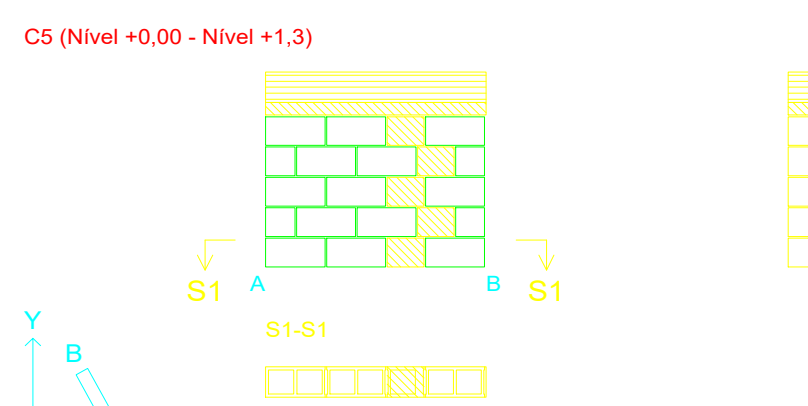
Escala: 1:50  
cintas pista skate - esquerda 1,30  
Tramo / Laje  
Peça especial de preenchimento

| Tabela de aço para alvenarias de blocos de concreto |                   |
|-----------------------------------------------------|-------------------|
| Reforços verticais                                  | CA-50-A e CA-60-B |
| Reforços horizontais                                | CA-50-A e CA-60-B |

