CONSTRUCTION OF THE SURVEY AND GUARD SECURITY BUILDING

Project Title

IMPLEMENTATION OF THE SECURITY OF THE MAIN CENTER OF MUNITIONS AND ARMS SUPPLY OF THE INTERNAL MINISTRY - MULLET SECOND PHASE

Phase

PROJECT OF IMPLEMENTATION

Titulli i Kapitullit

CONSTRUCTION DESIGN

Orderer

UNITED NATIONS DEVELOPMENT PROGRAMME ALBANIA

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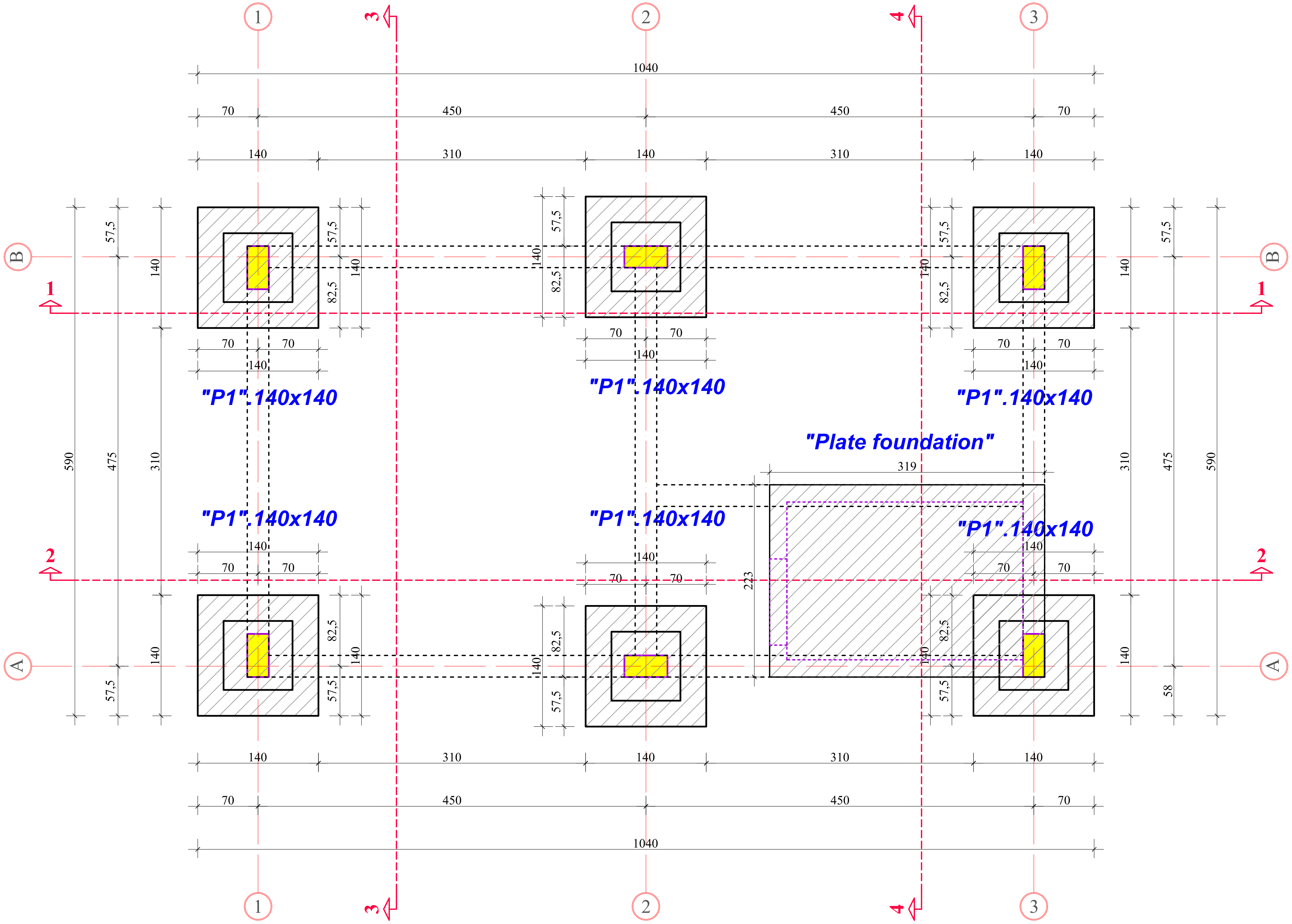
FOUNDATION PLAN

Level -1.50

SC 1 : 50



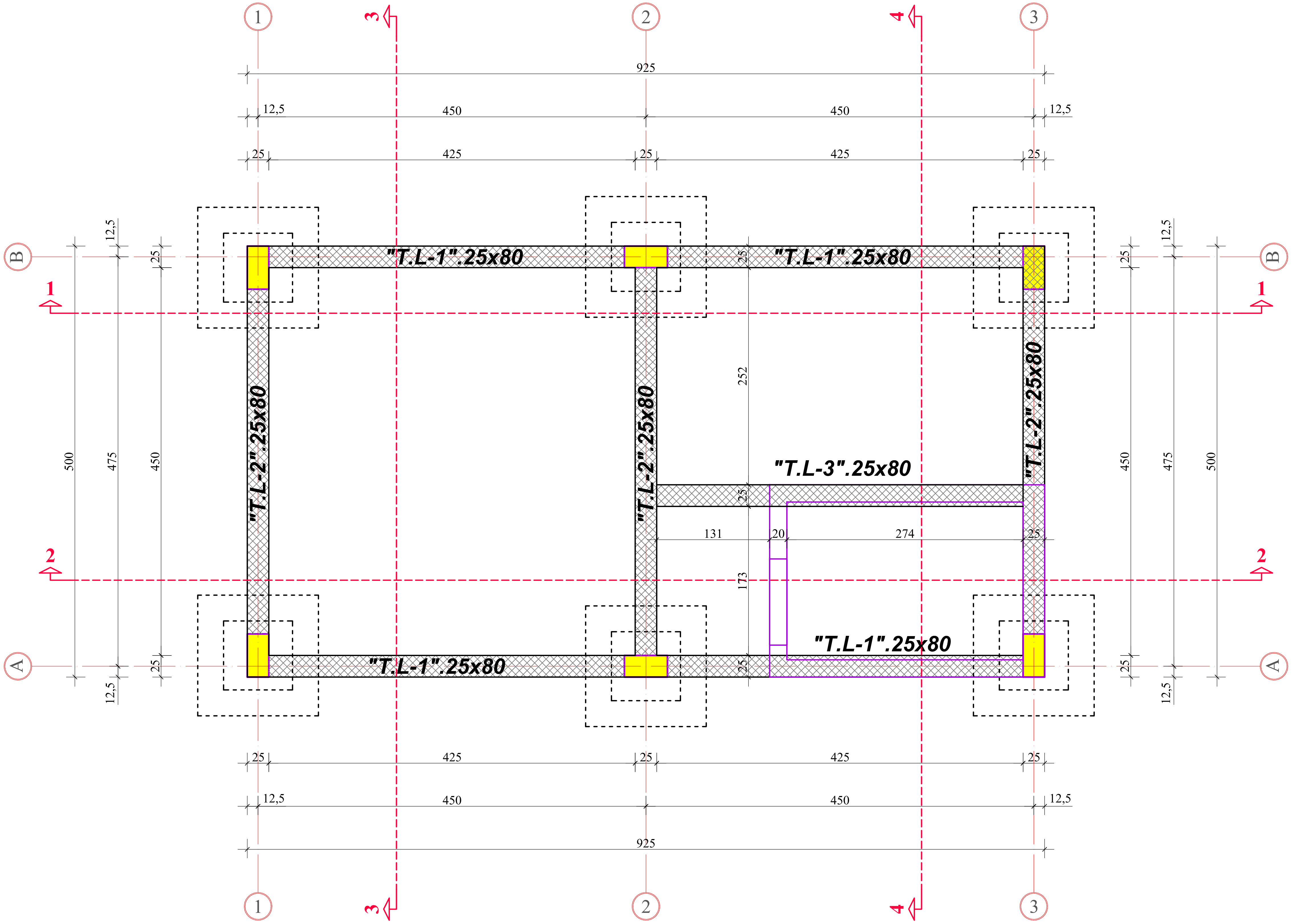
TECHNICAL NOTES

1. The foundations will be supported at a depth of not less than 80cm. Bearing capacity of 200kPa was accepted for foundation calculations.
2. After the basement level is reached, the bearing pressure of soil must be checked from a geolog engineer. If bearing pressure of soil results lower than the indecated pressure in the project, the structural engineer must be contacted.
3. The foundations will be realized with plinths with 140x140cm dimensions in plan and plate foundation with thickness t = 40cm, only for the part of RAK room.
4. For the realization of foundations, will be used concrete C25/30 with resistance fck=30 N/mm² and steel S-500s_with fyk=500 N/mm² .

CONNECTION FOUNDATION BEAMS PLAN

Level -0.80

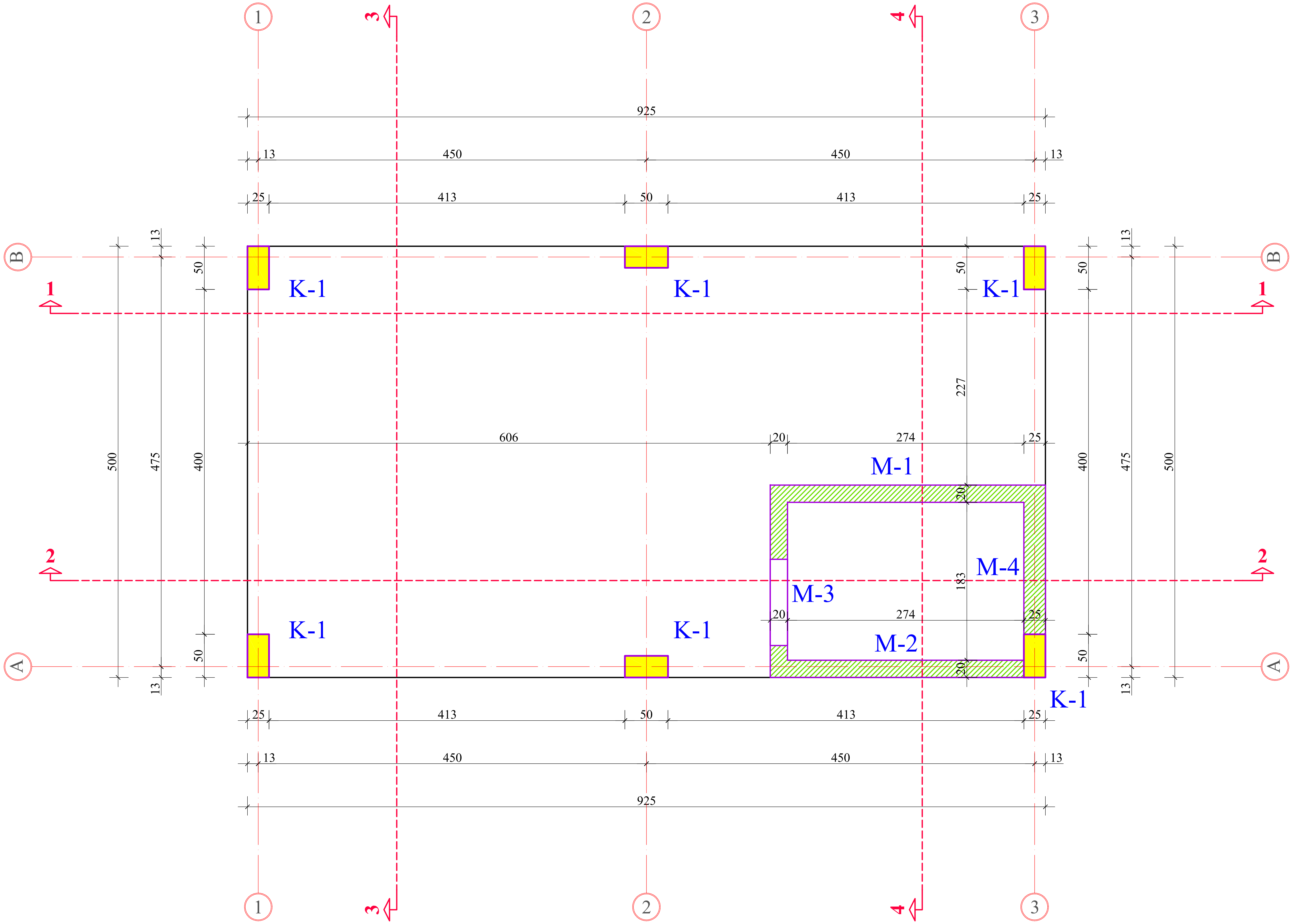
SC 1 : 50



TECHNICAL NOTES

1. On the foundations will be realized the connecting beams
2. The armature of the connecting beams are given in separate sheets that are attached to the project
3. For the realization of connection foundations, will be used concrete C25/30 with resistance fck=30 N/mm² and steel S-500s_with fyk=500 N/mm² .

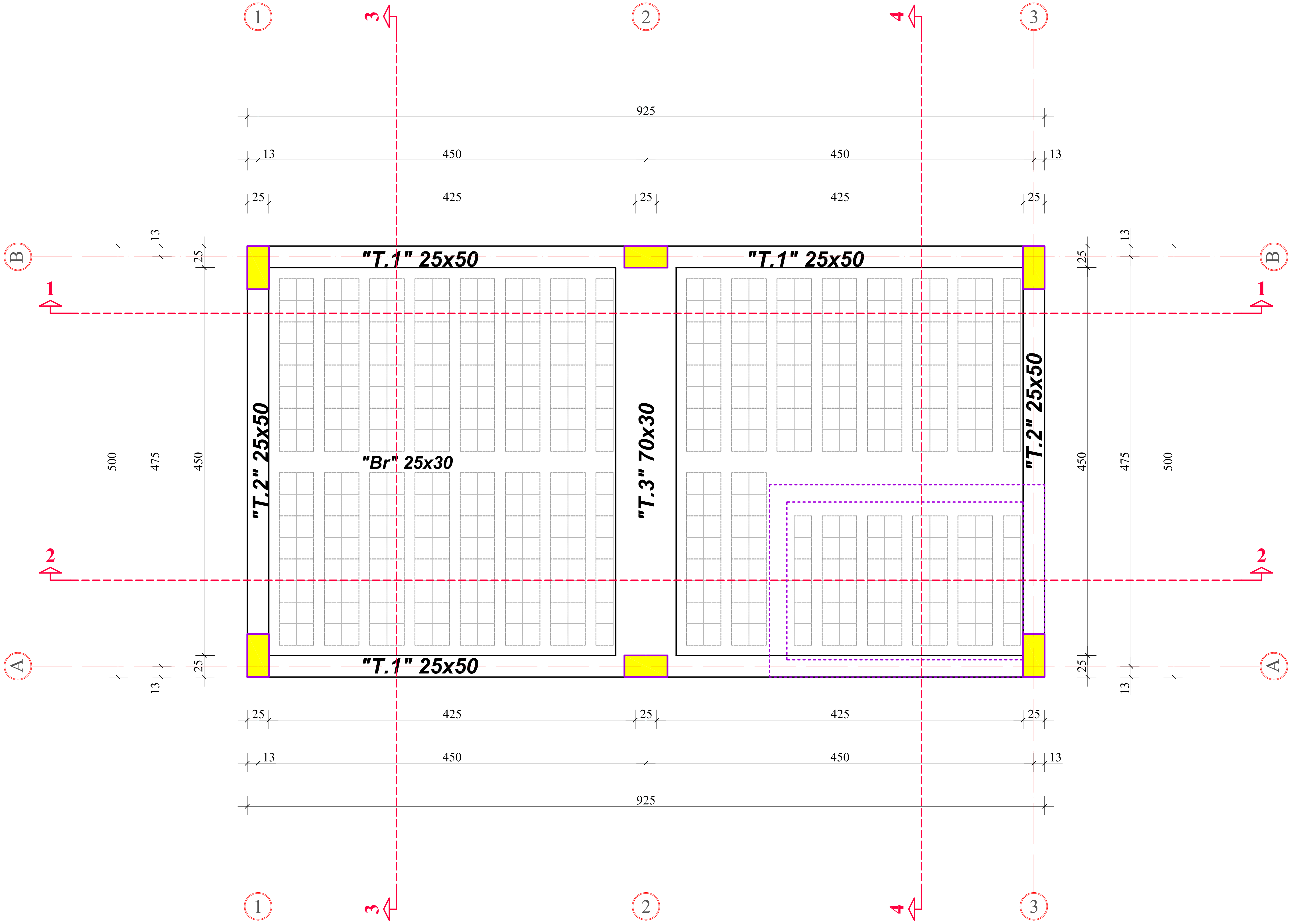
PLAN OF COLUMNS,
Level +0.00
SC. 1:50



TECHNICAL NOTES

1. In the realization of columns and walls, will be used concrete C25 / 30, Steel n S-500s or equivalent. The protective layer will be 2.5cm from the stirrups.

