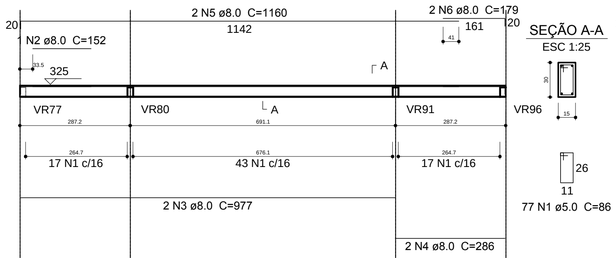
## VR1
ESC 1:75

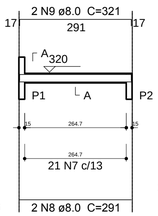



SEÇÃO A-A
ESC 1:25




77 N1 ø5.0 C=86

## VR2
ESC 1:75

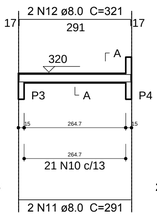



SEÇÃO A-A
ESC 1:25




21 N7 ø5.0 C=76

## VR3
ESC 1:75

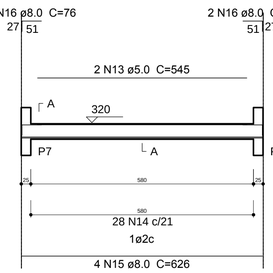



SEÇÃO A-A
ESC 1:25

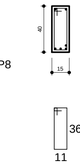



21 N10 ø5.0 C=76

## VR4
ESC 1:75

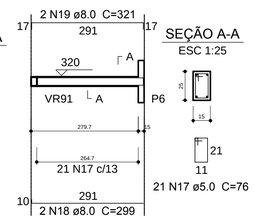



SEÇÃO A-A
ESC 1:25




28 N14 ø5.0 C=106

## VR5
ESC 1:75

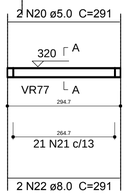



SEÇÃO A-A
ESC 1:25

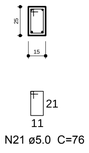



21 N17 ø5.0 C=76

## VR6
ESC 1:75

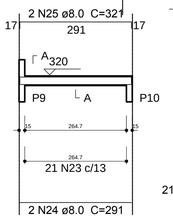



SEÇÃO A-A
ESC 1:25

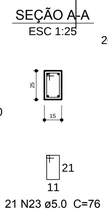



21 N21 ø5.0 C=76

## VR7
ESC 1:75

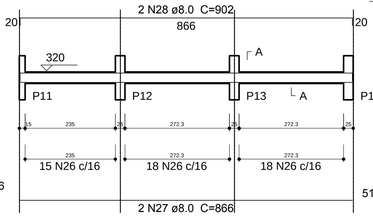



SEÇÃO A-A
ESC 1:25

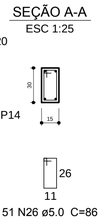



21 N23 ø5.0 C=76

## VR8
ESC 1:75

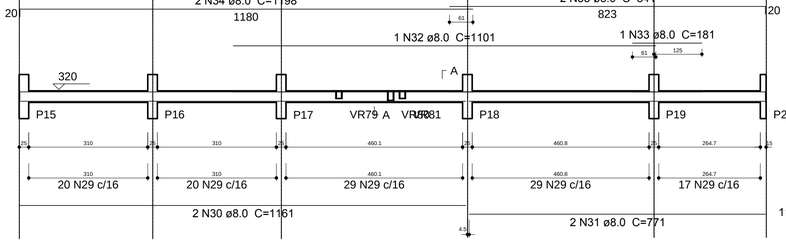



SEÇÃO A-A
ESC 1:25

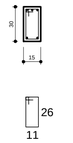



51 N26 ø5.0 C=86

## VR9
ESC 1:75




SEÇÃO A-A
ESC 1:25




115 N29 ø5.0 C=86

## VR10
ESC 1:75




SEÇÃO A-A
ESC 1:25




44 N36 ø5.0 C=86

## VR11
ESC 1:75




SEÇÃO A-A
ESC 1:25




28 N40 ø5.0 C=106

## VR12
ESC 1:75




SEÇÃO A-A
ESC 1:25




14 N43 ø5.0 C=66

## VR13
ESC 1:75




SEÇÃO A-A
ESC 1:25




25 N46 ø5.0 C=66

## VR14
ESC 1:75

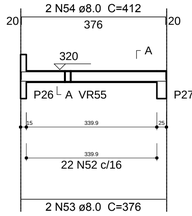



SEÇÃO A-A
ESC 1:25




20 N49 ø5.0 C=86

## VR15
ESC 1:75

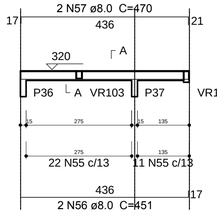



SEÇÃO A-A
ESC 1:25




22 N52 ø5.0 C=86

## VR16
ESC 1:75

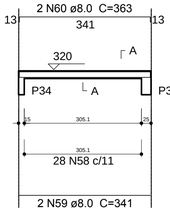



SEÇÃO A-A
ESC 1:25




33 N55 ø5.0 C=76

## VR17
ESC 1:75

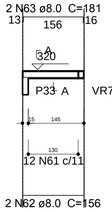



SEÇÃO A-A
ESC 1:25




28 N58 ø5.0 C=66

## VR18
ESC 1:75

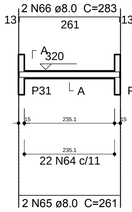



SEÇÃO A-A
ESC 1:25




12 N61 ø5.0 C=66

## VR19
ESC 1:75

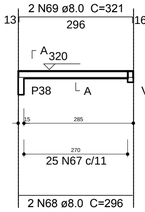



SEÇÃO A-A
ESC 1:25




22 N64 ø5.0 C=66

## VR20
ESC 1:75

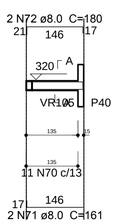



SEÇÃO A-A
ESC 1:25

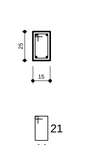



25 N67 ø5.0 C=66

## VR21
ESC 1:75

