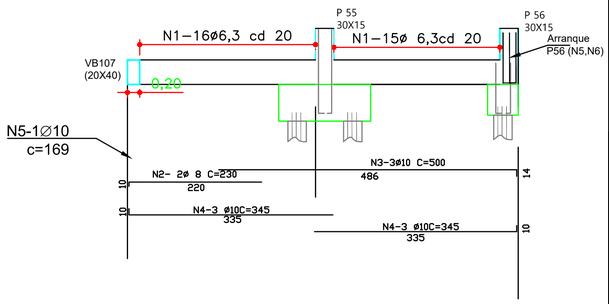
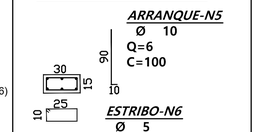
## VB 101 (20X40)

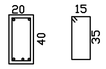



### Arranque P56 (N5,N6)



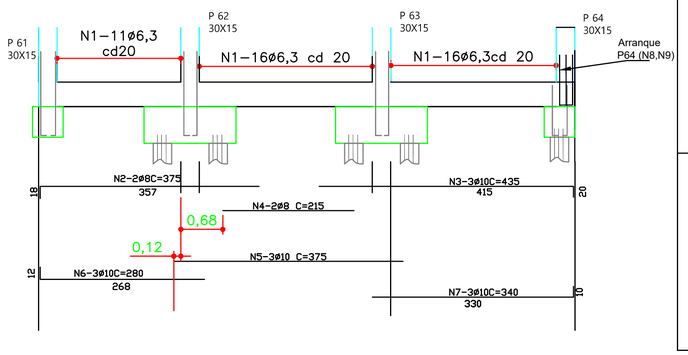

***ARRANQUE-N5***
Ø 10
Q=6
C=100

***ESTRIBO-N6***
Ø 5
Q=2
C=85

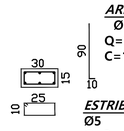



***ESTRIBO-N1***
Ø 6,3
Q=31
C=115

## VB 103 (20X40)

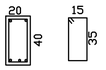



### Arranque P56 (N8,N9)



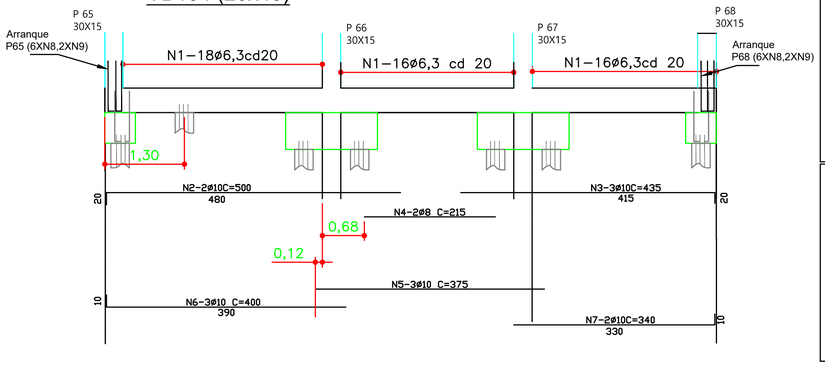

***ARRANQUE-N8***
Ø 10
Q=6
C=100

***ESTRIBO-N9***
Ø5
Q=2
C=85

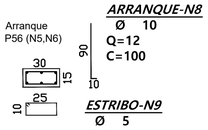



***ESTRIBO-N1***
Ø 6,3
Q=43
C=115

## VB104 (20x40)

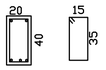



### Arranque P65 e P60 (N8,N9)



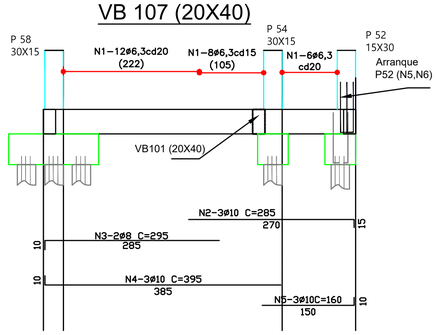

***ARRANQUE-N8***
Ø 10
Q=12
C=100

***ESTRIBO-N9***
Ø 5
Q=4
C=85

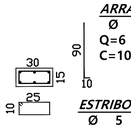



***ESTRIBO-N1***
Ø 6,3
Q=50
C=115

## VB 107 (20X40)

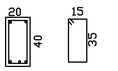



### Arranque P52 (N6,N7)




***ARRANQUE-N6***
Ø 10
Q=6
C=100

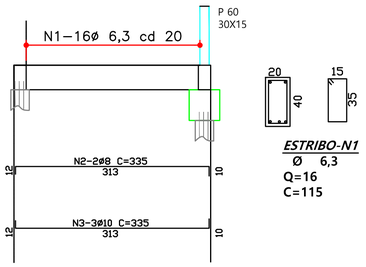
***ESTRIBO-N7***
Ø 5
Q=2
C=85




***ESTRIBO-N1***
Ø 6,3
Q=26
C=115

| TABELA DE AÇO | | | | | | |
|---|---|---|---|---|---|---|
| Local: | | VIGAS NIVEL 100 | | | | |
| PEÇA | Posição | Bitola | Quantidade | repete | Comprimento | |
| | | | | | unitario | total |
| VB101 | N1 | 6,3 | 31 | 1 | 115 | 3565 |
| | N2 | 8 | 2 | 1 | 230 | 460 |
| | N3 | 10 | 3 | 1 | 500 | 1500 |
| | N4 | 10 | 6 | 1 | 345 | 2070 |
| | N5 | 10 | 6 | 1 | 100 | 600 |
| | N6 | 5 | 2 | 1 | 85 | 170 |
