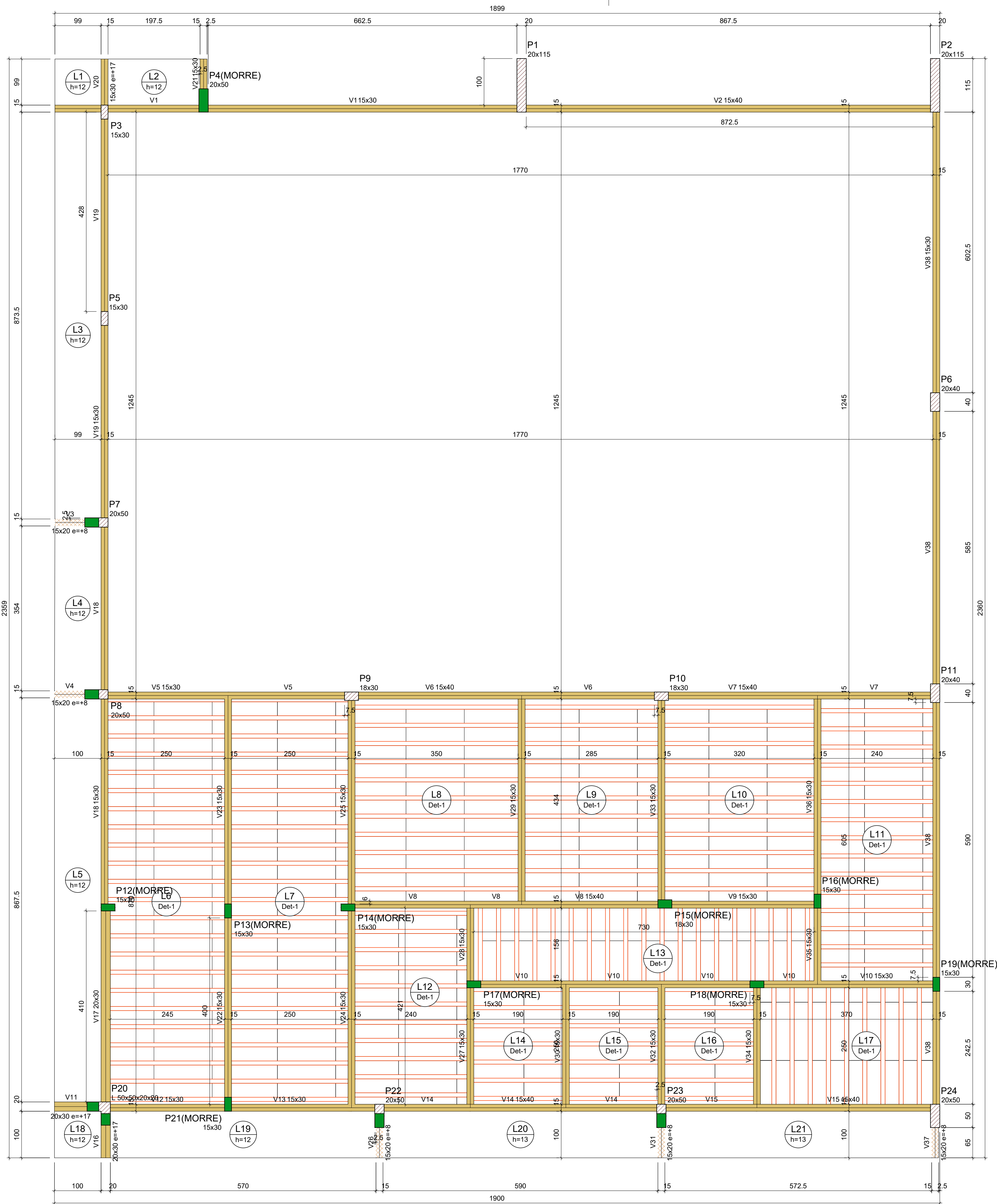




Forma do pavimento LAJE IMP. (Nível 375)

escala 1:50

| Blocos de enchimento |                   |           |               |    |     |            |
|----------------------|-------------------|-----------|---------------|----|-----|------------|
| Detalhe              | Tipo              | Nome      | Dimensões(cm) |    |     | Quantidade |
|                      |                   |           | hb            | bx | by  |            |
| 1                    | EPS Unidirecional | B8/30/125 | 8             | 30 | 125 | 414        |

| Lajes |             |             |               |            |                       | Sobrecarga (kgf/m²) |           |            |
|-------|-------------|-------------|---------------|------------|-----------------------|---------------------|-----------|------------|
| Nome  | Tipo        | Dados       |               |            | Peso próprio (kgf/m²) | Adicional           | Acidental | Localizada |
|       |             | Altura (cm) | Elevação (cm) | Nível (cm) |                       |                     |           |            |
| L1    | Maciça      | 12          | 0             | 375        | 300                   | 50                  | 100       | -          |
| L2    | Maciça      | 12          | 0             | 375        | 300                   | 50                  | 100       | -          |
| L3    | Maciça      | 12          | 0             | 375        | 300                   | 50                  | 100       | -          |
| L4    | Maciça      | 12          | 0             | 375        | 300                   | 50                  | 100       | -          |
| L5    | Maciça      | 12          | 0             | 375        | 300                   | 50                  | 100       | -          |
| L6    | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 100       | -          |
| L7    | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 100       | -          |
| L8    | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 100       | -          |
| L9    | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 100       | -          |
| L10   | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 200       | -          |
| L11   | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 200       | -          |
| L12   | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 200       | -          |
| L13   | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 200       | -          |
| L14   | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 200       | -          |
| L15   | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 200       | -          |
| L16   | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 200       | -          |
| L17   | Trelçada 1D | 13          | 0             | 375        | 172                   | 50                  | 200       | -          |
| L18   | Maciça      | 12          | 0             | 375        | 300                   | 50                  | 100       | -          |
| L19   | Maciça      | 12          | 0             | 375        | 300                   | 50                  | 100       | -          |
| L20   | Maciça      | 13          | 0             | 375        | 325                   | 50                  | 100       | -          |
| L21   | Maciça      | 13          | 0             | 375        | 325                   | 50                  | 100       | -          |

| Área de lajes |             |                     |           |
|---------------|-------------|---------------------|-----------|
| Tipo          | Altura (cm) | Bloco de Enchimento | Área (m²) |
| Maciça        | 12          | -                   | 30.43     |
| Trelçada 1D   | 13          | B8/30/125           | 144.19    |

| Características dos materiais |               |               |                 |
|-------------------------------|---------------|---------------|-----------------|
| fck (kgf/cm²)                 | Ecs (kgf/cm²) | fct (kgf/cm²) | Abatimento (cm) |
| 300                           | 268384        | 29            | 5.00            |

Dimensão máxima do agregado = 19 mm

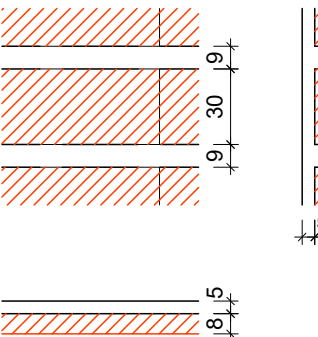
| Pilares |               |               |            |
|---------|---------------|---------------|------------|
| Nome    | Seção (cm)    | Elevação (cm) | Nível (cm) |
| P1      | 20x115        | 0             | 375        |
| P2      | 20x115        | 0             | 375        |
| P3      | 15x30         | 0             | 375        |
| P4      | 20x50         | 0             | 375        |
| P5      | 15x30         | 0             | 375        |
| P6      | 20x40         | 0             | 375        |
| P7      | 20x50         | 0             | 375        |
| P8      | 20x50         | 0             | 375        |
| P9      | 18x30         | 30            | 405        |
| P10     | 18x30         | 30            | 405        |
| P11     | 20x40         | 0             | 375        |
| P12     | 15x30         | 0             | 375        |
| P13     | 15x30         | 0             | 375        |
| P14     | 15x30         | 0             | 375        |
| P15     | 18x30         | 0             | 375        |
| P16     | 15x30         | 0             | 375        |
| P17     | 15x30         | 0             | 375        |
| P18     | 15x30         | 0             | 375        |
| P19     | 15x30         | 0             | 375        |
| P20     | L 50x50x20x20 | 0             | 375        |
| P21     | 15x30         | 0             | 375        |
| P22     | 20x50         | 0             | 375        |
| P23     | 20x50         | 0             | 375        |
| P24     | 20x50         | 0             | 375        |

| Vigas |            |               |            |
|-------|------------|---------------|------------|
| Nome  | Seção (cm) | Elevação (cm) | Nível (cm) |
| V1    | 15x30      | 0             | 375        |
| V2    | 15x40      | 0             | 375        |
| V3    | 15x20      | 8             | 383        |
| V4    | 15x20      | 8             | 383        |
| V5    | 15x30      | 0             | 375        |
| V6    | 15x40      | 0             | 375        |
| V7    | 15x40      | 0             | 375        |
| V8    | 15x40      | 0             | 375        |
| V9    | 15x30      | 0             | 375        |
| V10   | 15x30      | 0             | 375        |
| V11   | 20x30      | 17            | 392        |
| V12   | 15x30      | 0             | 375        |
| V13   | 15x30      | 0             | 375        |
| V14   | 15x40      | 0             | 375        |
| V15   | 15x40      | 0             | 375        |
| V16   | 20x30      | 17            | 392        |
| V17   | 20x30      | 0             | 375        |
| V18   | 15x30      | 0             | 375        |
| V19   | 15x30      | 0             | 375        |
| V20   | 15x30      | 17            | 392        |
| V21   | 15x30      | 0             | 375        |
| V22   | 15x30      | 0             | 375        |
| V23   | 15x30      | 0             | 375        |
| V24   | 15x30      | 0             | 375        |
| V25   | 15x30      | 0             | 375        |
| V26   | 15x20      | 8             | 383        |
| V27   | 15x30      | 0             | 375        |
| V28   | 15x30      | 0             | 375        |
| V29   | 15x30      | 0             | 375        |
| V30   | 15x30      | 0             | 375        |
| V31   | 15x20      | 8             | 383        |
| V32   | 15x30      | 0             | 375        |
| V33   | 15x30      | 0             | 375        |
| V34   | 15x30      | 0             | 375        |
| V35   | 15x30      | 0             | 375        |
| V36   | 15x30      | 0             | 375        |
| V37   | 15x20      | 8             | 383        |
| V38   | 15x30      | 0             | 375        |

| Legenda dos pilares |                            |
|---------------------|----------------------------|
|                     | Pilar que morre            |
|                     | Pilar que passa            |
|                     | Pilar com mudança de seção |

| Legenda das vigas e paredes |                         |
|-----------------------------|-------------------------|
|                             | Viga                    |
|                             | Viga chata ou invertida |

Detalhe 1 (esc. 1:30)



Nº

ALTERAÇÃO/REVISÕES

REVISADO POR

DATA



INSTITUTO FEDERAL  
SERGIPE

AUTOR DO PROJETO:

Engº. Fredrico Damasceno Pinheiro

CREA 270082778-3

ENDEREÇO:

Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE

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TEL: (79)3711-3139

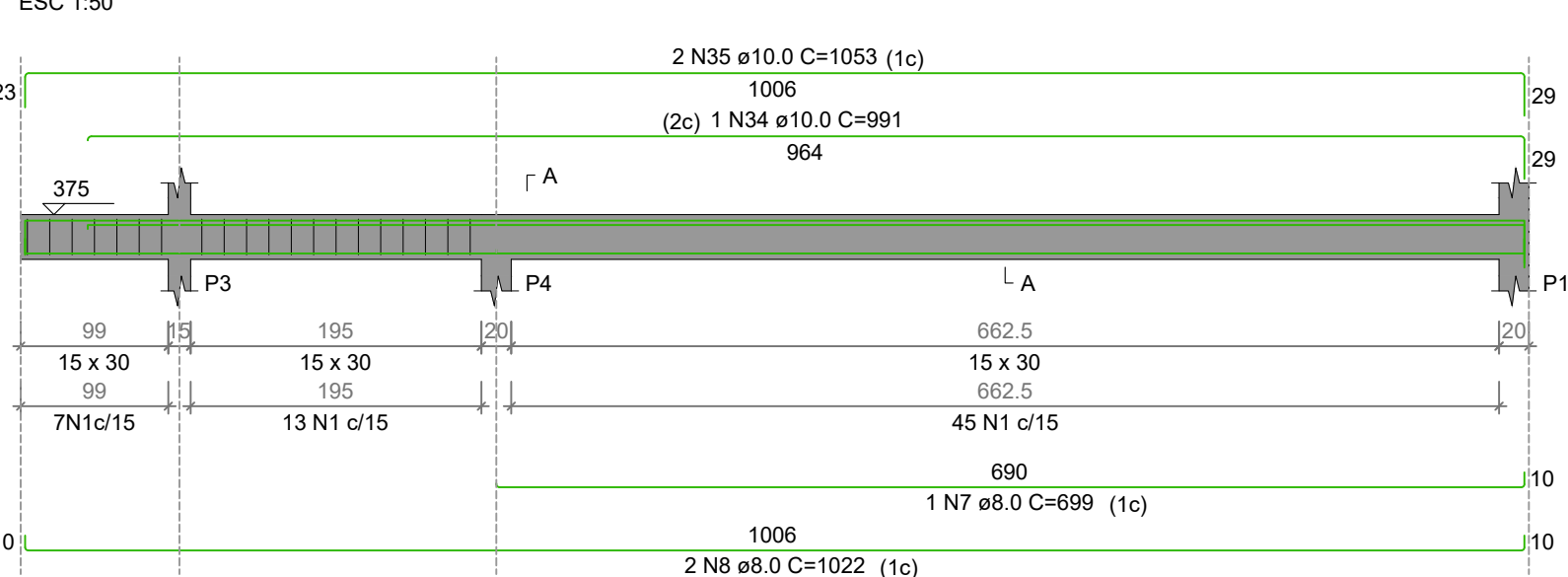


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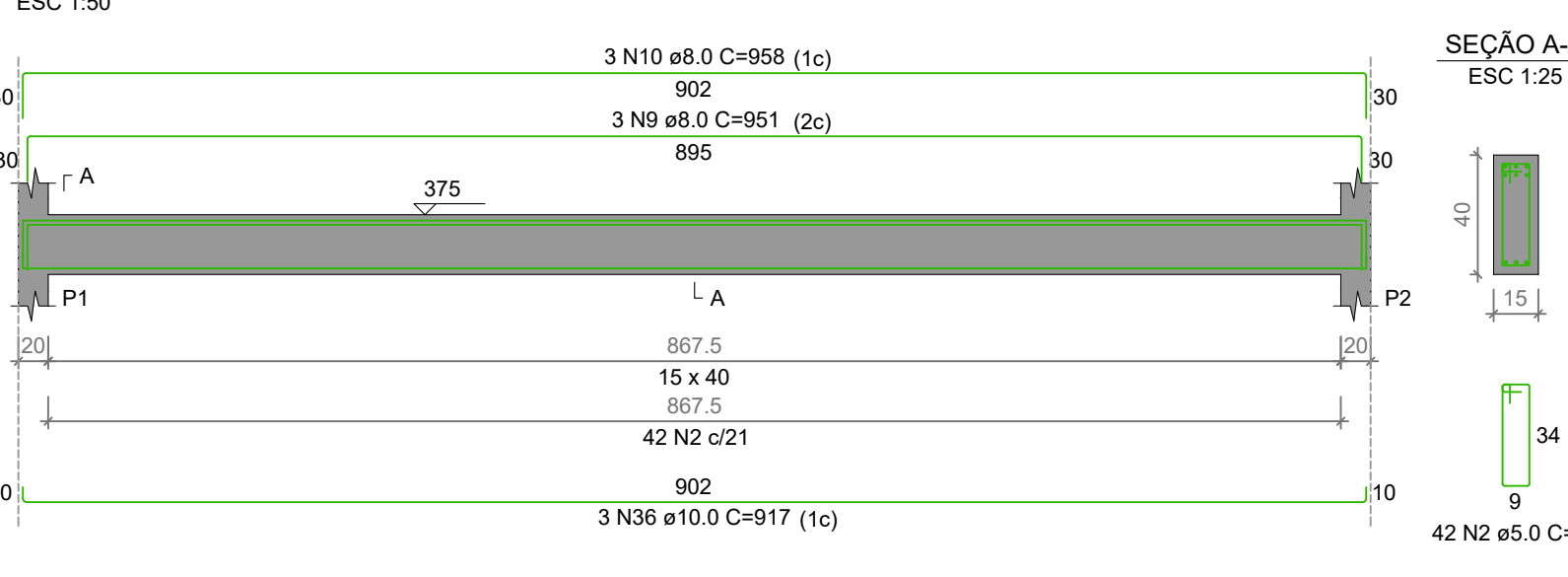
PROJETO ESTRUTURAL  
RESTAURANTE CAMPUS ITABAIANA - SE

|                                                                 |                                                                       |          |            |
|-----------------------------------------------------------------|-----------------------------------------------------------------------|----------|------------|
| CLIENTE:                                                        | INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE                  | ESCALA:  | 1:100      |
| ENDEREÇO:                                                       | AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA / SE | DATA:    | ABRIL/2026 |
| PLANTA:                                                         | RESTAURANTE<br>FORMA DAS VIGAS E LAJES                                | PRANCHA: | 10/17      |
| CAMPO: OBRA: ESPECIALIDADE: FASE: SERIA: QUANTITATIVO: REVISÃO: |                                                                       |          |            |
| TTA RES EST PE QTO Q17 R00                                      |                                                                       |          |            |

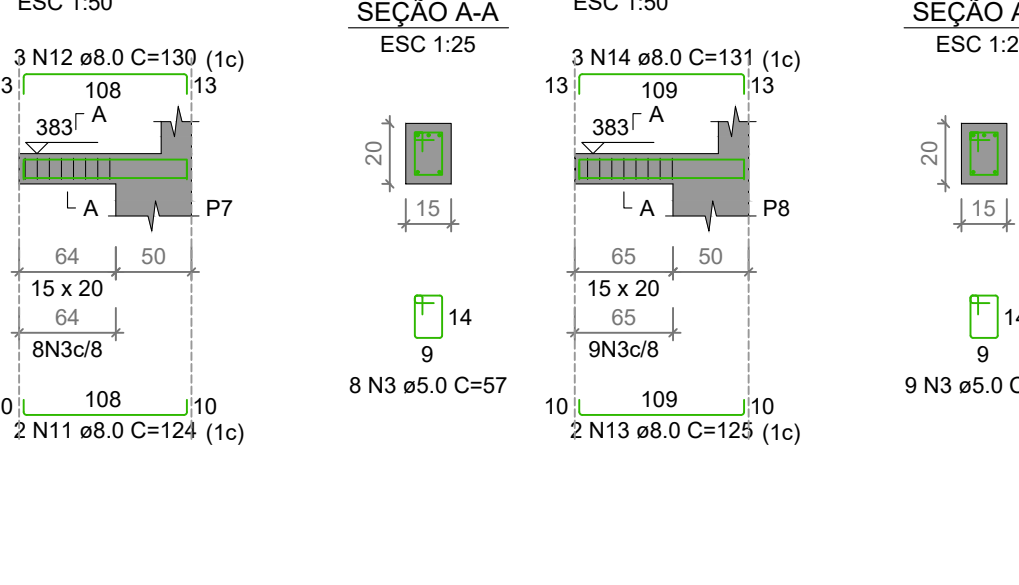
V1 (15 x 30)