STRUCTURAL PLAN
Level +3.30
SC 1 : 50

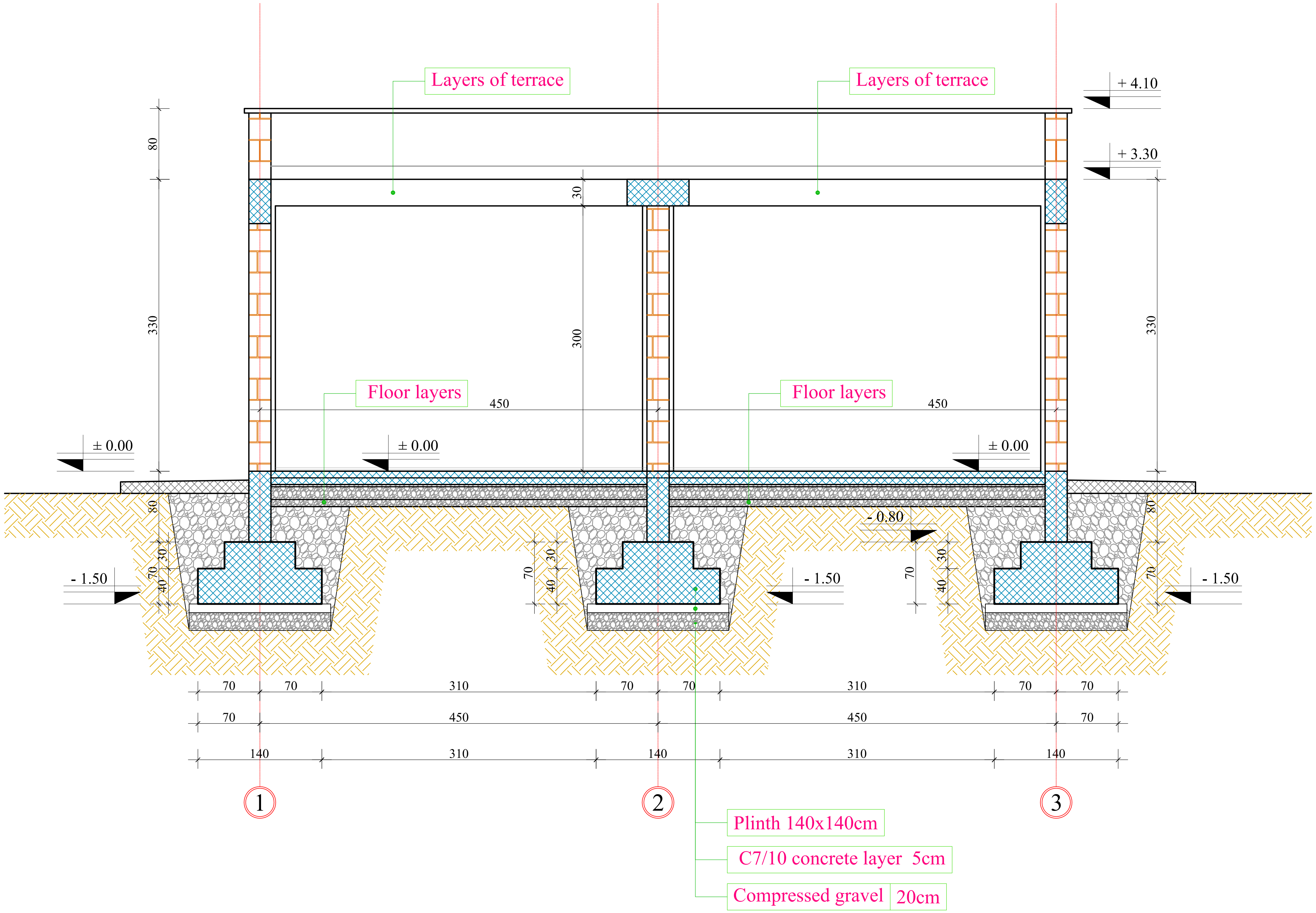


TECHNICAL NOTES

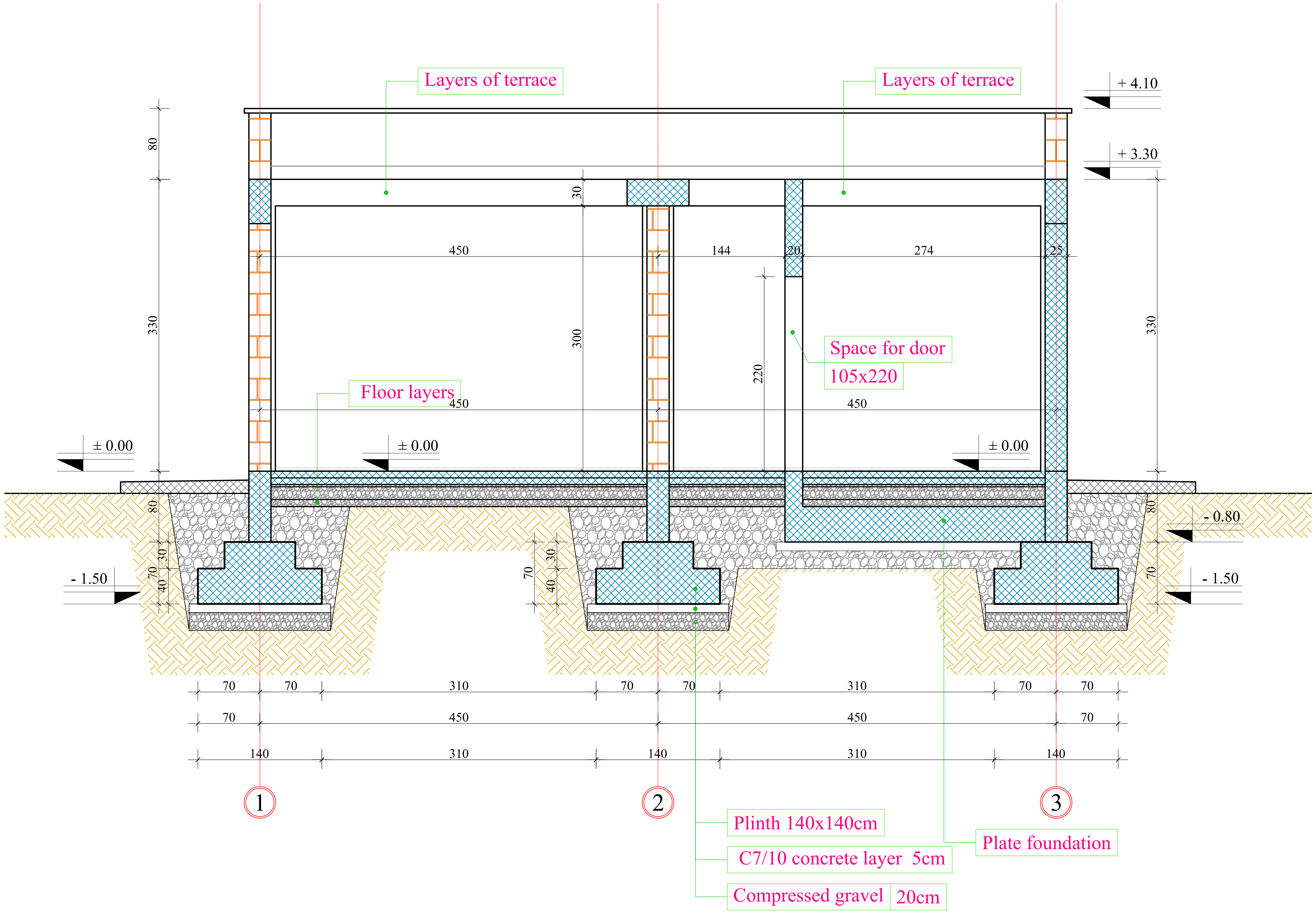
1. Floors will be constructed with ribbed slabs, filled with bricks. Thickness of the slab will be 25+5=30cm.
2. Top and bottom reinforcement of ribs and cantilevers will be taken at the respective sheets (see top and bottom reinforcement).
3. In construction of beams and slabs will be used C25/30 Concrete , S-500S reinforcing steel.
4. Concrete cover of beams will be 2.5cm from the side of the stirrup, and for slabs and stairs will be 1.5cm.
5. Grate Ø8 in top reinforcement, will be taken 4kg steel / m² slab.
6. The position of the ribs shown in the project must be respected correctly. Part of slab boundary with beams, always start with ribs.

