



Engineering & Architecture
Technical Control Bureau

ADRAR HOTEL

BY T'ORE MAURITANIA

**FULL ARCHITECTURAL DESIGN PACKAGE
AND TECHNICAL SPECIFICATIONS**

October 2025
Nouakchott



**Engineering & Architecture
Technical Control Bureau**

3D RENDERINGS & PERSPECTIVES



3D RENDERINGS & PERSPECTIVES

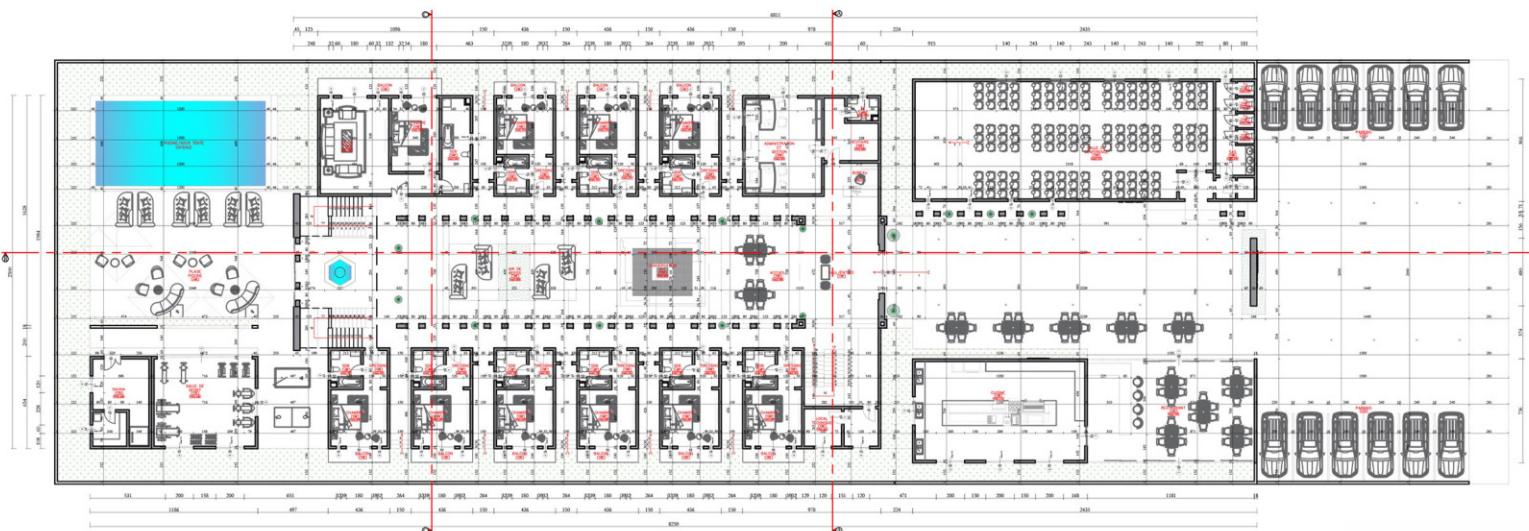


3D RENDERINGS & PERSPECTIVES

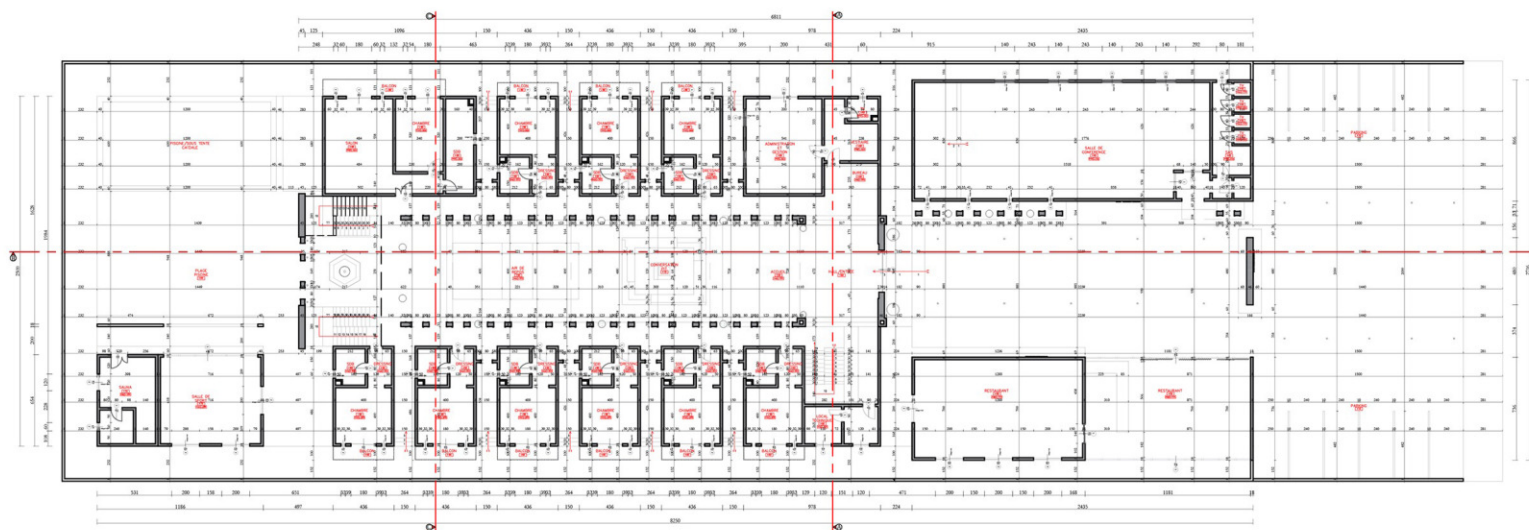


Engineering & Architecture
Technical Control Bureau

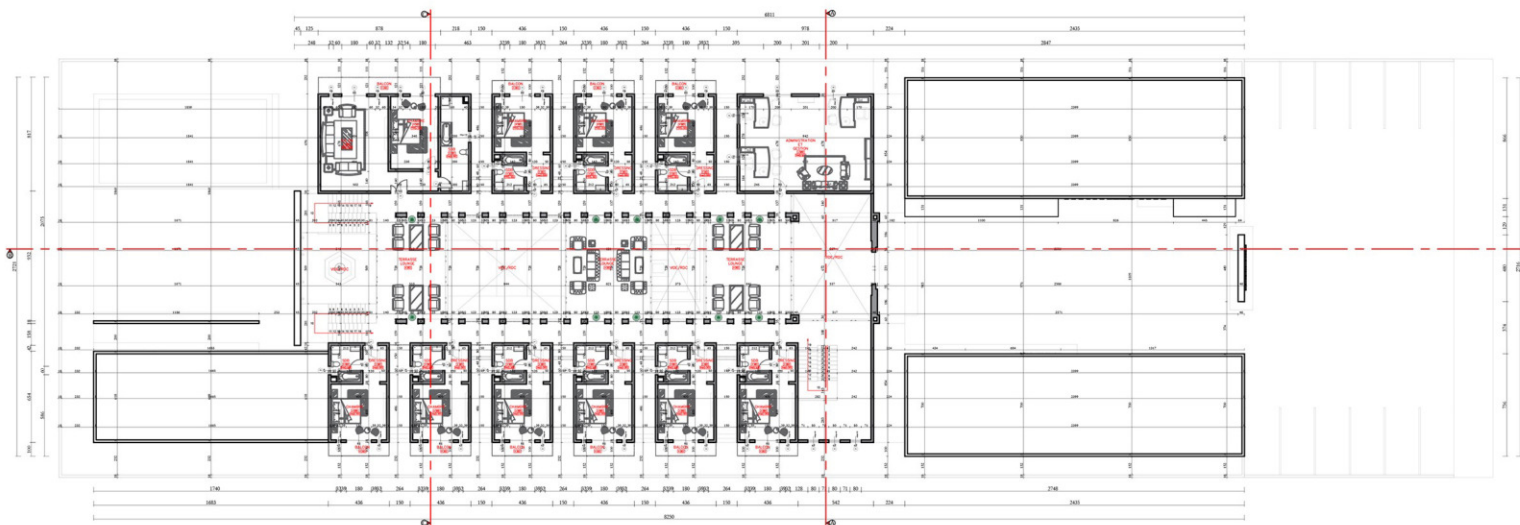
ARCHITECTURAL PLANS

[illegible]

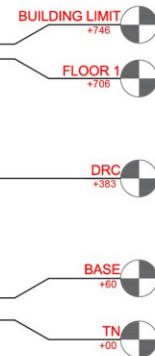
DATE	N° PLAN
OCT 2025	AR-01
ECHÉLLE :	
1/100	

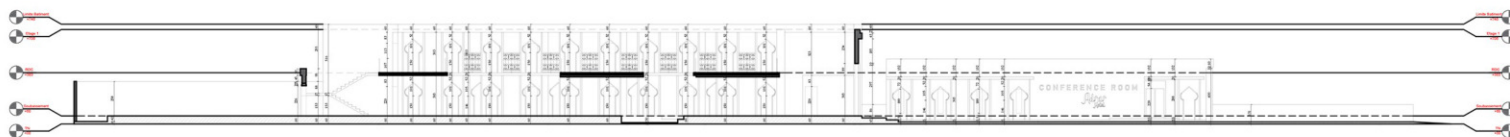
[illegible]

DATE	N° PLAN
OCT 2005	AR-01
ECHELLE :	
1/100	

[illegible]

DATE	N° PLAN
OCT 2010	AR-01
ECHELLE :	
1/100	

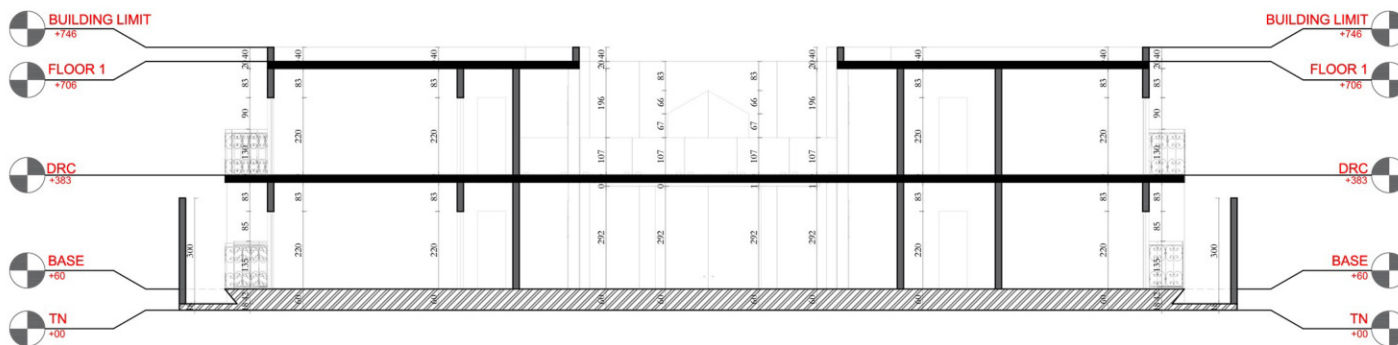


[illegible]

DATE
OCT 2021
ECHELL
1/100

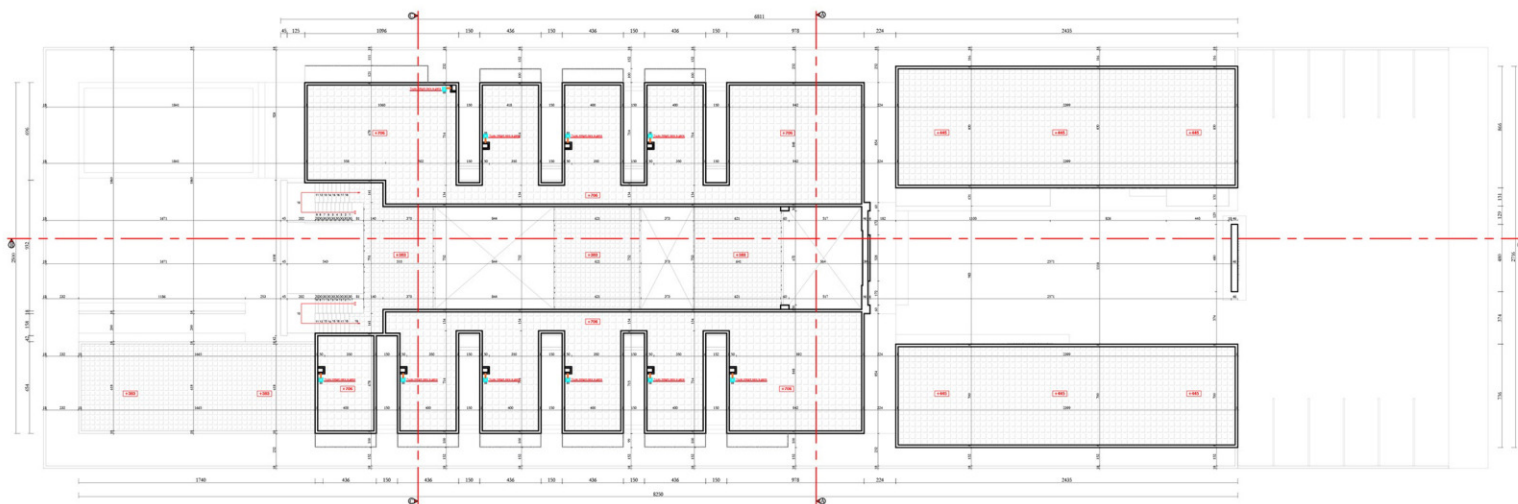
NEW PLAN

AR-01

[illegible]

DATE	N° PLAN
OCT 2005	AR-01
ECHELLE :	
1/100	

[illegible]

[illegible]

DATE	N° PLAN
OCT 2020	AR-01
ECHELLE :	
1/20	



Engineering & Architecture
Technical Control Bureau

STRUCTURAL PLANS

CONSTRUCTION OF A TWO-STORY HOTEL (R+1)

LIST OF DRAWINGS

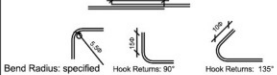
No.	Drawing Name	Format	Scale
--	Cover Page	A4	--
--	List of Drawings	A4	--
ST-00	Superimposition	A3	1:100
ST-01	Foundation Formwork	A3	1:50
ST-02	Ground Beam Formwork	A3	1:50
ST-03	Ground Floor Slab Formwork	A3	1:50
ST-04	First Floor Slab Formwork (R+1)	A3	1:50
ST-05	Foundation Details	A4	As Indicated
ST-06	Ground Beam Details	A4	As Indicated
ST-07	Column Details	A4	As Indicated
ST-08	Beam Details	A4	As Indicated
ST-09	Miscellaneous Details	A4	As Indicated

