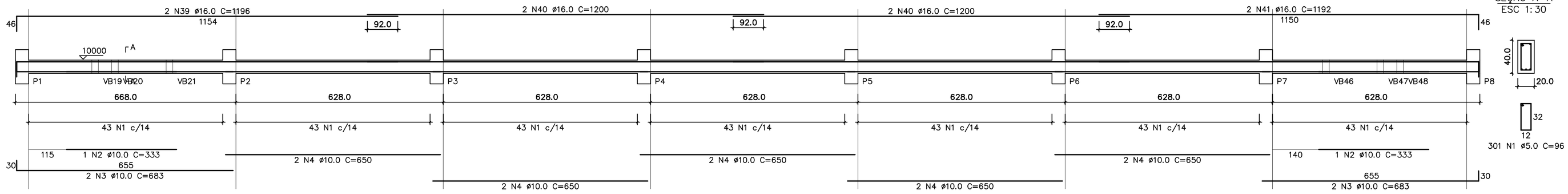
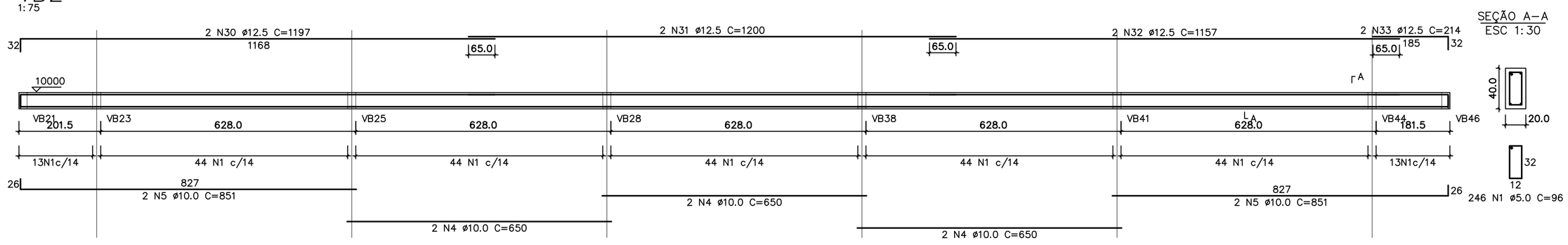
## VB1
1:75




