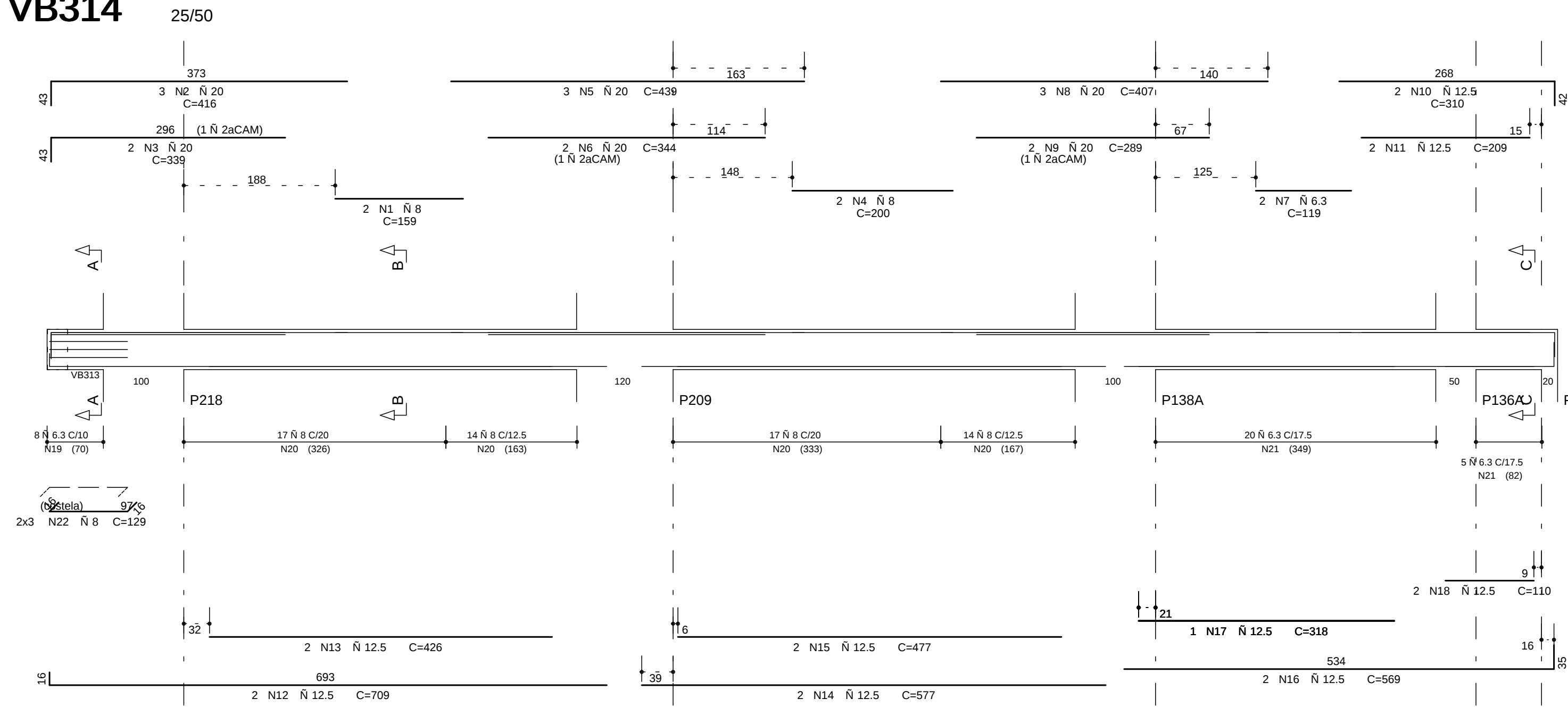
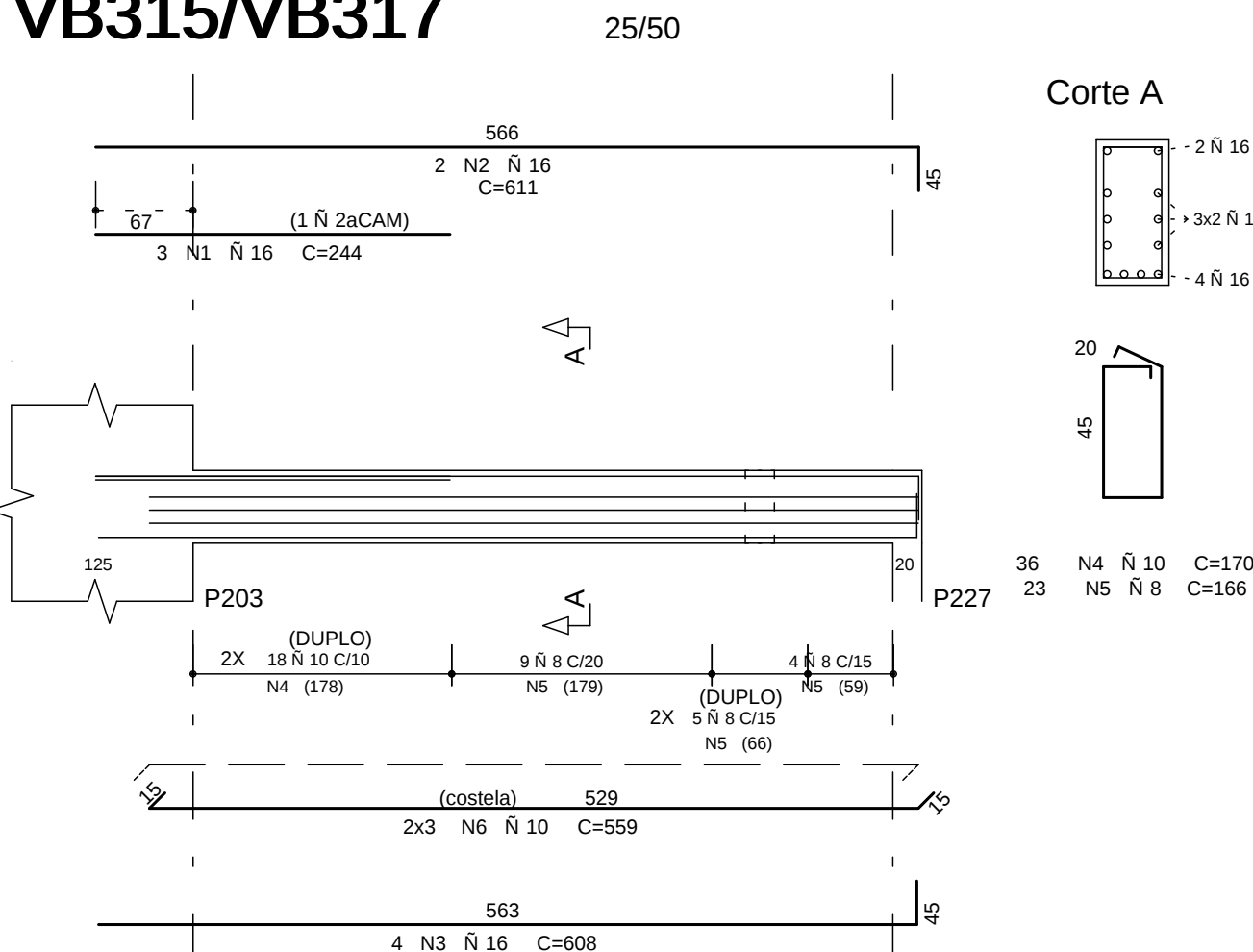