SECTION 1-1

SC 1 : 50

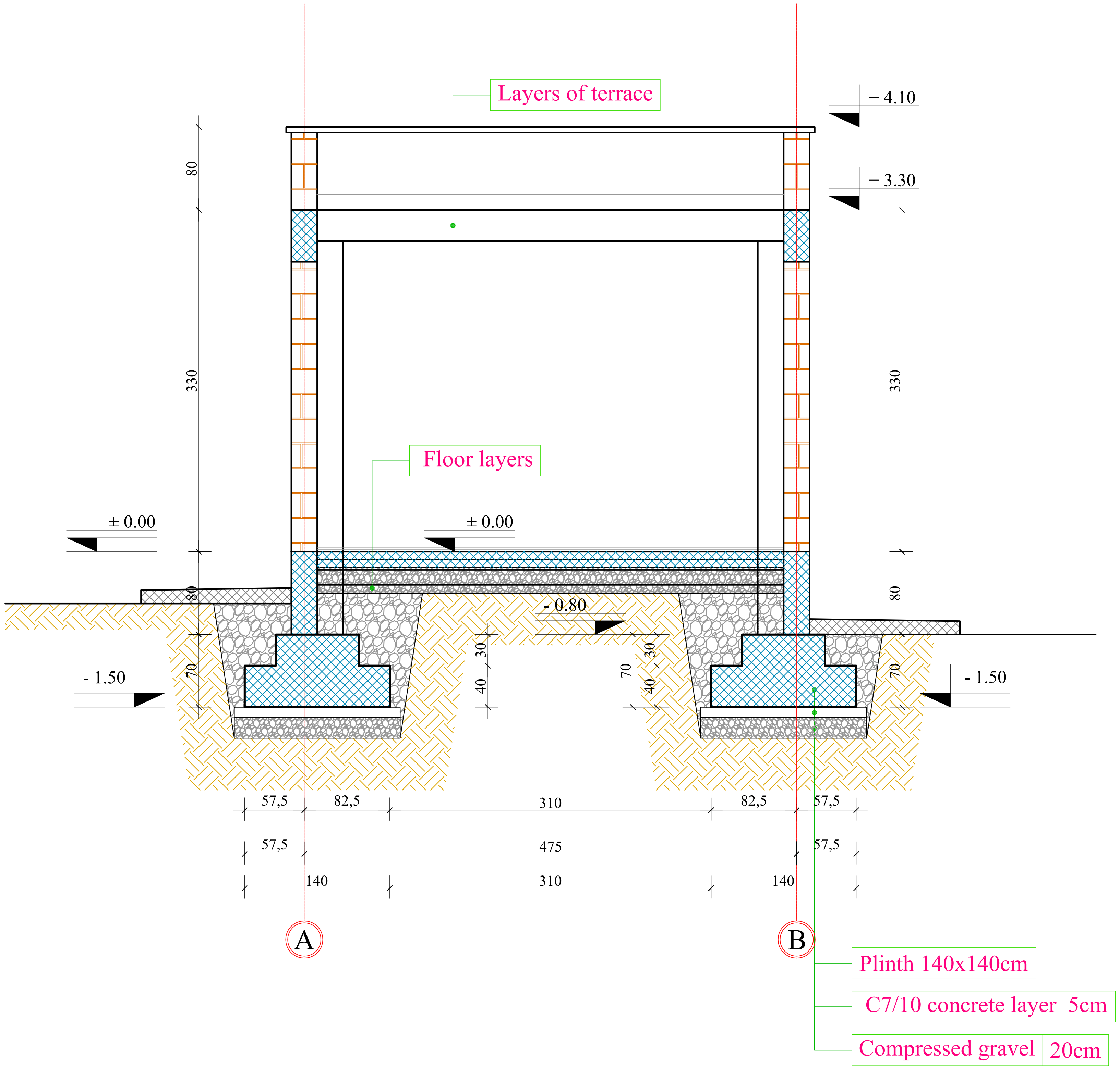


SECTION 2-2
SC 1 : 50



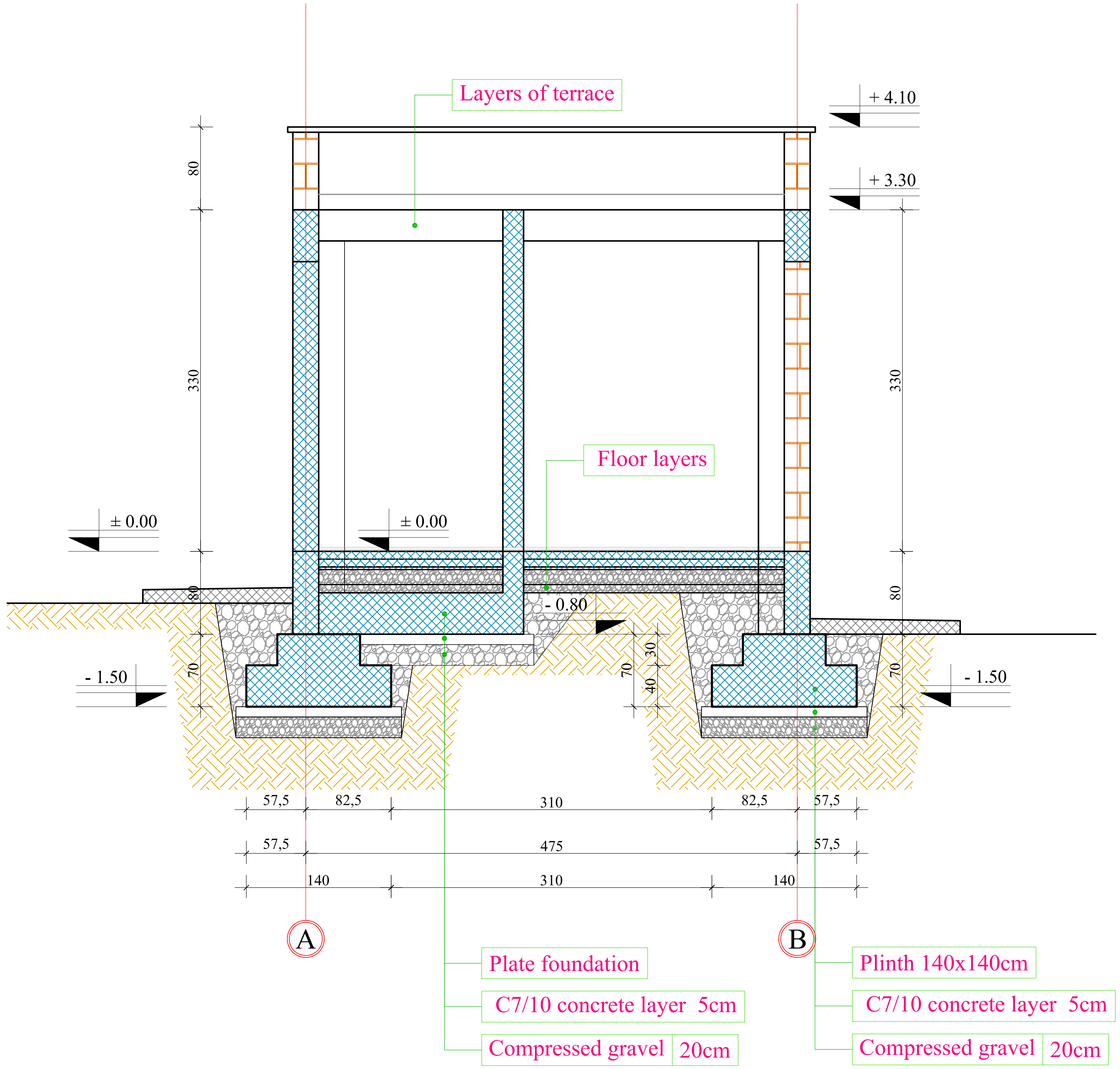
SECTION 3-3

SC 1 : 50

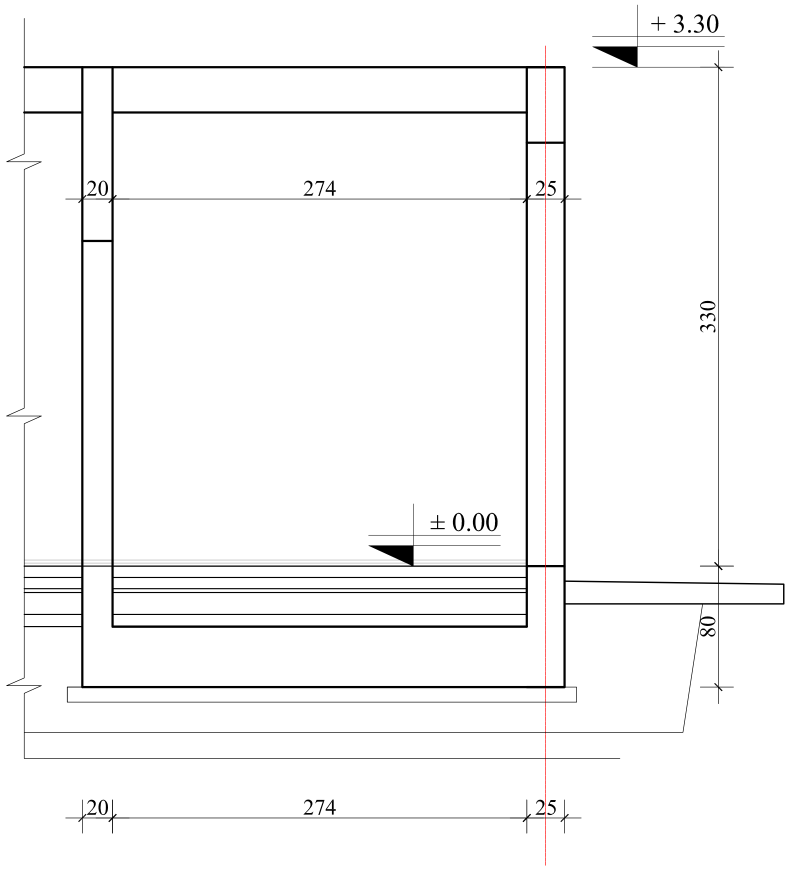


SECTION 4-4

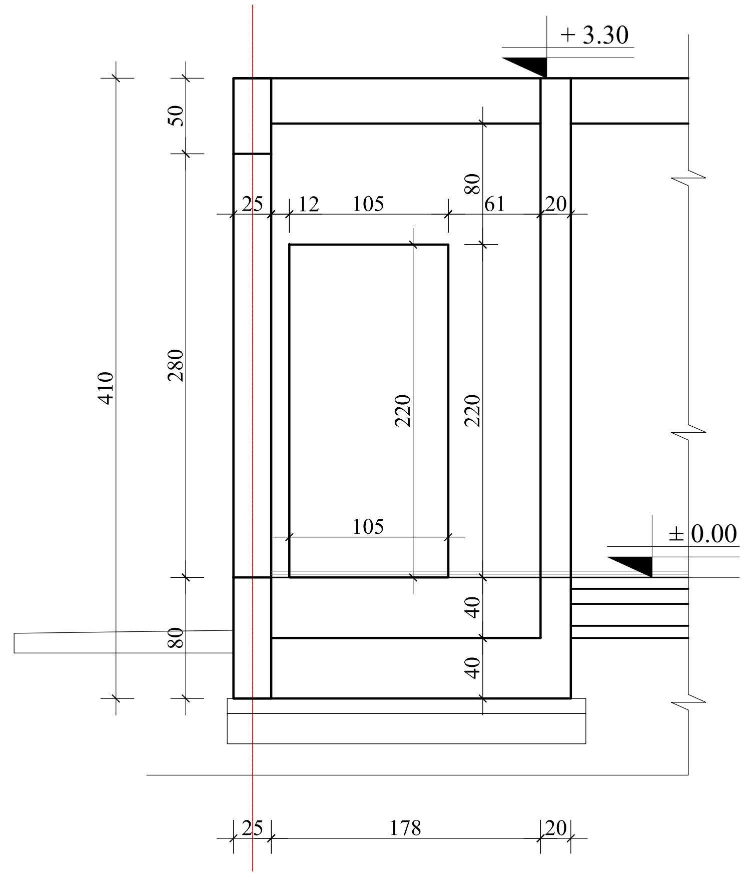
SC 1 : 50



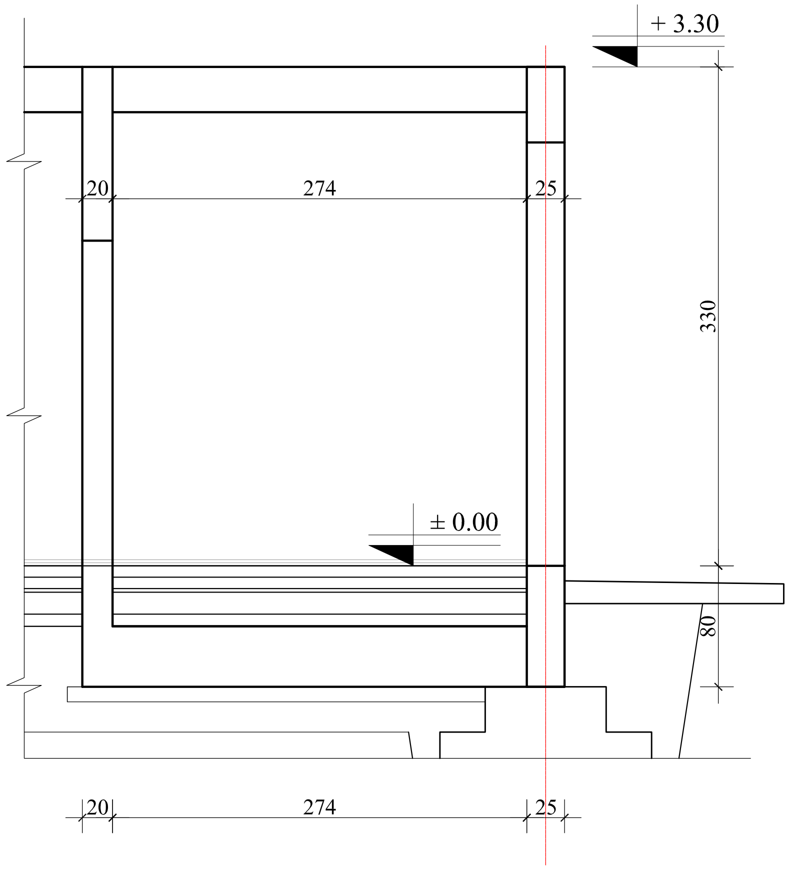
CONCRETE WALL "M-1"
SC 1 : 50



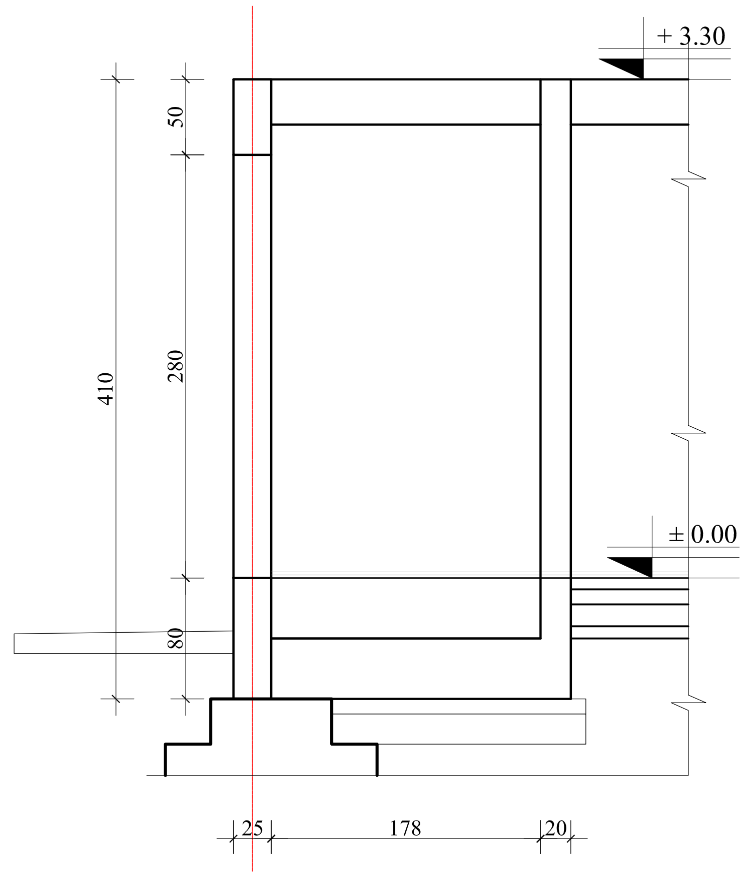
CONCRETE WALL "M-3"
SC 1 : 50



CONCRETE WALL "M-2"
SC 1 : 50



CONCRETE WALL "M-4"
SC 1 : 50

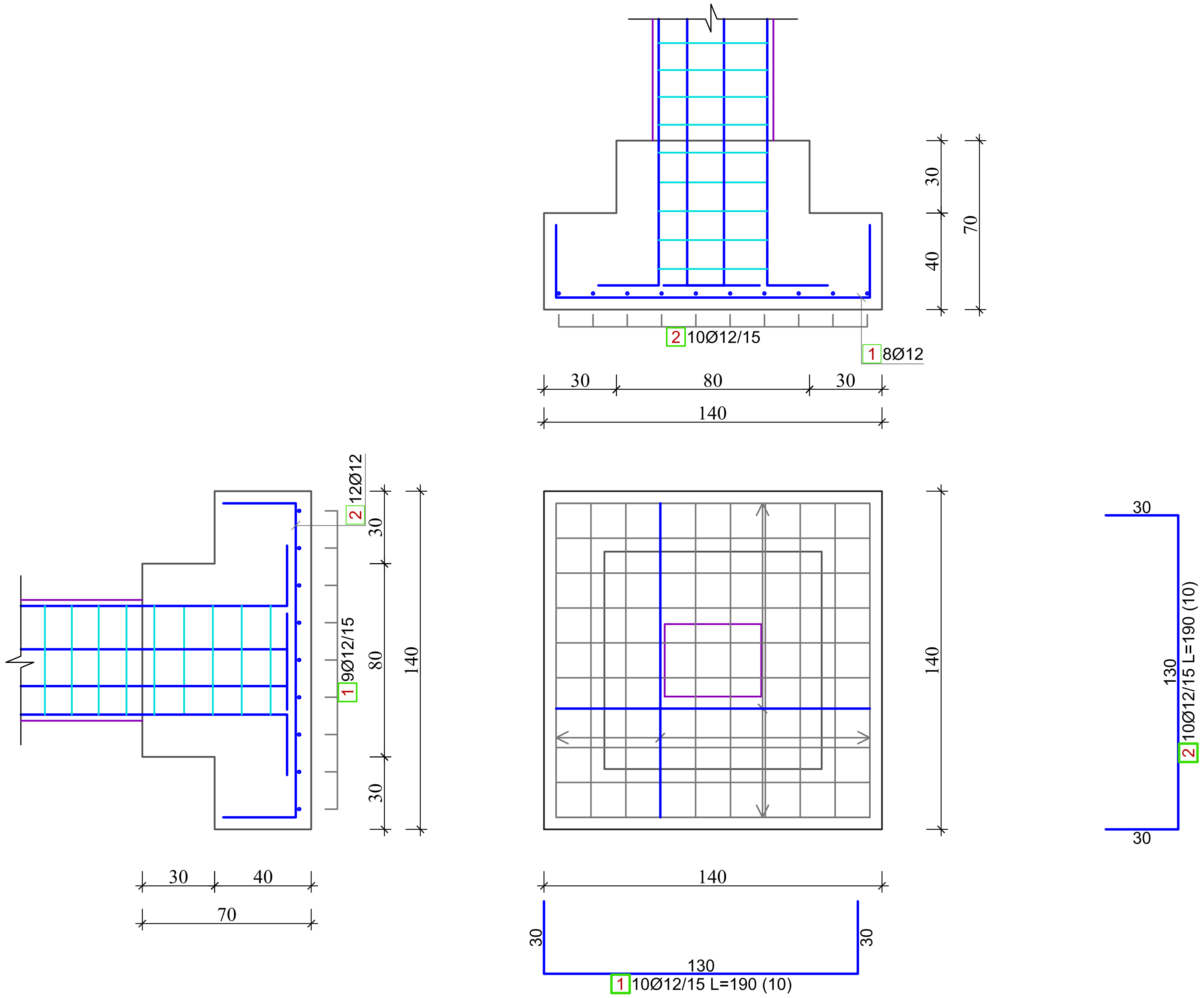


TECHNICAL NOTES

1. The concrete walls M1-M3 will be realize with 20cm thickness, while M4, 25cm.
2. The reinforcement of the walls are given in special sheets that are attached to the project.
3. In the realization of the walls will be used Concrete C25/30, Steel S-500s or equivalent.
4. The protective layer of the columns will be 2.5cm from the steel bars.

REINFORCEMENT OF THE PLINTH (140x140)

SH 1 : 25



SPECIFICATION TABLE OF REINFORCEMENT					
Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
The plinth P-1 (140x140) (6 pcs)					
1	30 130 30	12	1.90	6*10	114.00
2	130 30 30	12	1.90	6*10	114.00

Summary Table			
Ø [mm]	Total length [m]	Unit weight [kg/m']	Weight [kg]
Concrete C25/30, Reinforcing Steel S-500s			
12	228.00	0.89	202.46
Gjithsej			202.46

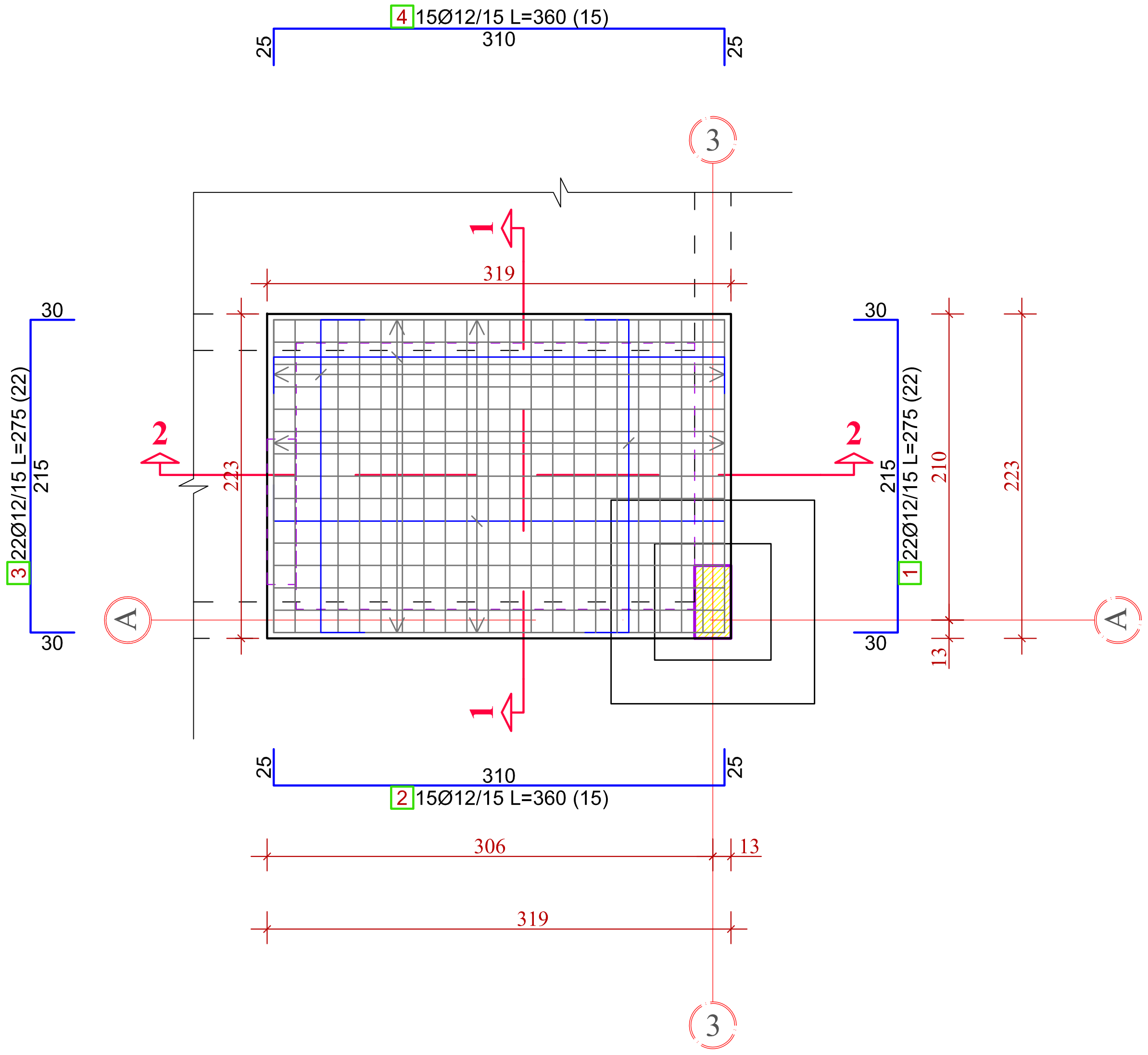
SHENIME:

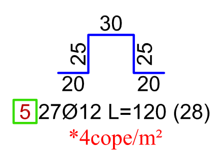
- Armimi i plintit 140x140 dhene me siper eshte i njejte per te gjithe plintat e objektit.
- Perpara realizimit te themeleve, te verifikohet ne vend aftesia mbajtese e tabanit e cila duhet te jete jo me pak se 200-220kPa.
- Te merren masa ne realizimin e nje jastiku prej zhavori, te cilindruar, nese nuk arrihet aftesia mbajtese e kerkuar.
- Per strukturen b/arme do perdoret beton C25/30 dhe hekur S500-s

1. The plinth armature 140x140 given above is the same for all plinths of the building.
2. Advancing the basic realization, you are verified instead of the ability to hold the sole and where it can be not less than 200-220kPa.
3. Measures should be taken in the realization of a pre-emptive cushion, cylindrical, if the required bearing capacity is not achieved.
4. C25 / 30 concrete and S500 iron will be used for the b / weapon structure

REINFORCEMENT OF FOUNDATION SLAB

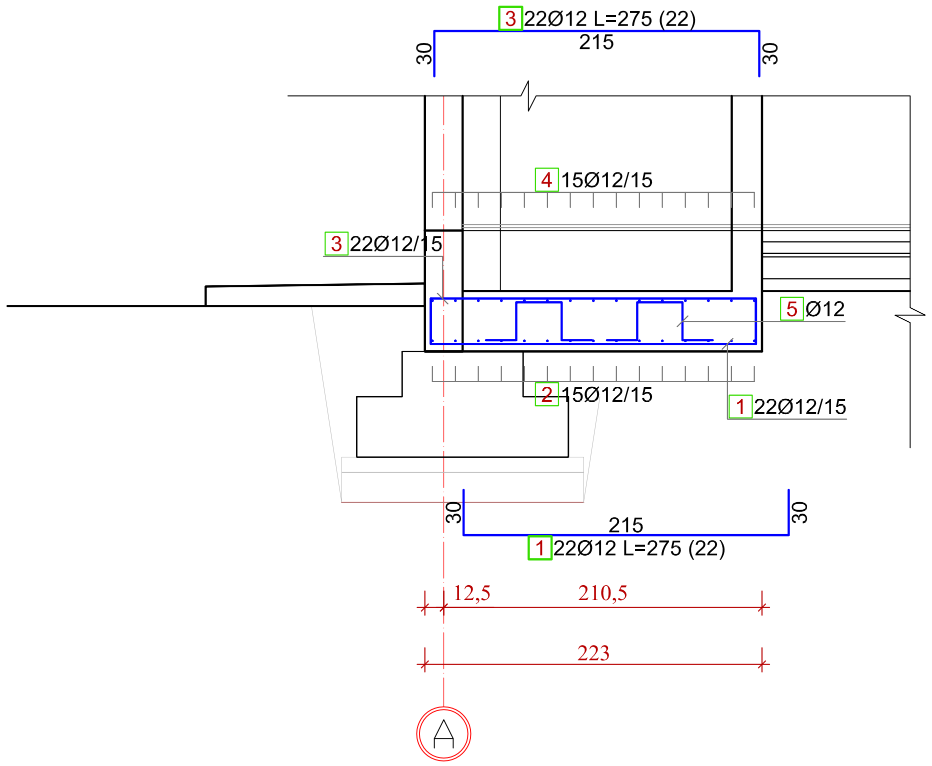
Sc 1 : 50





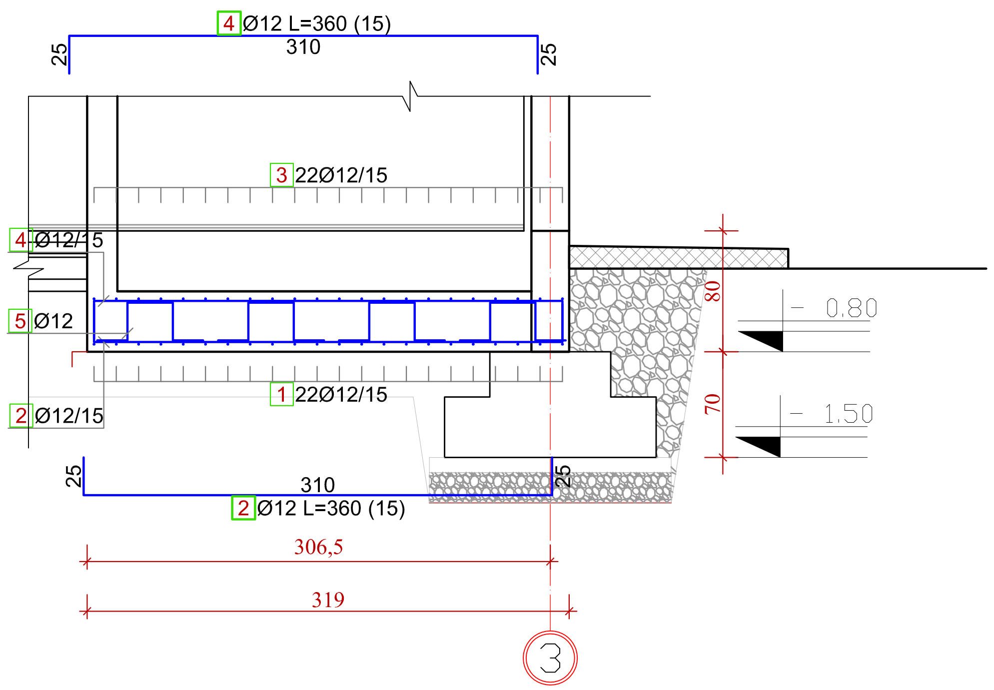
SECTION 1-1

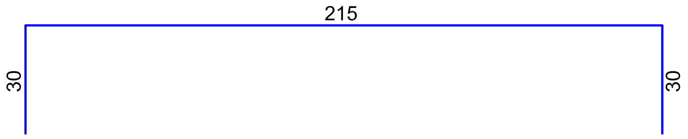
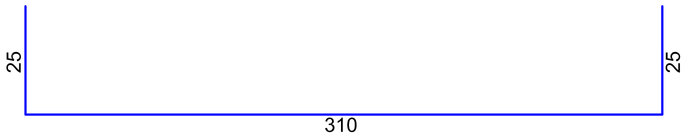
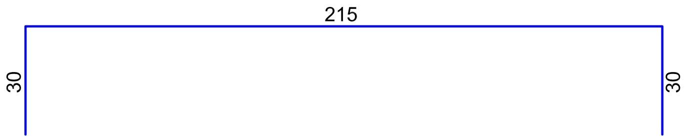
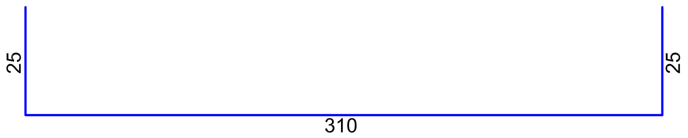
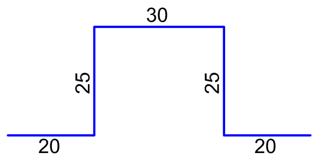
SH 1 : 50



SECTION 2-2

SH 1 : 50

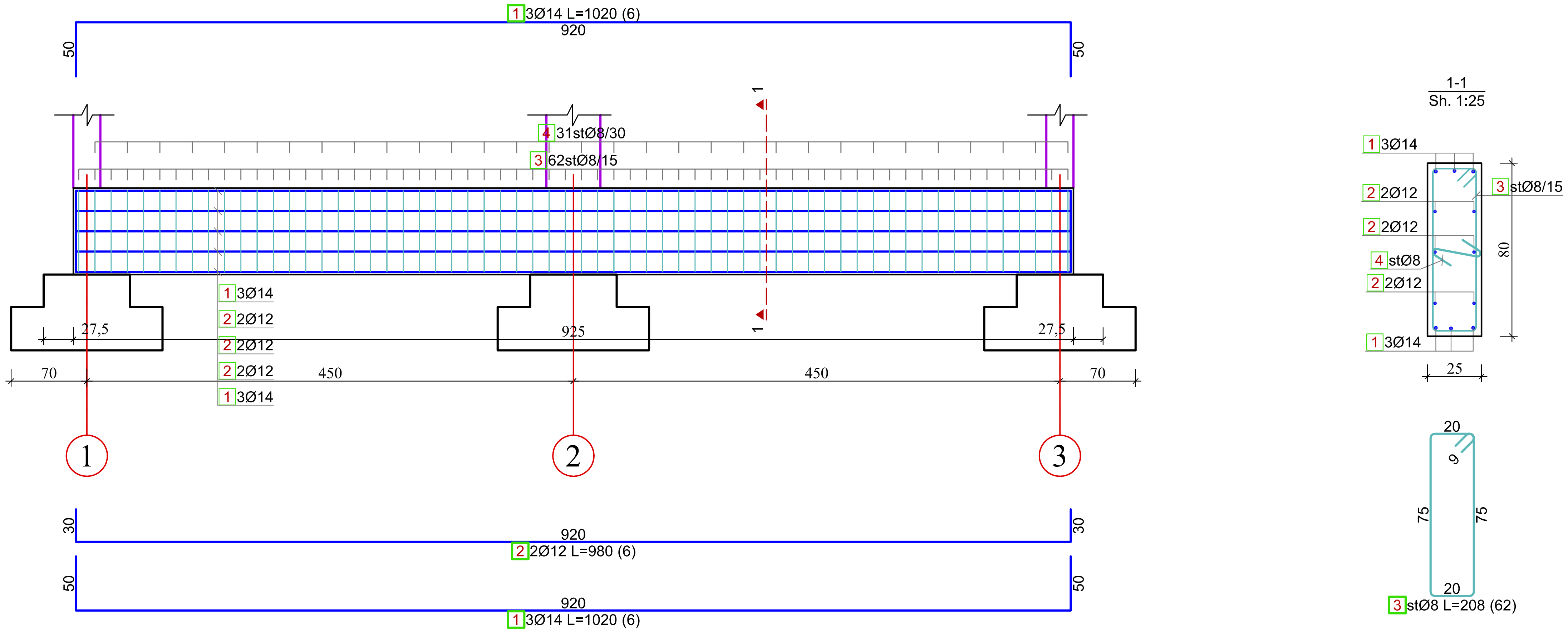


SPECIFICATION TABLE OF REINFORCEMENT					
Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
Reinforcement of foundation slab (1 pcs)					
1		12	2.75	22	60.50
2		12	3.60	15	54.00
3		12	2.75	22	60.50
4		12	3.60	15	54.00
5		12	1.20	28	33.60

Summary Table			
Ø [mm]	Total length [m]	Unit weight [kg/m']	Weight [kg]
Concrete C25/30, Reinforcing Steel S-500s			
12	262.60	0.89	233.19
Total			233.19

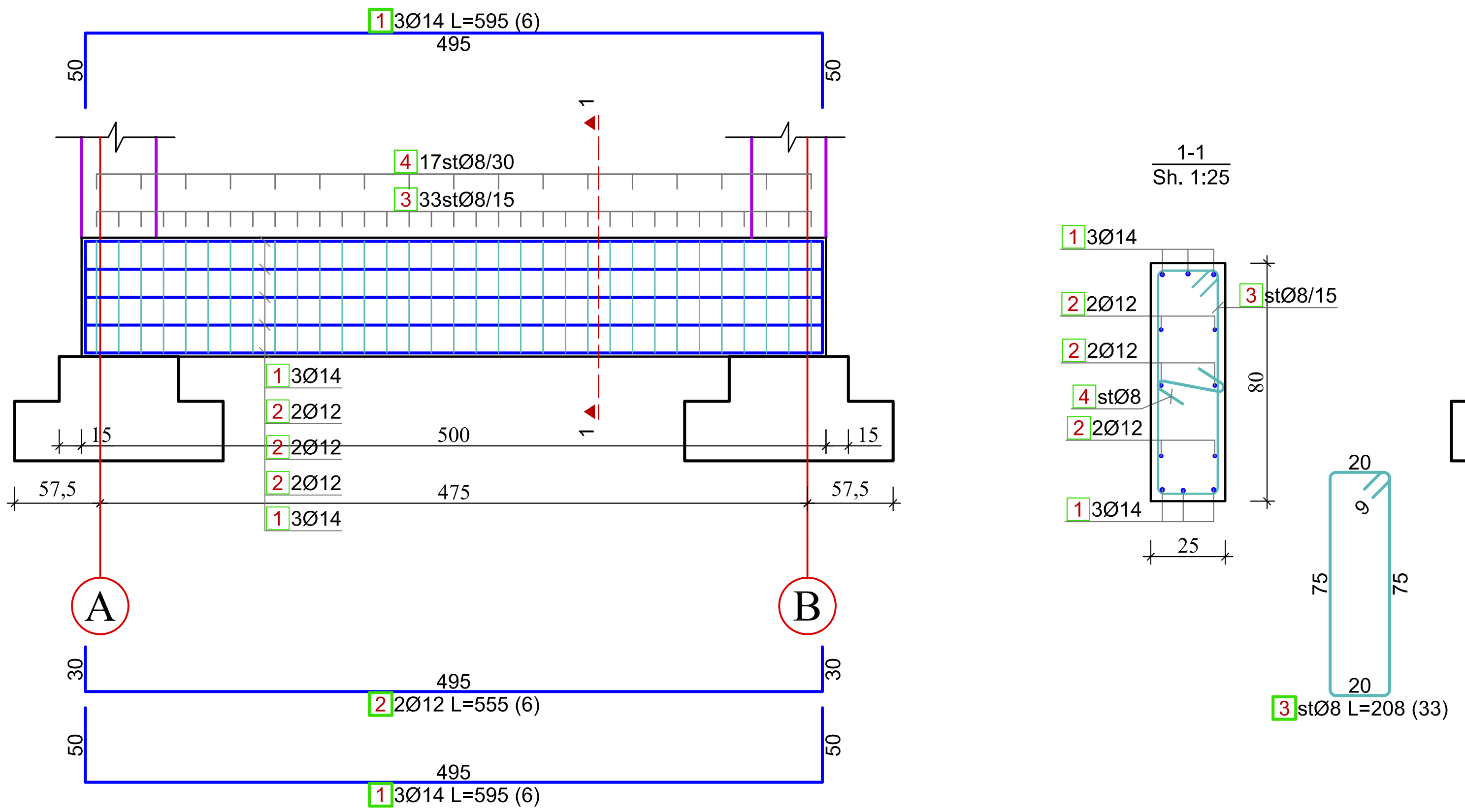
Reinforcement of connector beam "T-1"