CALCULATION ASSUMPTIONS

REGULATIONS:
DESIGN CODE: BAEI 91 MODIFIED 99
DEAD LOADS: NF P 06-004
LIVE LOADS: NF P 06-001
GEOTECHNICAL DESIGN: DTU 13.12
MATERIALS:
CONCRETE FC28: 20 MPA
STEEL: FE400
SOIL:
ALLOWABLE BEARING PRESSURE:
1.5 BARS
MINIMUM ANCHORAGE DEPTH: 80 CM
LIVE LOADS:
RESIDENTIAL AREAS: 1.5 KN/M²
INACCESSIBLE TERRACE: 1 KN/M²
CRACKING:
DETRIMENTAL FOR THE
INFRASTRUCTURE
NOT DETRIMENTAL FOR THE
SUPERSTRUCTURE

CONSTRUCTION PROVISIONS

LAP LENGTH: 50 × BAR DIAMETER



Bend Radius: specified Hook Returns: 90° Hook Returns: 135°

NO.	DESCRIPTION	DATE

CONSTRUCTION OF A TWO-STORY
HOTEL (R+1) IN NOUAKCHOTT

SUPERIMPOSITION

Project Number: LAR-ZA-ST-10-25
Date: 21/10/2025
Discipline: Structure
Revision: A

ST-00

Scale: 1:50

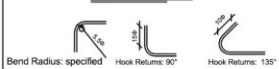


CALCULATION ASSUMPTIONS

REGULATIONS:
DESIGN CODE: BAEI 91 MODIFIED 99
DEAD LOADS: NF P 06-004
LIVE LOADS: NF P 06-001
GEOTECHNICAL DESIGN: DTU 13.12
MATERIALS:
CONCRETE FC28: 20 MPA
STEEL: FE400
SOIL:
ALLOWABLE BEARING PRESSURE:
1.5 BARS
MINIMUM ANCHORAGE DEPTH: 80 CM
LIVE LOADS:
RESIDENTIAL AREAS: 1.5 KN/M²
INACCESSIBLE TERRACE: 1 KN/M²
CRACKING:
DETRIMENTAL FOR THE
INFRASTRUCTURE
NOT DETRIMENTAL FOR THE
SUPERSTRUCTURE

CONSTRUCTION PROVISIONS

LAP LENGTH: $50 \times \text{BAR DIAMETER}$



Bend Radius: specified
Hook Returns: 90°
Hook Returns: 135°

NO.	DESCRIPTION	DATE

CONSTRUCTION OF A TWO-STORY
HOTEL (R+1) IN NOUAKCHOTT

STRUCTURAL OVERLAY PLAN

Project Number: LAR-ZA-ST-10-25

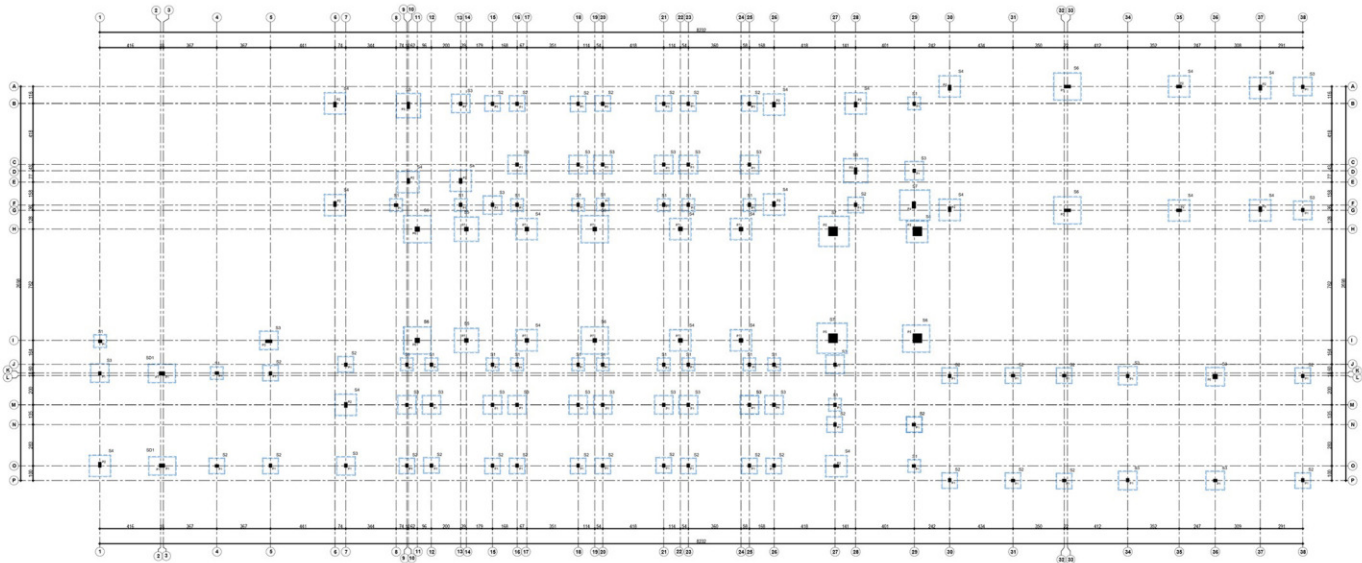
Date: 21/10/2025

Discipline: Structure

Revision: A

ST-01

Scale: 1:50

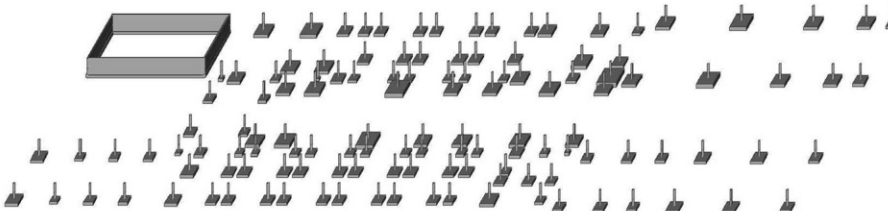


Foundation Schedule

Name	Section	Quantity
S1	(80x80x20)	23
S2	(100x100x25)	32
S3	(120x120x30)	27
S4	(140x140x35)	21
S5	(160x160x40)	4
S6	(180x180x45)	6
S7	(200x200x50)	3
SD1	(120x180x45)	2
Total: 118		118

Column Schedule

Name	Section	Quantity
P1	(15x20)	83
P2	(15x30)	15
P3	(15x40)	5
P4	(40x20)	1
P5	(60x60)	4
P6	(30x30)	2
P7	(25x25)	10
Total: 120		120



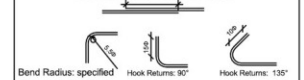
CALCULATION ASSUMPTIONS

REGULATIONS:
DESIGN CODE: BAE 91 MODIFIED 99
DEAD LOADS: NF P 06-004
LIVE LOADS: NF P 06-001
GEOTECHNICAL DESIGN: DTU 13.12

MATERIALS:
CONCRETE FC28: 20 MPA
STEEL: FE400
SOIL:
ALLOWABLE BEARING PRESSURE:
1.5 BARS
MINIMUM ANCHORAGE DEPTH: 80 CM
LIVE LOADS:
RESIDENTIAL AREAS: 1.5 KN/M²
INACCESSIBLE TERRACE: 1 KN/M²
CRACKING:
DETRIMENTAL FOR THE
INFRASTRUCTURE
NOT DETRIMENTAL FOR THE
SUPERSTRUCTURE

CONSTRUCTION PROVISIONS

LAP LENGTH: 50 × BAR DIAMETER



NO.	DESCRIPTION	DATE

CONSTRUCTION OF A TWO-STORY HOTEL (R+1) IN NOUAKCHOTT

GROUND BEAM FORMWORK

Project Number: LAR-ZA-ST-10-25

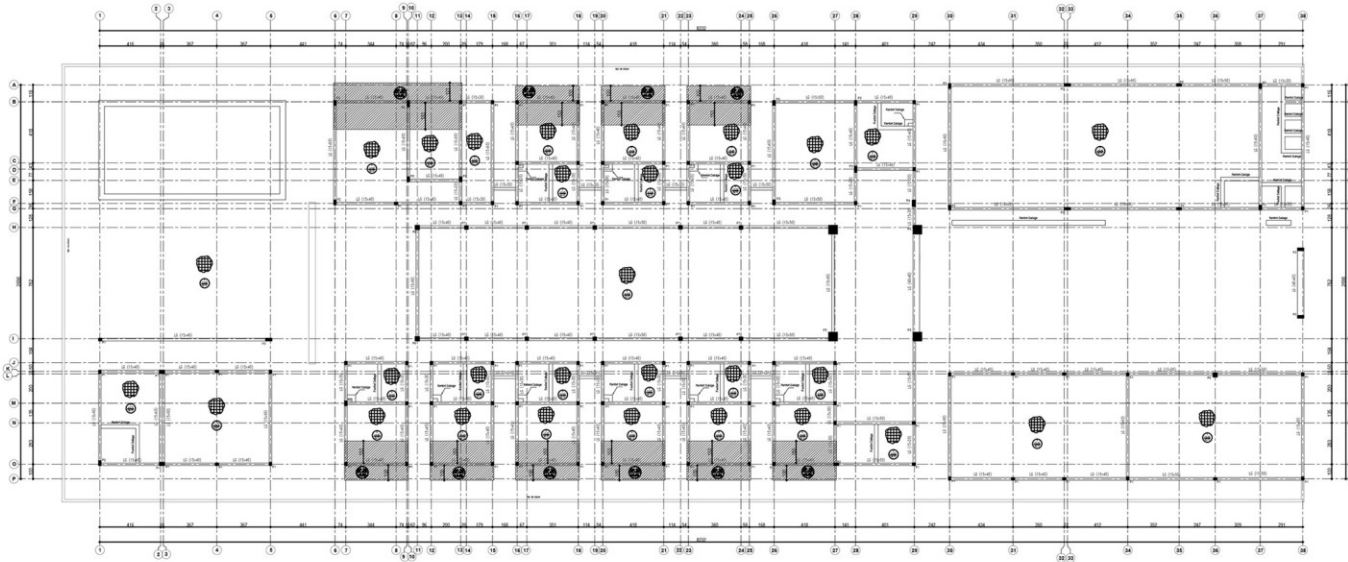
Date: 21/10/2025

Discipline: Structure

Revision: A

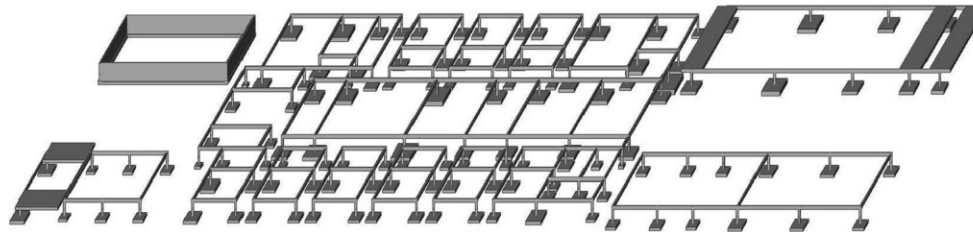
ST-02

Scale: 1:50



Nom	Section	Nombre
Lo1	(15x30)	33
Lo2	(15x40)	70
Lo3	(15x50)	9
Lo4	(15x60)	16
Lo5	(40x40)	2
Total: 130		130

Nom	Section	Nombre
P1	(15x20)	83
P2	(15x30)	15
P3	(15x40)	5
P4	(40x20)	1
P5	(60x60)	4
P6	(30x30)	2
P7	(25x25)	10
Total: 120		120



CALCULATION ASSUMPTIONS

REGULATIONS:
DESIGN CODE: BAEI 91 MODIFIED 99
DEAD LOADS: NF P 06-004
LIVE LOADS: NF P 06-001
GEOTECHNICAL DESIGN: DTU 13.12

MATERIALS:
CONCRETE FC28: 20 MPA
STEEL: FE400

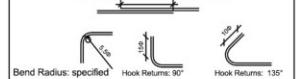
SOIL:
ALLOWABLE BEARING PRESSURE:
1.5 BARS
MINIMUM ANCHORAGE DEPTH: 80 CM

LIVE LOADS:
RESIDENTIAL AREAS: 1.5 KN/M²
INACCESSIBLE TERRACE: 1 KN/M²

CRACKING:
DETRIMENTAL FOR THE
INFRASTRUCTURE
NOT DETRIMENTAL FOR THE
SUPERSTRUCTURE

CONSTRUCTION PROVISIONS

LAP LENGTH: 50 × BAR DIAMETER



NO.	DESCRIPTION	DATE

CONSTRUCTION OF A TWO-STORY HOTEL (R+1) IN NOUAKCHOTT

GROUND FLOOR SLAB FORMWORK

Project Number: LAR-ZA-ST-10-25

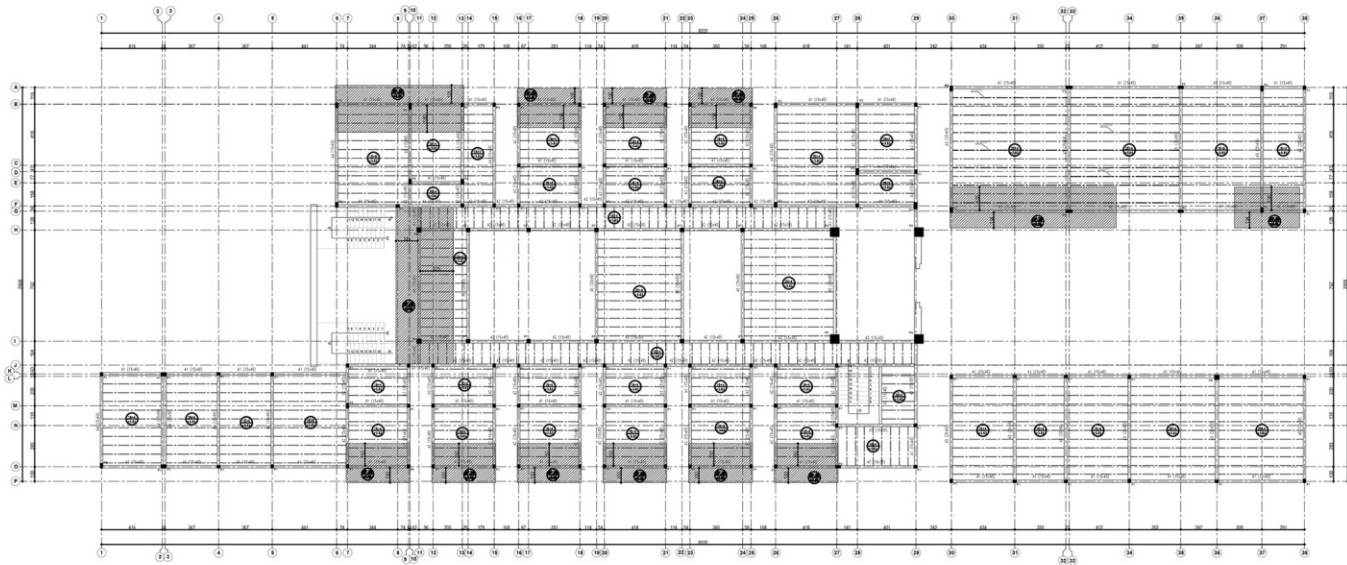
Date: 21/10/2025

Discipline: Structure

Revision: A

ST-03

Scale: 1:50



Beam Schedule

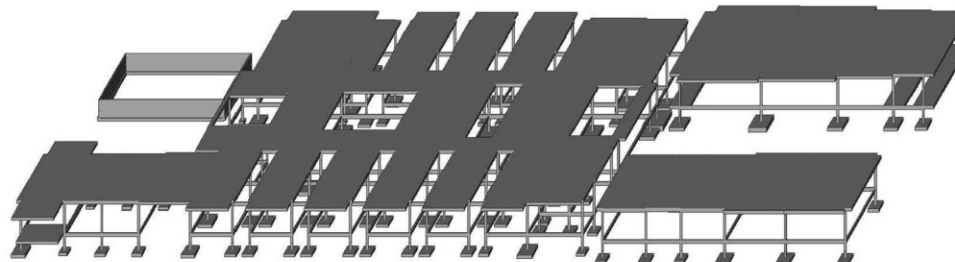
Name	Section	Quantity
A1	(15x40)	51
A2	(15x40)	65
A3	(15x50)	6
A4	(15x60)	5
A5	(20x60)	17
Total: 39		144