SEÇÃO A–A
ESC 1:30



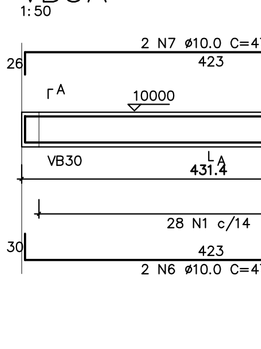

## VB2
1:75



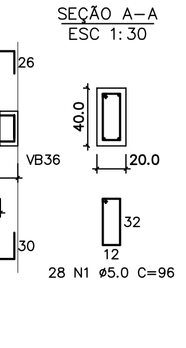

SEÇÃO A–A
ESC 1:30



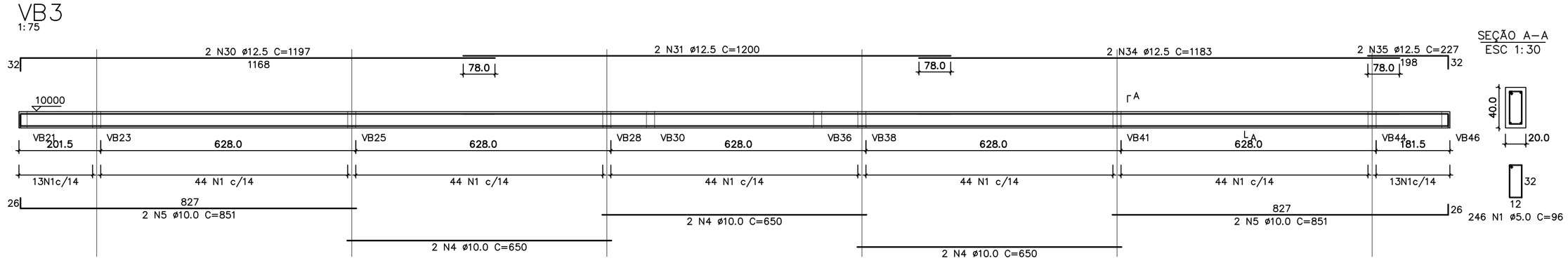

## VB3A
1:50




SEÇÃO A–A
ESC 1:30



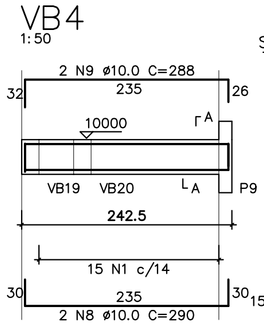

## VB3
1:75



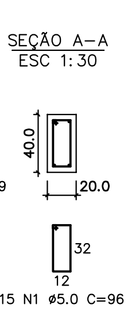

SEÇÃO A–A
ESC 1:30



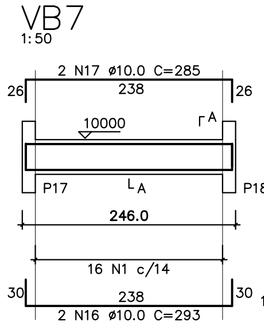

## VB4
1:50



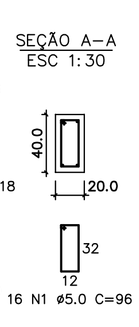

SEÇÃO A–A
ESC 1:30




## VB7
1:50




SEÇÃO A–A
ESC 1:30




## RELAÇÃO DO AÇO

| | | |
|---|---|---|
| VB1 | VB2 | VB3 |
| VB3A | VB4 | VB5 |
| VB6 | VB7 | VB8 |
| VB10 | VB11 | VB12 |
| VB13 | VB14 | VB15 |
| VB18 | VB19 | VB20 |
| VB21 | | |

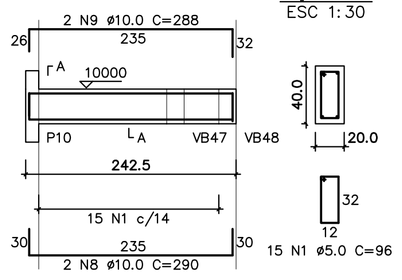
| AÇO | N | DIAM | Q | UNIT (cm) | C.TOTAL (cm) |
|---|---|---|---|---|---|
| 60 | 1 | 5.0 | 1374 | 96 | 131904 |
| 50 | 2 | 10.0 | 2 | 333 | 666 |
| | 3 | 10.0 | 4 | 683 | 2732 |
| | 4 | 10.0 | 28 | 650 | 18200 |
| | 5 | 10.0 | 8 | 851 | 6808 |
| | 6 | 10.0 | 2 | 478 | 956 |
| | 7 | 10.0 | 2 | 470 | 940 |
| | 8 | 10.0 | 4 | 290 | 1160 |
| | 9 | 10.0 | 4 | 288 | 1152 |