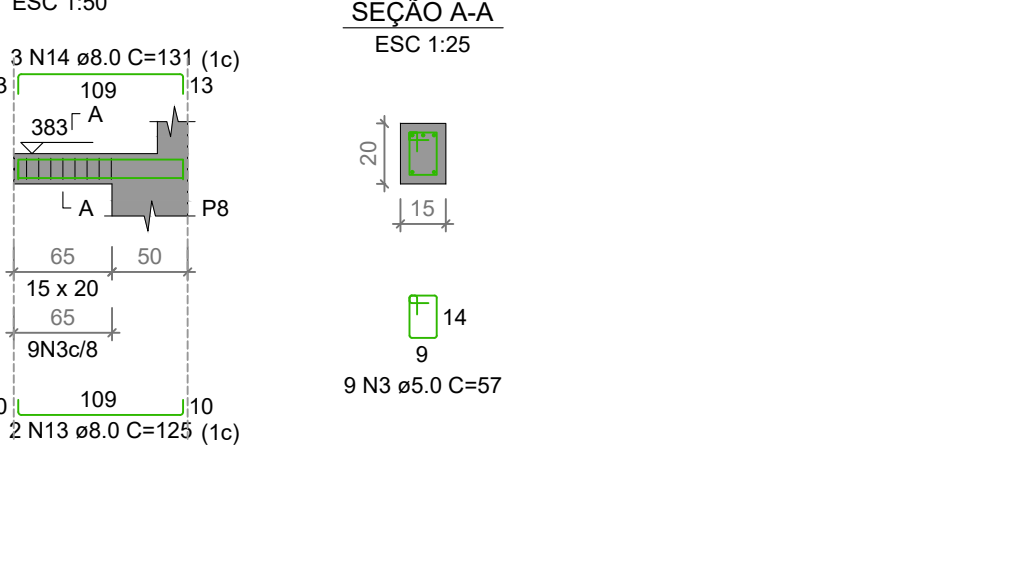
V2 (15 x 40)



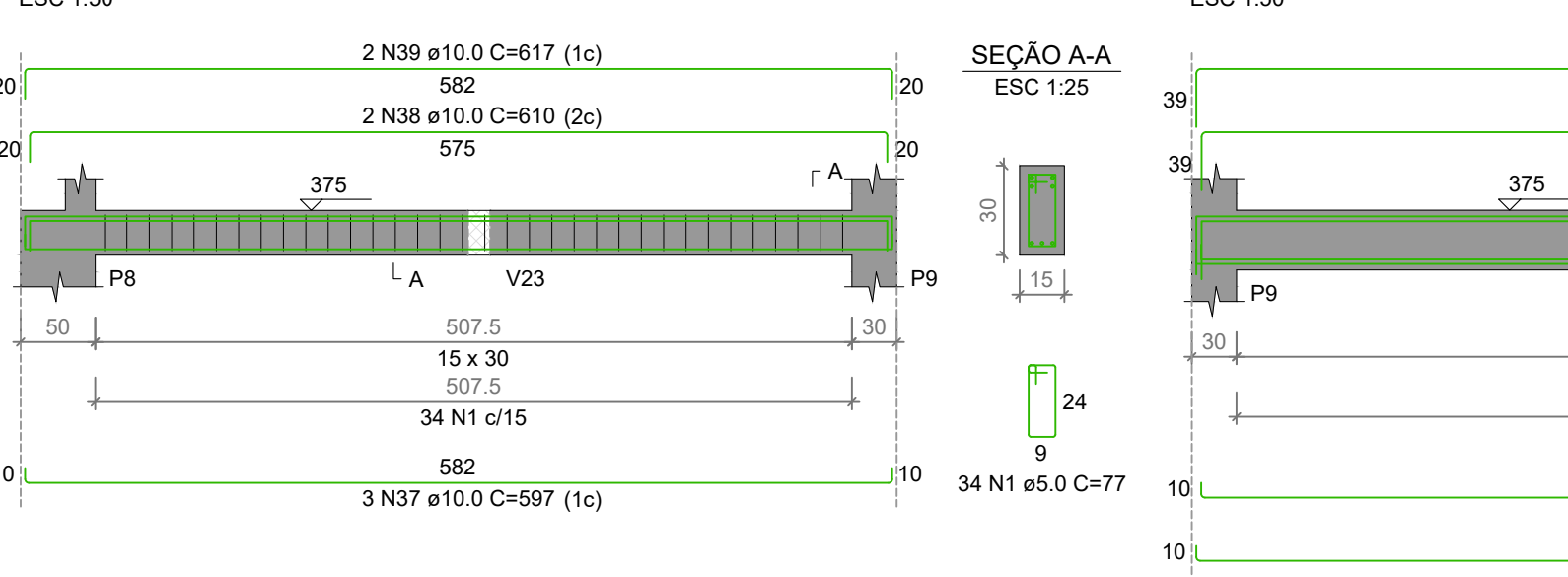
V3 (15 x 20)



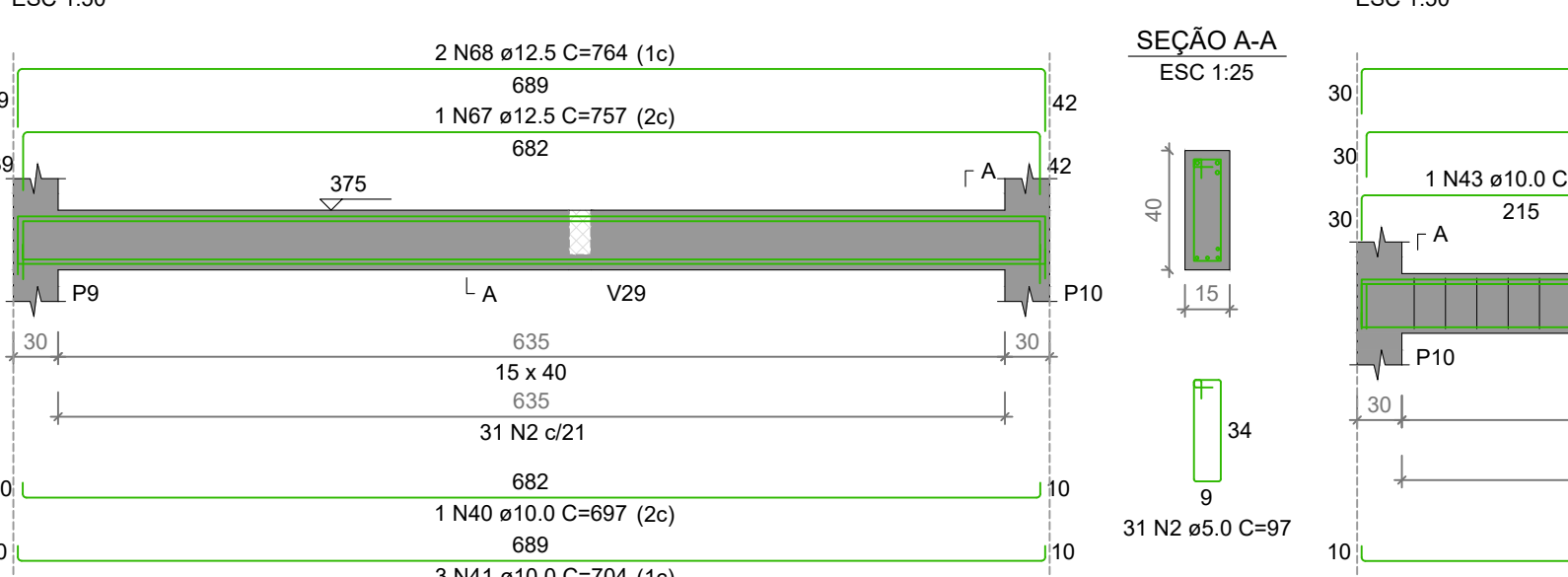
V4 (15 x 20)



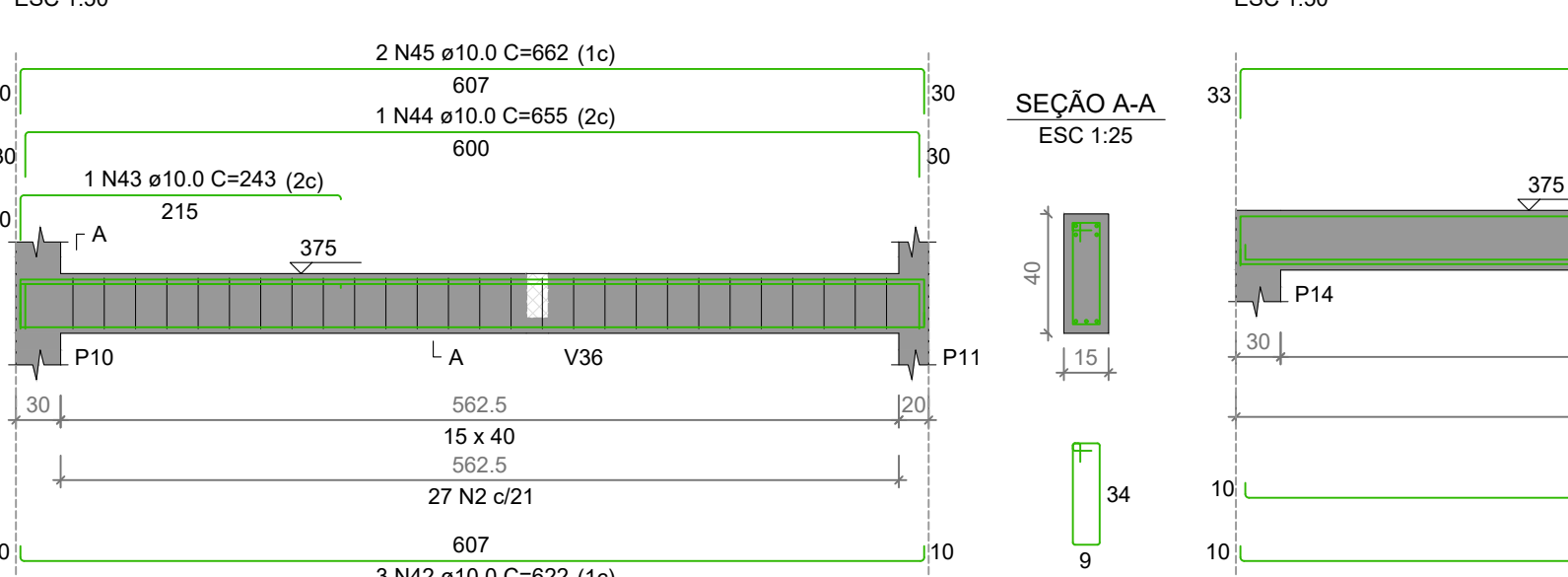
V5 (15 x 30)



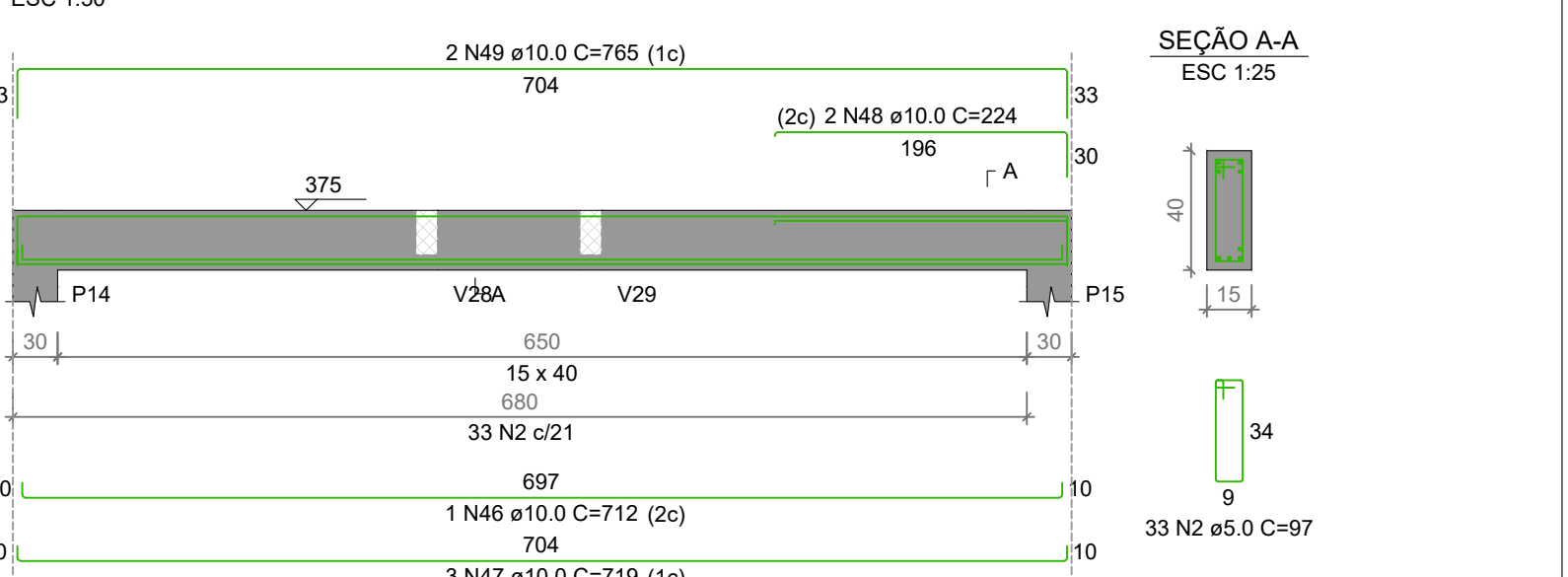
V6 (15 x 40)



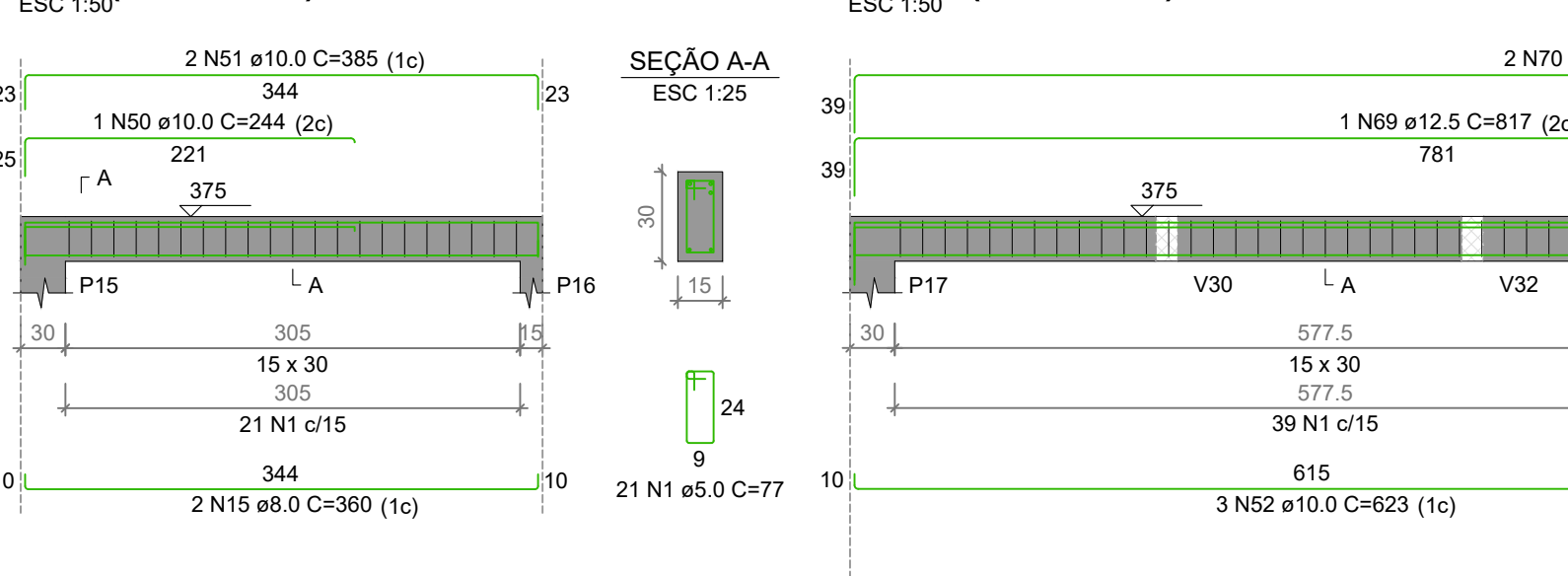
V7 (15 x 40)



