



*Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering*

*Graduation Project  
Structural Design For Panorama Mall*

Done by :

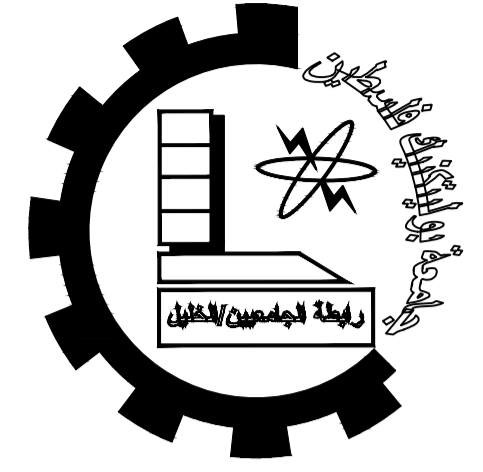
Hisham Shindy  
Ahmad Hajaj

Supervisor

*Dr.Nafeth Naser  
aldeen*

# LIST OF DRAWINGS

ARCHITECTURAL		STRUCTURE			
DWG.NO.	DWG.TITLE.	DWG.NO.	DWG.TITLE.	DWG.NO.	DWG.TITLE.
A00	Site Plan	S00	General Notes	S16	Shear Wall 7&8 Reinforcement
A01	Basement Floor Furniture	S01	Foundation Plan	S17	Shear Wall 9 Reinforcement
A02	Ground Floor Furniture	S02	Mat Foundation 1	S18	Shear Wall 10 Reinforcement
A03	1st Floor Furniture	S03	Mat Foundation 3	S19	Shear Wall 11&12 Reinforcement
A04	2nd-5th Floor Furniture	S04	Mat Foundation 2	S20	Shear Wall 13&14 Reinforcement
A05	Basement Floor Dimension	S05	isolated Foundation	S21	Basement & Shear Wall 15 Reinforcement
A06	Ground Floor Dimension	S6	Strip &combined footing	S22	Basement Floor Rib Distribution
A07	1st Floor Dimension	S7	Column's Plan	S23	Basement Floor Rib Reinforcement
A08	2ed- Floor Dimension	S8	Column's Detailings	S24	Ground Floor Rib Distribution
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A10	North &South Elevation	S10	Column C3 & C4	S26	Ground &1ST Floor Rib Reinforcement
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		S13	Shear Wall 1&2 Reinforcement	S29-S49	Beams Reinforcement Details
		S15	Shear Wall 3&4 Reinforcement	S50	Stair Reinforcement
		S15	Shear Wall 5&6 Reinforcement	S51	STAIRCASE FLOOR STEEL DIST & REIN



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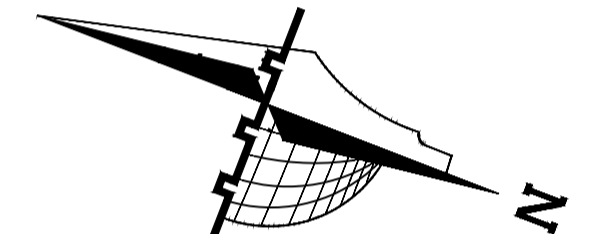
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*Panorama Mall*



### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materiales		GRASS

DRAWING TITLE :

LIST OF DRAWINGS

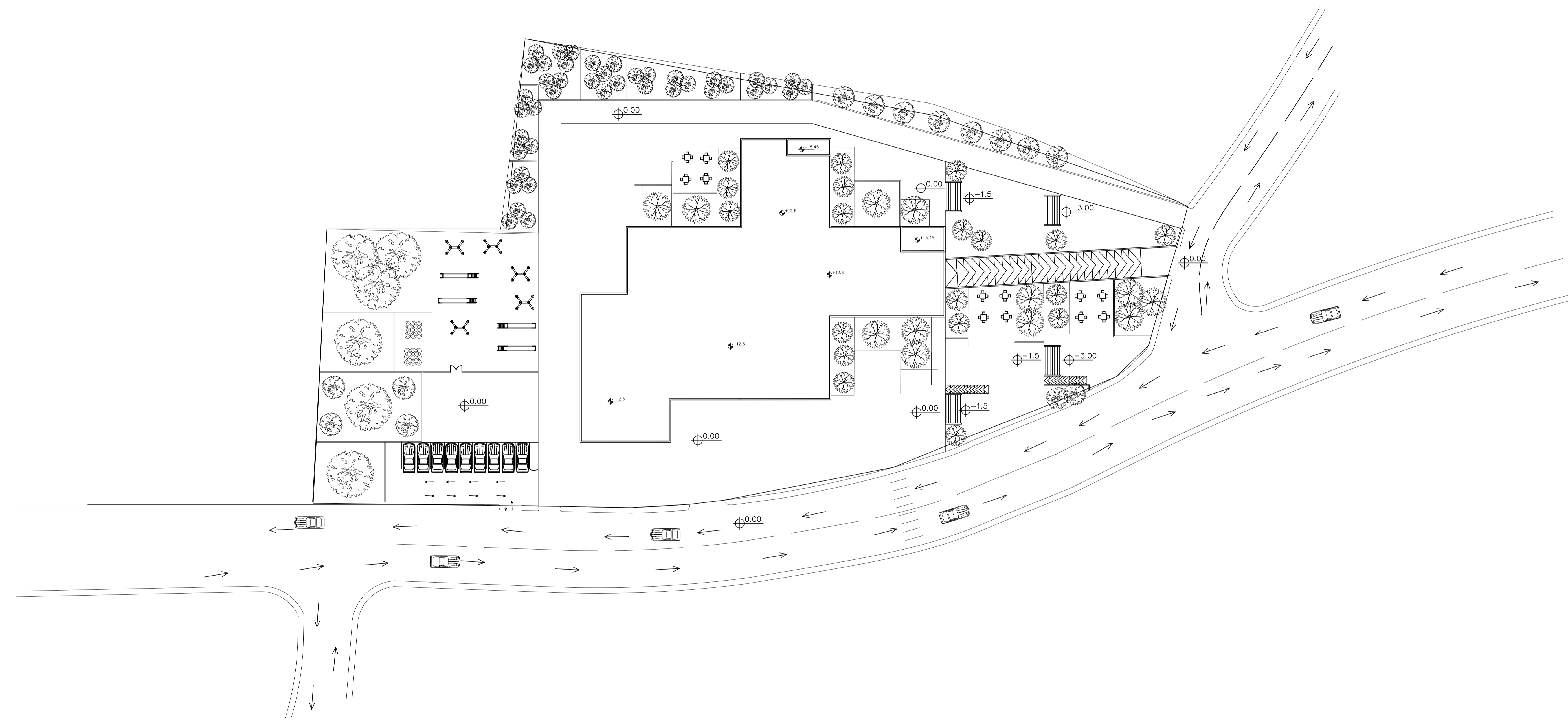
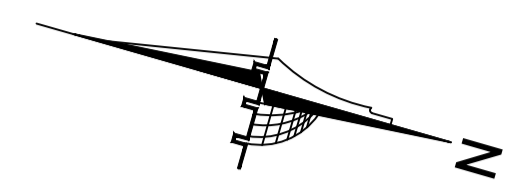
Supervisor

*Dr. Nafeth Naesr aldeen*

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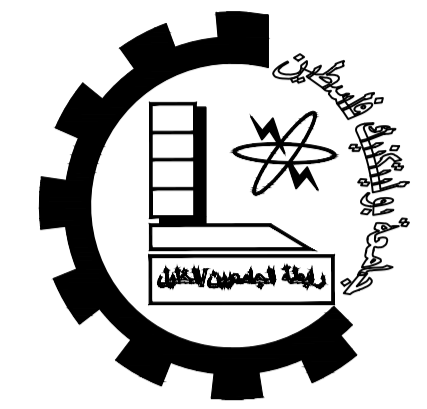
*Hisham Shindy  
Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/150		4/06/2024



1  
A00

Site Plan  
scale 1/500



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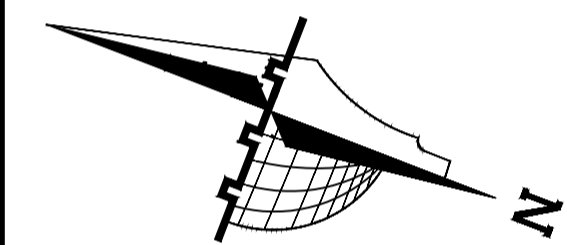
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**Legend :**

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

*Basement Floor Dimension*

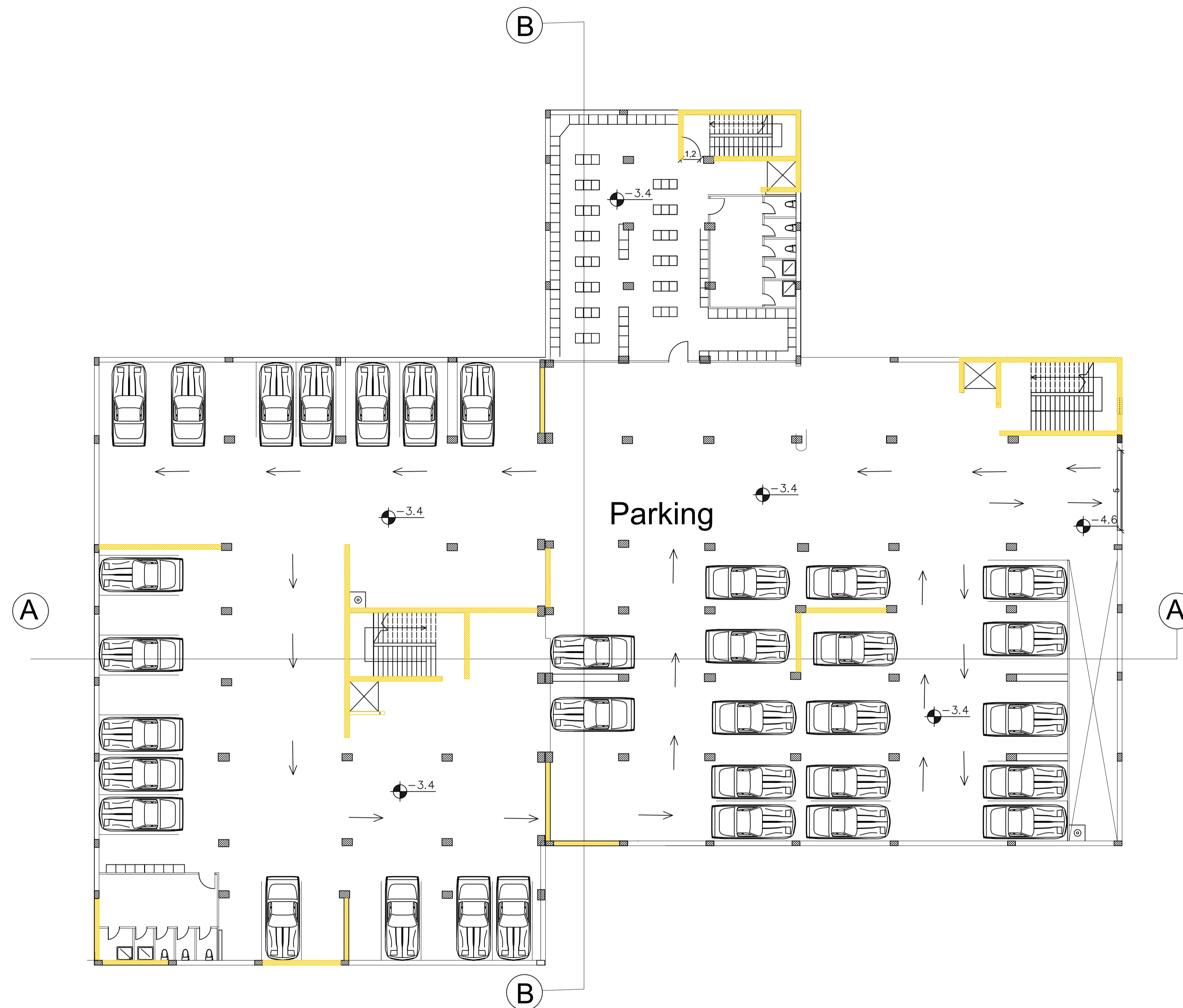
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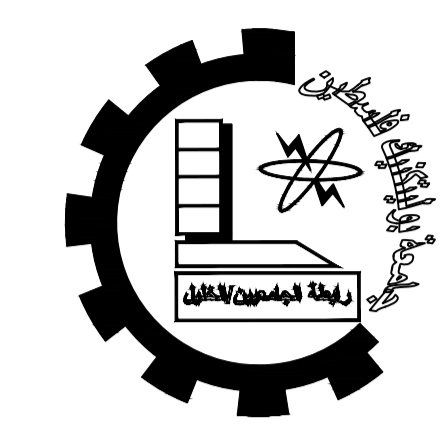
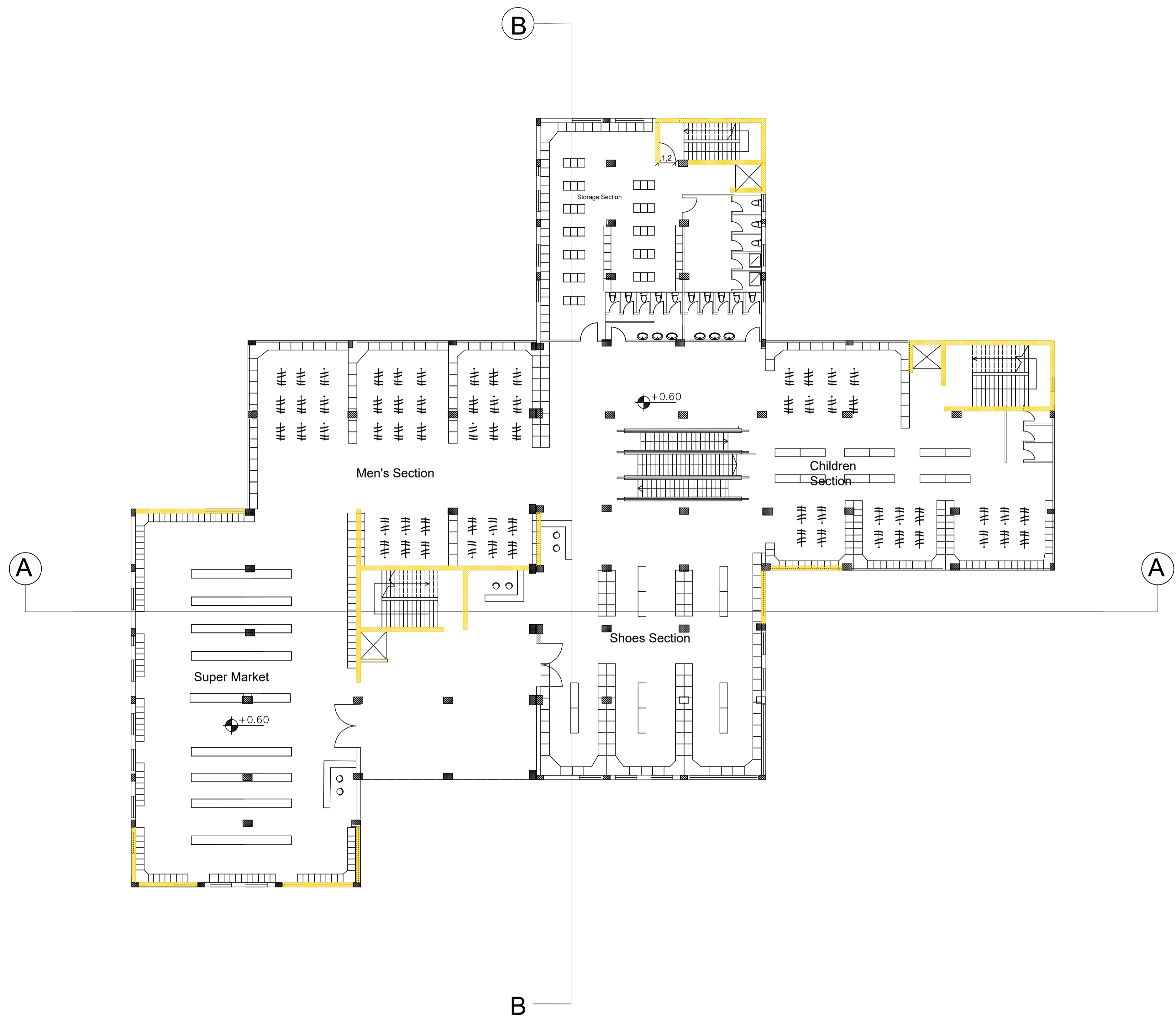
*Dr. Nafeth  
Naesr aldeen*

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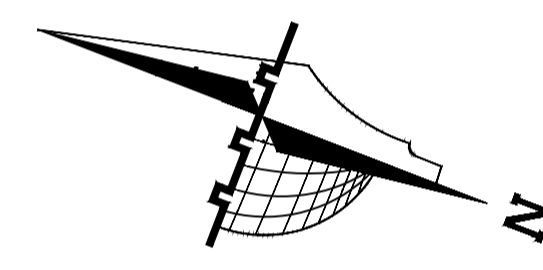
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1/200	A1	04/6/2024





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*Panorama Mall*



**Legend :**

- Stone
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- Concrete
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- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

*Ground Floor Furn Plan*

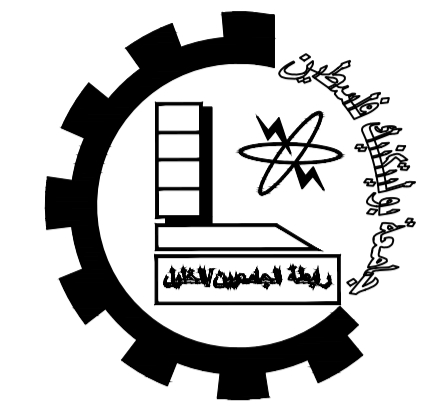
Supervisor

*Dr. Nafeth Naesr aldeen*

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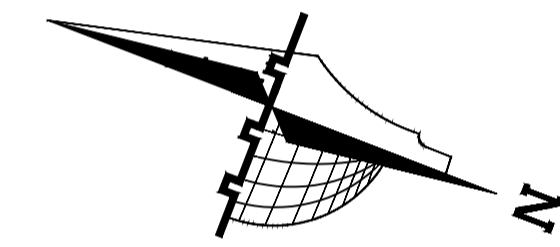
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 Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/200	A2	04/6/2024