Column Schedule

Name	Section	Quantity
P1	(15x20)	83
P2	(15x30)	15
P3	(15x40)	5
P4	(40x20)	1
P5	(60x60)	4
P6	(30x30)	2
P7	(25x25)	10
Total: 120		120

Rib Schedule

Name	Floor Slab	Lower Floor	Upper	Screed
N1	CC16+4	3HA12	1HA10	1HA12
N2	CC16+6	3HA12	1HA10	1HA12
N3	CC20+4	3HA14	1HA12	1HA14

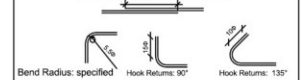


CALCULATION ASSUMPTIONS

REGULATIONS:
 DESIGN CODE: BAE 91 MODIFIED 99
 DEAD LOADS: NF P 06-004
 LIVE LOADS: NF P 06-001
 GEOTECHNICAL DESIGN: DTU 13.12
MATERIALS:
 CONCRETE FC28: 20 MPA
 STEEL: FE400
SOIL:
 ALLOWABLE BEARING PRESSURE:
 1.5 BARS
 MINIMUM ANCHORAGE DEPTH: 80 CM
LIVE LOADS:
 RESIDENTIAL AREAS: 1.5 KN/M²
 INACCESSIBLE TERRACE: 1 KN/M²
CRACKING:
 DETRIMENTAL FOR THE
 INFRASTRUCTURE
 NOT DETRIMENTAL FOR THE
 SUPERSTRUCTURE

CONSTRUCTION PROVISIONS

LAP LENGTH: 50 × BAR DIAMETER



NO.	DESCRIPTION	DATE

CONSTRUCTION OF A TWO-STORY HOTEL (R+1) IN NOUAKCHOTT

FIRST FLOOR SLAB FORMWORK

Project Number: LAR-ZA-ST-10-25

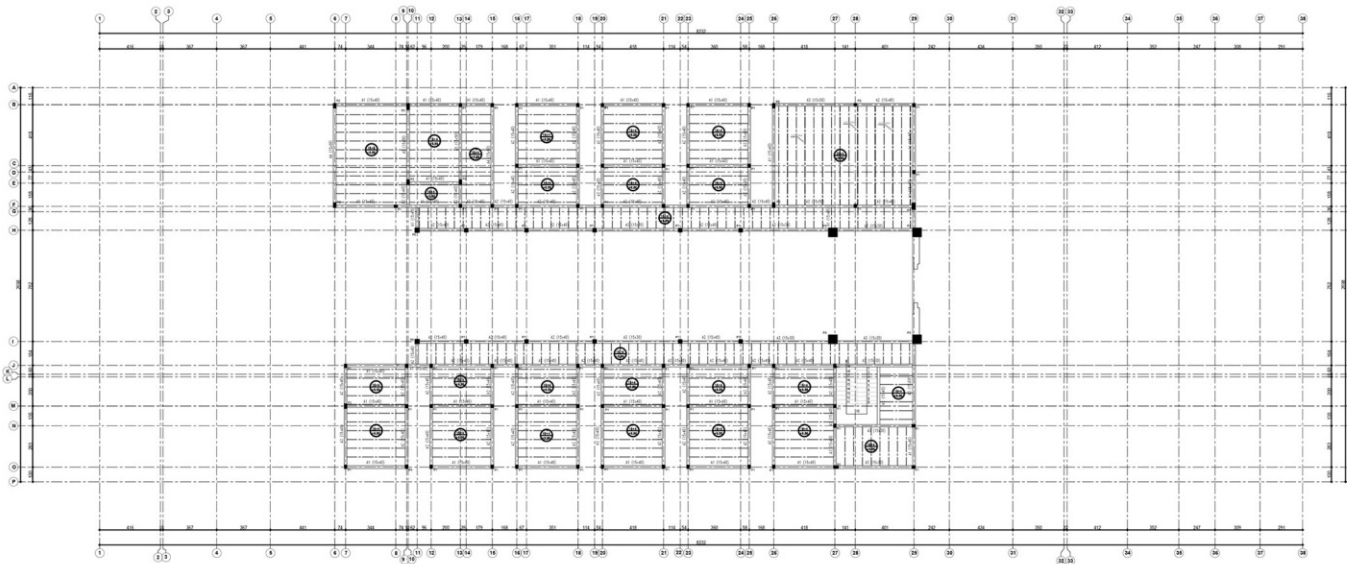
Date: 21/10/2025

Discipline: Structure

Revision: A

ST-04

Scale: 1:50



Beam Schedule

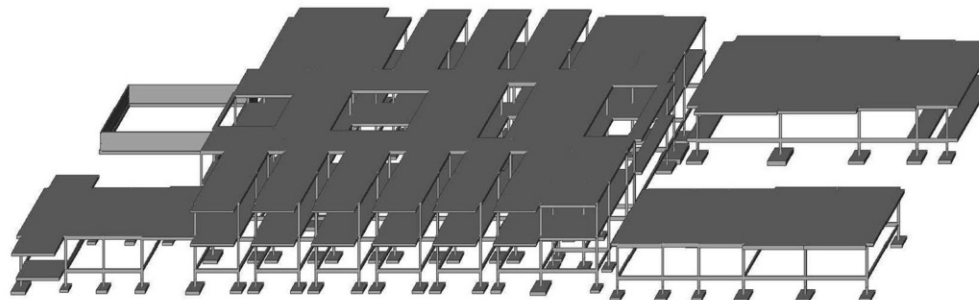
Name	Section	Quantity
A1	(15x40)	28
A2	(15x40)	63
A3	(15x50)	6
A4	(15x60)	0
A5	(20x60)	6
Total:	39	144

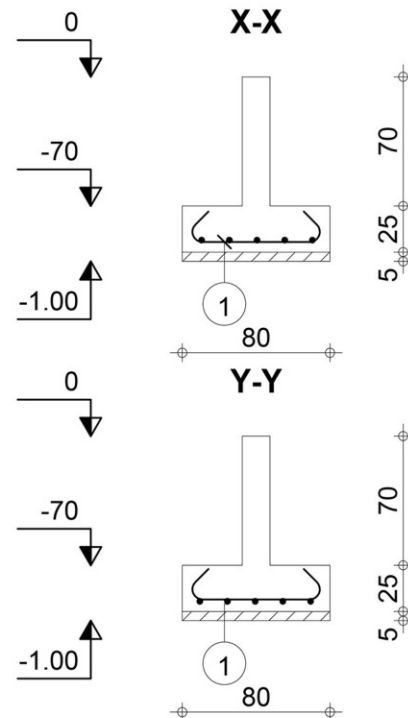
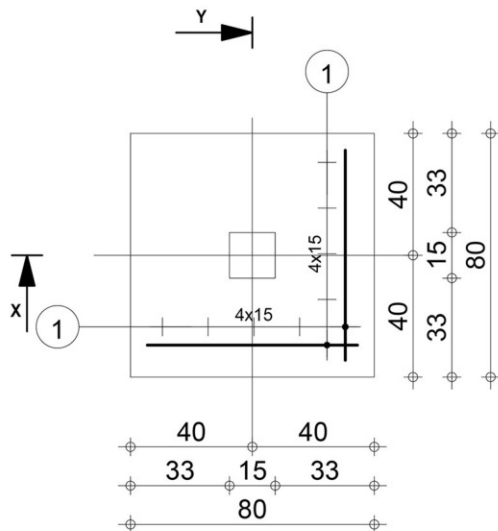
Column Schedule

Name	Section	Quantity
P1	(15x20)	61
P2	(15x30)	9
P3	(15x40)	3
P4	(40x20)	1
P5	(60x60)	4
P6	(30x30)	2
P7	(25x25)	10
Total:	90	90

Rib Schedule

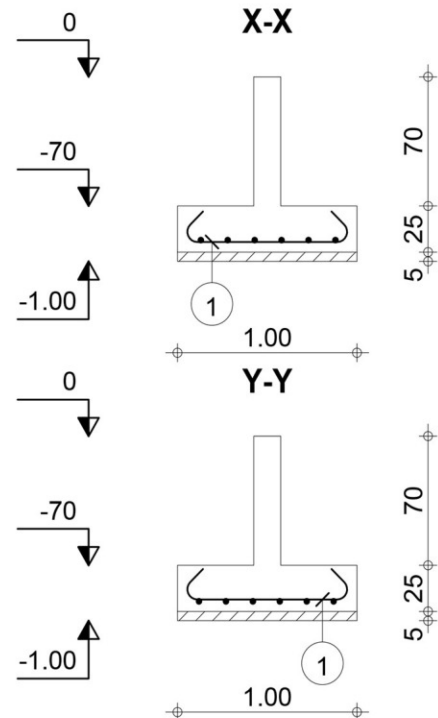
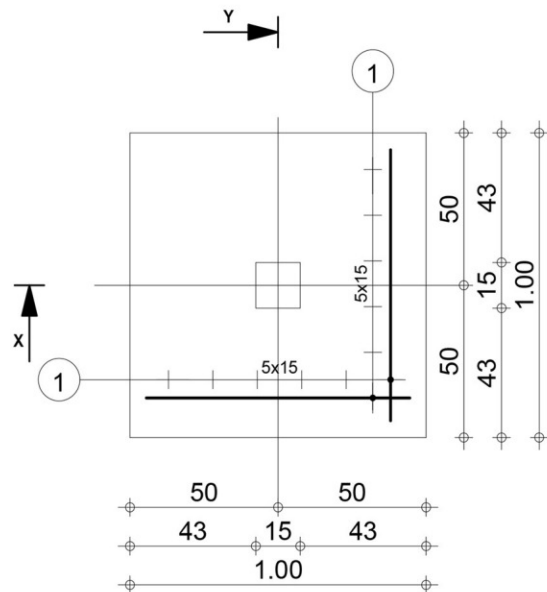
Name	Floor Slab	Lower Floor	Upper	Screed
N1	CC16+4	3HA12	1HA10	1HA12
N2	CC16+6	3HA12	1HA10	1HA12
N3	CC20+4	3HA14	1HA12	1HA14





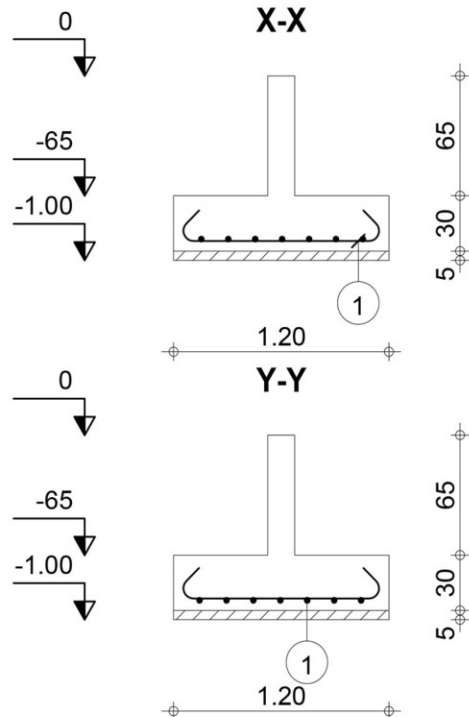
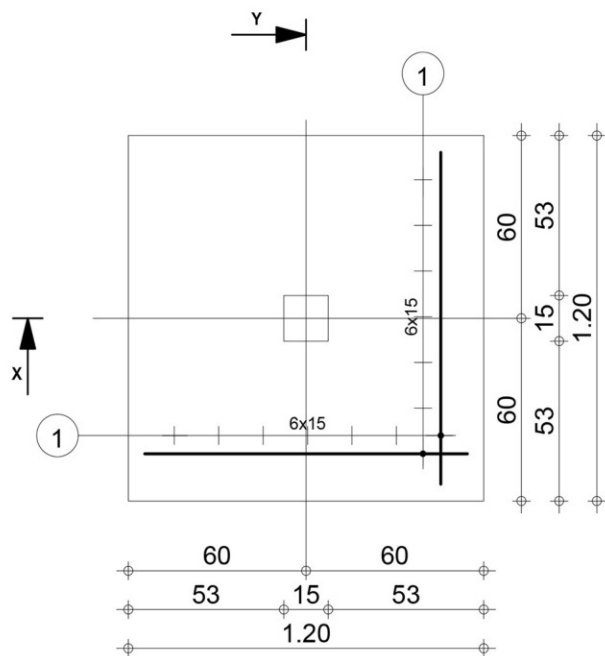
Pos.	Reinforcement	Form
1	10HA 10	l=1.04

Tel.		Fax		HA 400 Steel = 6.41 kg	
Detrimental Cracking				Concrete: BETON20 = 0.176 m3 Formwork	
Hotel Footings	S1	Number 1	surface = 1.22 m2 Cover c1 = 5 cm, c2 = 3 cm Density = 36.42 kg/m3		
			Scale for the view 1/20 Scale for the section 1/33		Page 1/6