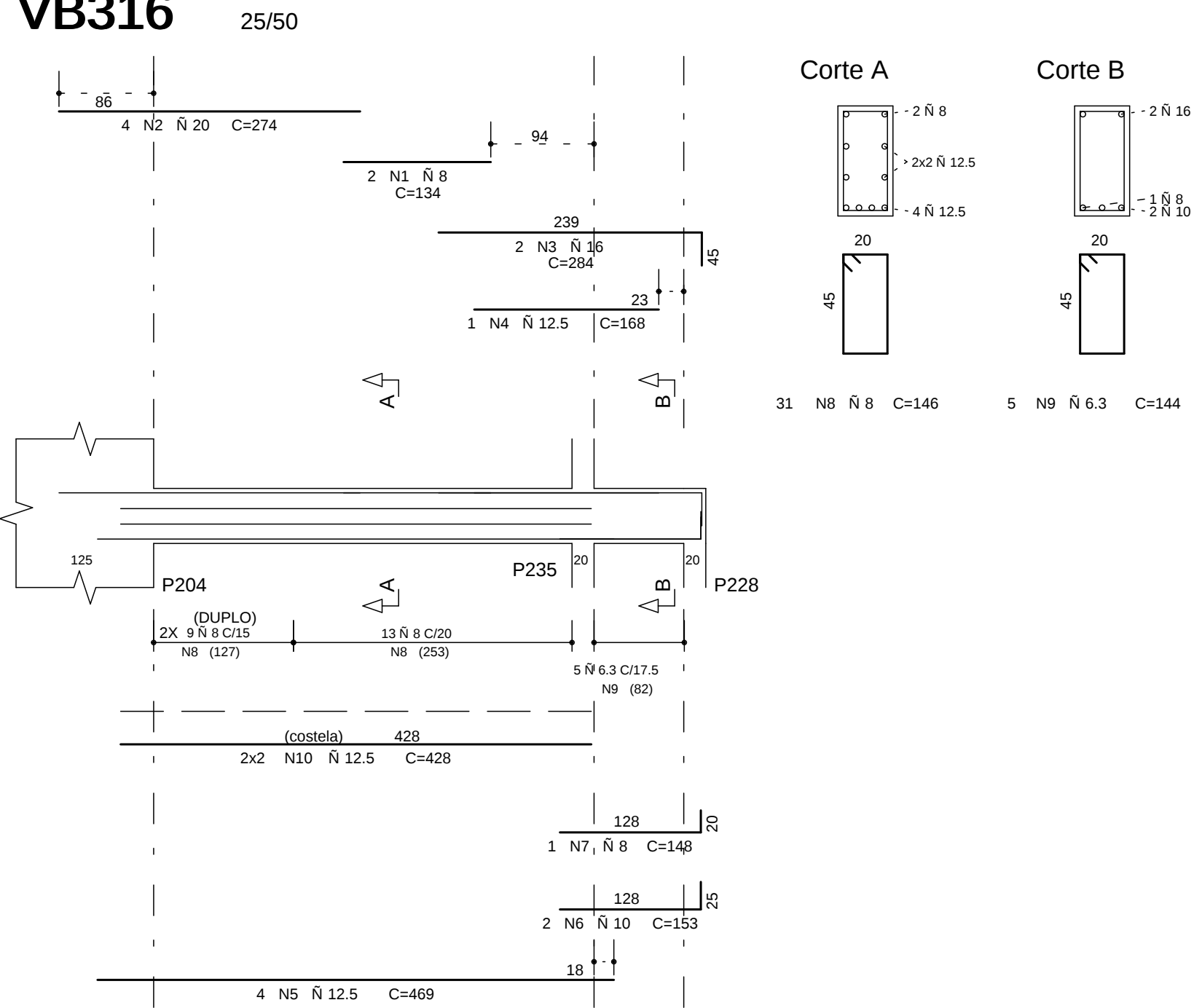
VB314



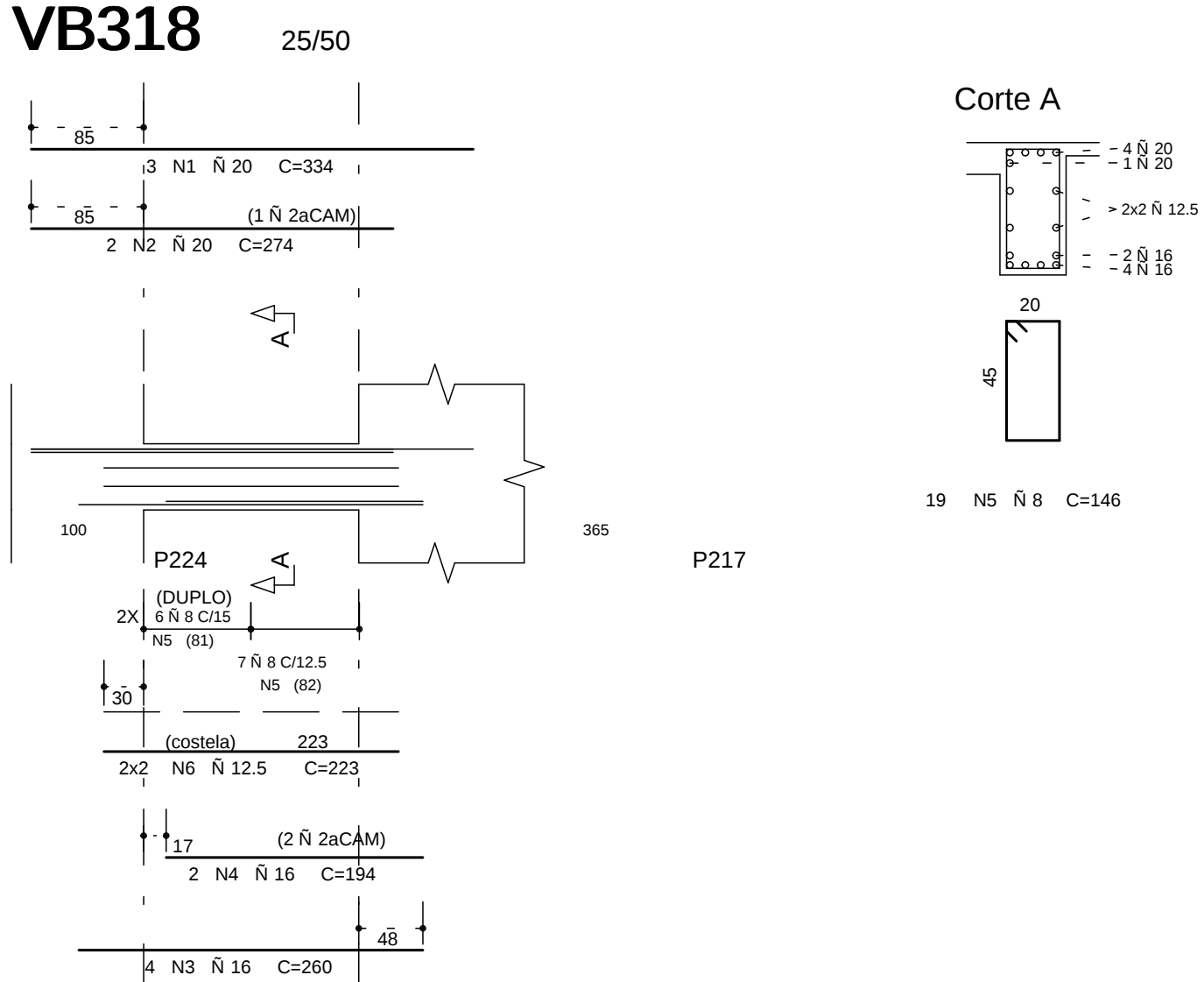
VB315/VB317