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*Panorama Mall*



**Legend :**

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materiales
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

*1 Floor Four Plan*

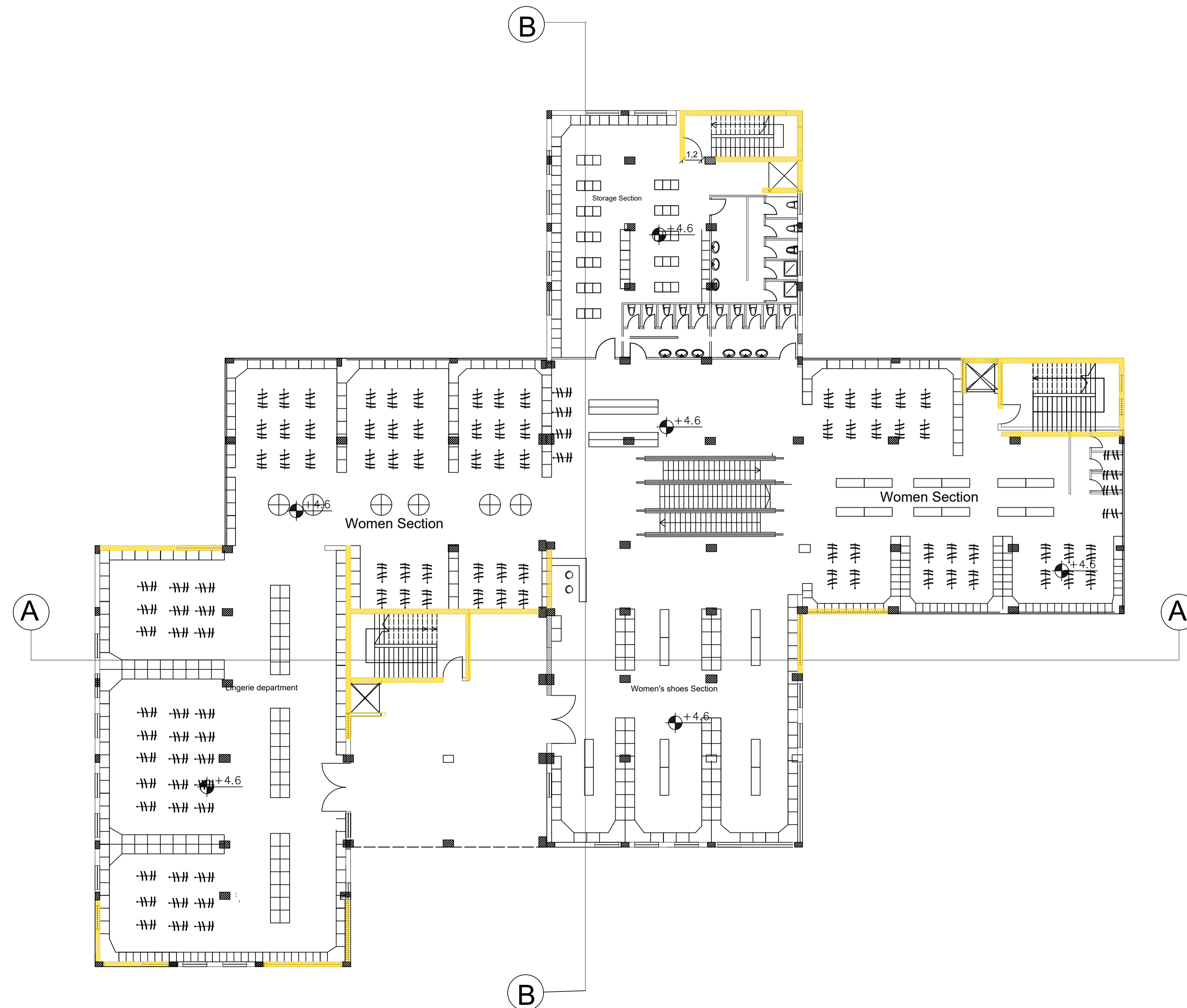
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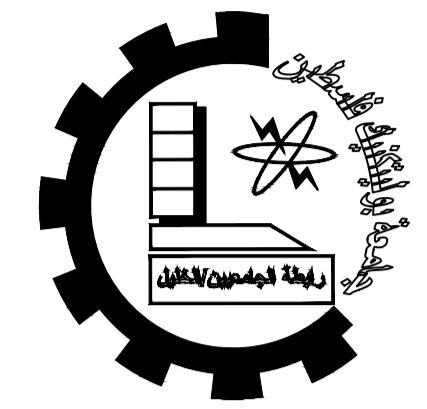
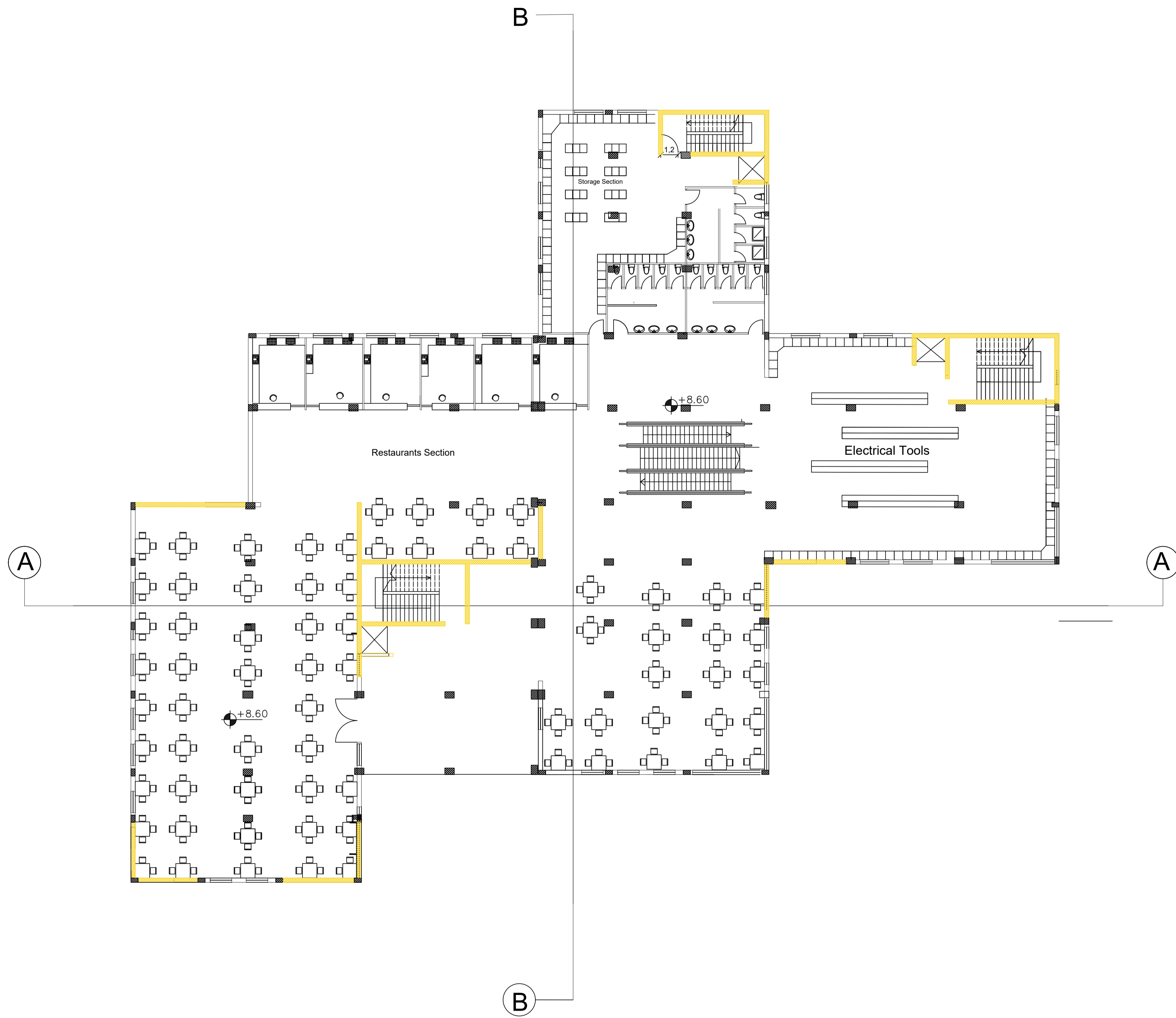
*Dr. Nafeth  
 Naesr aldeen*

Done by :

*Hisham Shindy  
 Ahmad Hajaj*

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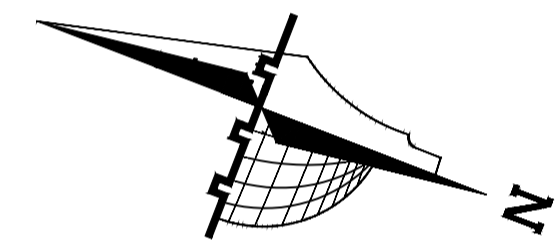
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*Panorama Mall*



**Legend :**

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

*2 Floor Four Plan*

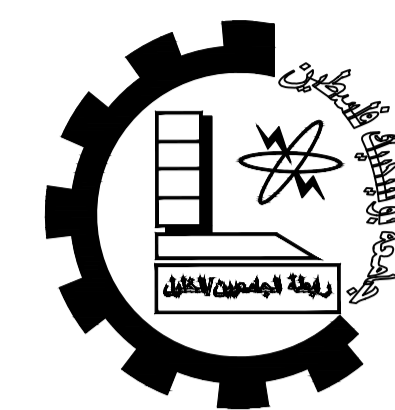
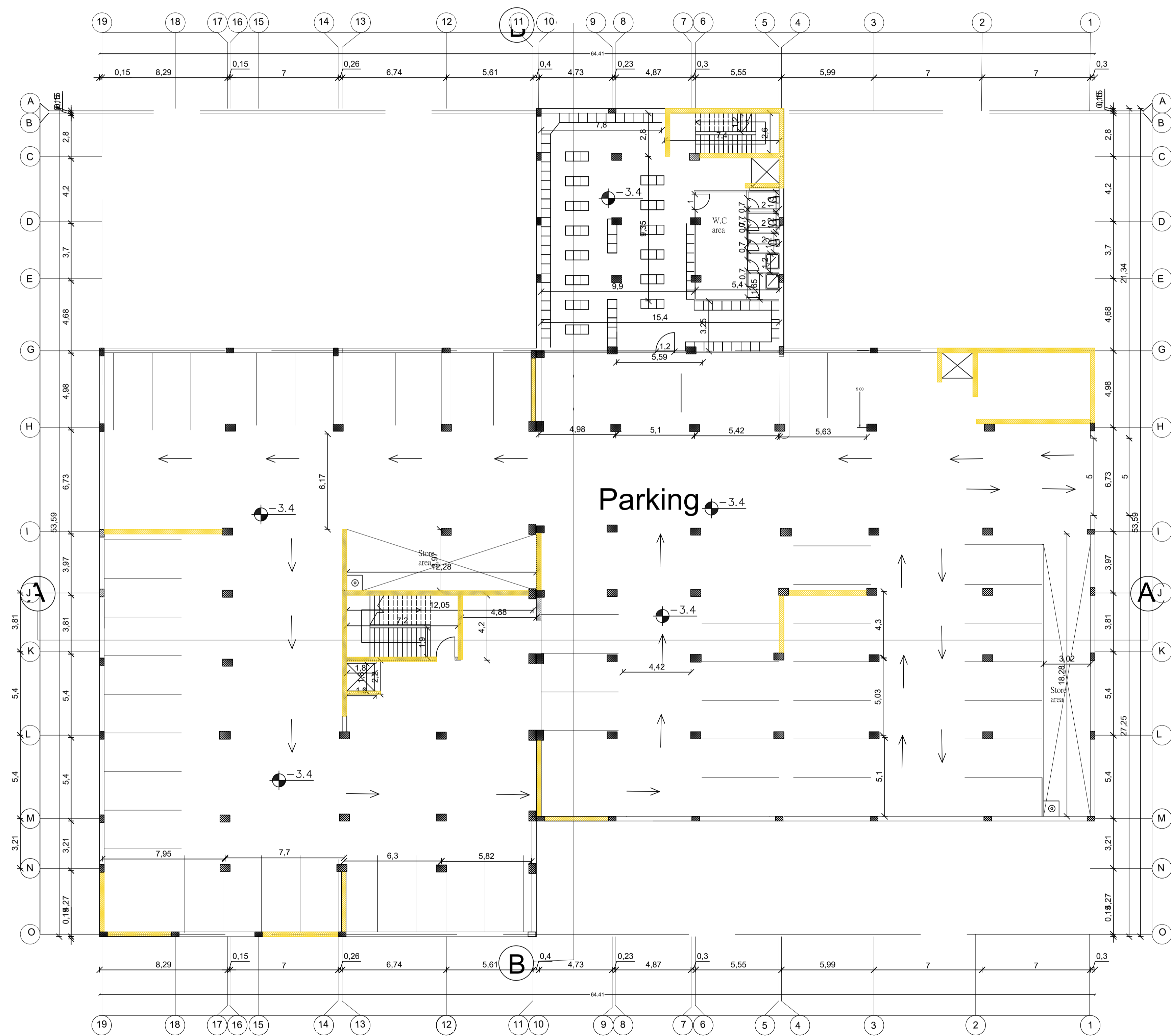
Supervisor

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Naesr aldeen*

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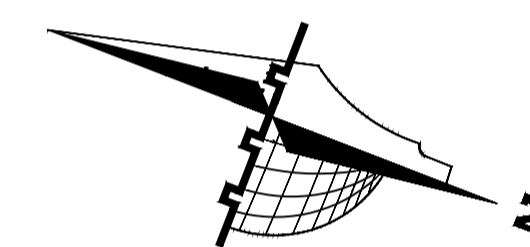
*Hisham Shindy  
Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/200	A4	04/6/2024



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**Legend :**

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

*Basement floor Dim plan*

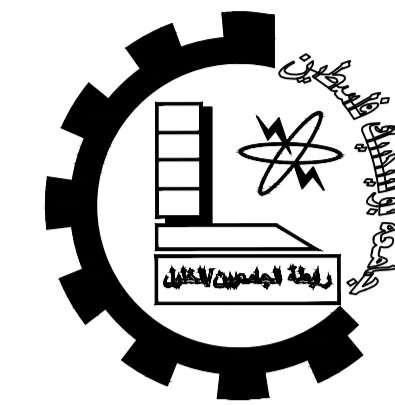
Supervisor

*Dr. Nafeth Naesr aldeen*

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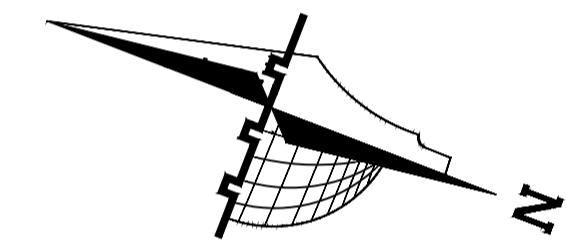
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 Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/200	A5	04/6/2024



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**Legend :**

- Stone
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- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