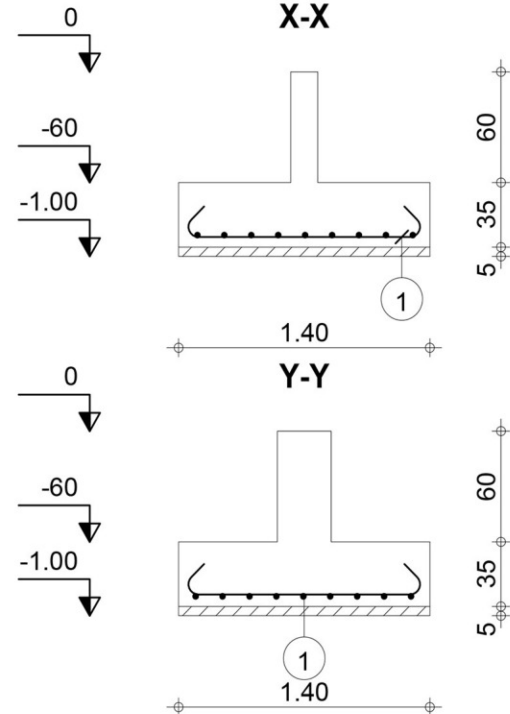
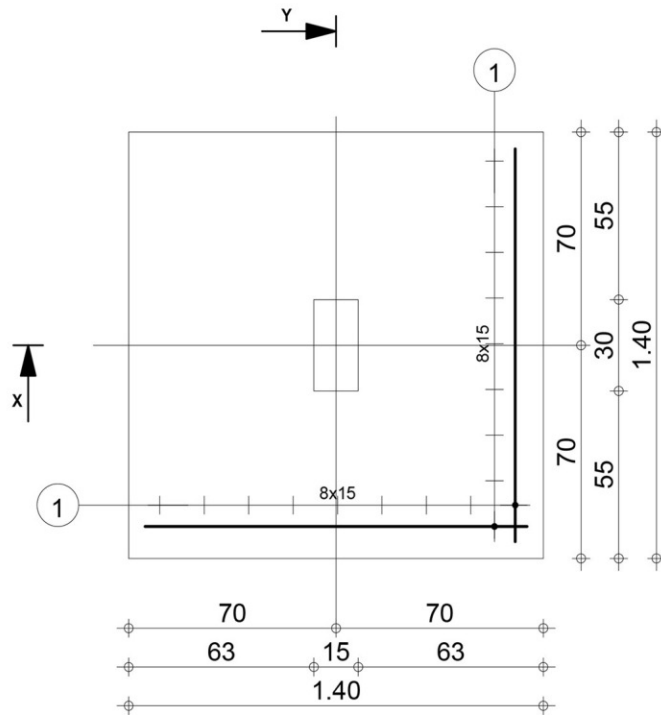
Pos.	Reinforcement	Form
1	12HA 10	l=1.24 90

Tel.		Fax		Steel HA 400 = 9.17 kg	
Detrimental cracking				Concrete: BETON20 = 0.266 m³ Formwork	
Hotel footings	S2	Number 1	surface = 1.42 m² Cover c1 = 5 cm, c2 = 3 cm		
			Density = 34.47 kg/m³		
			Scale for the view 1/20		Page 2/6
			Scale for the section 1/33		



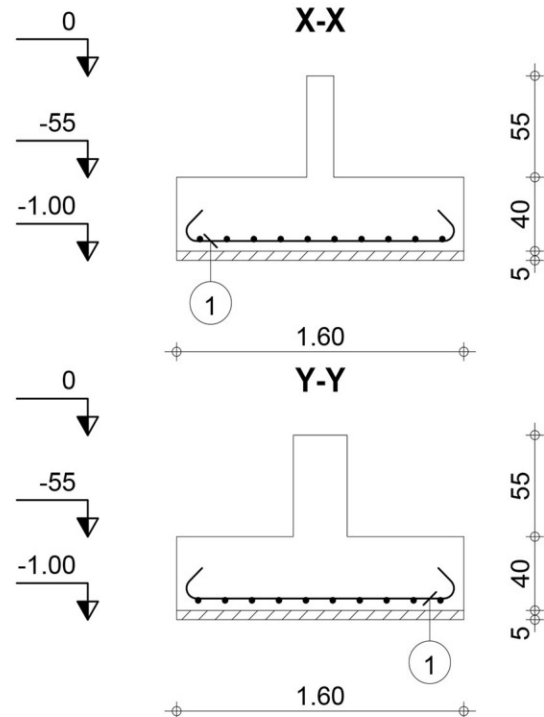
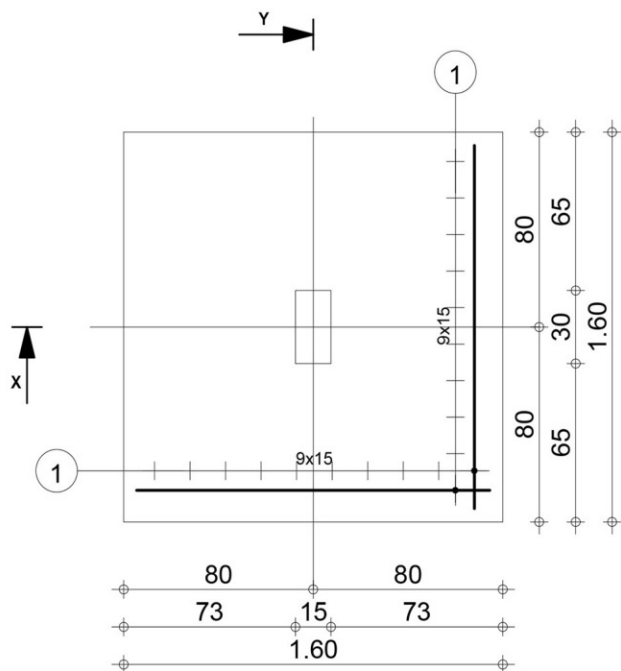
Pos.	Reinforcement	Form
1	14HA 10	l=1.44 1.10

		Tel.		Fax				Steel HA 400 = 12.4 kg	
		Detrimental cracking						Concrete: BETON20 = 0.447 m³ Formwork	
Hotel footings		S3		Number 1		surface = 1.83 m² Cover c1 = 5 cm, c2 = 3 cm			
						Density = 27.74 kg/m³			
						Scale for the view 1/20 Scale for the section 1/33		Page 3/6	



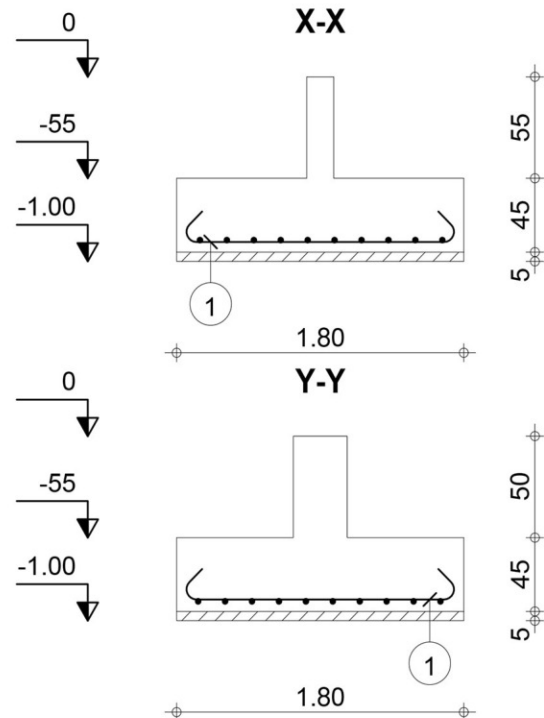
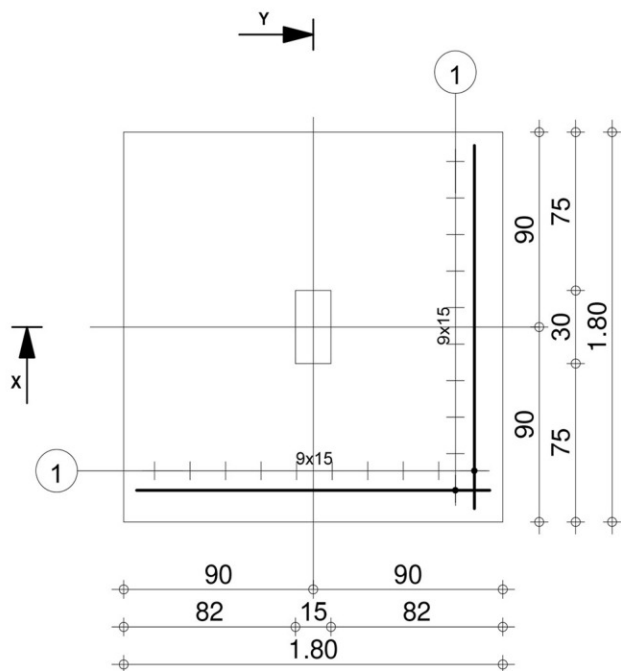
Pos.	Reinforcement	Form
1	18HA 10	l=1.64 1.30

Tel.		Fax		Steel HA 400 = 18.2 kg	
Detrimental cracking				Concrete: BETON20 = 0.713 m3 Formwork	
Hotel footings	S4	Number 1	surface = 2.5 m2 Cover c1 = 5 cm, c2 = 3 cm		
			Density = 25.53 kg/m3		
			Scale for the view 1/20		Page 4/6
			Scale for the section 1/33		



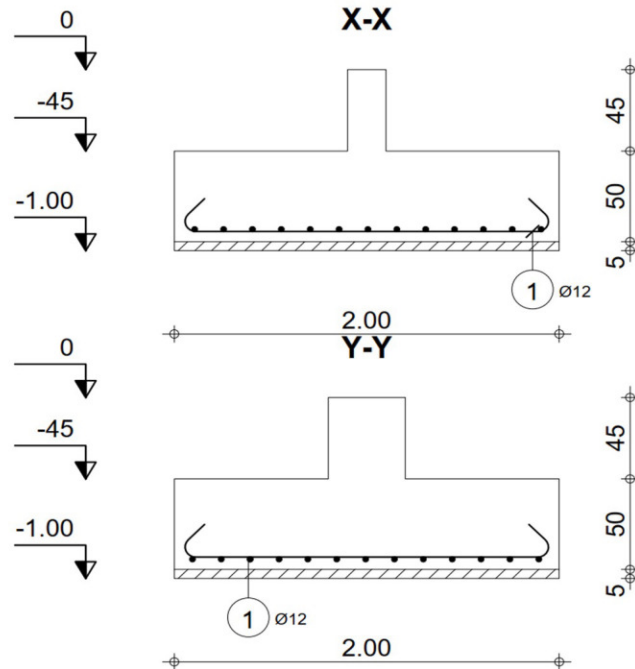
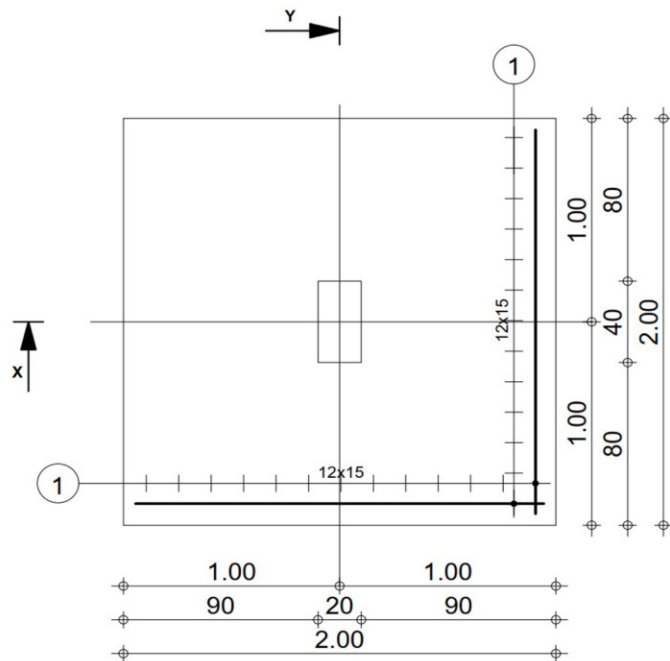
Pos.	Reinforcement	Form
1	22HA 12	$l=1.84$  1.50

		Tel	Fax	Steel HA 400 = 22.7 kg	
Detrimental cracking				Concrete: BETON20 = 1.05 m ³ Formwork	
Hotel footings		S5		surface = 3.06 m ² Cover c1 = 5 cm, c2 = 3 cm	
				Density = 21.62 kg/m ³	
		Number 1		Scale for the view 1/25 Scale for the section 1/33	Page 5/6



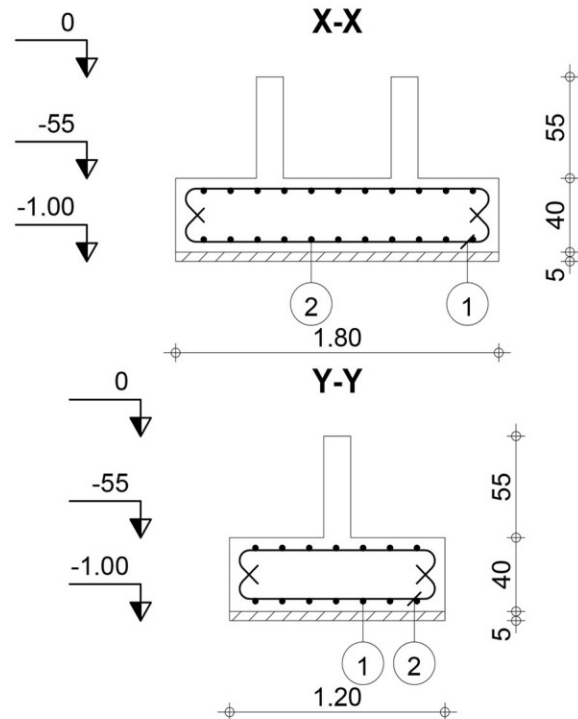
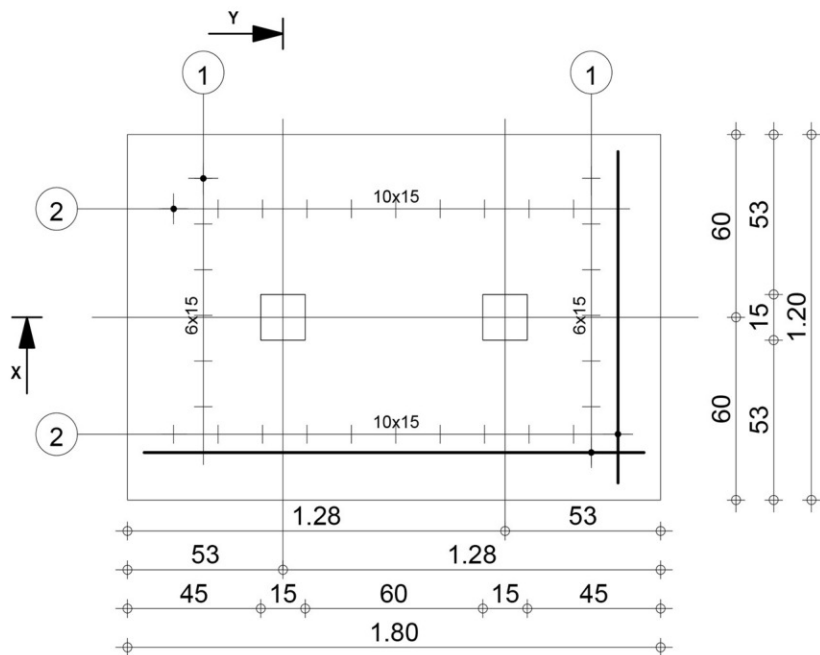
Pos.	Reinforcement	Form
1	24HA 12	l=1.84

