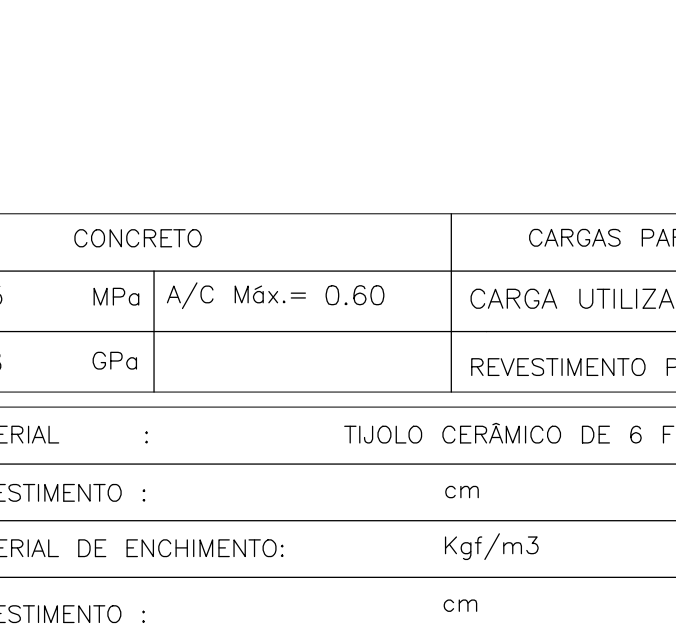
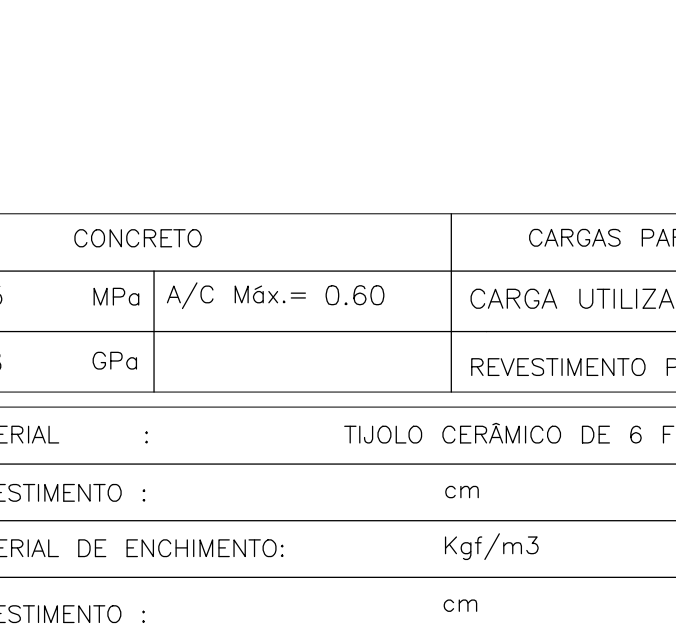
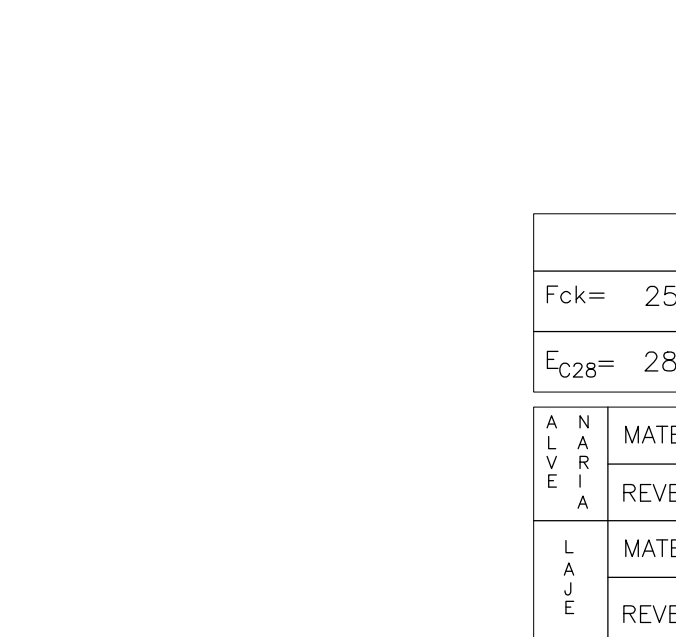
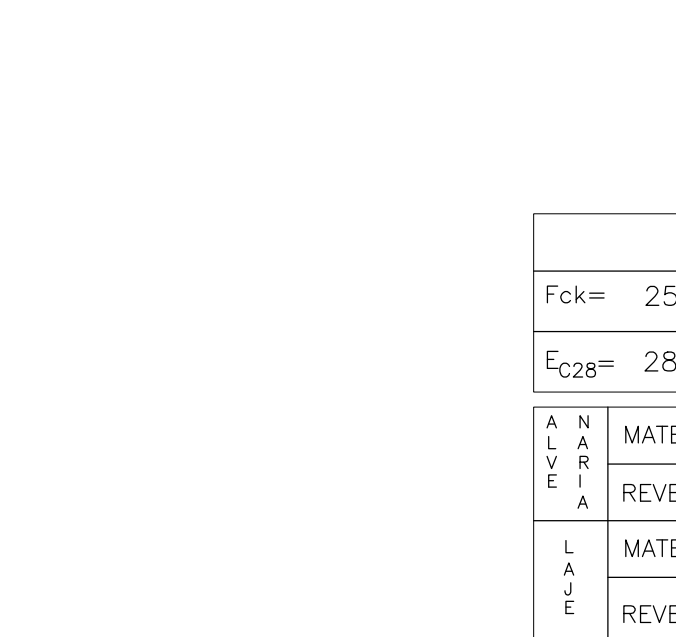
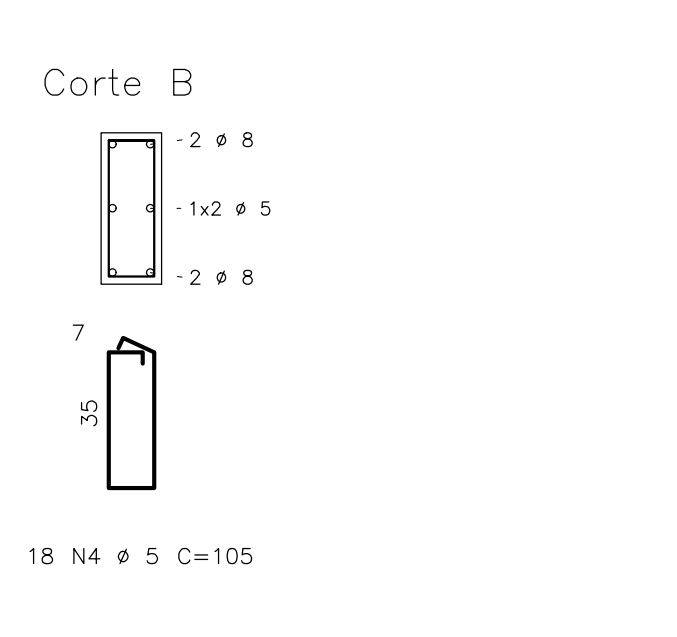
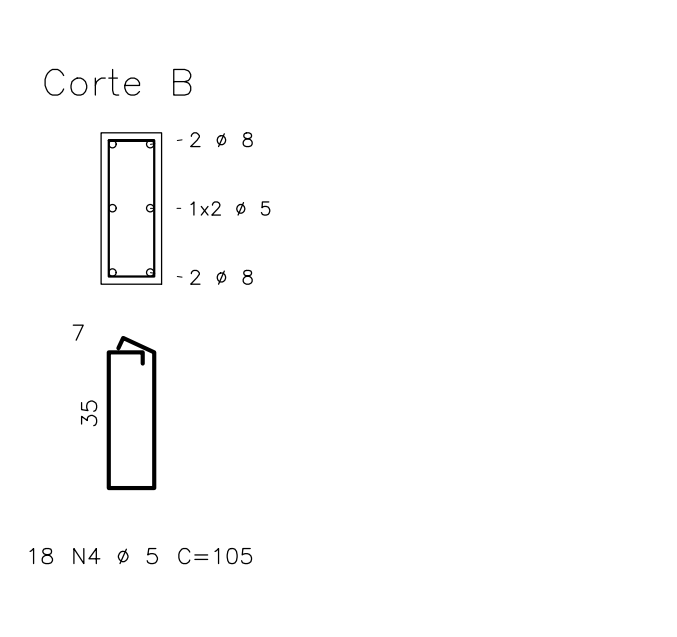
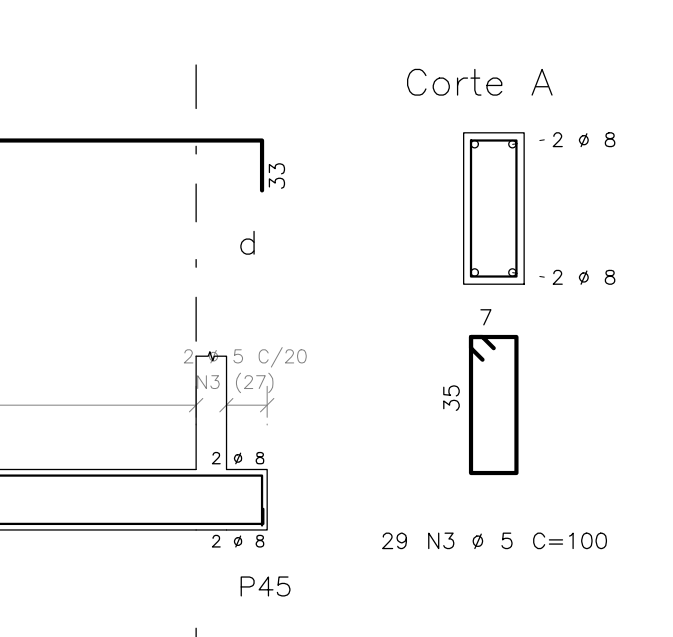
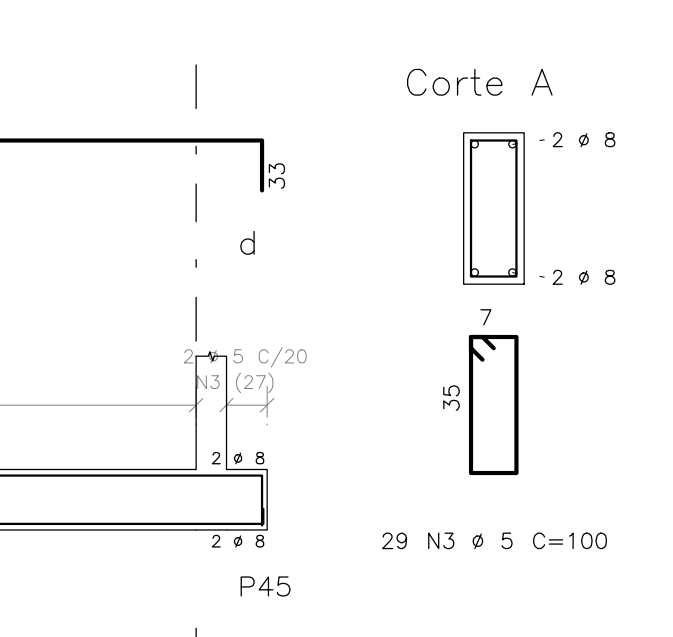
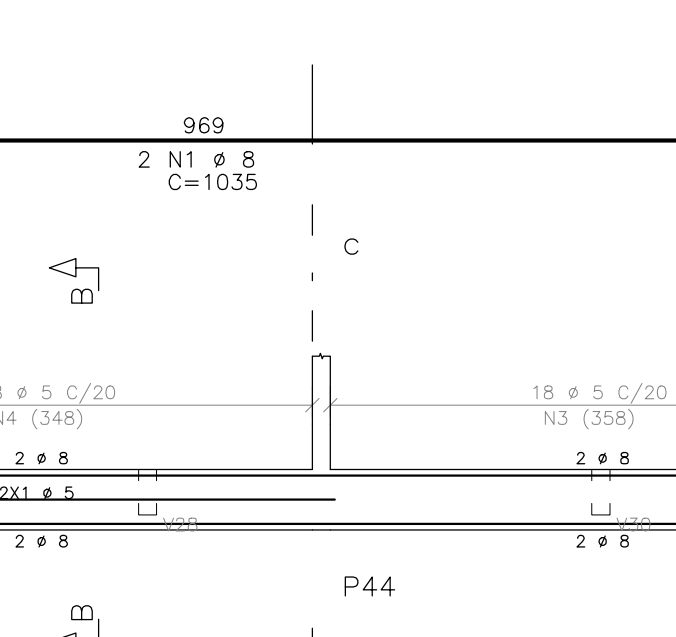
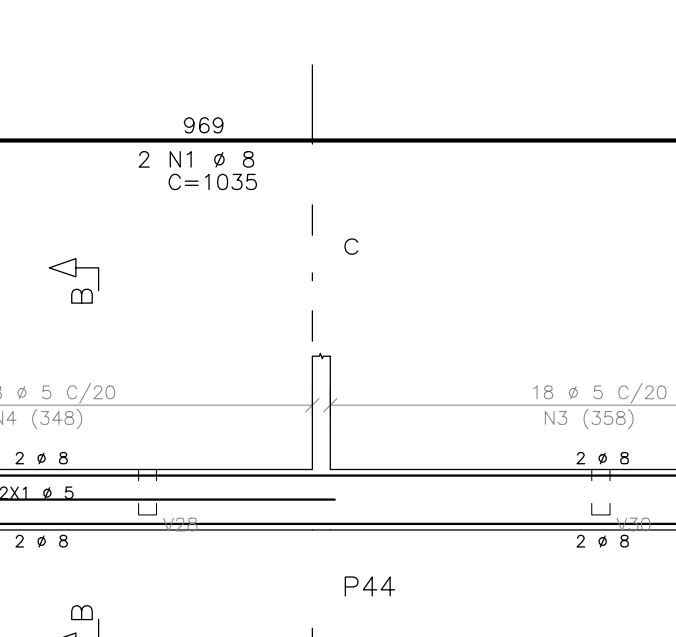
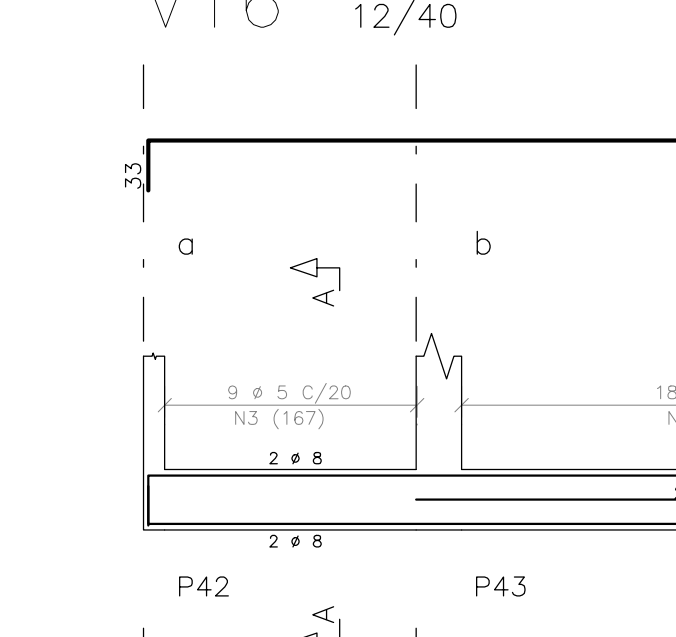
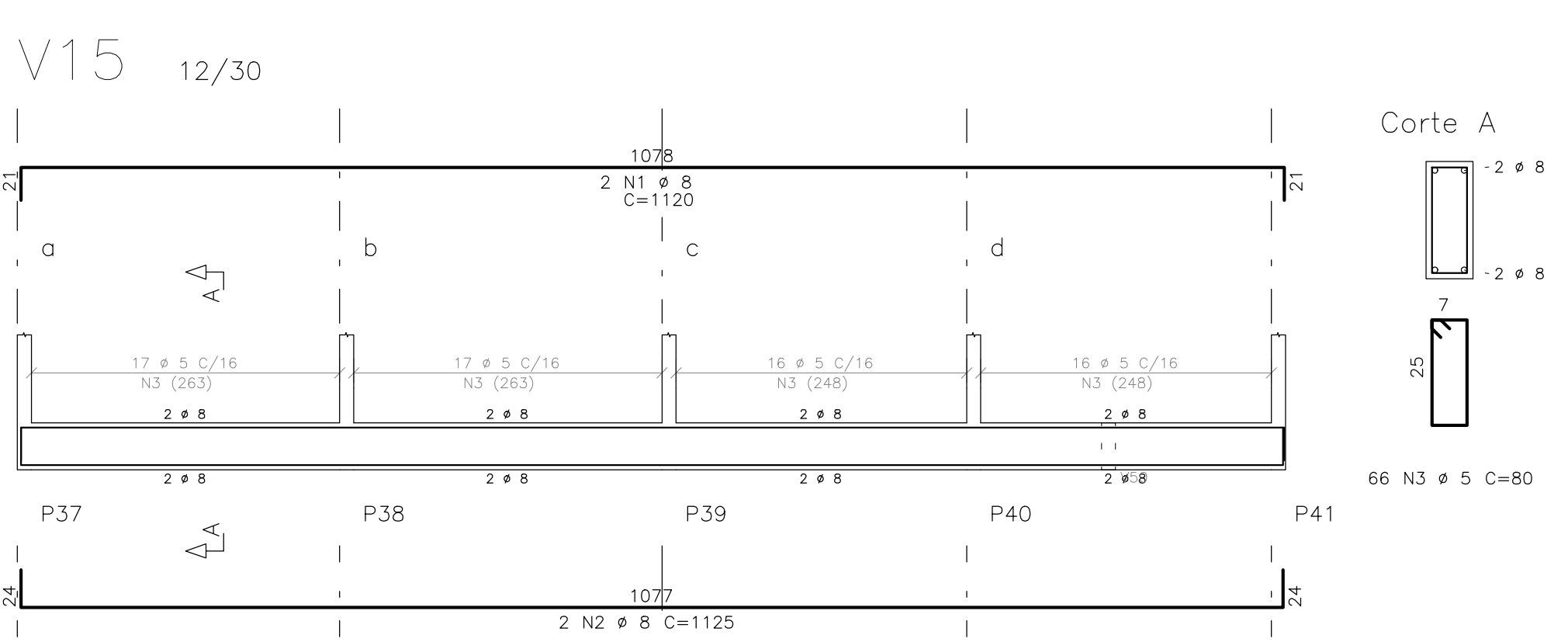
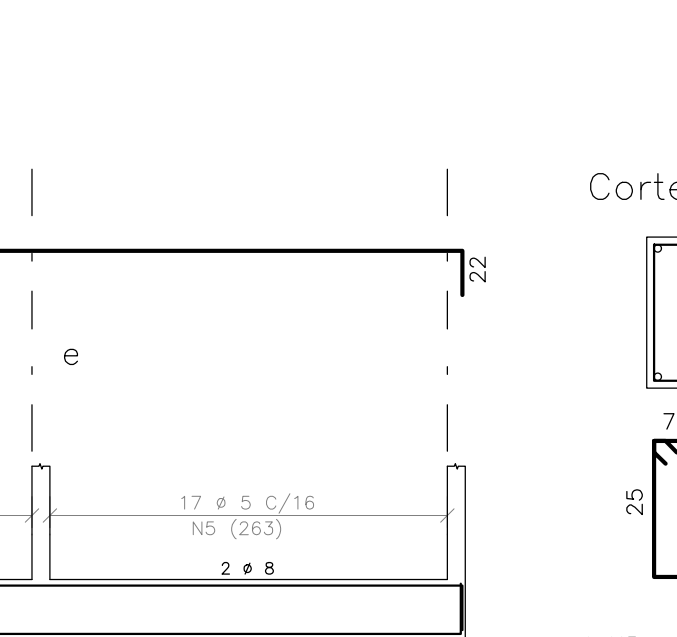
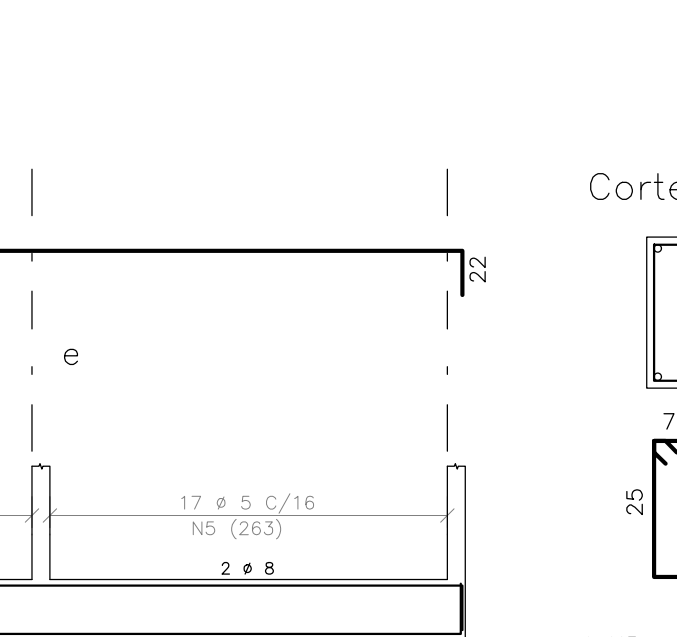
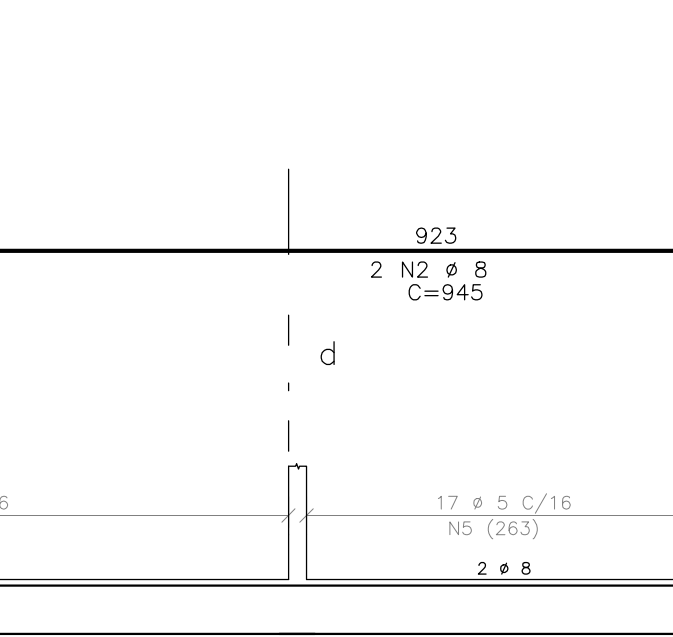