*Ground Floor Dim Plan*

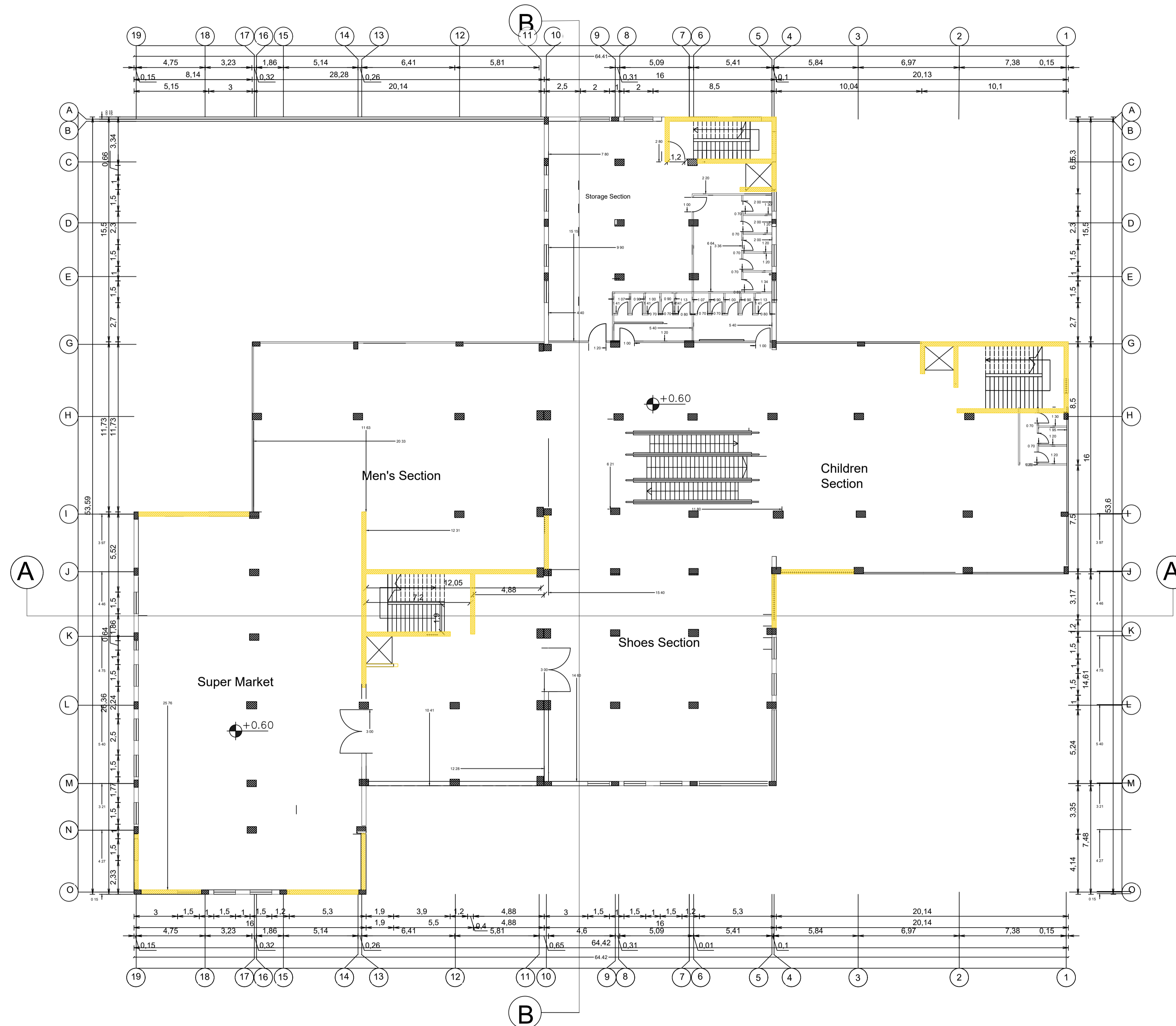
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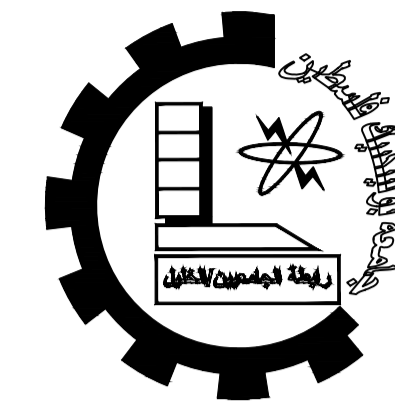
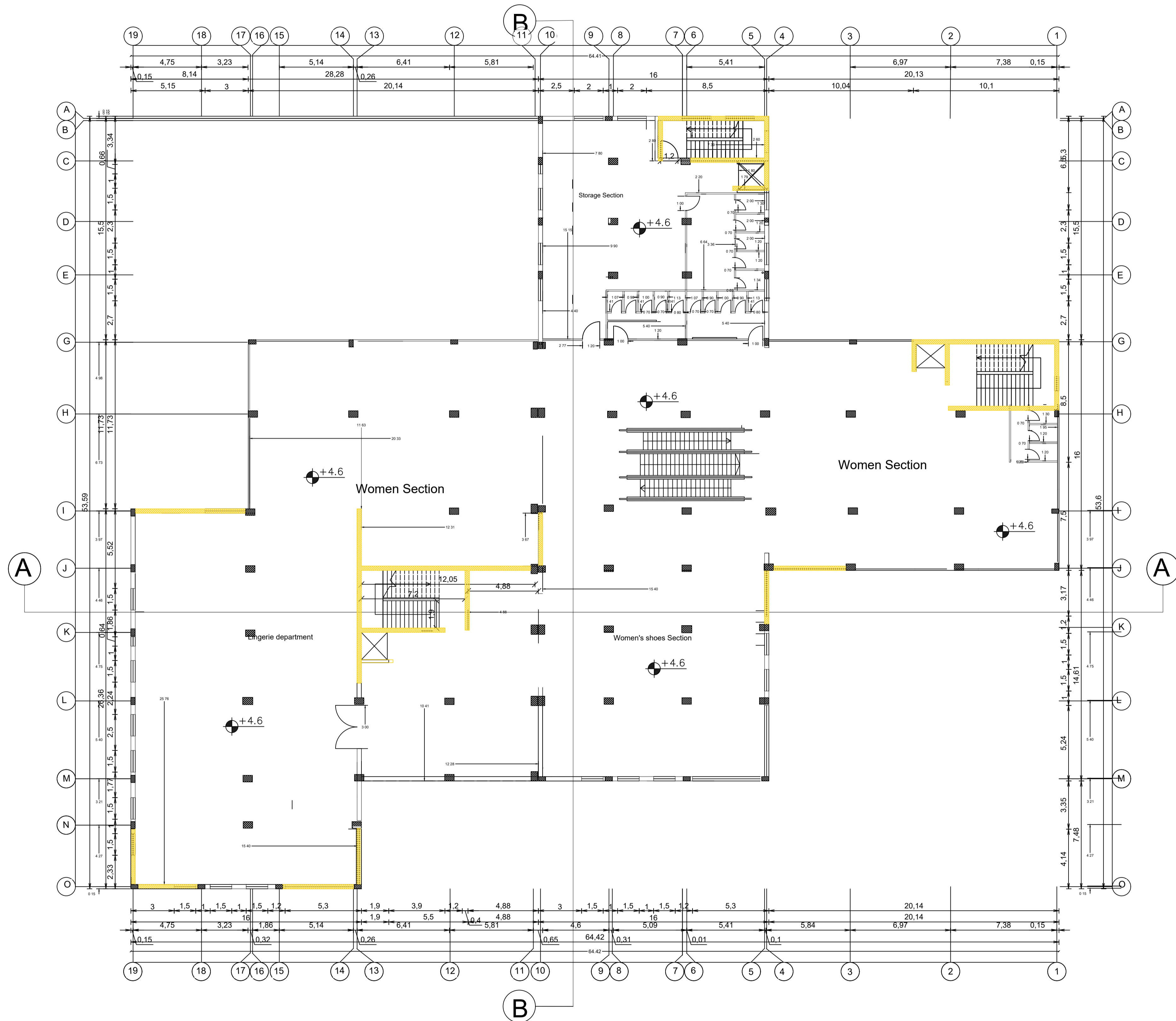
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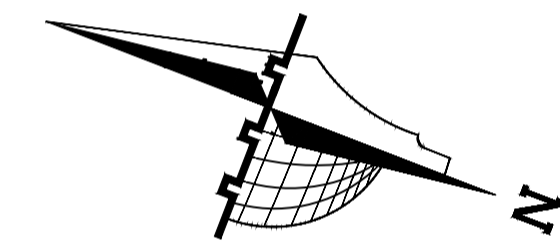
SCALE	No. of DRAW	DATE
1/200	A6	04/6/2024





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**Legend :**

- Stone
- R.Concrete
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- isolating materials
- Gravel
- Wood
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- BAKLAVA TILES
- GRASS

DRAWING TITLE :

1 Floor Dim Plan

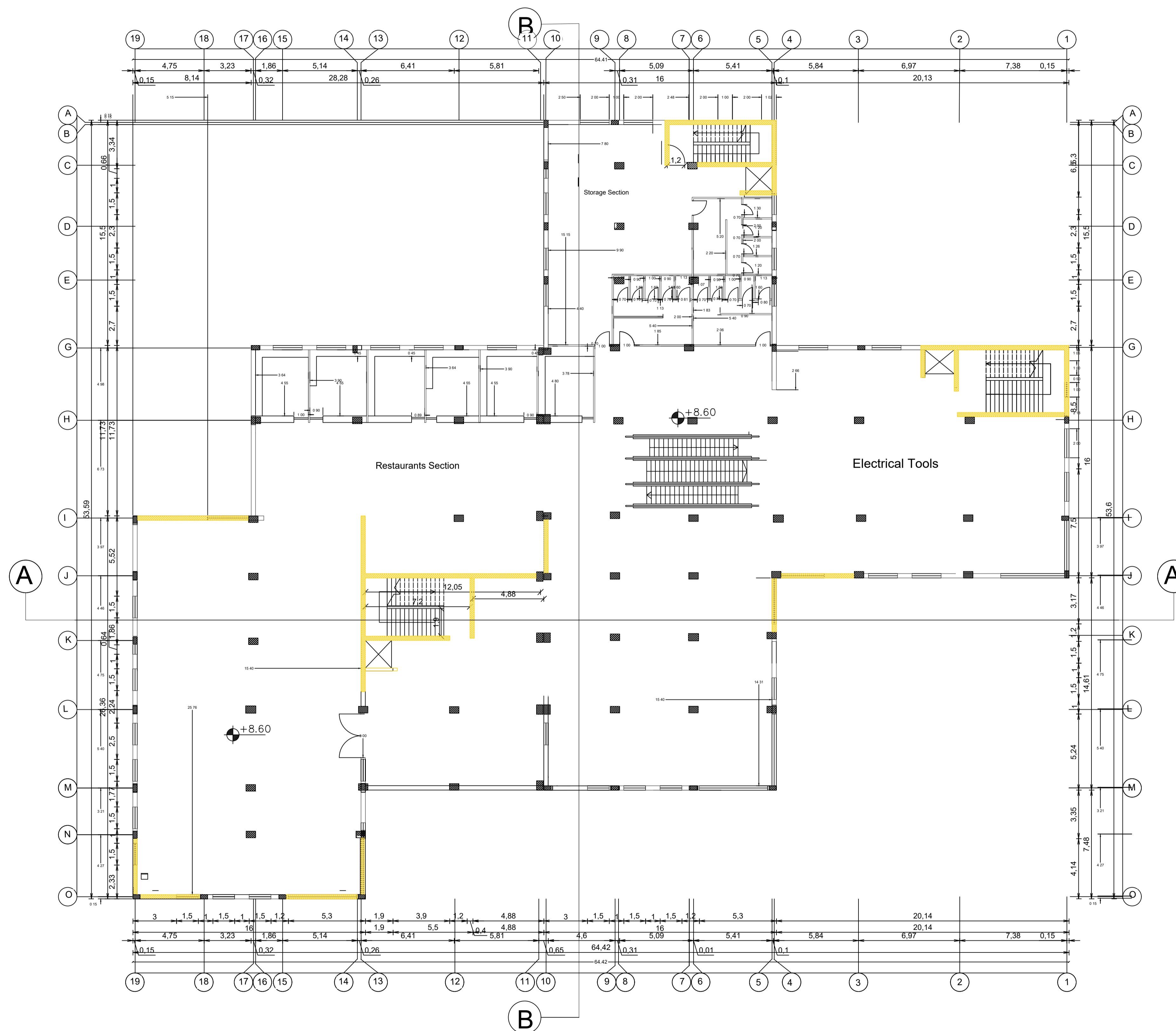
Supervisor

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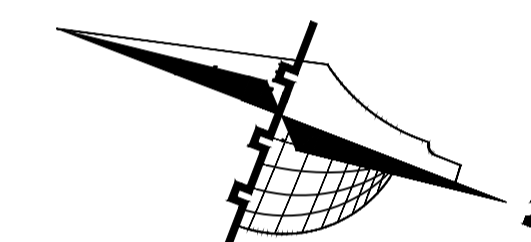
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1/200	A7	04/6/2024



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**Legend :**

- Stone
- Gravel
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- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- Isolating materials
- GRASS

DRAWING TITLE :

2 Floor Dim Plan

Supervisor

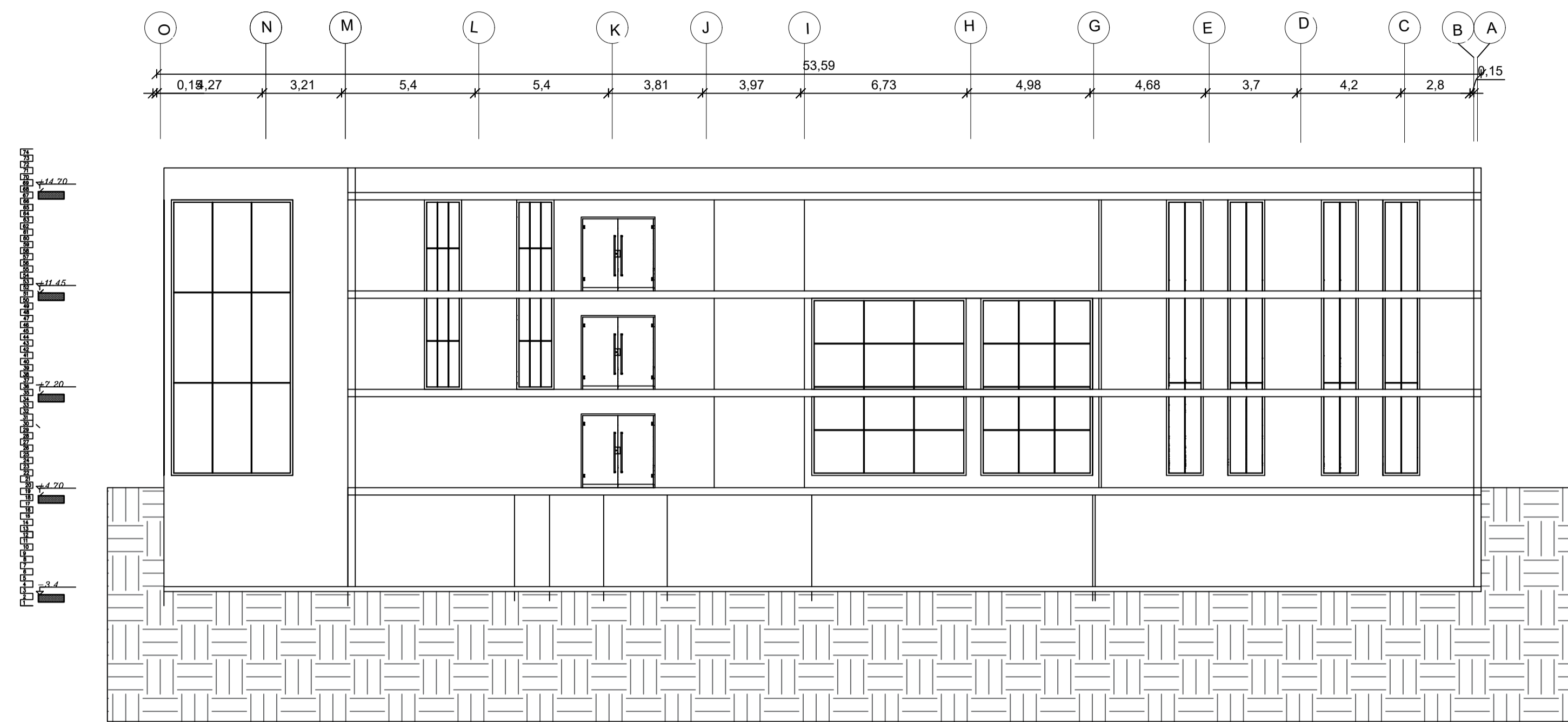
Dr. Nafeth  
 Naesr aldeen

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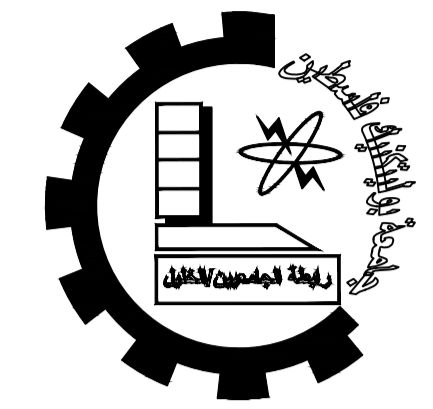
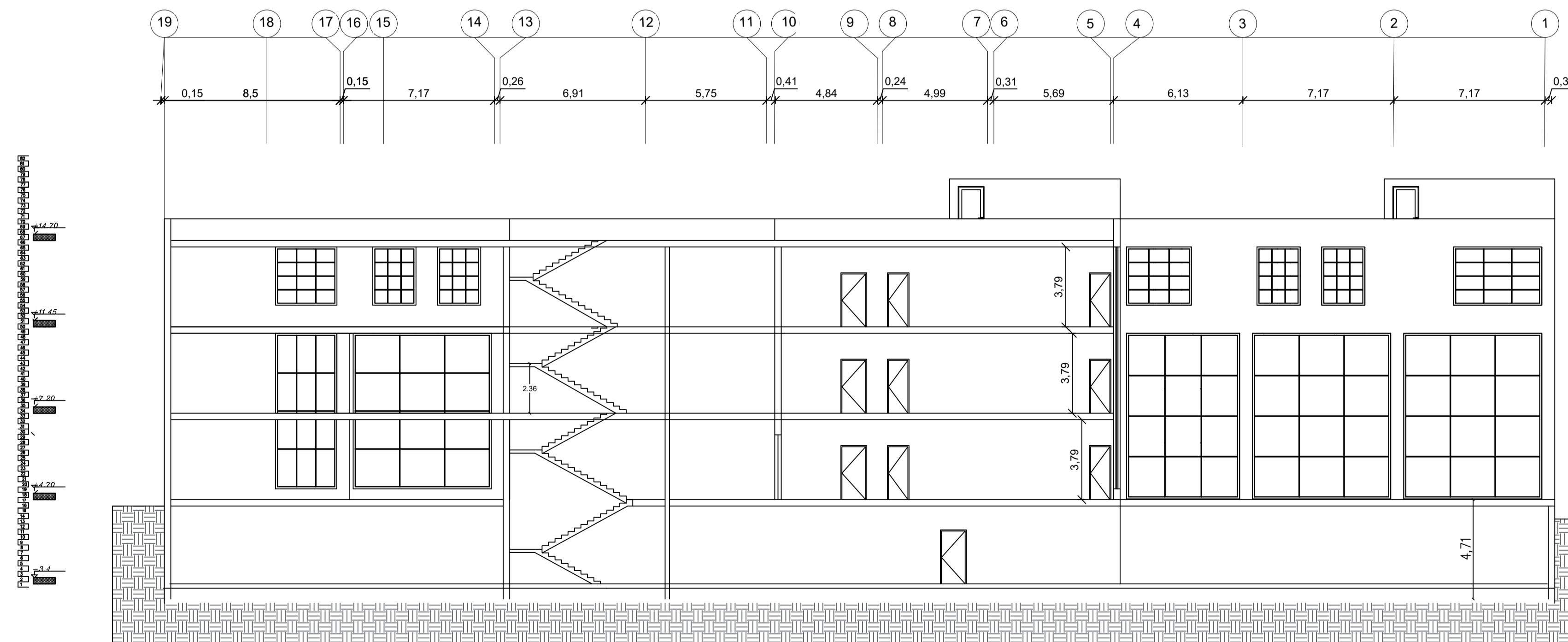
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 Ahmad Hajaj

