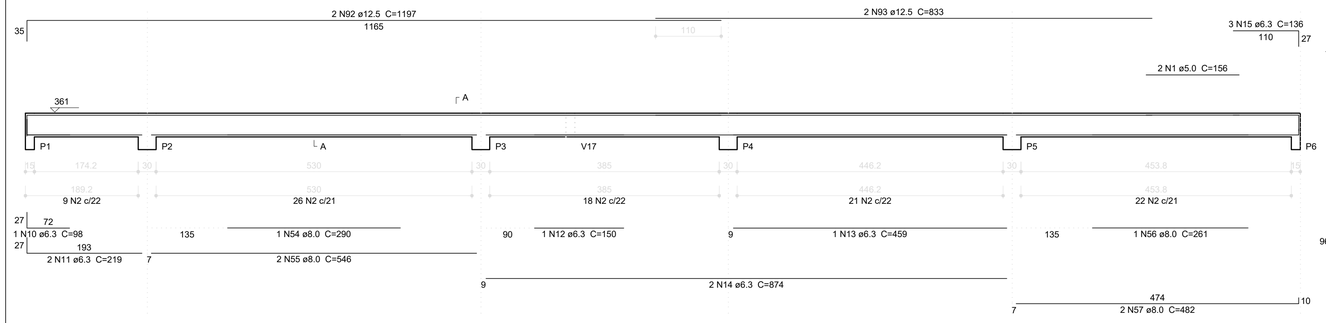
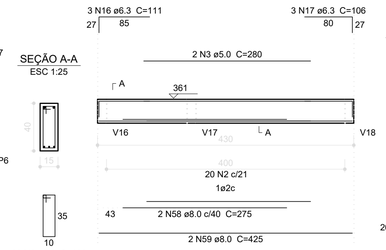
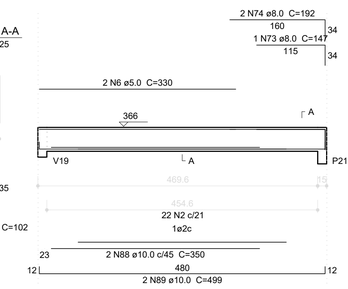
## V1
ESC 1:50



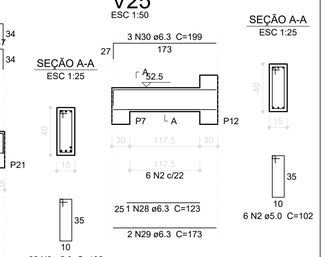

## V2
ESC 1:50




## V5
ESC 1:50



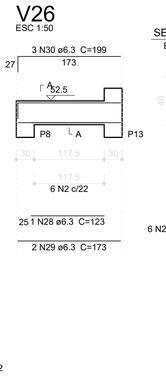

## V25
ESC 1:50



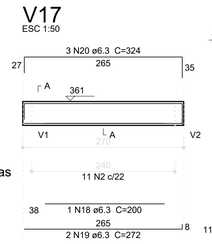

## V3
ESC 1:50



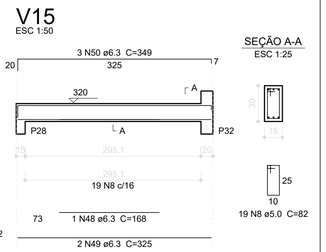

## V26
ESC 1:50




## V17
ESC 1:50




## V15
ESC 1:50




### Relação do aço das Vigas

| | | |
|---|---|---|
| V1 | V2 | V3 |
| V4 | V5 | V6 |
| V7 | V8 | V9 |
| V10 | V11 | V12 |
| V14 | V15 | V17 |
| V25 | V26 | V27 |

| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| CA60 | 1 | 5.0 | 2 | 156 | 312 |
| | 2 | 5.0 | 338 | 102 | 34476 |
| | 3 | 5.0 | 2 | 280 | 560 |
| | 4 | 5.0 | 76 | 122 | 9272 |
| | 5 | 5.0 | 2 | 300 | 600 |
| | 6 | 5.0 | 2 | 330 | 660 |
| | 7 | 5.0 | 2 | 335 | 670 |
| | 8 | 5.0 | 96 | 82 | 7872 |
| | 9 | 5.0 | 2 | 358 | 716 |
| CA50 | 10 | 6.3 | 1 | 98 | 98 |
| | 11 | 6.3 | 2 | 219 | 438 |
| | 12 | 6.3 | 1 | 150 | 150 |
| | 13 | 6.3 | 1 | 459 | 459 |
| | 14 | 6.3 | 2 | 874 | 1748 |
| | 15 | 6.3 | 3 | 136 | 408 |
| | 16 | 6.3 | 3 | 111 | 333 |
| | 17 | 6.3 | 3 | 106 | 318 |
| | 18 | 6.3 | 1 | 200 | 200 |
| | 19 | 6.3 | 2 | 272 | 544 |
| | 20 | 6.3 | 3 | 324 | 972 |
| | 21 | 6.3 | 6 | CORR | 1104 |
| | 22 | 6.3 | 6 | CORR | 1290 |
| | 23 | 6.3 | 6 | CORR | 2388 |
| | 24 | 6.3 | 6 | CORR | 2550 |
| | 25 | 6.3 | 6 | CORR | 2058 |
| | 26 | 6.3 | 6 | CORR | 2880 |
| | 27 | 6.3 | 6 | CORR | 1050 |
| | 28 | 6.3 | 2 | 123 | 246 |
| | 29 | 6.3 | 4 | 173 | 692 |
| | 30 | 6.3 | 6 | 199 | 1194 |
| | 31 | 6.3 | 1 | 178 | 178 |
| | 32 | 6.3 | 2 | 360 | 720 |
| | 33 | 6.3 | 3 | 386 | 1158 |
| | 34 | 6.3 | 1 | 155 | 155 |
| | 35 | 6.3 | 2 | 348 | 696 |
| | 36 | 6.3 | 3 | 367 | 1101 |
| | 37 | 6.3 | 1 | 313 | 313 |
| | 38 | 6.3 | 2 | 829 | 1658 |
| | 39 | 6.3 | 1 | 129 | 129 |
| | 40 | 6.3 | 2 | 229 | 458 |
| | 41 | 6.3 | 1 | 210 | 210 |
| | 42 | 6.3 | 2 | 425 | 850 |
| | 43 | 6.3 | 2 | 119 | 238 |
| | 44 | 6.3 | 2 | 476 | 952 |
| | 45 | 6.3 | 1 | 158 | 158 |
| | 46 | 6.3 | 2 | 328 | 656 |
| | 47 | 6.3 | 3 | 334 | 1002 |
| | 48 | 6.3 | 1 | 168 | 168 |
| | 49 | 6.3 | 2 | 325 | 650 |
| | 50 | 6.3 | 3 | 349 | 1047 |
| | 51 | 6.3 | 1 | 135 | 135 |
| | 52 | 6.3 | 1 | 130 | 130 |
| | 53 | 6.3 | 5 | 706 | 3530 |
| | 54 | 8.0 | 1 | 290 | 290 |
| | 55 | 8.0 | 2 | 546 | 1092 |
| | 56 | 8.0 | 1 | 261 | 261 |
| | 57 | 8.0 | 2 | 482 | 964 |
| | 58 | 8.0 | 2 | 275 | 550 |
| | 59 | 8.0 | 2 | 425 | 850 |
| | 60 | 8.0 | 1 | 129 | 129 |
| | 61 | 8.0 | 1 | 118 | 118 |
| | 62 | 8.0 | 1 | 364 | 364 |
| | 63 | 8.0 | 1 | 215 | 215 |
| | 64 | 8.0 | 2 | 1162 | 2324 |
| | 65 | 8.0 | 3 | 334 | 1002 |
| | 66 | 8.0 | 1 | 92 | 92 |
| | 67 | 8.0 | 2 | 180 | 360 |
| | 68 | 8.0 | 1 | 845 | 845 |
| | 69 | 8.0 | 2 | 687 | 1374 |
| | 70 | 8.0 | 1 | 980 | 980 |
| | 71 | 8.0 | 2 | 1198 | 2396 |
| | 72 | 8.0 | 2 | 1055 | 2110 |
| | 73 | 8.0 | 1 | 147 | 147 |
| | 74 | 8.0 | 2 | 192 | 384 |
| | 75 | 8.0 | 1 | 146 | 146 |
| | 76 | 8.0 | 2 | 186 | 372 |
| | 77 | 8.0 | 2 | 310 | 620 |
| | 78 | 8.0 | 2 | 496 | 992 |
| | 79 | 8.0 | 2 | 546 | 1092 |
| | 80 | 8.0 | 1 | 280 | 280 |
| | 81 | 8.0 | 2 | 483 | 966 |
| | 82 | 8.0 | 2 | 195 | 390 |
| | 83 | 8.0 | 2 | 794 | 1588 |
| | 84 | 8.0 | 3 | 492 | 1476 |
| | 85 | 10.0 | 3 | 460 | 1380 |
| | 86 | 10.0 | 1 | 187 | 187 |
| | 87 | 10.0 | 2 | 227 | 454 |
| | 88 | 10.0 | 2 | 350 | 700 |
| | 89 | 10.0 | 4 | 499 | 1996 |
| | 90 | 10.0 | 2 | 355 | 710 |
| | 91 | 10.0 | 3 | 511 | 1533 |
| | 92 | 12.5 | 2 | 1197 | 2394 |
| | 93 | 12.5 | 2 | 833 | 1666 |
| | 94 | 12.5 | 2 | 350 | 700 |
| | 95 | 12.5 | 2 | 504 | 1008 |

