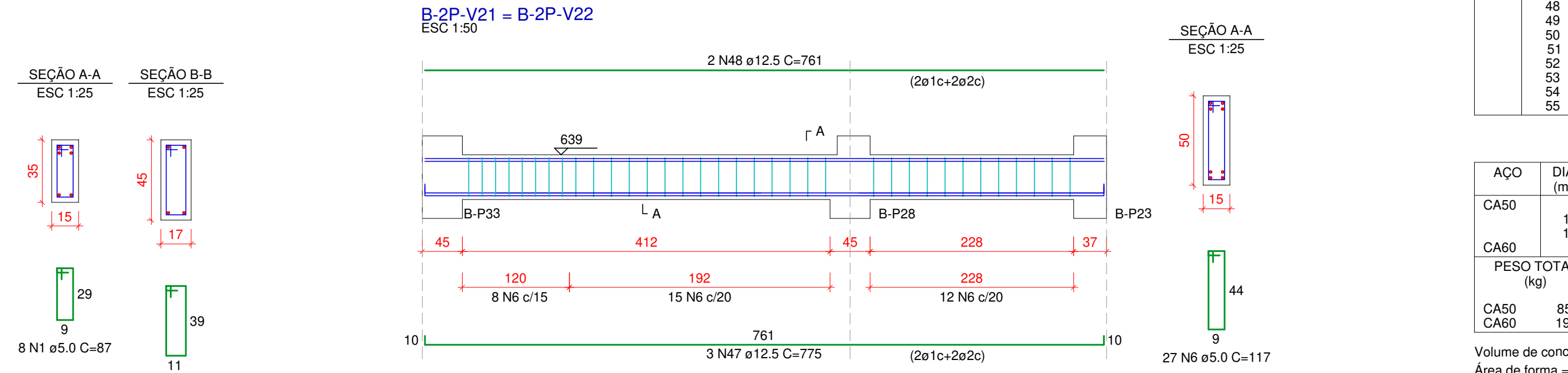
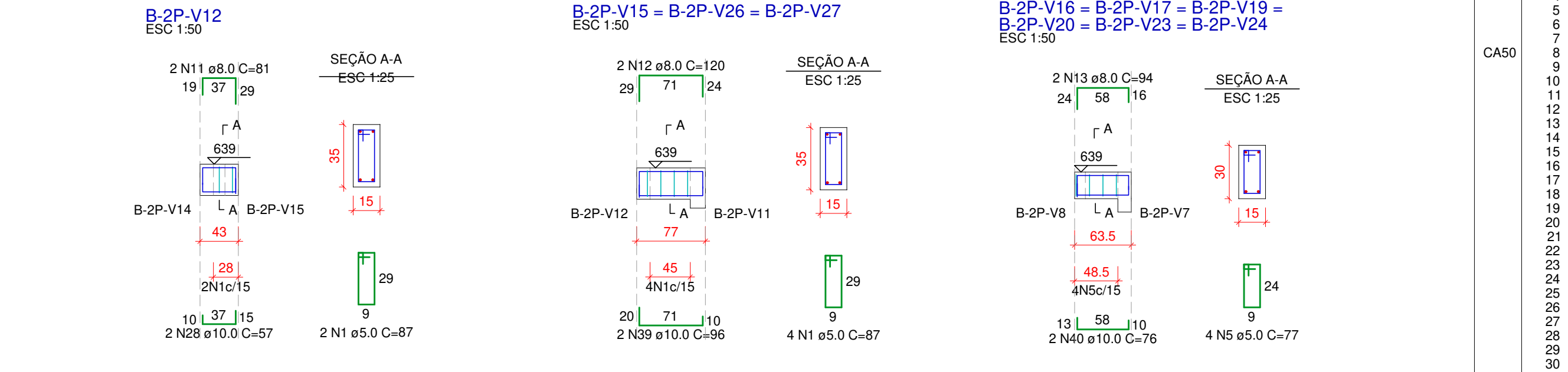
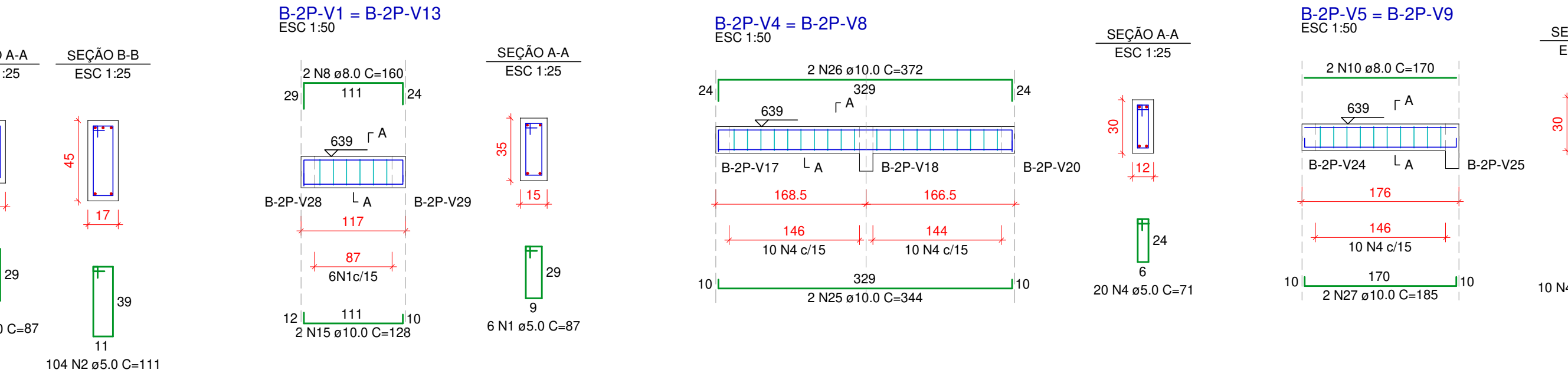
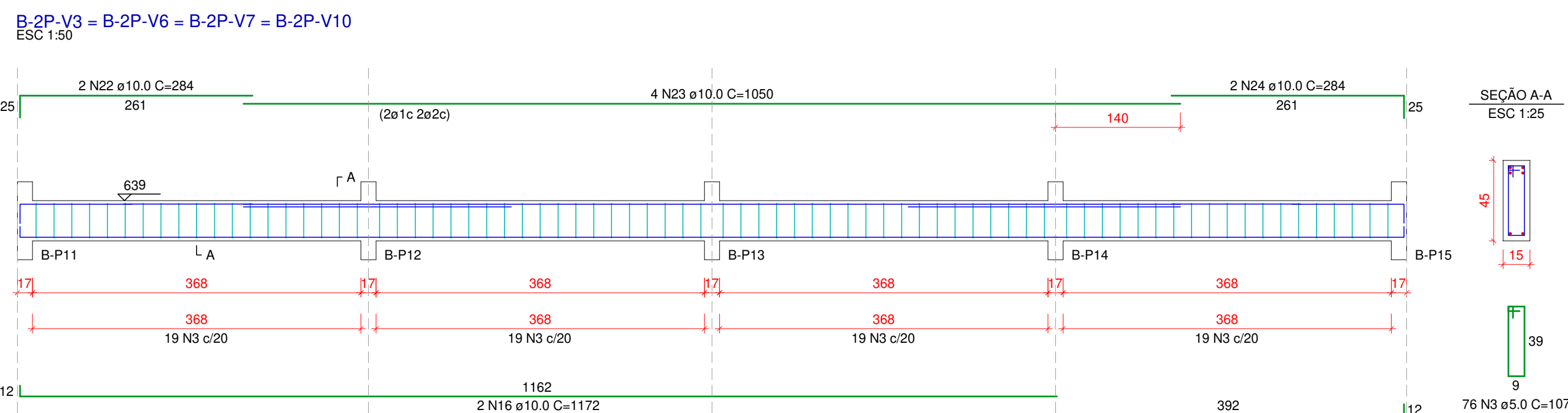
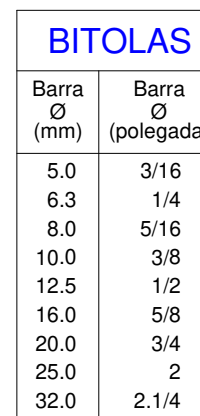