Sh 1 : 50



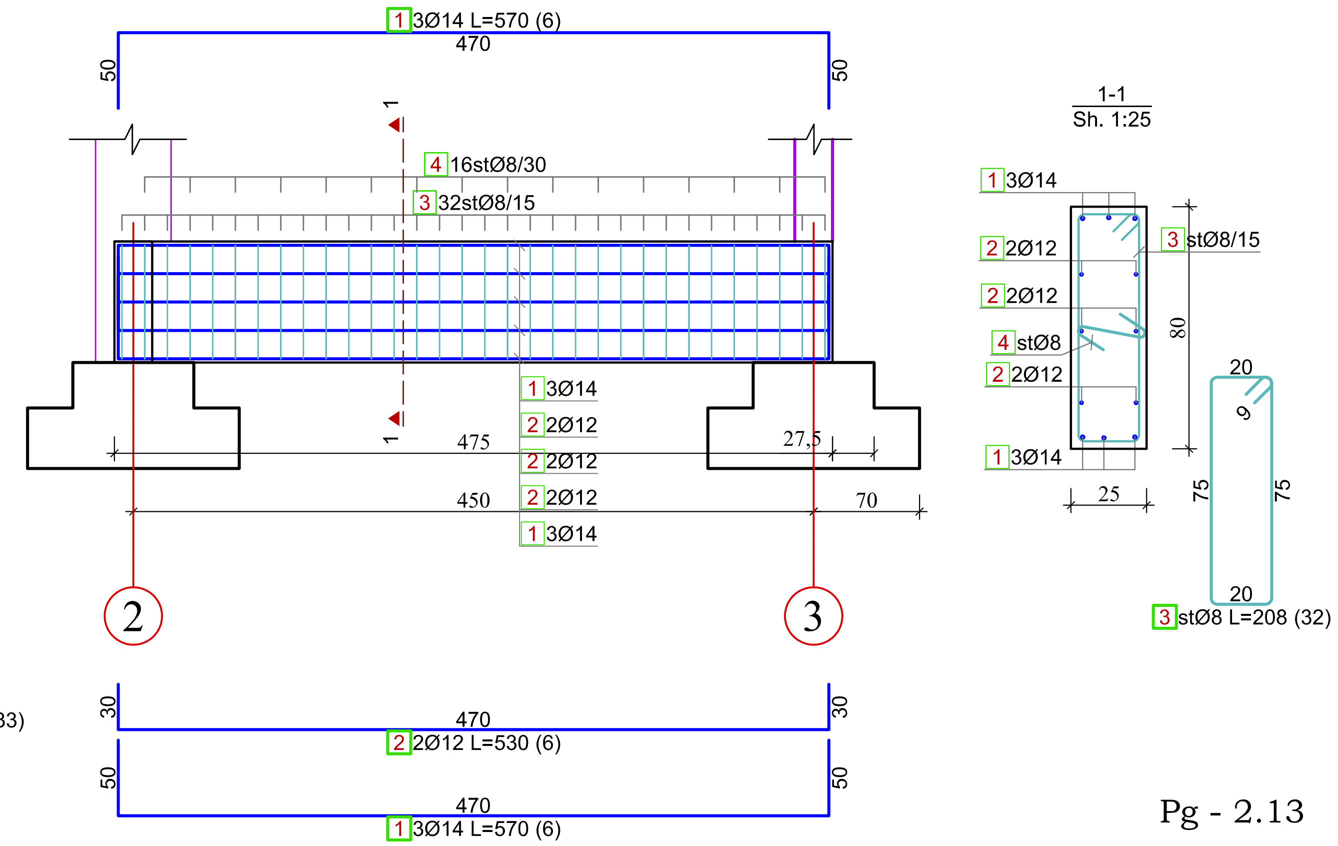
Reinforcement of connector beam "T-2"

Sh 1 : 50



Reinforcement of connector beam "T-3"

Sh 1 : 50



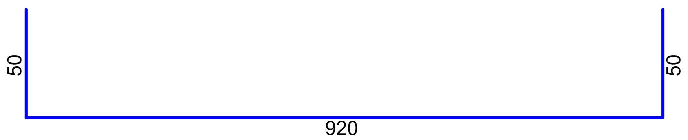
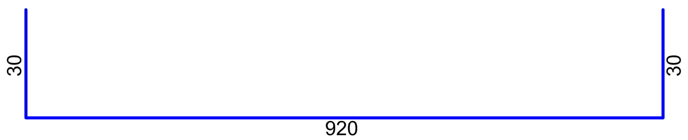
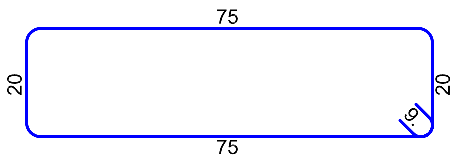
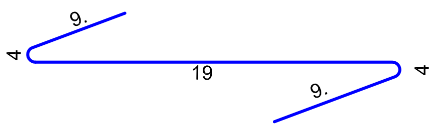
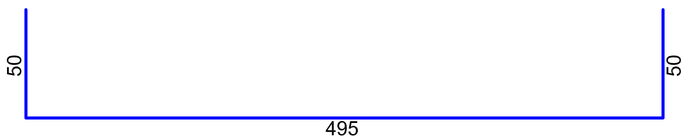
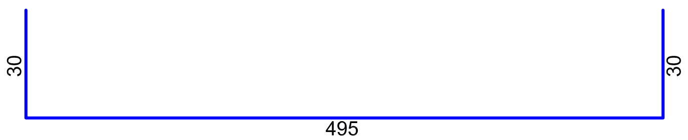
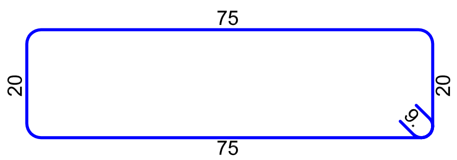
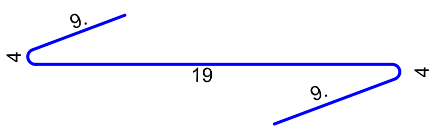
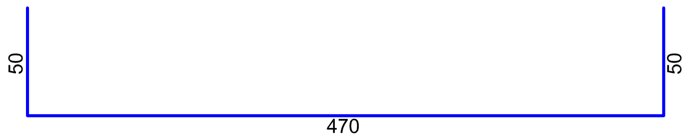
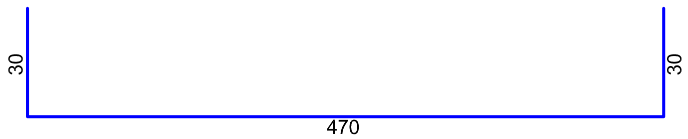
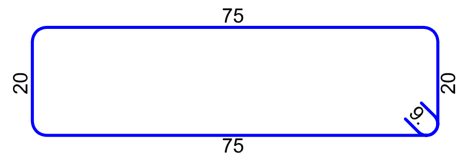
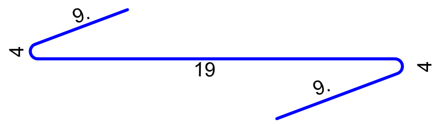
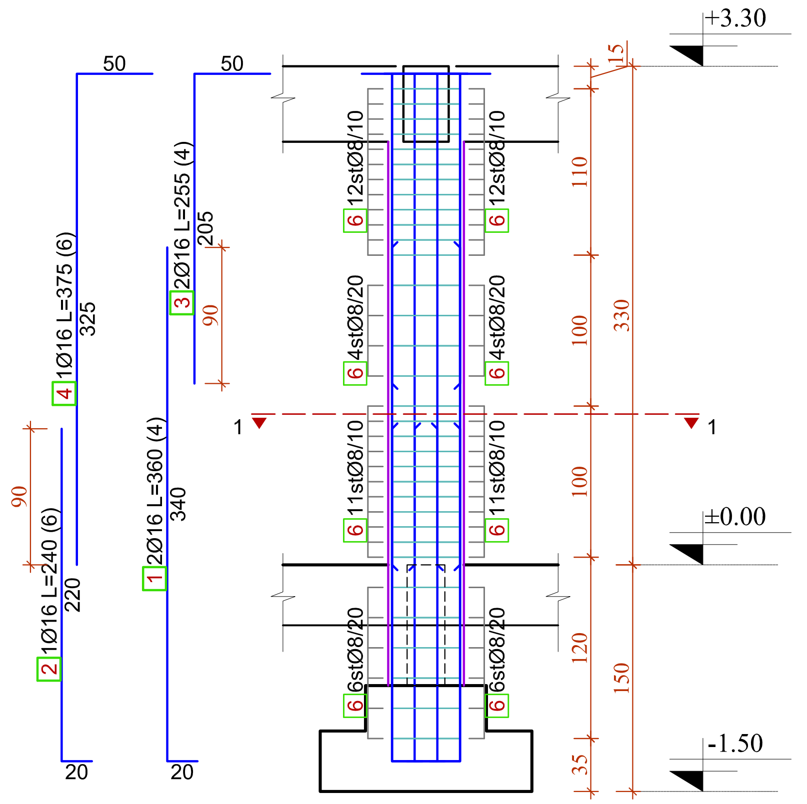
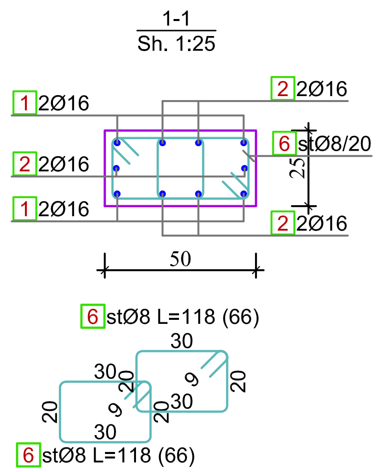
SPECIFICATION TABLE OF REINFORCEMENT					
Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
Reinforcement of connector beam "T-1" (2 copë)					
1		14	10.20	12	122.40
2		12	9.80	12	117.60
3		8	2.08	124	257.92
4		8	0.45	62	27.90
Reinforcement of connector beam "T-2" (3 copë)					
1		14	5.95	18	107.10
2		12	5.55	18	99.90
3		8	2.08	99	205.92
4		8	0.45	51	22.95

Tabela e Specifikimit te Armatures					
Tipi	Forma dhe gjatësitë [cm]	Ø	Gjatesia [m]	n [copë]	Gjatesia Totale [m]
Reinforcement of connector beam "T-3" (1 copë)					
1		14	5.70	6	34.20
2		12	5.30	6	31.80
3		8	2.08	32	66.56
4		8	0.45	16	7.20

Summary Table			
Ø [mm]	Total length [m]	Unit weight [kg/m']	Weight [kg]
Concrete C25/30, Reinforcing Steel S-500s			
8	588.45	0.40	232.44
12	249.30	0.89	221.38
14	263.70	1.21	319.08
Total			772.89

REINFORCEMENT OF COLUMN K-1
SH 1 : 50

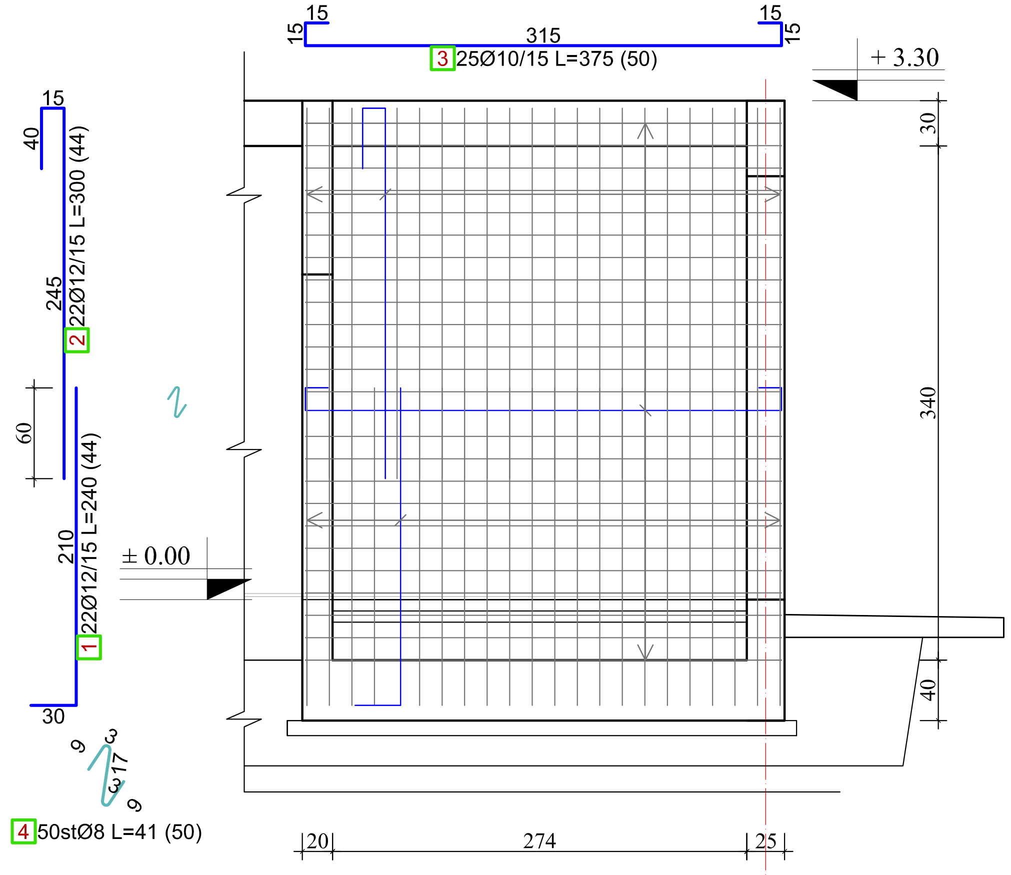




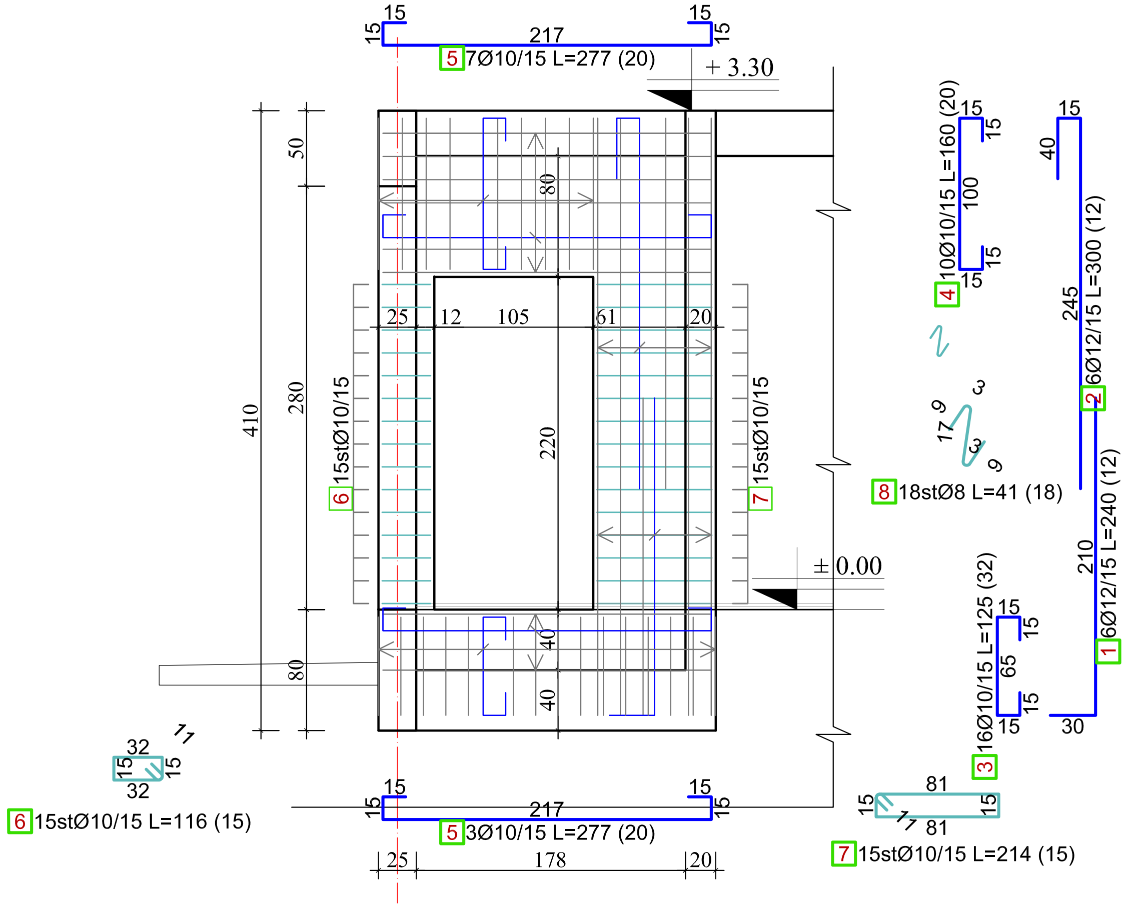
SPECIFICATION TABLE OF REINFORCEMENT					
Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
Reinforcement of column K-1 (6 pcs)					
1	20 / 340	16	3.60	24	86.40
2	20 / 220	16	2.40	36	86.40
3	205 / 50	16	2.55	24	61.20
4	50 / 325	16	3.75	36	135.00
6	30 / 20 / 20 / 30 / 9	8	1.18	396	467.28