SCALE	No. of DRAW	DATE
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SECTION b-b



SECTION A-A



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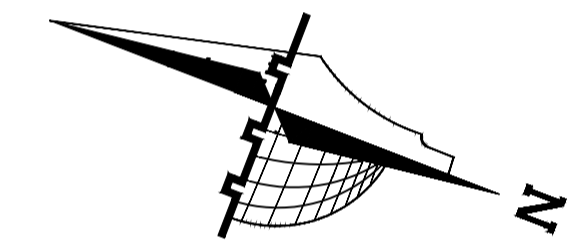
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Legend :

- |                      |                 |
|----------------------|-----------------|
| Stone                | Gravel          |
| R.Concrete           | Wood            |
| Concrete             | HEXAGONAL TILES |
| Hollow Block         | BAKLAVA TILES   |
| isolating materiales | GRASS           |

DRAWING TITLE :

SECTION

Supervisor

Dr. Nafeth  
Naesr aldeen

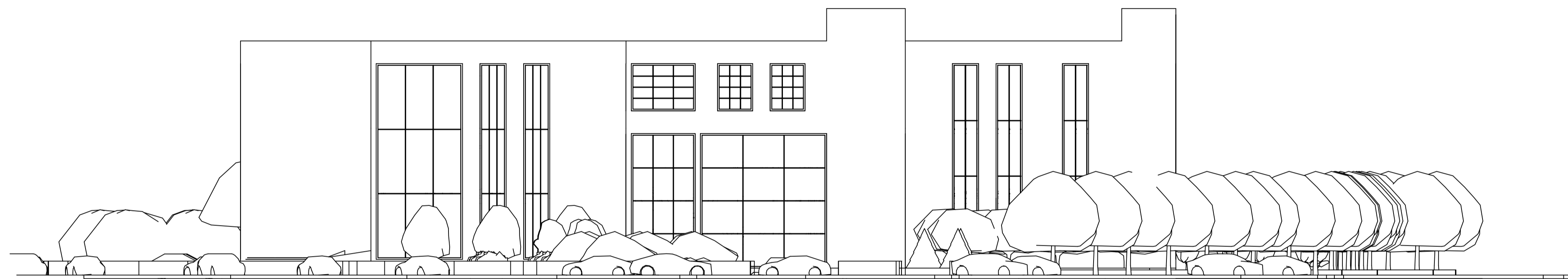
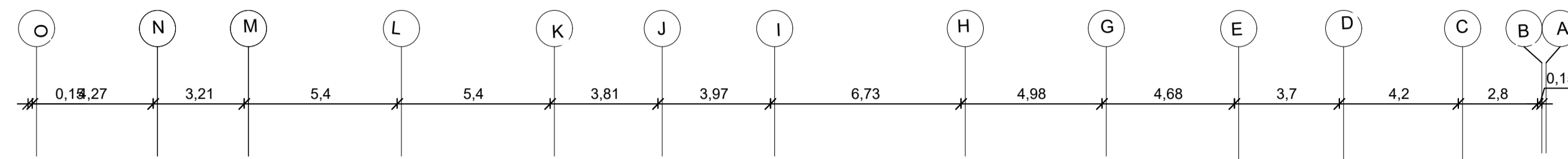
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Ahmad Hajaj

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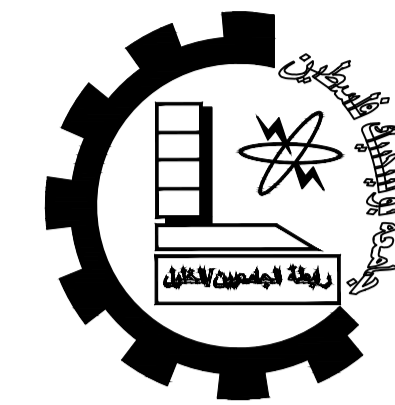
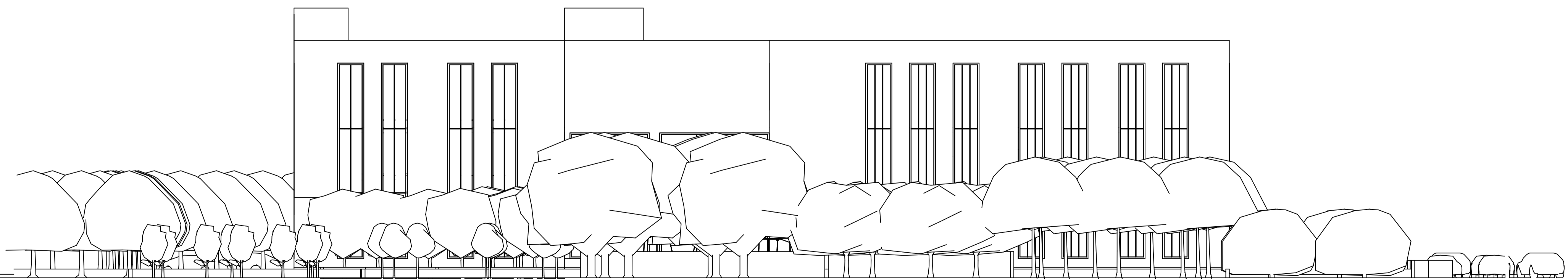
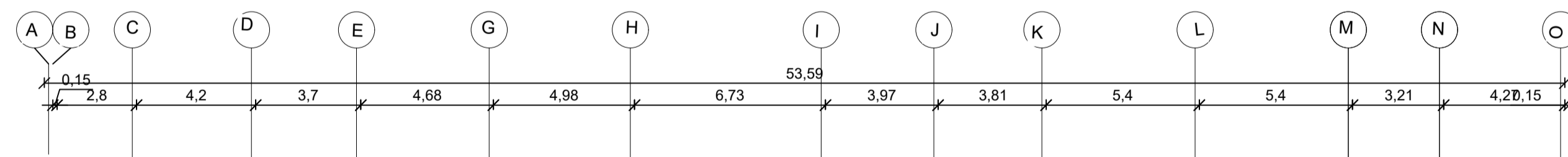
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SCALE: 1/100



# SOUTH ELEVATION

SCALE: 1/100



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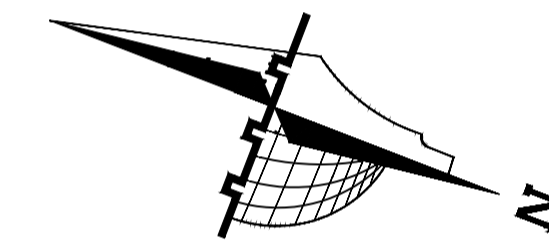
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*Panorama Mall*



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
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- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

ELEVATION

Supervisor

*Dr. Nafeth Naesr aldeen*

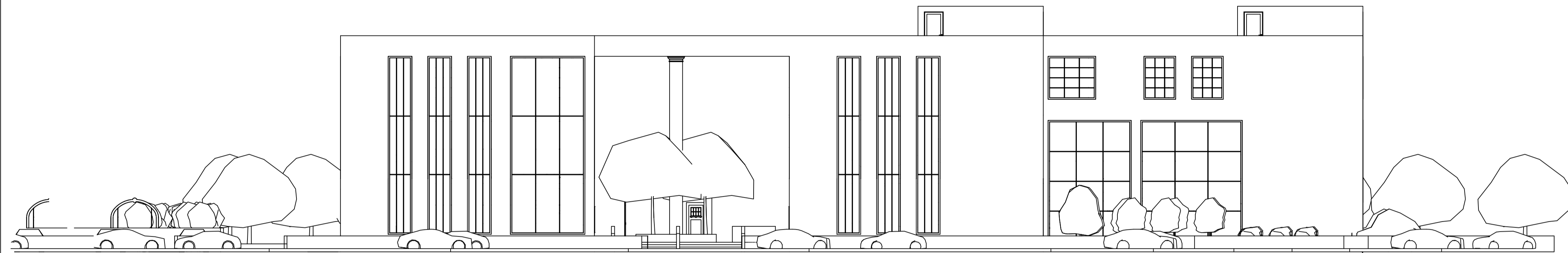
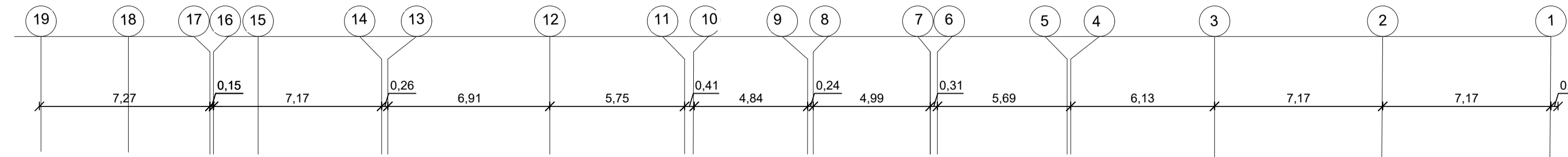
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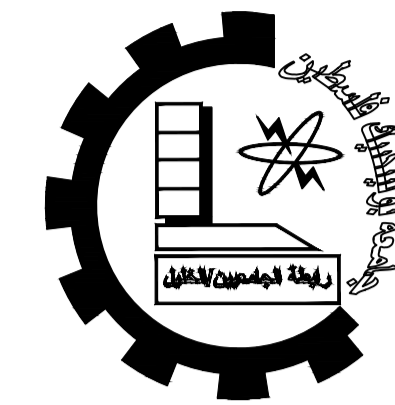
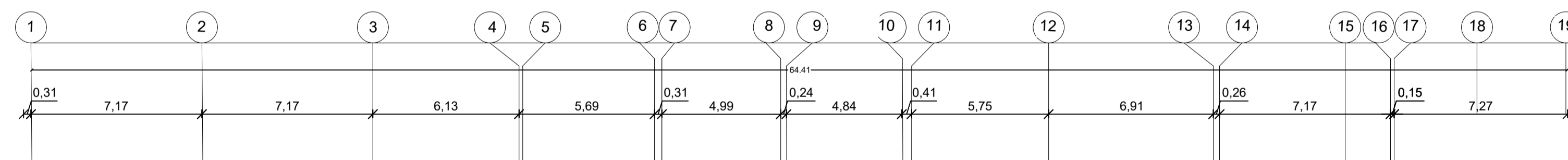
# EAST ELEVATION

SCALE: 1/100



# WEST ELEVATION

SCALE: 1/100



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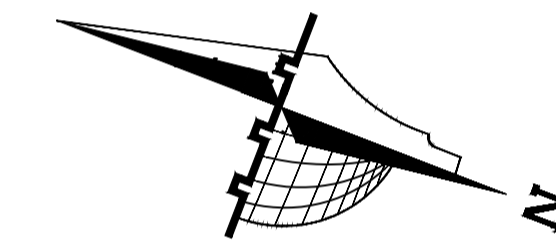
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	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materials		GRASS

DRAWING TITLE :

**ELEVATION**

Supervisor

*Dr. Nafeth Naesr aldeen*

Done by :

*Hisham Shindy  
Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/200	A11	04/6/2024

## Structural Design Criteria & Specifications & Construction Requirements

### GENERAL NOTES

#### 1. CODE OF PRACTICE

Detailing and workmanship shall be according to ACI 318-16, and the technical specifications provided.  
Approved equivalent international codes shall be accepted.  
Design for concrete done according to ACI 318-16  
ASCE/SEI 7-16 For the definition of lateral Seismic Loading.

#### 2. DIMENSIONS

- a) GRAVITY LOADS ESTIMATION ARE IN ACCORDANCE OF JORDAN
- b) UNLESS OTHERWISE INDICATED ON DRAWINGS ELEVATIONS ARE IN METERS, DISTANCES AND DIMENSIONS IN m., REINFORCEMENT BAR SIZES IN mm.

#### 3. DRAWINGS

- 1- Structural drawings shall be read in conjunction with Architectural.
- 2- Sleeves and openings smaller than 200x200mm are not shown on the Structural drawings. For required openings refer to Architectural, Mechanical and Electrical drawings.
- 3- Contractor shall prepare working drawings and bar bending schedules for reinforcement in a format agreed with the engineer.
- 4- Contractor shall supply detailed drawings and calculations for all support and temporary works and propping systems as applicable and all other relevant information subject to the Engineer's approval prior to commencement of construction.

#### 4. REINFORCEMENT

- 1- Reinforcement shall be deformed high strength steel bars of characteristic strength of 420 Mpa complying with ASTM standards or equivalent for diameters 10mm & above.
- 2- Reinforcement shall be deformed steel bars of characteristic strength of 420 MPa complying with ASTM standards Or equivalent for diameters 8mm & above.
- 3- Contractor to provide bar bending schedule.
- 4- Where bar length is not specified, longest practicable bar length shall be employed with staggered lap splices. Lap length shall be 30 times bar diameter.

#### 5. REINFORCED CONCRETE

The following two types of reinforced concrete shall be employed:

B300 - Grade 300 for all reinforced concrete members except architectural fair faced concrete facades.  
Characteristic Strength as defined by a 150 mm cube at age of 28 days shall be:

B300 -  $30 \times 0.8 = 24$  MPa (Because it is rectangular section)  
Minimum cement content, per cubic meter, shall be:  
B300 - 300 kilograms

#### 6. PLAIN CONCRETE

The following type of plain concrete shall be employed:

B 200 - Grade 200 concrete of characteristic cubestrength equal to 16 MPa, minimum cement content of 200 kilograms per cubic metre, and a maximum water:cement ratio of 0.50 to be used for blinding concrete under foundations.

#### 7. AGGREGATES

Maximum aggregate size shall be 25 mm.

#### 8. FOUNDATIONS

- Contractor shall adhere strictly to the geotechnical report for this project. He shall be responsible to determine strata characteristics at the appropriate levels:
- Allowable Bearing capacity = 500 KN/m<sup>2</sup>.

#### 9. BACK Fill

All back fill material shall conform to specifications and shall be properly tested. No back filling is permitted around.

### GENERAL RULES

#### 1. NOTATION

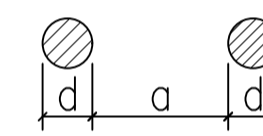
T.B=TOP BARS  
B.B=BOTTOM BARS  
S= SPACING.  
Ø or T = DIAMETER FOR STEEL BARS.  
@ or / = INDICATES THAT THE FOLLOWING NUMBER IS THE SPACING BETWEEN BARS.

#### 2. COVER

Clear concrete cover to reinforcement shall be :

20mm for ribs 40mm for beams 40mm for columns  
40mm for Beams, slabs and joists.

#### 3. Min. Bar Spacing



Unless otherwise shown below, sub-beam and cantilever beam shall be conformed

Bar spacing "a" shall be not less than the greatest in the following three cases:

- 1) 25 mm
- 2) 1.5 d
- 3) 1.25 times the max. size of coarse aggregate.

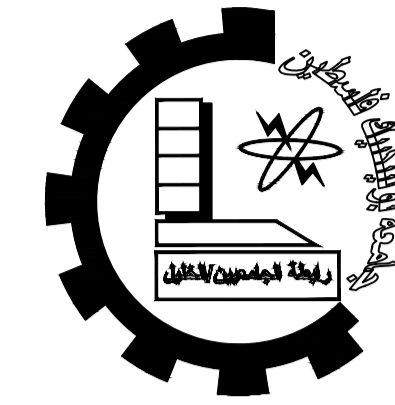
#### Standard Hook Details and Bar Bends

End position

Hook details	Secondary Steel	Main Steel	Application
	D	4d	5d
	1e	12d	14d
			16mm dia. bar and larger
	D	4d	--
	1e	12d	--
			13mm dia. bar and smaller
	D	4d	--
	1e	12d	--
			T- and L-shape stirrups
	D	4d	--
	1e	8d	--
	1'e	10d	--
			90° 135° Spacer bar

Intermediate position

Hook details	Secondary Steel
	D
	3d and over
	D
	4d and over
or	
	D
	5d and over
	D
	8d



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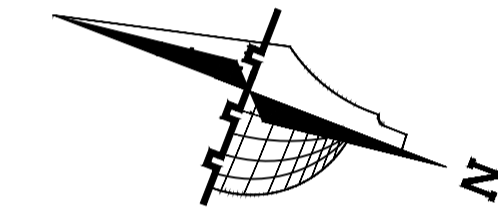
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#### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materials		GRASS

DRAWING TITLE :