| VB102 | N1 | 6,3 | 50 | 1 | 115 | 5750 |
| | N2 | 10 | 3 | 1 | 500 | 1500 |
| | N3 | 10 | 3 | 1 | 435 | 1305 |
| | N4 | 8 | 2 | 1 | 215 | 430 |
| | N5 | 10 | 3 | 1 | 375 | 1125 |
| | N6 | 10 | 3 | 1 | 500 | 1500 |
| | N7 | 10 | 3 | 1 | 340 | 1020 |
| | N8 | 10 | 12 | 1 | 100 | 1200 |
| | N9 | 5 | 2 | 1 | 105 | 210 |
| | N10 | 5 | 2 | 1 | 85 | 170 |
| VB103 | N1 | 6,3 | 47 | 1 | 115 | 5405 |
| | N2 | 8 | 2 | 1 | 375 | 750 |
| | N3 | 8 | 2 | 1 | 215 | 430 |
| | N4 | 10 | 3 | 1 | 435 | 1305 |
| | N5 | 10 | 3 | 1 | 375 | 1125 |
| | N6 | 10 | 3 | 1 | 260 | 780 |
| | N7 | 10 | 3 | 1 | 340 | 1020 |
| | N8 | 10 | 6 | 1 | 100 | 600 |
| | N9 | 5 | 2 | 1 | 85 | 170 |
| VB104 | N1 | 6,3 | 50 | 1 | 115 | 5750 |
| | N2 | 10 | 2 | 1 | 500 | 1000 |
| | N3 | 10 | 3 | 1 | 435 | 1305 |
| | N4 | 8 | 2 | 1 | 215 | 430 |
| | N5 | 10 | 3 | 1 | 375 | 1125 |
| | N6 | 10 | 3 | 1 | 400 | 1200 |
| | N7 | 10 | 3 | 1 | 340 | 1020 |
| | N8 | 10 | 12 | 1 | 100 | 1200 |
| | N9 | 5 | 4 | 1 | 85 | 340 |
| VB105 | N1 | 6,3 | 16 | 1 | 115 | 1840 |
| | N2 | 8 | 2 | 1 | 335 | 670 |
| | N3 | 10 | 3 | 1 | 335 | 1005 |
| VB106=VB108 | N1 | 6,3 | 16 | 2 | 115 | 3680 |
| | N2 | 8 | 2 | 2 | 340 | 1360 |
| | N3 | 10 | 2 | 2 | 340 | 1360 |
| VB107 | N1 | 6,3 | 26 | 1 | 115 | 2990 |
| | N2 | 10 | 3 | 1 | 285 | 855 |
| | N3 | 8 | 2 | 1 | 295 | 590 |
| | N4 | 10 | 3 | 1 | 395 | 1185 |
| | N5 | 10 | 3 | 1 | 160 | 480 |
| | N6 | 10 | 6 | 1 | 100 | 600 |
| | N7 | 5 | 2 | 1 | 85 | 170 |
| VB109 | N1 | 6,3 | 17 | 1 | 115 | 1955 |
| | N2 | 8 | 2 | 1 | 380 | 760 |
| | N3 | 10 | 3 | 1 | 370 | 1110 |