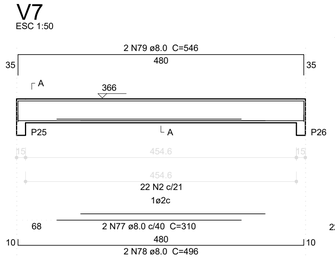
### Resumo do aço

| AÇO | DIAM | C.TOTAL (m) | PESO (kg) |
|---|---|---|---|
| CA50 | 6.3 | 374.2 | 100.7 |
| | 8.0 | 247.7 | 107.5 |
| | 10.0 | 69.6 | 47.2 |
| | 12.5 | 57.7 | 61.1 |
| CA60 | 5.0 | 551.4 | 93.5 |
| PESO TOTAL | | | |
| CA50 | 316.5 | | |
| CA60 | 93.5 | | |

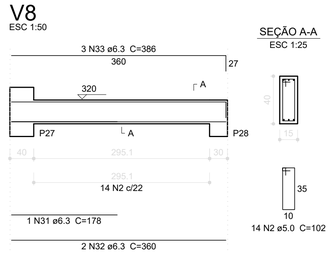
Vol. de concreto total (C-20) = 7.01 m³
Área de forma total = 110.84 m²

| AÇO | | |
|---|---|---|
| TIPO | DIAM. | PESO Kg / m |
| CA - 60 | 5.0 | 0,154 |
| CA - 50 | 6.3 | 0,248 |
| CA - 50 | 8.0 | 0,393 |
| CA - 50 | 10.0 | 0,624 |
| CA - 50 | 12.5 | 0,988 |
| CA - 50 | 16.0 | 1,570 |
| CA - 50 | 20.0 | 2,480 |