General Notes

Supervisor

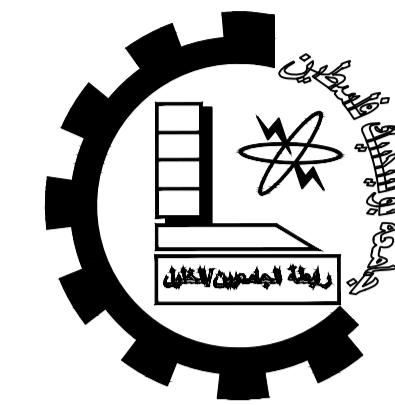
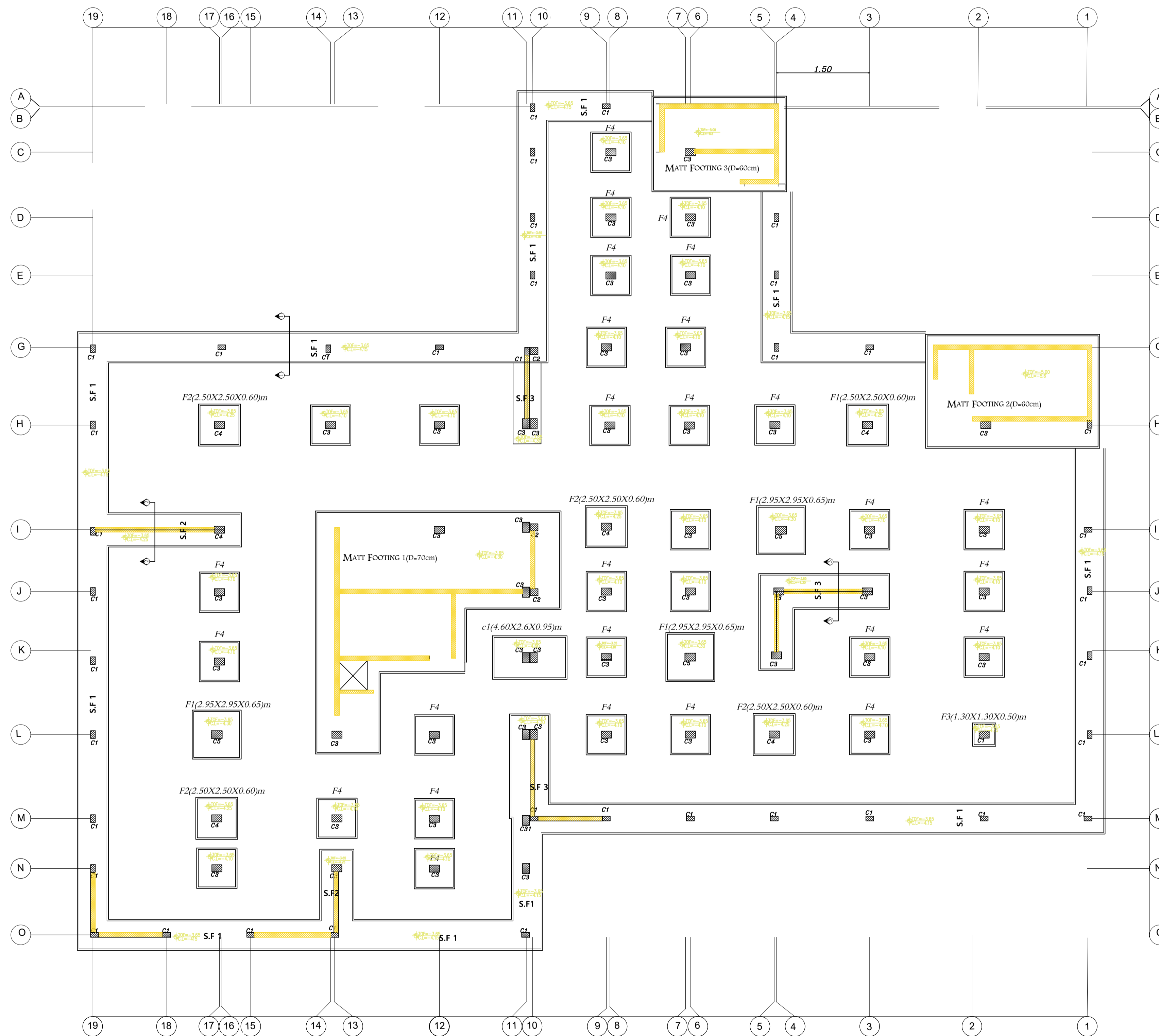
*Dr. Nafeth Naesr aldeen*

Done by :

*Hisham Shindy  
Ahmad Hajaj*

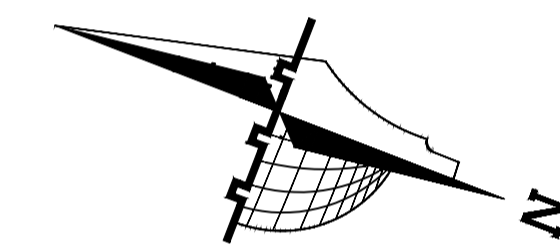
SCALE	No. of DRAW	DATE
1/100	S00	4/06/2024

# Foundations Plan



Palestine Polytechnic University  
 College of Engineering  
 Civil Engineering Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- Isolating materials
- GRASS

DRAWING TITLE :

Foundations Plan

Supervisor

Dr. Nafeth  
 Naesr aldeen

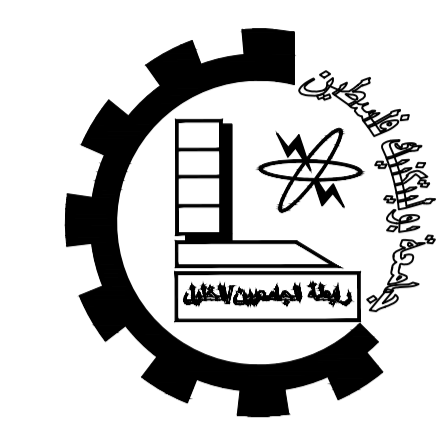
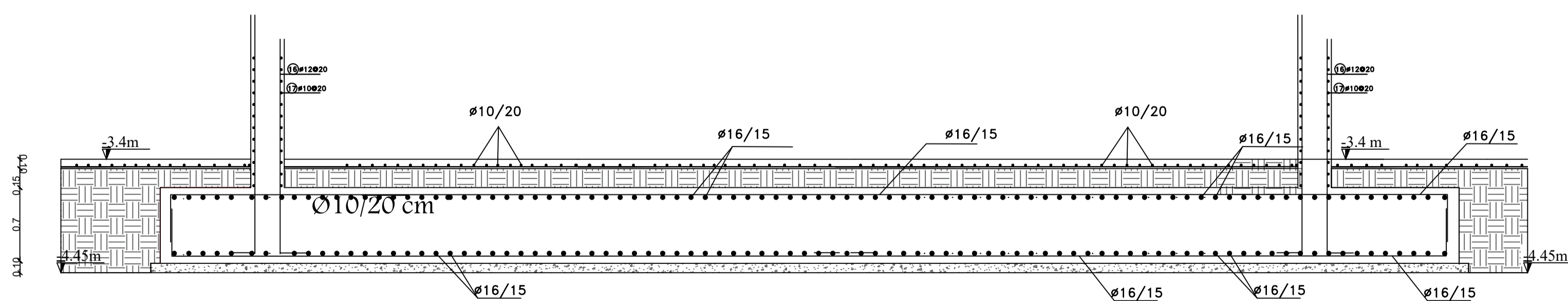
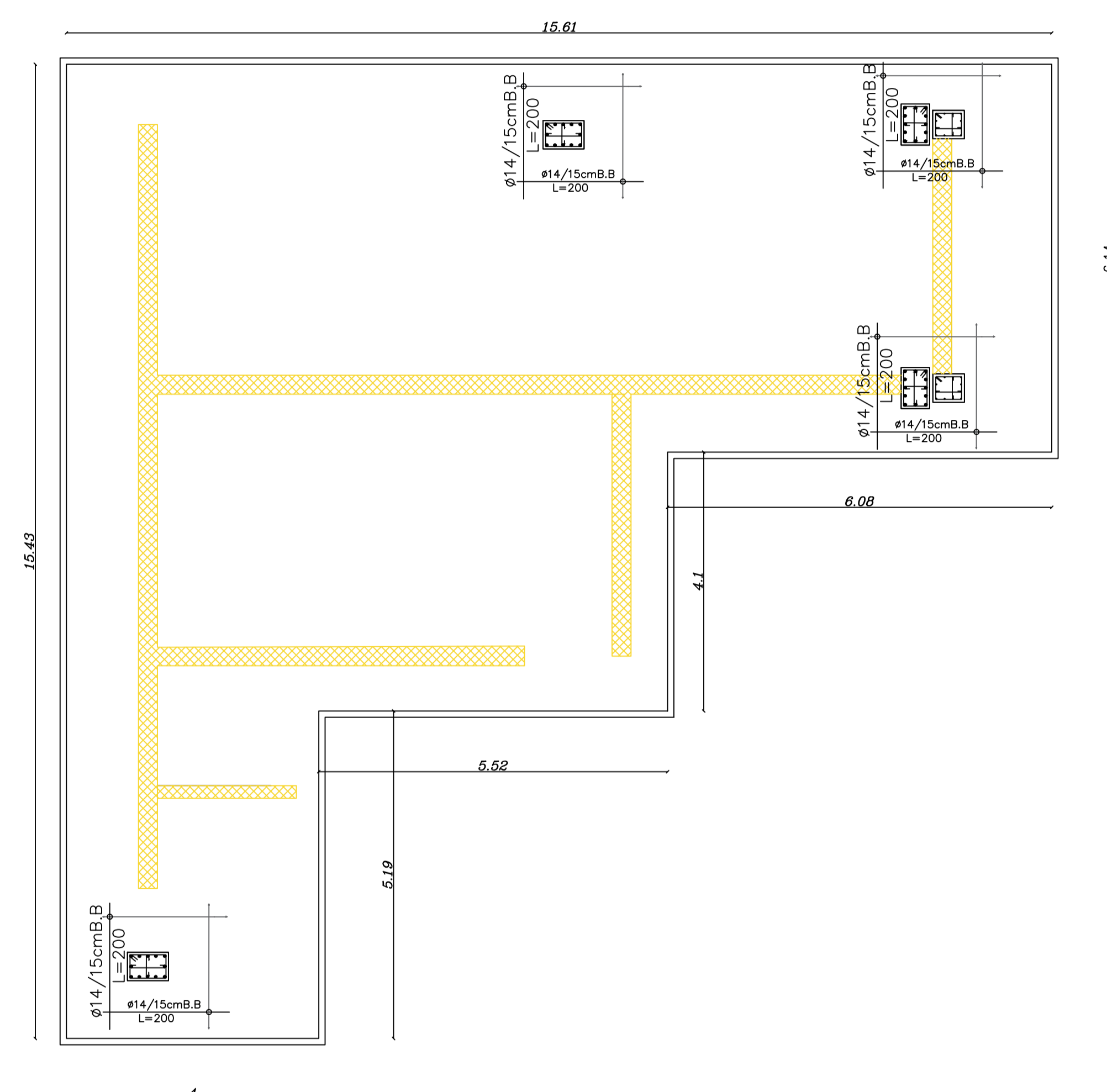
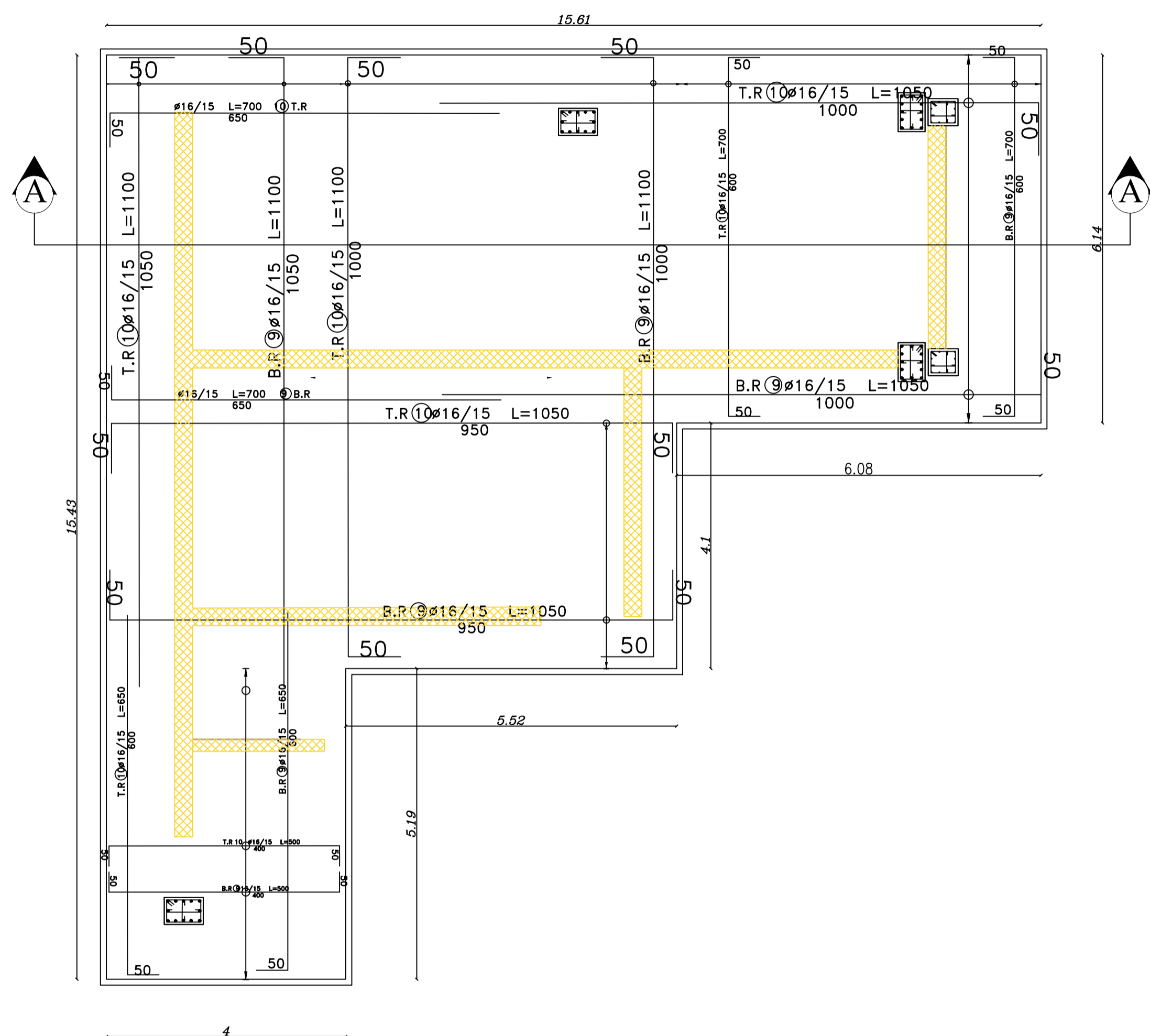
Done by :

Hisham Shindy  
 Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S1	04/6/2024

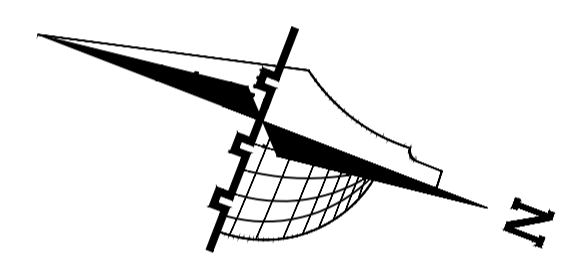
# MATT FOOTING 1

# Additional Reinforcement for matt1



Palestine Polytechnic University  
 College of Engineering  
 Civil Engineering Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



- Legend :**
- Stone
  - R.Concrete
  - Concrete
  - Hollow Block
  - isolating materiales
  - Gravel
  - Wood
  - HEXAGONAL TILES
  - BAKLAVA TILES
  - GRASS

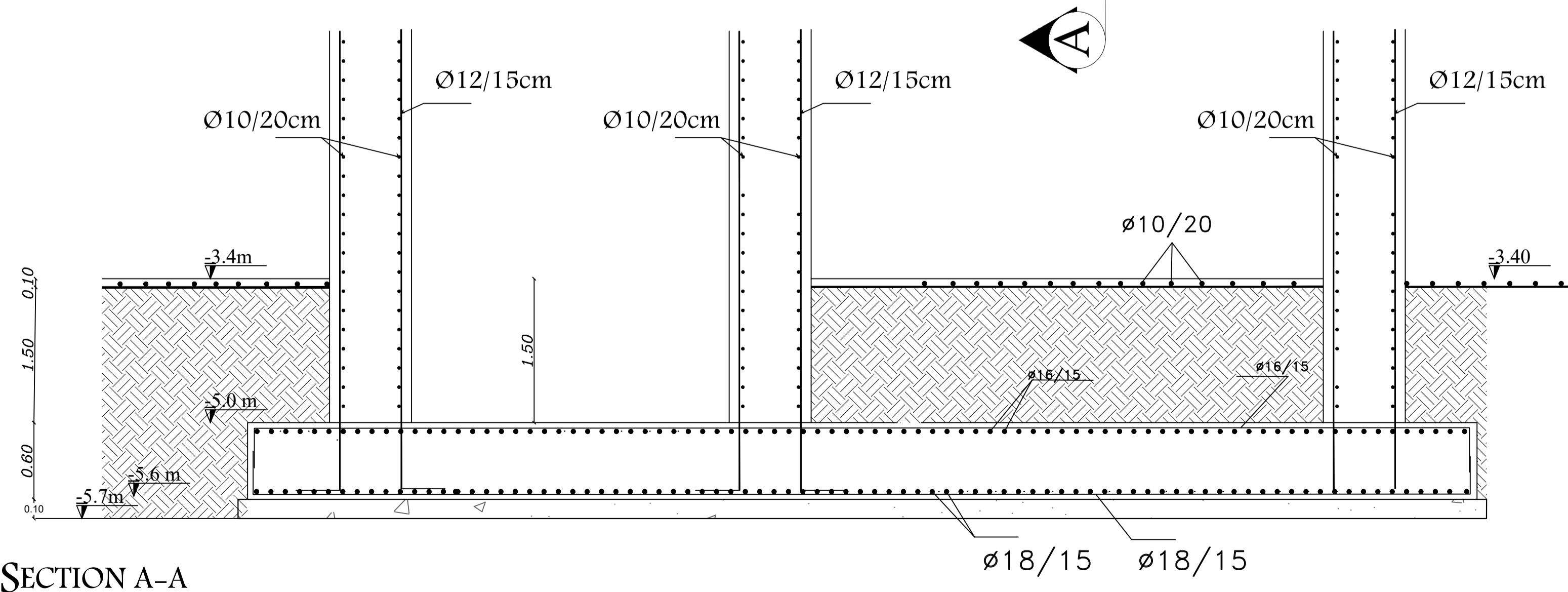
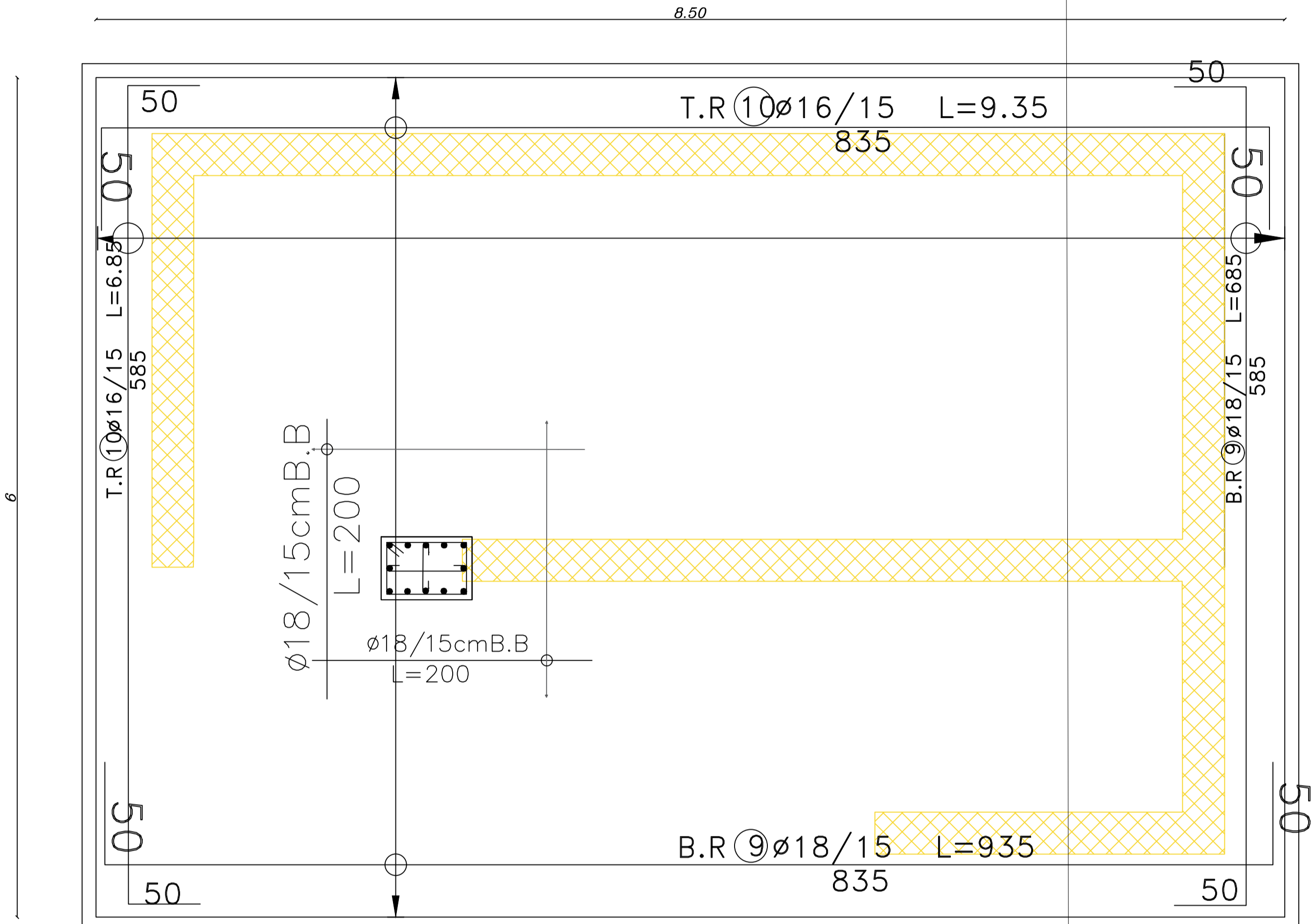
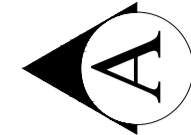
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**MATT FOOTING 1**