		Tel.		Fax				Steel HA 400 = 22.7 kg	
		Detrimental cracking				Concrete: BETON20 = 1.05 m³			
Hotel footings		S6		Number 1		Formwork surface = 3.06 m² Cover c1 = 5 cm, c2 = 3 cm Density = 21.62 kg/m³			
						Scale for the view 1/25 Scale for the section 1/33		Page 6/6	



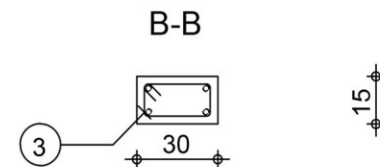
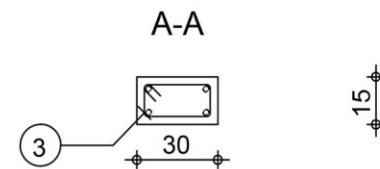
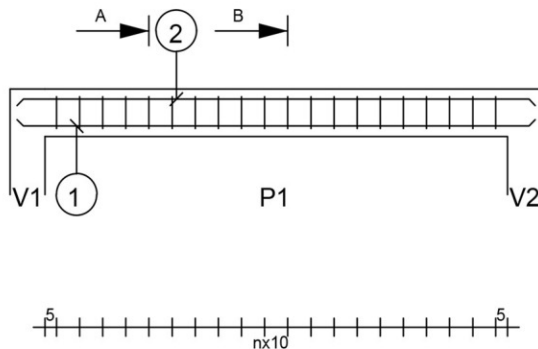
Pos.	Reinforcement	Form	Number
1	Ø12	l=2.28 1.90	26

Tel.		Fax		Concrete = 2.04 m ³ f _c ' = 20 MPa Formwork	
Detrimental cracking				surface = 4.54 m ² Cover c1 = 5 cm, c2 = 3 cm	
Hotel footings	S7	Number 1	Density = 25.78 kg/m ³		Scale for the view 3.66 cm/m Scale for the section 3.26 cm/m
			Page 7/15		



Pos.	Reinforcement	Form
1	14HA 12	l=2.08
2	22HA 12	l=1.48

		Tel.		Fax				Steel HA 400 = 54.8 kg	
		Detrimental cracking				Concrete: CONCRETE20 = 0.889 m3 Formwork			
Hotel footings		SD1		Number 1		surface = 3.06 m2 Cover c1 = 5 cm, c2 = 3 cm			
						Density = 61.64 kg/m3			
						Scale for the view 1/20		Page	
						Scale for the section 1/33		7/7	



Pos.	Reinforcement	Form
①	2HA 12	_____
②	2HA 10	_____
③	nHA 6	

Longrines
Hotel

Lo1 Section
15×30

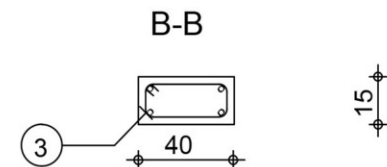
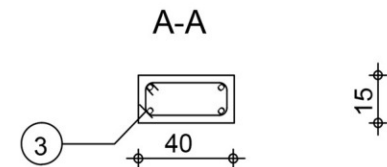
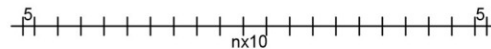
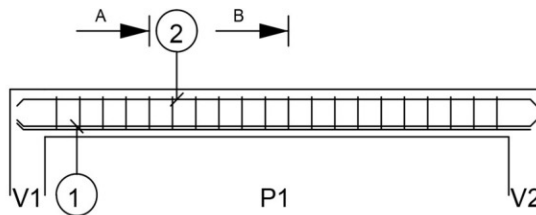
Tel.

Fax

Bottom cover 3 cm Side
cover 3 cm Scale for the
view 1/25 Scale for the
section 1/25

Top cover 3 cm

Page 3.



Pos.	Reinforcement	Form
①	4HA 12	
②	2HA 10	
③	nHA 6	

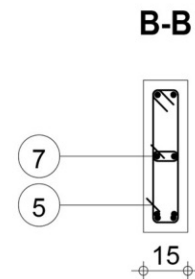
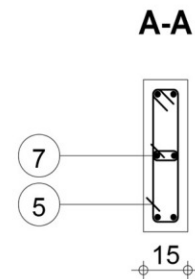
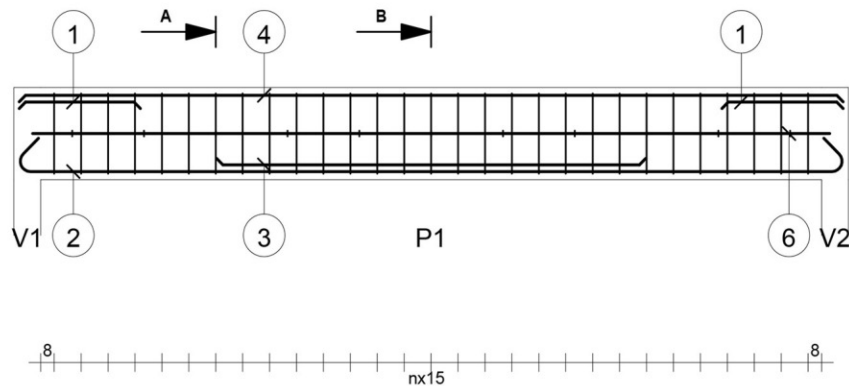
Grade
beams hotel

L02 Section
15×40

Lower cover 3 cm
Lateral cover 3 cm
Scale for the view 1/25
Scale for the section 1/25

Upper cover 3 cm

Page 3



Pos.	Reinforcement	Form
1	4HA 12	
2	2HA 12	
3	2HA 12	
4	2HA 10	
5	nHA 6	
6	2HA 10	
7	nHA 6	

Hotel grade
beams

Beam 3
Section
15x50

Tel

Fax

Lower cover 3 cm

Lateral cover 3 cm

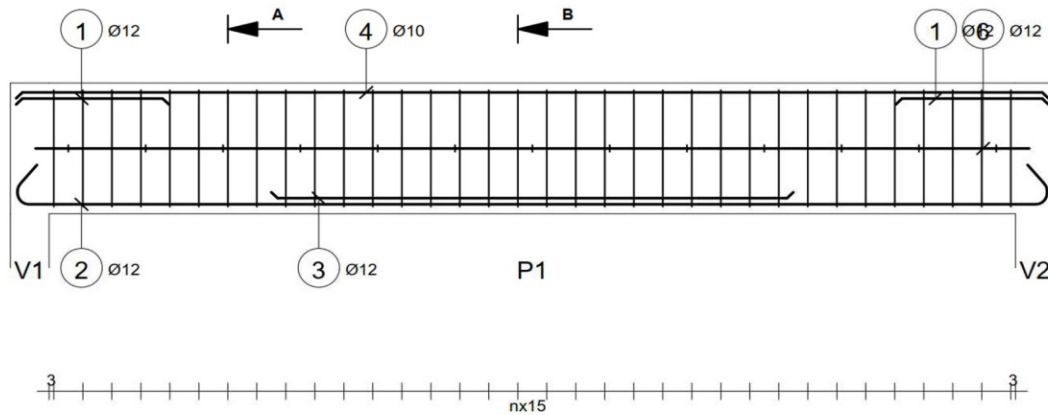
Scale for the view 1/33

Scale for the section

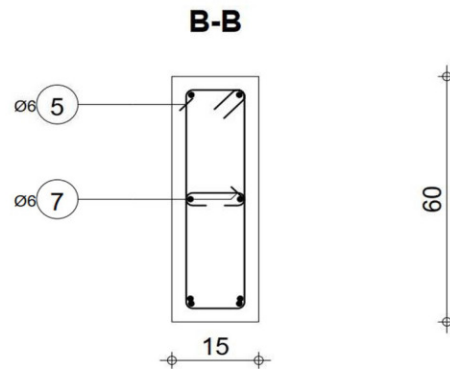
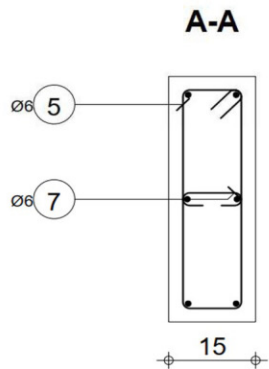
1/20

Upper cover 3 cm

Page 2



Pos.	Armature	Forme	Nombre
1	Ø12	_____	4
2	Ø12		2
3	Ø12	_____	2
4	Ø10	_____	2
5	Ø6		
6	Ø12	_____	2
7	Ø6		



Longrines
hotel

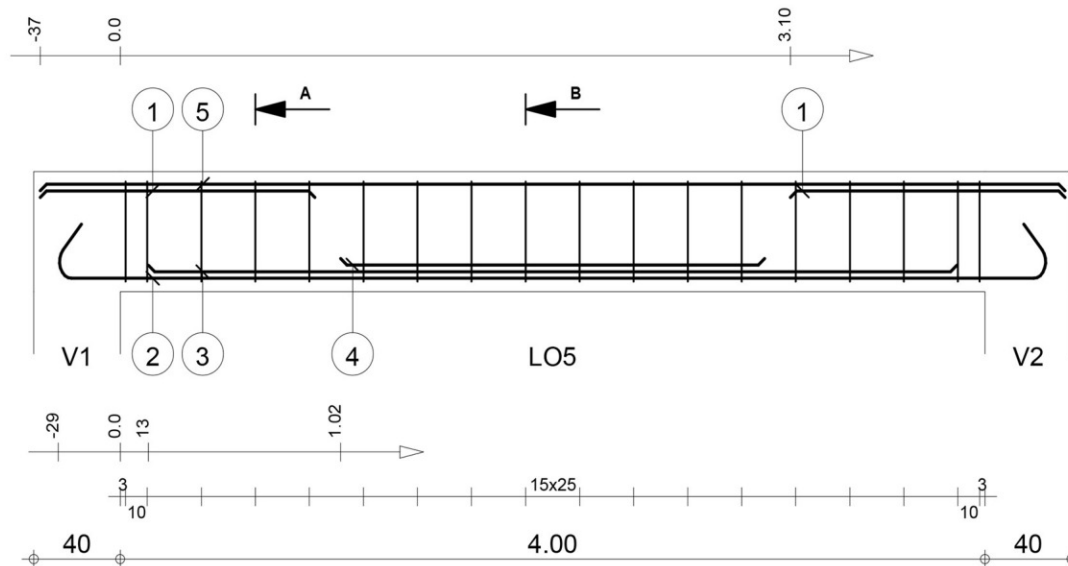
Lot 4
Section
15×60

Tel.

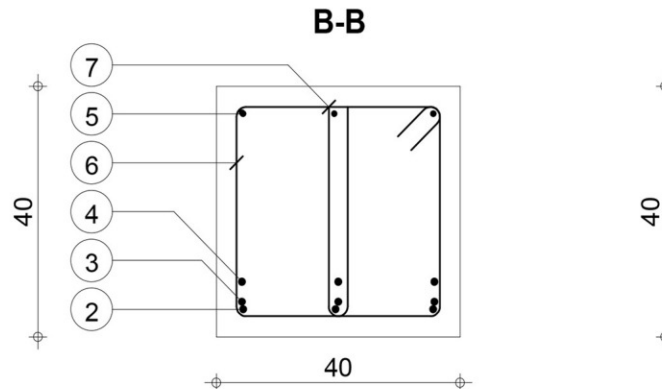
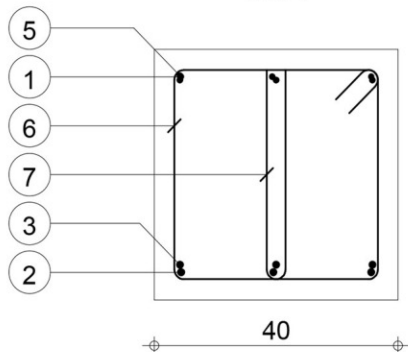
Fax

Bottom cover 3 cm Lateral cover 3 cm
3 cm Scale for the view
3.27cm/m x 3.92cm/m Scale for
the section 7.36cm/m

Page 3.



Pos.	Armature	Forme
①	6Ø10	l=1.27 — 1.27 —
②	3Ø12	l=4.95 — 4.57 —
③	3Ø12	l=3.74 — 3.74 —
④	3Ø12	l=1.96 — 1.96 —
⑤	3Ø6	l=4.74 — 4.74 —
⑥	18Ø6	l=1.48 — 34 — 34 —
⑦	18Ø6	l=69 — 0.0 — 34 —



**LONGRINES
HOTEL**

**LO5 Section
40x40**

Tel.