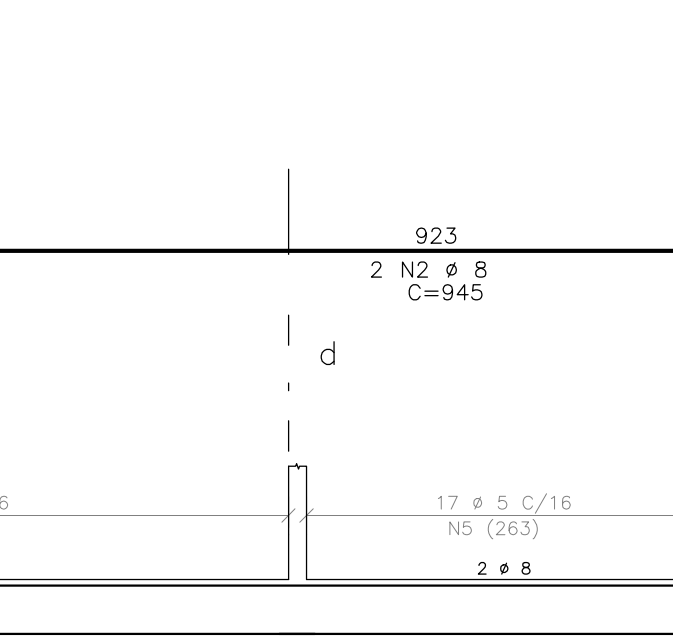
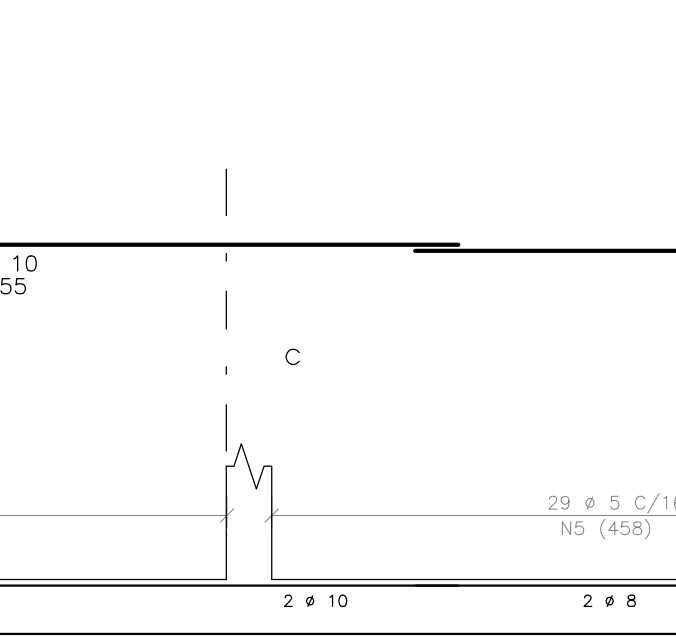
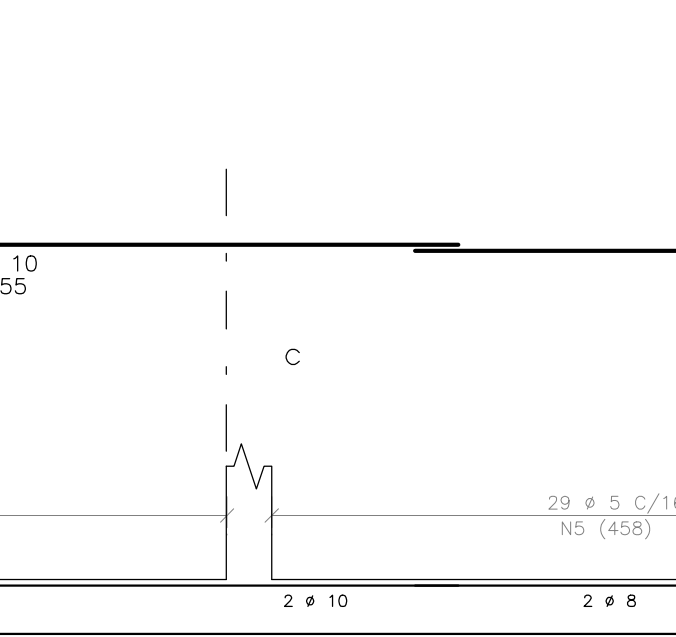
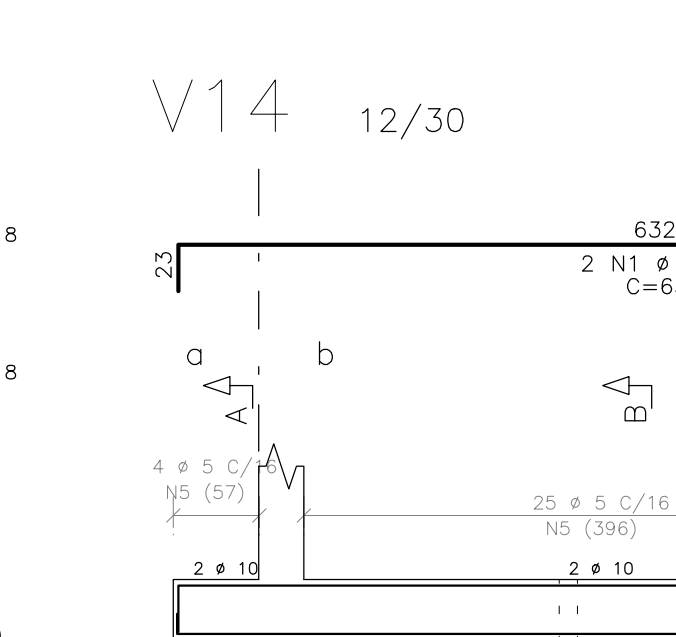
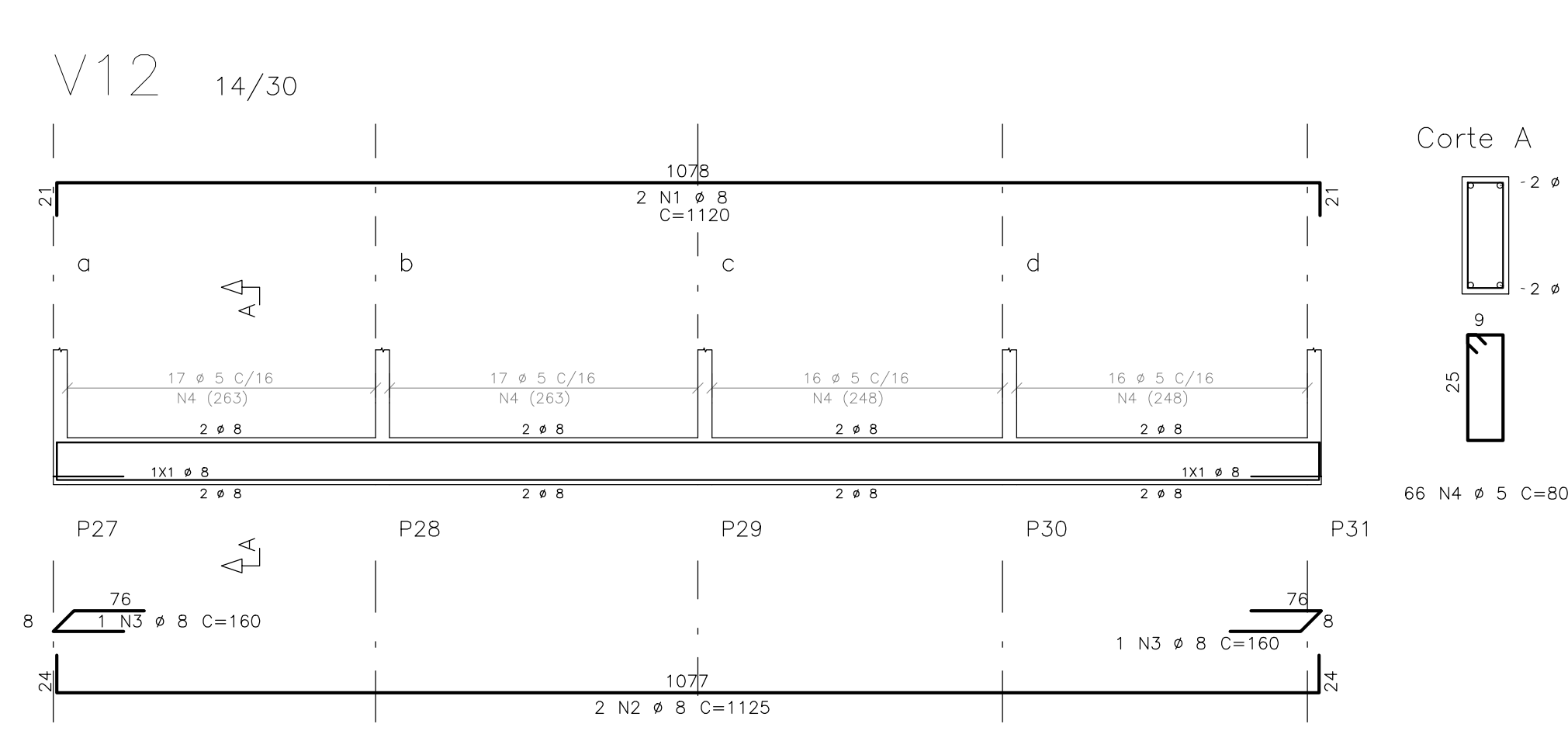
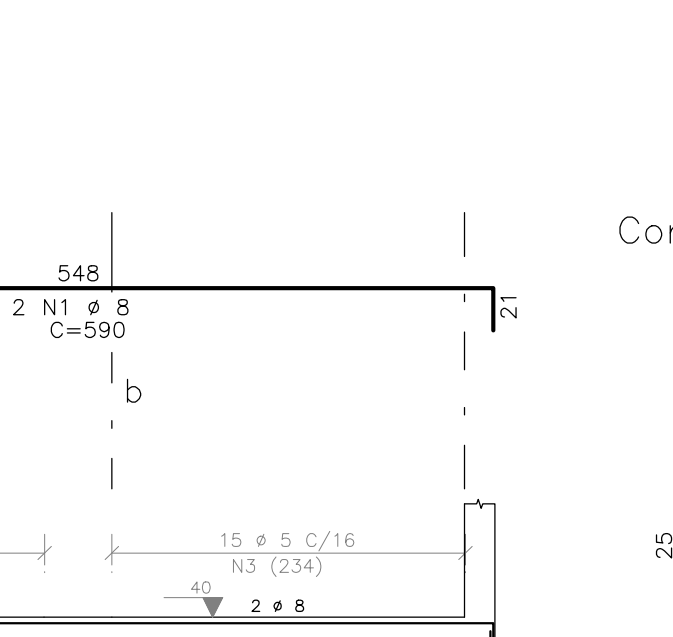
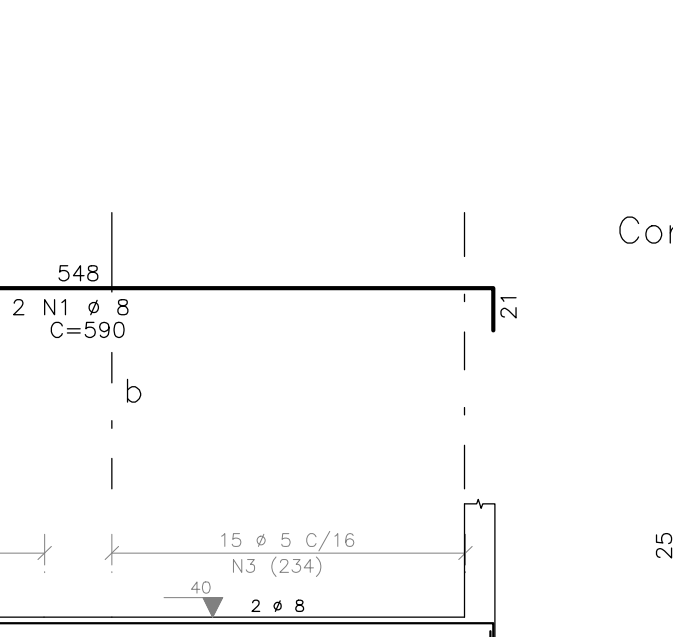
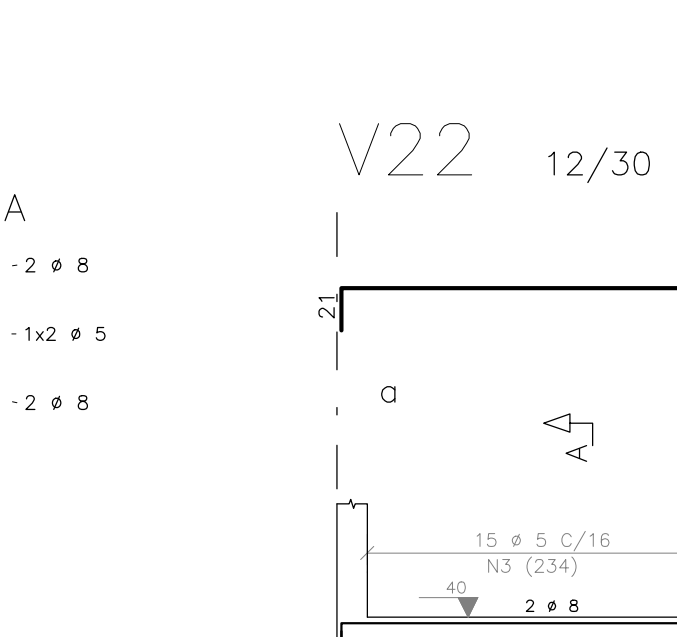
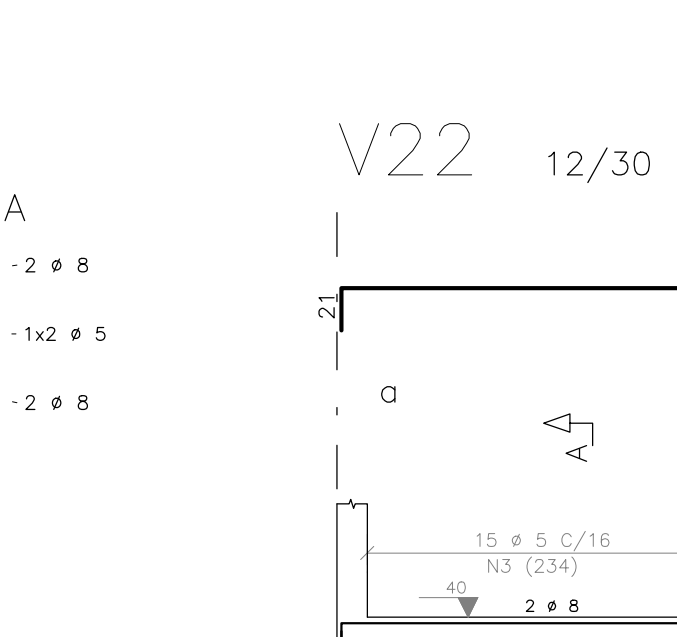
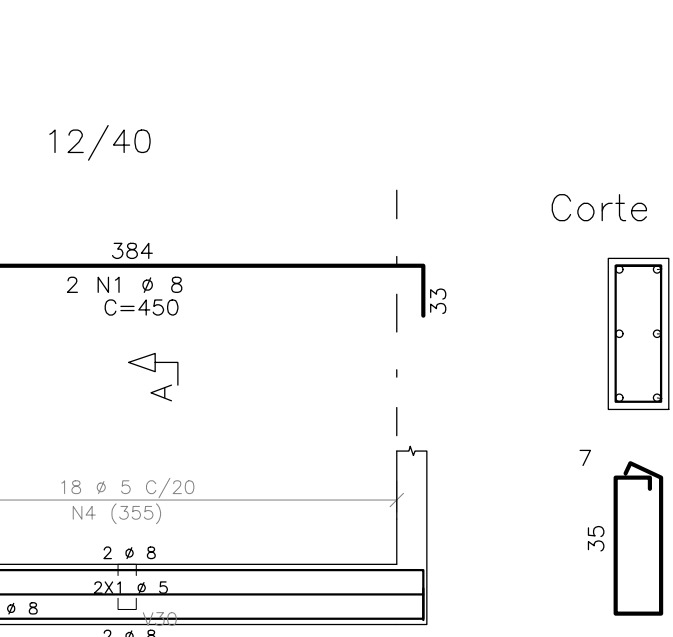
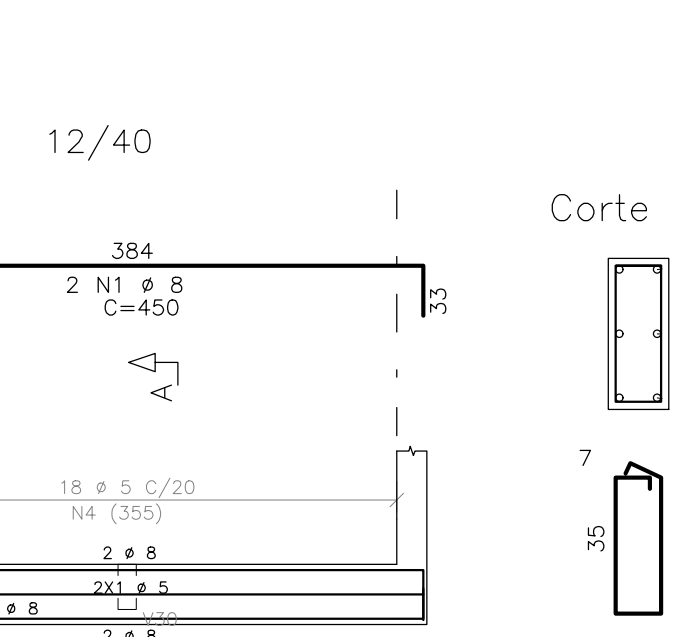
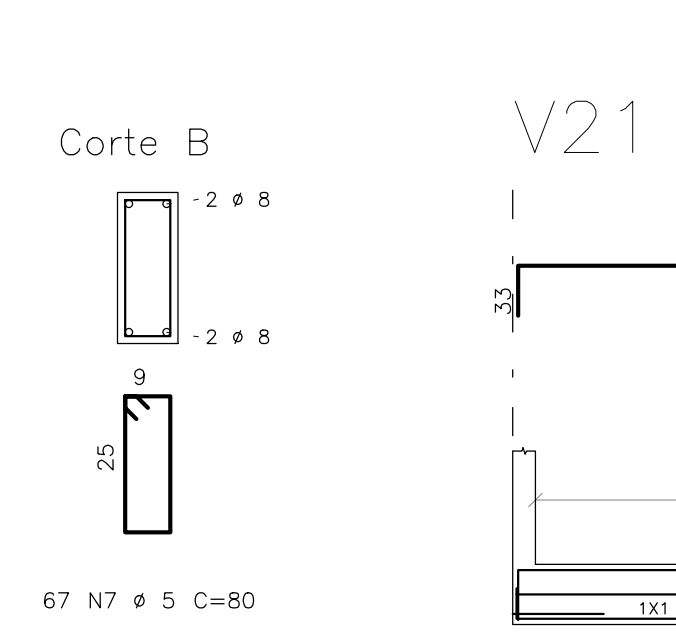
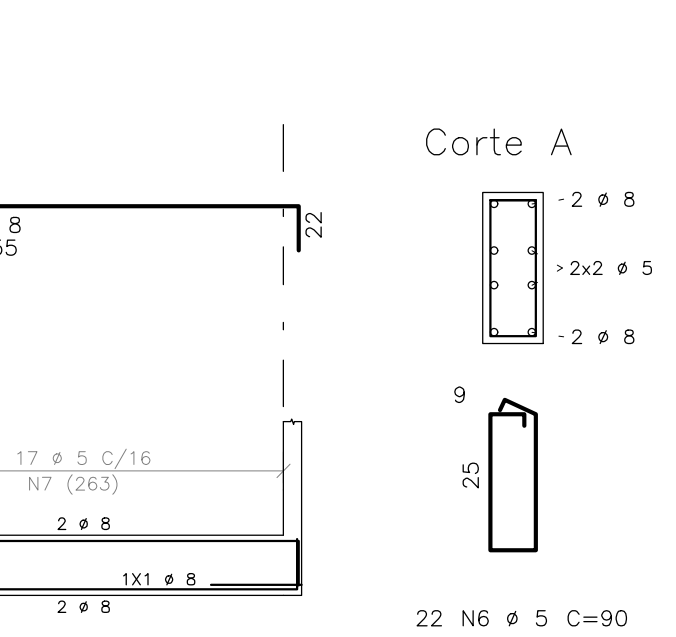
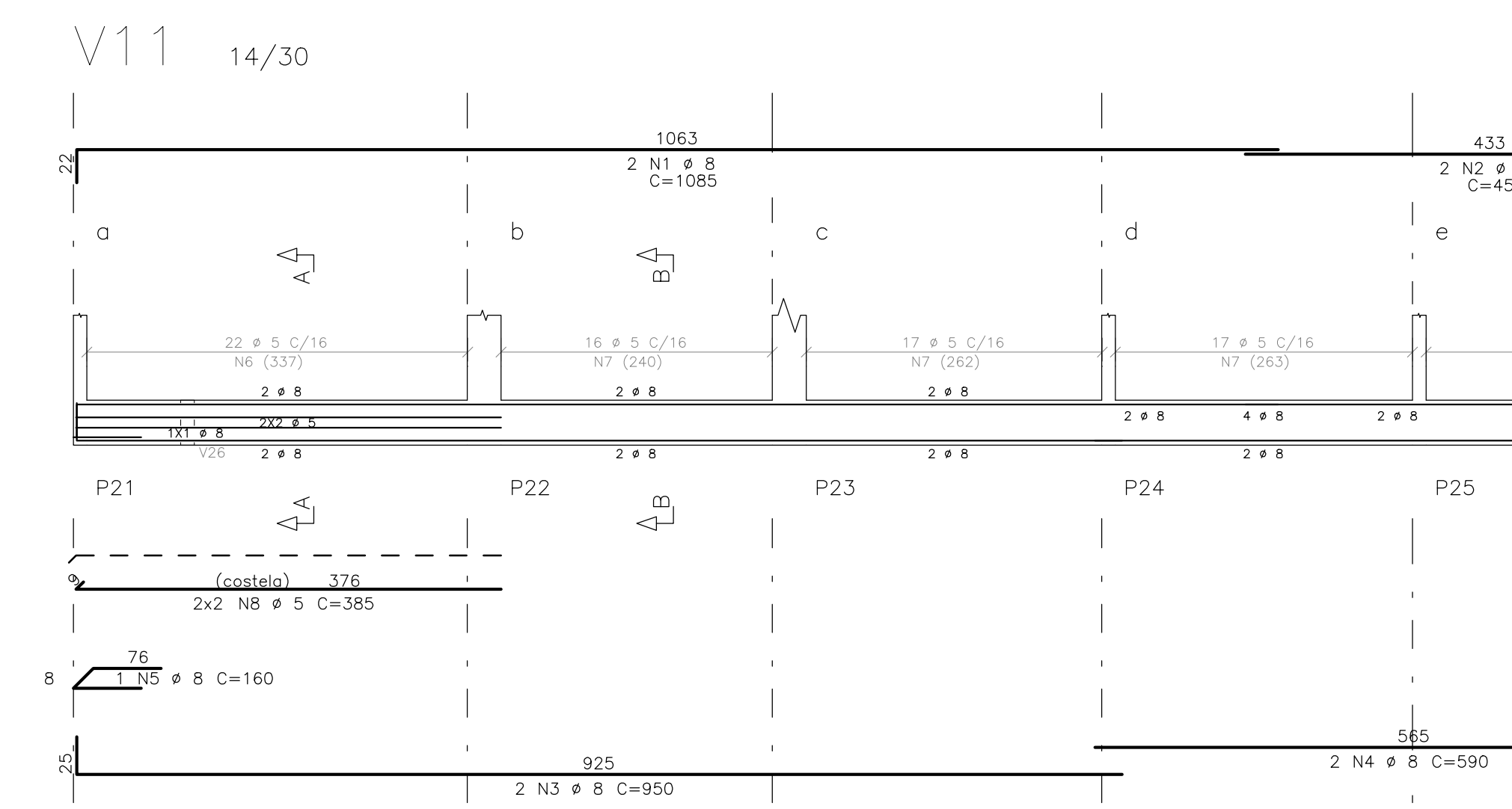
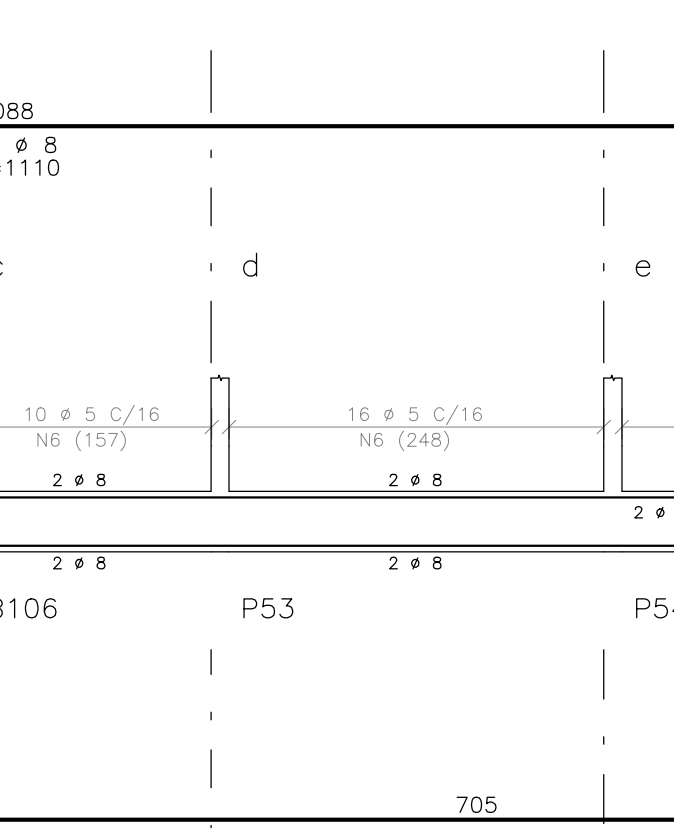
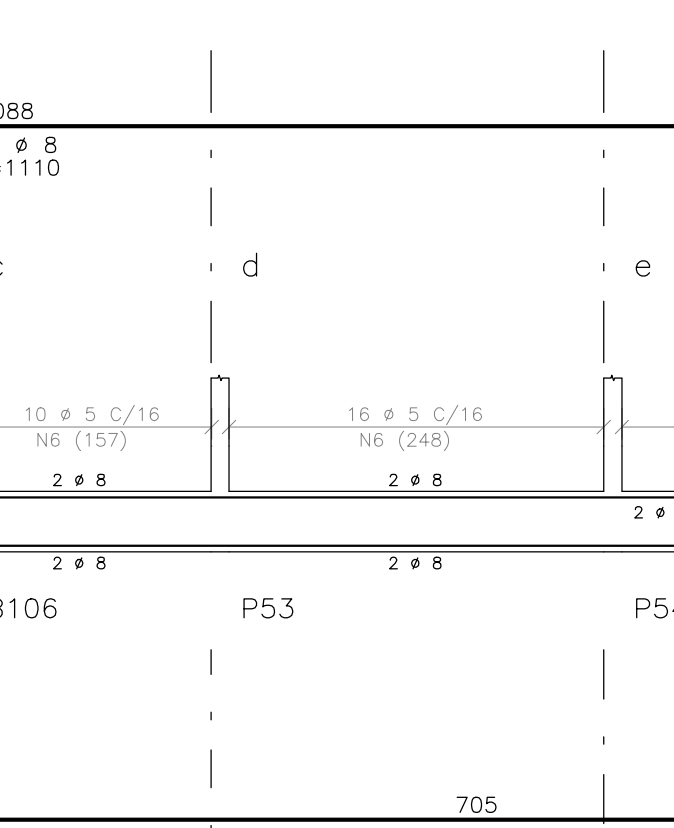