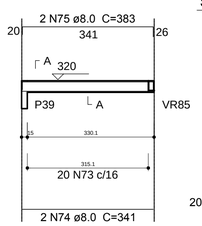



SEÇÃO A-A
ESC 1:25

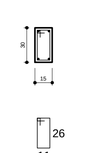



11 N70 ø5.0 C=76

## VR22
ESC 1:75

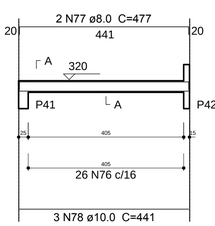



SEÇÃO A-A
ESC 1:25

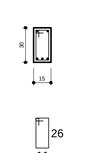



20 N73 ø5.0 C=86

## VR23
ESC 1:75

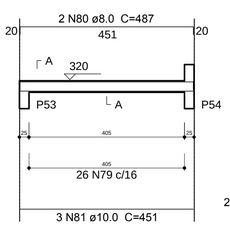



SEÇÃO A-A
ESC 1:25

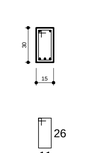



26 N76 ø5.0 C=86

## VR25
ESC 1:75

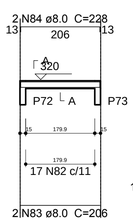



SEÇÃO A-A
ESC 1:25

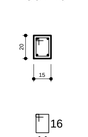



26 N79 ø5.0 C=86

## VR26
ESC 1:75




SEÇÃO A-A
ESC 1:25




17 N82 ø5.0 C=66

## VR27
ESC 1:75




SEÇÃO A-A
ESC 1:25




23 N85 ø5.0 C=66

### Relação do aço

| ELEMENTO | AÇO | N | DIAM (mm) | QUANT (Barras) | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|---|
| VR1 | CA60 | 1 | 5.0 | 77 | 86 | 6622 |
| | CA50 | 2 | 8.0 | 1 | 152 | 152 |
| | CA50 | 3 | 8.0 | 2 | 977 | 1954 |
| | CA50 | 4 | 8.0 | 2 | 286 | 572 |
| | CA50 | 5 | 8.0 | 2 | 1160 | 2320 |
| | CA50 | 6 | 8.0 | 2 | 179 | 358 |
| VR2 | CA60 | 7 | 5.0 | 21 | 76 | 1596 |
| | CA50 | 8 | 8.0 | 2 | 291 | 582 |
| | CA50 | 9 | 8.0 | 2 | 321 | 642 |
| VR3 | CA60 | 10 | 5.0 | 21 | 76 | 1596 |
| | CA50 | 11 | 8.0 | 2 | 291 | 582 |
| | CA50 | 12 | 8.0 | 2 | 321 | 642 |
| VR4 | CA60 | 13 | 5.0 | 2 | 545 | 1090 |
| | CA60 | 14 | 5.0 | 28 | 106 | 2968 |
| | CA50 | 15 | 8.0 | 4 | 626 | 2504 |
| | CA50 | 16 | 8.0 | 4 | 76 | 304 |
| VR5 | CA60 | 17 | 5.0 | 21 | 76 | 1596 |
| | CA50 | 18 | 8.0 | 2 | 299 | 598 |
| | CA50 | 19 | 8.0 | 2 | 321 | 642 |
| VR6 | CA60 | 20 | 5.0 | 2 | 291 | 582 |
| | CA60 | 21 | 5.0 | 21 | 76 | 1596 |
| | CA50 | 22 | 8.0 | 2 | 291 | 582 |
| VR7 | CA60 | 23 | 5.0 | 21 | 76 | 1596 |
| | CA50 | 24 | 8.0 | 2 | 291 | 582 |
| | CA50 | 25 | 8.0 | 2 | 321 | 642 |
| VR8 | CA60 | 26 | 5.0 | 51 | 86 | 4386 |
| | CA50 | 27 | 8.0 | 2 | 866 | 1732 |
| | CA50 | 28 | 8.0 | 2 | 902 | 1804 |
| VR9 | CA60 | 29 | 5.0 | 115 | 86 | 9890 |
| | CA50 | 30 | 8.0 | 2 | 1161 | 2322 |
| | CA50 | 31 | 8.0 | 2 | 771 | 1542 |
| | CA50 | 32 | 8.0 | 1 | 1101 | 1101 |
| | CA50 | 33 | 8.0 | 1 | 181 | 181 |