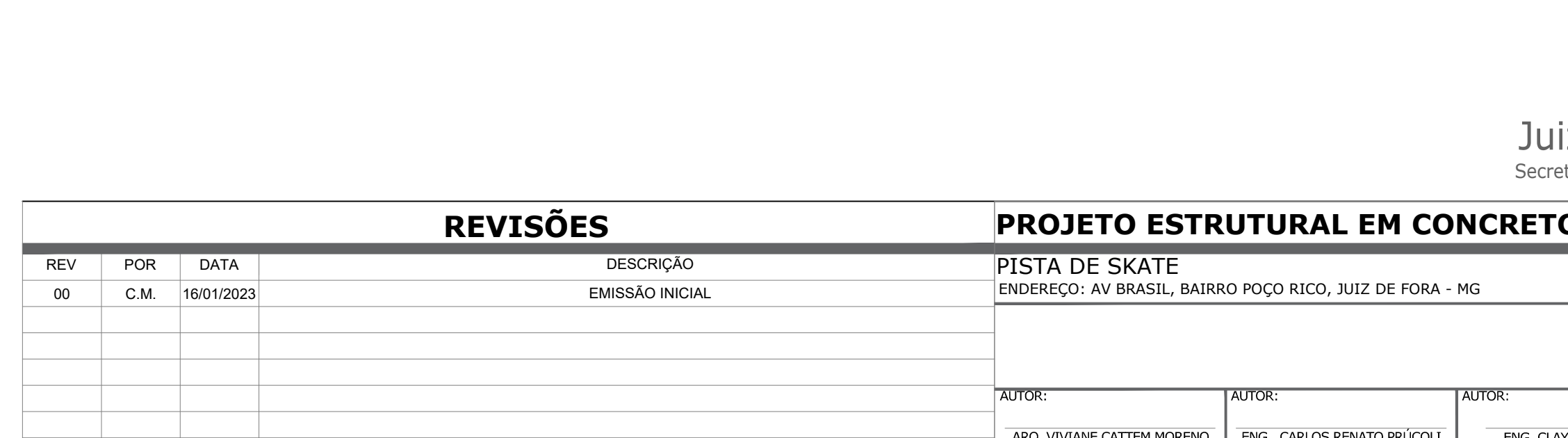
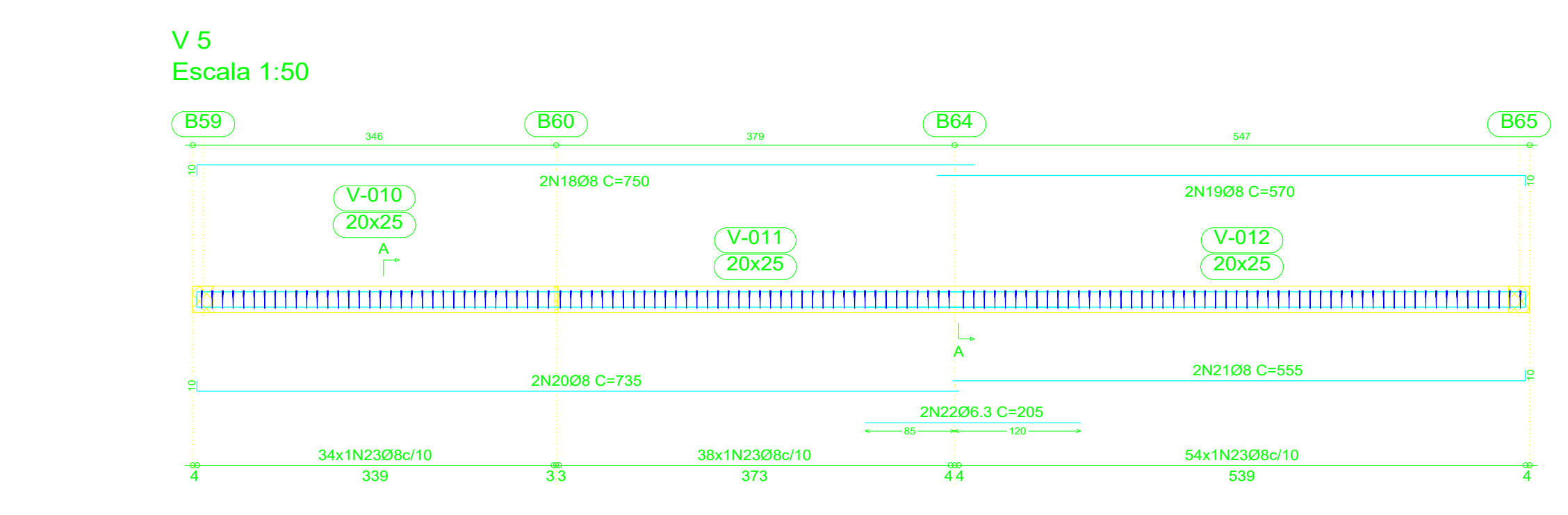
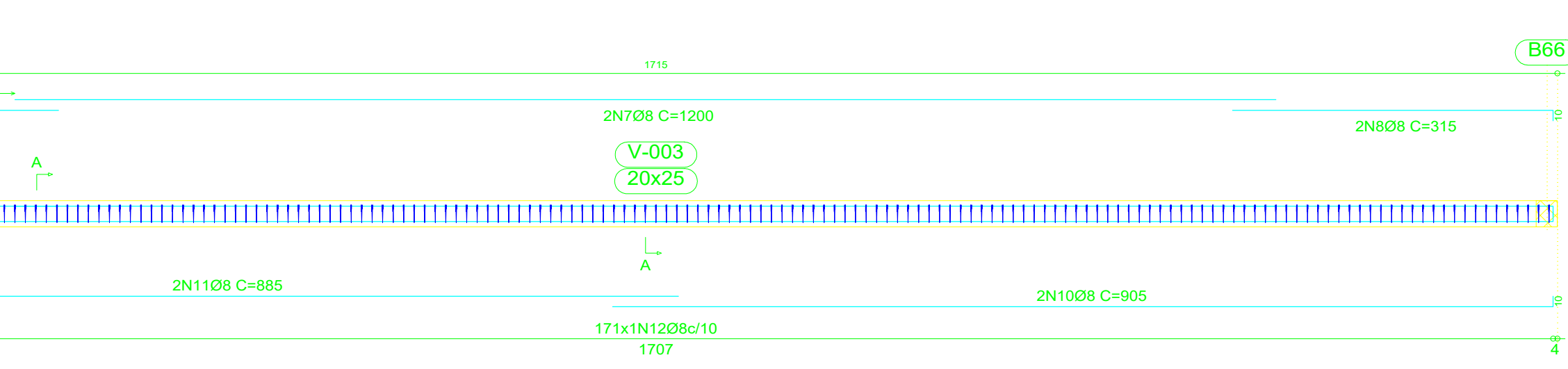
| Trespases para reforços de alvenaria de blocos armados |                                   |
|--------------------------------------------------------|-----------------------------------|
| Tipo de armadura                                       | Diâmetro Comprimento de trespasse |
| Armadura vertical                                      | Ø4.2 94 cm                        |

Nível +0,00  
Desenho de vigas  
Aço: CA-50-A e CA-60-B  
Escala vigas: 1:50  
Escala seções: 1:25  
Nota: A disposição de blocos que se desenha corresponde à primeira fiada, exceto se o muro termina no piso, cujo caso corresponde à última fiada do piso inferior.

| Resumo Aço        | Comp. total (m) | Peso+10% (kg) | Total |
|-------------------|-----------------|---------------|-------|
| Nível +0,00 Vigas |                 |               |       |
| CA-50-A Ø6.3      | 4.1             | 1             | 319   |
| Ø8                | 735.6           | 318           |       |