Summary Table			
Ø [mm]	Total length [m]	Unit weight [kg/m']	Weight [kg]
Concrete C25/30, Reinforcing Steel S-500s			
8	467.28	0.40	184.58
16	369.00	1.58	583.02
Gjithsej			767.60

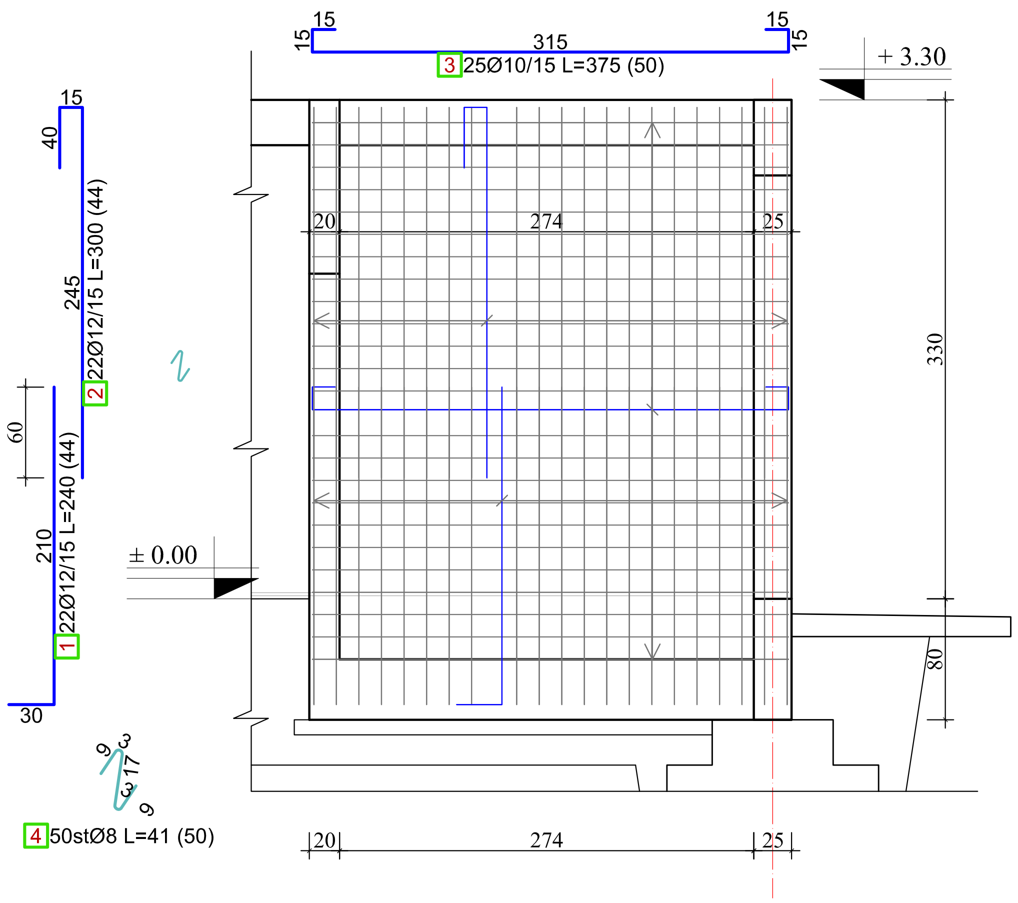
Concrete wall "M-1"
Sc 1 : 50



Concrete wall "M-3"
Sc 1 : 50



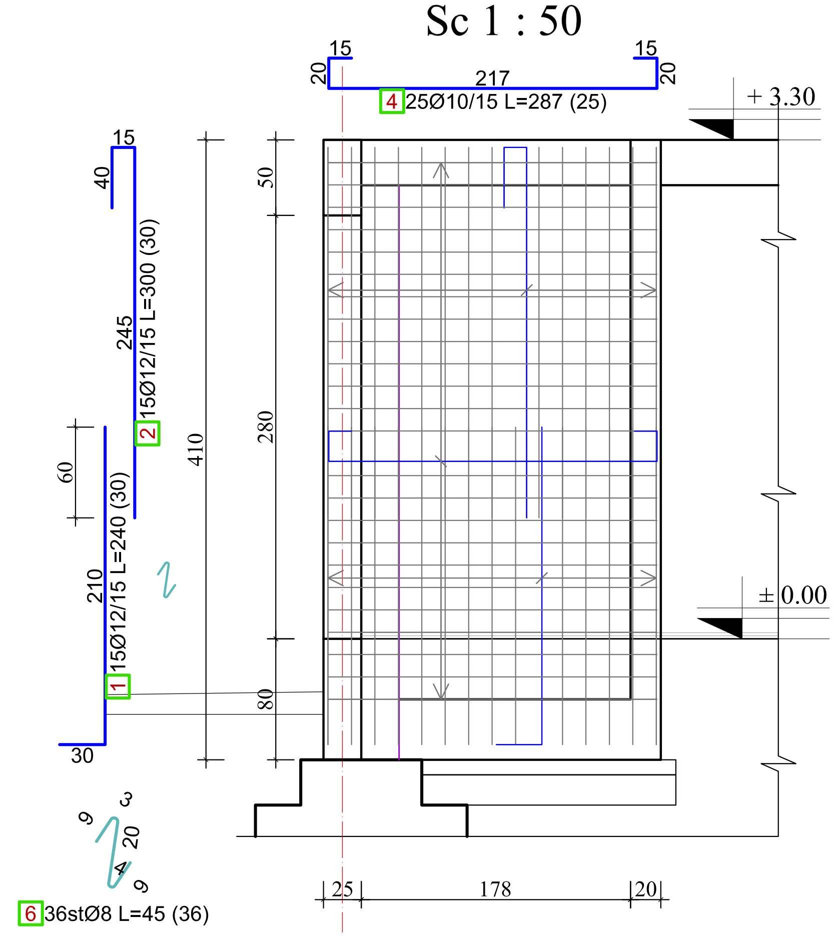
Concrete wall "M-2"
Sc 1 : 50



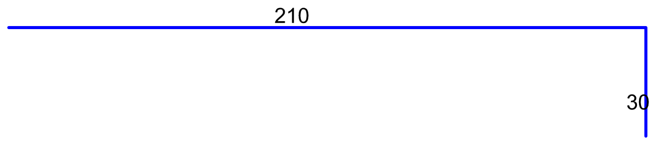
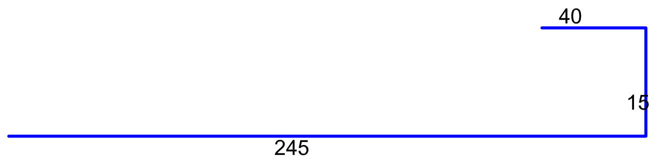
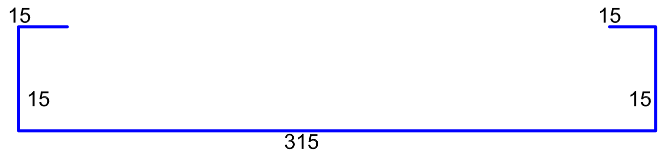
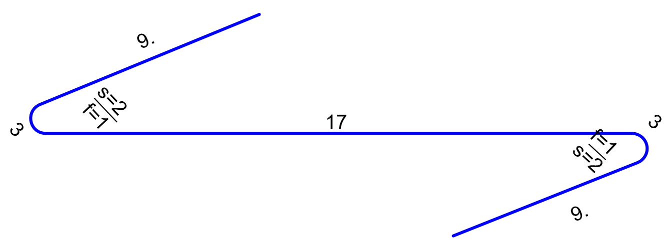
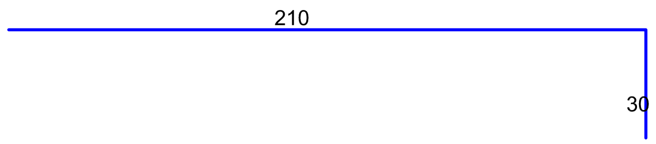
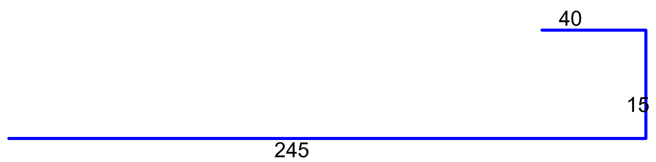
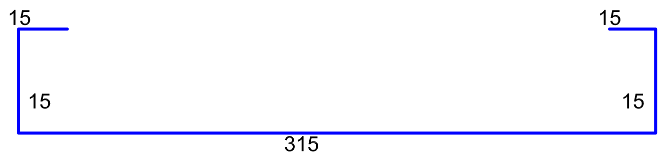
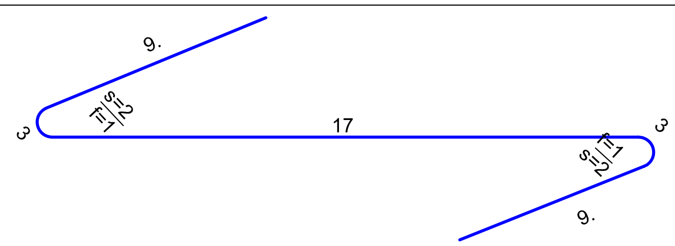
TECHNICAL NOTES

1. The concrete walls M1-M3 will be realize with 20cm thickness, while M4, 25cm.
2. The reinforcement of the walls are given in special sheets that are attached to the project.
3. In the realization of the walls will be used Concrete C25/30, Steel S-500s or equivalent.
4. The protective layer of the columns will be 2.5cm from the steel bars.

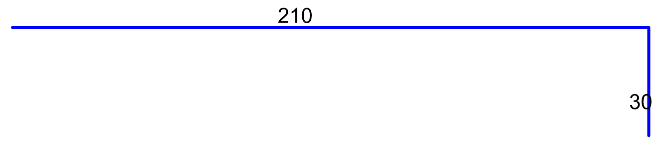
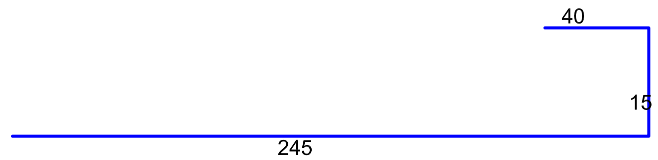
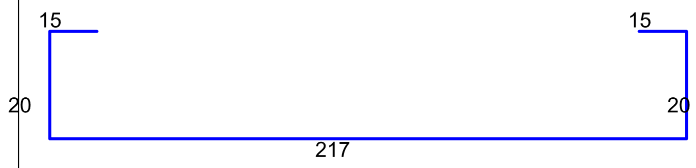
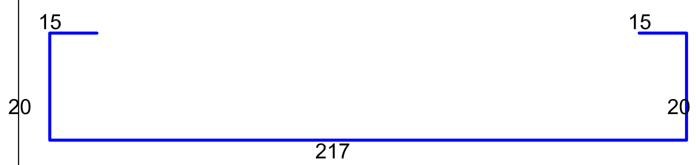
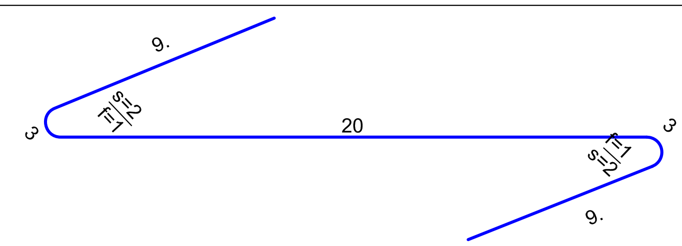
Concrete wall "M-4"
Sc 1 : 50

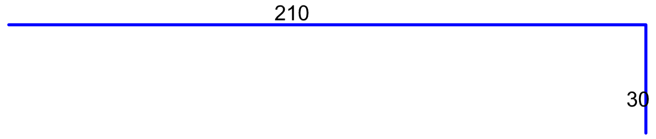
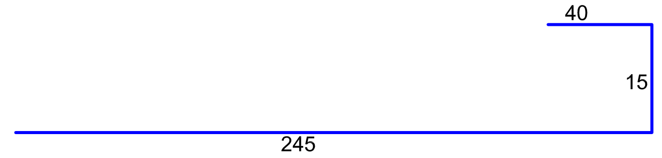
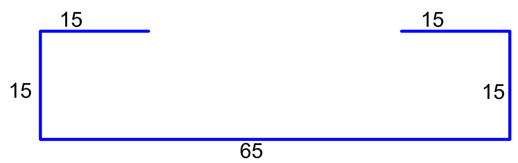
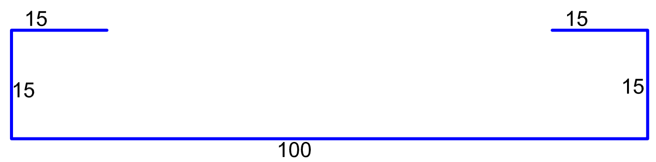
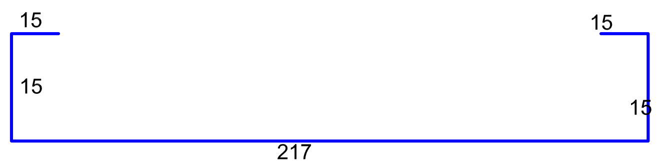
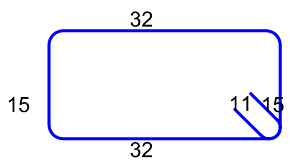
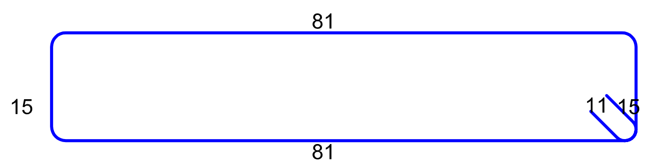
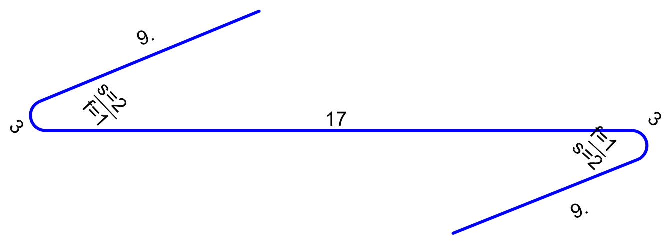


SPECIFICATION TABLE OF REINFORCEMENT

Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
Wall M-1 (1 copë)					
1		12	2.40	44	105.60
2		12	3.00	44	132.00
3		10	3.75	50	187.50
4		8	0.41	50	20.50
Wall M-2 (1 copë)					
1		12	2.40	44	105.60
2		12	3.00	44	132.00
3		10	3.75	50	187.50
4		8	0.41	50	20.50