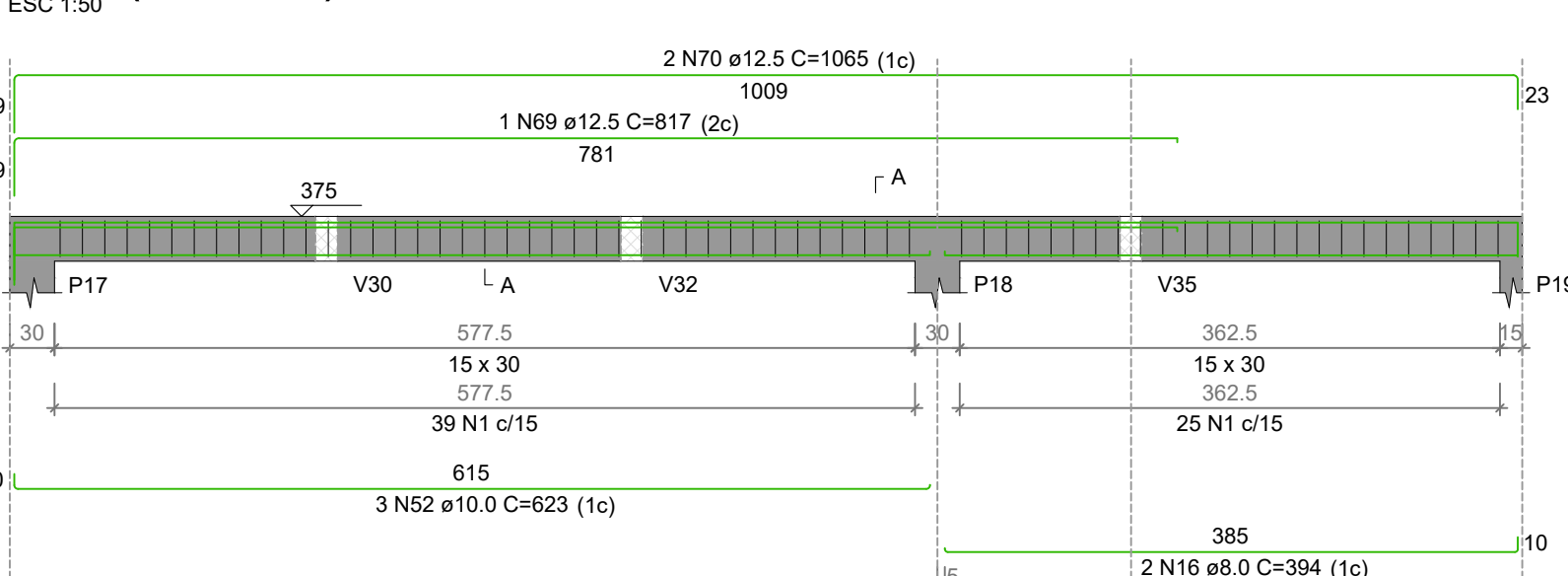
V8 (15 x 40)



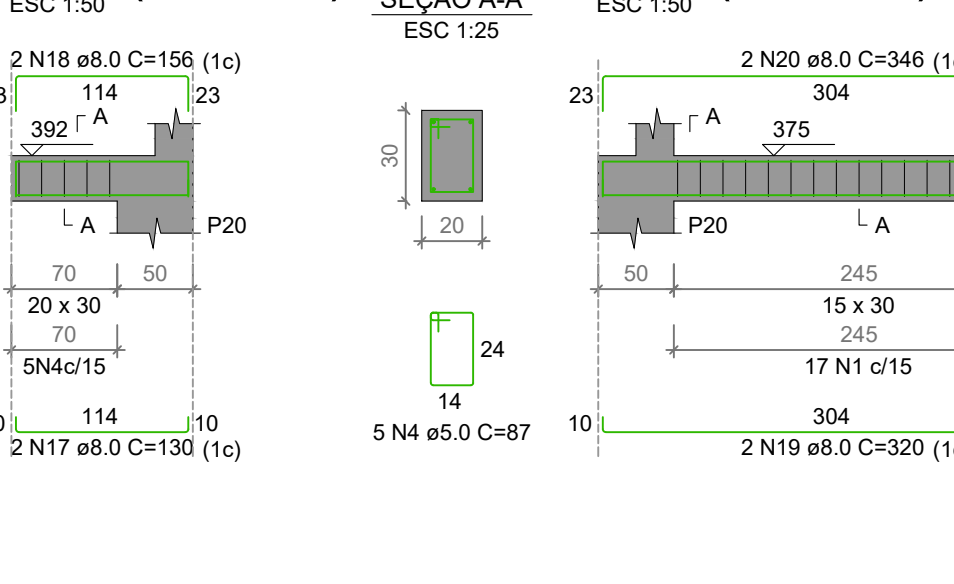
V9 (15 x 30)



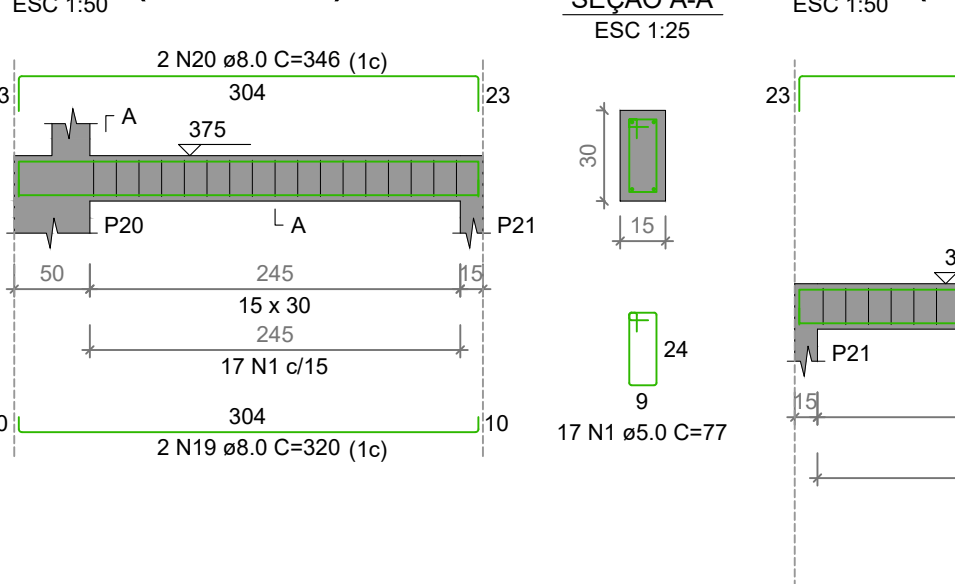
V10 (15 x 30)



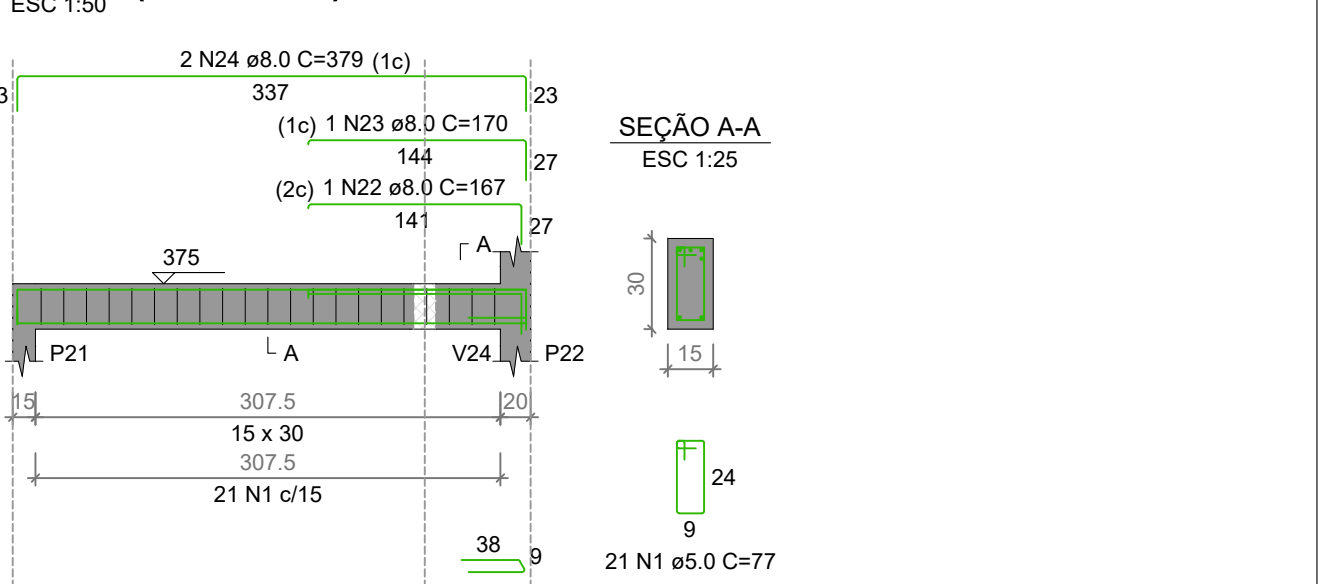
V11 (20 x 30)



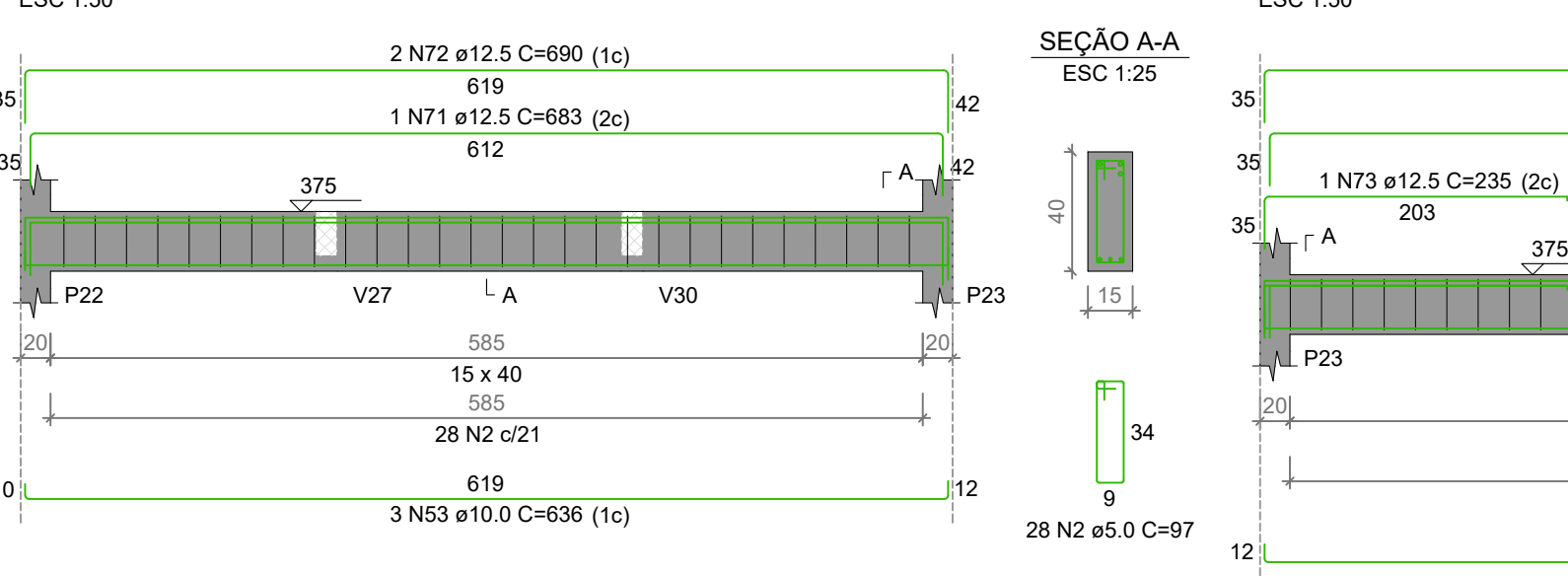
V12 (15 x 30)



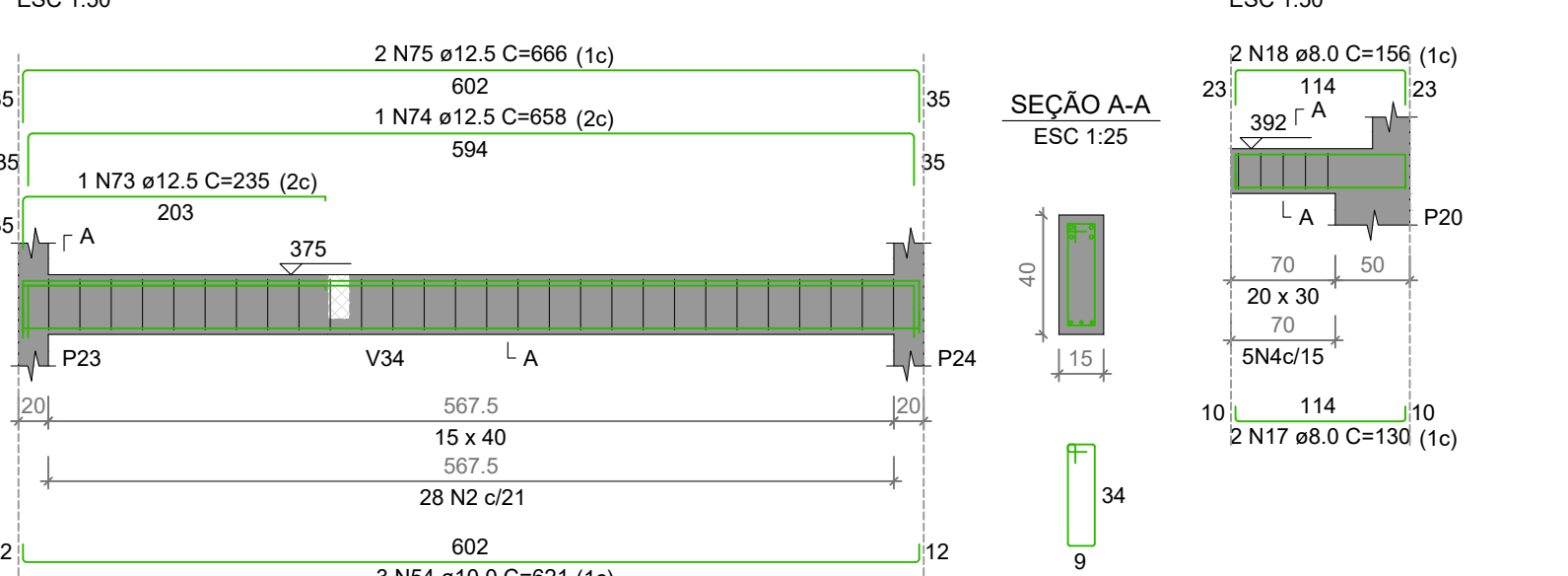
V13 (15 x 30)



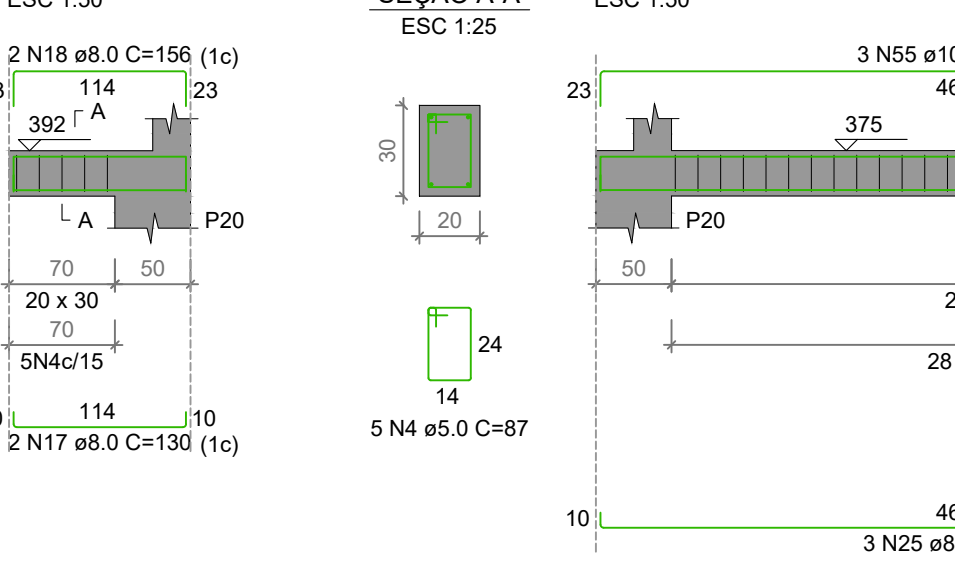
V14 (15 x 40)



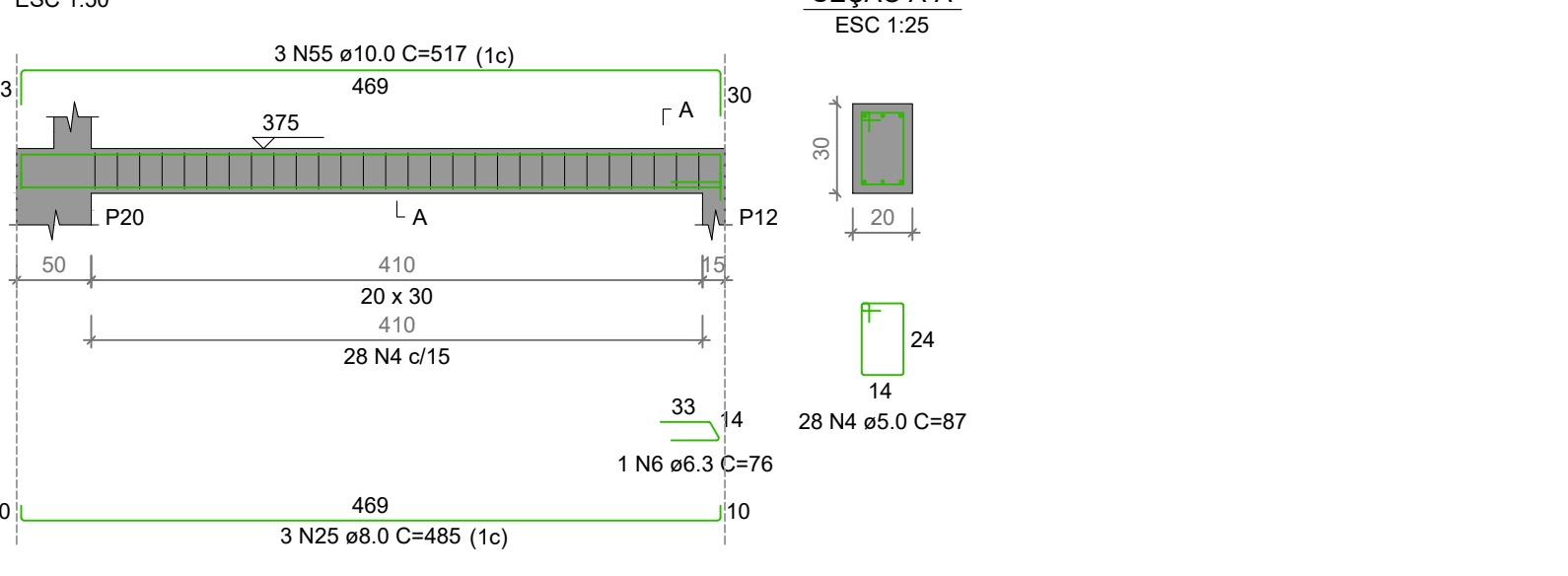
V15 (15 x 40)