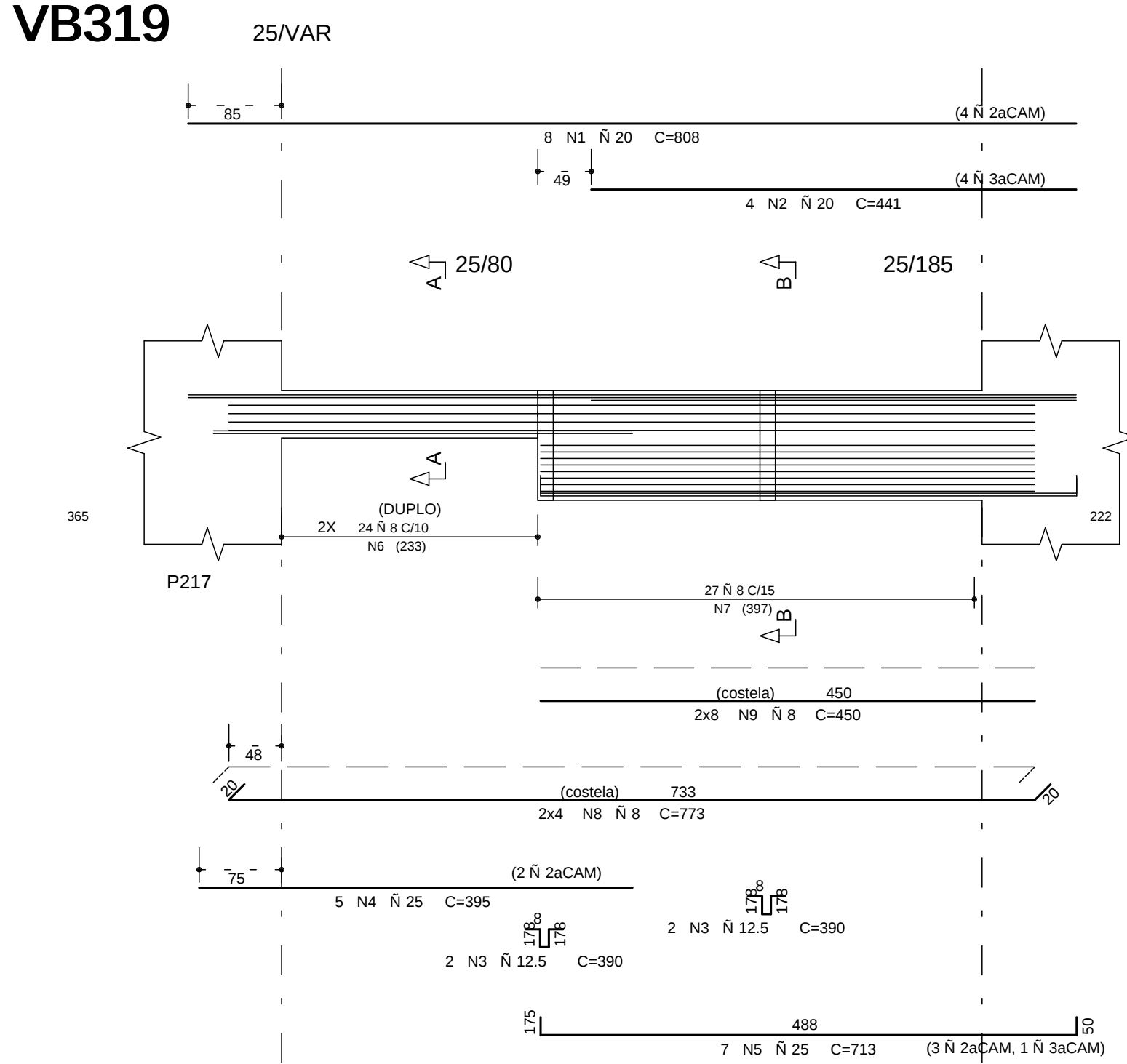
VB316



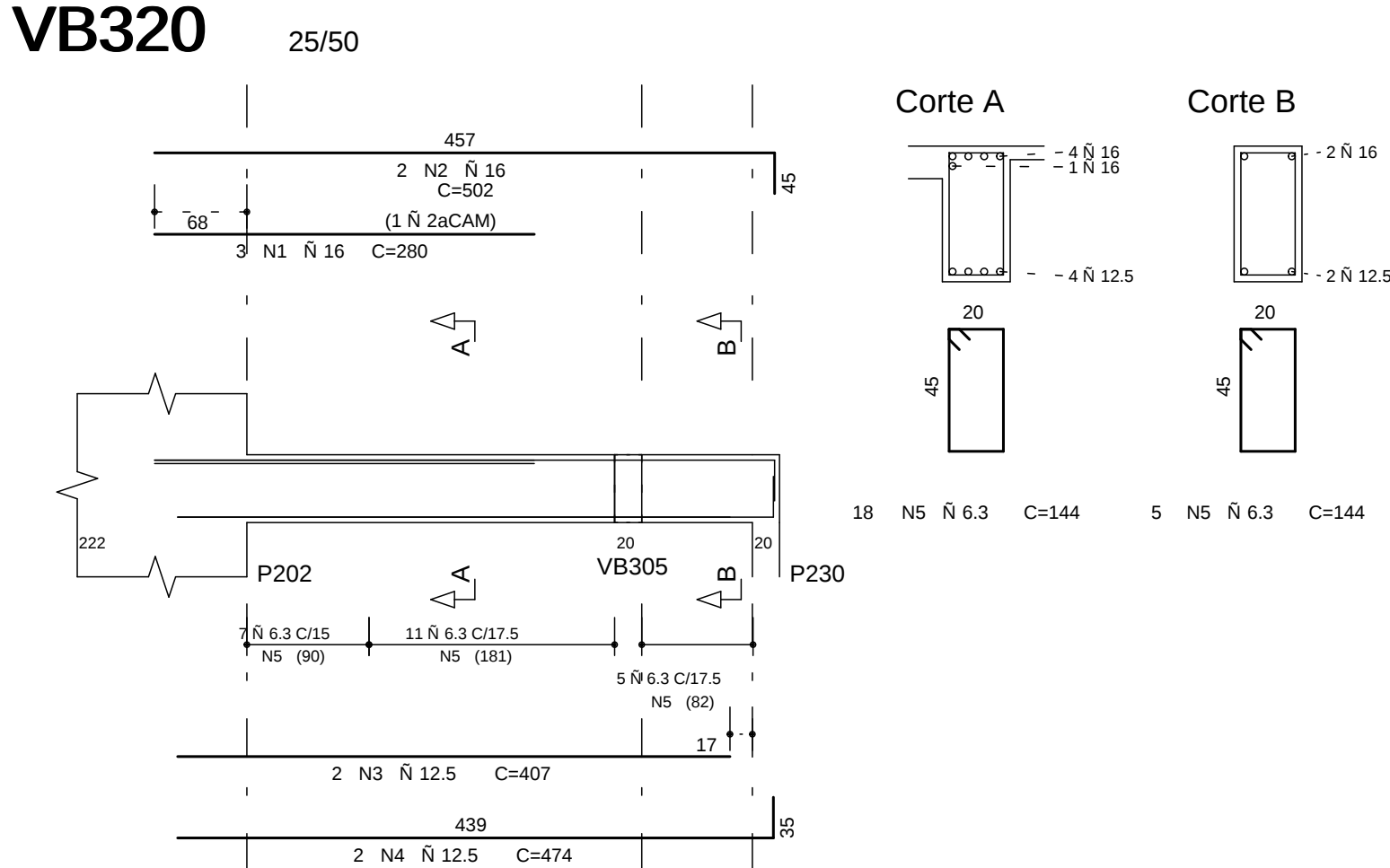