| Elemento   | Pos.       | Diam. | Q.  | Dob. (cm) | Reta (cm) | Dob. (cm) | Comp. (cm) | Total (cm) | CA-50-A (kg) | CA-60-B (kg) |
|------------|------------|-------|-----|-----------|-----------|-----------|------------|------------|--------------|--------------|
| V 1        | 1          | Ø8    | 2   | 10        | 953       | 10        | 973        | 1946       | 7.6          |              |
|            | 2          | Ø8    | 2   | 10        | 953       | 10        | 973        | 1946       | 7.6          |              |
|            | 3          | Ø8    | 96  |           |           |           | 74         | 7104       | 27.9         |              |
| Total+10%: |            |       |     |           |           |           |            |            | 47.4         |              |
| V 2        | 4          | Ø8    | 2   | 10        | 121       | 10        | 141        | 282        | 1.1          |              |
|            | 5          | Ø8    | 2   | 10        | 121       | 10        | 141        | 282        | 1.1          |              |
|            | 6          | Ø8    | 13  |           |           |           | 74         | 962        | 3.8          |              |
| Total+10%: |            |       |     |           |           |           |            |            | 6.6          |              |
| V 3        | 7          | Ø8    | 2   | 10        | 1200      | 10        | 1200       | 2400       | 9.4          |              |
|            | 8          | Ø8    | 2   | 10        | 285       | 10        | 305        | 630        | 2.5          |              |
|            | 9          | Ø8    | 2   | 10        | 895       | 10        | 905        | 1810       | 7.1          |              |
|            | 10         | Ø8    | 2   | 10        | 875       | 10        | 885        | 1770       | 6.9          |              |
|            | 11         | Ø8    | 2   | 10        | 875       | 10        | 885        | 1770       | 6.9          |              |
|            | 12         | Ø8    | 171 |           |           |           | 74         | 12654      | 49.7         |              |
| Total+10%: |            |       |     |           |           |           |            |            | 85.7         |              |
| V 4        | 13         | Ø8    | 2   | 10        | 1005      | 10        | 1015       | 2030       | 8.0          |              |
|            | 14         | Ø8    | 2   | 10        | 805       | 10        | 815        | 1630       | 6.4          |              |
|            | 15         | Ø8    | 2   | 10        | 995       | 10        | 1005       | 2010       | 7.9          |              |
|            | 16         | Ø8    | 2   | 10        | 795       | 10        | 805        | 1610       | 6.3          |              |
|            | 17         | Ø8    | 179 |           |           |           | 74         | 13246      | 52.0         |              |
|            | Total+10%: |       |     |           |           |           |            |            |              | 88.7         |
| V 5        | 18         | Ø8    | 2   | 10        | 740       | 10        | 750        | 1500       | 5.9          |              |
|            | 19         | Ø8    | 2   | 10        | 560       | 10        | 570        | 1140       | 4.5          |              |
|            | 20         | Ø8    | 2   | 10        | 725       | 10        | 735        | 1470       | 5.8          |              |
|            | 21         | Ø8    | 2   | 10        | 545       | 10        | 555        | 1110       | 4.4          |              |
|            | 22         | Ø6.3  | 2   | 10        | 205       | 10        | 205        | 410        | 1.0          |              |
|            | 23         | Ø8    | 126 |           |           |           | 74         | 9324       | 36.6         |              |
| Total+10%: |            |       |     |           |           |           |            |            | 64.0         |              |
| V 6        | 24         | Ø8    | 2   | 10        | 527       | 10        | 547        | 1094       | 4.3          |              |
|            | 25         | Ø8    | 2   | 10        | 527       | 10        | 547        | 1094       | 4.3          |              |
|            | 26         | Ø8    | 53  |           |           |           | 74         | 3922       | 15.4         |              |
| Total+10%: |            |       |     |           |           |           |            |            | 26.4         |              |
| Ø6.3:      |            |       |     |           |           |           |            |            | 1.1          | 0.0          |
| Ø8:        |            |       |     |           |           |           |            |            | 317.7        | 0.0          |
| Total:     |            |       |     |           |           |           |            |            | 318.8        | 0.0          |



DE ACORDO COM A LEGISLAÇÃO VIGENTE, CABA AO AUTOR DO PROJETO QUALQUER ALTERAÇÃO, BEM COMO OS DIREITOS AUTORAIS SOBRE O MESMO. TODAS AS MEDIDAS DEVERÃO SER CONFERIDAS NO LOCAL.

Juiz de Fora  
Secretaria de Obras - SO

| REVISÕES |      |            |                  | PROJETO ESTRUTURAL EM CONCRETO ARMADO                    |                                                 |                                             |
|----------|------|------------|------------------|----------------------------------------------------------|-------------------------------------------------|---------------------------------------------|
| REV      | POR  | DATA       | DESCRIÇÃO        | PISTA DE SKATE                                           |                                                 |                                             |
| 00       | C.M. | 16/01/2023 | EMISSION INICIAL | ENDEREÇO: AV BRASIL, BAIRRO POÇO RICO, JUIZ DE FORA - MG |                                                 |                                             |
|          |      |            |                  | AUTOR:                                                   | AUTOR:                                          | AUTOR:                                      |
|          |      |            |                  | ARQ. VIVIANE CATTEM MORENO<br>CAU/ES: A158072-8          | ENG. CARLOS RENATO PRÓCULI<br>CREA/ES: 031715-D | ENG. CLAYTON MONTANARO<br>CREA/ES: 047798/D |

DESENHO: CLAYTON MONTANARO  
ESCALA: INDICADA  
DATA: 26/01/2023  
CÓDIGO: ESTRU-SKT-JF-12  
PRANCHAS:  
**12/18**  
RVD-2001/2023