| | 10 | 10.0 | 4 | 855 | 3420 |
| | 11 | 10.0 | 1 | 378 | 378 |
| | 12 | 10.0 | 2 | 1198 | 2396 |
| | 13 | 10.0 | 2 | 1200 | 2400 |
| | 14 | 10.0 | 2 | 1149 | 2298 |
| | 15 | 10.0 | 2 | 208 | 416 |
| | 16 | 10.0 | 4 | 293 | 1172 |
| | 17 | 10.0 | 4 | 285 | 1140 |
| | 18 | 10.0 | 4 | 547 | 2188 |
| | 19 | 10.0 | 4 | 539 | 2156 |
| | 20 | 10.0 | 4 | 516 | 2064 |
| | 21 | 10.0 | 2 | 242 | 484 |
| | 22 | 10.0 | 2 | 234 | 468 |
| | 23 | 10.0 | 2 | 577 | 1154 |
| | 24 | 10.0 | 2 | 340 | 680 |
| | 25 | 10.0 | 2 | 338 | 676 |
| | 26 | 10.0 | 2 | 262 | 524 |
| | 27 | 10.0 | 2 | 260 | 520 |
| | 28 | 10.0 | 2 | 272 | 544 |
| | 29 | 10.0 | 2 | 284 | 568 |
| | 30 | 12.5 | 4 | 1197 | 4788 |
| | 31 | 12.5 | 4 | 1200 | 4800 |
| | 32 | 12.5 | 2 | 1157 | 2314 |
| | 33 | 12.5 | 2 | 214 | 428 |
| | 34 | 12.5 | 2 | 1183 | 2366 |
| | 35 | 12.5 | 2 | 227 | 454 |
| | 36 | 12.5 | 2 | 343 | 686 |
| | 37 | 12.5 | 4 | 523 | 2092 |
| | 38 | 12.5 | 2 | 591 | 1182 |
| | 39 | 16.0 | 2 | 1196 | 2392 |
| | 40 | 16.0 | 4 | 1200 | 4800 |
| | 41 | 16.0 | 2 | 1192 | 2384 |
| | 42 | 16.0 | 2 | 360 | 720 |