VB318



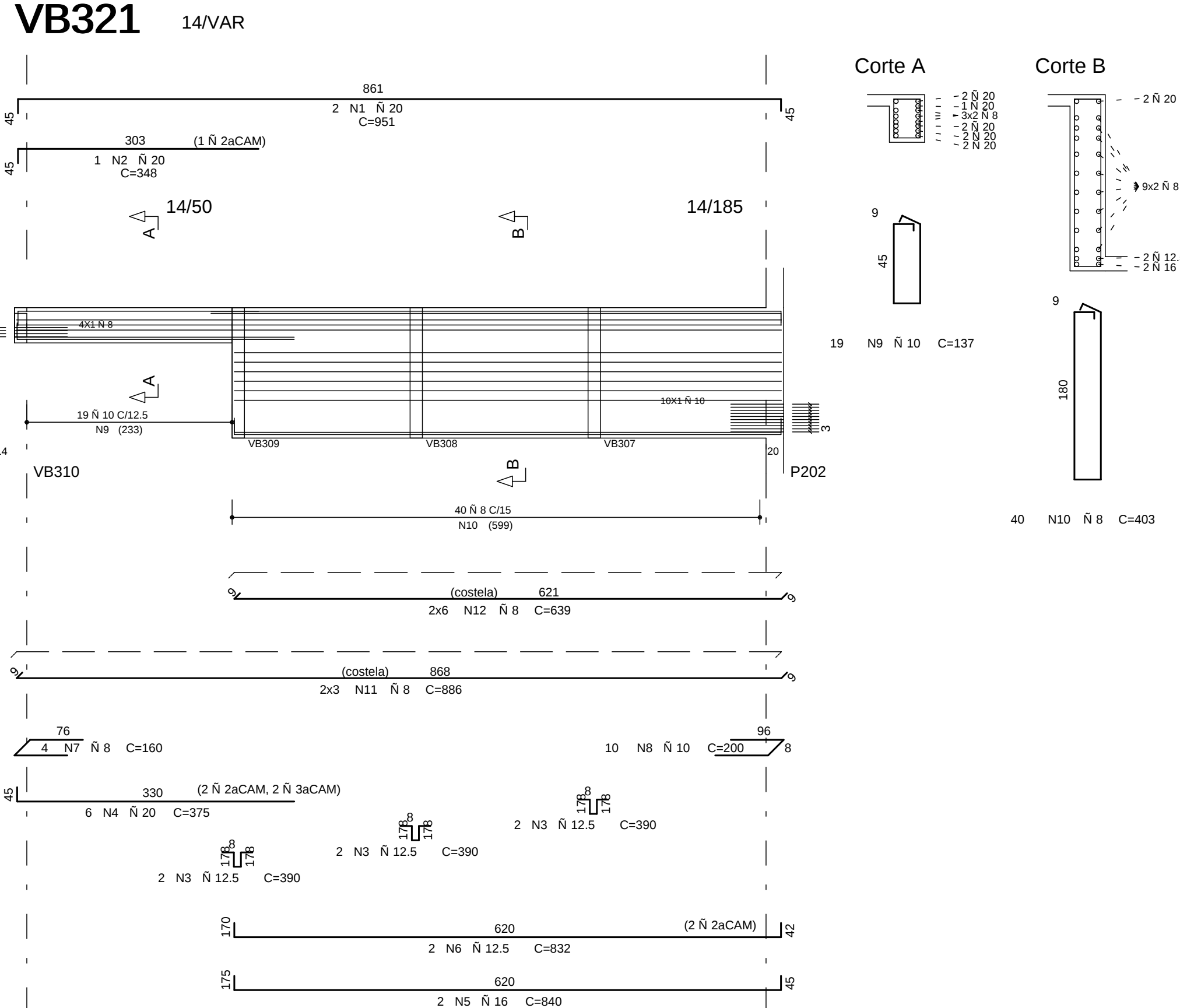
VB319



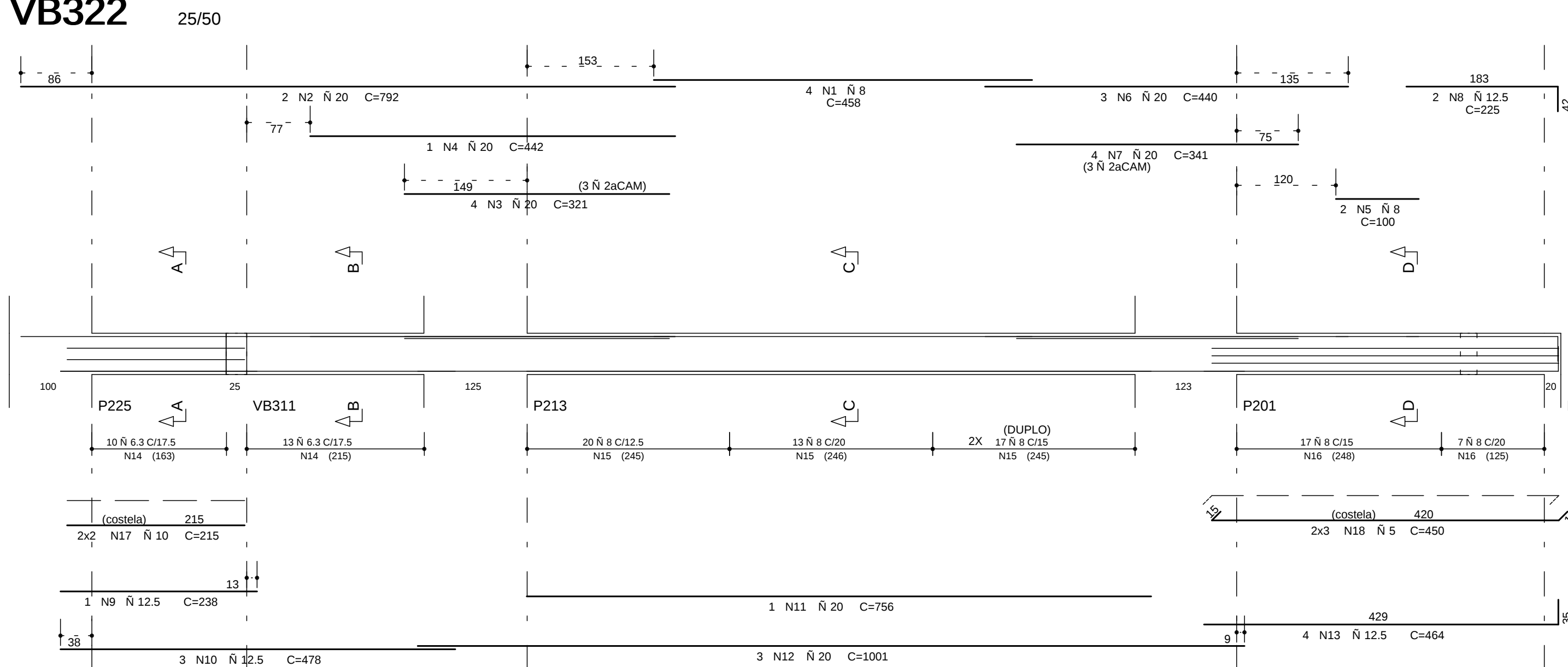
