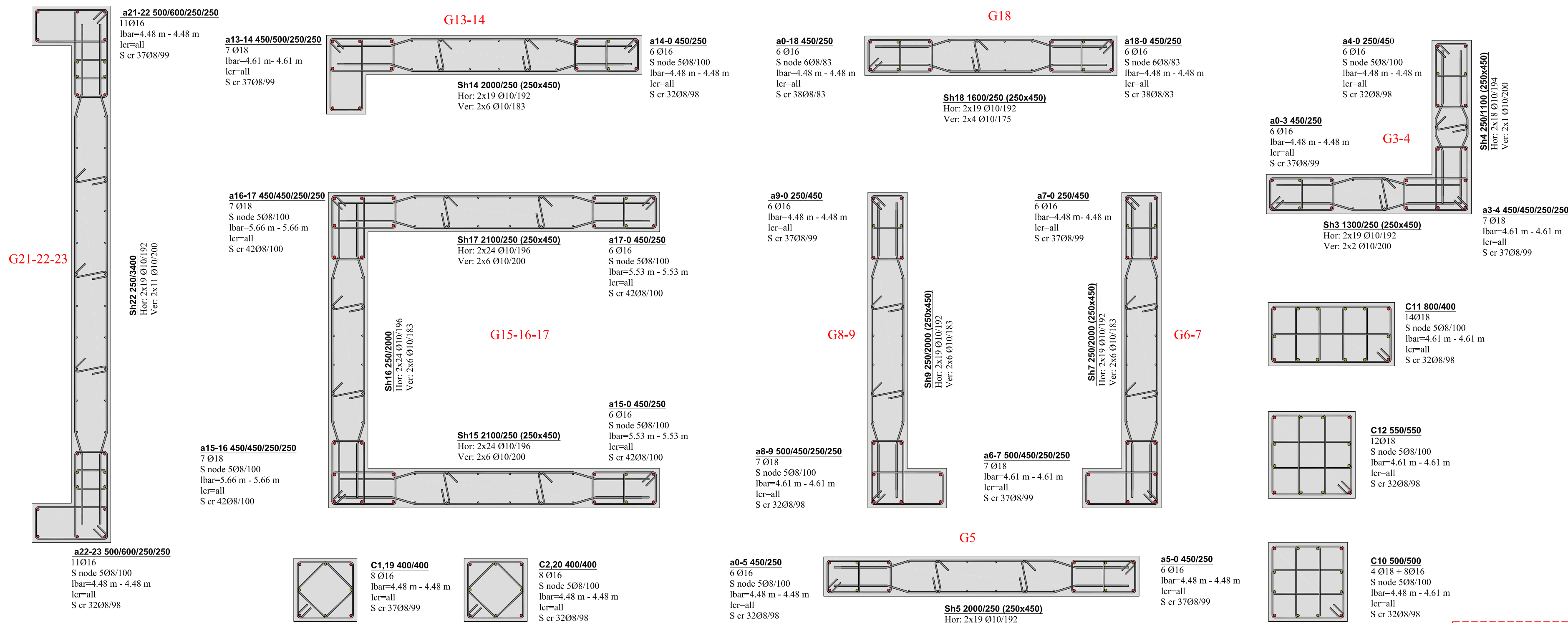
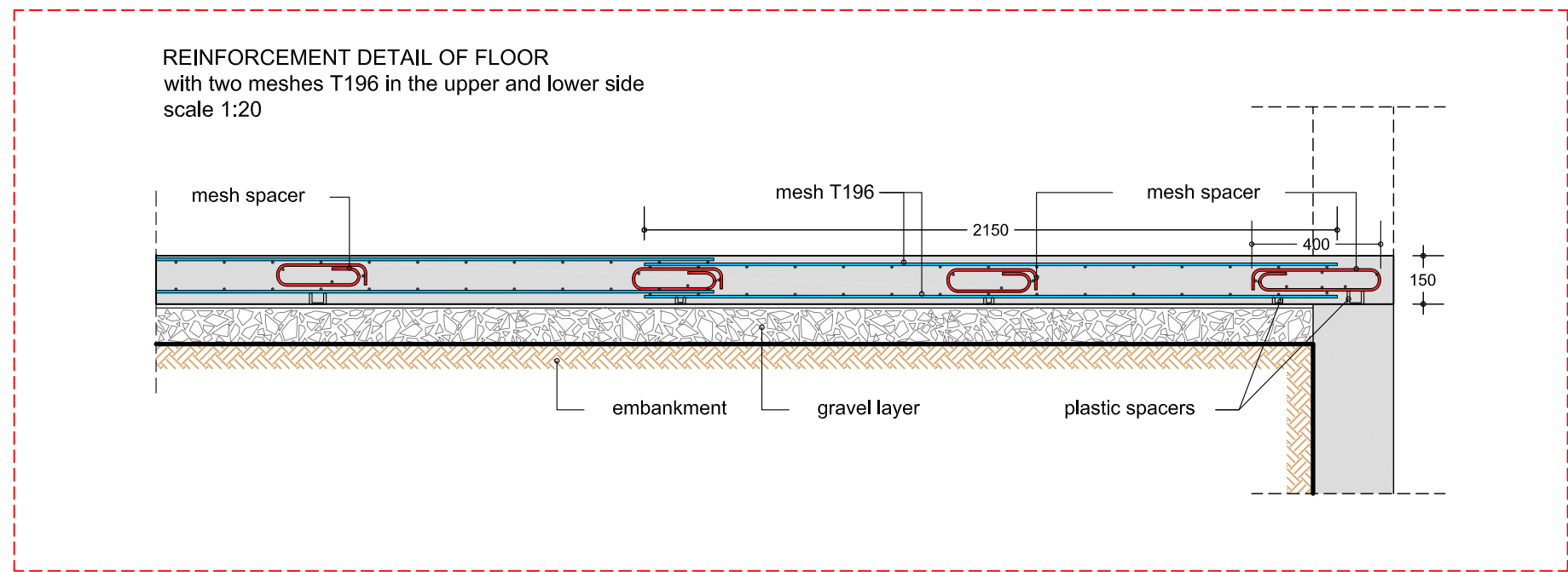