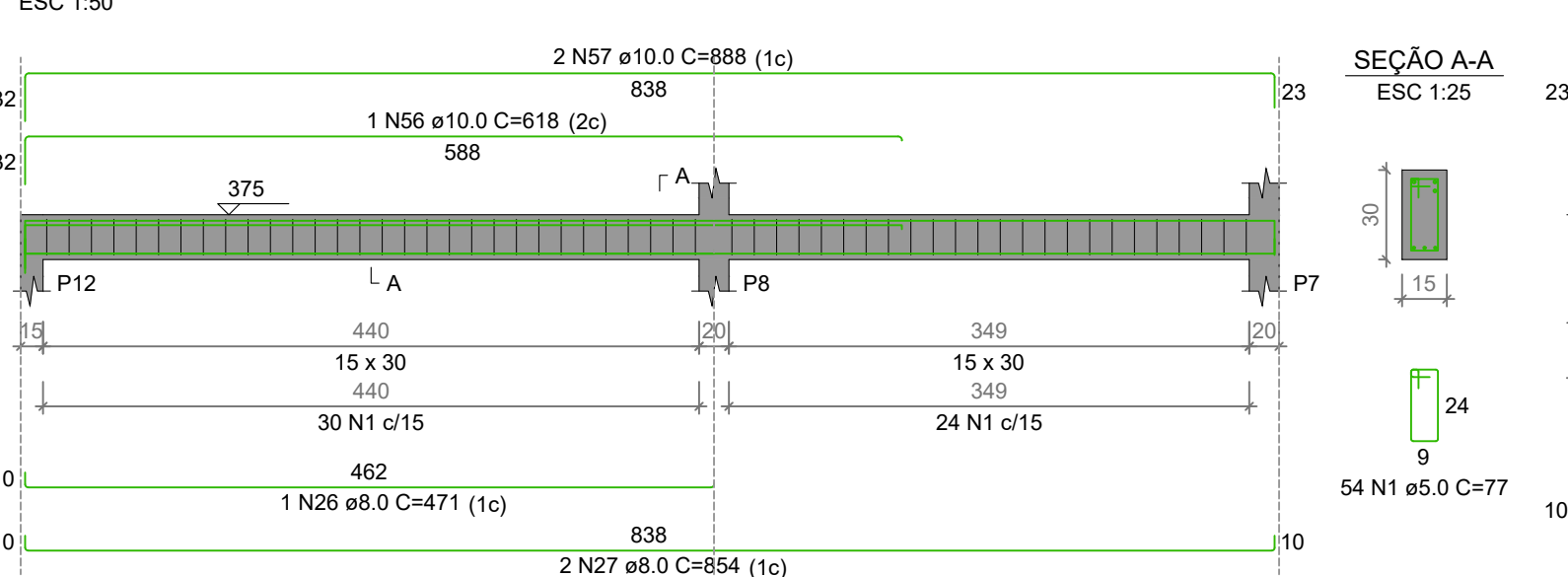
V16 (20 x 30)



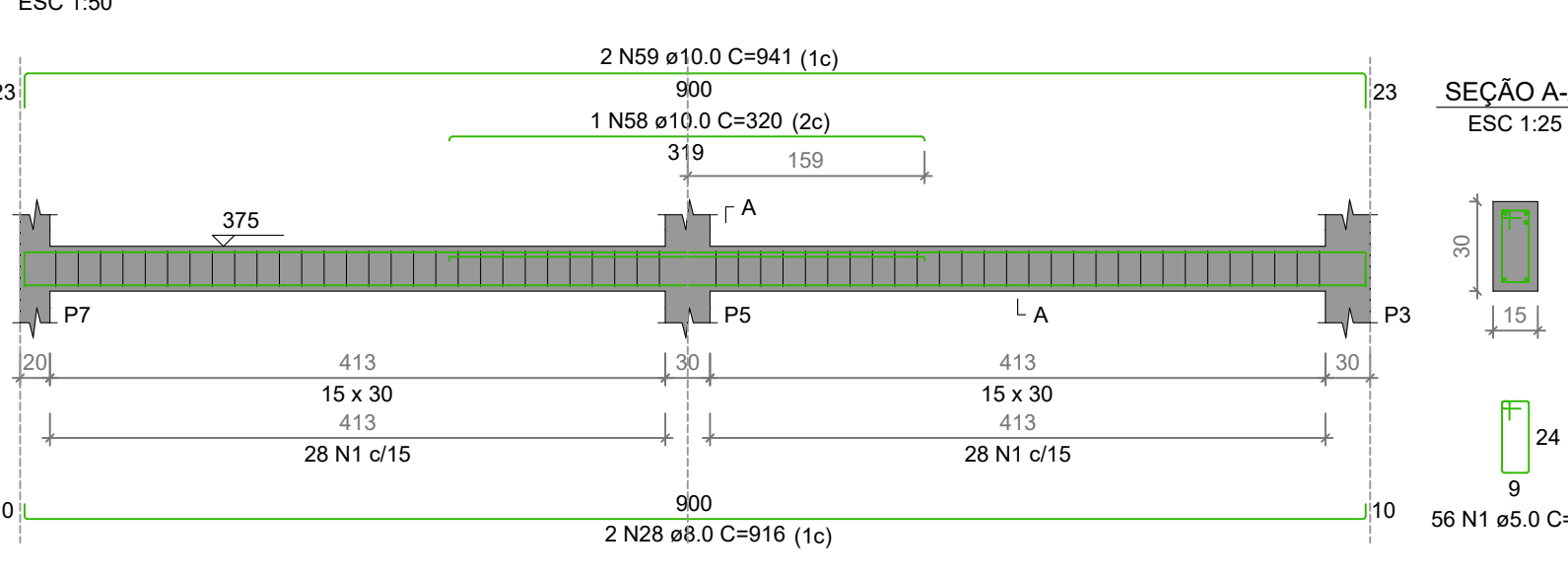
V17 (20 x 30)



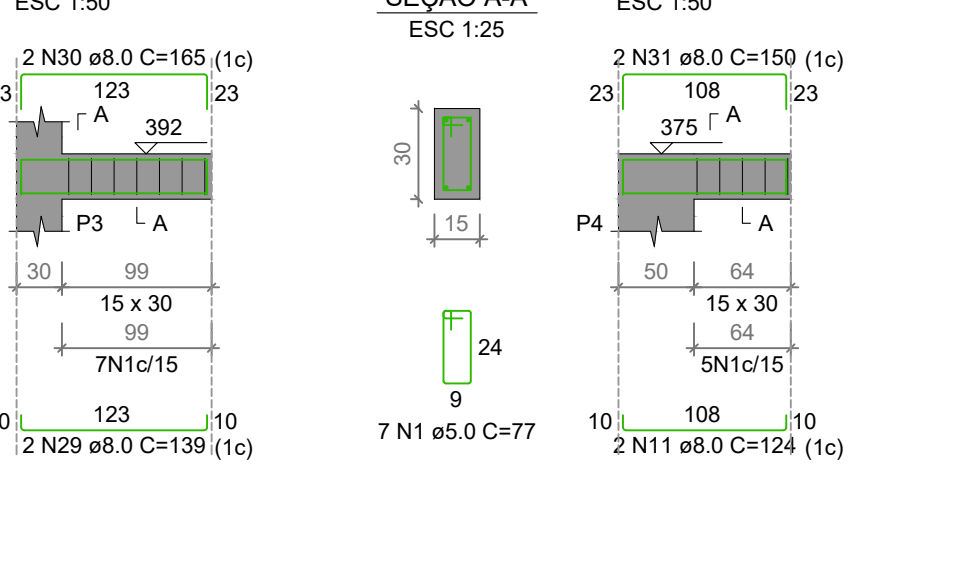
V18 (15 x 30)



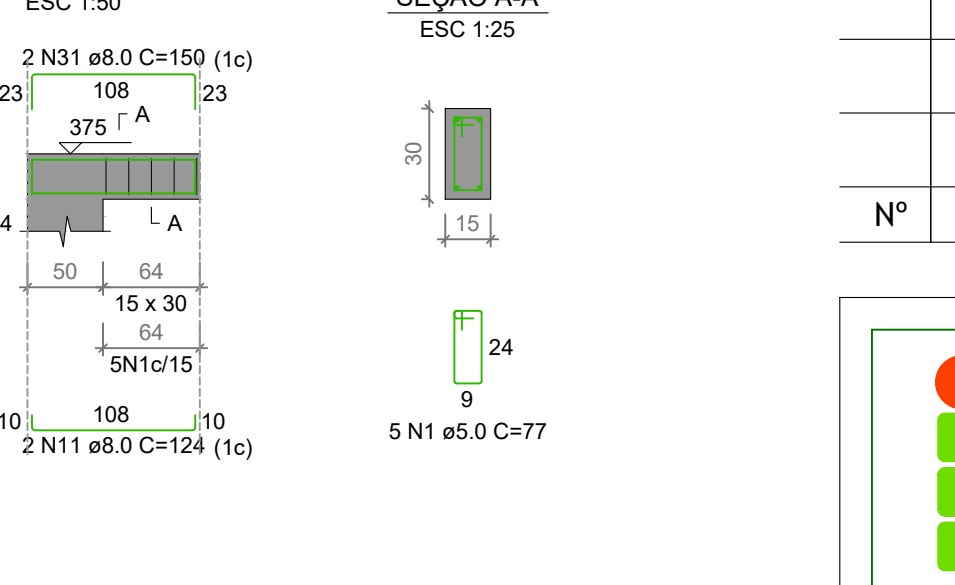
V19 (15 x 30)



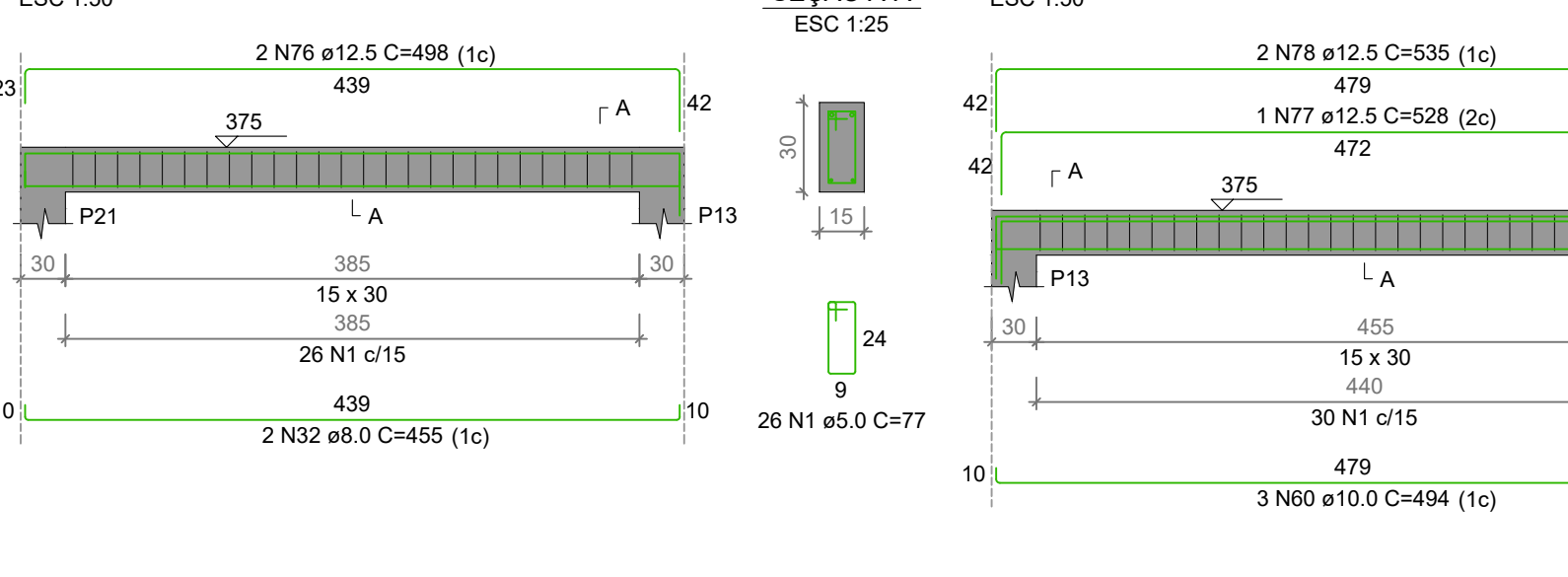
V20 (15 x 30)



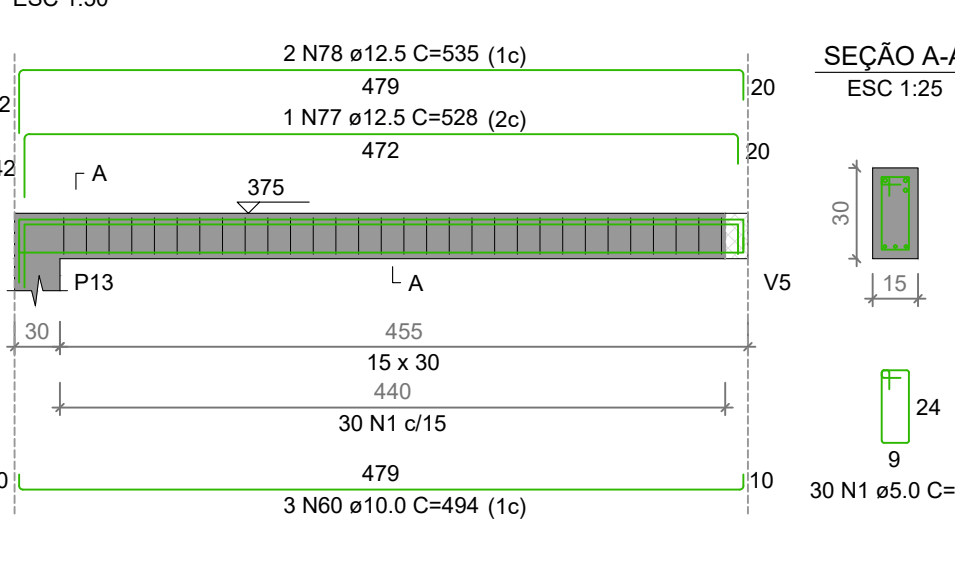
V21 (15 x 30)



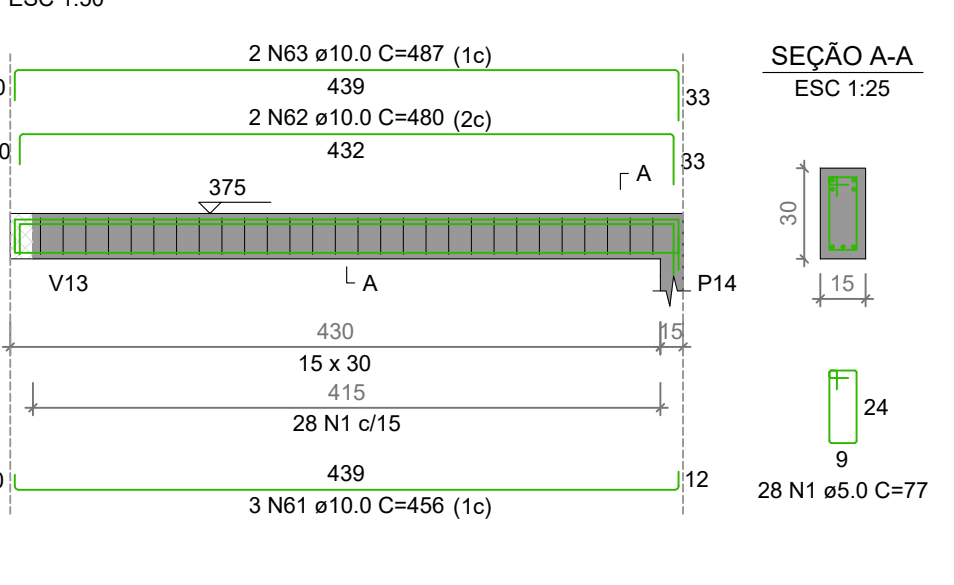
V22 (15 x 30)



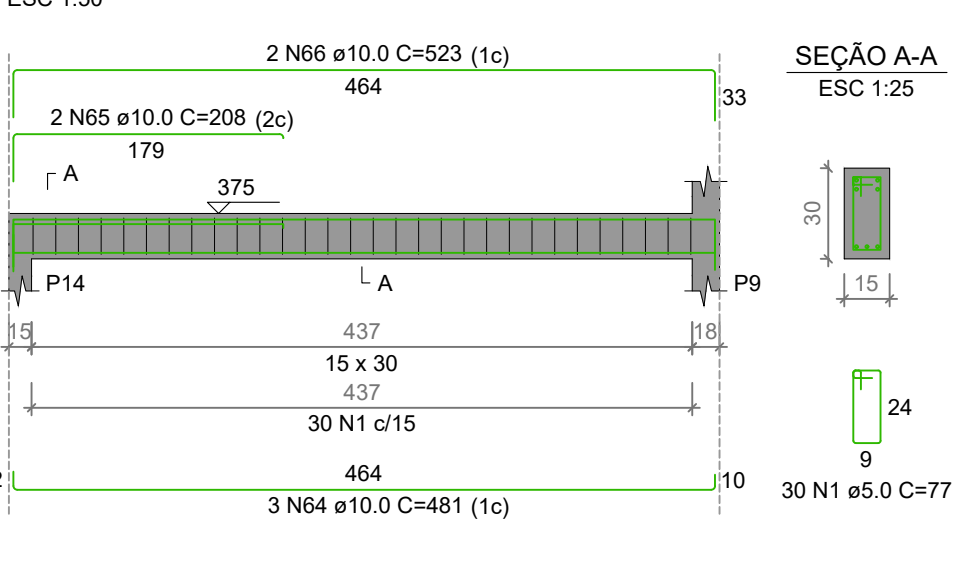
V23 (15 x 30)



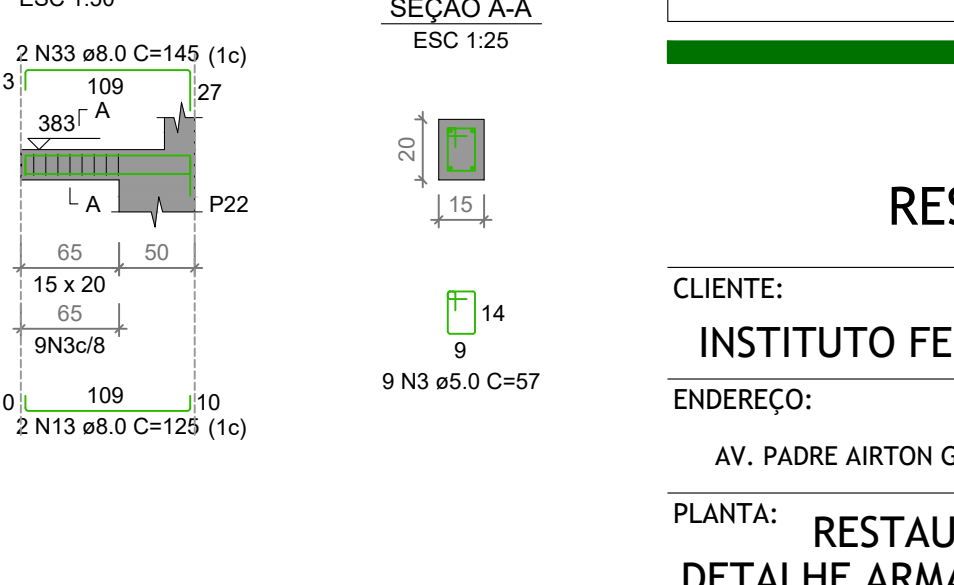
V24 (15 x 30)