Supervisor  
*Dr. Nafeth Naesr aldeen*

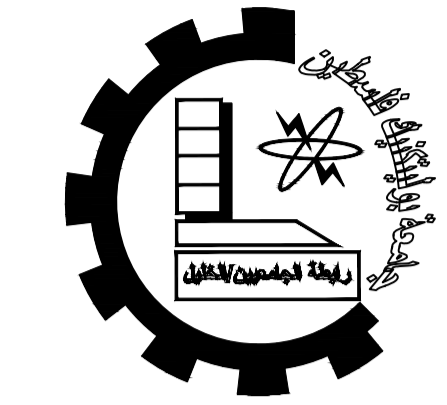
Done by :  
*Hisham Shindy  
 Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/200	S2	04/6/2024

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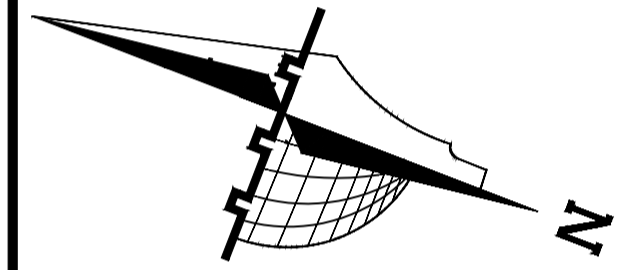


SECTION A-A



Palestine Polytechnic University  
 Engineering College  
 Civil Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



**Legend :**

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

MATT FOOTING 3

Supervisor

Dr. Nafeth Naesr aldeen

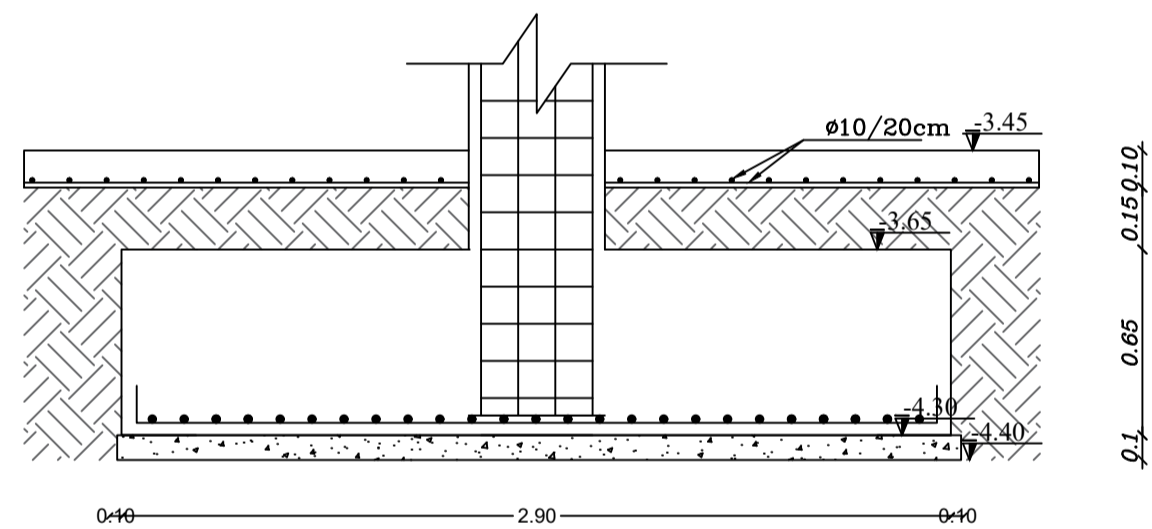
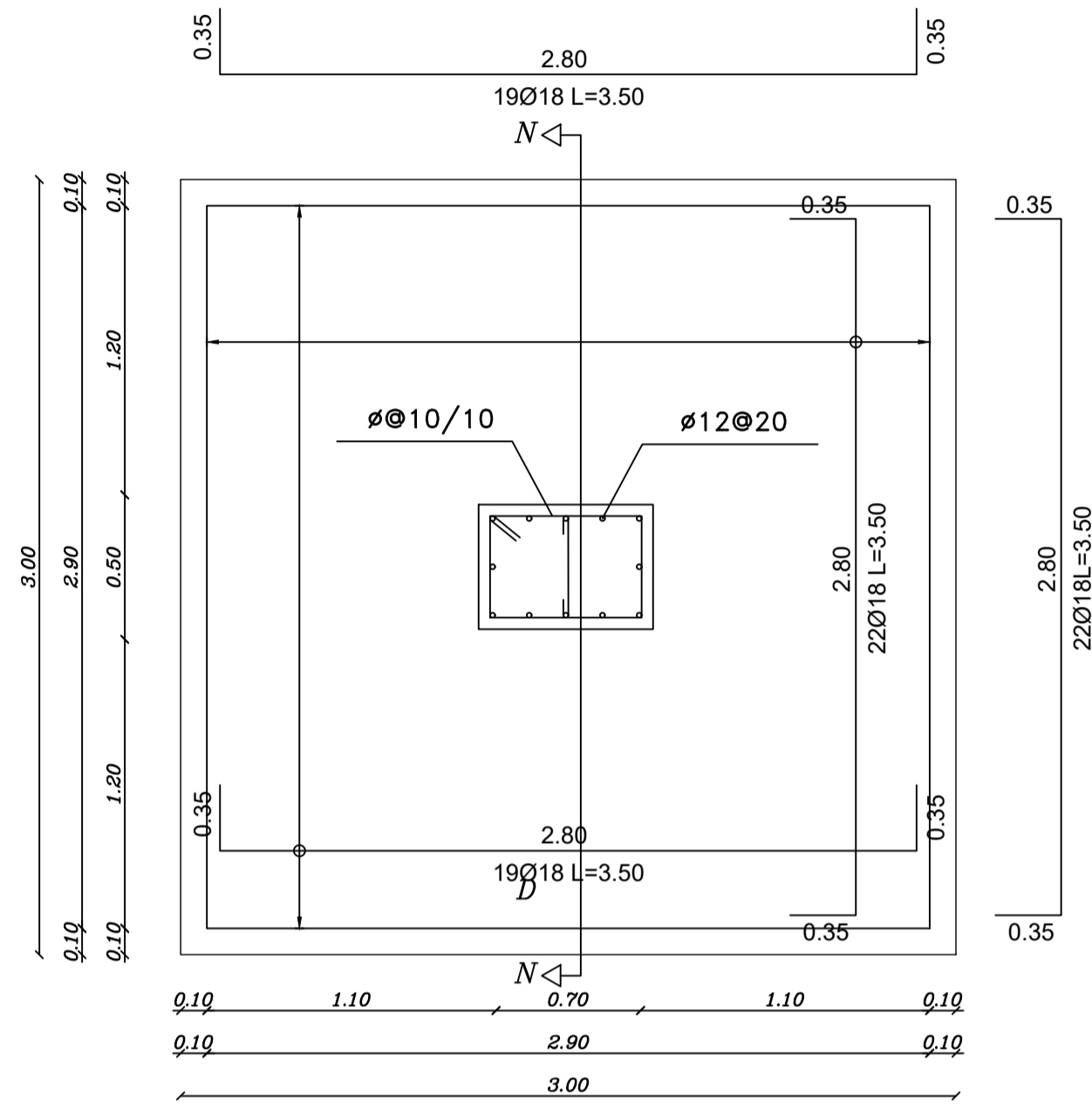
Done by :

Hisham Shindy  
 Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S3	04/6/2024

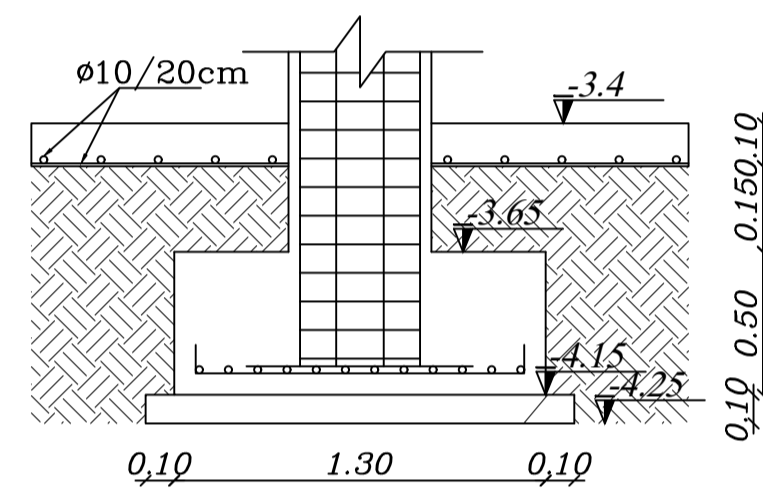
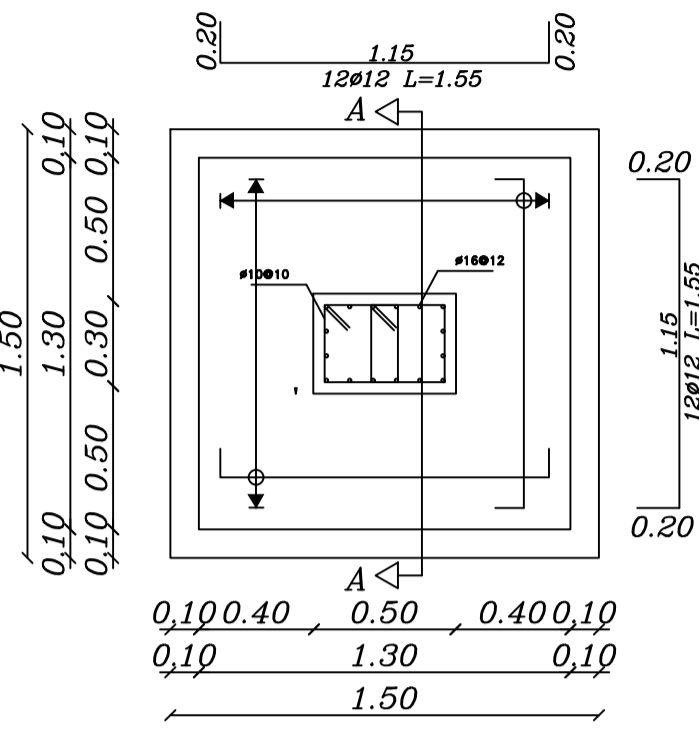


F1(2.95X2.95X0.65)m  
SCALE 1:20



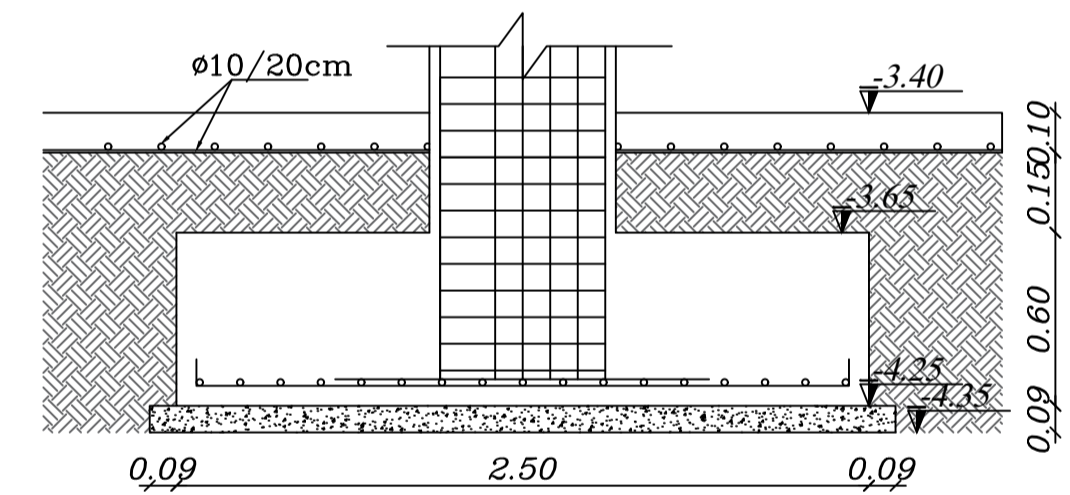
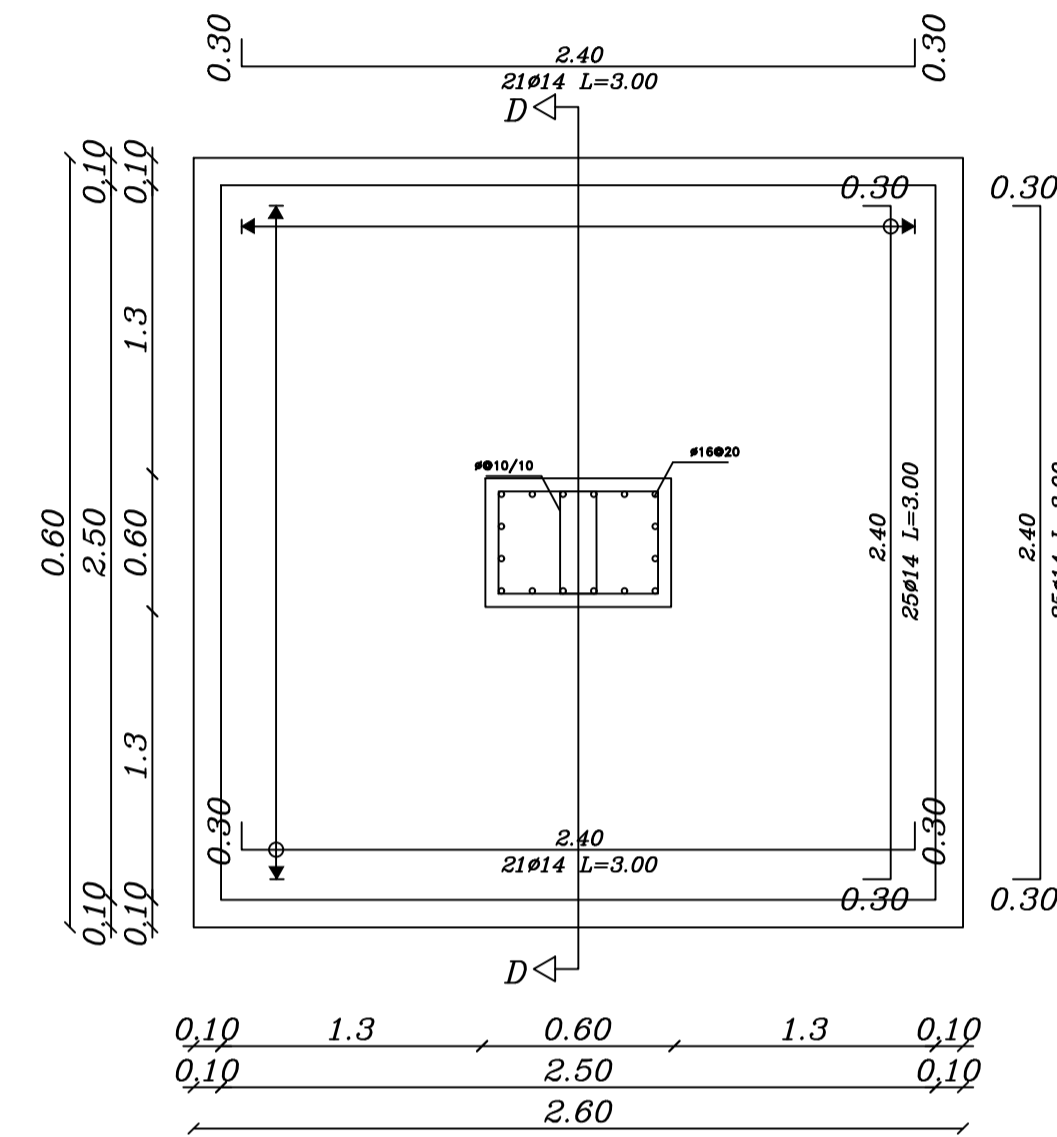
Section N-N