VB320



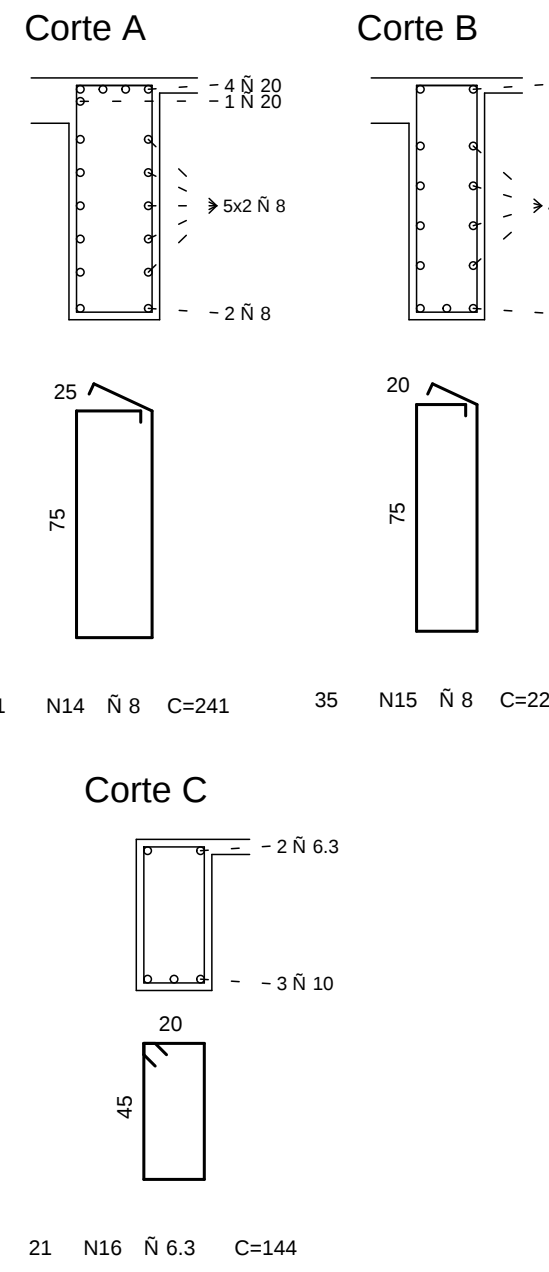
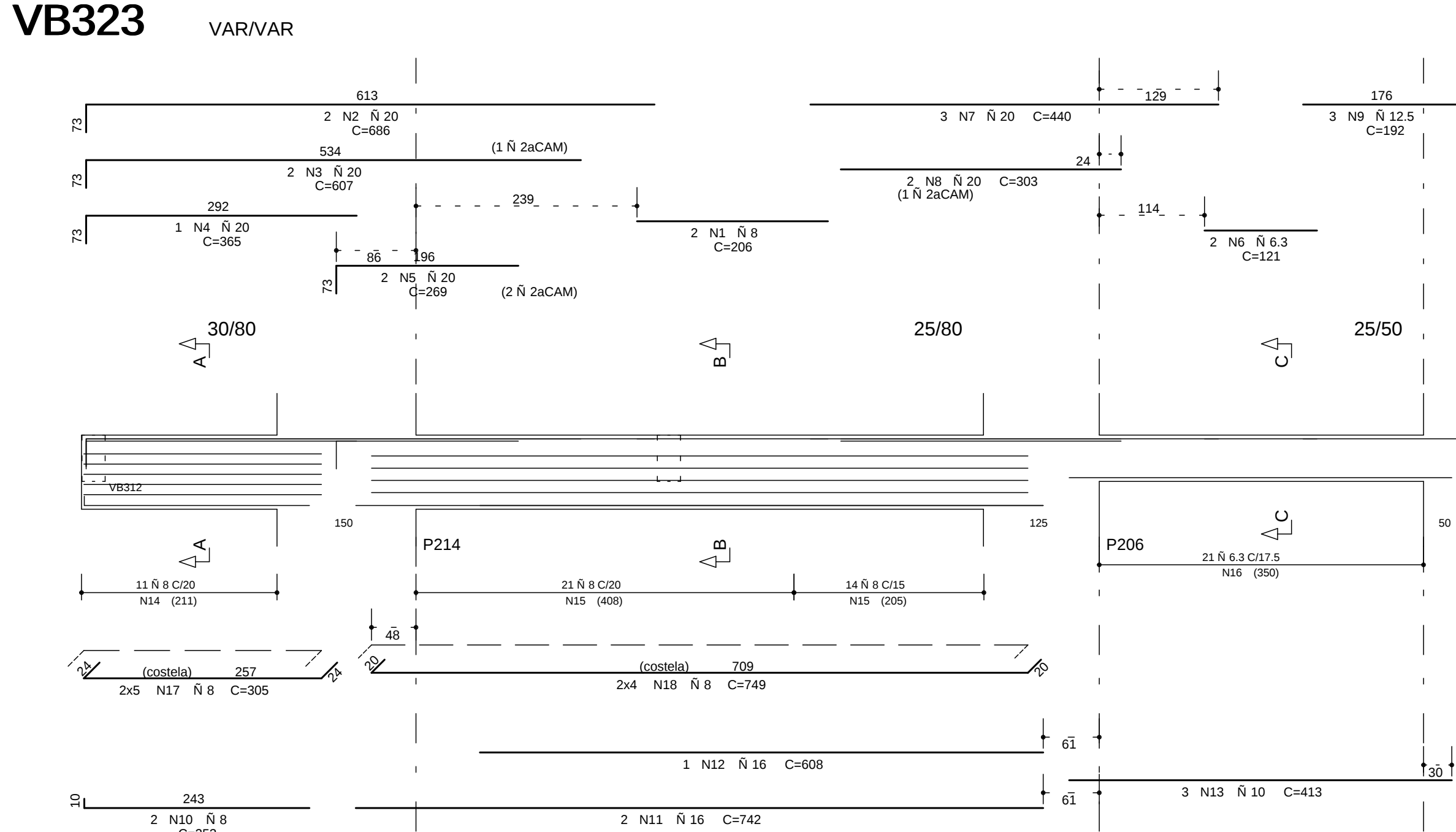
VB321