Fax

Steel HA 400 = 44.9 kg

Concrete: C20/25 = 0.768 m3

Formwork surface = 5.76 m2

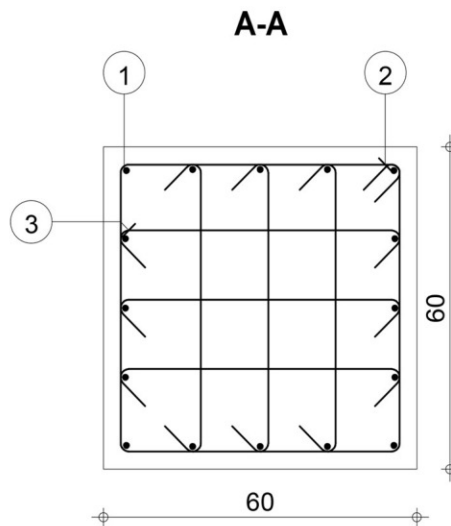
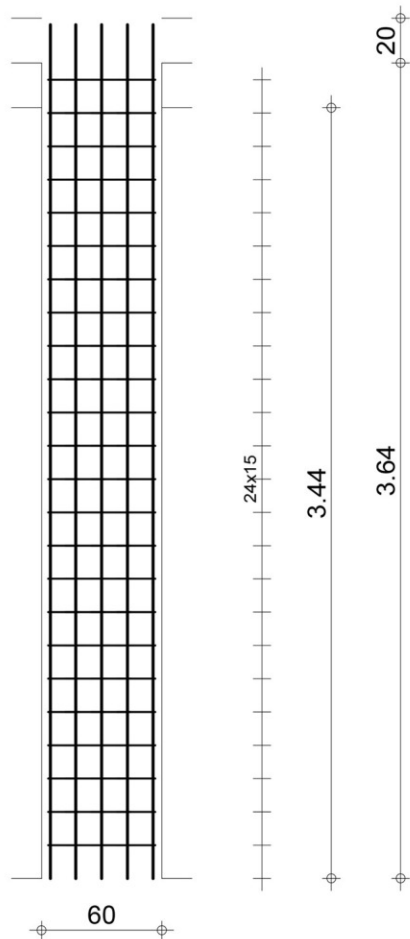
Upper cover 3 cm

Lower cover 3 cm Lateral cover 3 cm Scale

for the view 3.65 cm/m x 4.92 cm/m Scale

for the section 10.3 cm/m

Page 1



Pos.	Reinforcement		Form
①	16Ø12	l=3.81	3.81
②	24Ø6	l=2.28	54 8
③	144Ø6	l=70	54

Tel.

Fax

Steel HA 400 = 54,1 kg

Concrete: C20/25 = 1.24 m³

Steel HA 400 = 34,4 kg

Formwork surface = 8.26 m²

Covering 3 cm

Scale for the view 3.39 cm/m x 3.68 cm/m
Scale for the section 8.83 cm/m

Page 1/1

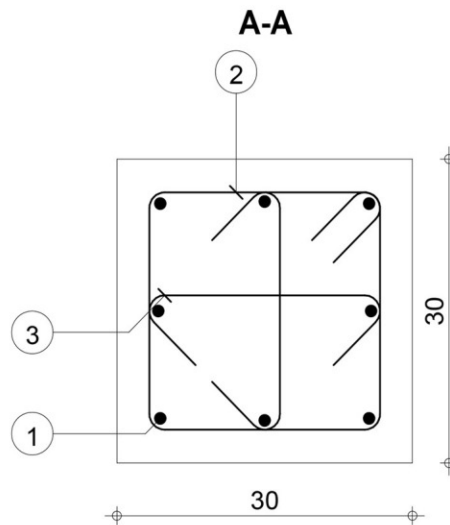
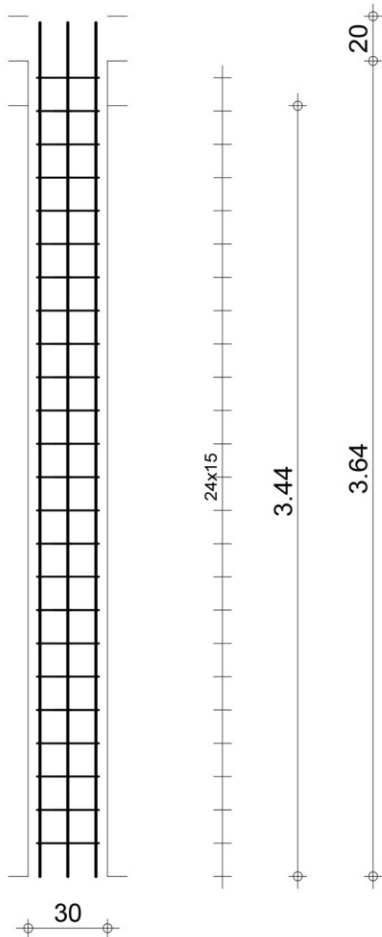
R

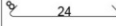
PRO

**Reinforcement
Schedule Columns**

P5

Section 60×60



Pos.	Reinforcement	Form
1	6012 ^o	l=3.81 3.81
2	2406	l=1.08 
3	4806	l=40 



REINFORCEMENT SCHEDULE FOR POSTS

P6

Section 30x30

Tel.

Fax

HA 400 steel = 27.1

Concrete: C20/25 = 0.31 m3

kg HA 400 steel =

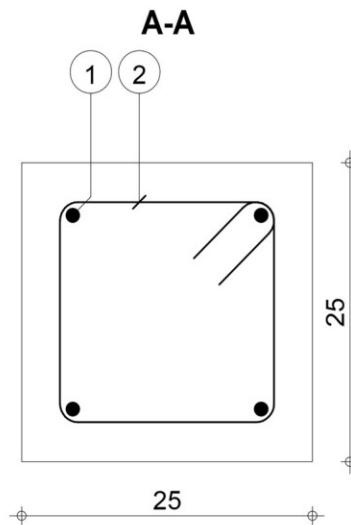
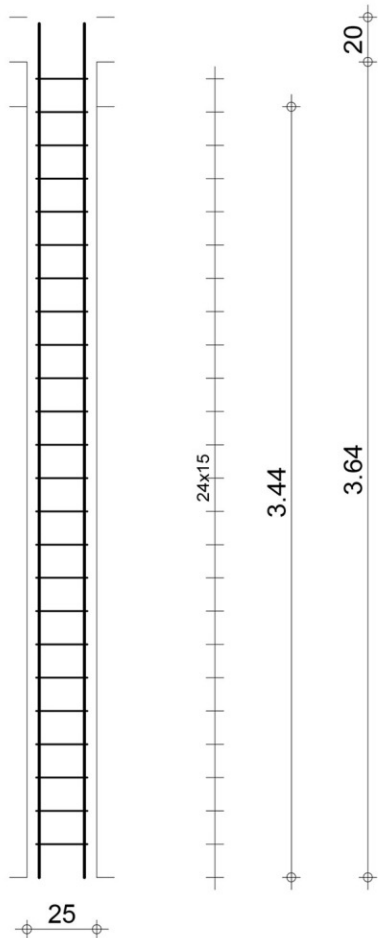
Formwork surface = 4.13 m2

9.96 kg 3 cm cover

Scale for the view 4.47 cm/m x 3.68

cm/m Scale for the section 16.7 cm/m

Page 1/1



Pos.	Reinforcement	Form
①	4Ø12 ^o l=3.81	3.81
②	24Ø6 l=88	19 8 16



REINFORCEMENT
SCHEDULE COLUMNS

P7 Section
25x25

Tel.

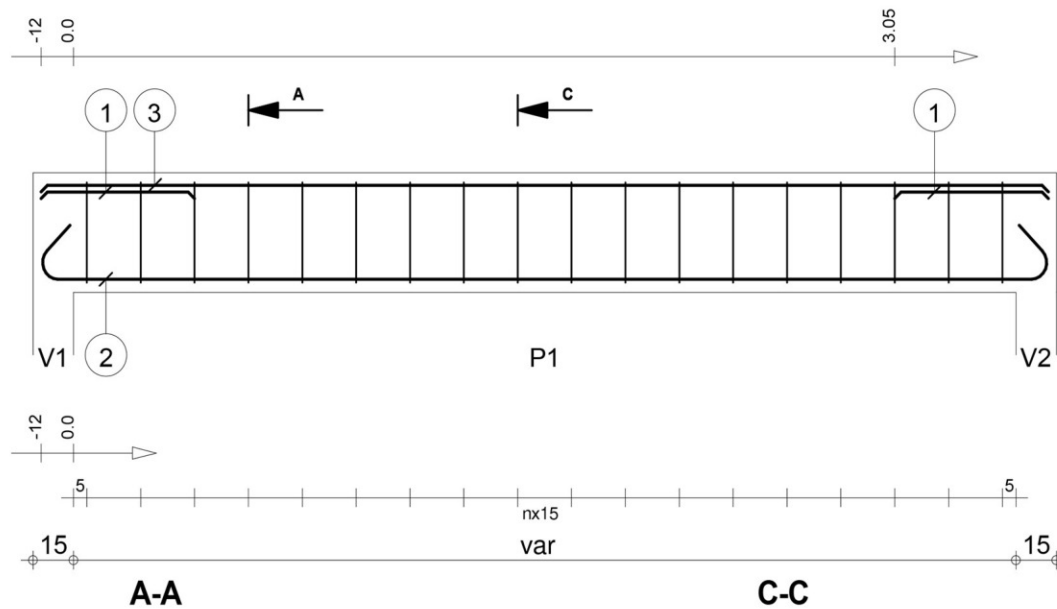
Fax

Steel HA 400 = 13.5
kg Steel HA 400 =
4.68 kg Cover 3 cm

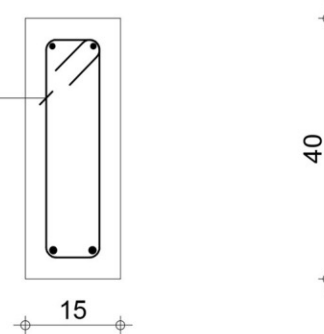
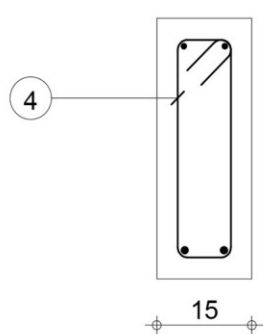
Concrete: C20/25 = 0.215 m³
Formwork surface = 3.44 m²

Scale for the view 4.72 cm/m x 3.68 cm/m
Scale for the section 19.7 cm/m

Page 1/1 .



Pos.	Reinforcement	Form
1	40110°	L-2-31
2	2012	I=var
3	208	I=var
4	1806	I=98



BEAMS

A1 Section
15×40

Tel.

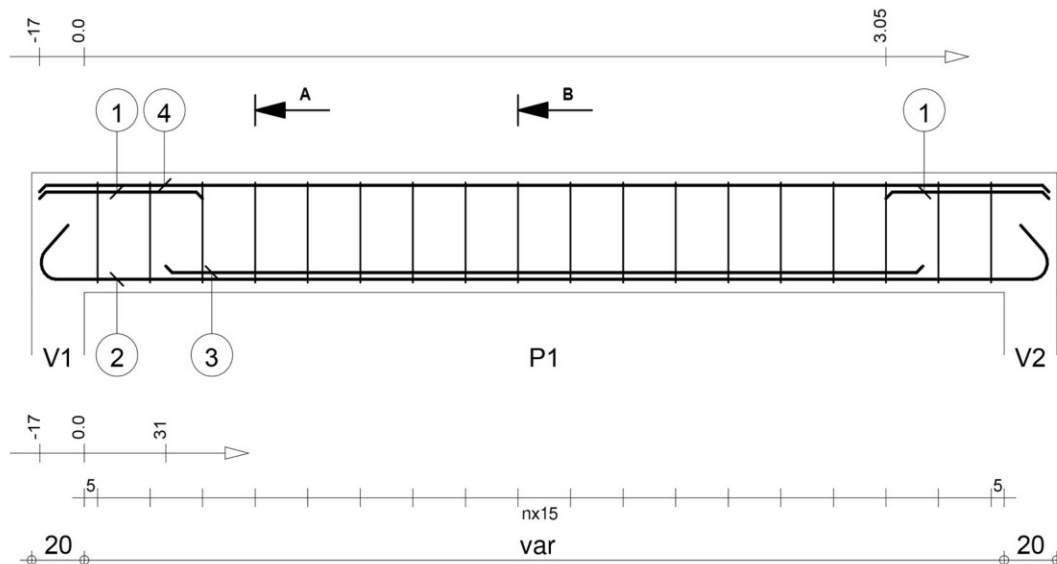
Fax

Steel HA 400

Concrete: C20/25

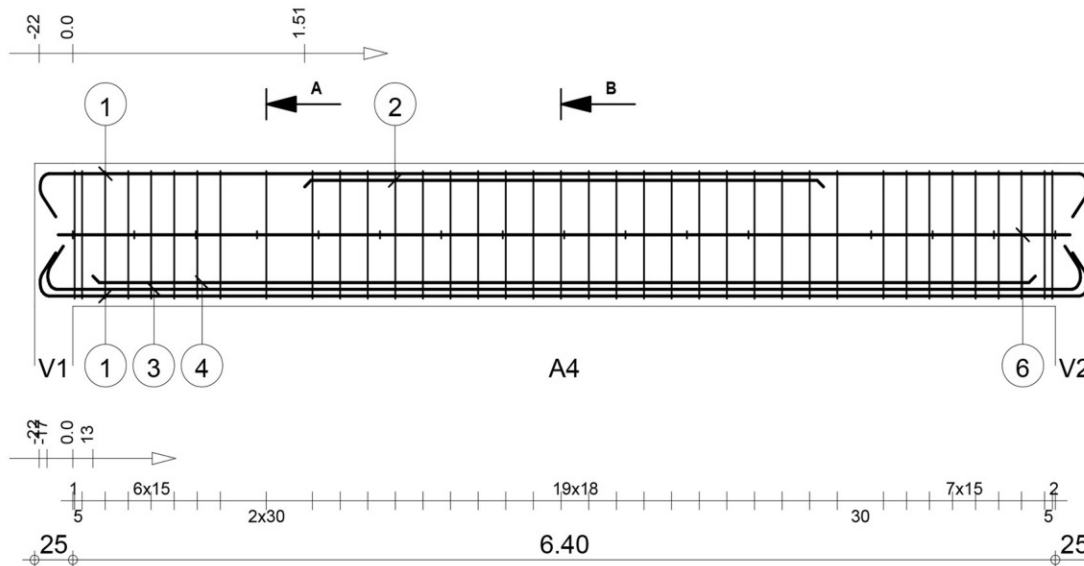
Lower cover 3 cm
Lateral cover 3 cm

Upper cover 3 cm

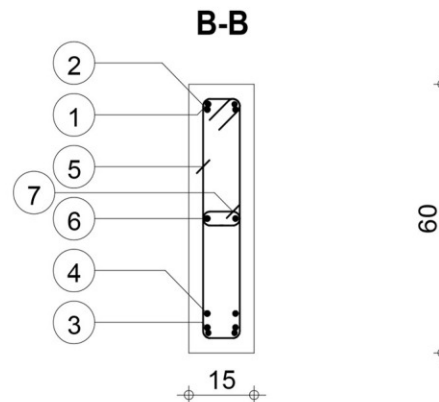
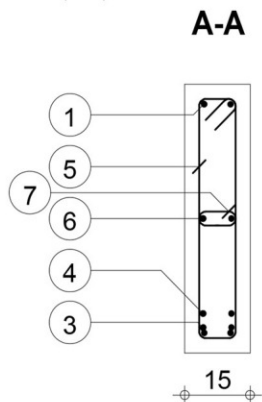


Pos.	Reinforcement	Form
1	4010 ²	1-2-82
2	2012	l=var
3	2012	l=var
4	208	l=var
5	1806	l=98

BEAMS	A2 Section 15×40	Tel.	Fax	HA 400 Steel	Concrete: C20/25
				Bottom cover 3 cm	Top cover 3 cm
				Side cover 3 cm	



Pos.	Reinforcement	Form
1	4Ø12 ^o	l=7.22 3.84
2	2Ø12	l=3.38 3.38
3	2Ø12	l=7.12 6.74
4	2Ø12	l=6.14 6.14
5	3Ø6	l=1.38 9
6	2Ø10	l=6.59 6.59
7	17Ø6	l=21 5 9



BEAMS

A4

Section 15x60

Tel.