SPECIFICATION TABLE OF REINFORCEMENT

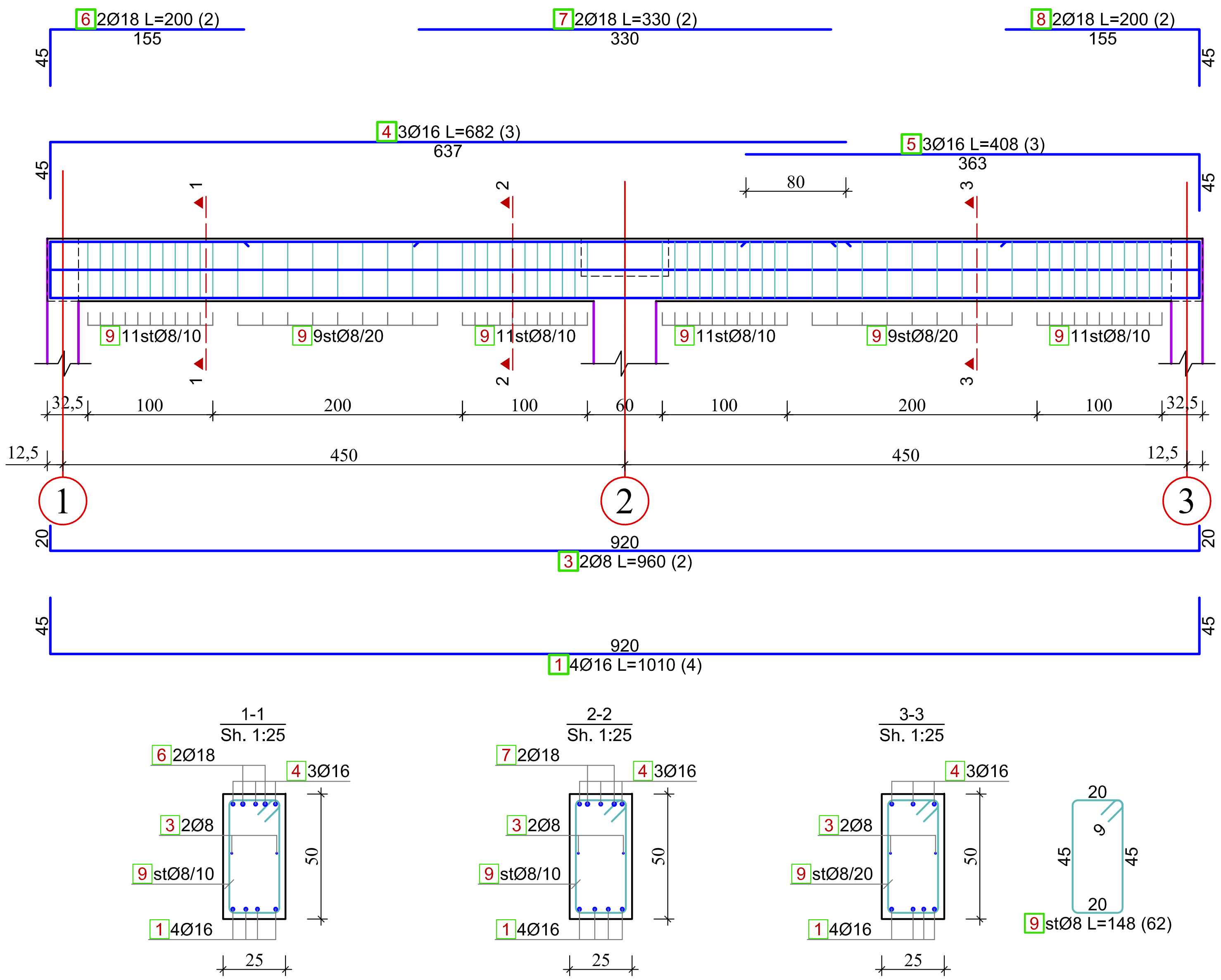
Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
Wall M-4 (1 copë)					
1		12	2.40	30	72.00
2		12	3.00	30	90.00
3		10	2.87	25	71.75
4		10	2.87	25	71.75
6		8	0.45	36	16.20

SPECIFICATION TABLE OF REINFORCEMENT					
Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
Wall M-3 (1 copë)					
1	 210, 30	12	2.40	12	28.80
2	 40, 15, 245	12	3.00	12	36.00
3	 15, 15, 15, 15, 65	10	1.25	32	40.00
4	 15, 15, 15, 15, 100	10	1.60	20	32.00
5	 15, 15, 15, 15, 217	10	2.77	20	55.40
6	 32, 15, 11, 15, 32	10	1.16	15	17.40
7	 81, 15, 11, 15, 81	10	2.14	15	32.10
8	 9., 3, 17, 3, 9.	8	0.41	18	7.38

Summary Table			
Ø [mm]	Total length [m]	Unit weight [kg/m']	Weight [kg]
Concrete C25/30, Reinforcing Steel S-500s			
8	64.58	0.40	25.51
10	695.40	0.62	429.06
12	702.00	0.89	623.38
Total			1077.95

Reinforcement of beam "T-1" , quota +3,30

Sc 1 : 50

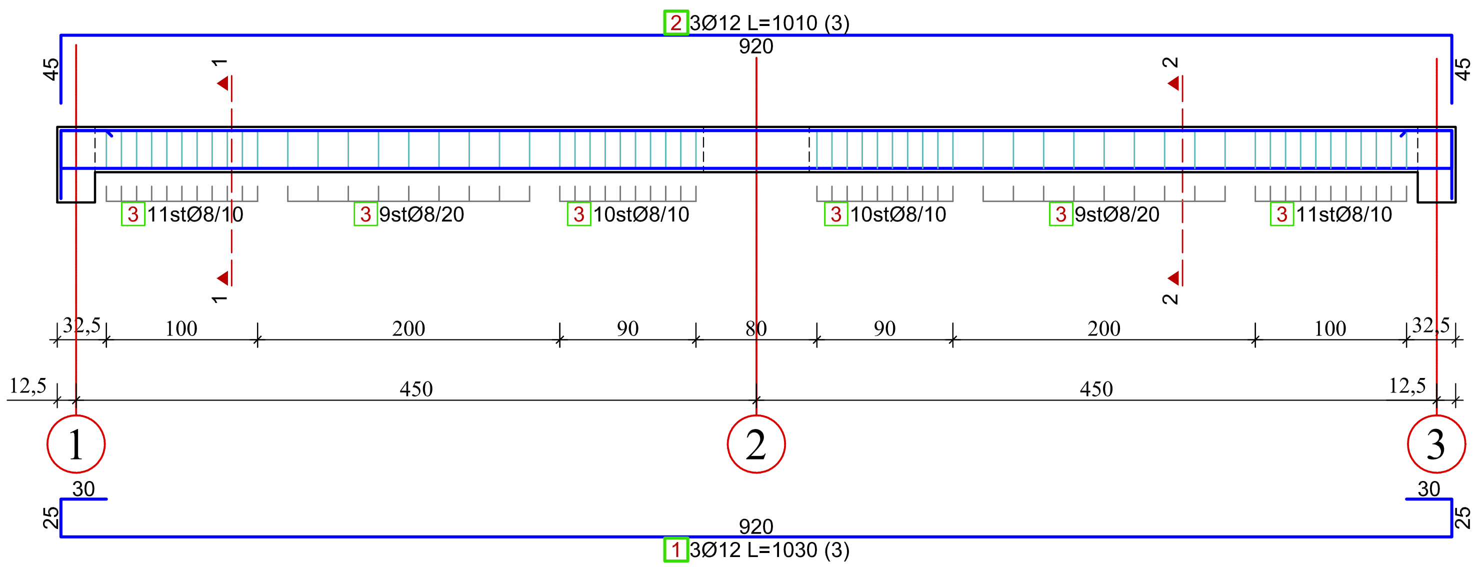


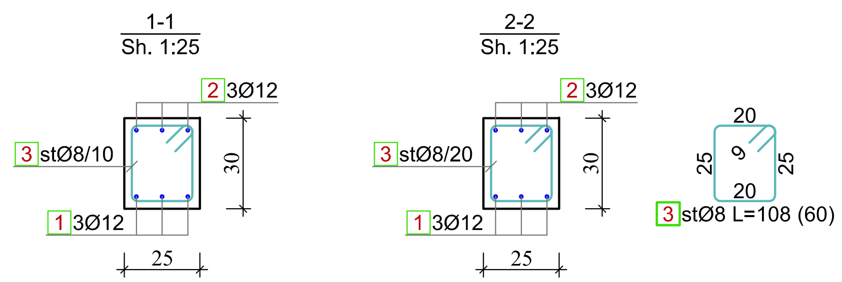
Tipi	Forma dhe gjatësitë [cm]	Ø	Gjatesia [m]	n [copë]	Gjatesia Totale [m]
Reinforcement of beam "T-1" (2 pcs)					
1	920; 45; 45	16	10.10	8	80.80
3	20; 920; 20	8	9.60	4	38.40
4	637; 45	16	6.82	6	40.92
5	45; 363	16	4.08	6	24.48
6	45; 155	18	2.00	4	8.00
7	330	18	3.30	4	13.20
8	155; 45	18	2.00	4	8.00
9	45; 20; 20; 45; 6	8	1.48	124	183.52

Tabela e Specifikimit te Armatures

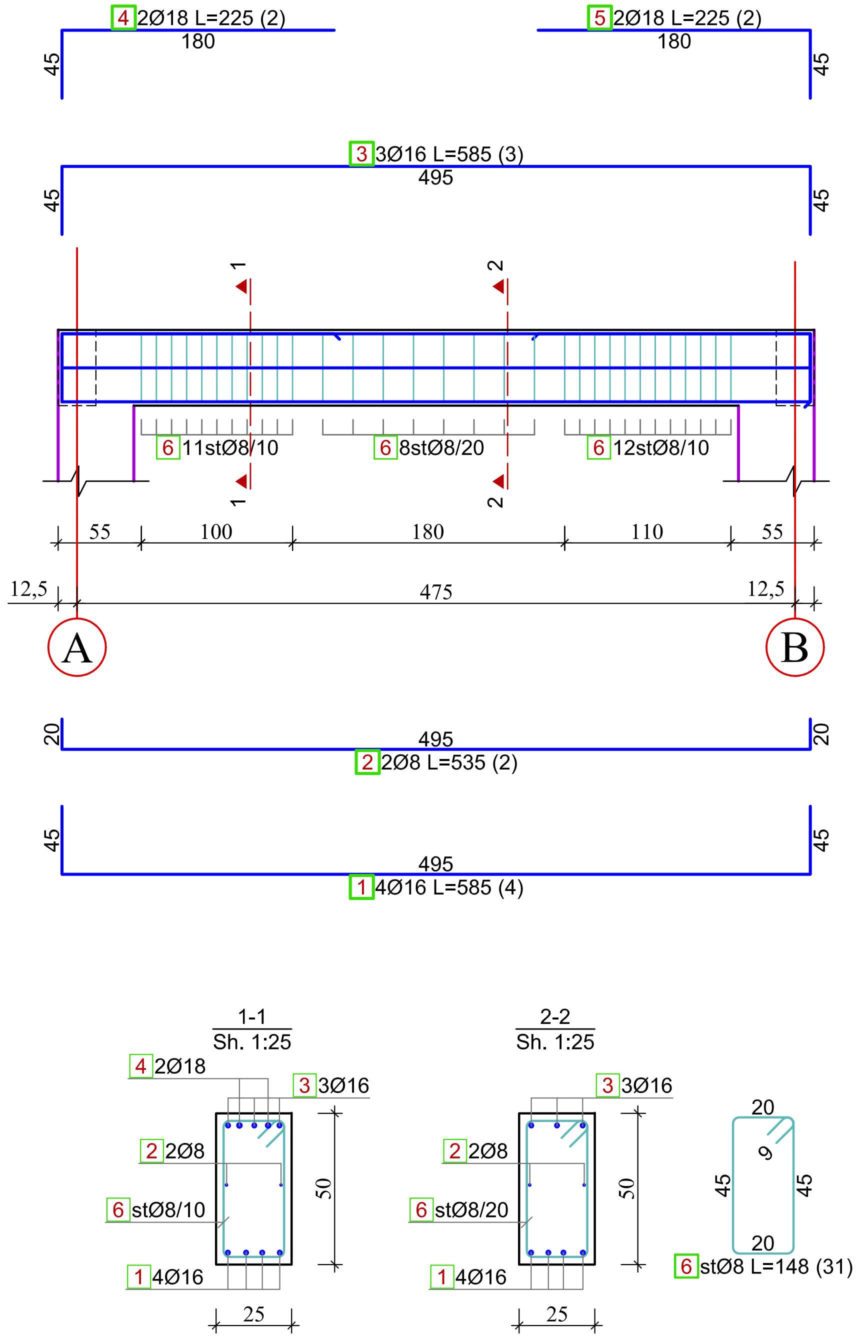
Reinforcement of beam "Br-25x30" , quota +3,30

Sc 1 : 50

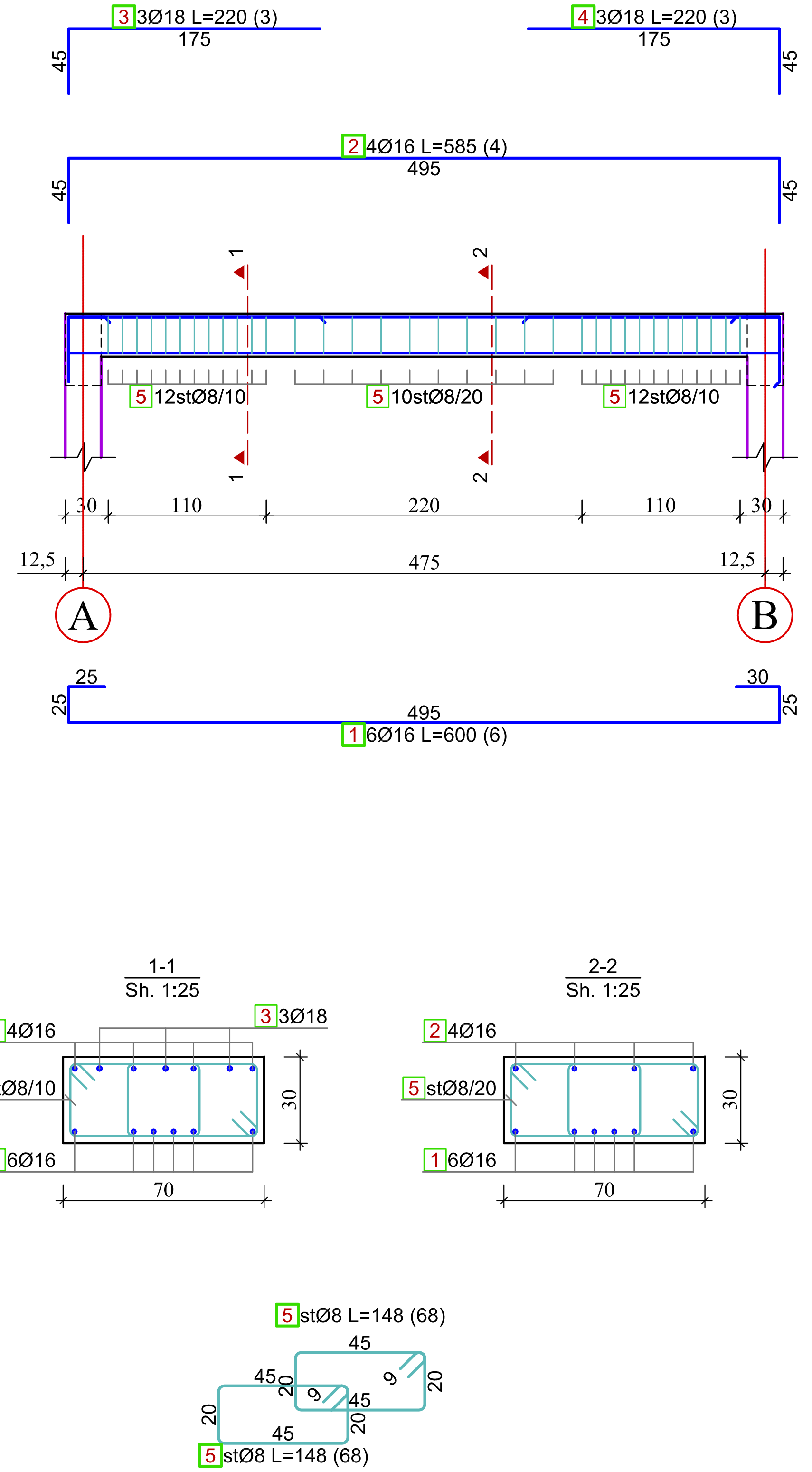




Reinforcement of beam "T-2" , quota +3,30
Sc 1 : 50



Reinforcement of beam "T-3" , quota +3,30
Sc 1 : 50



SPECIFICATION TABLE OF REINFORCEMENT

Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
Reinforcement of beam "T-2" (2 pcs)					
1	495, 45, 45	16	5.85	8	46.80
2	20, 20, 495	8	5.35	4	21.40
3	495, 45, 45	16	5.85	6	35.10
4	45, 180	18	2.25	4	9.00
5	180, 45	18	2.25	4	9.00
6	45, 20, 20, 45, 10	8	1.48	62	91.76
Reinforcement of beam "T-3" (1 pcs)					
1	495, 25, 25, 25, 30	16	6.00	6	36.00
2	495, 45, 45	16	5.85	4	23.40
3	45, 175	18	2.20	3	6.60
4	175, 45	18	2.20	3	6.60
5	45, 10, 20, 20, 45	8	1.48	68	100.64

