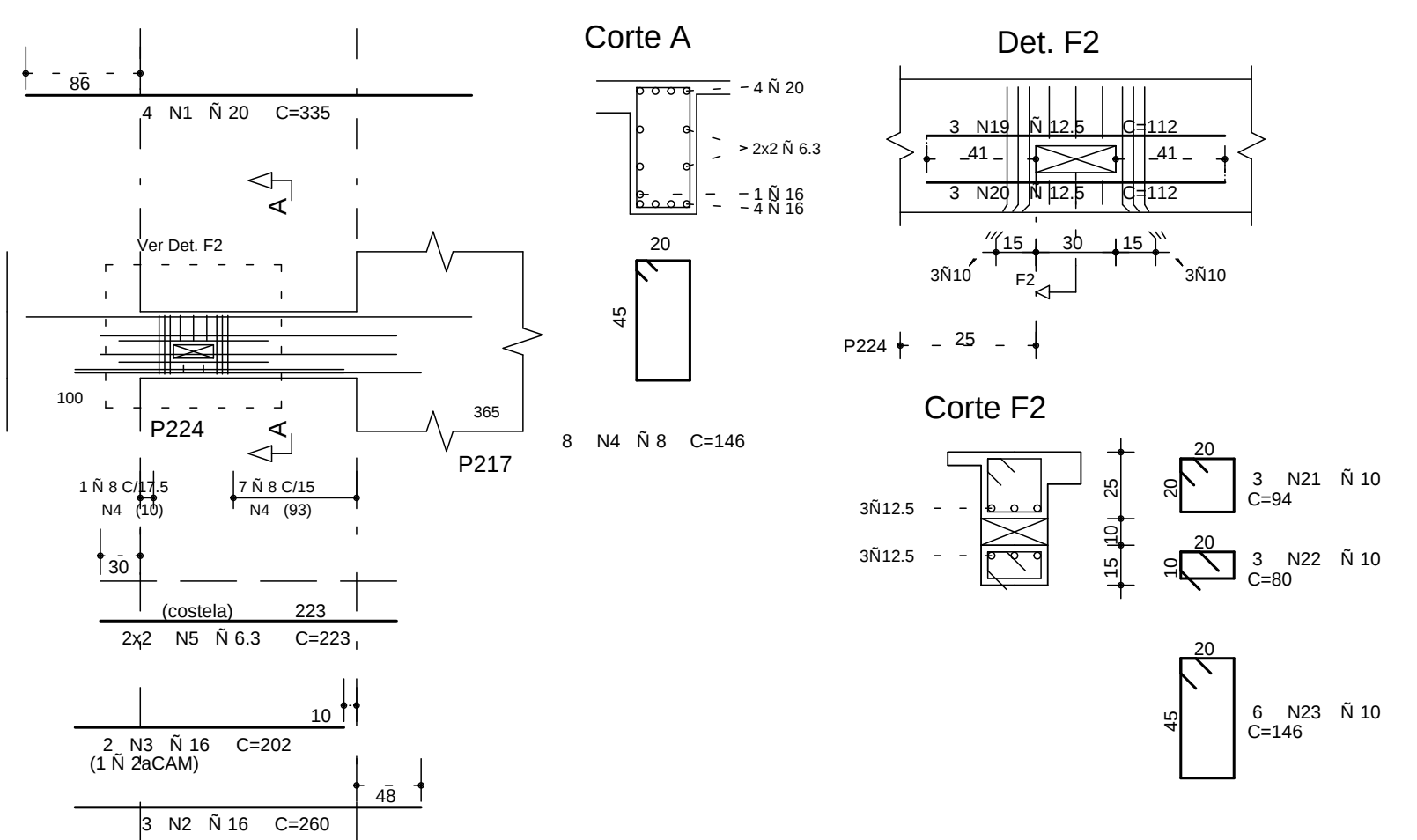
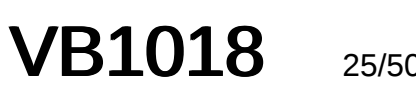
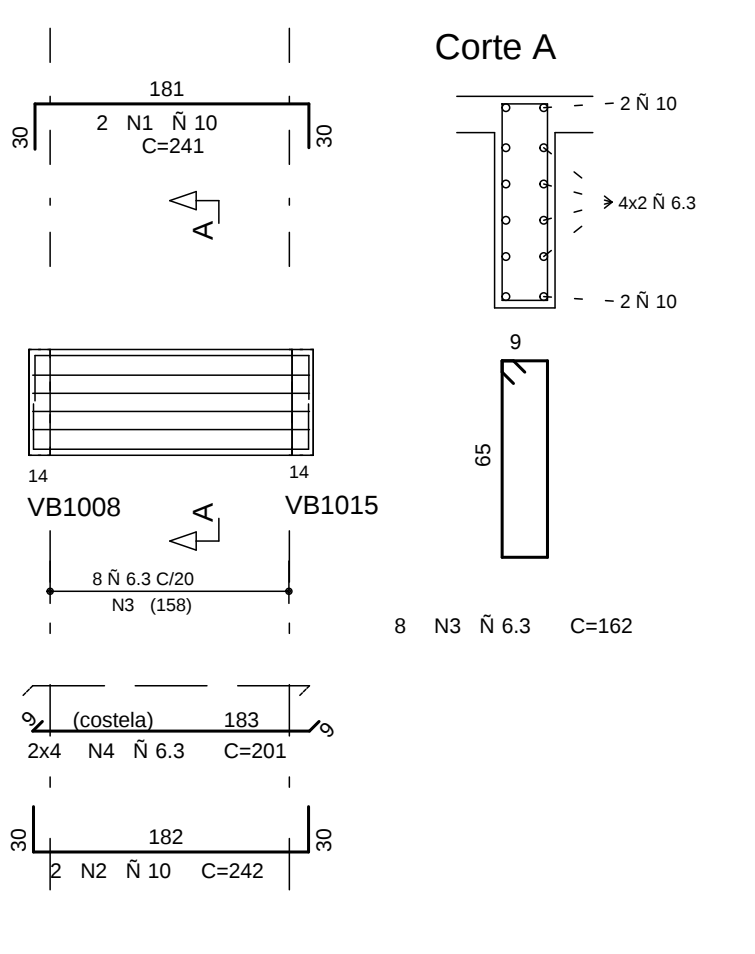
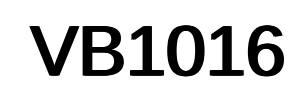
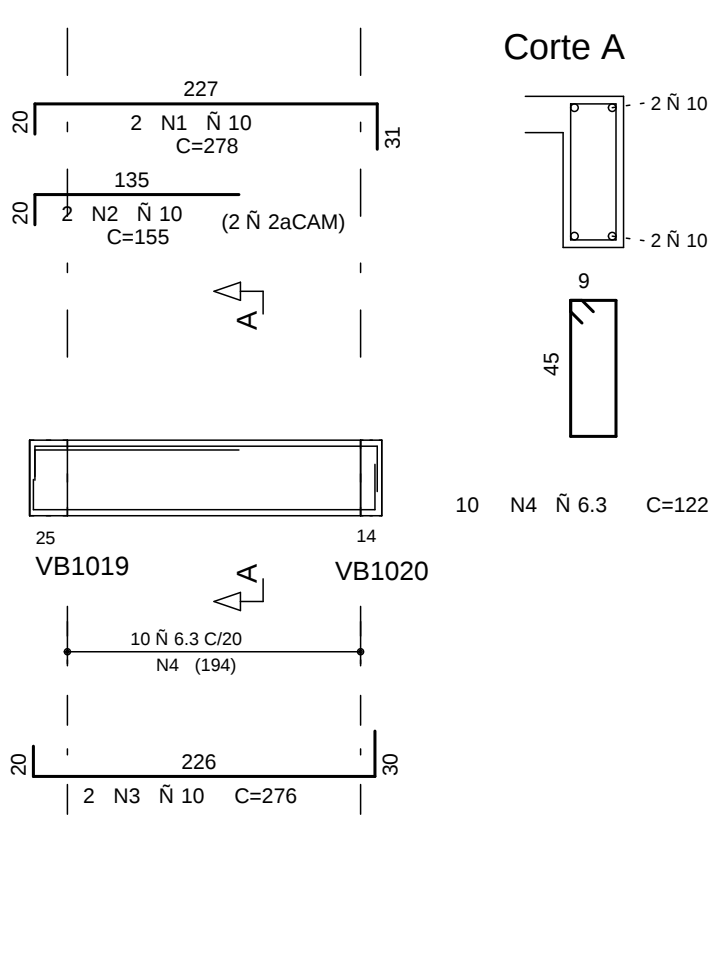
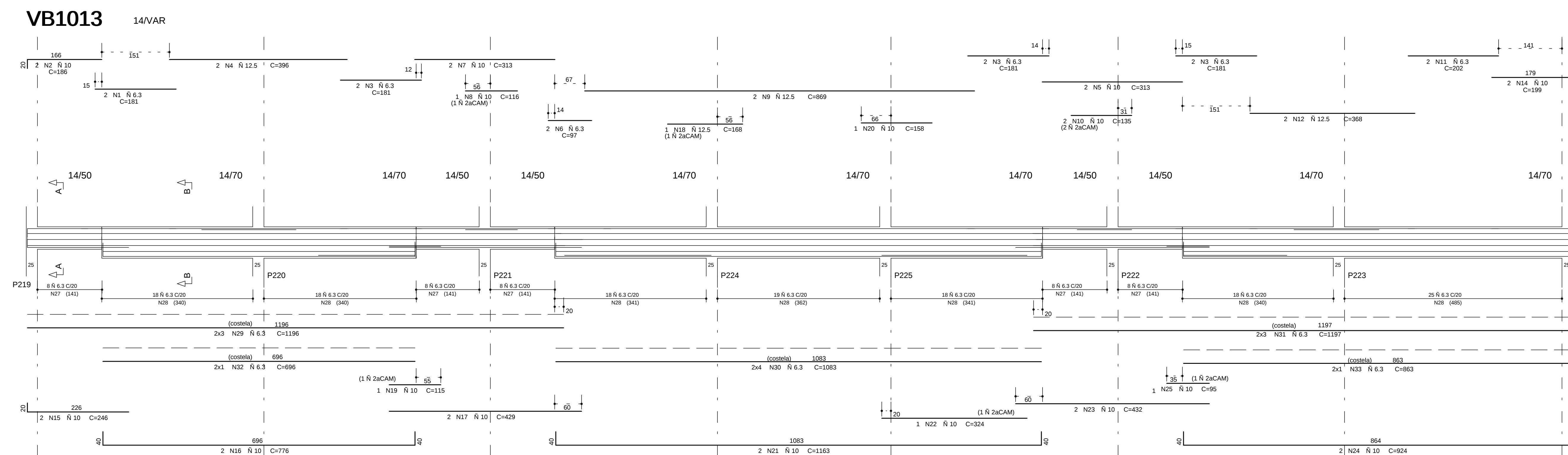
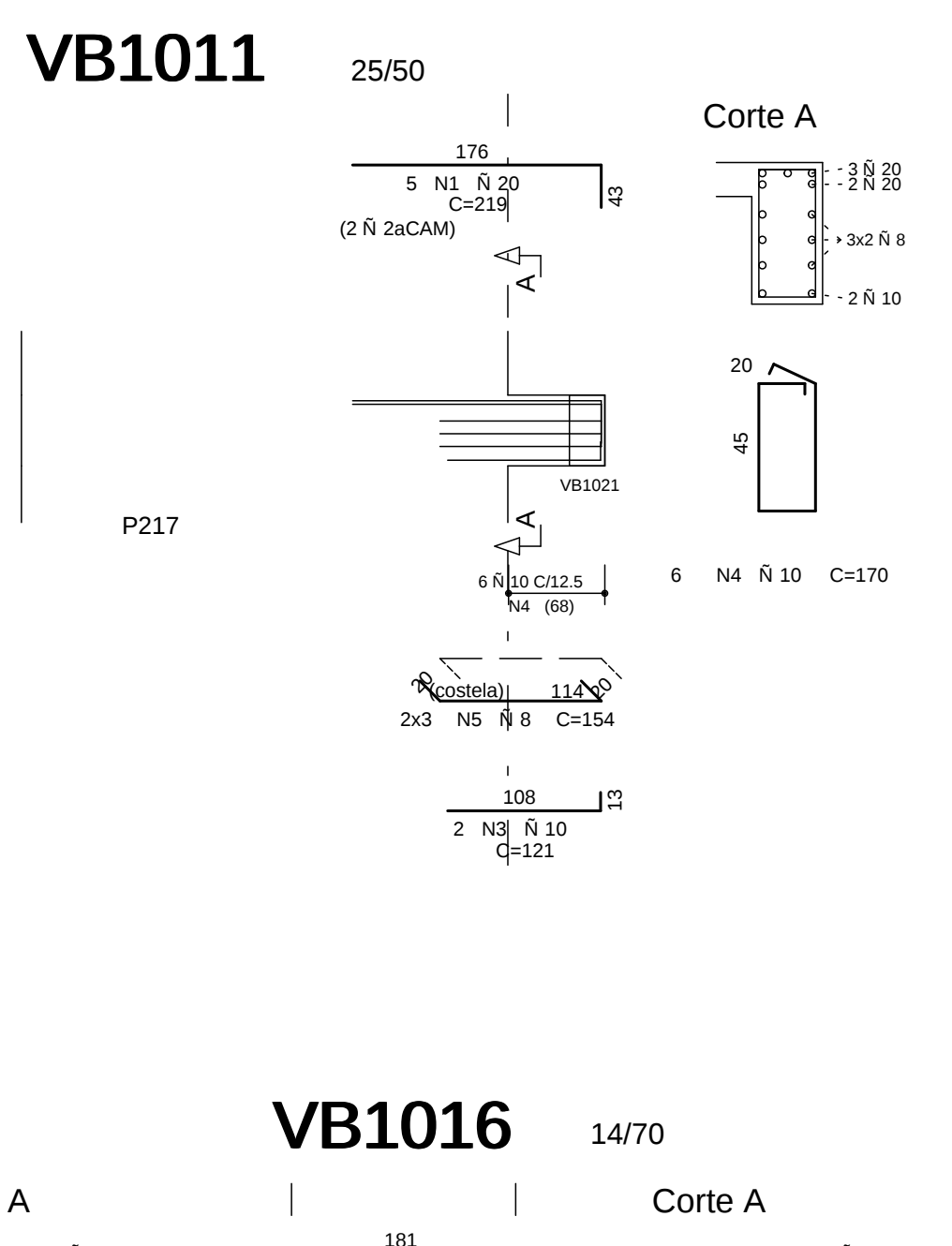
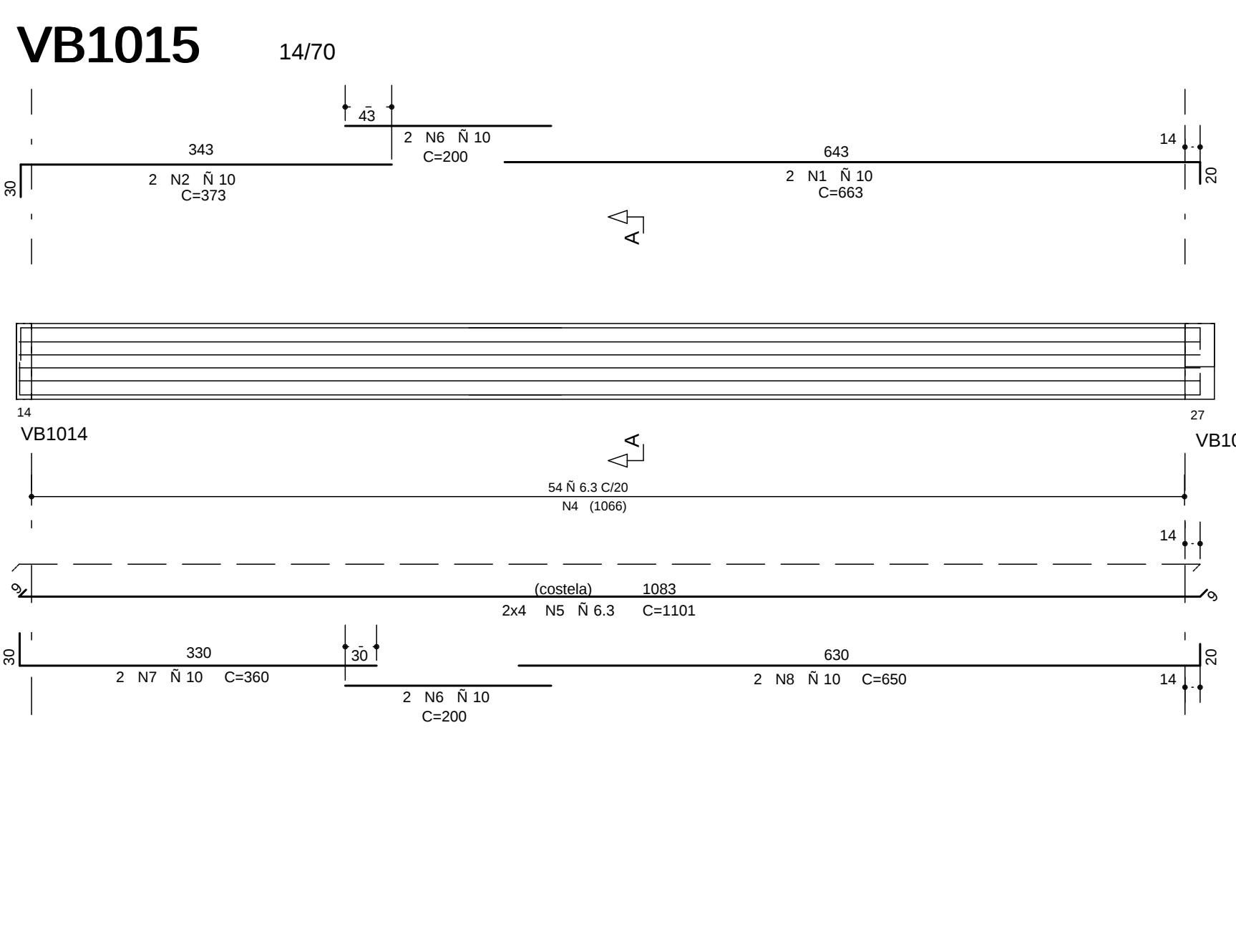
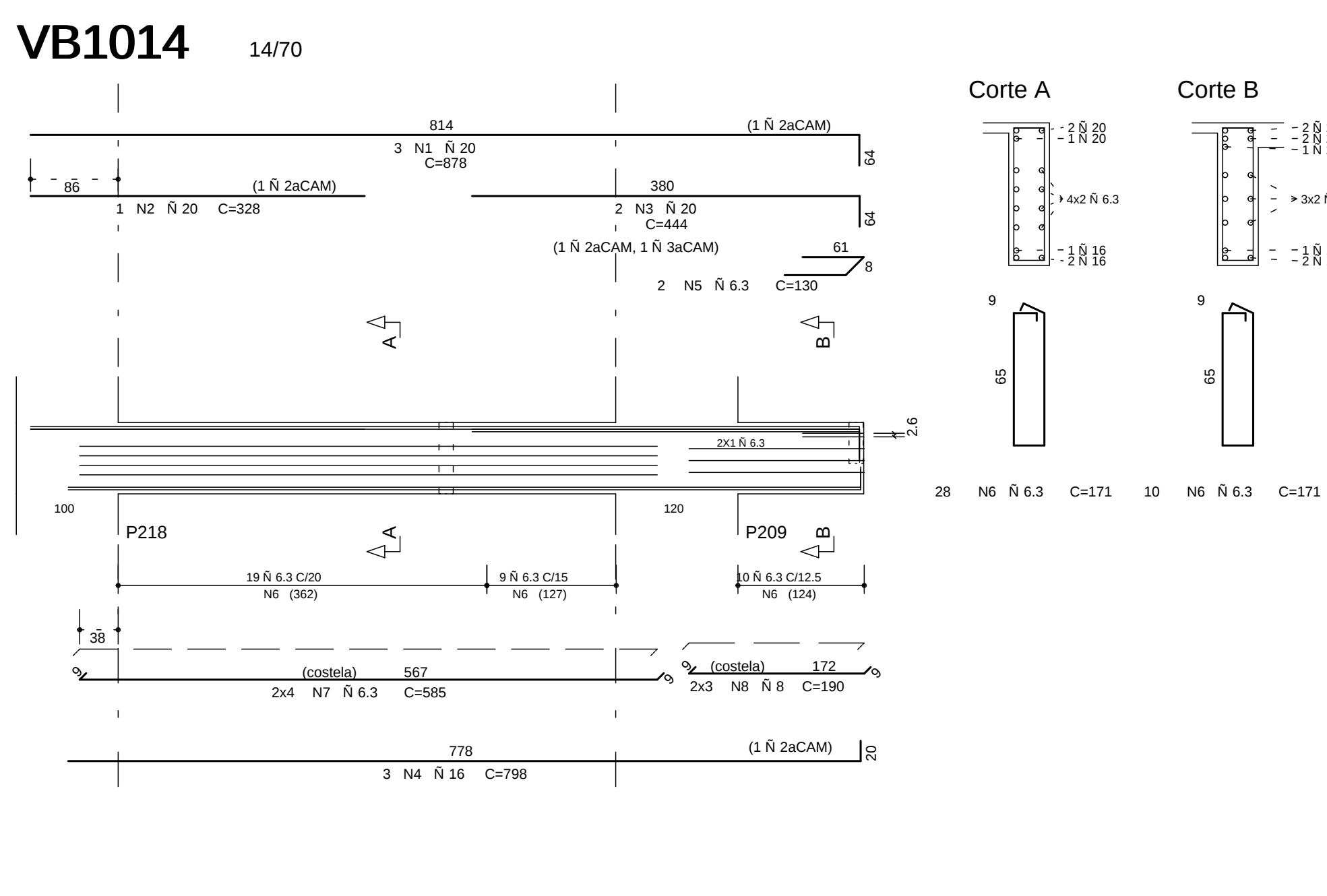
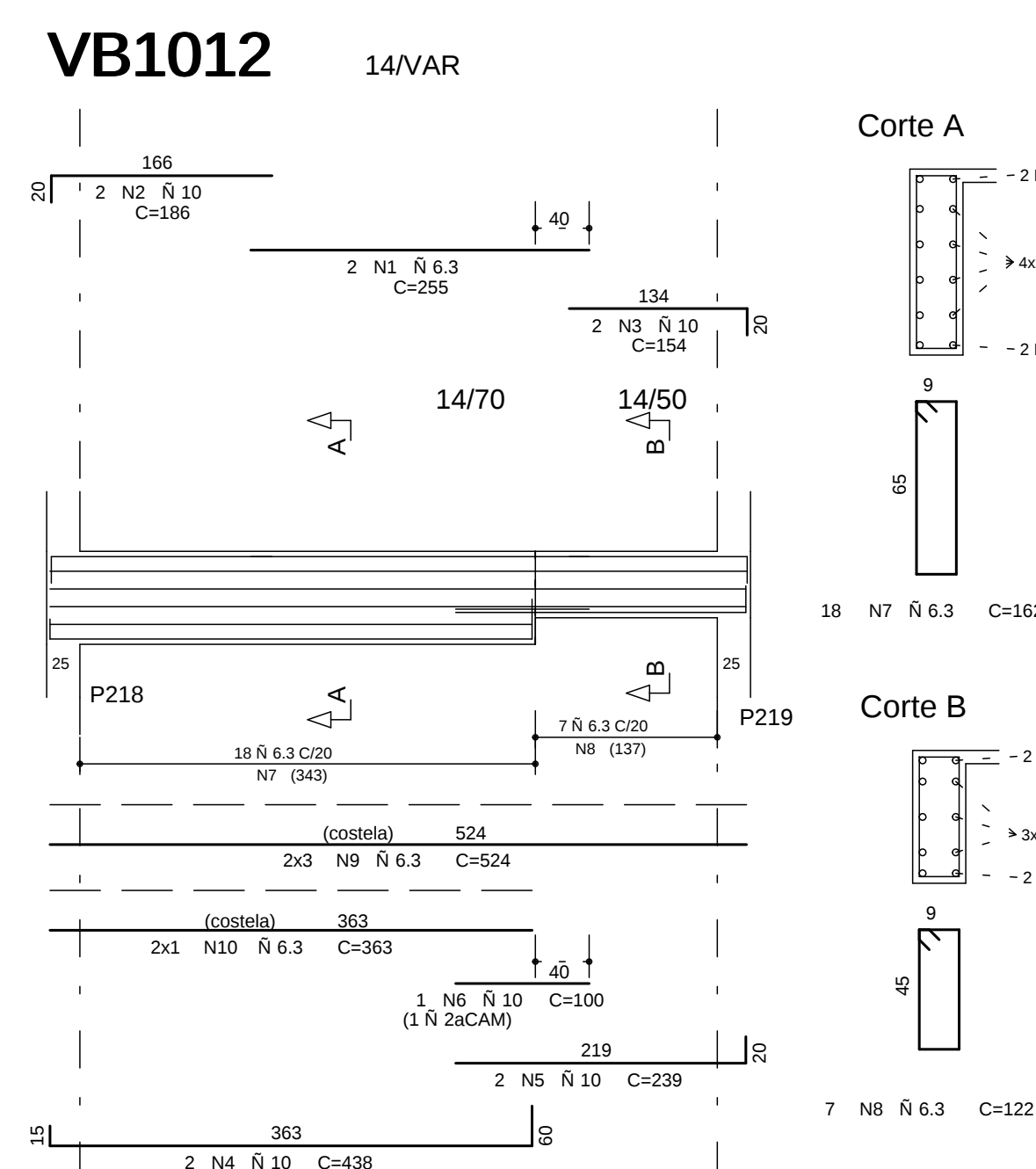
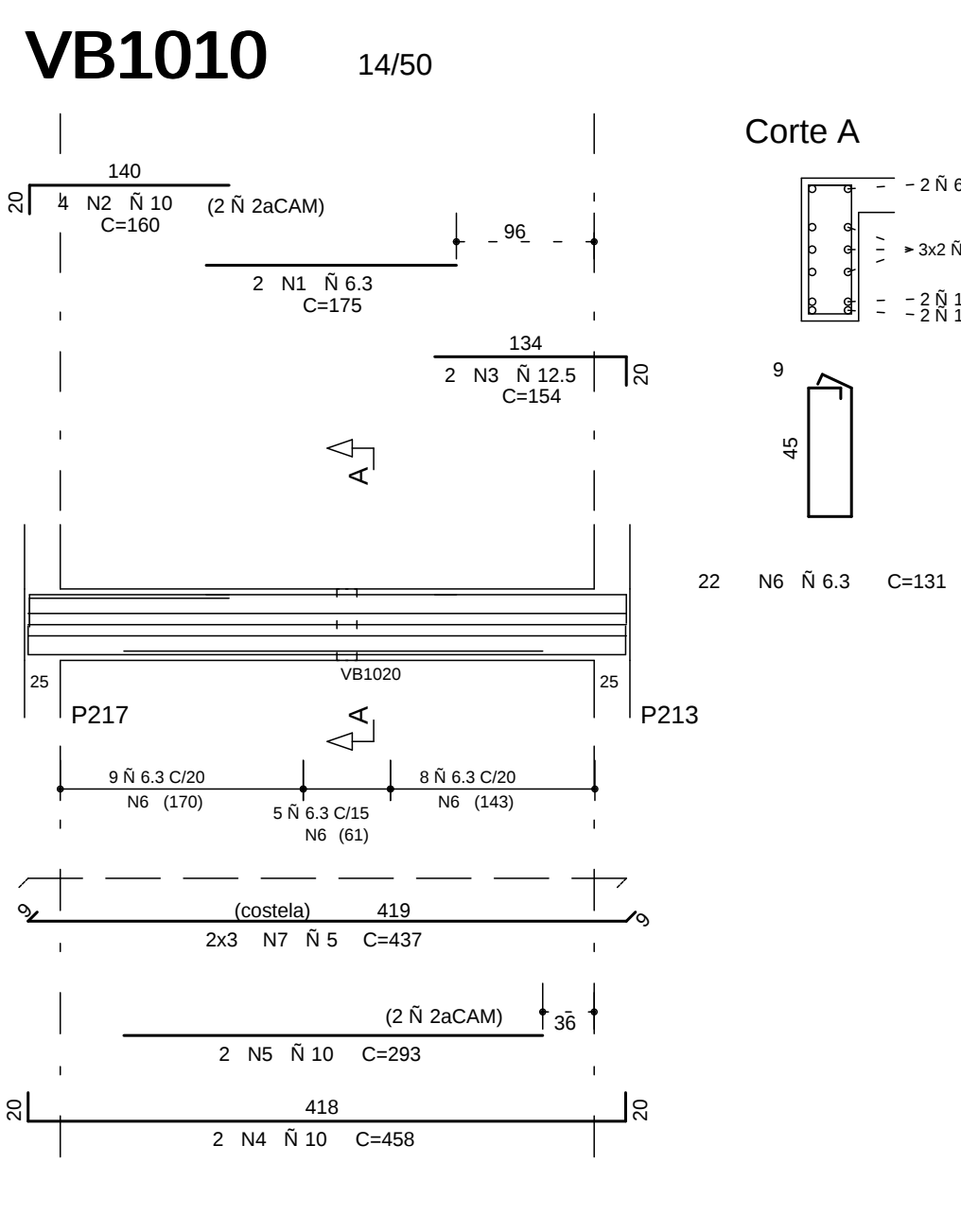
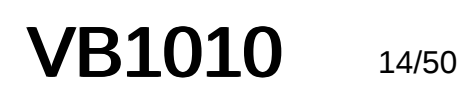
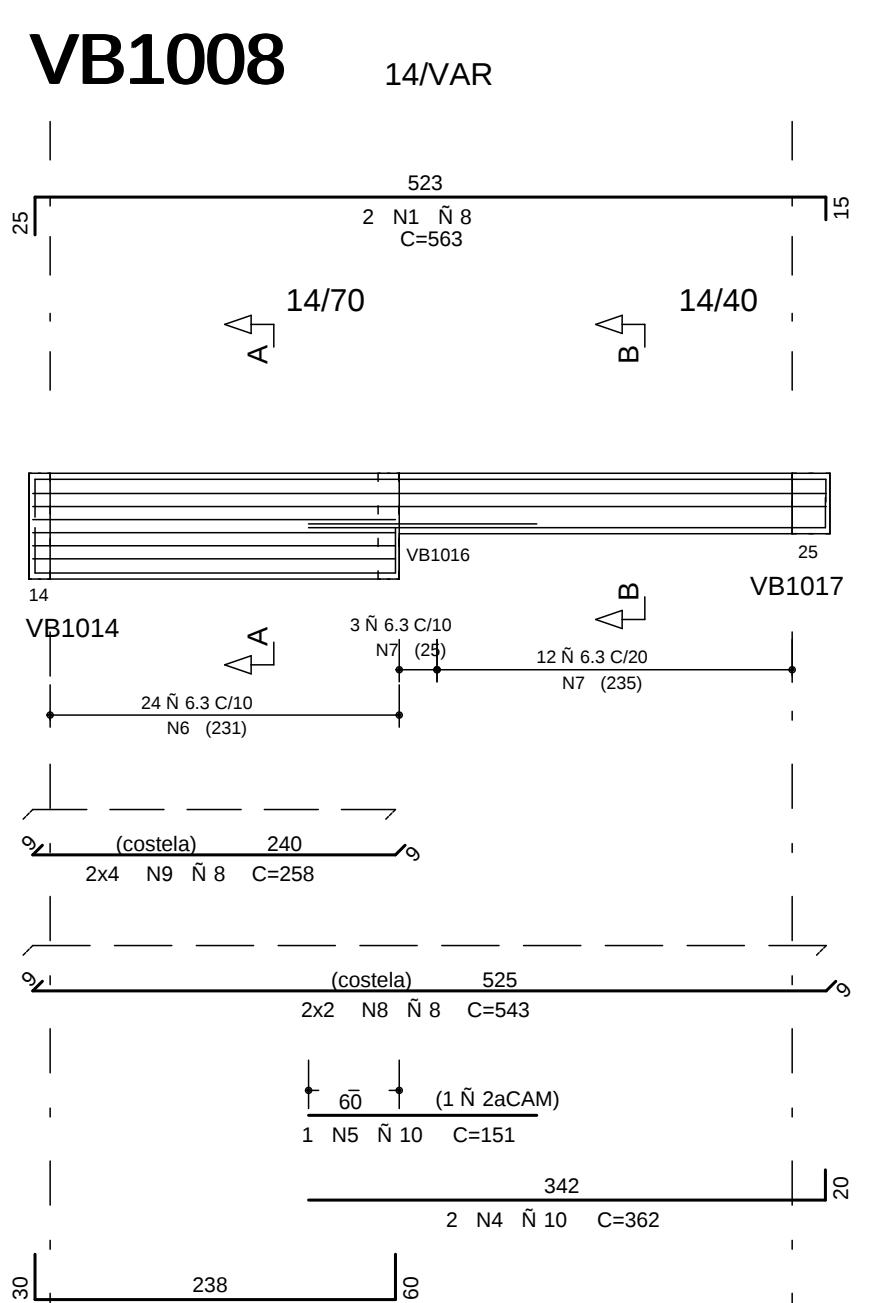
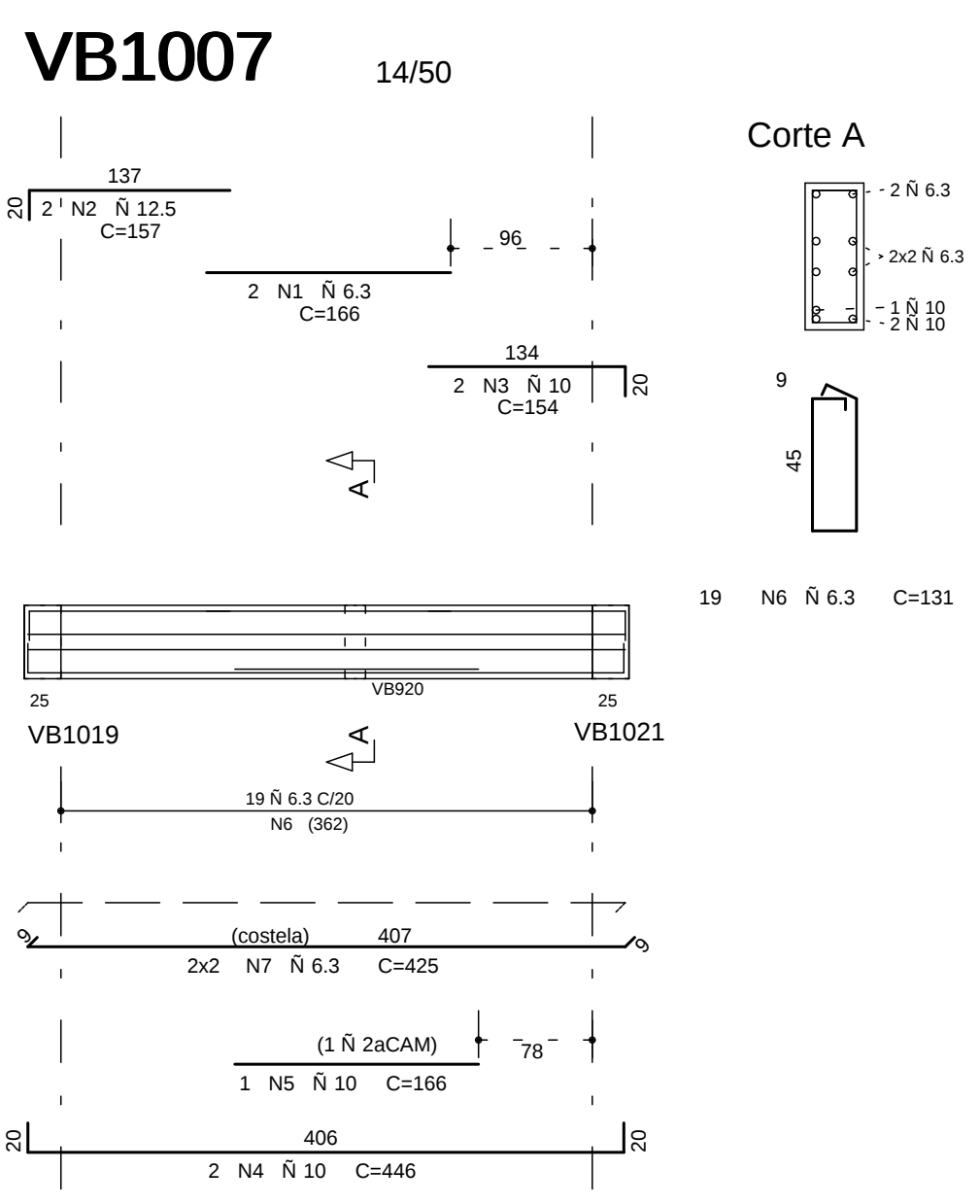
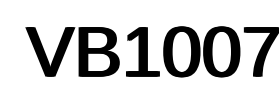
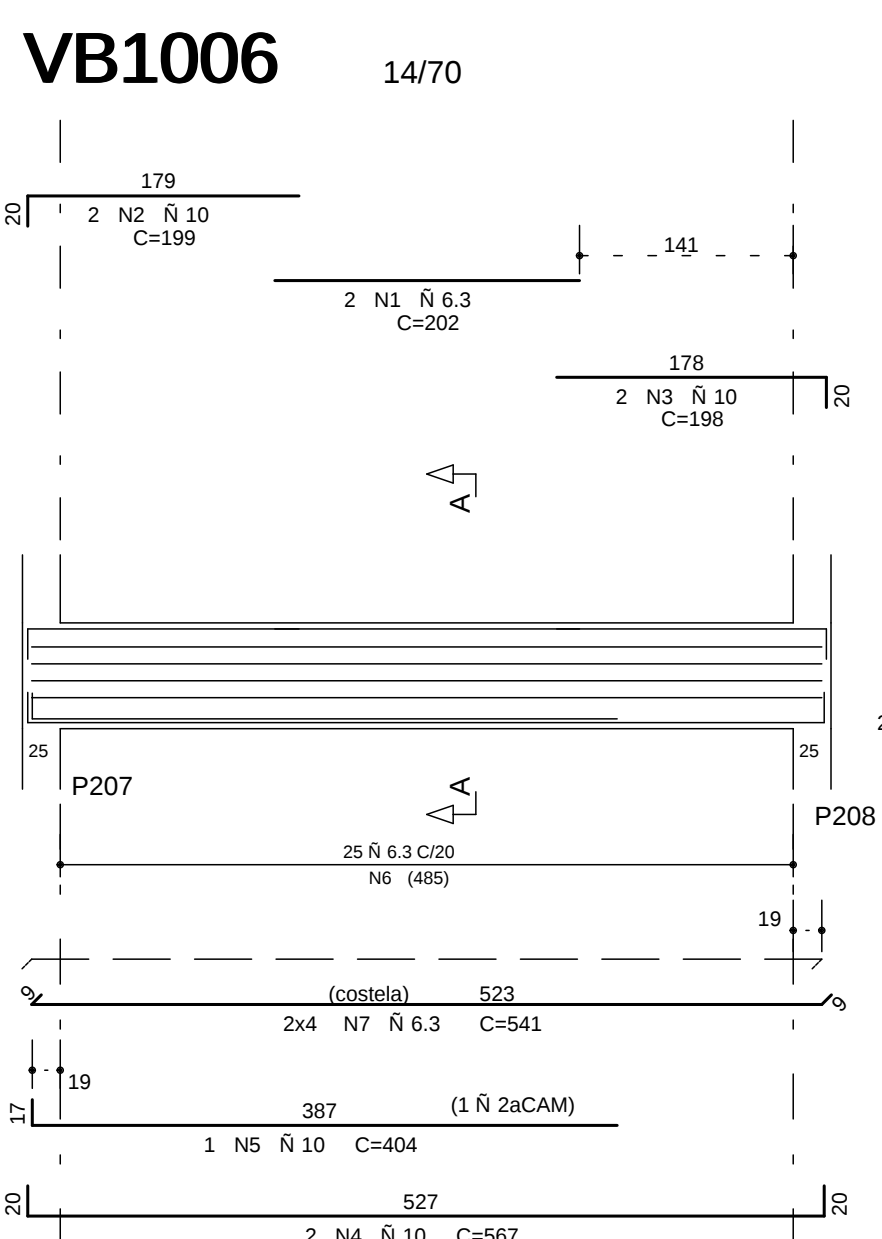
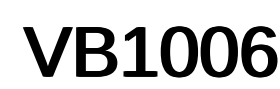
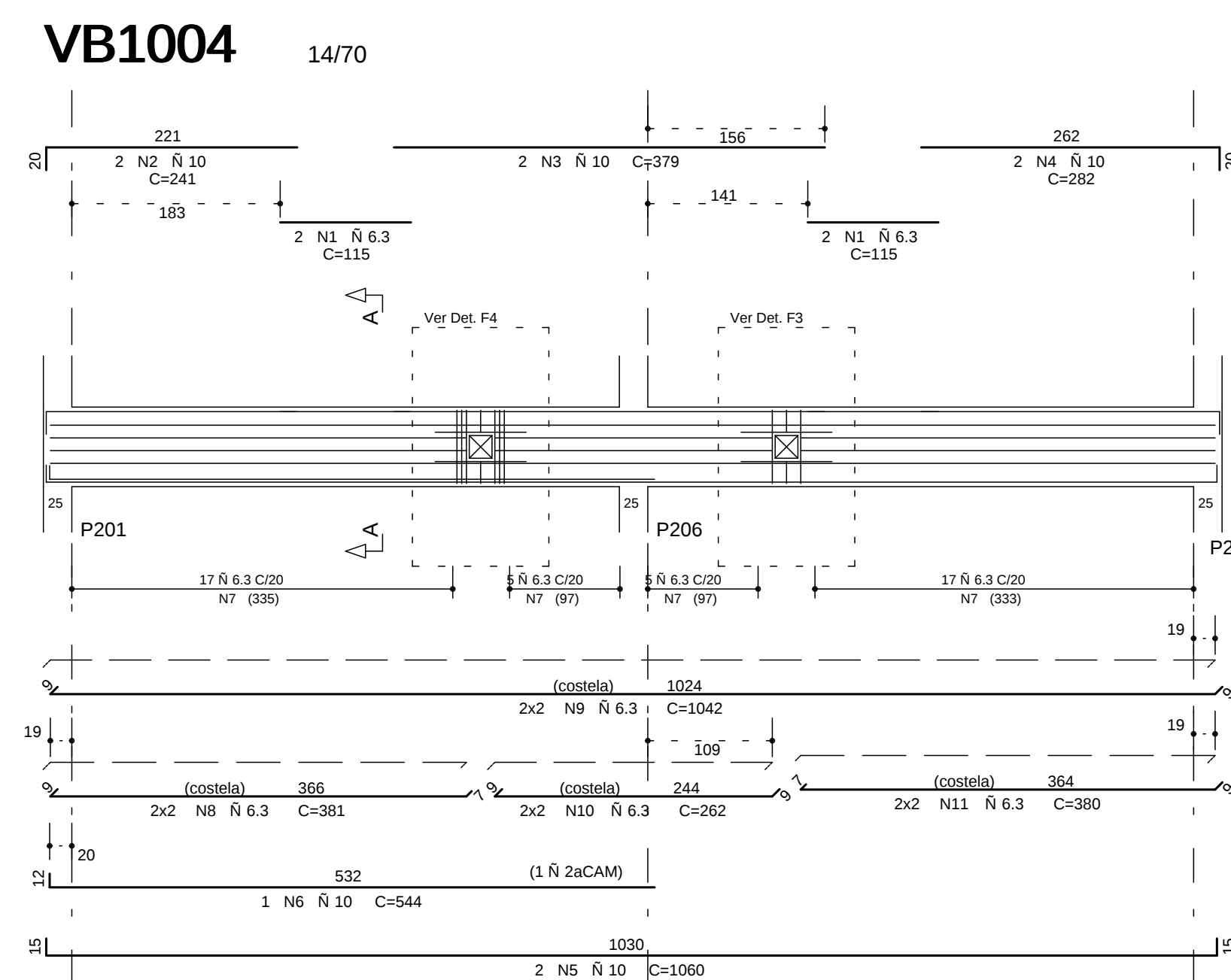
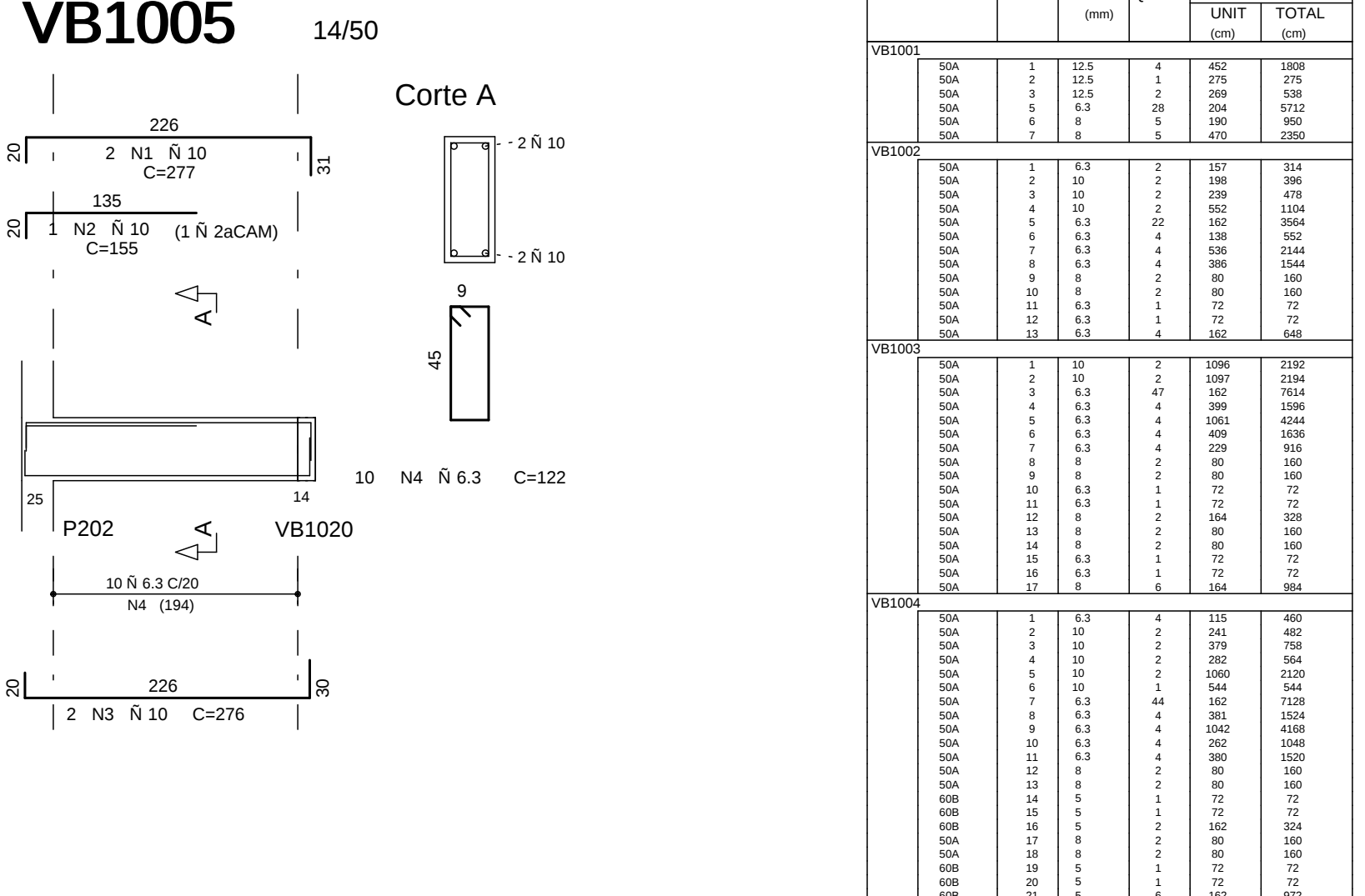
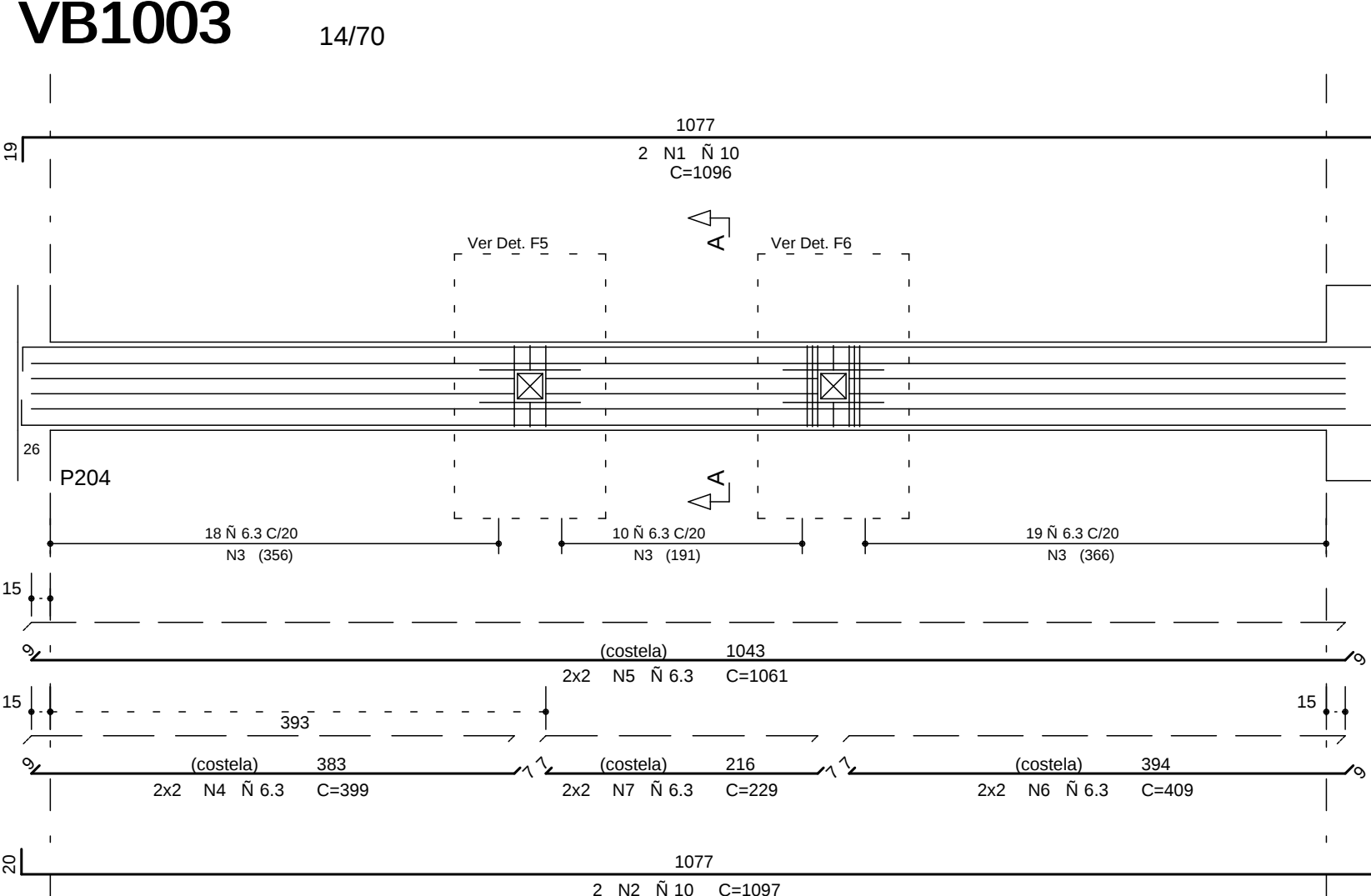
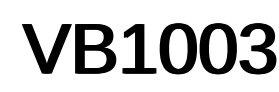
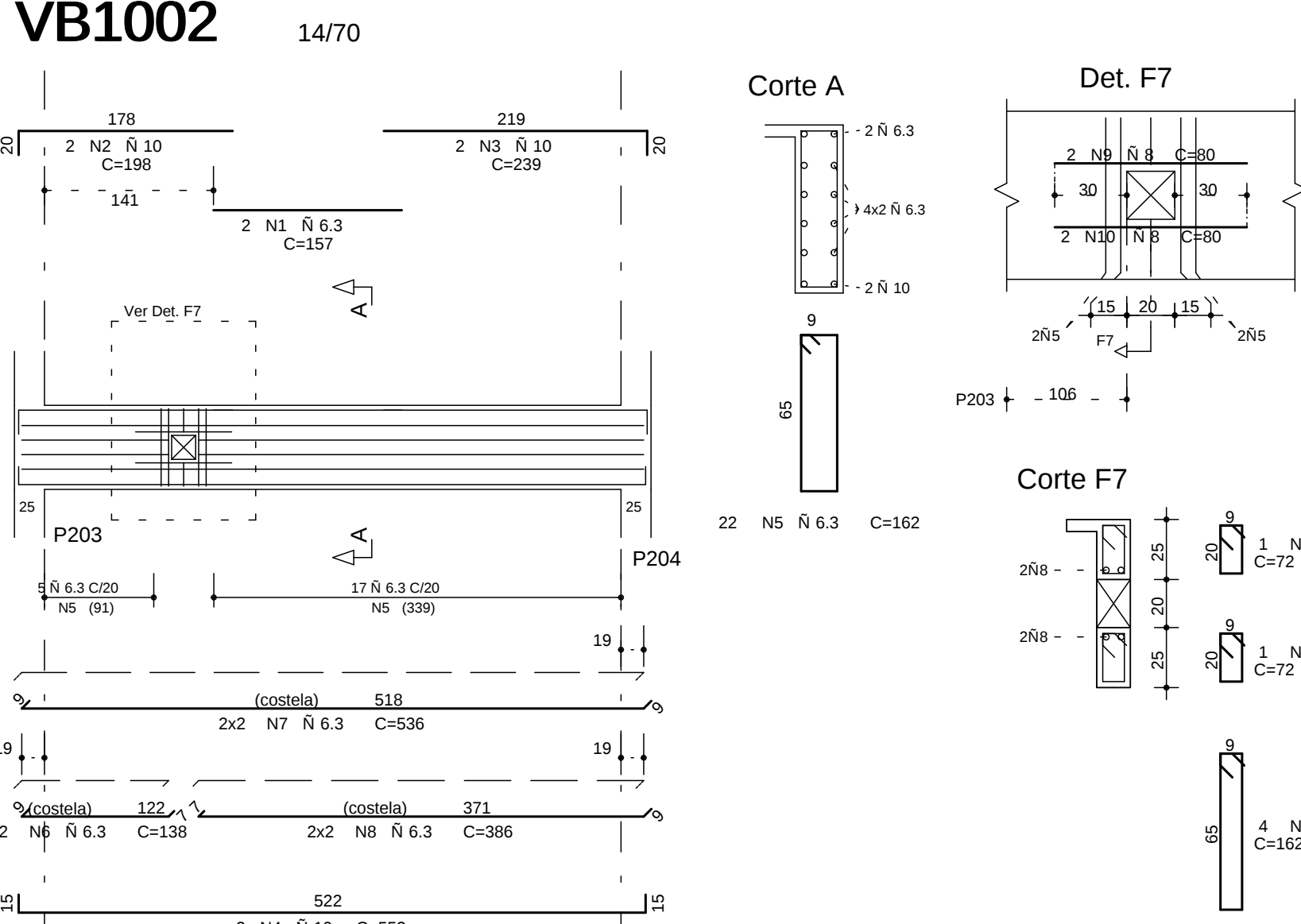
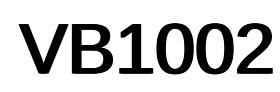
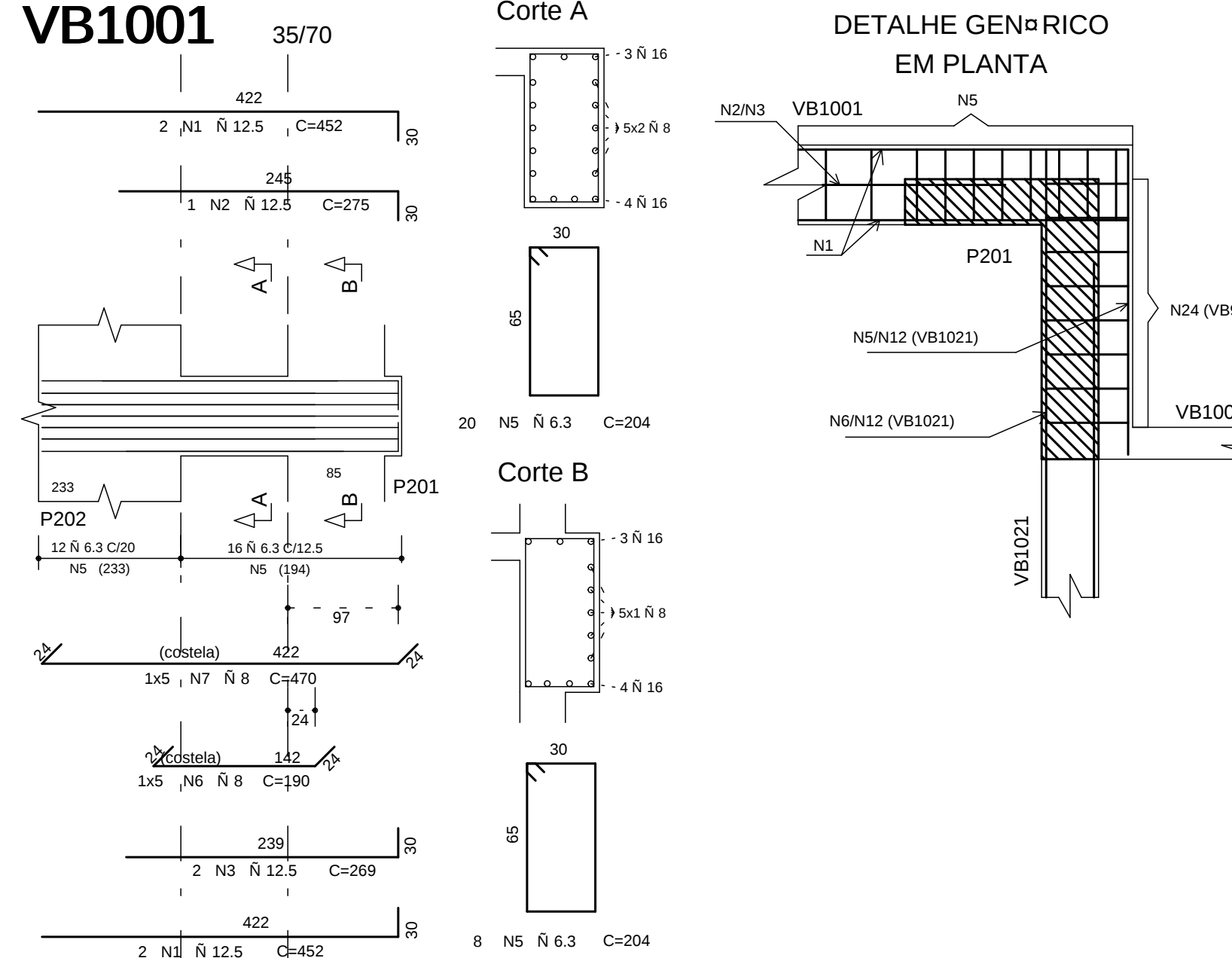
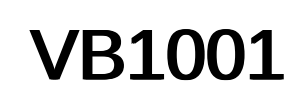




COBRIMENTO DA ARMADURA:

- LAJES = 2,0 cm
  - VIGAS E PILARES = 2,5 cm
  - BLOCOS, BALDRAMES E CONTENCOES (FACE EM CONTATO COM A TERRA) = 3,0 cm
2. ESSES COBRIMENTOS DEVERAO SER GARANTIDOS COM O USO DE ESPACADORES OU PASTELHAS.
- COBRIMENTOS ESPECIFICOS EM CONTRARIO AOS VALORES INDICADOS ACIMA, ESTAO INDICADOS NOS DESENHOS DE DETALHE.