F3(1.30X1.30X0.50)m  
SCALE 1:20



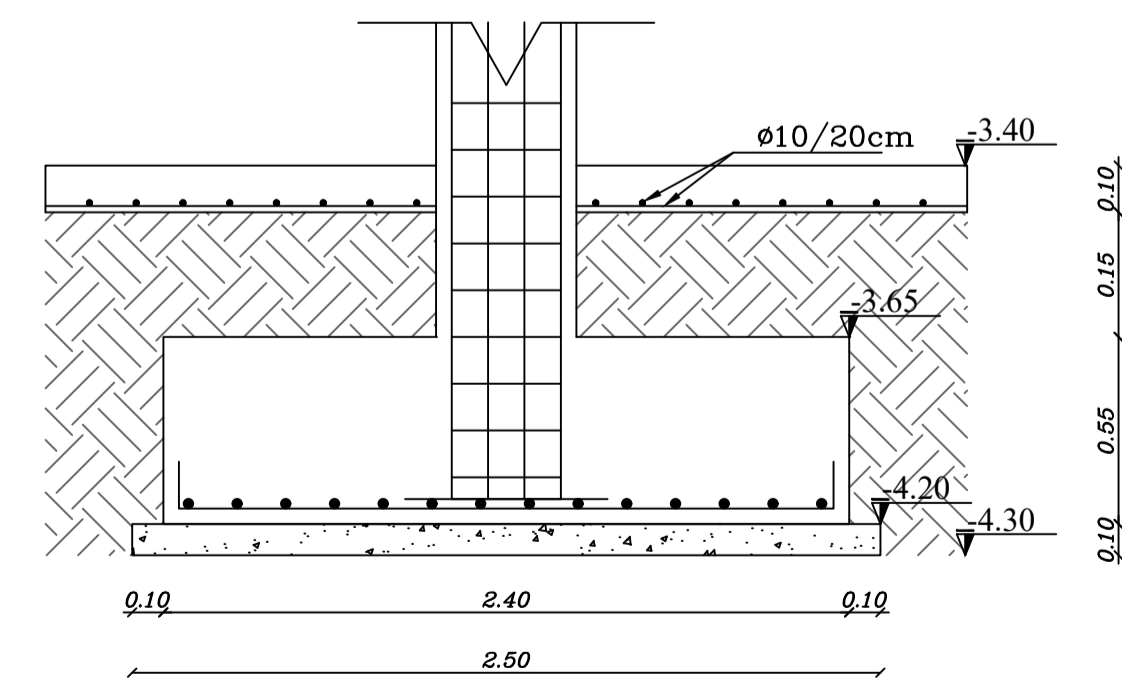
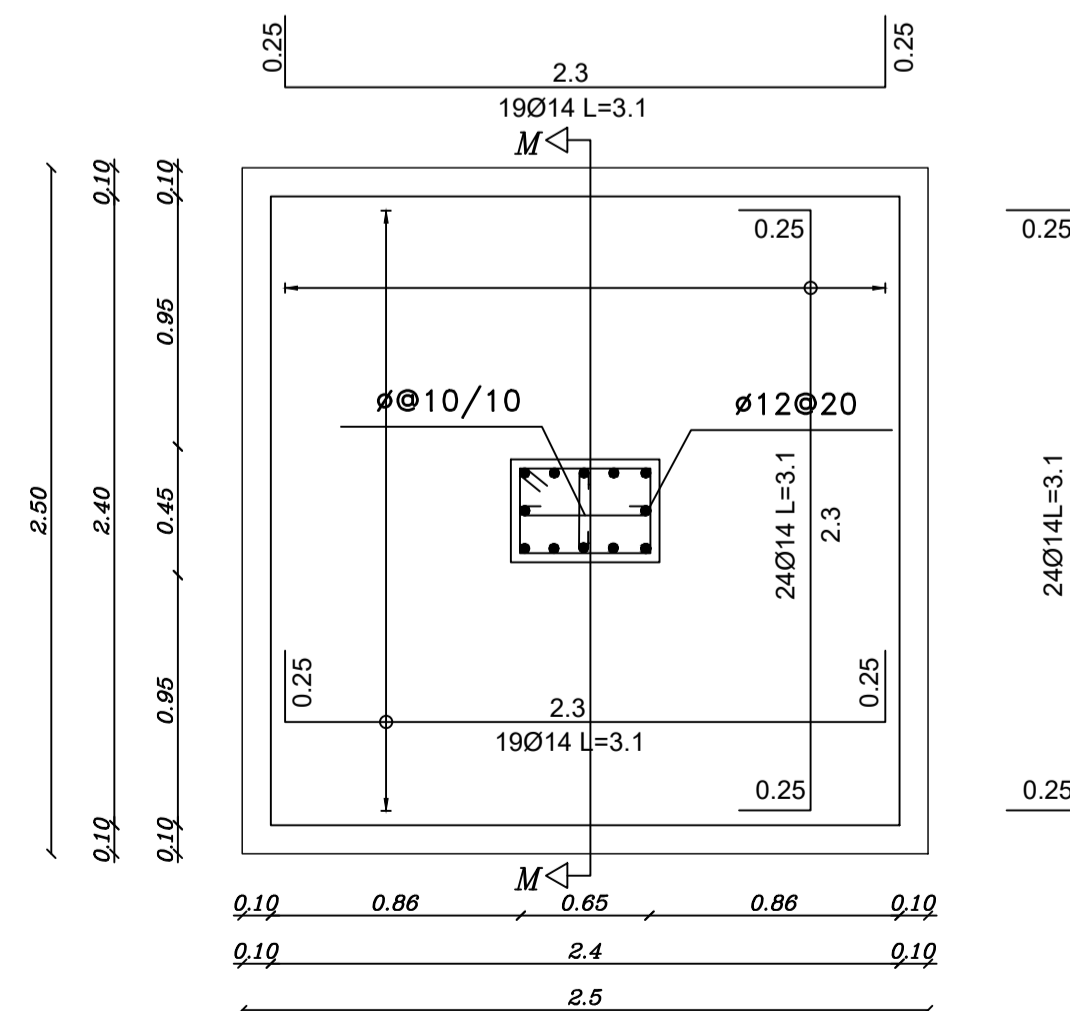
Section A-A

F2(2.50X2.50X0.60)m  
SCALE 1:20

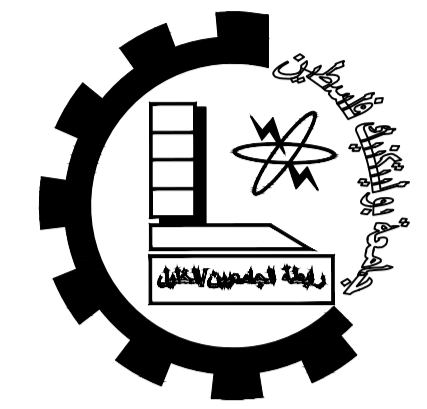


Section D-D

F4(2.40X2.40X0.55)m  
SCALE 1:20



Section M-M



Palestine Polytechnic University

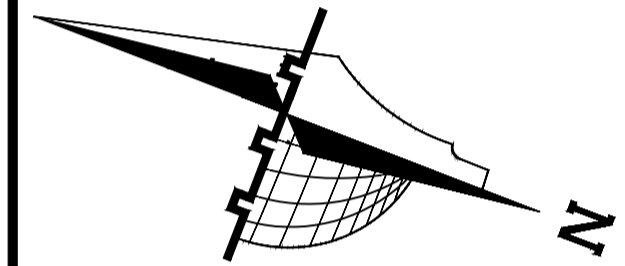
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

FOOTING

Supervisor

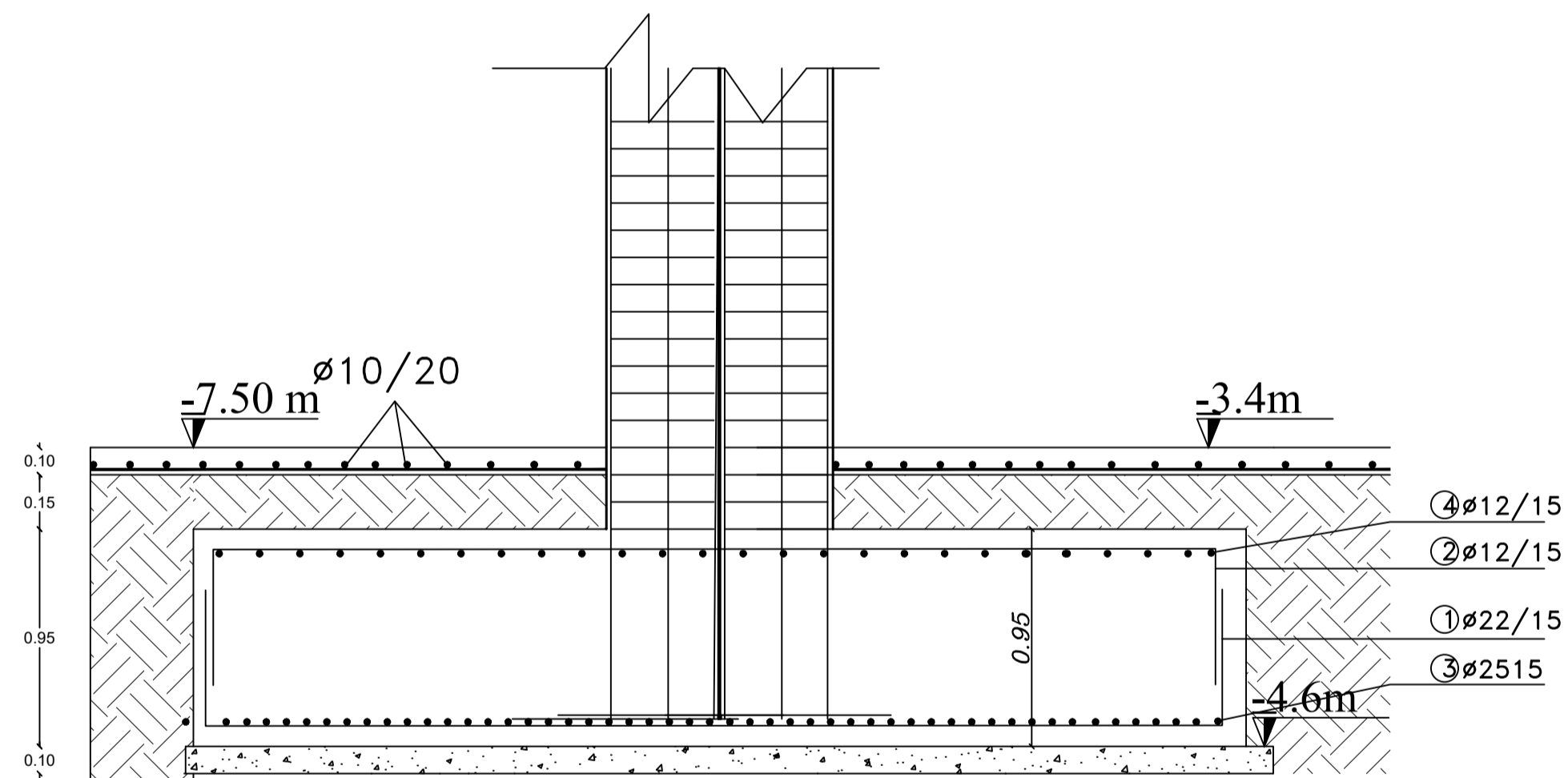
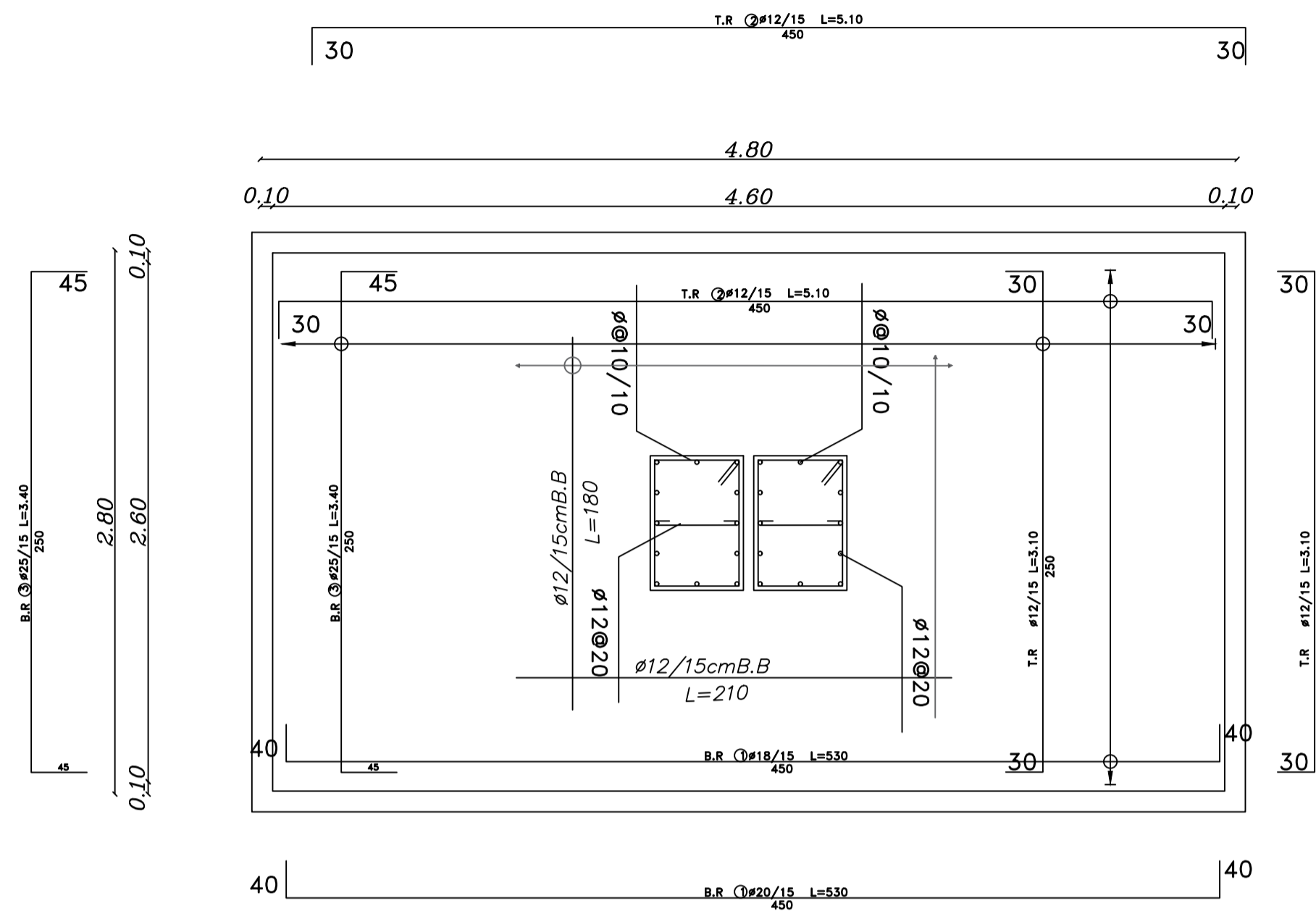
Dr. Nafeth  
Naesr aldeen

Done by :

Hisham Shindy  
Ahmad Hajaj

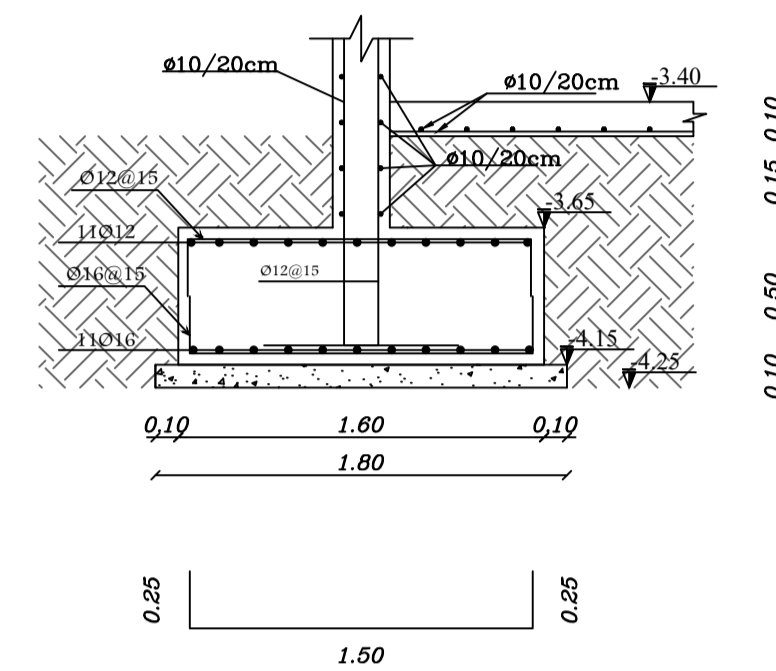
SCALE	No. of DRAW	DATE
1/100	S5	04/6/2024