## RESUMO DO AÇO

| AÇO | DIAM | C.TOTAL (m) | PESO+10% (kg) |
|---|---|---|---|
| CA50 | 10.0 | 582.8 | 395.3 |
| | 12.5 | 191.1 | 202.7 |
| | 16.0 | 103.0 | 178.9 |
| CA60 | 5.0 | 1325.8 | 224.6 |
| PESO TOTAL | | | |
| CA50 | 776.9 | | |
| CA60 | 224.6 | | |

Vol. concreto total = 16.12 m³
Área de forma total = 201.47 m²
fck = 300.00 kgf/cm²

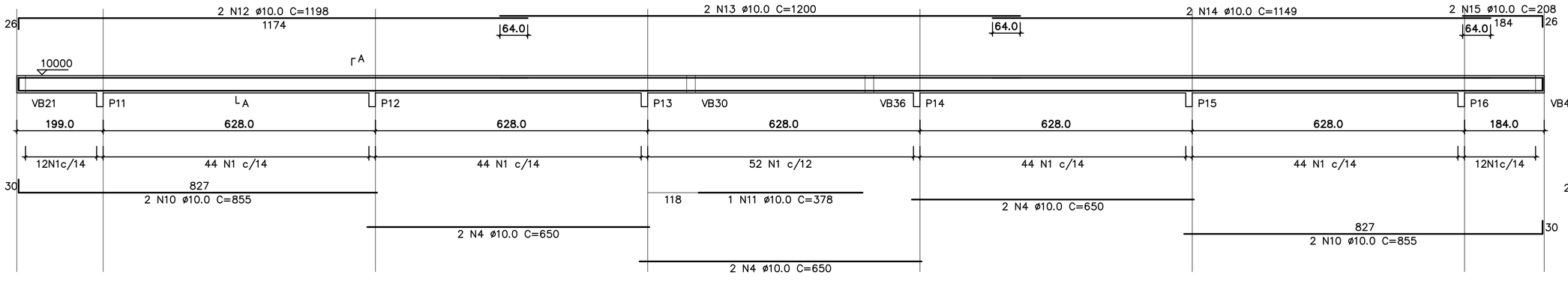
## VB5
1:50



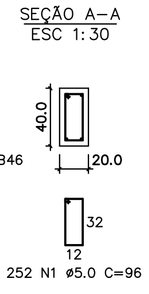

SEÇÃO A–A
ESC 1:30



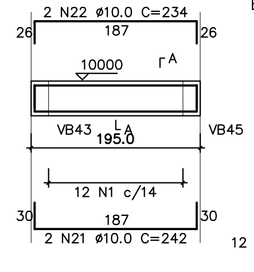

## VB6
1:75



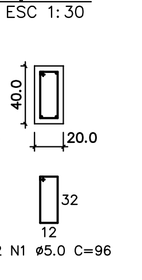

SEÇÃO A–A
ESC 1:30



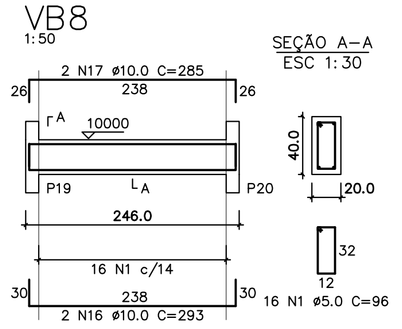

## VB14
1:50




SEÇÃO A–A
ESC 1:30



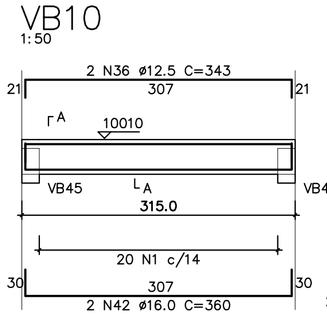

## VB8
1:50



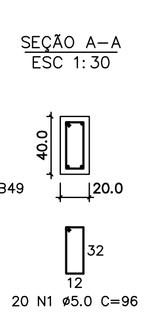

SEÇÃO A–A
ESC 1:30



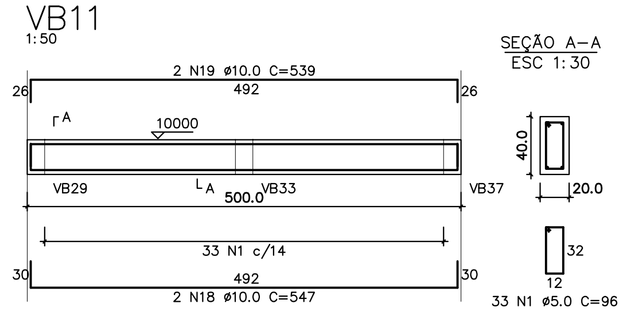

## VB10
1:50




SEÇÃO A–A
ESC 1:30



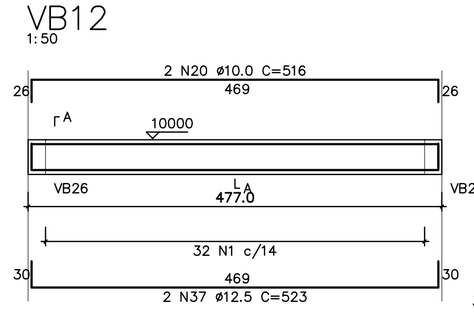

## VB11
1:50



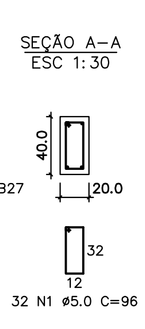

SEÇÃO A–A
ESC 1:30



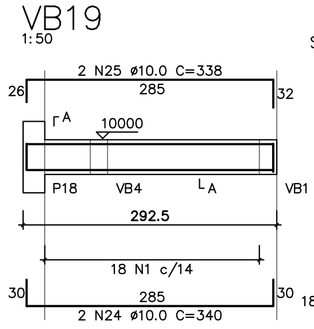

## VB12
1:50



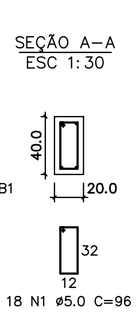

SEÇÃO A–A
ESC 1:30



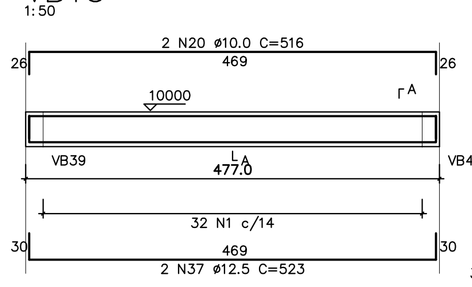

## VB19
1:50



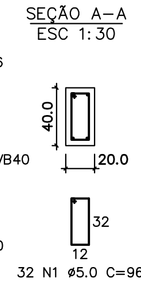

SEÇÃO A–A
ESC 1:30



