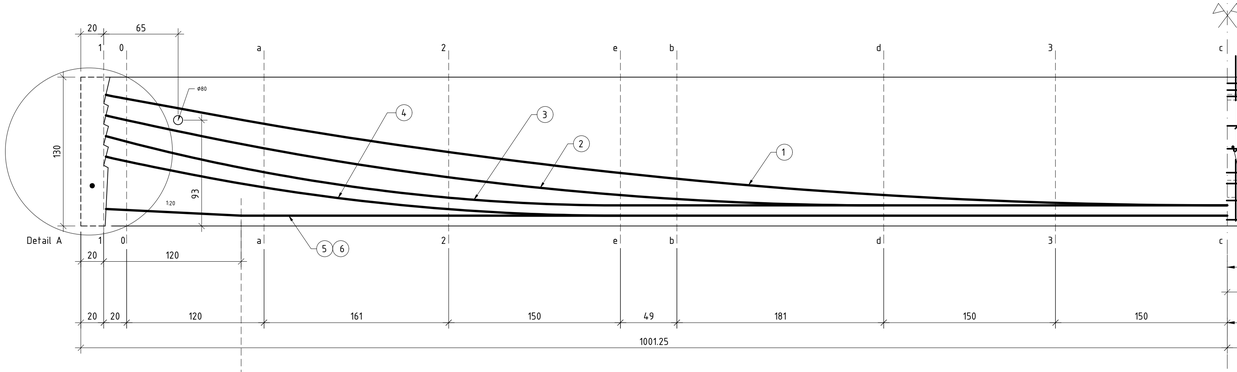
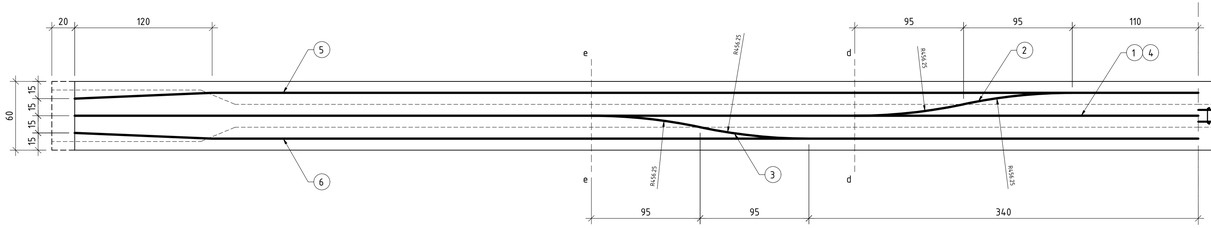
Cable layout