COLUMNS' DETAILS
scale 1:20

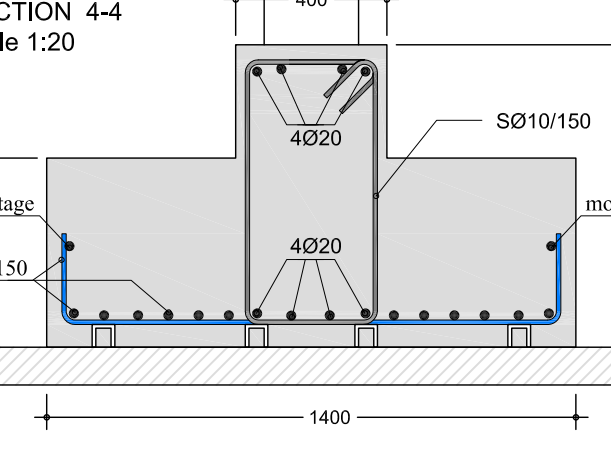
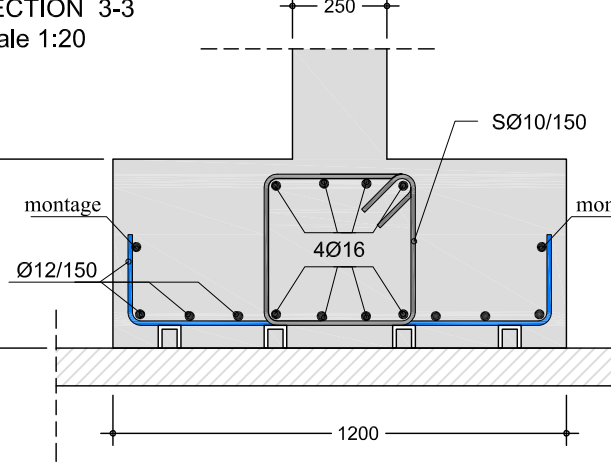
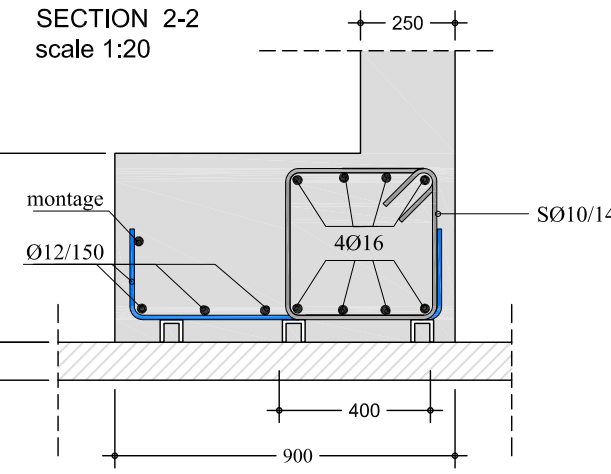
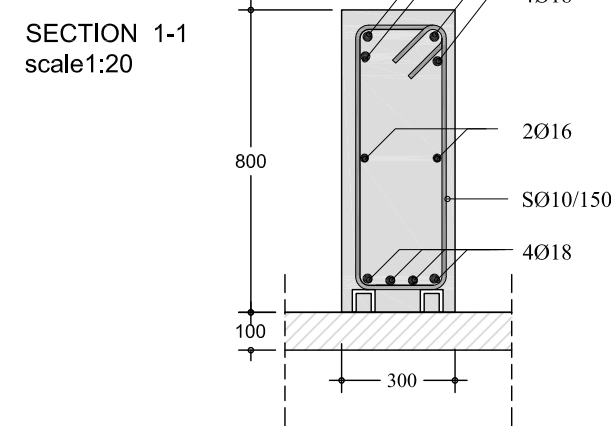