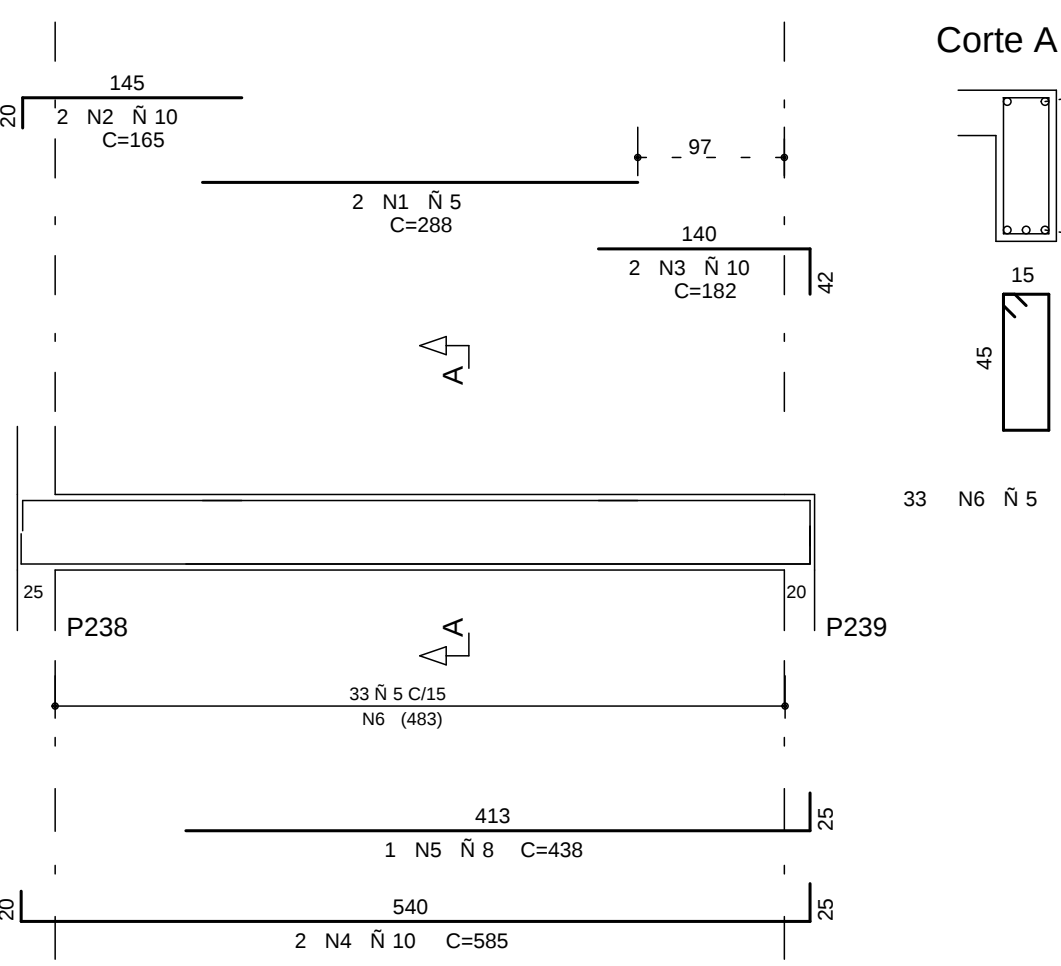
VB322



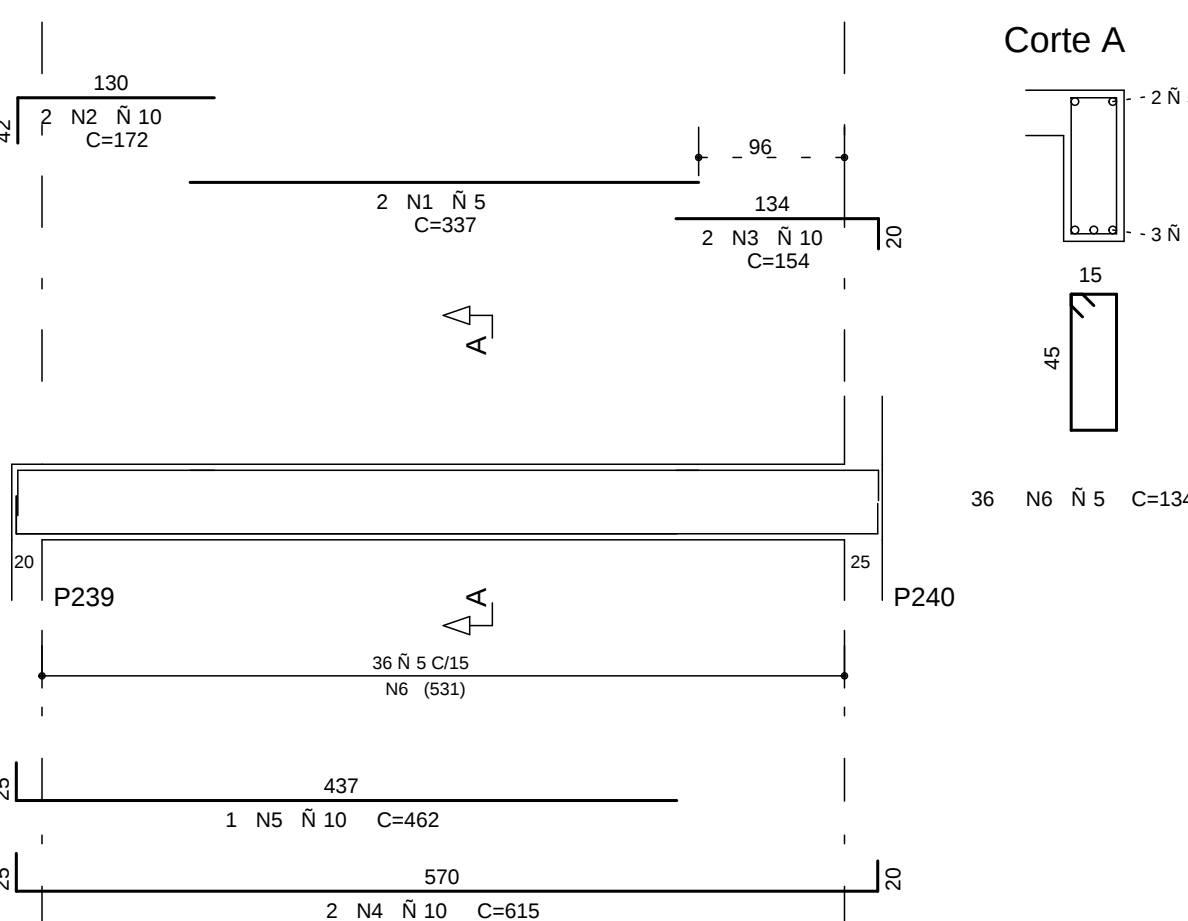
VB323



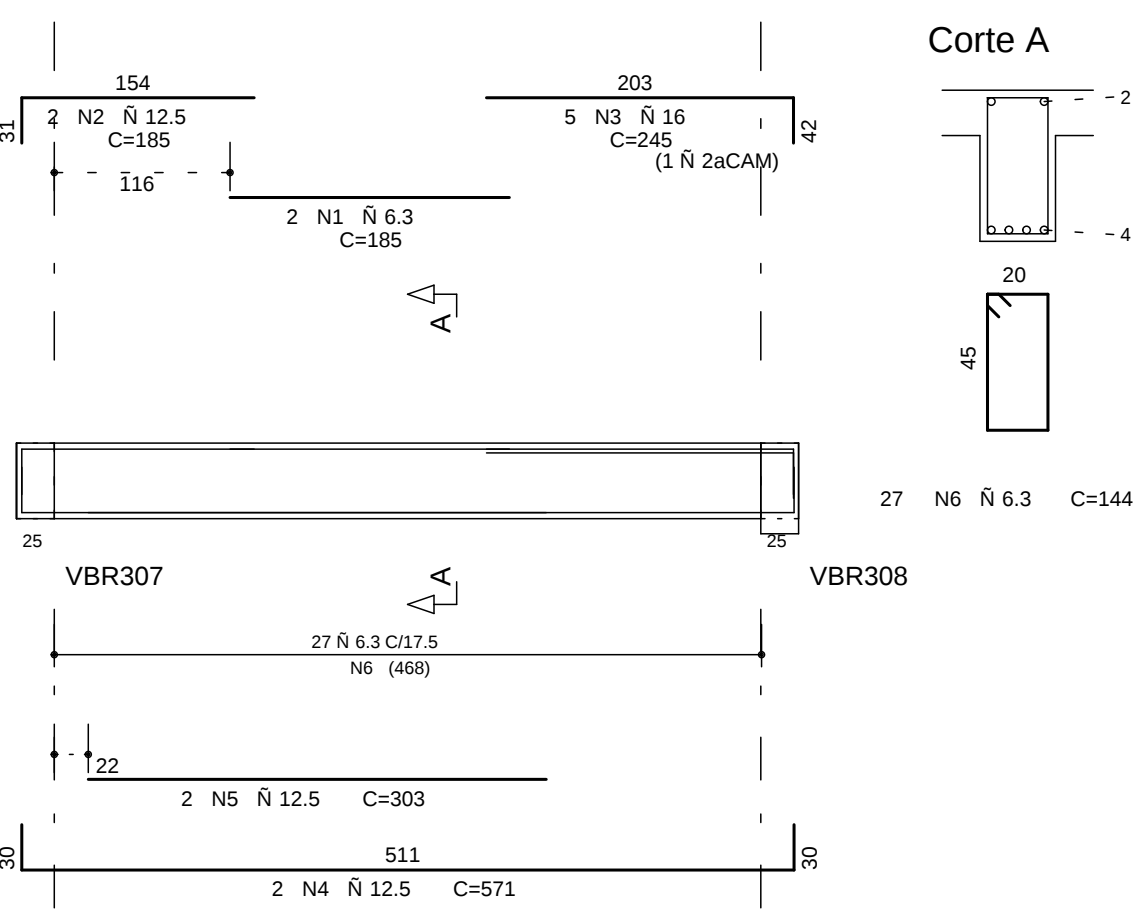
VBR301



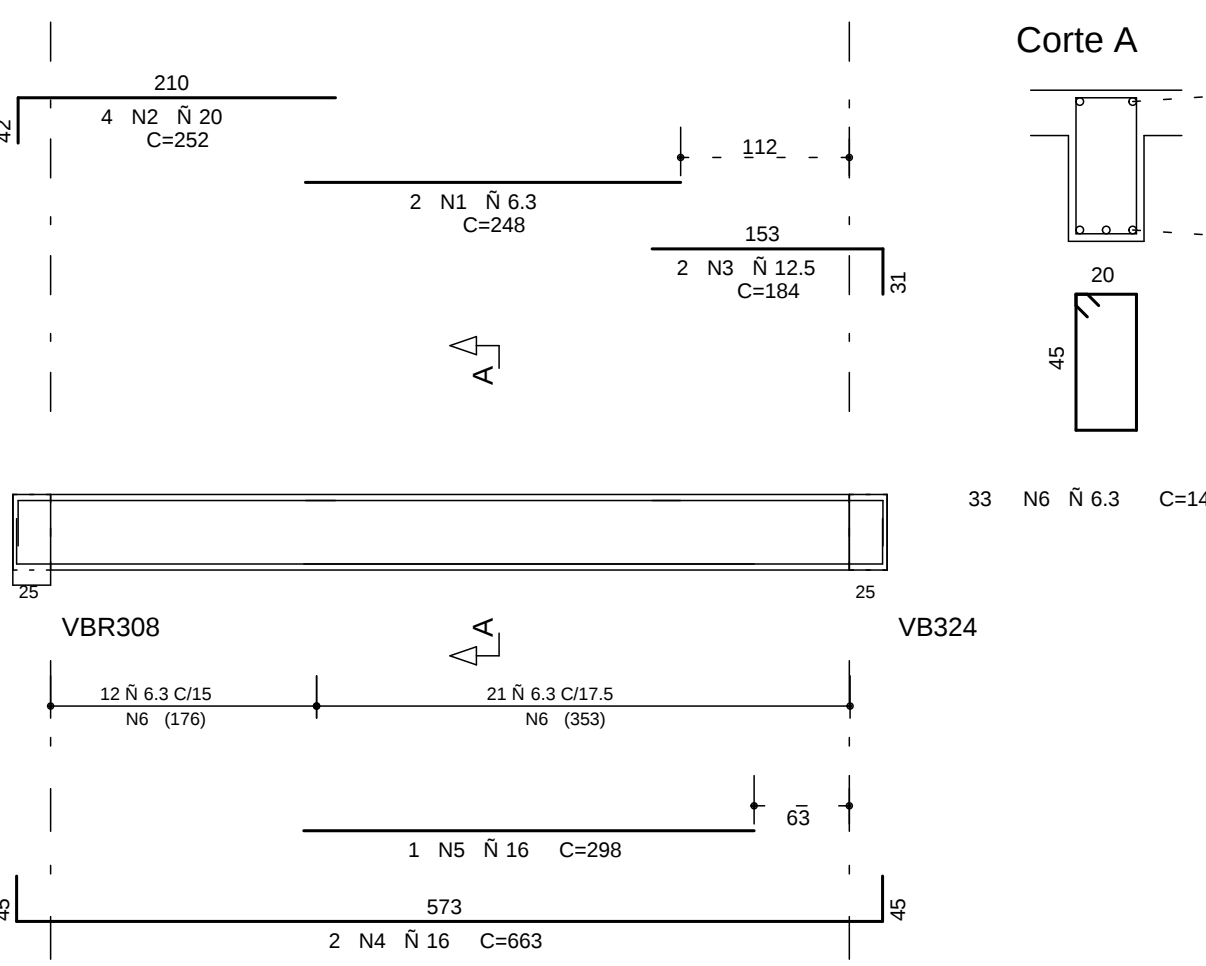
VBR302



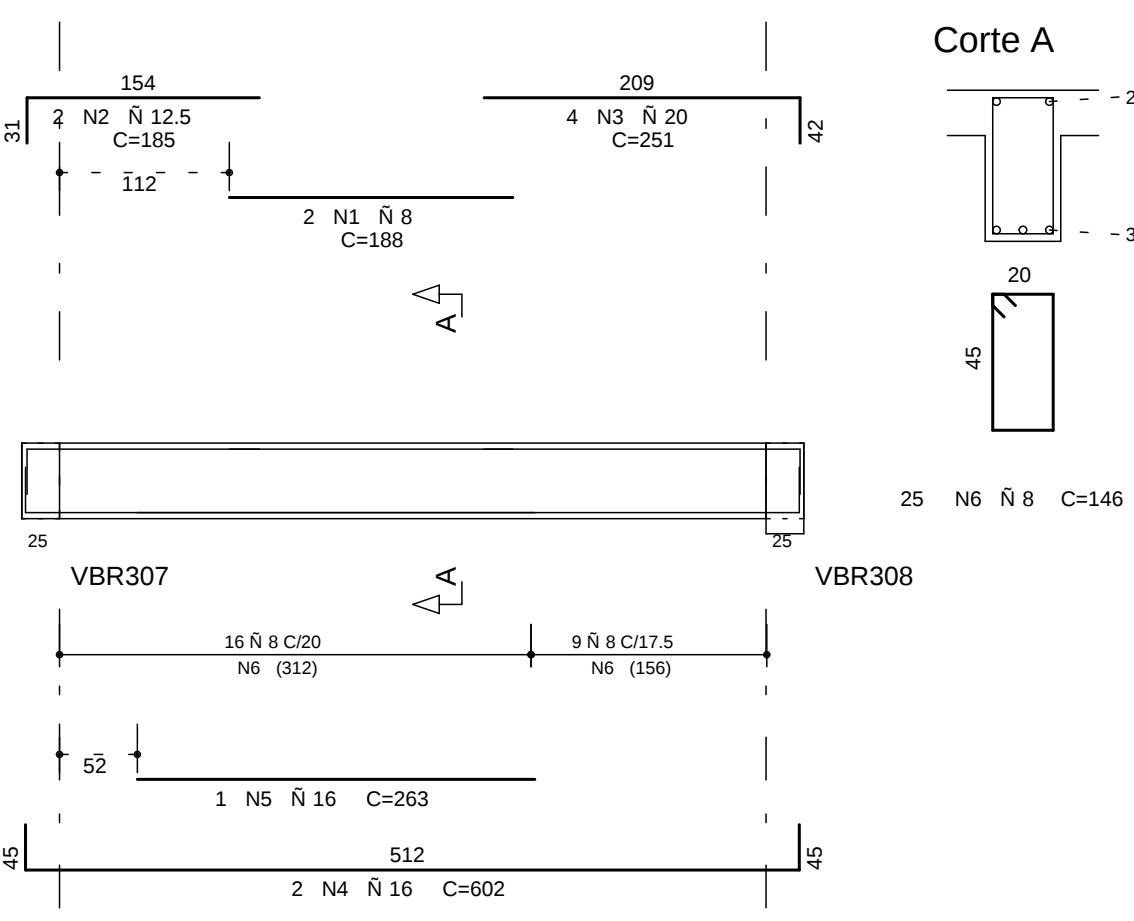
VBR303



VBR304



VBR305



ALQ	POS	BIT	QUANT	COMPIMENTO	TOTAL
VB314	1	1	1	1	1
VB315	1	1	1	1	1
VB316	1	1	1	1	1
VB318	1	1	1	1	1
VB319	1	1	1	1	1
VB320	1	1	1	1	1
VB321	1	1	1	1	1
VB322	1	1	1	1	1
VB323	1	1	1	1	1
VBR301	1	1	1	1	1
VBR302	1	1	1	1	1
VBR303	1	1	1	1	1
VBR304	1	1	1	1	1
VBR305	1	1	1	1	1

ALQ	RESUMO ALQ CA 90-160	PESO
VB314	1	1
VB315	1	1
VB316	1	1
VB318	1	1
VB319	1	1
VB320	1	1
VB321	1	1
VB322	1	1
VB323	1	1