V25 (15 x 30)



V26 (15 x 20)



RELAÇÃO DO AÇO

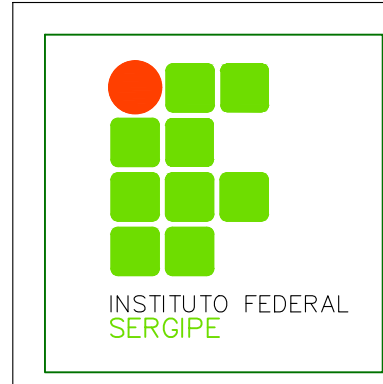
| AÇO  | N  | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|------|----|-----------|-------|-------------|--------------|
| CA50 | 1  | 5.0       | 459   | 7           | 3213         |
|      | 2  | 5.0       | 189   | 97          | 18333        |
|      | 3  | 5.0       | 26    | 57          | 1482         |
|      | 4  | 5.0       | 35    | 87          | 3005         |
| CA50 | 5  | 6.3       | 81    | 81          | 6561         |
|      | 6  | 6.3       | 76    | 76          | 5776         |
|      | 7  | 6.3       | 699   | 699         | 4885         |
|      | 8  | 8.0       | 1022  | 951         | 2044         |
|      | 9  | 8.0       | 951   | 2853        | 2705         |
|      | 10 | 8.0       | 958   | 2874        | 2745         |
|      | 11 | 8.0       | 124   | 495         | 6138         |
|      | 12 | 8.0       | 130   | 390         | 5070         |
|      | 13 | 8.0       | 125   | 500         | 6250         |
|      | 14 | 8.0       | 131   | 393         | 5148         |
|      | 15 | 8.0       | 720   | 380         | 2736         |
|      | 16 | 8.0       | 394   | 788         | 3105         |
|      | 17 | 8.0       | 130   | 520         | 6760         |
|      | 18 | 8.0       | 159   | 624         | 9936         |
|      | 19 | 8.0       | 320   | 640         | 20480        |
|      | 20 | 8.0       | 346   | 692         | 23927        |
|      | 21 | 8.0       | 333   | 705         | 23476        |
|      | 22 | 8.0       | 187   | 187         | 35000        |
|      | 23 | 8.0       | 170   | 170         | 28900        |
|      | 24 | 8.0       | 279   | 756         | 21074        |
|      | 25 | 8.0       | 685   | 1685        | 11562        |
|      | 26 | 8.0       | 471   | 471         | 22117        |
|      | 27 | 8.0       | 854   | 1706        | 14554        |
|      | 28 | 8.0       | 916   | 1329        | 12180        |
|      | 29 | 8.0       | 139   | 279         | 38661        |
|      | 30 | 8.0       | 165   | 330         | 54150        |
|      | 31 | 8.0       | 150   | 300         | 45000        |
|      | 32 | 8.0       | 910   | 455         | 41305        |
|      | 33 | 8.0       | 145   | 290         | 41950        |
|      | 34 | 10.0      | 991   | 991         | 98109        |
|      | 35 | 10.0      | 1053  | 2106        | 221859       |
|      | 36 | 10.0      | 917   | 2751        | 253267       |
|      | 37 | 10.0      | 610   | 610         | 37210        |
|      | 38 | 10.0      | 617   | 1234        | 76038        |
|      | 39 | 10.0      | 697   | 697         | 48561        |
|      | 40 | 10.0      | 697   | 697         | 48561        |
|      | 41 | 10.0      | 704   | 2112        | 148528       |
|      | 42 | 10.0      | 622   | 1886        | 118332       |
|      | 43 | 10.0      | 243   | 243         | 59049        |
|      | 44 | 10.0      | 655   | 655         | 42825        |
|      | 45 | 10.0      | 650   | 1324        | 85840        |
|      | 46 | 10.0      | 712   | 712         | 50688        |
|      | 47 | 10.0      | 719   | 2157        | 155403       |
|      | 48 | 10.0      | 224   | 448         | 10048        |
|      | 49 | 10.0      | 705   | 1530        | 107625       |
|      | 50 | 10.0      | 244   | 244         | 59536        |
|      | 51 | 10.0      | 770   | 770         | 59230        |
|      | 52 | 10.0      | 623   | 1889        | 118332       |
|      | 53 | 10.0      | 636   | 1906        | 122016       |
|      | 54 | 10.0      | 621   | 1863        | 117618       |
|      | 55 | 10.0      | 517   | 1551        | 79157        |
|      | 56 | 10.0      | 618   | 618         | 38088        |
|      | 57 | 10.0      | 888   | 1776        | 15744        |
|      | 58 | 10.0      | 320   | 320         | 10240        |
|      | 59 | 10.0      | 941   | 1882        | 17558        |
|      | 60 | 10.0      | 494   | 1482        | 73128        |
|      | 61 | 10.0      | 456   | 1366        | 62256        |
|      | 62 | 10.0      | 430   | 860         | 37020        |
|      | 63 | 10.0      | 487   | 487         | 23719        |
|      | 64 | 10.0      | 481   | 1443        | 69288        |
|      | 65 | 10.0      | 208   | 416         | 8672         |
|      | 66 | 10.0      | 523   | 1046        | 54908        |
|      | 67 | 12.5      | 757   | 757         | 57125        |
|      | 68 | 12.5      | 764   | 1528        | 116000       |
|      | 69 | 12.5      | 817   | 817         | 65769        |
|      | 70 | 12.5      | 1065  | 2130        | 228375       |
|      | 71 | 12.5      | 683   | 683         | 46658        |
|      | 72 | 12.5      | 690   | 1380        | 94050        |
|      | 73 | 12.5      | 235   | 235         | 55063        |
|      | 74 | 12.5      | 658   | 658         | 42049        |
|      | 75 | 12.5      | 666   | 1332        | 88008        |
|      | 76 | 12.5      | 498   | 996         | 49800        |
|      | 77 | 12.5      | 528   | 528         | 27456        |
|      | 78 | 12.5      | 535   | 1070        | 57275        |

RESUMO DO AÇO

| AÇO             | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
|-----------------|-----------|-------------|-----------------|
| CA50            | 6.3       | 1.6         | 0.4             |
|                 | 8.0       | 236.1       | 102.5           |
|                 | 10.0      | 423.3       | 287.1           |
|                 | 12.5      | 121.1       | 128.4           |
|                 | 5.0       | 583.9       | 99              |
| PESO TOTAL (kg) |           |             |                 |
| CA50            | 518.3     |             |                 |
| CA60            | 99        |             |                 |

Volume de concreto (C-30) = 5.74 m³  
Área de forma = 71.77 m²

| Nº | ALTERAÇÃO/REVISÕES | REVISADO POR | DATA |
|----|--------------------|--------------|------|
|    |                    |              |      |
|    |                    |              |      |
|    |                    |              |      |



AUTOR DO PROJETO:  
Engº. Fredrico Damasceno Pinheiro  
CREA 270082778-3

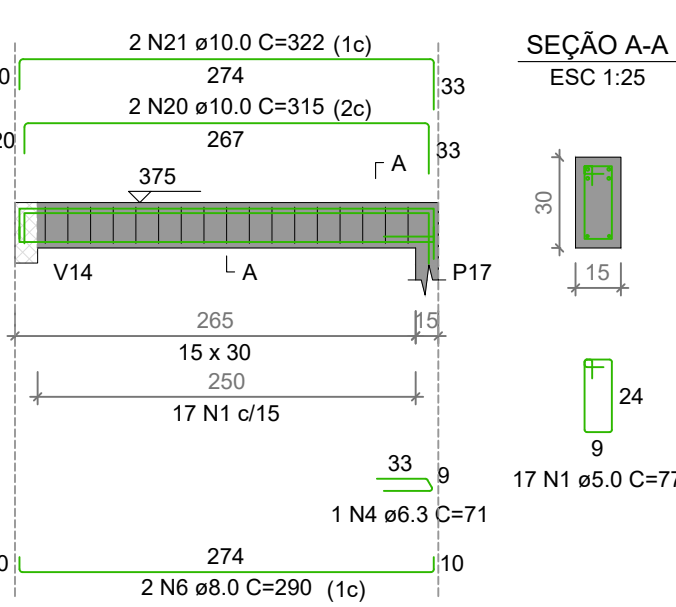


ENDEREÇO:  
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dipop@ifs.edu.br  
TEL: (79)3711-3139

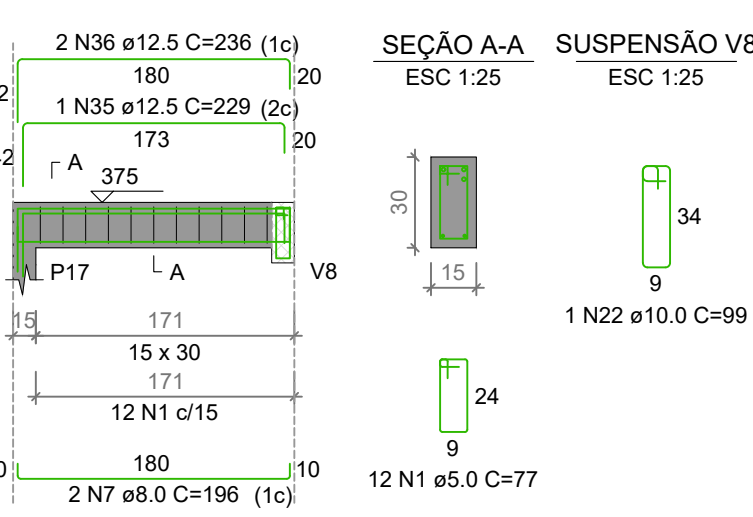
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| CLIENTE:                                                             |     |     |     |      |        |              |         |  |  | INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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| AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA /SE |     |     |     |      |        |              |         |  |  | DATA: ABRIL/2026                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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| PLANTA:                                                              |     |     |     |      |        |              |         |  |  | PRANCHA:                                             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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| RESTAURANTE                                                          |     |     |     |      |        |              |         |  |  | 11/17                                                |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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| DETALHE ARMAÇÃO DAS VIGAS 1 - 2                                      |     |     |     |      |        |              |         |  |  |                                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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| CAMPUS                                                               | ORÇ | ESP | EST | PAGE | SERIAL | QUANTITATIVO | REVISÃO |  |  |                                                      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  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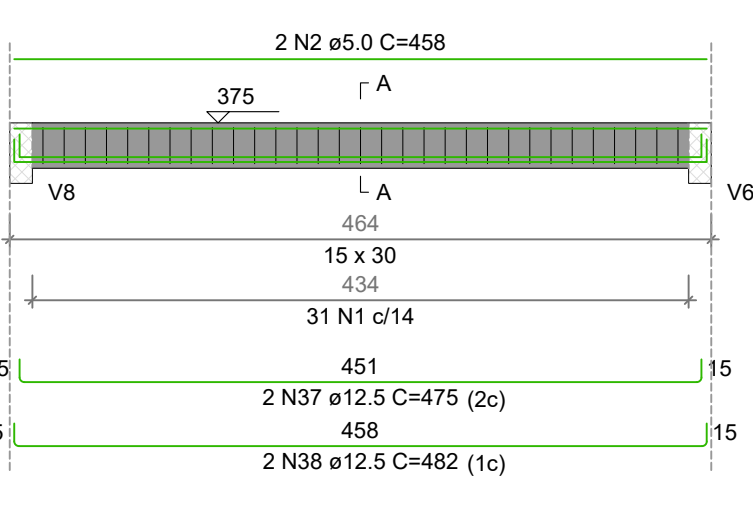
V27 (15 x 30)



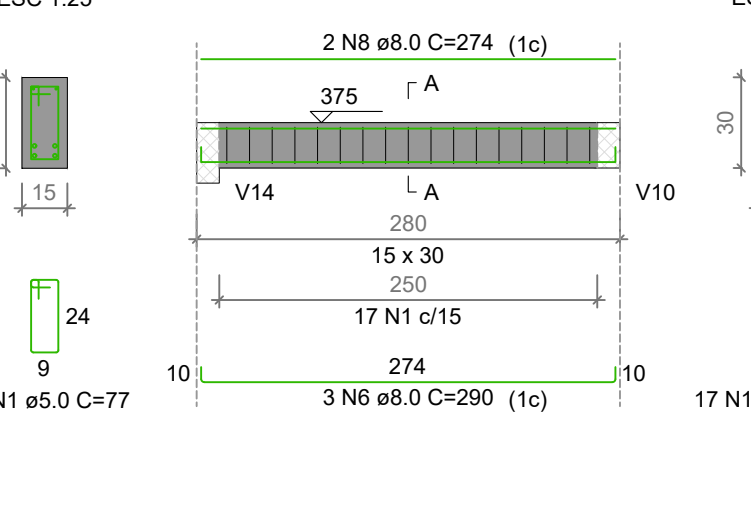
V28 (15 x 30)



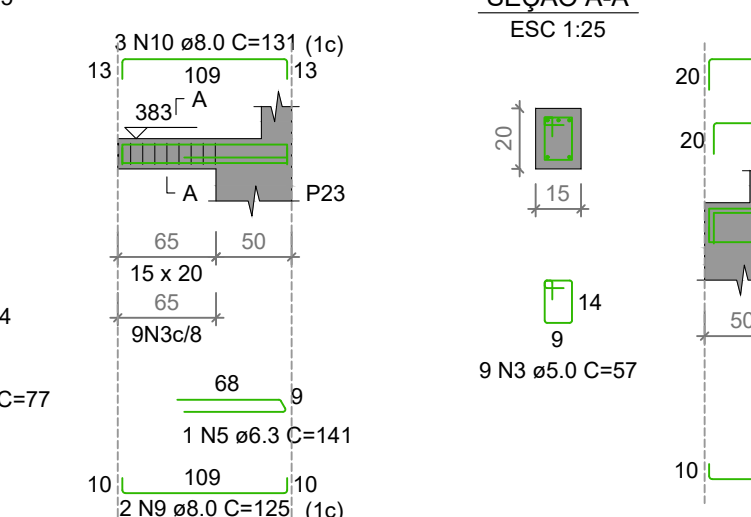
V29 (15 x 30)



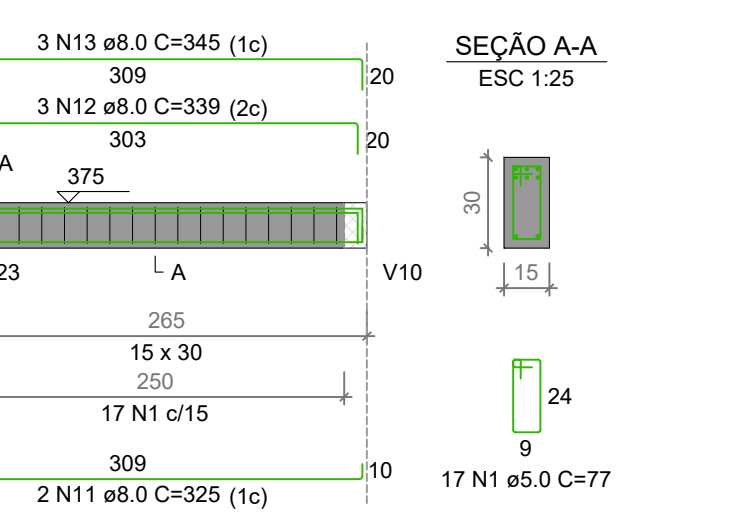
V30 (15 x 30)



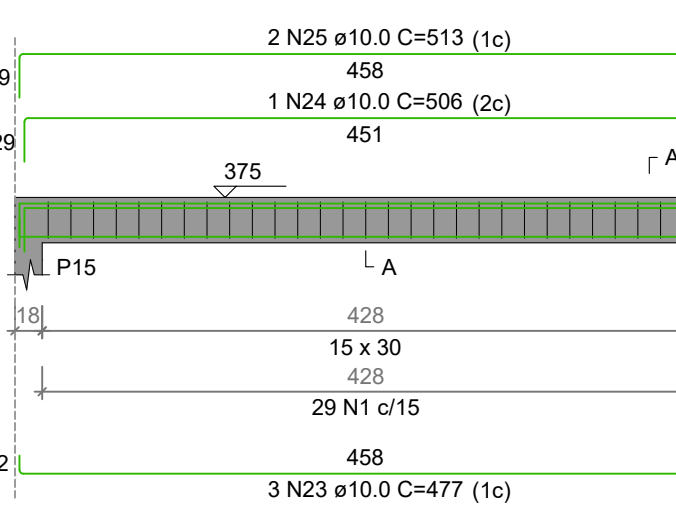
V31 (15 x 20)



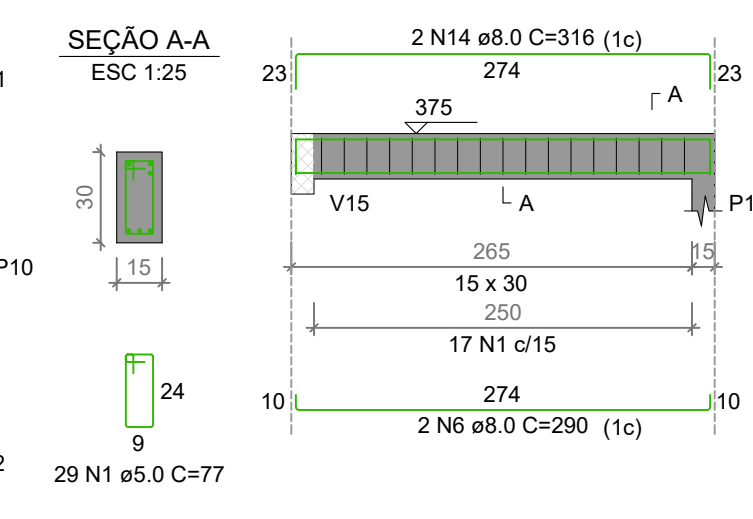
V32 (15 x 30)