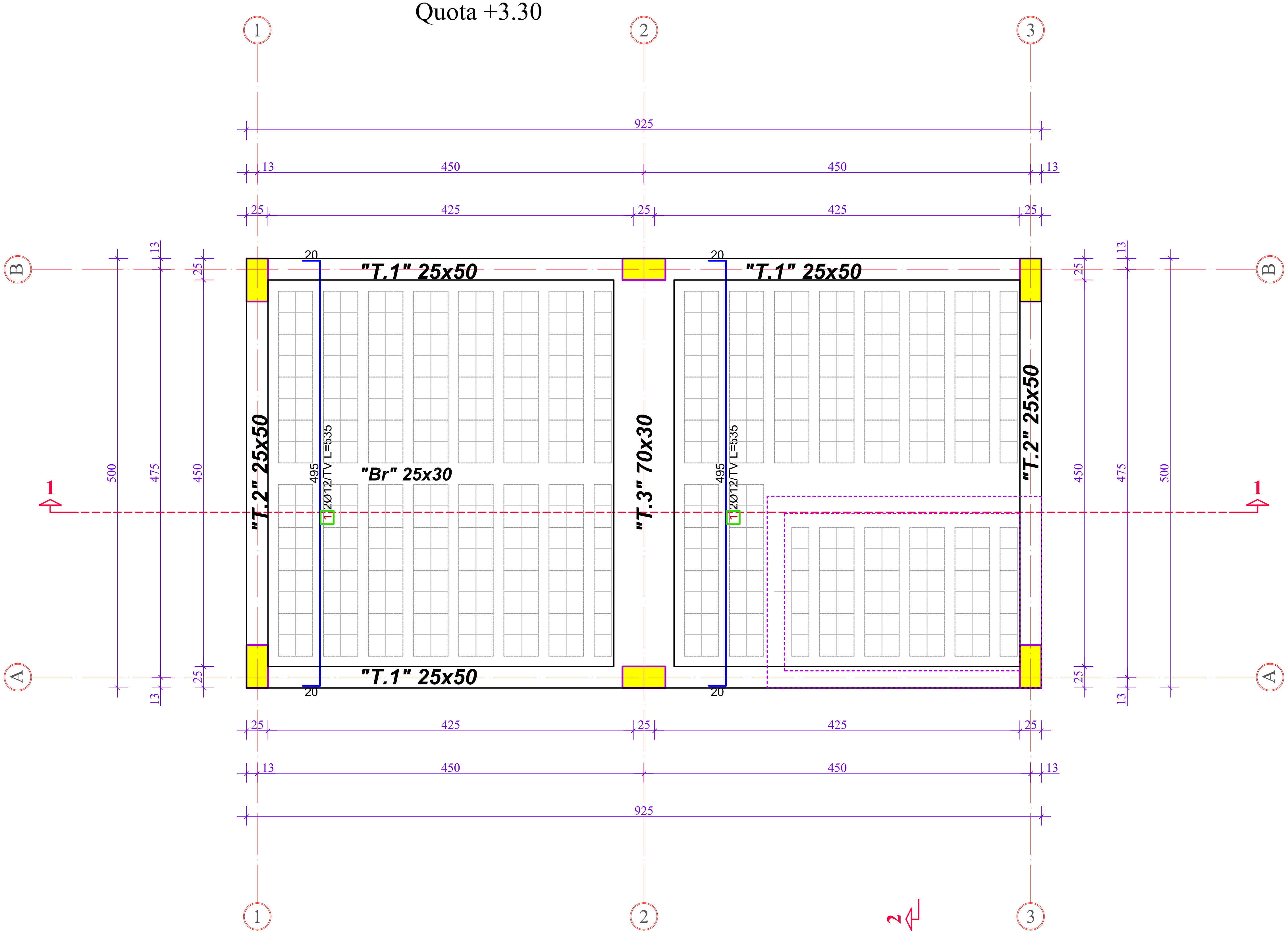
SPECIFICATION TABLE OF REINFORCEMENT

Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
Reinforcement of beam "Br.25x30" (1 pcs)					
1	920, 25, 25, 30, 30	12	10.30	3	30.90
2	920, 45, 45	12	10.10	3	30.30
3	25, 20, 20, 10, 25	8	1.08	60	64.80

Summary Table

Ø [mm]	Total length [m]	Unit weight [kg/m']	Weight [kg]
Concrete C25/30, Reinforcing Steel S-500s			
8	500.52	0.40	197.71
12	61.20	0.89	54.35
16	287.50	1.58	454.25
18	60.40	2.00	120.80
Gjithsej			827.10

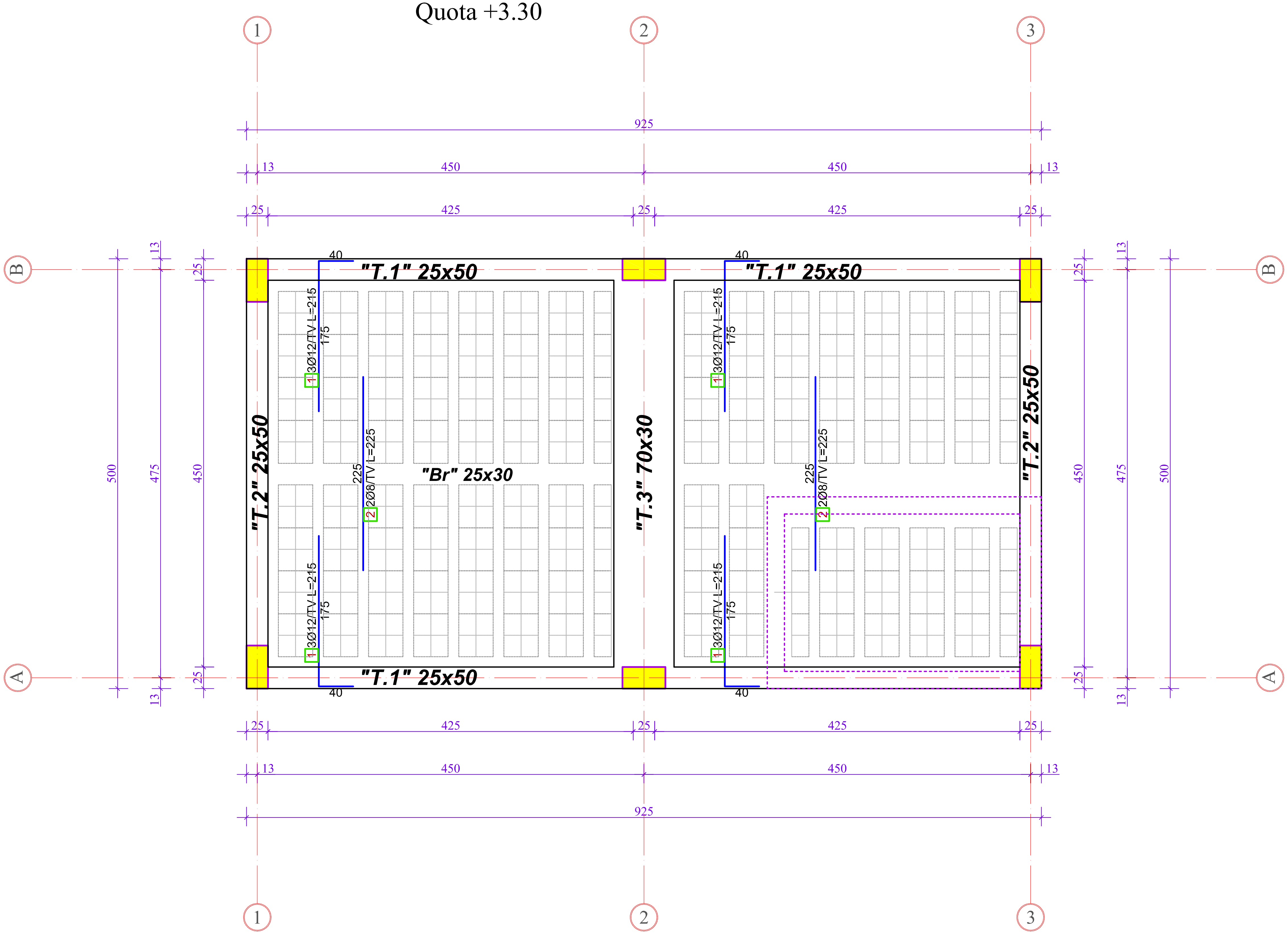
REINFORCEMENT OF SLAB
(Bottom reinforcement)
Quota +3.30



TECHNICAL NOTES

1. Floors will be constructed with ribbed slabs, filled with bricks. Thickness of the slab will be 25+5=30cm.
2. Top and bottom reinforcement of ribs and cantilevers will be taken at the respective sheets (see top and bottom reinforcement).
3. In construction of beams and slabs will be used C25/30 Concrete , S-500S reinforcing steel.
4. Concrete cover of beams will be 2.5cm from the side of the stirrup, and for slabs and stairs will be 1.5cm.
5. Grate Ø8 in top reinforcement, will be taken 4kg steel / m² slab.
6. The position of the ribs shown in the project must be respected correctly. Part of slab boundary with beams, always start with ribs.

REINFORCEMENT OF SLAB
(Top reinforcement)
Quota +3.30



TECHNICAL NOTES

1. Floors will be constructed with ribbed slabs, filled with bricks. Thickness of the slab will be 25+5=30cm.
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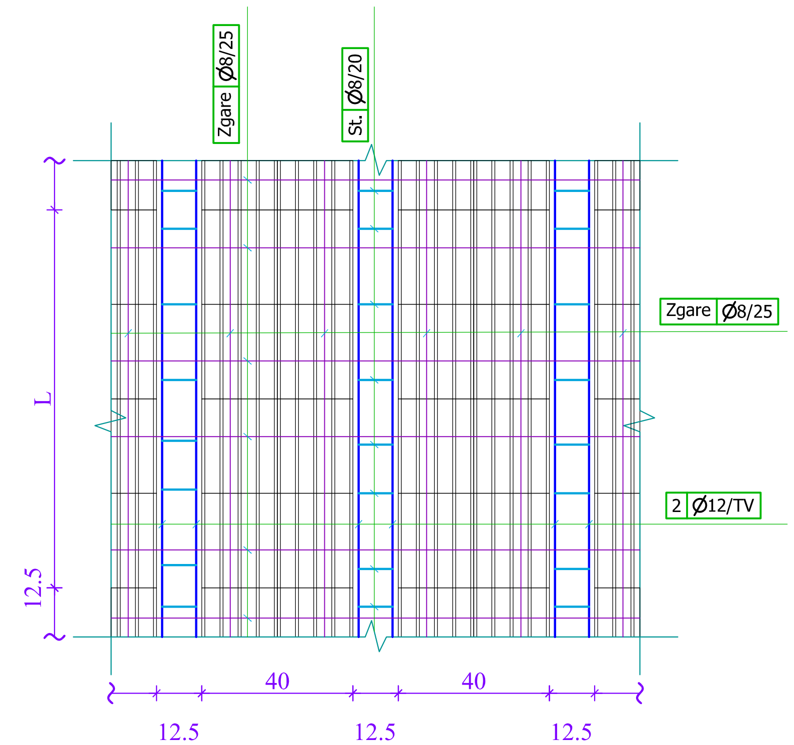
3. In construction of beams and slabs will be used C25/30 Concrete , S-500S reinforcing steel.
4. Concrete cover of beams will be 2.5cm from the side of the stirrup, and for slabs and stairs will be 1.5cm.
5. Grate Ø8 in top reinforcement, will be taken 4kg steel / m² slab.
6. The position of the ribs shown in the project must be respected correctly. Part of slab boundary with beams, always start with ribs.

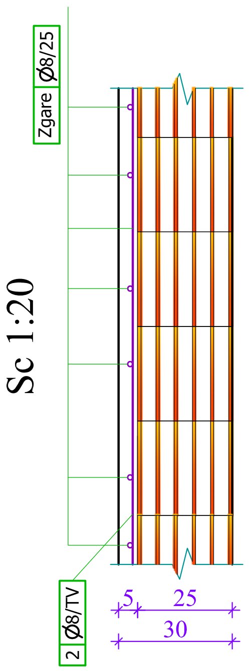
SPECIFICATION TABLE OF REINFORCEMENT					
Type	Shapes and lengths [cm]	Ø	Length [m]	n [pcs]	Total length [m]
Armimi i zgares se poshtme, kuota +3.30 (1 copë)					
1	20 495 20	12	5.35	32	171.20
Armimi i zgares e siperme, kuota +3.30 (1 copë)					
1	175 40	12	2.15	96	206.40
2	225	8	2.25	32	72.00

Summary Table			
Ø [mm]	Total length [m]	Unit weight [kg/m']	Weight [kg]
Concrete C25/30, Reinforcing Steel S-500s			
8	72.00	0.40	28.44
12	377.60	0.89	335.31
Total			363.75

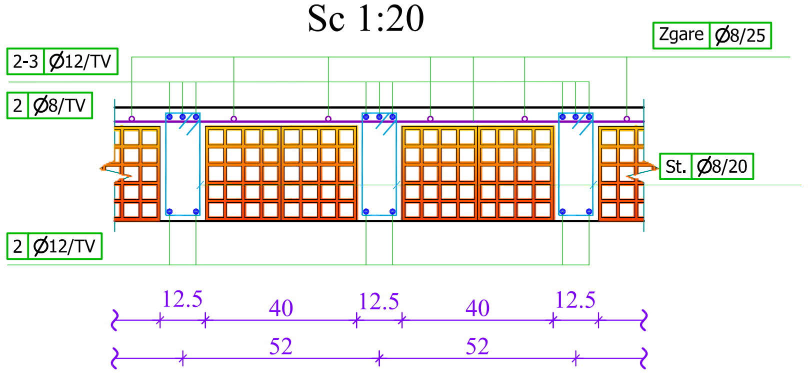
DETAILS OF SLABS

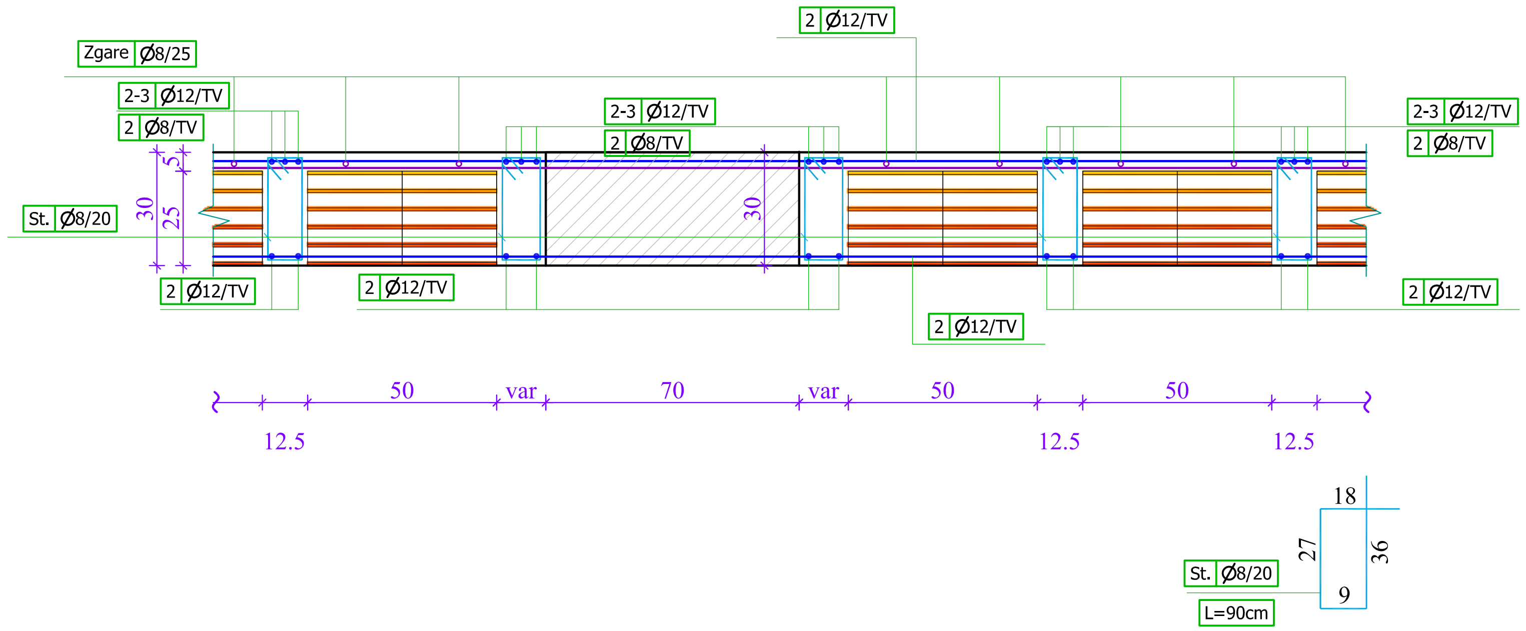


Section 2-2
Sc 1:20



Section 1-1
Sc 1:20





TECHNICAL NOTES

1. Floors will be constructed with ribbed slabs, filled with bricks. Thickness of the slab will be 25+5=30cm.
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