VBR301	1	1
VBR302	1	1
VBR303	1	1
VBR304	1	1
VBR305	1	1

COBRIMENTO DA ARMADURA:

- LARGES = 3.0 cm
- VIGAS E FILARES = 2.5 cm
- BLOCOS, BALDRAMES E CONTENEDORES (FACE EM CONTATO COM A TERRA) = 3.0 cm

1. ESSES COBRIMENTOS DEVERÃO SER GARANTIDOS COM O USO DE ESPARDAÇOS OU PASTILHAS.

COBRIMENTOS ESPECÍFICOS EM CONTRÁRIO AOS VALORES INDICADOS ABAIXO, ESTÃO INDICADOS NOS DESENHOS DE 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:

VB314 A VB323 e VBR301 A VBR305

FCK= 35 MPa

EC = 28 GPa (MODULO DE ELASTICIDADE SECANTE AOS 28 DIAS).

A/C = 0,65 (FATOR AGUA CIMENTO)

1	21/08/2014	NUMERACAO FINAL	
0	02/04/2012	EMISSAO INICIAL	
REV	DATA	DESCRICAO	
 Simetria Engenharia GR. QUATRO - AV. N. S. DA S. R. 101, 100 BRASILIA/DF - CEP: 72060-000 FONE: (0800) 100 100 WWW.SIMETRIA-ENG.PR			
PROJETO ESTRUTURAL			
CLIENTE:	GENT INCORPORADORA LTDA.		
OBRA:	ED. RESIDENCIAL/COMERCIAL PANEIRAS		Nº OBRA: XXX
ENGENHEIRO OBRA:	RUA 30 NORTE LOTE 03 - RUA DAS PANEIRAS - AGUAS CLARAS DE		
DESCRICAO:	ARMACAO DAS VIGAS PISO DO TERREO TORRE 2 - JUNTA B (02/03)		
DESENHISTA:	DATA:	ESCALA:	UNIDADE:
TSQ'S GUSTAVO	02/04/2012	1:50	CM
PROJETO Nº:	038-005 - R01 - VIG.PLT		Nº PROJ. SIMETRIA 478
PROPRIETARIO:	RESPONSÁVEL TÉCNICO		
RESPONSÁVEL TÉCNICO PELO PROJETO ESTRUTURAL			
SIMETRIA ENGENHARIA E PROJETOS S/C LTDA			
CRIA 3128P			