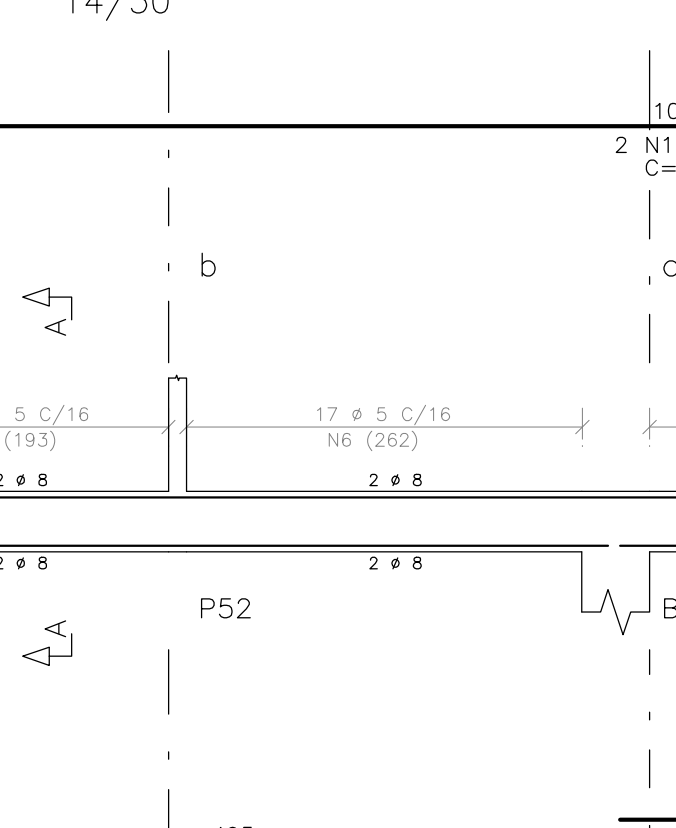
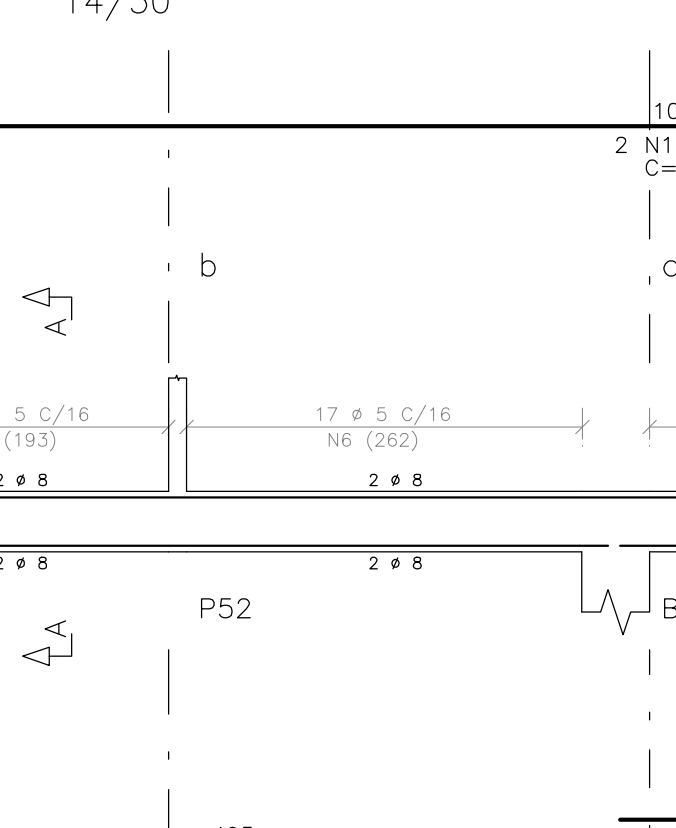
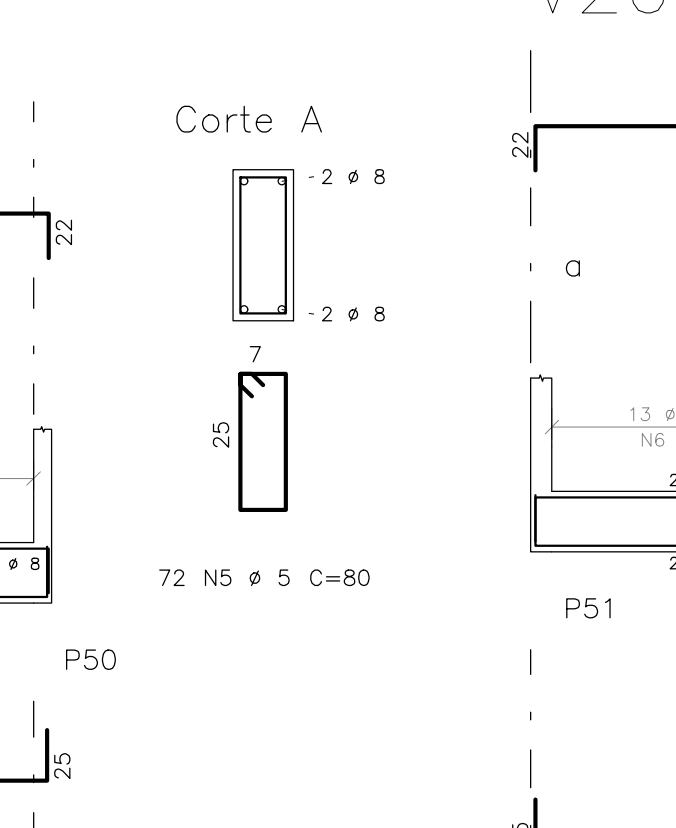
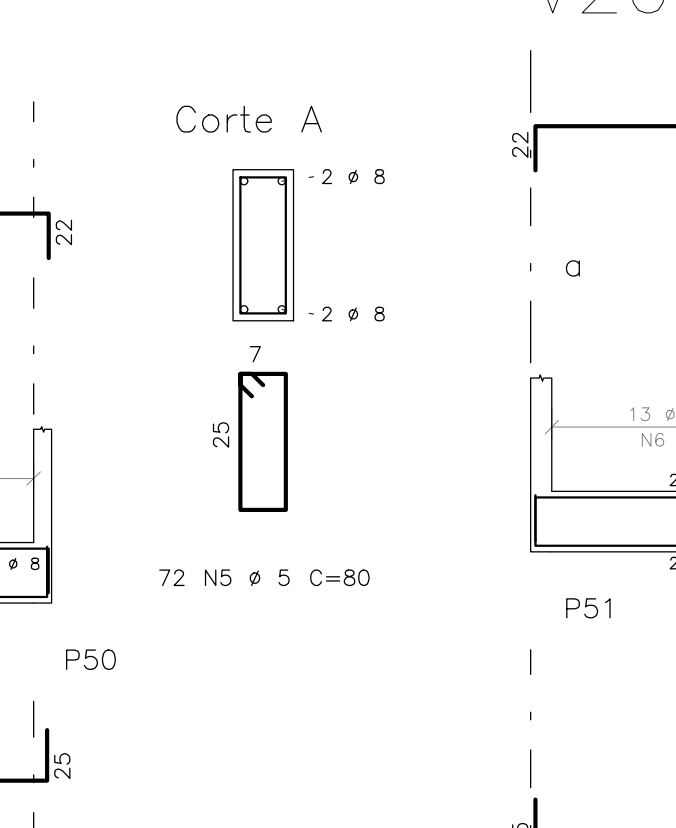
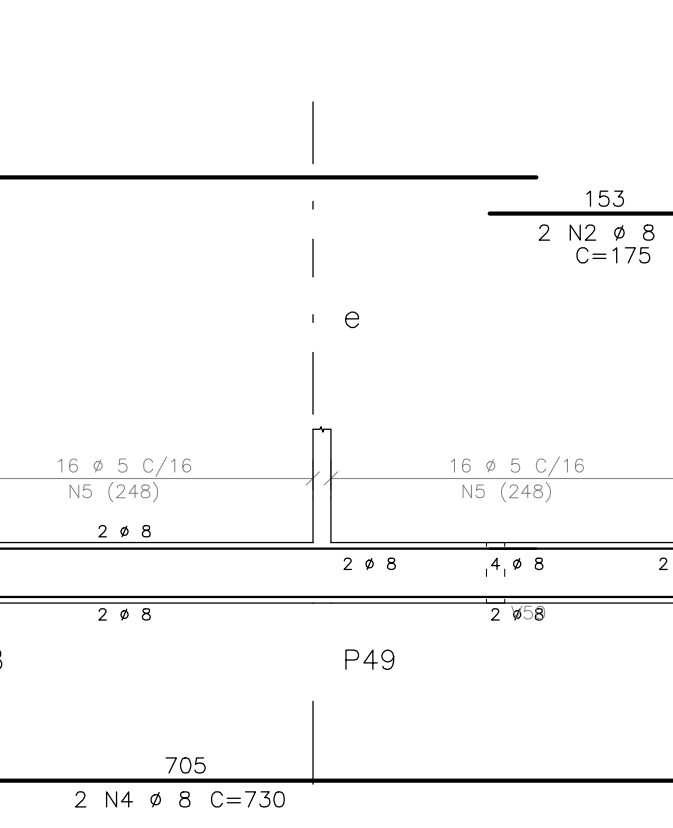
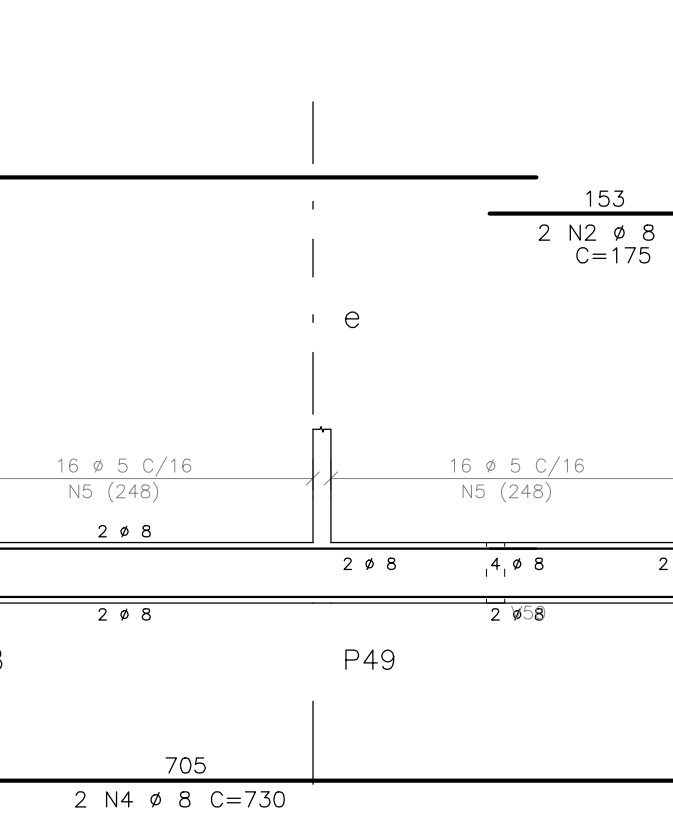
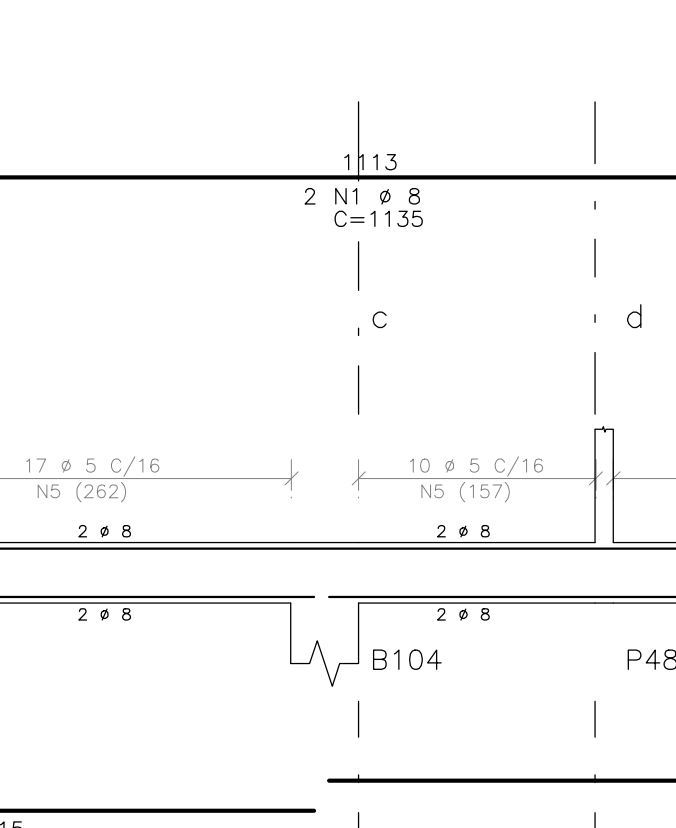
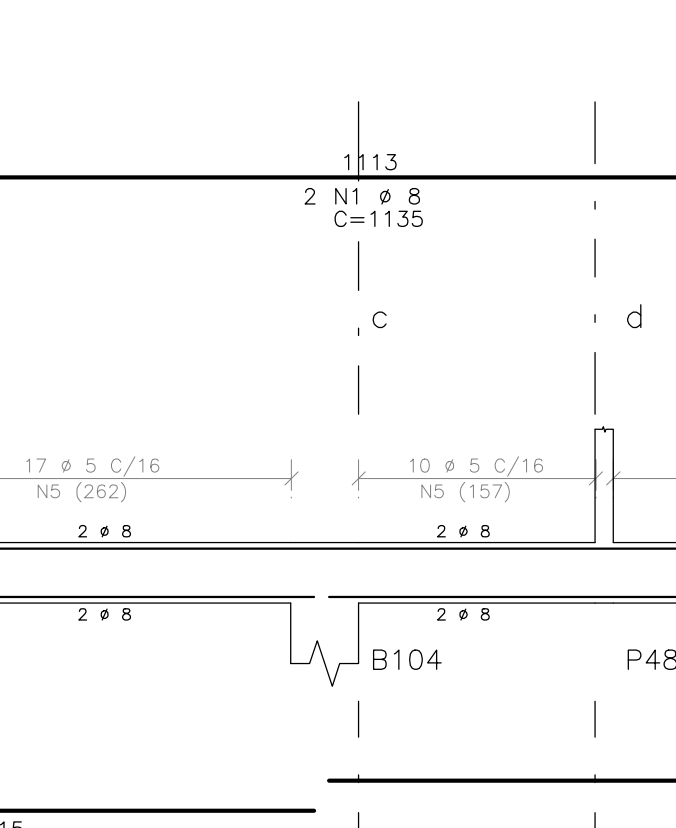
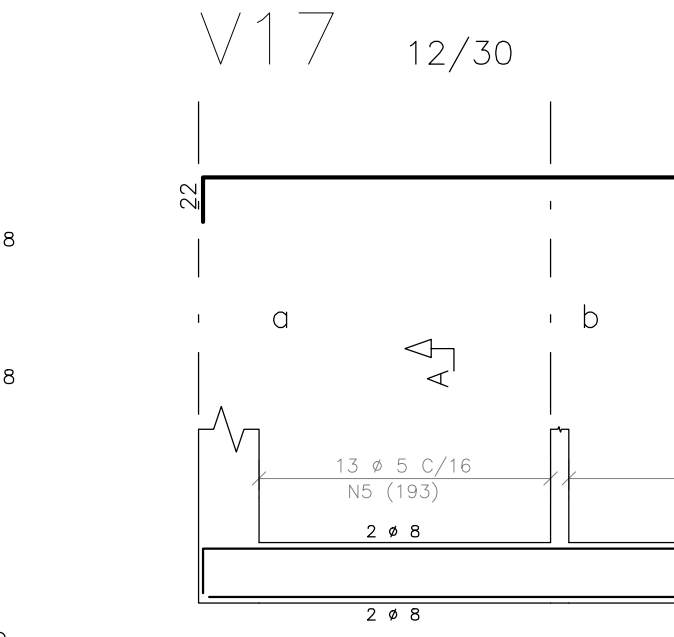
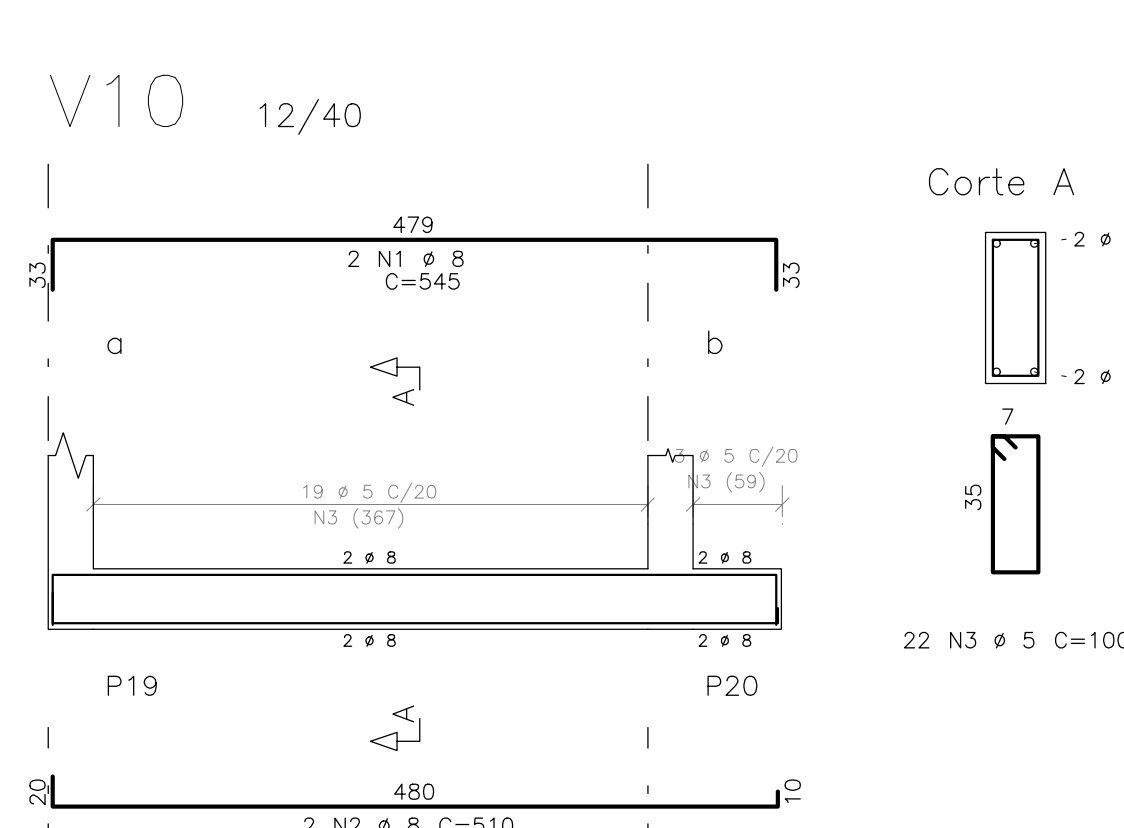
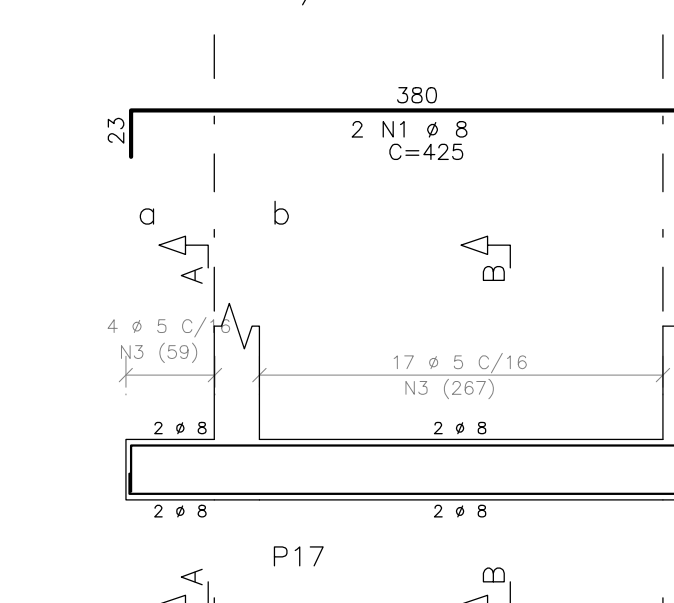
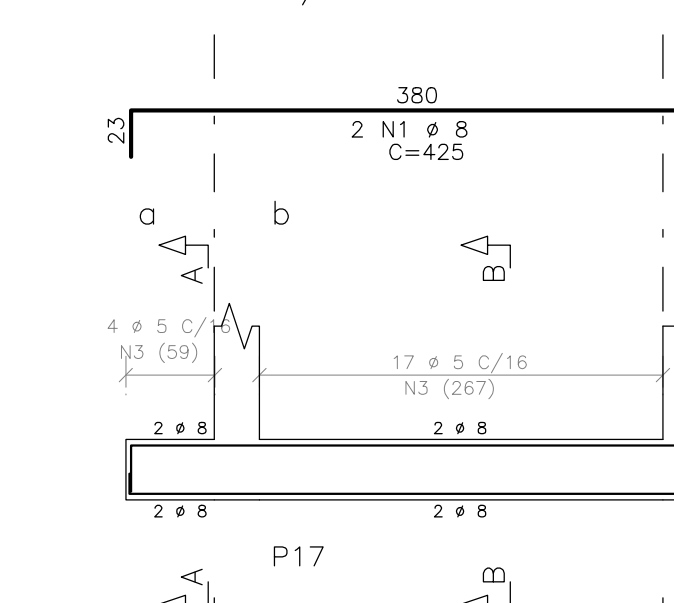
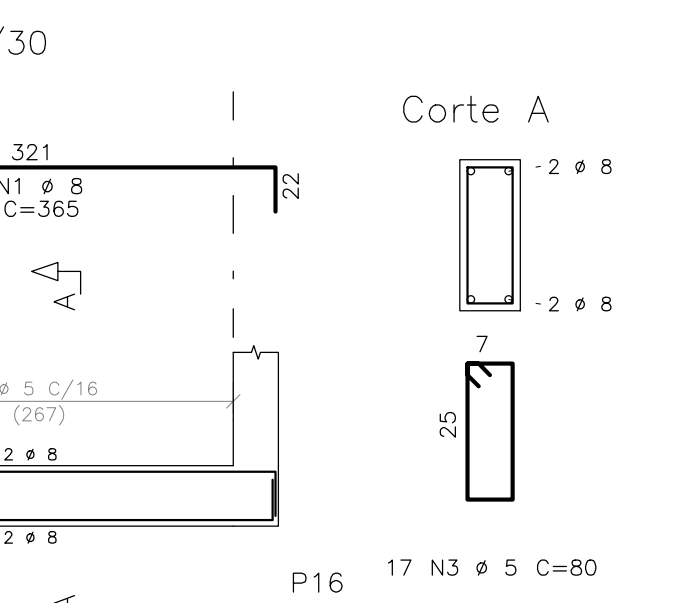
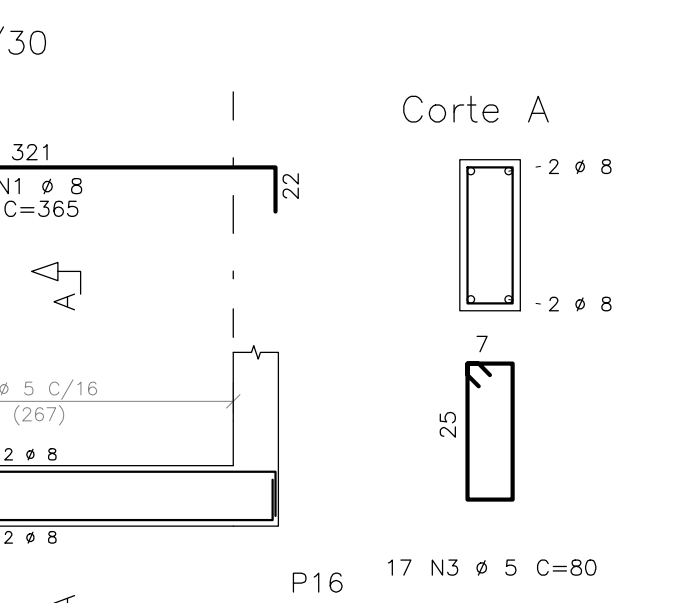
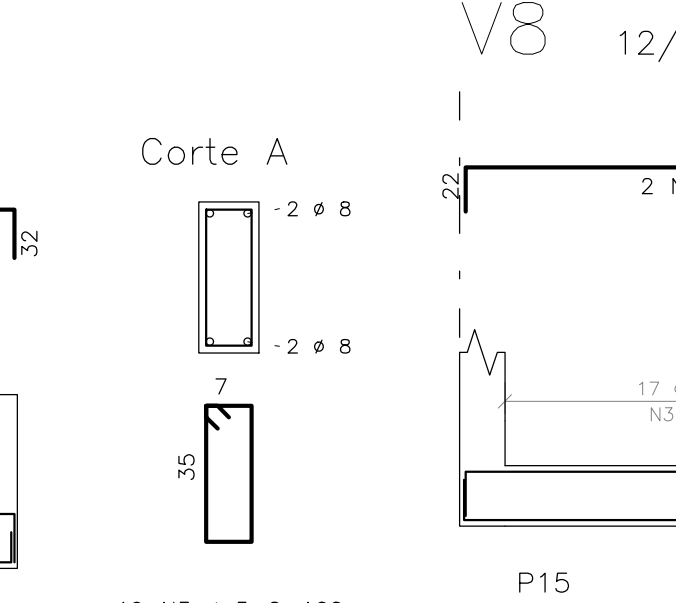