DESIGN ASSUMPTIONS

- MATERIAL
Concrete C30/37
Steel B500C
Stirrups B500C
- Ground stress 0.25 Mpa
- Sismic coefficients
Rdx(k t) : 0.114
Rdy(k t) : 0.114
- REGULATIONS
Loadings ΦEK 325A/45
Con. Reg. ΦEK 315/B/17-04-97
GRRC 2000 - 2003 - 2004
Antiseismic EAC 2000 - 2003
- Future floors : 0
- Antiseismic analysis assumptions
Earthquake zone : I (a=0.16)
Ground category B (T1=0.15, T2=0.60 sec)
Importance category T2 (γ=1.00)
Damping coefficient ζ=5%
Foundation coefficient θ=1
Spectral amplification coefficient β=2.5
Earthquake behavior coefficient q=3.5
- Dead loads
Concrete specific weight 25.00 KN/m³
Single wall weight 2.10 KN/m²
Double wall weigh 3.60 KN/m²
Roof covering 2.00 KN/m²
Slab covering 1.50 KN/m²
- Loadings safety coefficient
Dead loads γg = 1.35
Live loads γq = 1.50
Loadings combination ψ2 = 0.30
- Material covering
a) Slab covering 20 mm
b) Beam covering 25 mm
c) Column covering 25 mm
d) Footing covering 50 mm
- Live loads
House floors 2.00 KN/m²
Office floors 2.00 KN/m²
Balcony floors 5.00 KN/m²
Stair floors 3.50 KN/m²

COMMENTS

- The contractor, the possible super contractors and the project manager ought to be sufficiently informed about the approved from the corresponding authority Health and Safety plan, prior to the beginning of construction works and must follow all safety instructions described in the plan. Furthermore, it is their responsibility to inform all personnel about their obligations and rights according to the Health and Safety regulations and insure the proper implementation of the regulations.
- Protective grounding in foundation according to the E/M plan