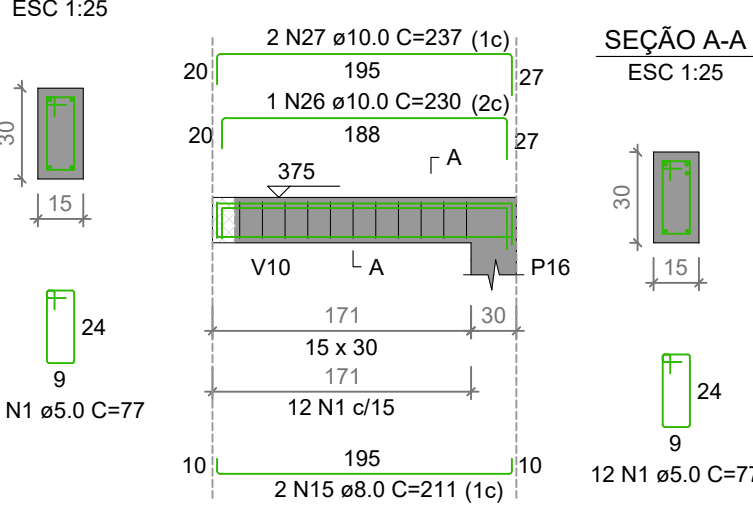
V33 (15 x 30)



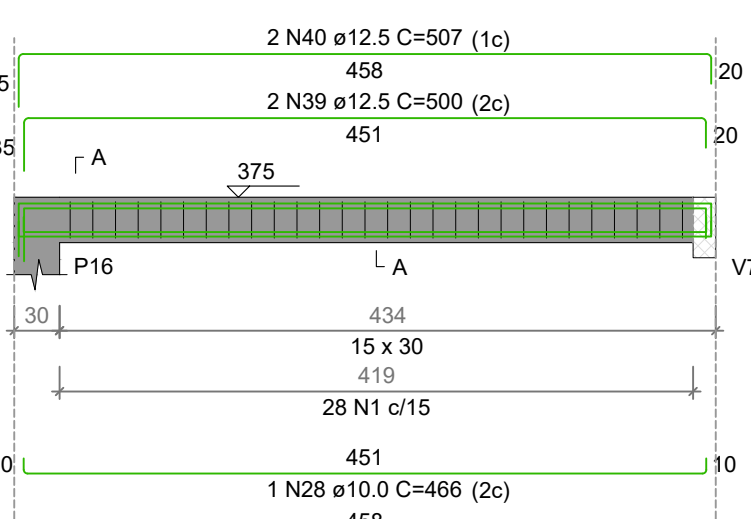
V34 (15 x 30)



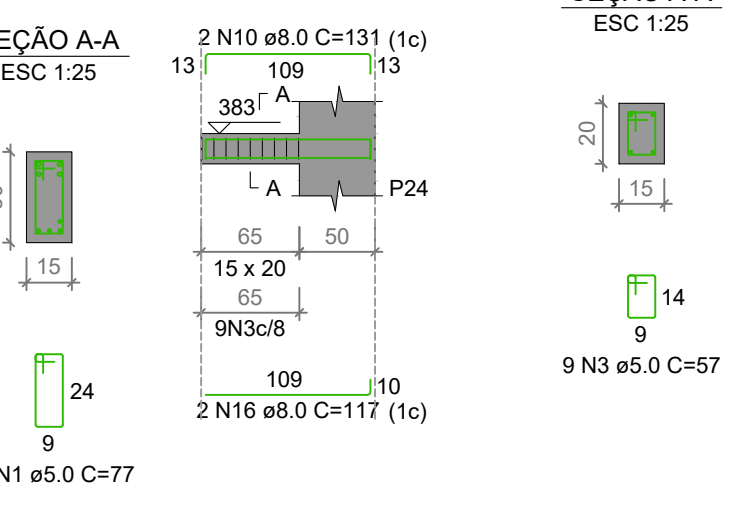
V35 (15 x 30)



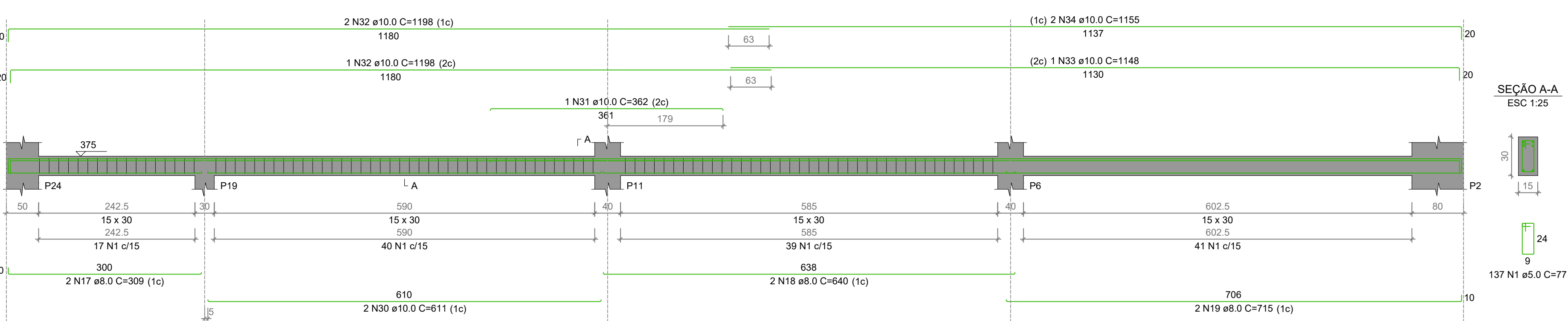
V36 (15 x 30)



V37 (15 x 20)



V38 (15 x 30)



RELAÇÃO DO AÇO

| AÇO | N  | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
|-----|----|-----------|-------|-------------|--------------|
| V27 | 1  | 5.0       | 317   | 77          | 24409        |
| V30 | 2  | 5.0       | 2     | 458         | 916          |
| V33 | 3  | 5.0       | 16    | 57          | 1026         |
| V36 | 4  | 6.3       | 1     | 71          | 71           |
|     | 5  | 6.3       | 1     | 141         | 141          |
|     | 6  | 8.0       | 1     | 236         | 236          |
|     | 7  | 8.0       | 1     | 196         | 392          |
|     | 8  | 8.0       | 1     | 274         | 548          |
|     | 9  | 8.0       | 1     | 125         | 250          |
|     | 10 | 8.0       | 1     | 131         | 658          |
|     | 11 | 8.0       | 1     | 325         | 650          |
|     | 12 | 8.0       | 1     | 339         | 1017         |
|     | 13 | 8.0       | 1     | 345         | 1035         |
|     | 14 | 8.0       | 1     | 316         | 632          |
|     | 15 | 8.0       | 1     | 211         | 422          |
|     | 16 | 8.0       | 1     | 117         | 234          |
|     | 17 | 8.0       | 1     | 309         | 618          |
|     | 18 | 8.0       | 1     | 640         | 1280         |
|     | 19 | 8.0       | 1     | 715         | 1430         |
|     | 20 | 10.0      | 1     | 915         | 630          |
|     | 21 | 10.0      | 1     | 322         | 644          |
|     | 22 | 10.0      | 1     | 99          | 99           |
|     | 23 | 10.0      | 3     | 477         | 1431         |
|     | 24 | 10.0      | 1     | 506         | 506          |
|     | 25 | 10.0      | 1     | 513         | 1026         |
|     | 26 | 10.0      | 1     | 230         | 230          |
|     | 27 | 10.0      | 1     | 237         | 474          |
|     | 28 | 10.0      | 1     | 466         | 466          |
|     | 29 | 10.0      | 1     | 473         | 1419         |
|     | 30 | 10.0      | 1     | 222         | 222          |
|     | 31 | 10.0      | 1     | 362         | 362          |
|     | 32 | 10.0      | 1     | 1198        | 3594         |
|     | 33 | 10.0      | 1     | 1148        | 1148         |
|     | 34 | 10.0      | 1     | 1155        | 2310         |
|     | 35 | 12.5      | 1     | 229         | 229          |
|     | 36 | 12.5      | 1     | 236         | 472          |
|     | 37 | 12.5      | 1     | 475         | 950          |
|     | 38 | 12.5      | 1     | 482         | 964          |
|     | 39 | 12.5      | 1     | 500         | 1000         |
|     | 40 | 12.5      | 1     | 507         | 1014         |

RESUMO DO AÇO

| AÇO             | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
|-----------------|-----------|-------------|-----------------|
| CA50            | 6.3       | 2.1         | 0.6             |
|                 | 8.0       | 111.9       | 48.6            |
|                 | 10.0      | 155.6       | 105.5           |
|                 | 12.5      | 46.3        | 49.1            |
|                 | 5.0       | 263.5       | 44.7            |
| PESO TOTAL (kg) |           |             |                 |
| CA50            |           | 203.7       |                 |
| CA60            |           | 44.7        |                 |

Volume de concreto (C-30) = 2.15 m³  
Área de forma = 27.82 m²

| Nº | ALTERAÇÃO/REVISÕES | REVISADO POR | DATA |
|----|--------------------|--------------|------|
|    |                    |              |      |
|    |                    |              |      |
|    |                    |              |      |



INSTITUTO FEDERAL  
SERGIPE

AUTOR DO PROJETO:

Engº. Fredrico Damasceno Pinheiro  
CREA 270082778-3



AD  
ENGENHARIA  
adengenaria.eng.br

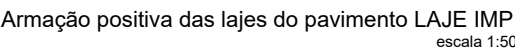
ENDEREÇO:

Rua Dom José Thomaz, 194 - Bairro São José - Aracaju/SE  
dipop@ifs.edu.br

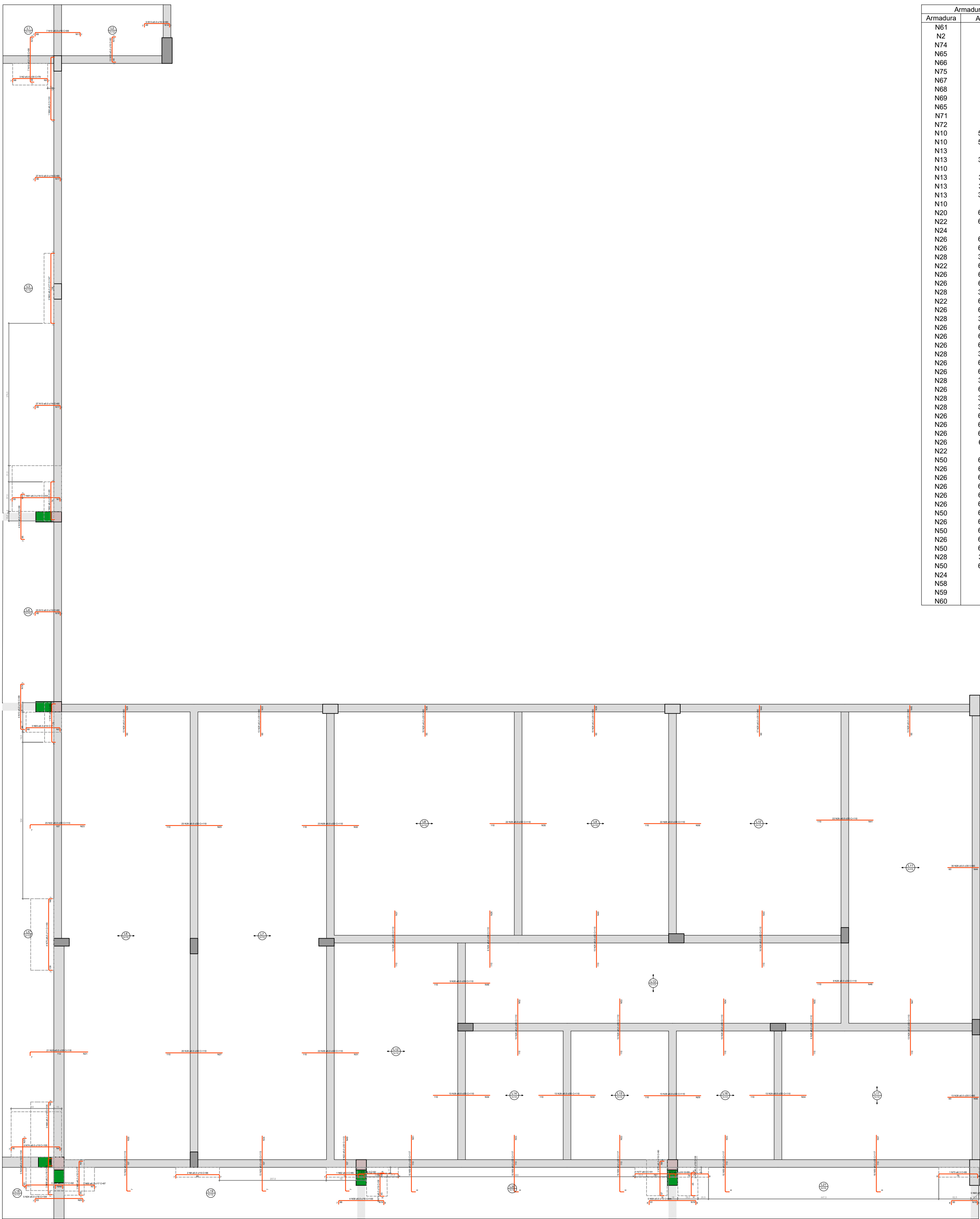
TEL: (79)3711-3139

PROJETO ESTRUTURAL  
RESTAURANTE CAMPUS ITABAIANA - SE

|                                 |                                                                      |                |            |
|---------------------------------|----------------------------------------------------------------------|----------------|------------|
| CLIENTE:                        | INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE                 | ESCALA:        | 1:100      |
| ENDEREÇO:                       | AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA /SE | DATA:          | ABRIL/2026 |
| PLANTA:                         | RESTAURANTE                                                          | PRANCHA:       | 12/17      |
| DETALHE ARMAÇÃO DAS VIGAS 2 - 2 |                                                                      |                |            |
| CADENHO:                        | OPERA:                                                               | ESPECIALIDADE: | FASE:      |
| 01                              | 02                                                                   | 03             | 04         |