Fax

Steel HA 400 = 75.7 kg

Concrete: C20/25 = 0.621

m³ Formwork surface =

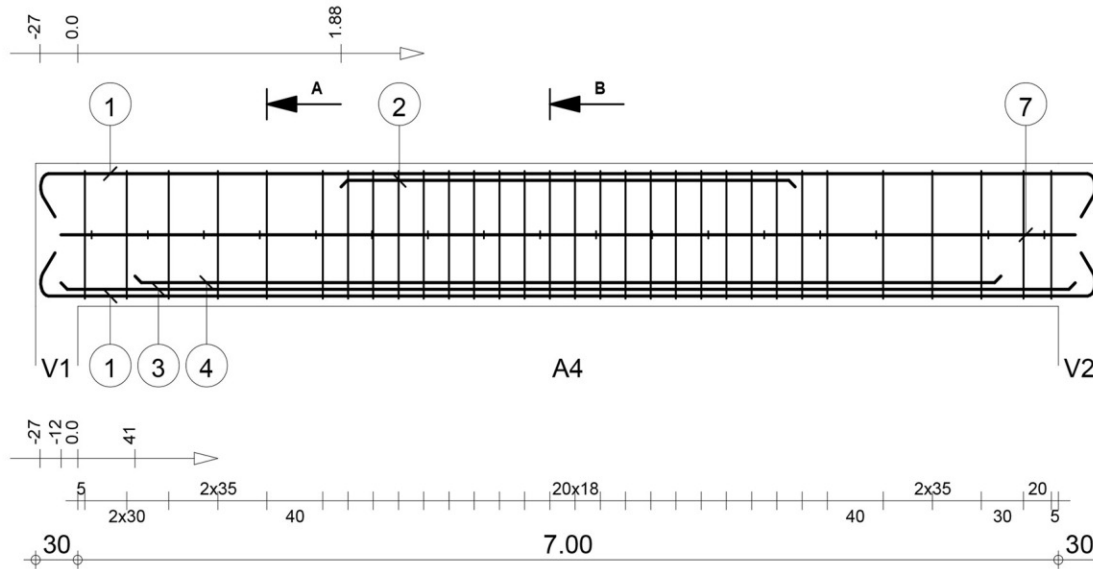
9.42 m² Top cover 3 cm

Bottom cover 3 cm Side cover 3 cm

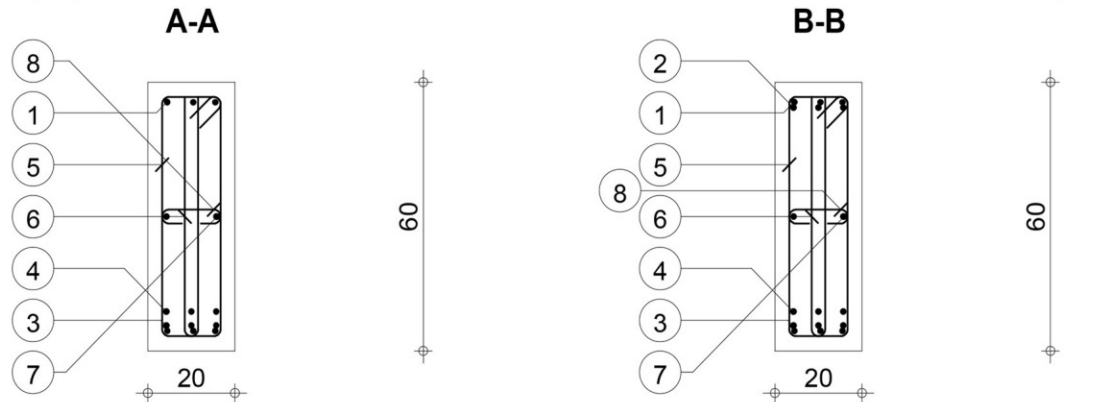
Scale for the view 2.59 cm/m x 3.92

cm/m Scale for the section 7.36 cm/m

Page 1



Pos.	Reinforcement	Form
1	6Ø12	l=7.92 3.54
2	3Ø12	l=3.24 3.24
3	3Ø12	l=7.24 7.24
4	3Ø12	l=6.18 6.18
5	31Ø6	l=1.48 14 8 0.0 8
6	31Ø6	l=1.09 0.0 8
7	2Ø10	l=7.24 7.24
8	18Ø6	l=26 5 14



BEAMS

A5

Section 20x60

Tel

Fax

Steel HA 400 = 114 kg

Concrete: C20/25 = 0.912

m3 Formwork surface =

10.8 m2 Top cover 3 cm

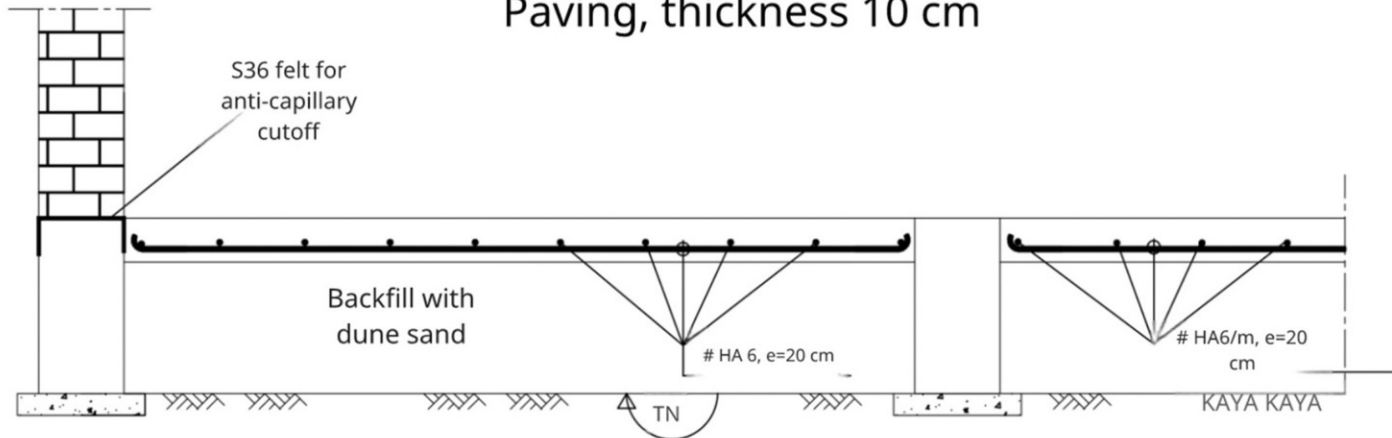
Bottom cover 3 cm Side cover 3 cm Scale

for the view 2.37cm/m x 3.92cm/m Scale

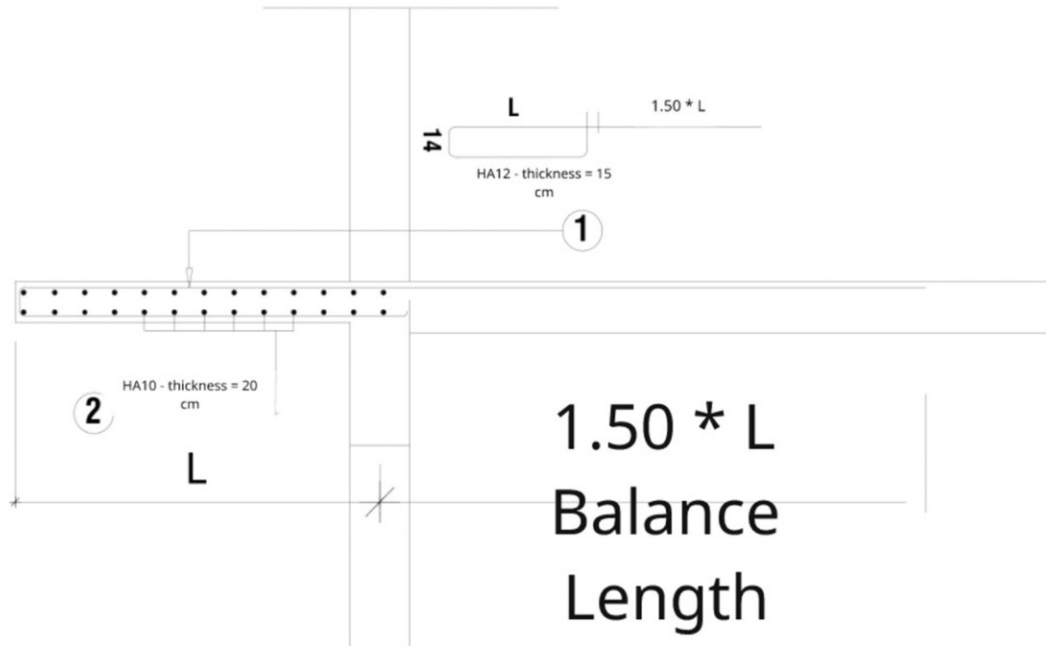
for the section 7.36cm/m

Page 1

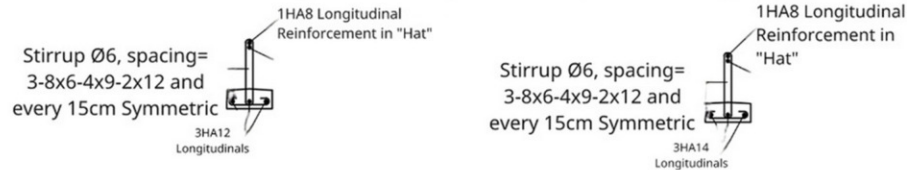
Paving, thickness 10 cm



Cantilever Slab - Cut Type

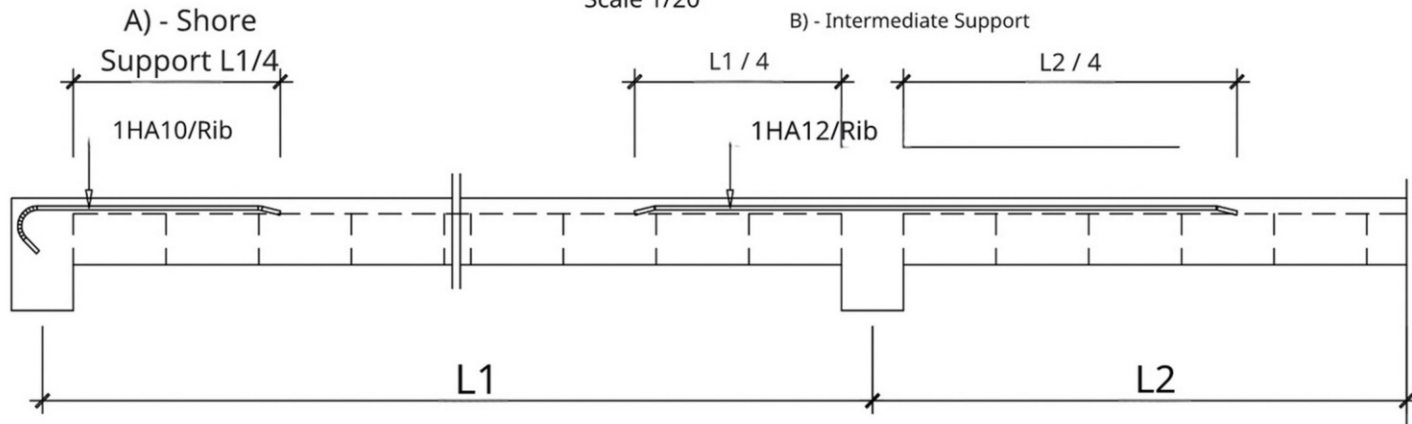


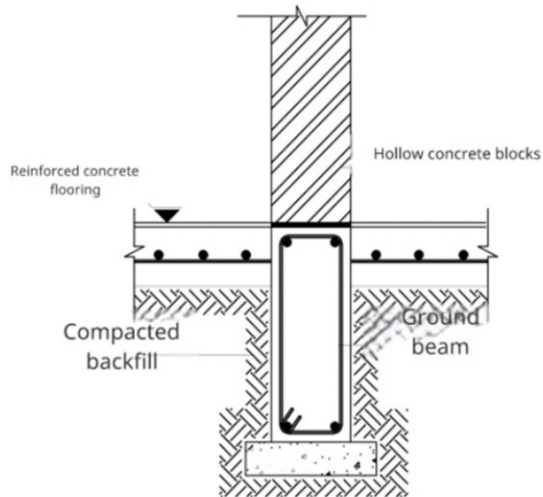
REINFORCEMENT OF RIBS N1 (16+4) N2 (16+6)



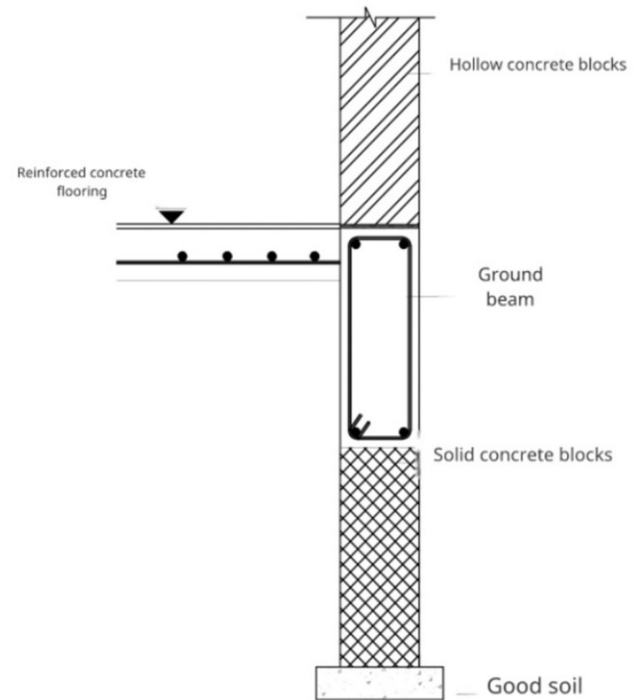
"HAT" REINFORCEMENT IN PREFABRICATED RIBS