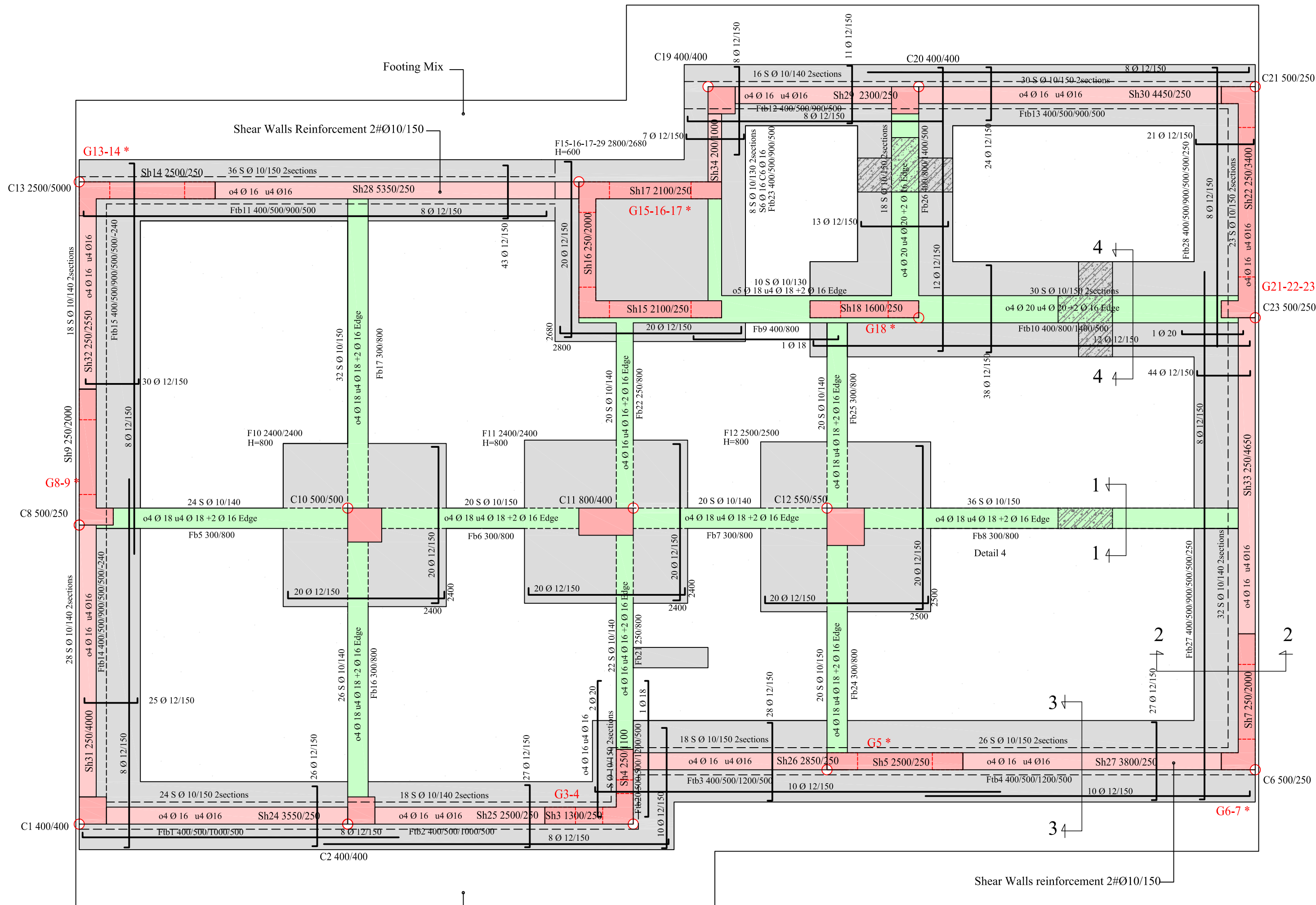
QUANTITIES ESTIMATION

Foundation concrete C30/37:	61 m³	Basement floor membrane:	200 m²	6	ROOF
Formworks:	167 m²	Concrete C30/37 basement floor:	25 m³	5	4th FLOOR
Rebars steel:	4.200 kg	Basement floor steel B500A:	1.340 kg	4	3rd FLOOR
Stirrups steel:	1.010 kg			3	2nd FLOOR
External embankment:	140 m³			2	1st FLOOR
Internal embankment (up to level -3.05):	60 m³			1	MUZZARENE
Gravel embankment:	25 m³			0	GREENHOUSE FLOOR
				-1	BASSEMENT

employer:	EARTHQUAKE RESISTANT BUILDINGS
project:	Drawings sample
location:	VOLUME A'
engineers:	the Author's team

Project type:	STATIC AND DYNAMIC ANALYSIS	date:	03/06/10
Project phase:	DETAILING	Drawing number:	R.20
Drawing subject:	FOUNDATION FORMWORK and basement floor	Drawing:	RC
Scale:	1:50 1:20	Project name:	bkGR
		Revision code:	

ARCHITECTURAL PROJECT:	Stamp, signature:
STATIC ANALYSIS PROJECT	
ELECTRICAL-MECHANICAL PROJECT:	



FLOOR PLAN
scale 1:50