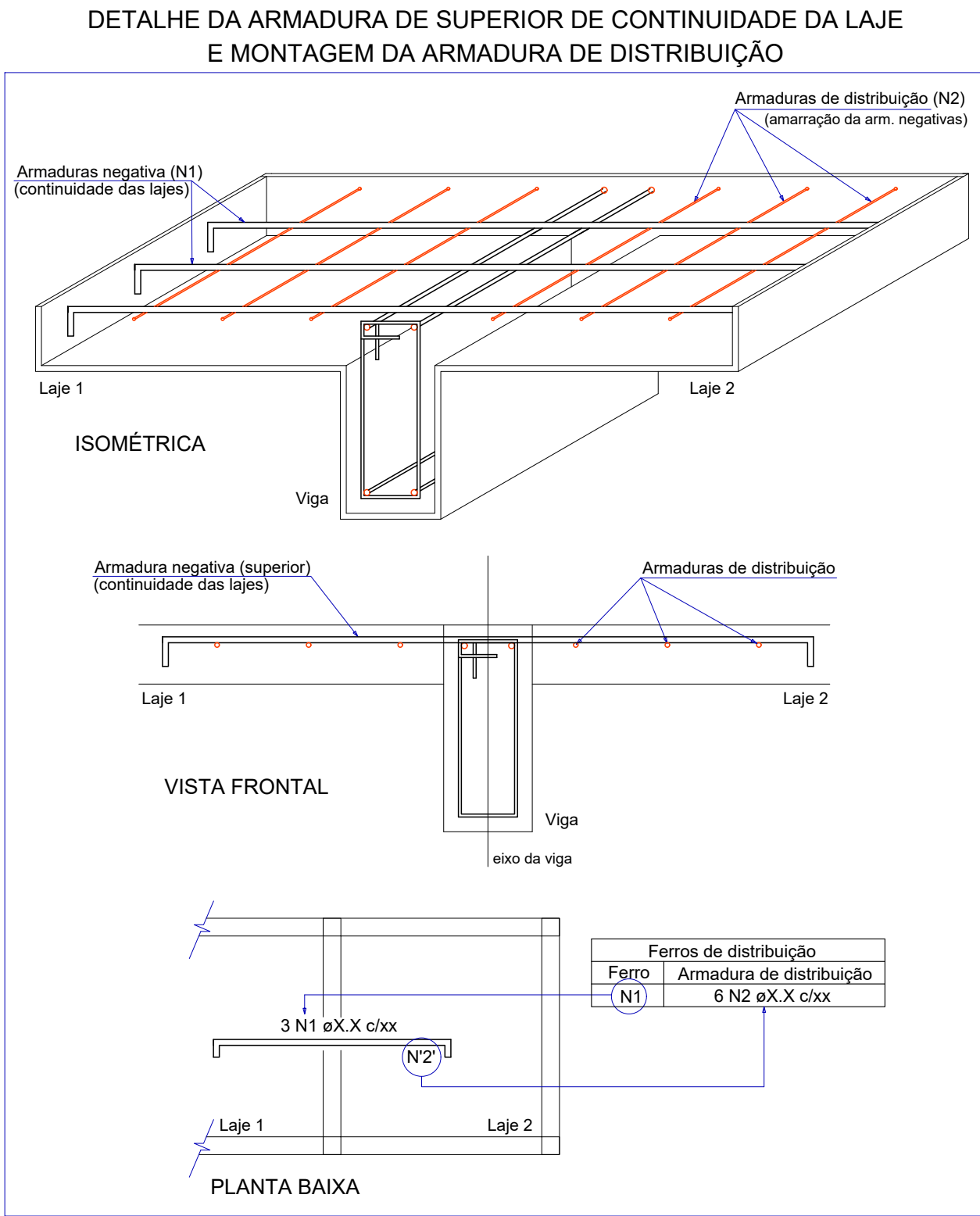


CAMPUS: ITA RES CÉREA: EST PE SÉRIAL: 013 QUANTITATIVO: 017 REVISÃO: 000



Armação negativa das lajes do pavimento LAJE IMP. Escala 1:20

| Armaduras de distribuição |                          |
|---------------------------|--------------------------|
| Armadura                  | Armadura de distribuição |
| N61                       | 5 N1 e5.0 c/20 C=89      |
| N2                        | 4 N3 e5.0 c/20 C=42      |
| N74                       | 5 N4 e5.0 c/20 C=88      |
| N65                       | 4 N5 e5.0 c/20 C=39      |
| N66                       | 7 N6 e5.0 c/20 C=45      |
| N75                       | 7 N6 e5.0 c/20 C=45      |
| N67                       | 4 N6 e5.0 c/20 C=45      |
| N68                       | 4 N6 e5.0 c/20 C=45      |
| N69                       | 4 N7 e5.0 c/20 C=46      |
| N65                       | 4 N5 e5.0 c/20 C=39      |
| N71                       | 3 N9 e5.0 c/20 C=40      |
| N72                       | 4 N9 e5.0 c/20 C=40      |
| N10                       | 5 N11 e5.0 c/20 C=108    |
| N10                       | 5 N12 e5.0 c/20 C=107    |
| N13                       | 3 N14 e5.0 c/20 C=73     |
| N13                       | 3 N15 e5.0 c/20 C=212    |
| N10                       | 5 N16 e5.0 c/20 C=70     |
| N13                       | 3 N17 e5.0 c/20 C=431    |
| N13                       | 3 N17 e5.0 c/20 C=431    |
| N13                       | 3 N18 e5.0 c/20 C=367    |
| N10                       | 5 N19 e5.0 c/20 C=71     |
| N20                       | 6 N21 e5.0 c/20 C=427    |
| N22                       | 6 N23 e5.0 c/20 C=457    |
| N24                       | 5 N25 e5.0 c/20 C=79     |
| N26                       | 6 N27 e5.0 c/20 C=403    |
| N26                       | 6 N23 e5.0 c/20 C=457    |
| N26                       | 3 N29 e5.0 c/20 C=267    |
| N22                       | 6 N30 e5.0 c/20 C=262    |
| N26                       | 6 N31 e5.0 c/20 C=430    |
| N26                       | 6 N32 e5.0 c/20 C=454    |
| N26                       | 3 N33 e5.0 c/20 C=259    |
| N22                       | 6 N34 e5.0 c/20 C=265    |
| N26                       | 6 N35 e5.0 c/20 C=449    |
| N26                       | 3 N36 e5.0 c/20 C=362    |
| N26                       | 6 N37 e5.0 c/20 C=260    |
| N26                       | 6 N26 e5.0 c/20 C=110    |
| N26                       | 6 N38 e5.0 c/20 C=446    |
| N28                       | 3 N39 e5.0 c/20 C=297    |
| N26                       | 6 N40 e5.0 c/20 C=305    |
| N26                       | 6 N41 e5.0 c/20 C=436    |
| N28                       | 3 N42 e5.0 c/20 C=332    |
| N26                       | 6 N43 e5.0 c/20 C=322    |
| N28                       | 3 N44 e5.0 c/20 C=608    |
| N28                       | 3 N45 e5.0 c/20 C=253    |
| N26                       | 6 N46 e5.0 c/20 C=173    |
| N26                       | 6 N47 e5.0 c/20 C=255    |
| N26                       | 6 N34 e5.0 c/20 C=265    |
| N26                       | 6 N48 e5.0 c/20 C=171    |
| N22                       | 6 N49 e5.0 c/20 C=59     |
| N50                       | 6 N51 e5.0 c/20 C=195    |
| N26                       | 6 N52 e5.0 c/20 C=192    |
| N26                       | 6 N53 e5.0 c/20 C=205    |
| N26                       | 6 N54 e5.0 c/20 C=199    |
| N26                       | 6 N55 e5.0 c/20 C=124    |
| N26                       | 6 N34 e5.0 c/20 C=265    |
| N50                       | 6 N53 e5.0 c/20 C=205    |
| N26                       | 6 N29 e5.0 c/20 C=267    |
| N50                       | 6 N53 e5.0 c/20 C=205    |
| N26                       | 6 N34 e5.0 c/20 C=265    |
| N50                       | 6 N53 e5.0 c/20 C=205    |
| N28                       | 3 N56 e5.0 c/20 C=261    |
| N50                       | 6 N57 e5.0 c/20 C=383    |
| N24                       | 5 N25 e5.0 c/20 C=79     |
| N58                       | 5 N19 e5.0 c/20 C=71     |
| N59                       | 5 N19 e5.0 c/20 C=71     |
| N60                       | 3 N19 e5.0 c/20 C=71     |



| RELAÇÃO DO AÇO |    |           |       |             |              |
|----------------|----|-----------|-------|-------------|--------------|
| Negativos      |    |           |       |             |              |
| AÇO            | N  | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
| CA60           | 1  | 5.0       | 5     | 89          | 445          |
|                | 2  | 5.0       | 3     | 79          | 237          |
|                | 3  | 5.0       | 4     | 42          | 168          |
|                | 4  | 5.0       | 5     | 88          | 440          |
|                | 5  | 5.0       | 6     | 39          | 312          |
|                | 6  | 5.0       | 22    | 45          | 990          |
|                | 7  | 5.0       | 4     | 46          | 184          |
|                | 8  | 5.0       | 2     | 96          | 192          |
|                | 9  | 5.0       | 7     | 40          | 280          |
|                | 10 | 5.0       | 22    | 99          | 2178         |
|                | 11 | 5.0       | 5     | 106         | 540          |
|                | 12 | 5.0       | 6     | 107         | 635          |
|                | 13 | 5.0       | 96    | 60          | 5700         |
|                | 14 | 5.0       | 3     | 73          | 219          |
|                | 15 | 5.0       | 3     | 212         | 636          |
|                | 16 | 5.0       | 5     | 70          | 350          |
|                | 17 | 5.0       | 6     | 431         | 2586         |
|                | 18 | 5.0       | 3     | 367         | 1101         |
|                | 19 | 5.0       | 18    | 71          | 1278         |
|                | 20 | 5.0       | 21    | 118         | 2478         |
|                | 21 | 5.0       | 6     | 427         | 2562         |
|                | 22 | 5.0       | 52    | 113         | 5876         |
|                | 23 | 5.0       | 12    | 457         | 5484         |
|                | 24 | 5.0       | 10    | 104         | 1040         |
|                | 25 | 5.0       | 10    | 79          | 790          |
|                | 26 | 5.0       | 329   | 110         | 36190        |
|                | 27 | 5.0       | 6     | 403         | 2418         |
|                | 28 | 5.0       | 132   | 60          | 7920         |
|                | 29 | 5.0       | 9     | 267         | 2403         |
|                | 30 | 5.0       | 6     | 262         | 1572         |
|                | 31 | 5.0       | 6     | 430         | 2580         |
|                | 32 | 5.0       | 6     | 454         | 2724         |
|                | 33 | 5.0       | 3     | 268         | 777          |
|                | 34 | 5.0       | 24    | 265         | 6360         |
|                | 35 | 5.0       | 6     | 449         | 2694         |
|                | 36 | 5.0       | 3     | 362         | 1086         |
|                | 37 | 5.0       | 6     | 260         | 1560         |
|                | 38 | 5.0       | 6     | 446         | 2676         |
|                | 39 | 5.0       | 3     | 297         | 891          |
|                | 40 | 5.0       | 6     | 305         | 1830         |
|                | 41 | 5.0       | 6     | 436         | 2616         |
|                | 42 | 5.0       | 3     | 332         | 996          |
|                | 43 | 5.0       | 6     | 322         | 1932         |
|                | 44 | 5.0       | 3     | 608         | 1824         |
|                | 45 | 5.0       | 3     | 263         | 759          |
|                | 46 | 5.0       | 6     | 173         | 1038         |
|                | 47 | 5.0       | 6     | 255         | 1530         |
|                | 48 | 5.0       | 6     | 171         | 1026         |
|                | 49 | 5.0       | 6     | 59          | 354          |
|                | 50 | 5.0       | 59    | 117         | 6903         |
|                | 51 | 5.0       | 6     | 195         | 1170         |
|                | 52 | 5.0       | 6     | 192         | 1152         |
|                | 53 | 5.0       | 24    | 205         | 4920         |
|                | 54 | 5.0       | 6     | 199         | 1194         |
|                | 55 | 5.0       | 6     | 124         | 744          |
|                | 56 | 5.0       | 3     | 261         | 783          |
|                | 57 | 5.0       | 6     | 383         | 2298         |
|                | 58 | 5.0       | 4     | 100         | 400          |
|                | 59 | 5.0       | 5     | 104         | 520          |
|                | 60 | 5.0       | 5     | 63          | 315          |
| CA50           | 61 | 6.3       | 7     | 104         | 728          |
|                | 62 | 6.3       | 3     | 85          | 255          |
|                | 63 | 6.3       | 2     | 147         | 294          |
|                | 64 | 6.3       | 1     | 133         | 133          |
|                | 65 | 6.3       | 6     | 77          | 462          |
|                | 66 | 6.3       | 3     | 136         | 405          |
|                | 67 | 6.3       | 3     | 82          | 246          |
|                | 68 | 6.3       | 3     | 81          | 243          |
|                | 69 | 6.3       | 3     | 87          | 261          |
|                | 70 | 6.3       | 3     | 91          | 273          |
|                | 71 | 6.3       | 5     | 58          | 290          |
|                | 72 | 6.3       | 3     | 80          | 240          |
|                | 73 | 6.3       | 3     | 89          | 267          |
|                | 74 | 8.0       | 5     | 105         | 525          |
|                | 75 | 8.0       | 4     | 148         | 592          |
|                | 76 | 8.0       | 1     | 85          | 85           |
|                | 77 | 8.0       | 1     | 91          | 91           |

| RESUMO DO AÇO   |           |             |                 |
|-----------------|-----------|-------------|-----------------|
| AÇO             | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
| CA50            | 6.3       | 39.1        | 10.5            |
| CA60            | 8.0       | 13          | 5.6             |
|                 | 5.0       | 1427.6      | 242             |
| PESO TOTAL (kg) |           |             |                 |
| CA50            | 16.2      |             |                 |
| CA60            | 242       |             |                 |

Volume de concreto (C-30) = 0.00 m³  
Área de forma = 0.00 m²

INSTITUTO FEDERAL  
SERGIPE

AUTOR DO PROJETO:

Engº. Fredrico Damasceno Pinheiro  
CREA 270082778-3

ENDEREÇO:

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REVISADO POR

DATA

PROJETO ESTRUTURAL

RESTAURANTE CAMPUS ITABAIANA - SE

CLIENTE:

INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE

ENDEREÇO:

AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA / SE

PLANTA:

RESTAURANTE

DETALHE ARMAÇÃO DAS VIGOTAS PRÉ-MOLDADAS

ESCALA:

1:100

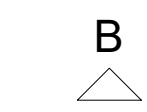
DATA:

ABRIL/2026

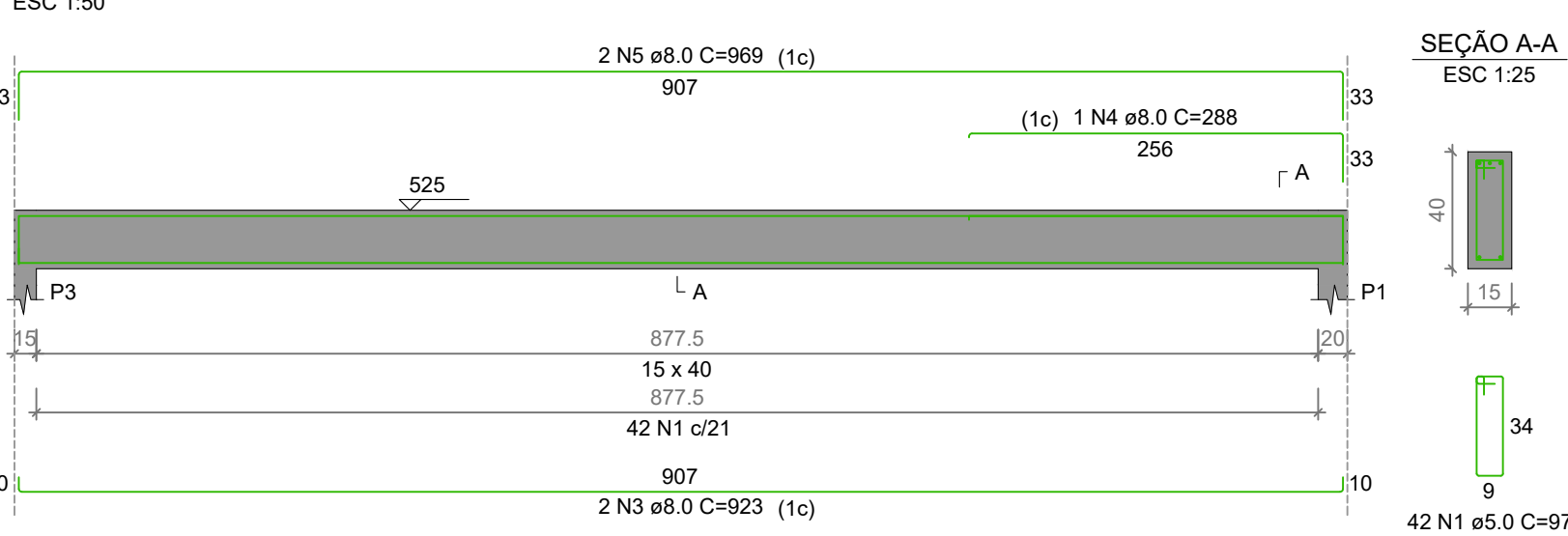
PRANCHA:

14/17

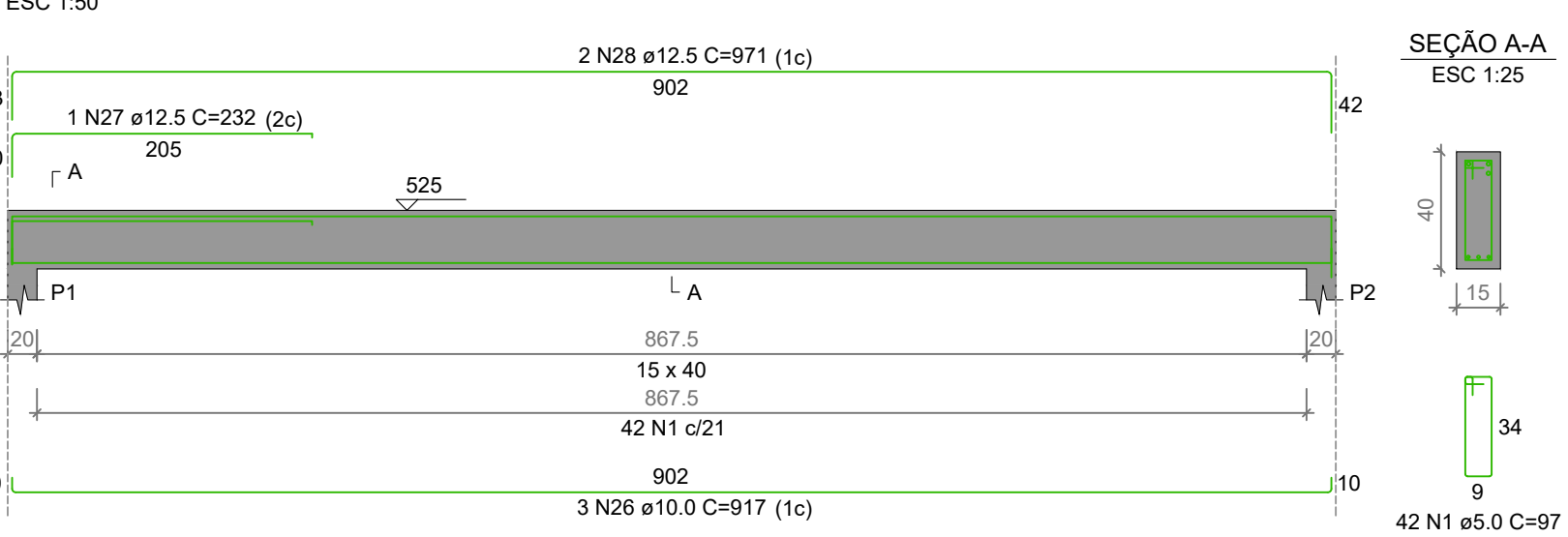




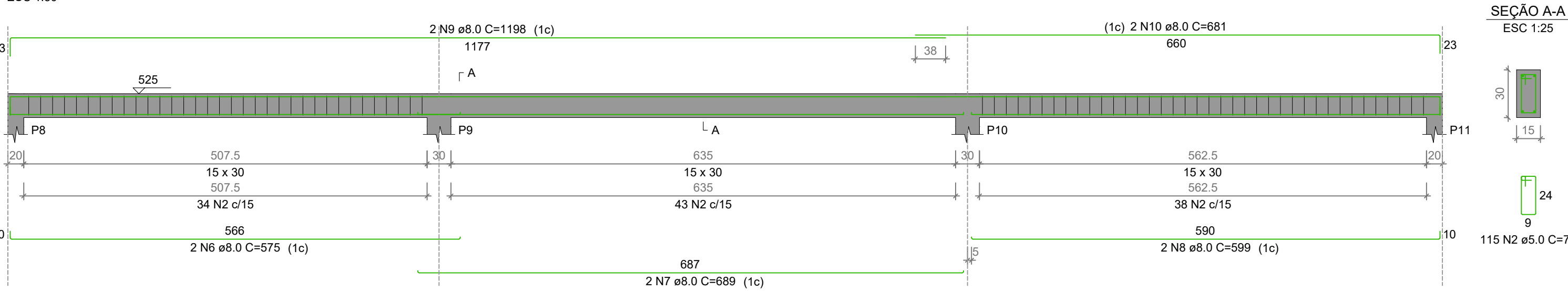
V1 (15 x 40)



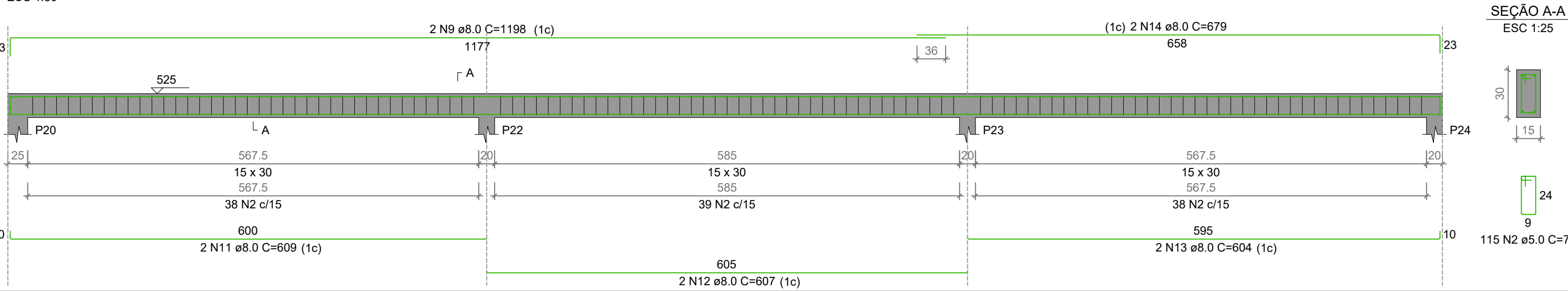
V2 (15 x 40)