## VB 105 (20X40)

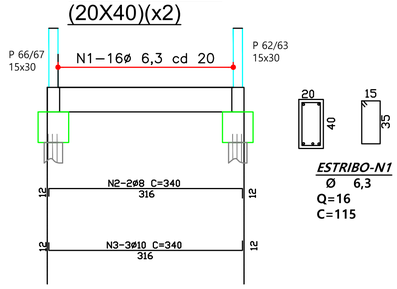






***ESTRIBO-N1***
Ø 6,3
Q=16
C=115

## VB 106=VB 108 (20X40)(x2)

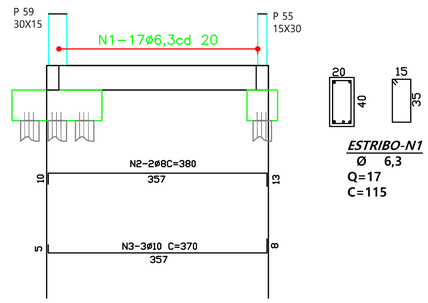






***ESTRIBO-N1***
Ø 6,3
Q=16
C=115

## VB 109 (20X40)

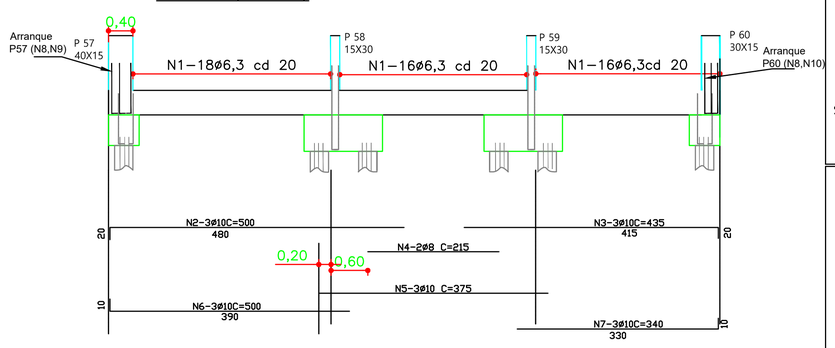




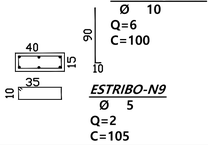


***ESTRIBO-N1***
Ø 6,3
Q=17
C=115

## VB 102 (20X40)



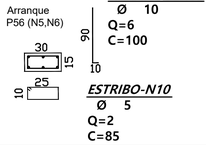

### Arranque P57 (N8,N9)




***ARRANQUE-N8***
Ø 10
Q=6
C=100

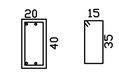
***ESTRIBO-N9***
Ø 5
Q=2
C=105

### Arranque P60 (N8,N10)




***ARRANQUE-N8***
Ø 10
Q=6
C=100

***ESTRIBO-N10***
Ø 5
Q=2
C=85




***ESTRIBO-N1***
Ø 6,3
Q=50
C=115

| Resumo do aço CA 50 | | | |
|---|---|---|---|
| Peças: | VIGAS NIVEL 100 | | |
| bitola | peso/m² | Quantidd | Peso |
| 6,3 | 0,245 | 309,35 | 75,79 |
| 8 | 0,395 | 58,8 | 23,23 |
| 10 | 0,617 | 300,95 | 185,69 |
| 12,5 | 0,963 | 0 | 0,00 |
| 16 | 1,578 | | 0,00 |
| 20 | 2,466 | | 0,00 |
| 25 | 3,853 | | 0,00 |
| | Total s/perda | | 284,70 |
| | Perda (10%) | | 28,47 |
| | Total | | 313,17 |

| Resumo do aço CA 60 | | | |
|---|---|---|---|
| Peças: | VIGAS NIVEL 100 | | |
| bitola | peso/m² | Quantidd | Peso |
| 5 | 0,154 | 12,3 | 1,89 |
| | Total s/perda | | 2 |
| | Perda (10%) | | 0 |
| | Total | | 2 |

PREFEITURA MUNICIPAL DA ESTÂNCIA TURÍSTICA DE TREMEMBÉ

OBJETO: REFORMA E AMPLIAÇÃO DE PRÉDIO PARA POSTO DE SAÚDE NO BAIRRO DOS GUEDES

LOCAL: AVENIDA JOSÉ ZAINA Nº 96, BAIRRO DOS GUEDES, TREMEMBÉ, SP

ASSUNTO: PROJETO ESTRUTURAL– ARMAÇÃO DAS VIGAS BALDRAMES

FOLHA: EST 04/08

DATA: OUTUBRO/2026

ESCALA: INDICADA

DESENHO: R00

CLEMENTE ANTONIO DE LIMA NETO
PREFEITO MUNICIPAL

SERGIO LUIZ DE ALVARENGA
ENGENHEIRO CIVIL
CREA/SP: 060096681