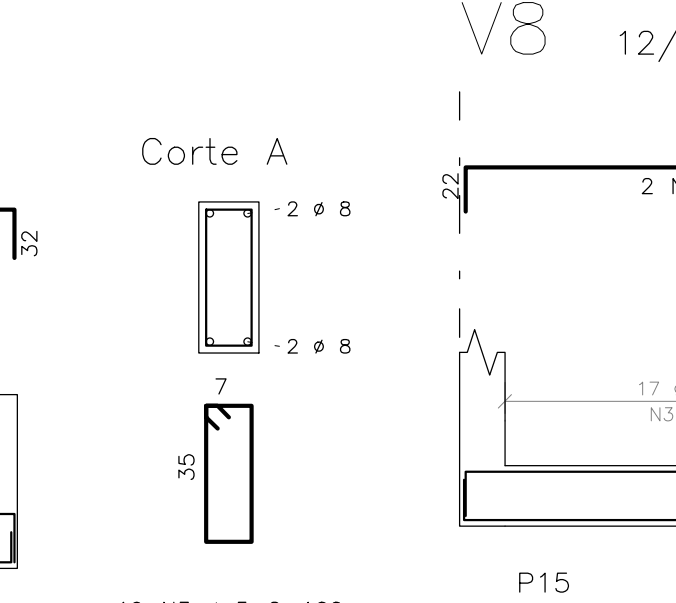
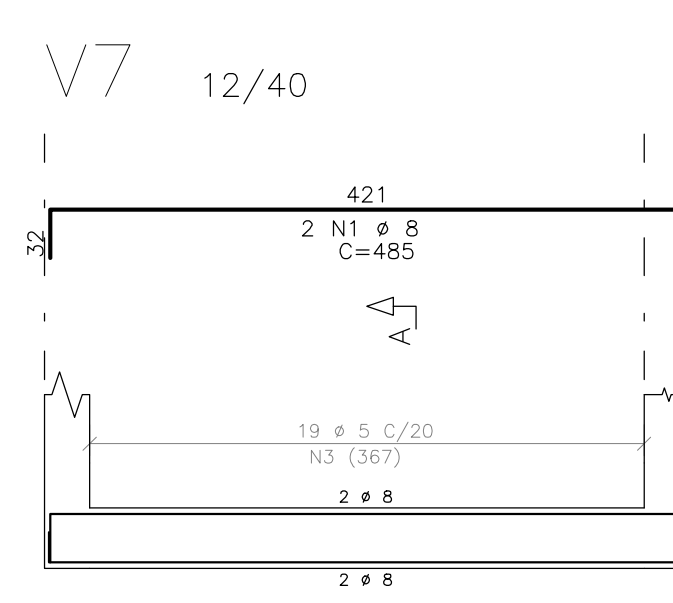
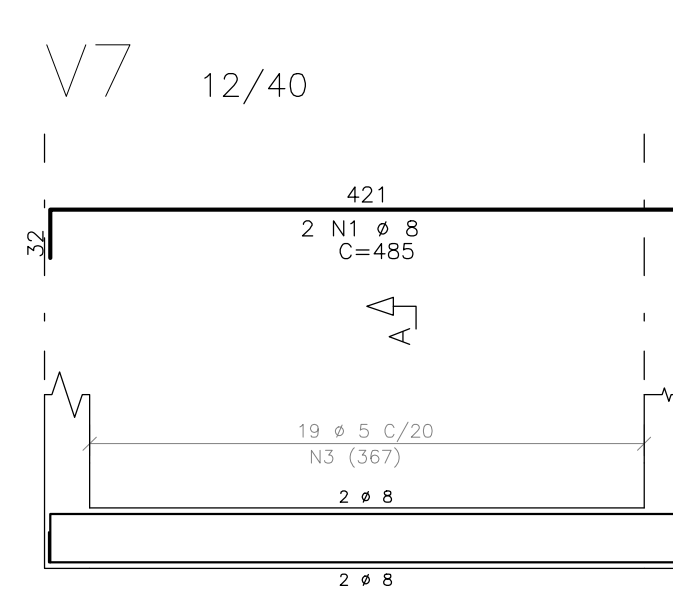
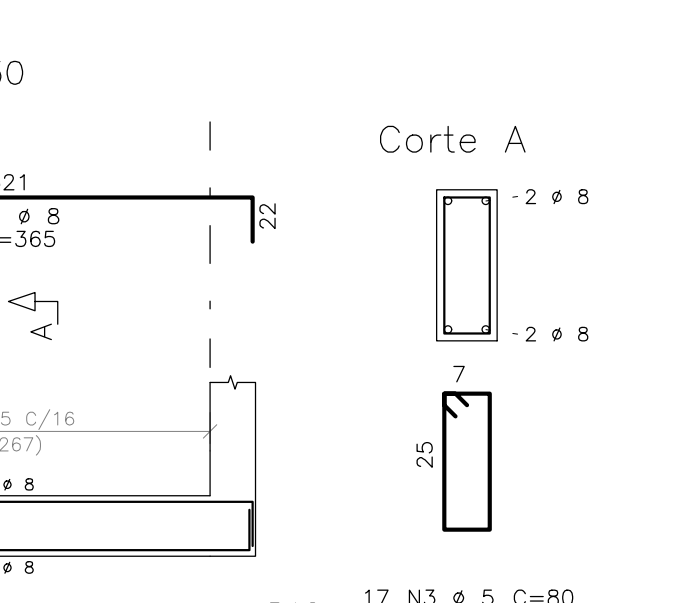
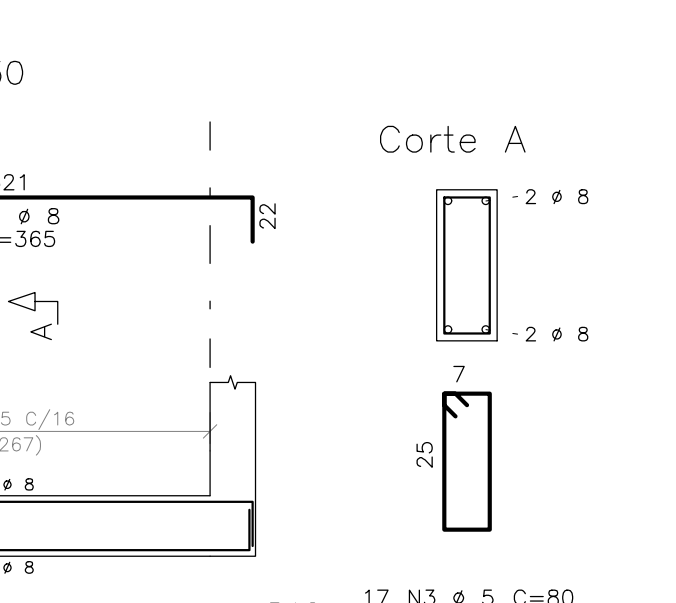
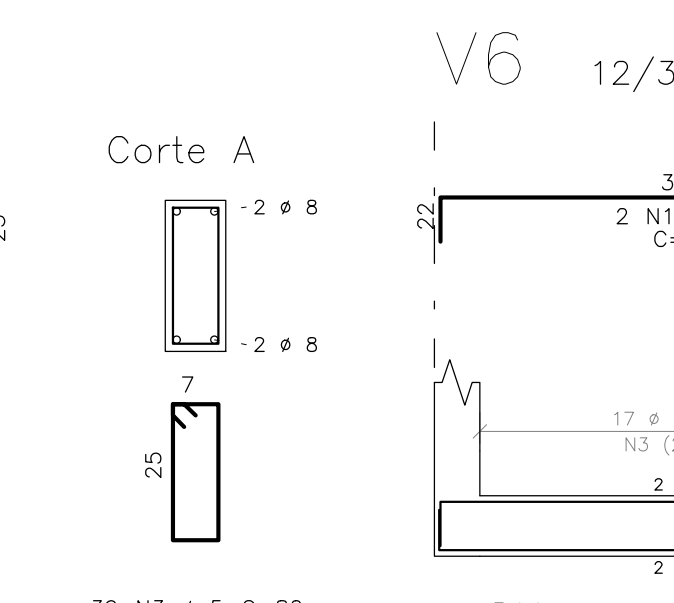
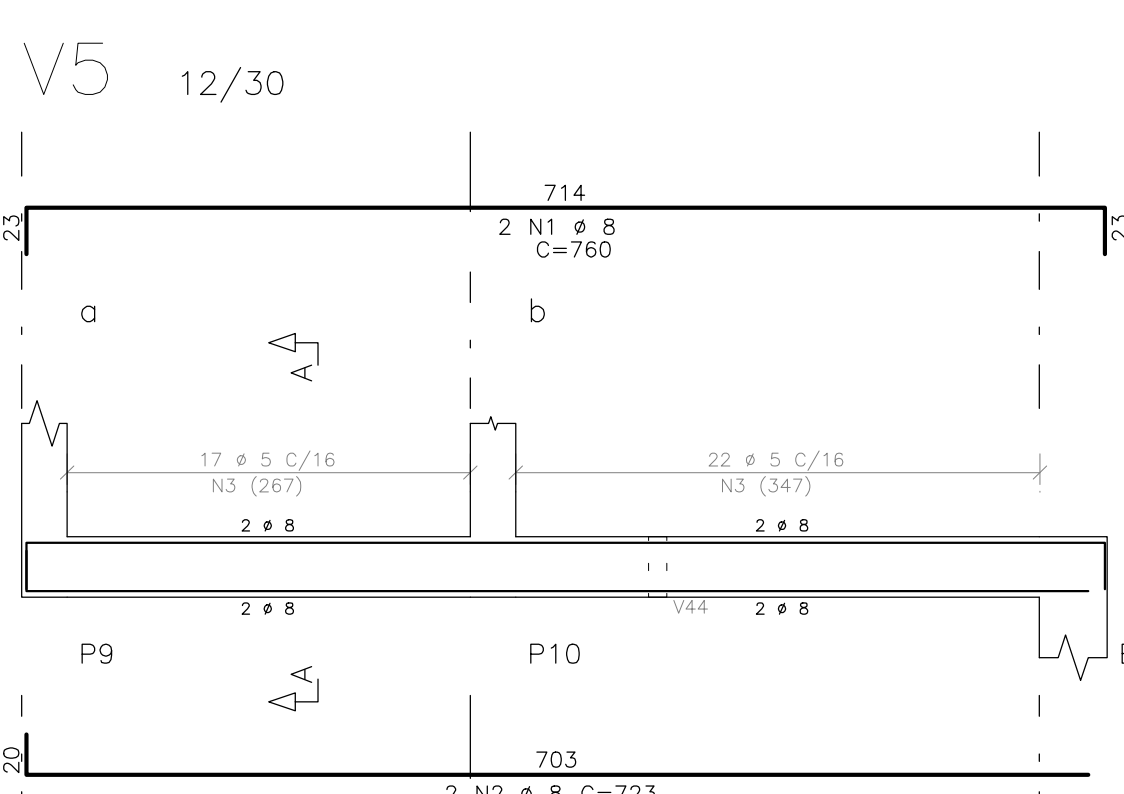
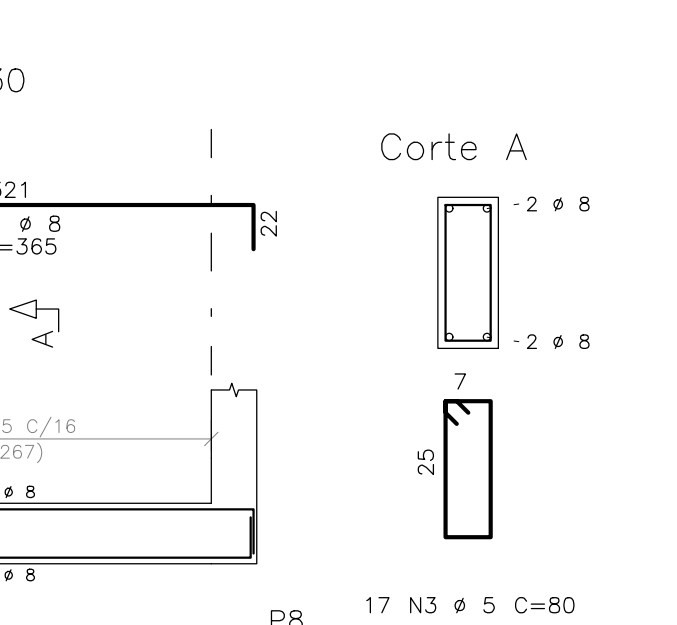
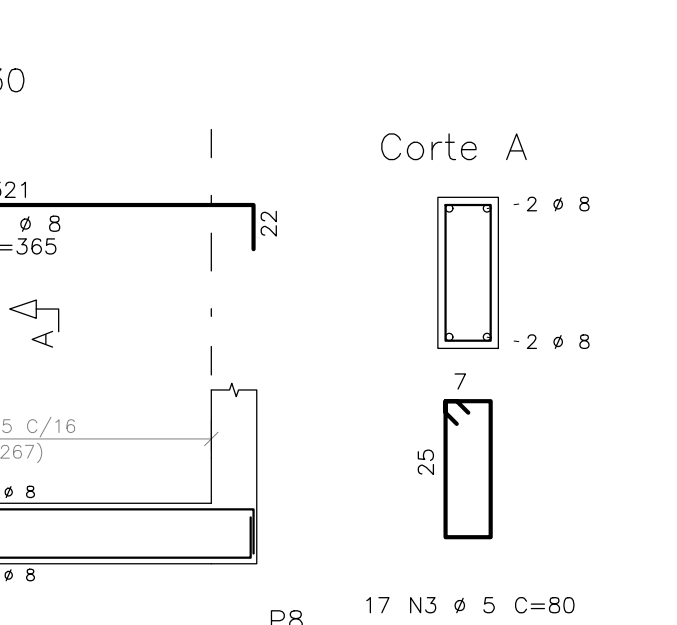
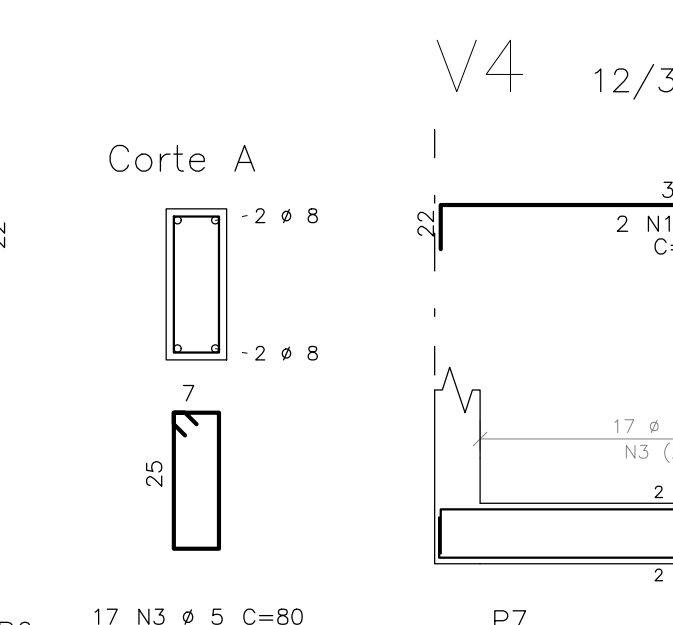
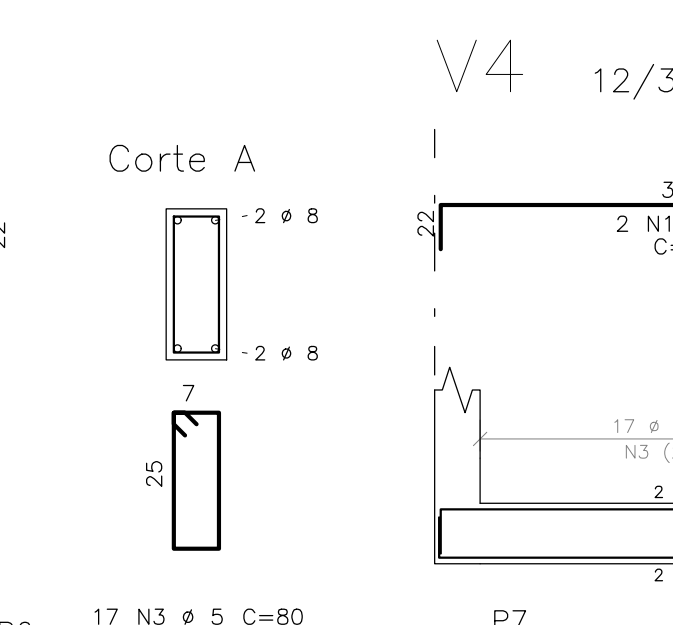
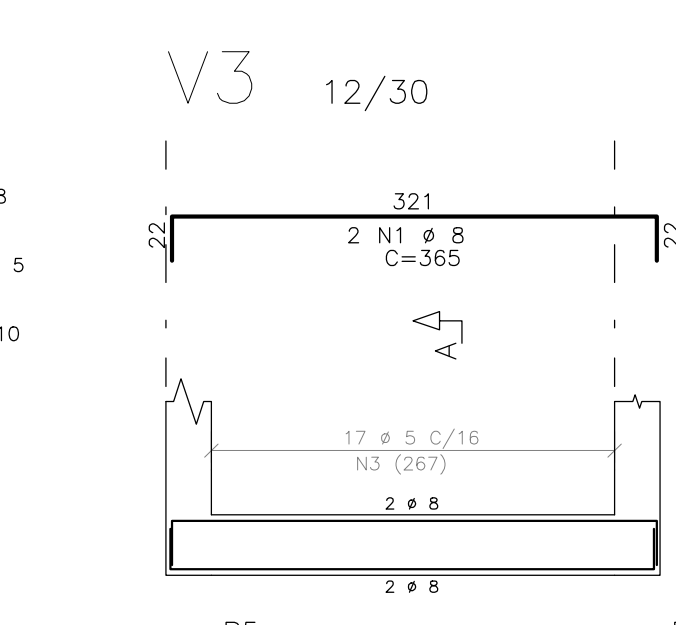
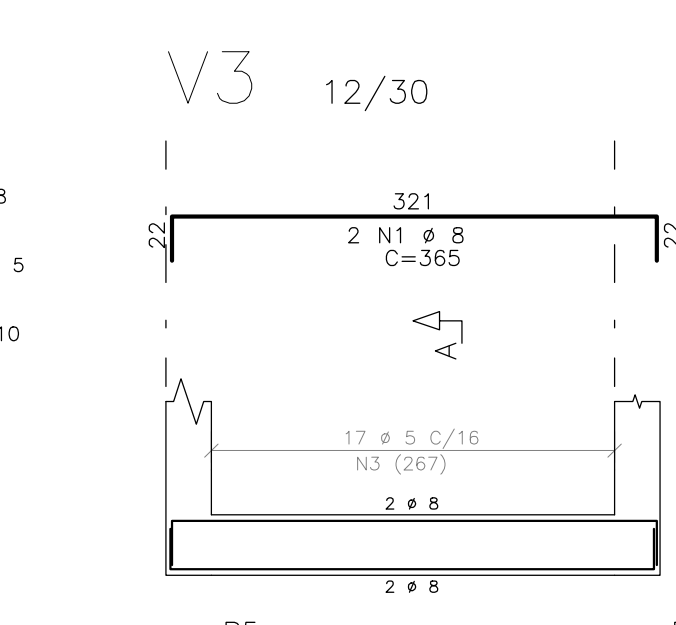
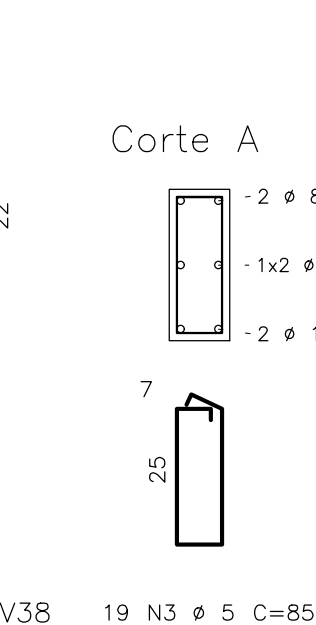
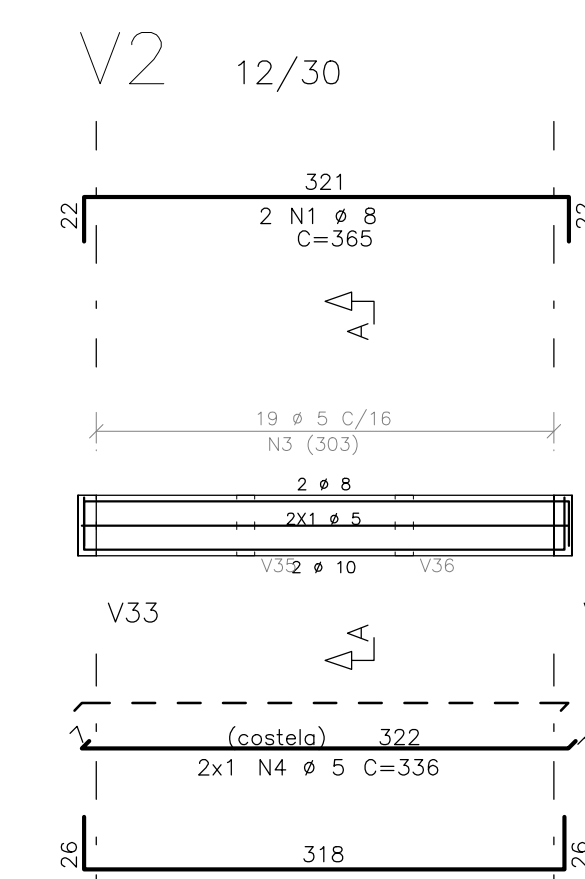
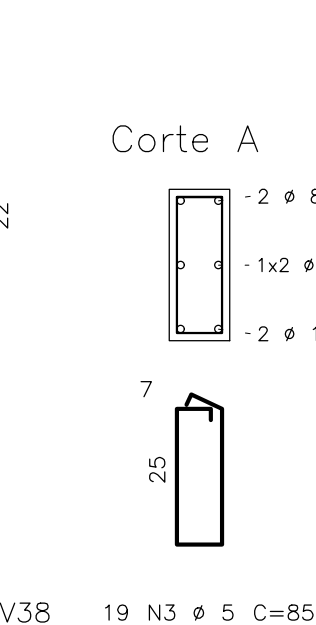