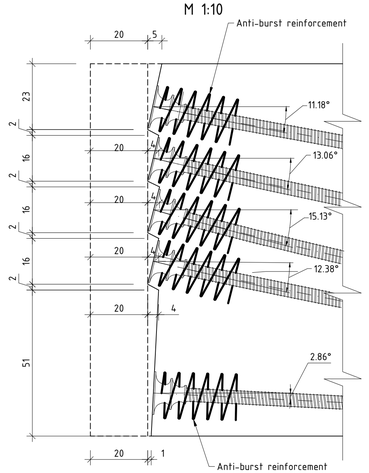


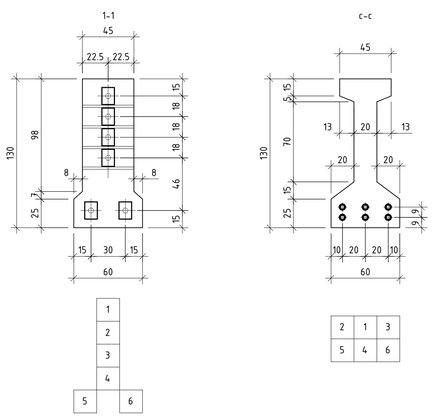


Cable ordinates measured from the bottom of the beam in cm

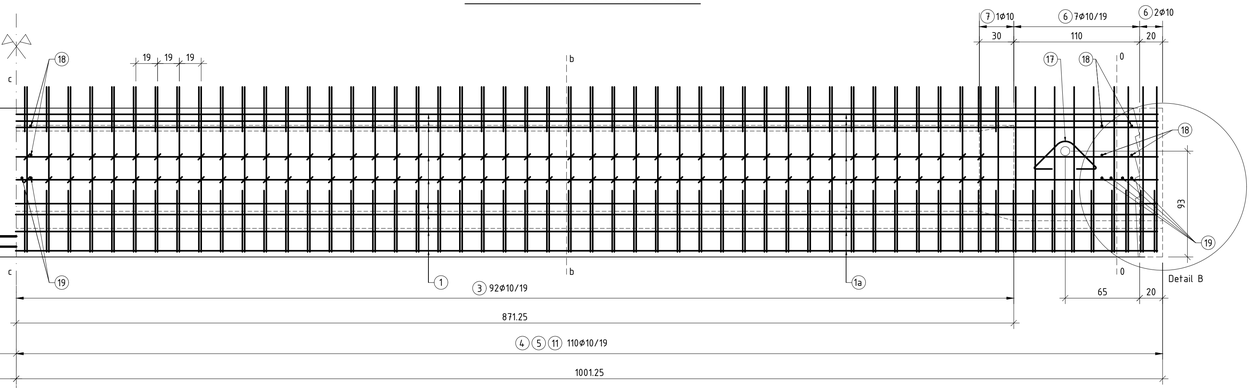
section / cable	1	0		a		2		e		b		d		3		c
1	115	111.1		89.3		64.6		46.3		41.3		27.1		20.3		18
2	97	92.4		67.9		42.6		27		23.6		18		18		18
3	79	73.7		47		24.7		18		18		18		18		18
4	61	56.5		33.7		14.8		9		9		9		9		9
5	15	14		9		9		9		9		9		9		9
6	15	14		9		9		9		9		9		9		9

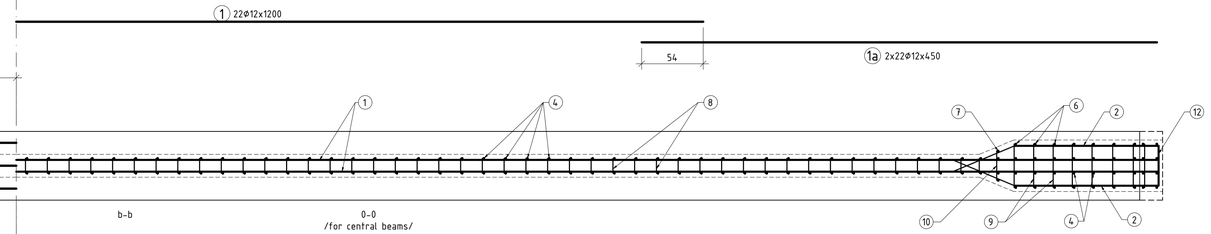
Detail A
M 1:10



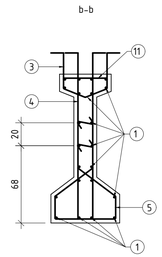


Conventional reinforcement

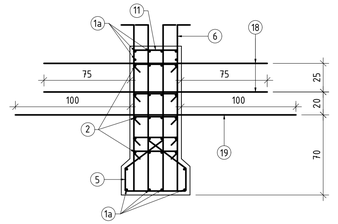


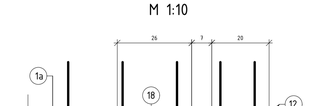


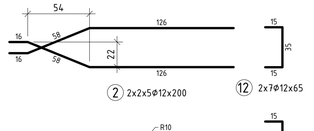
b-b

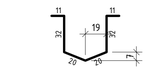


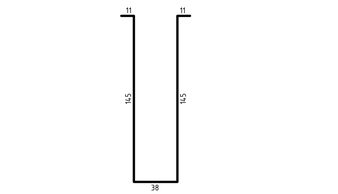
0-0
/for central beams/

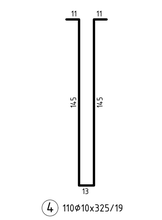


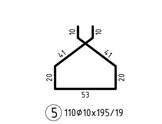


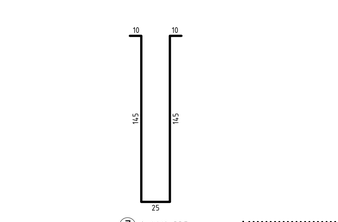


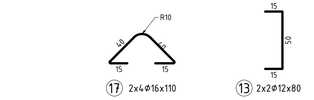


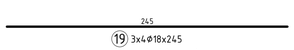




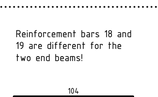


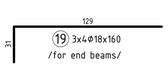




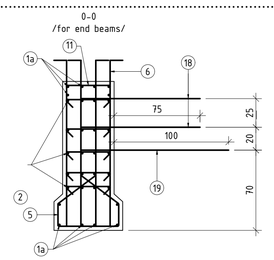


Reinforcement bars 18 and 19 are different for the two end beams!





0-0
/for end beams/



NOTES:

1. Concrete grade C35/45 with f_{ck}=35 MPa.
2. Reinforcement steel grade B500B with f_{yk}=500 MPa.
3. Nominal concrete cover c_{nom}=35 mm.
3. Prestressing steel grade Y1770-S7.
4. Prestessing system Freyssinet - 3C15.

U A C E G - Sofia
Department
REINFORCED CONCRETE STRUCTURES

Project	
Drawing	
Student	
Date	
Tutor	