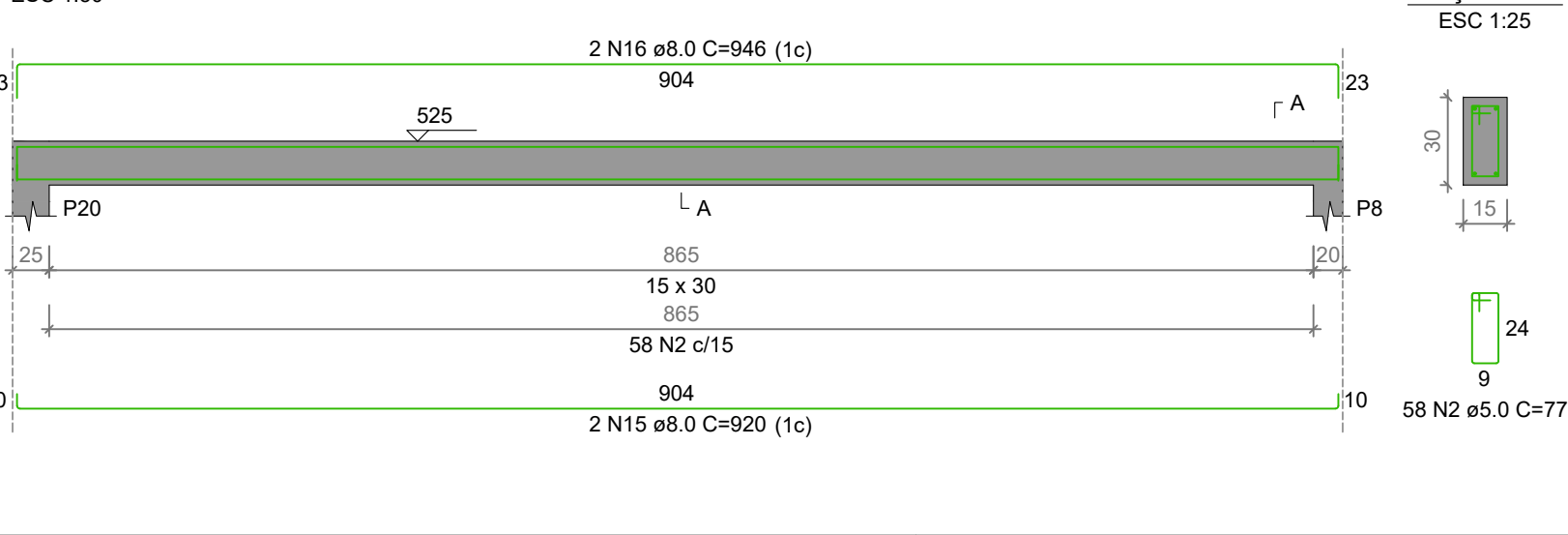
V3 (15 x 30)



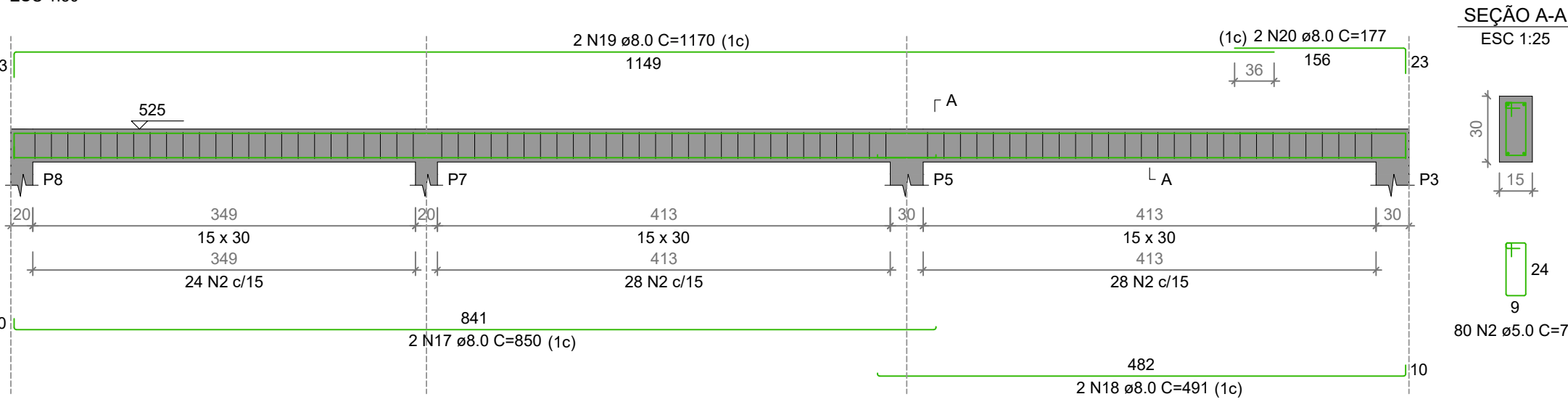
V4 (15 x 30)



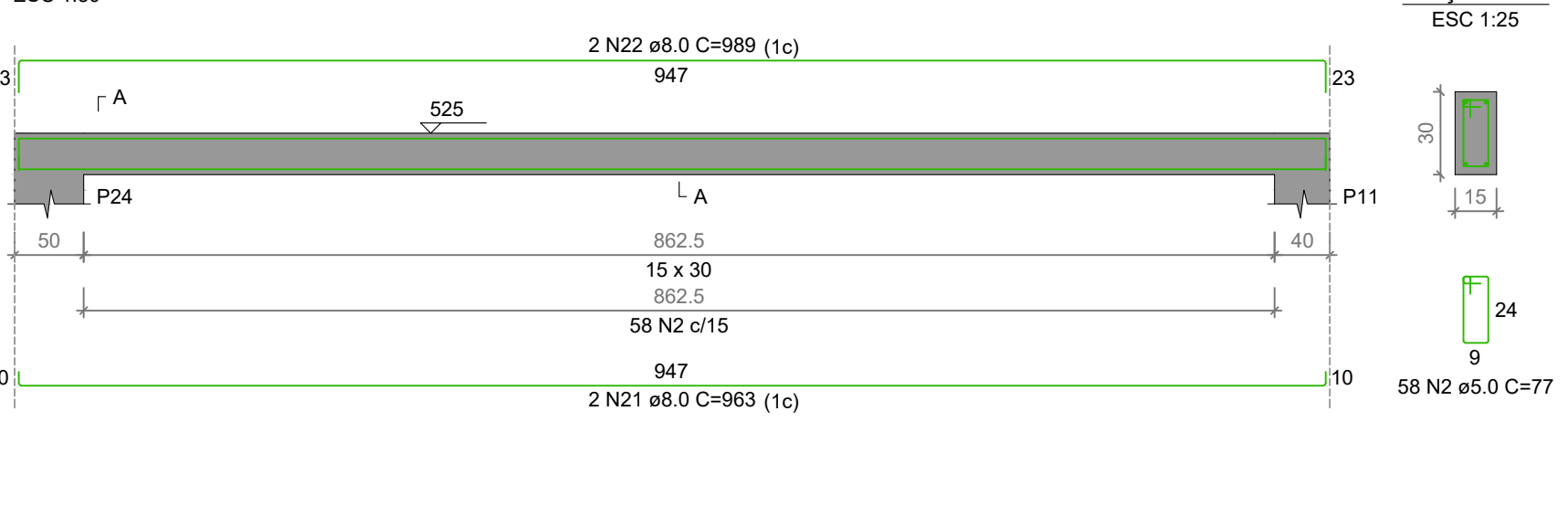
V5 (15 x 30)



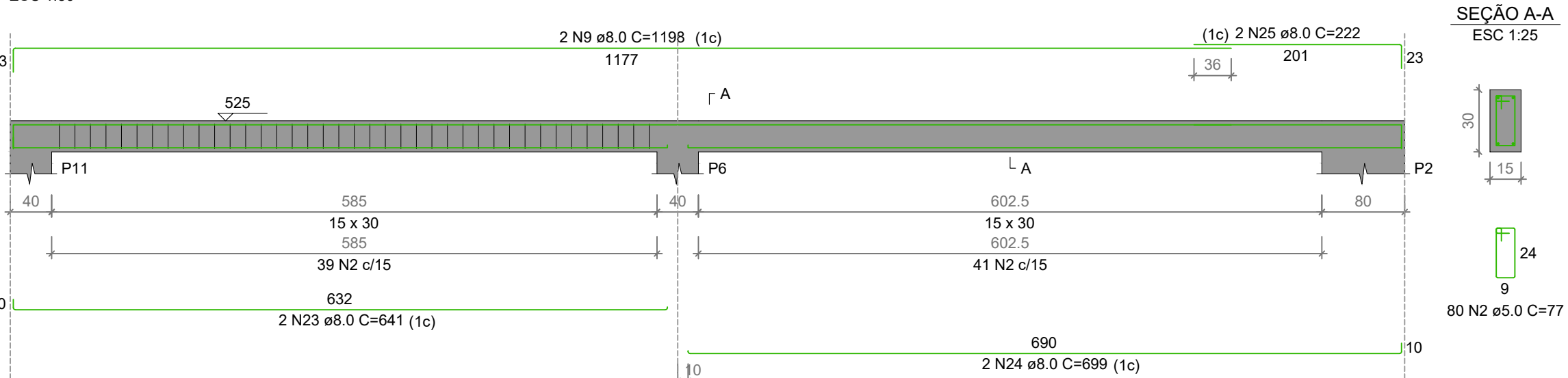
V6 (15 x 30)



V7 (15 x 30)



V8 (15 x 30)

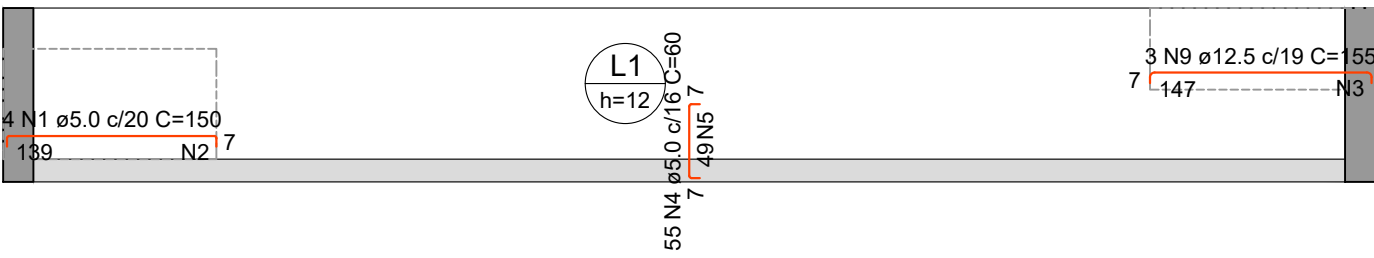


| RELAÇÃO DO AÇO |    |           |       |             |              |
|----------------|----|-----------|-------|-------------|--------------|
| AÇO            | N  | DIAM (mm) | QUANT | C.UNIT (cm) | C.TOTAL (cm) |
| CA50           | 1  | 5.0       | 84    | 27          | 3148         |
| CA50           | 2  | 5.0       | 506   | 77          | 38962        |
| CA50           | 3  | 8.0       | 2     | 923         | 1846         |
| CA50           | 4  | 8.0       | 1     | 288         | 288          |
| CA50           | 5  | 8.0       | 2     | 969         | 1938         |
| CA50           | 6  | 8.0       | 2     | 575         | 1150         |
| CA50           | 7  | 8.0       | 2     | 689         | 1378         |
| CA50           | 8  | 8.0       | 2     | 599         | 1198         |
| CA50           | 9  | 8.0       | 2     | 1198        | 2396         |
| CA50           | 10 | 8.0       | 2     | 681         | 1362         |
| CA50           | 11 | 8.0       | 2     | 609         | 1218         |
| CA50           | 12 | 8.0       | 2     | 607         | 1214         |
| CA50           | 13 | 8.0       | 2     | 604         | 1208         |
| CA50           | 14 | 8.0       | 2     | 679         | 1358         |
| CA50           | 15 | 8.0       | 2     | 920         | 1840         |
| CA50           | 16 | 8.0       | 2     | 946         | 1892         |
| CA50           | 17 | 8.0       | 2     | 850         | 1700         |
| CA50           | 18 | 8.0       | 2     | 491         | 982          |
| CA50           | 19 | 8.0       | 2     | 1170        | 2340         |
| CA50           | 20 | 8.0       | 2     | 177         | 354          |
| CA50           | 21 | 8.0       | 2     | 983         | 1966         |
| CA50           | 22 | 8.0       | 2     | 989         | 1978         |
| CA50           | 23 | 8.0       | 2     | 641         | 1282         |
| CA50           | 24 | 8.0       | 2     | 699         | 1398         |
| CA50           | 25 | 8.0       | 2     | 222         | 444          |
| CA50           | 26 | 10.0      | 2     | 917         | 1834         |
| CA50           | 27 | 12.5      | 2     | 332         | 664          |
| CA50           | 28 | 12.5      | 2     | 971         | 1942         |

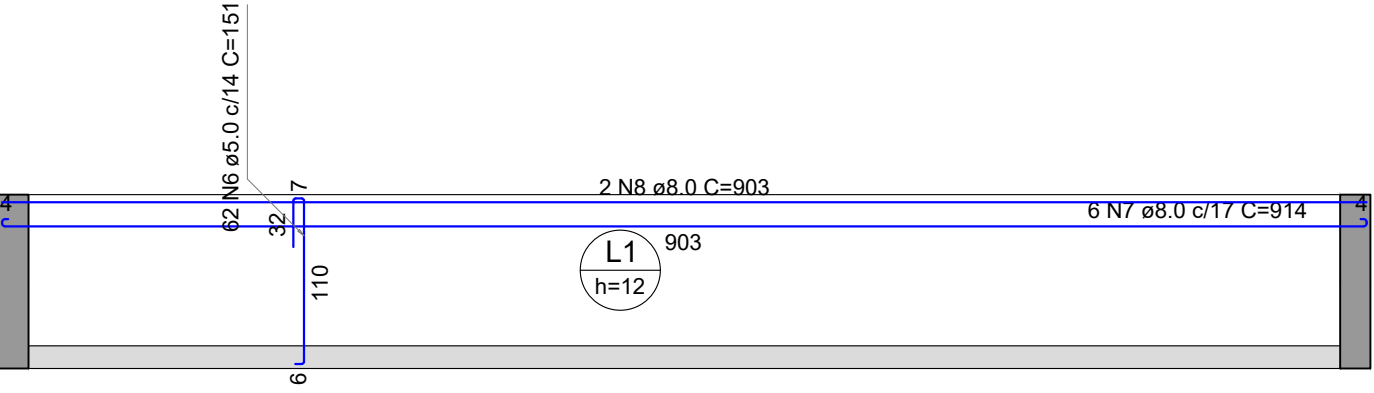
| RESUMO DO AÇO   |           |             |                 |
|-----------------|-----------|-------------|-----------------|
| AÇO             | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
| CA50            | 8.0       | 374.8       | 162.7           |
| CA50            | 10.0      | 27.5        | 18.7            |
| CA50            | 12.5      | 21.7        | 23              |
| CA50            | 5.0       | 471.1       | 78.9            |
| PESO TOTAL (kg) |           |             |                 |
| CA50            | 204.4     |             |                 |
| CA60            | 79.9      |             |                 |

Volume de concreto (C-30) = 4.43 m³  
Área de forma = 72.94 m²

Armação negativa das lajes do pavimento PLATIBANDA



Armação positiva das lajes do pavimento PLATIBANDA



| Armaduras de distribuição |                          |
|---------------------------|--------------------------|
| Armadura                  | Armadura de distribuição |
| N1                        | 7 N2 ø5.0 c/20 C=73      |
| N9                        | 10 N3 ø5.0 c/15 C=54     |
| N4                        | 3 N5 ø5.0 c/20 C=888     |

| RELAÇÃO DO AÇO |   |           |           |             |              |
|----------------|---|-----------|-----------|-------------|--------------|
| Negativos      |   |           | Positivos |             |              |
| AÇO            | N | DIAM (mm) | QUANT     | C.UNIT (cm) | C.TOTAL (cm) |
| CA60           | 1 | 5.0       | 4         | 150         | 600          |
| CA60           | 2 | 5.0       | 7         | 73          | 511          |
| CA60           | 3 | 5.0       | 10        | 54          | 540          |
| CA60           | 4 | 5.0       | 55        | 69          | 3300         |
| CA60           | 5 | 5.0       | 3         | 888         | 2664         |
| CA50           | 6 | 5.0       | 62        | 151         | 9362         |
| CA50           | 7 | 8.0       | 6         | 914         | 5484         |
| CA50           | 8 | 5.0       | 2         | 903         | 1806         |
| CA50           | 9 | 12.5      | 3         | 155         | 465          |

| RESUMO DO AÇO   |           |             |                 |
|-----------------|-----------|-------------|-----------------|
| AÇO             | DIAM (mm) | C.TOTAL (m) | PESO + 10% (kg) |
| CA50            | 8.0       | 72.9        | 31.6            |
| CA60            | 5.0       | 4.7         | 4.9             |
| CA60            | 5.0       | 169.8       | 28.8            |
| PESO TOTAL (kg) |           |             |                 |
| CA50            | 36.6      |             |                 |
| CA60            | 29.8      |             |                 |

Volume de concreto (C-30) = 1.04 m³  
Área de forma = 9.72 m²

| Nº | ALTERAÇÃO/REVISÕES | REVISADO POR | DATA |
|----|--------------------|--------------|------|
|    |                    |              |      |
|    |                    |              |      |
|    |                    |              |      |



INSTITUTO FEDERAL  
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AUTOR DO PROJETO:

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PROJETO ESTRUTURAL  
RESTAURANTE CAMPUS ITABAIANA - SE

CLIENTE:  
INSTITUTO FEDERAL DE SERGIPE - CAMPUS ITABAIANA - SE

ENDEREÇO:  
AV. PADRE AIRTON GONÇALVES LIMA 1140 - SÃO CRISTÓVÃO - ITABAIANA /SE

ESCALA:  
1:100

PLANTA:  
RESTAURANTE  
DETALHE ARMAÇÃO VIGAS PLATIBANDA

DATA:  
ABRIL/2026

PRANCHA:  
17/17