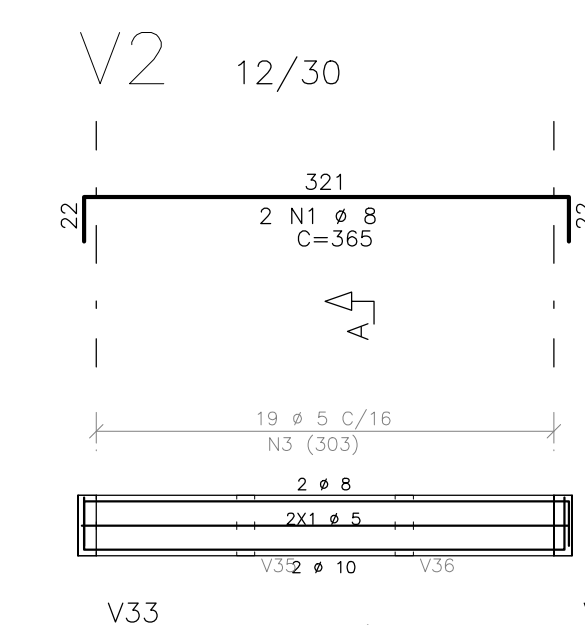
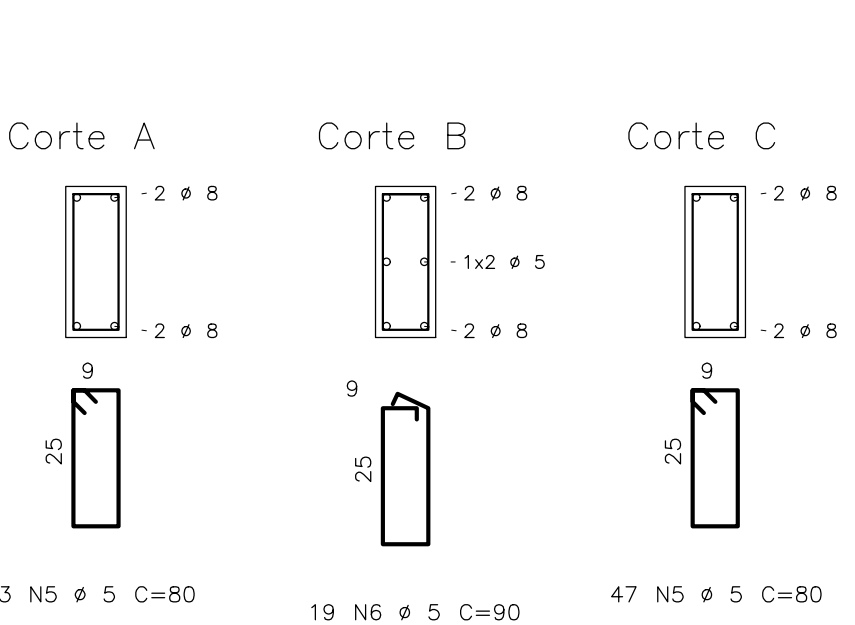
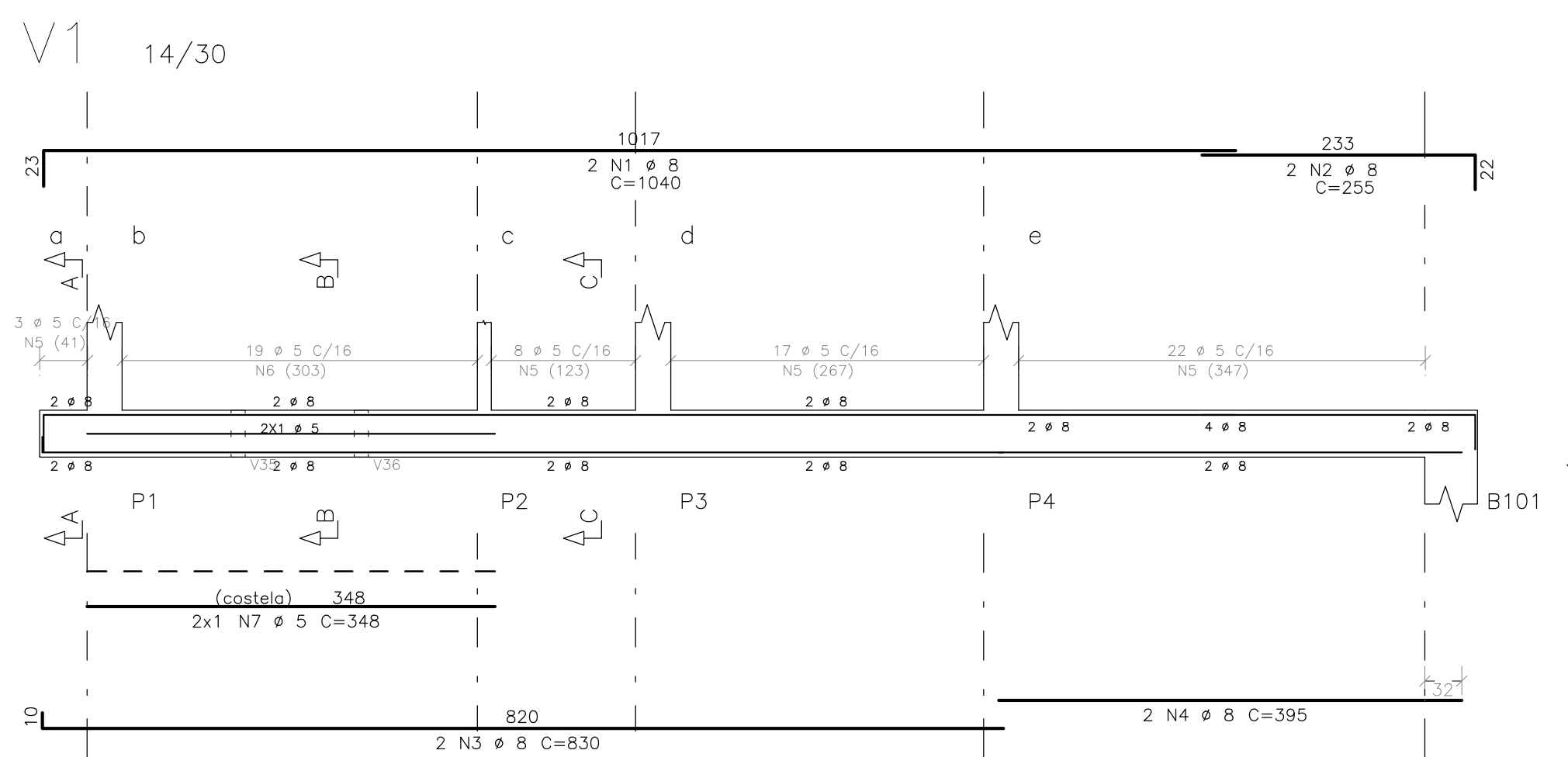




AÇO	POS	BIT (mm)	QUANT	COMPR (cm)
V1	50A	1	8	2
	50A	3	8	2
	50A	4	8	2
	60B	5	5	50
	60B	6	5	19
	60B	7	5	2
V2	50A	1	8	2
	50A	2	10	2
	60B	3	5	19
	60B	4	5	2
V3	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2
V4	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2
V5	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2
V6	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2
V7	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2
V8	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2