- FORMAS DOS PAVIMENTOS.

## NORMAS UTILIZADAS

NBR-6118/2003 - PROJETO E EXECUCAO DE OBRAS DE CONCRETO ARMADO  
NBR-6120/1980 - CARGAS PARA O CALCULO DE ESTRUTURAS DE EDIFICACOES

## INDICE

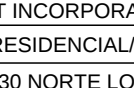
VB1001 A VB1016 E VB1018

FCK= 35 MPa

EC = 28 GPa

$$A/C = 0,65$$
(MODULO DE  
AOS 28 DIAS)

(FATOR AGUA CIMENTO)

|                                                                                                                                                                                                                                                                                                                                                       |                   |                                              |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------------------------|---------|
| 1                                                                                                                                                                                                                                                                                                                                                     | 21/08/2012        | NUMERACAO FINAL                              |         |
| 0                                                                                                                                                                                                                                                                                                                                                     | 06/09/2012        | EMISSAO INICIAL                              |         |
| REV.                                                                                                                                                                                                                                                                                                                                                  | DATA              | DESCRICAO                                    |         |
|  <div> <b>Simetria Engenharia</b><br/> <small>           16 AV. SANTANA, 40 - JARDIM N. DA P. LATA<br/>           BRASILIA - DF - CEP: 72200-040<br/>           FONE: (061) 3122-0001<br/>           e-mail: atendimento@simetria.org.br         </small> </div> |                   |                                              |         |