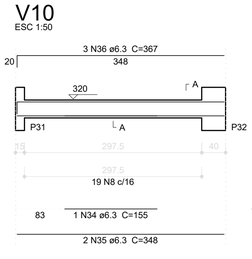
## V7
ESC 1:50



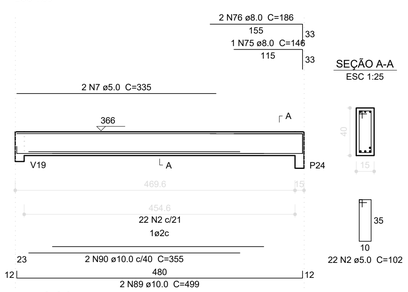

## V8
ESC 1:50



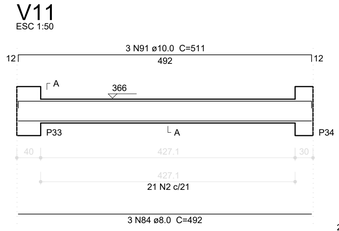

## V10
ESC 1:50



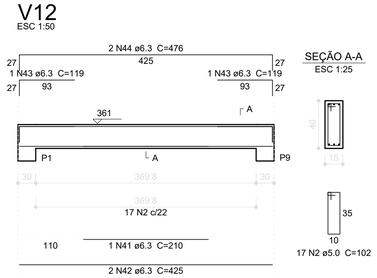

## V6
ESC 1:50



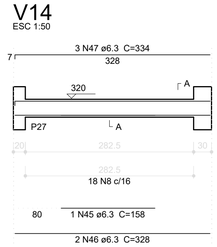

## V11
ESC 1:50



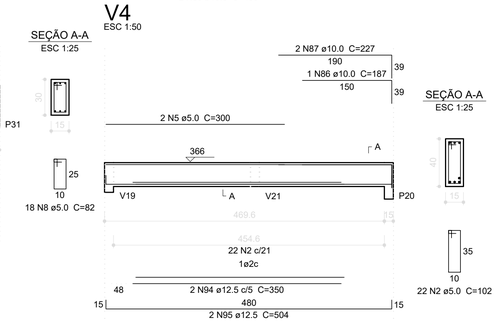

## V12
ESC 1:50



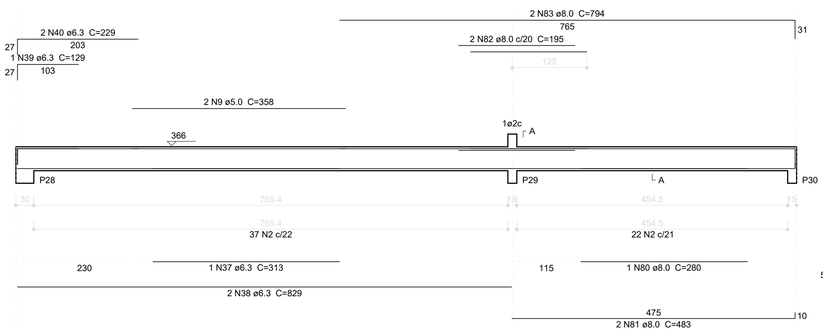

## V14
ESC 1:50



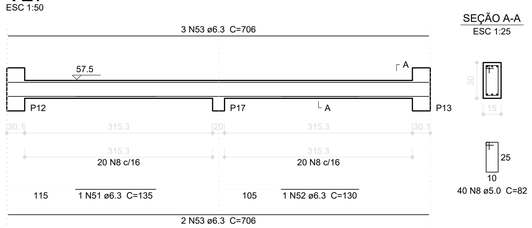

## V4
ESC 1:50




## V9
ESC 1:50




## V27
ESC 1:50




PREFEITURA MUNICIPAL DE SERRANIA
CNPJ: 18.243.261/0001-06
Rua Farmacêutico Joao de Paula Rodrigues, 210-centro– CEP: 37143-000

DEPARTAMENTO MUNICIPAL DE OBRAS, VIAÇÃO E SERVIÇOS URBANOS

# PROJETO ESTRUTURAL

FOLHA 13-18

ASSUNTO: CENTRO DE CONVIVÊNCIA - 30 PESSOAS/TURNO

## ENDEREÇO DA OBRA:

PROPRIETARIO : PREFEITURA MUNICIPAL DE SERRANIA
LOCAL: RUA CEL. ANTÔNIO FAUSTINO, S/N
BAIRRO: CENTRO
CIDADE: SERRANIA - MG

## DESCRIÇÃO DO PROJETO:

DETALHAMENTO DAS VIGAS DO TERREO E LISTA DE MATERIAIS

| ESCALA | DATA | COTAS | ART N° |
|---|---|---|---|
| INDICADA | 24/05/2019 | INDICADA | 14201900000005470533 |

## LOCALIZAÇÃO :




ESC.: SEM ESCALA

PROPRIETÁRIO: PREFEITURA MUNICIPAL DE SERRANIA
LUIZ GONZAGA RIBEIRO NETO

ENGENHEIRO RESPONSÁVEL DO PROJETO
DANIEL TEIXEIRA
CREA: 88.325/D

OBSERVAÇÃO:

ESTE PROJETO SOMENTE PODERÁ TER CARÁTER EXECUTIVO COM AS ASSINATURAS DOS RESPECTIVOS RESPONSÁVEIS TÉCNICOS E DO CONTRATANTE.
TODOS OS DIREITOS DE REPRODUÇÃO, DIVULGAÇÃO ESTÃO RESERVADOS A D.F.T. PROJETOS LTDA., SENDO QUE A COPIA NÃO AUTORIZADA ACARRETA COM A VIOLAÇÃO DOS DIREITOS AUTORAIS E DAS NORMAS BRASILEIRAS EM VIGOR.