V9	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2
V10	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2
V11	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2
V12	50A	1	8	2
	50A	2	8	2
	60B	3	5	17
	60B	4	5	2

AÇO	POS	BIT (mm)	QUANT	COMPR (cm)
V13	50A	1	8	2
	50A	3	5	8
V14	50A	1	10	2
	50A	3	5	8
	50A	4	8	2
V15	50A	1	8	2
	50A	2	8	2
	60B	3	5	66
V16	50A	1	8	2
	50A	2	8	2
	60B	3	5	29
	60B	4	5	18
	60B	5	5	2
V17	50A	1	8	2
	50A	2	8	2
	50A	3	5	29
	50A	4	8	2
	50A	5	5	2
V18	50A	1	8	2
	50A	2	8	2
	50A	3	5	29
	50A	4	8	2
	50A	5	5	2
V19	50A	1	8	2
	50A	2	8	2
	50A	3	5	11
	60B	4	5	11
V20	50A	1	8	2
	50A	2	8	2
	50A	3	5	29
	50A	4	8	2
	50A	5	5	2
V21	50A	1	8	2
	50A	2	8	2
	50A	3	5	16
	50A	4	5	2
	60B	5	5	2
V22	50A	1	8	2
	50A	2	8	2
	50A	3	5	30
	60B	4	5	30
V23	50A	1	8	2
	50A	2	8	2
	50A	3	5	37
	60B	4	5	37
V24	50A	1	8	2
	50A	2	8	2
	50A	3	5	48
	60B	4	5	48

AÇO	BIT (mm)	COMPR (cm)	PESO (kg)
50A	5	833	132
60B	5	895	218
50A	10	21	13
Peso Total	60B	=	132 kg
Peso Total	50A	=	291 kg

CONCRETO	CARGAS PARA DIMENSIONAMENTO
Fck= 25 MPa	A/C Mx= 0.60
Eck= 28 GPa	CARGA UTILIZAÇÃO
	Kg/m2
MATERIAL	TUJOLO CERÂMICO DE 6 Furos
REVESTIMENTO	cm
MATERIAL DE ENCHIMENTO	Kg/m3
REVESTIMENTO	cm



GOVERNO DO ESTADO DO PARANÁ
SEL - SECRETARIA DE INFRAESTRUTURA E LOGÍSTICA
PARANÁ EDIFICAÇÕES
GERÊNCIA DE PROJETOS

PROPRIETÁRIO: GOVERNO DO ESTADO DO PARANÁ
UNIDADE: SECRETARIA DE INFRAESTRUTURA E LOGÍSTICA
LOCAL: PARANÁ
AUTOR DO PROJETO/REGISTRO: PROF. JOSE L. MORENO/ CREA 134160-PR
AUTOR DO PROJETO/REGISTRO: PROF. JOSE L. MORENO/ CREA 134160-PR
RESPONSÁVEL TÉCNICO/REGISTRO: PROF. JOSE L. MORENO/ CREA 134160-PR

PROJETO: ESTRUTURAL
REFERÊNCIA: ARM. VIGAS DO TERREO
MARCOS: MARÇO/2014
ESTADO: PARANÁ
CITY: CURITIBA
COUNTRY: BRASIL
COORDENADOR: JOSE L. MORENO/ CREA 134160-PR
PROJETO: ESTRUTURAL
REFERÊNCIA: ARM. VIGAS DO TERREO
MARCOS: MARÇO/2014
ESTADO: PARANÁ
CITY: CURITIBA
COUNTRY: BRASIL
COORDENADOR: JOSE L. MORENO/ CREA 134160-PR