| | CA50 | 34 | 8.0 | 2 | 1198 | 2396 |
| | CA50 | 35 | 8.0 | 2 | 841 | 1682 |
| VR10 | CA60 | 36 | 5.0 | 44 | 86 | 3784 |
| | CA50 | 37 | 8.0 | 2 | 761 | 1522 |
| | CA50 | 38 | 8.0 | 2 | 803 | 1606 |
| VR11 | CA60 | 39 | 5.0 | 2 | 545 | 1090 |
| | CA60 | 40 | 5.0 | 28 | 106 | 2968 |
| | CA50 | 41 | 8.0 | 4 | 626 | 2504 |
| | CA50 | 42 | 8.0 | 4 | 76 | 304 |
| VR12 | CA60 | 43 | 5.0 | 14 | 66 | 924 |
| | CA50 | 44 | 8.0 | 2 | 167 | 334 |
| | CA50 | 45 | 8.0 | 2 | 183 | 366 |
| VR13 | CA60 | 46 | 5.0 | 25 | 66 | 1650 |
| | CA50 | 47 | 8.0 | 2 | 296 | 592 |
| | CA50 | 48 | 8.0 | 2 | 318 | 636 |
| VR14 | CA60 | 49 | 5.0 | 20 | 86 | 1720 |
| | CA50 | 50 | 8.0 | 2 | 341 | 682 |
| | CA50 | 51 | 8.0 | 2 | 383 | 766 |
| VR15 | CA60 | 52 | 5.0 | 22 | 86 | 1892 |
| | CA50 | 53 | 8.0 | 2 | 376 | 752 |
| | CA50 | 54 | 8.0 | 2 | 412 | 824 |
| VR16 | CA60 | 55 | 5.0 | 33 | 76 | 2508 |
| | CA50 | 56 | 8.0 | 2 | 451 | 902 |
| | CA50 | 57 | 8.0 | 2 | 470 | 940 |
| VR17 | CA60 | 58 | 5.0 | 28 | 66 | 1848 |
| | CA50 | 59 | 8.0 | 2 | 341 | 682 |
| | CA50 | 60 | 8.0 | 2 | 363 | 726 |
| VR18 | CA60 | 61 | 5.0 | 12 | 66 | 792 |
| | CA50 | 62 | 8.0 | 2 | 156 | 312 |
| | CA50 | 63 | 8.0 | 2 | 181 | 362 |
| VR19 | CA60 | 64 | 5.0 | 22 | 66 | 1452 |
| | CA50 | 65 | 8.0 | 2 | 261 | 522 |
| | CA50 | 66 | 8.0 | 2 | 283 | 566 |
| VR20 | CA60 | 67 | 5.0 | 25 | 66 | 1650 |
| | CA50 | 68 | 8.0 | 2 | 296 | 592 |
| | CA50 | 69 | 8.0 | 2 | 321 | 642 |
| VR21 | CA60 | 70 | 5.0 | 11 | 76 | 836 |
| | CA50 | 71 | 8.0 | 2 | 161 | 322 |
| | CA50 | 72 | 8.0 | 2 | 180 | 360 |
| VR22 | CA60 | 73 | 5.0 | 20 | 86 | 1720 |
| | CA50 | 74 | 8.0 | 2 | 341 | 682 |
| | CA50 | 75 | 8.0 | 2 | 383 | 766 |
| VR23 | CA60 | 76 | 5.0 | 26 | 86 | 2236 |
| | CA50 | 77 | 8.0 | 2 | 477 | 954 |
| | CA50 | 78 | 10.0 | 3 | 441 | 1323 |
| VR25 | CA60 | 79 | 5.0 | 26 | 86 | 2236 |
| | CA50 | 80 | 8.0 | 2 | 487 | 974 |
| | CA50 | 81 | 10.0 | 3 | 451 | 1353 |
| VR26 | CA60 | 82 | 5.0 | 17 | 66 | 1122 |
| | CA50 | 83 | 8.0 | 2 | 206 | 412 |
| | CA50 | 84 | 8.0 | 2 | 228 | 456 |
| VR27 | CA60 | 85 | 5.0 | 23 | 66 | 1518 |
| | CA50 | 86 | 8.0 | 2 | 271 | 542 |
| | CA50 | 87 | 8.0 | 2 | 293 | 586 |