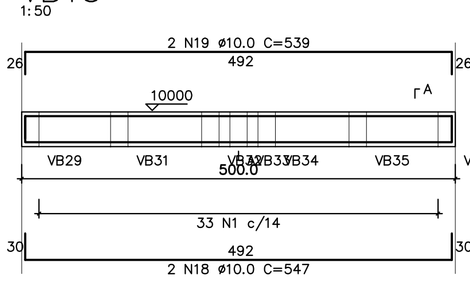

## VB13
1:50



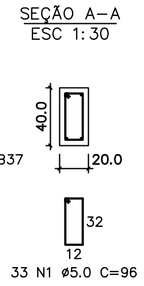

SEÇÃO A–A
ESC 1:30




## VB15
1:50




SEÇÃO A–A
ESC 1:30

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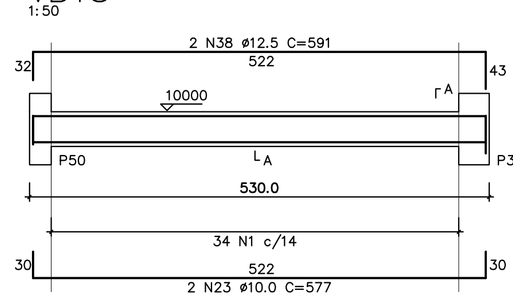
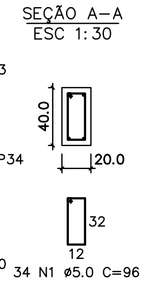
1:50




SEÇÃO A–A
ESC 1:30

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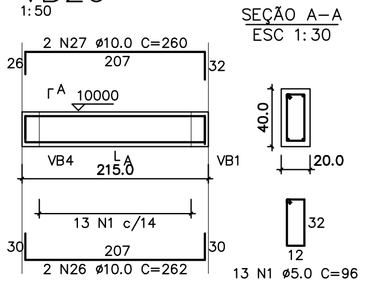
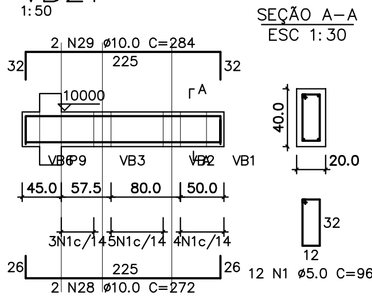
1:50




SEÇÃO A–A
ESC 1:30




## VB21
1:50




SEÇÃO A–A
ESC 1:30

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| REV | DATA | RESP. | DESCRIÇÃO | FASE DO PROJETO |
|---|---|---|---|---|
| 1 | 28/11/2013 | PAULO | EMISSÃO INICIAL | EXECUTIVO |

ASBUILT ☐ EXECUTIVO ■ COMENTADO ☐ BÁSICO ☐

TITULO:
**CIE - CENTRO DE INICIAÇÃO AO ESPORTE**

PROJETO:

MODALIDADE:
ESTRUTURA DE CONCRETO - PROJETO EXECUTIVO

ESPECIALIDADE:
GINÁSIO CIE:S40-45 - ARMADURA, VIGAS E BALDRAMES

AUTOR DO PROJETO:
ENG. PAULO SERGIO BATISTA PEREIRA
CREA: 060085974SP - ART: 92221220140569811

VERIFICAÇÃO/DATA: CIE-28/11/13
EMISSÃO INICIAL: 28/11/13
FOLHA: 006/016
AREA: IMPLANTAÇÃO MÓD. 1,2 e 3
ESCALA: INDICADA
IDENTIFICAÇÃO/ARQUIVO: CIE-S40-45-ESC-EX-4005-R00.dwg

DIREITOS AUTORAIS RESERVADOS. VEDADA A REPRODUÇÃO TOTAL OU PARCIAL.