| <b>PROJETO ESTRUTURAL</b>                                                                                                                                                                                                                                                                                                                             |                   |                                              |         |
| CLIENTE                                                                                                                                                                                                                                                                                                                                               |                   | GENT INCORPORADORA LTDA                      |         |
| OBRA                                                                                                                                                                                                                                                                                                                                                  |                   | ED. RESIDENCIAL COMPLETO, PANHEIRAS          |         |
| ENDEREÇO LOCAL                                                                                                                                                                                                                                                                                                                                        |                   | RUA JOAQUIM DE VASCONCELOS - AGUAS CLARAS DF |         |
| CNPJ/CPF                                                                                                                                                                                                                                                                                                                                              |                   | 00.000.000/0000000                           |         |
| DESCRIÇÃO                                                                                                                                                                                                                                                                                                                                             |                   | DESCRIÇÃO NO                                 |         |
| ARMACAO DAS VOGES PIS 140 PAVIMENTO                                                                                                                                                                                                                                                                                                                   |                   | BL2                                          |         |
| TORRE 2 - JUNTA B (1302)                                                                                                                                                                                                                                                                                                                              |                   | 071-085                                      |         |
| DESENHISTA                                                                                                                                                                                                                                                                                                                                            | DATA              | ESCALA                                       | UNIDADE |
| EDUARDO MULLER                                                                                                                                                                                                                                                                                                                                        | 06/09/2012        | 1:50                                         | CM      |
| PROJETO/PLT                                                                                                                                                                                                                                                                                                                                           | NO PROJ. SIMETRIA |                                              | ATB     |
| 071-EST-BL2                                                                                                                                                                                                                                                                                                                                           | 071-085           | 401                                          | VIG.PLT |
| PROJETO/TAO                                                                                                                                                                                                                                                                                                                                           |                   | RESPONSÁVEL TECNICO                          |         |
| _____                                                                                                                                                                                                                                                                                                                                                 |                   | _____                                        |         |
| RESPONSÁVEL TECNICO PELO PROJETO ESTRUTURAL                                                                                                                                                                                                                                                                                                           |                   |                                              |         |
| SIMETRIA ENGENHARIA E PROJETOS DE LTDA<br>CREA-27228/DF                                                                                                                                                                                                                                                                                               |                   |                                              |         |