### Resumo do aço

| AÇO | DIAM (mm) | C.TOTAL (m) | PESO + 10 % (kg) |
|---|---|---|---|
| CA50 | 8.0 | 496.1 | 215.3 |
| | 10.0 | 26.8 | 18.1 |
| CA60 | 5.0 | 654.7 | 111 |

| PESO TOTAL (kg) | |
|---|---|
| CA50 | 233.5 |
| CA60 | 111 |

Volume de concreto (C-25) = 5.2 m³
Área de forma = 87.58 m²

| | | | | | |
|---|---|---|---|---|---|
| PAS www.pasnet.com.br | | ANO: 2014 | TIPO: ESTR | FOLHA: 16 / 28 | MODIFICAÇÕES: A, B |
| PROPRIETÁRIO: PREF. DO MUNICÍPIO DE PARECIS | | LOCAL: LINHA 75 | | | C |
| OBRA: CONSTRUÇÃO DE HOSPITAL MUNICIPAL — DETALHES DAS VIGAS DE RESPALDO 1 / 6 | | ÁREAS: VER FOLHA 1 DO ARQUITETÔNICO | | | D, E, F |
| AUTOR: | DES.: | DATA: FEVEREIRO DE 2014 | | | G |
| VISTO — PREFEITURA MUNICIPAL: | | DIM.: METRO | | | H |
| VISTO — AUTOR: | | ESC.: INDICADA | | | I |