Scale 1/20

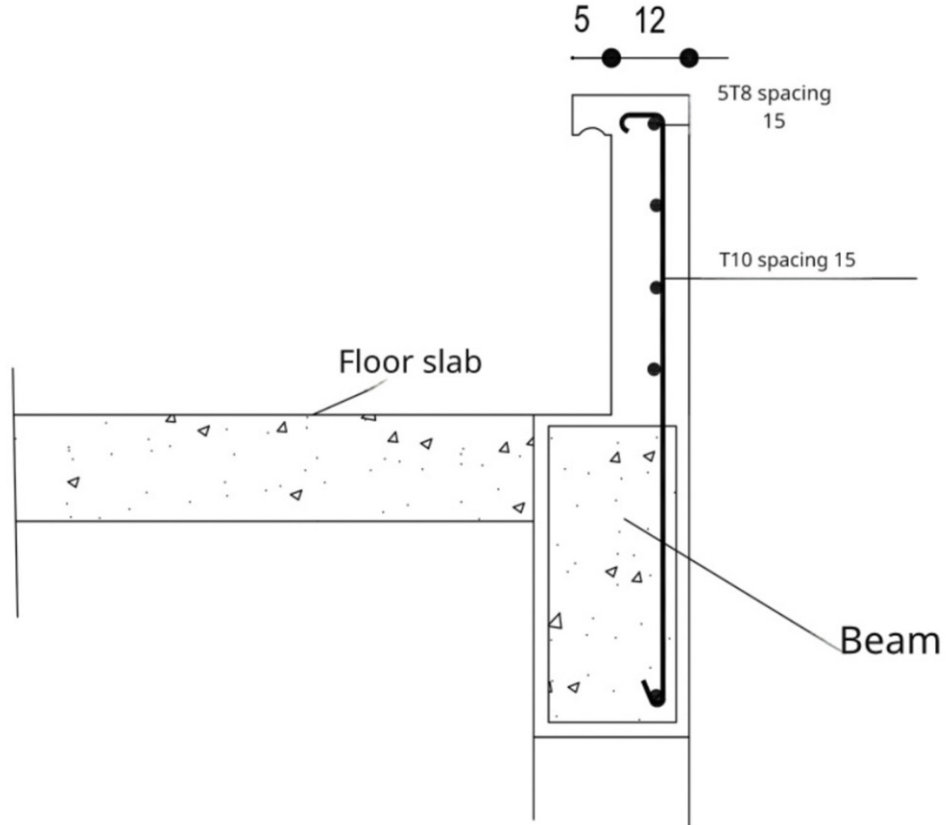




Section on
intermediate
ground beam

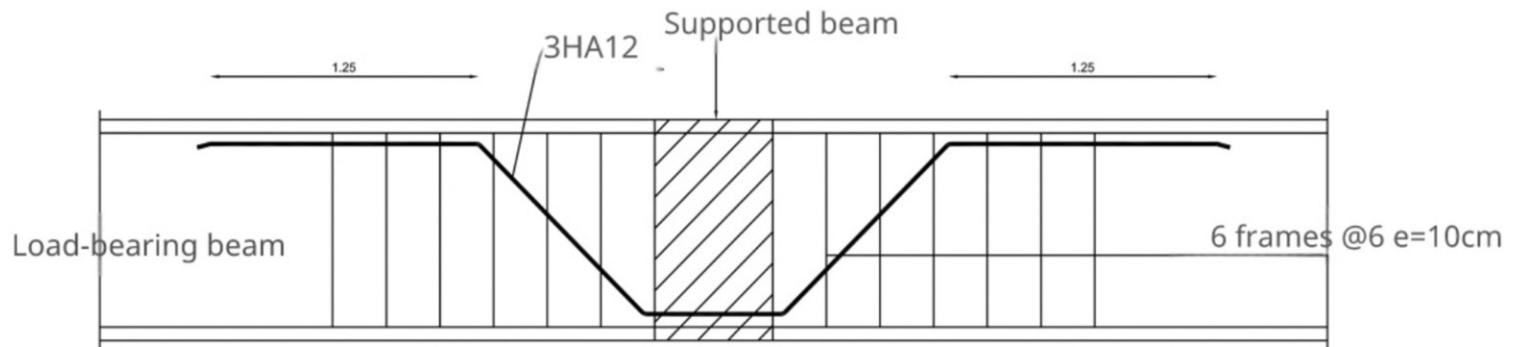


Section on
peripheral
ground beam

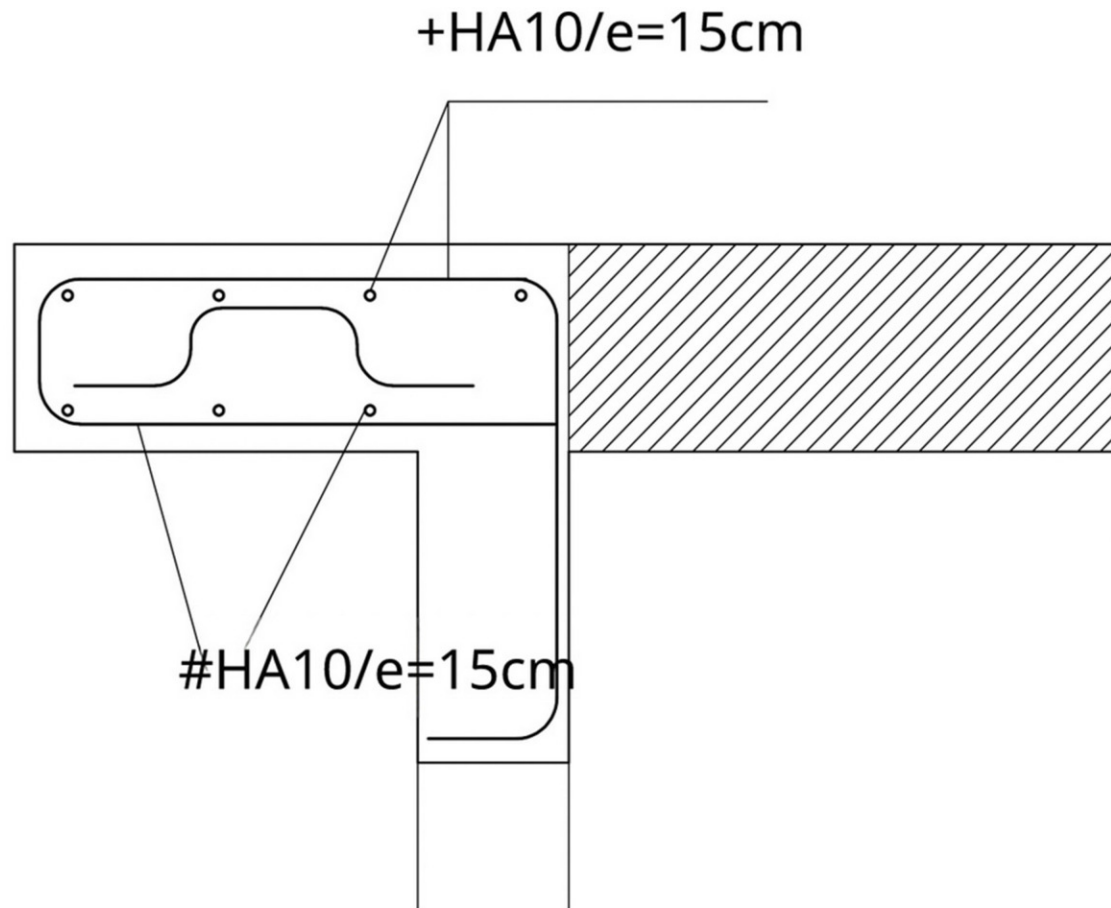


Parapet detail

Provide 3HA12 on boat, beams in accordance with the at the crossing point detail below

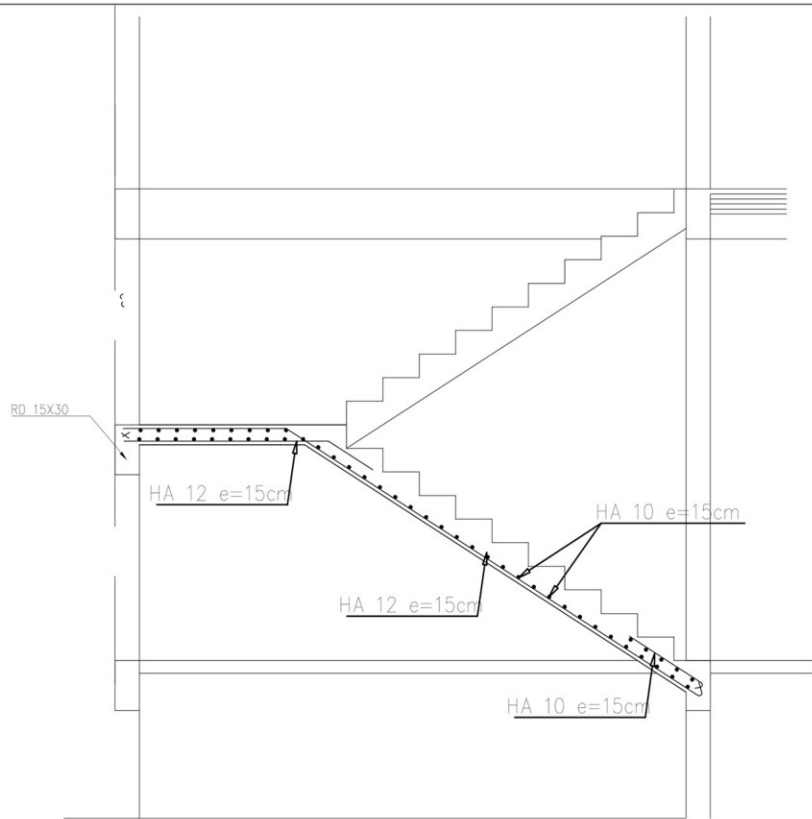


Detail of beam resting on another.

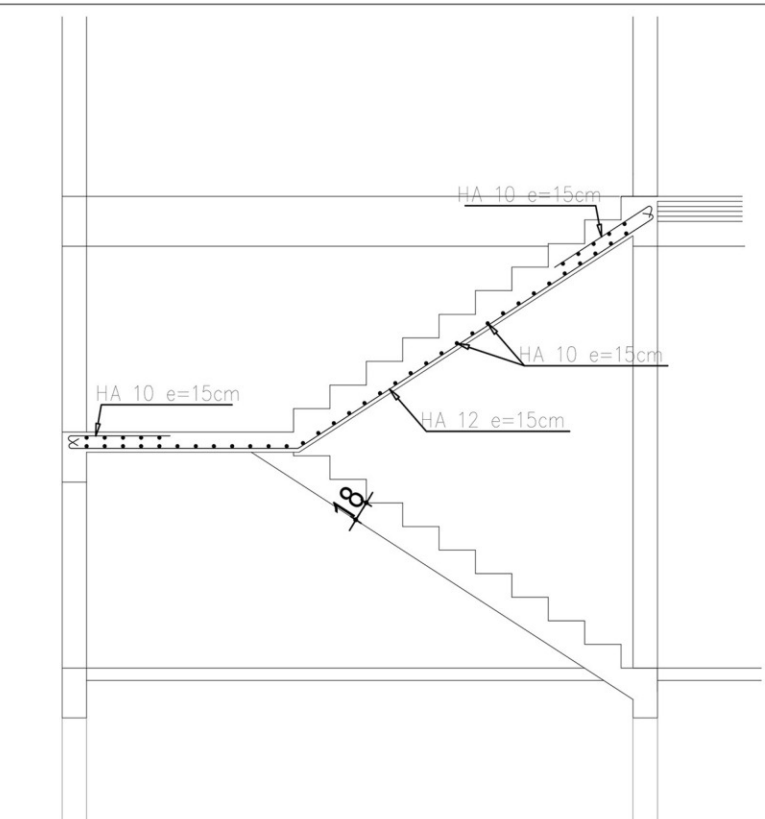


Beam nose or stringer.

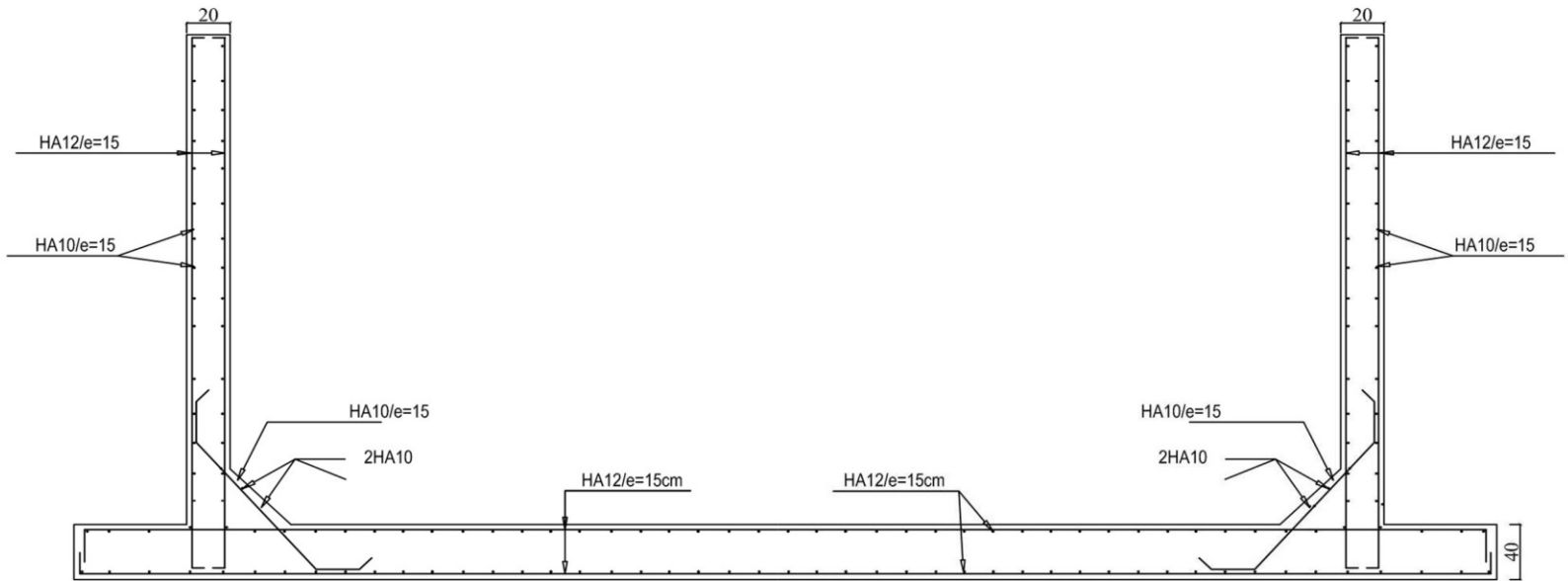




Stolen Rebar 1



Stolen Rebar 2



Details of walls and swimming pool raft foundation.