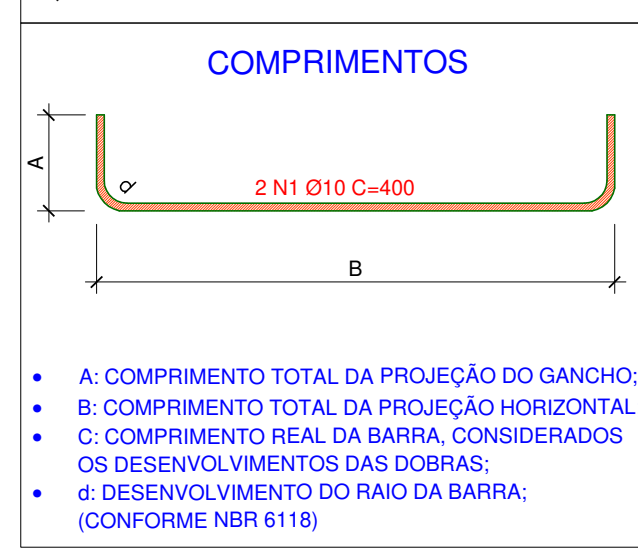


CONCRETO: $f_{ck} = 35 \text{ MPa}$



OS GANCHOS DOS ESTRIÇOS, PODEM SER:

- SEMICIRCULARES OU EM ÂNGULO DE 45° (INTERNO), COM PONTA RETA DE COMPRIMENTO IGUAL A 5x ϕ , PORÉM NÃO INFERIOR A 5,0 cm;
- EM ÂNGULO RETO, COM PONTA RETA DE COMPRIMENTO MAIOR OU IGUAL A 10x ϕ , PORÉM NÃO INFERIOR A 7,0 cm (ESTE TIPO DE GANCHO NÃO PODE SER UTILIZADO PARA BARRAS E FIOS LISOS).



AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	71	30.8
	10.0	683.9	450.2
	12.5	356.8	378.1
CA60	5.0	1142.9	193.8
PESO TOTAL			

AÇO	DIAM (mm)	C.TOTAL (m)	PESO + 10% (kg)
CA50	8.0	71	30.8
	10.0	683.9	450.2
	12.5	356.8	378.1
CA60	5.0	1142.9	193.8
PESO TOTAL			

CA30	839.1
CA60	193.8

Volume de concreto (C-35) = 13,89 m³
 Área de forma = 200,40 m²

CONCRETO: $f_{ck} = 35 \text{ MPa}$