**COMBINED FOOTING -  
C. F1  
(4.6 × 2.6 × 0.95)m**

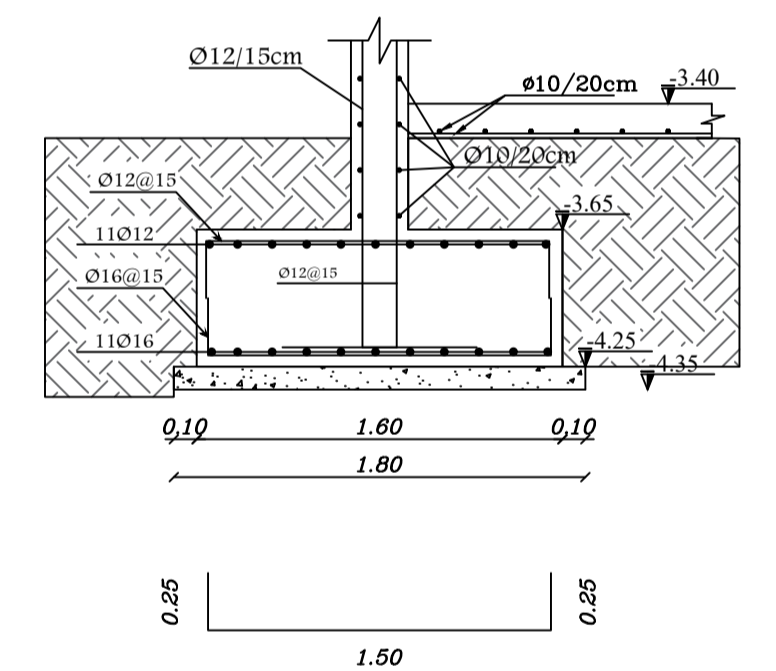


Section M-M

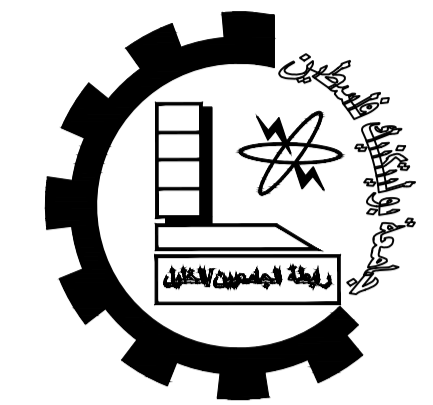
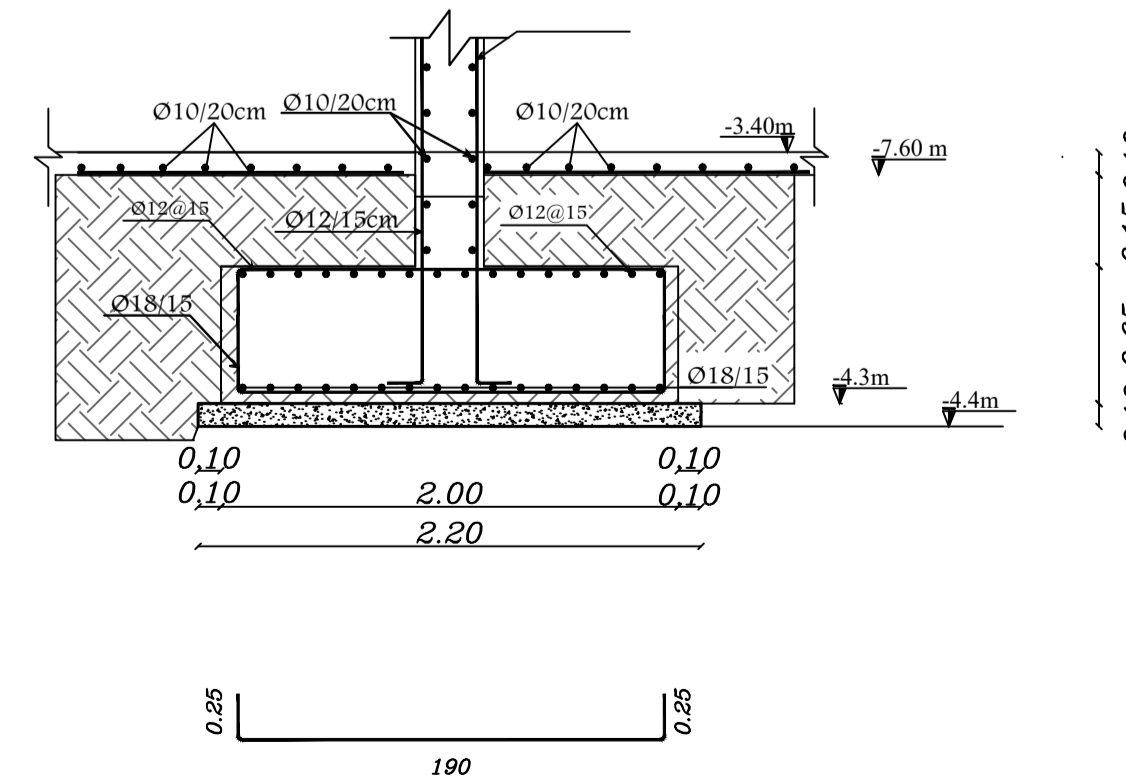
**Strip Footing 1  
Section 1-1  
SCALE 1:25**



**Strip Footing 2  
Section 2-2  
SCALE 1:25**



**Strip Footing 3  
Section 3-3  
SCALE 1:25**



Palestine Polytechnic University

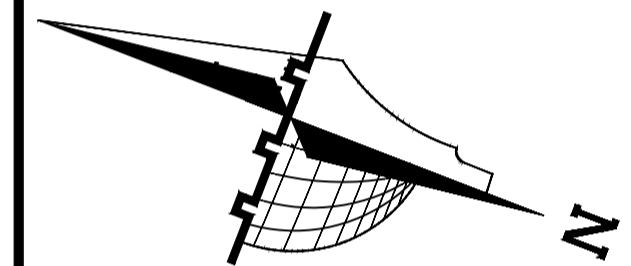
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



**Legend :**

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

**FOOTING**

Supervisor

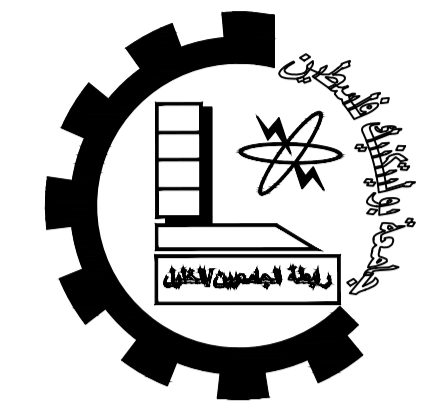
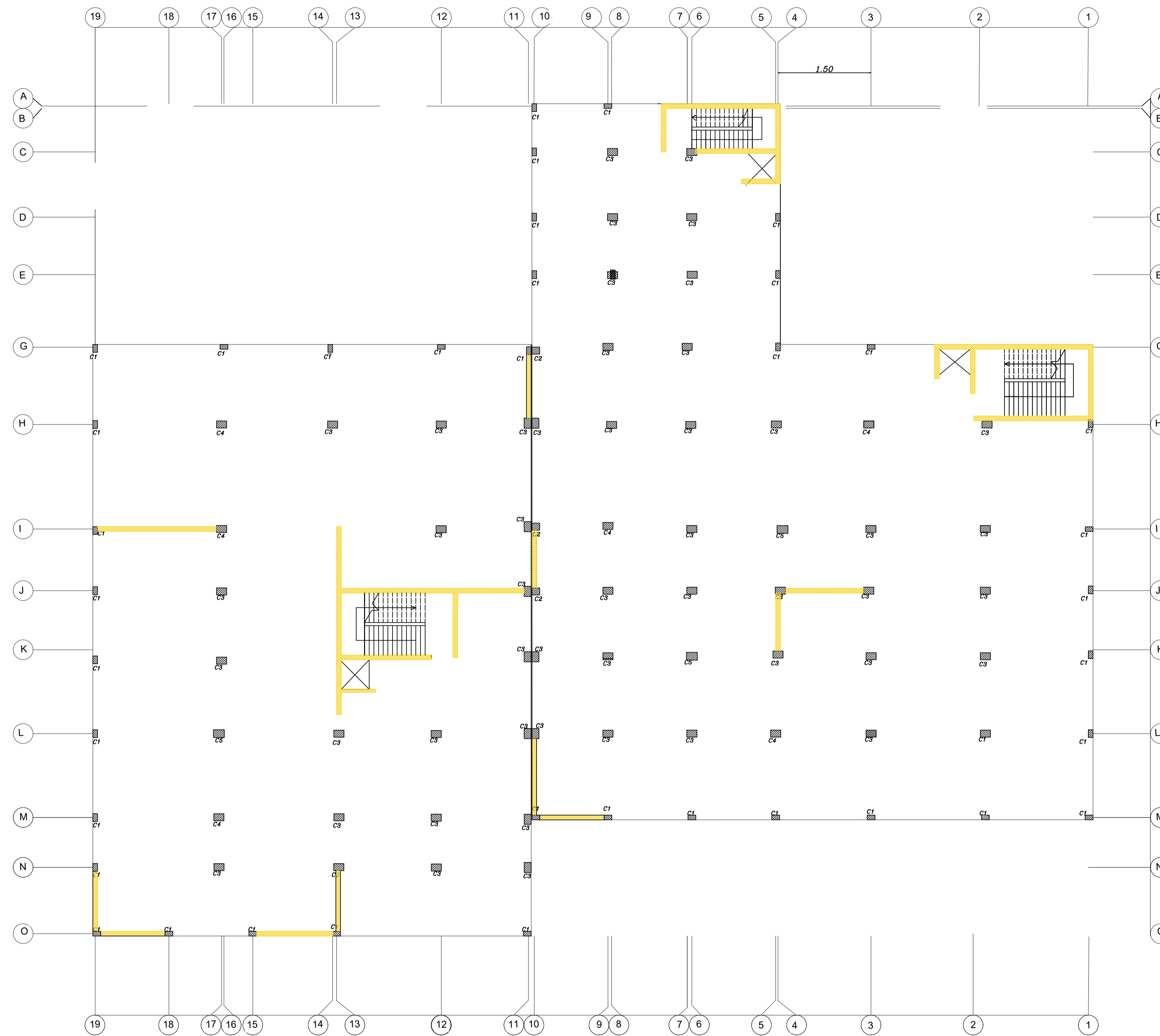
*Dr. Nafeth  
Naesr aldeen*

Done by :

*Hisham Shindy  
Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/100	S6	04/6/2024

# COLUMN'S PLAN



Palestine Polytechnic University

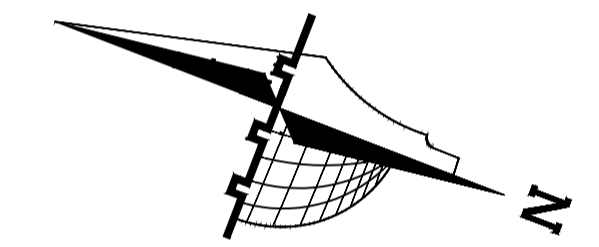
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

	Stone		Gravel
	R.Concrete		Wood
	Concrete		HEXAGONAL TILES
	Hollow Block		BAKLAVA TILES
	isolating materials		GRASS

DRAWING TITLE :

COLUMN'S PLAN

Supervisor

Dr. Nafeth  
Naesr aldeen

Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S7	04/6/2024

# Column's Design Sections

## Scale 1/20



Palestine Polytechnic University

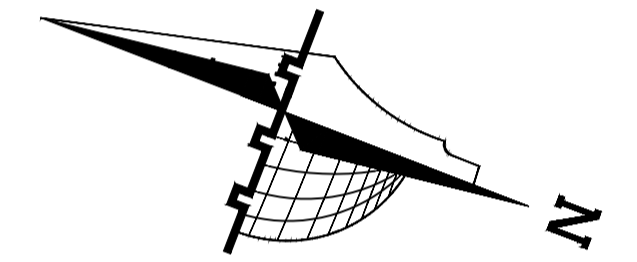
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

### Panorama Mall



#### Legend :

- |                      |                 |
|----------------------|-----------------|
| Stone                | Gravel          |
| R.Concrete           | Wood            |
| Concrete             | HEXAGONAL TILES |
| Hollow Block         | BAKLAVA TILES   |
| isolating materiales | GRASS           |

DRAWING TITLE :

Column's Detailings

Supervisor:

*Dr. Nafeth Naesr aldeen*

Done by :

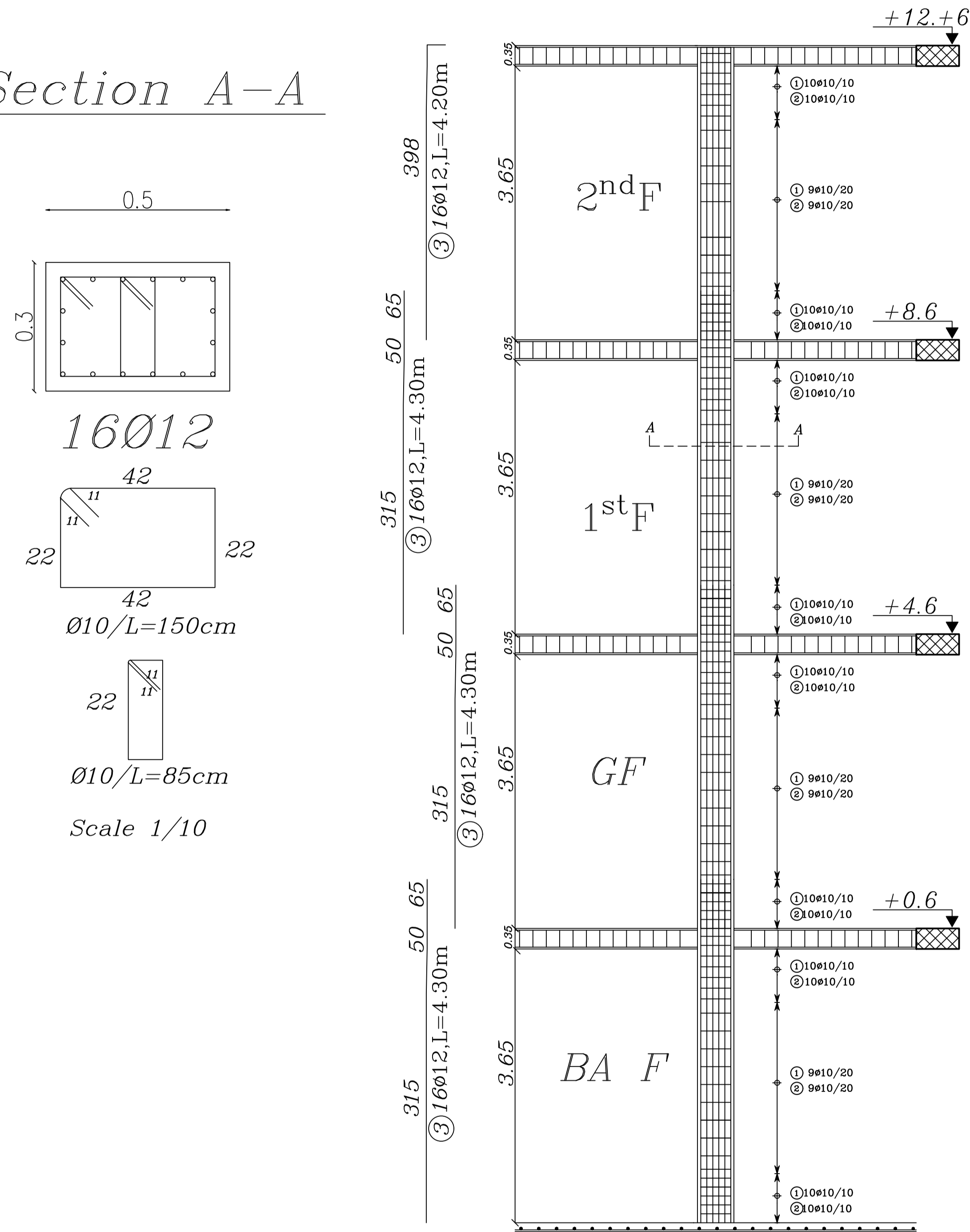
*Hisham Shindy  
Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/100	S8	04/6/2024

Groups	Floor				
	C1	C2	C3	C4	C5
<i>BF</i>	 0.5 0.3 16Ø12 DL=500KN/LL=250KN	 0.5 0.45 12Ø16 DL=750KN/LL=500KN	 0.65 0.45 12Ø20 DL=1750KN/LL=750KN	 0.65 0.45 16Ø20 DL=2000KN/LL=800KN	 0.70 0.50 12Ø20 DL=2500KN/LL=1200KN
<i>GF</i>	 0.5 0.3 16Ø12 DL=500KN/LL=250KN	 0.5 0.45 12Ø16 DL=750KN/LL=500KN	 0.65 0.45 12Ø20 DL=1750KN/LL=750KN	 0.65 0.45 16Ø20 DL=2000KN/LL=800KN	 0.70 0.50 12Ø20 DL=2500KN/LL=1200KN
<i>1<sup>st</sup>F</i>	 0.5 0.3 16Ø12 DL=500KN/LL=250KN	 0.5 0.45 12Ø16 DL=750KN/LL=500KN	 0.65 0.45 12Ø20 DL=1750KN/LL=750KN	 0.65 0.45 16Ø20 DL=2000KN/LL=800KN	 0.70 0.50 12Ø20 DL=2500KN/LL=1200KN
<i>2<sup>nd</sup>F</i>	 0.5 0.3 16Ø12 DL=500KN/LL=250KN	 0.5 0.45 12Ø16 DL=750KN/LL=500KN	 0.65 0.45 12Ø20 DL=1750KN/LL=750KN	 0.65 0.45 16Ø20 DL=2000KN/LL=800KN	 0.70 0.50 12Ø20 DL=2500KN/LL=1200KN

# Columns Detailing's C1

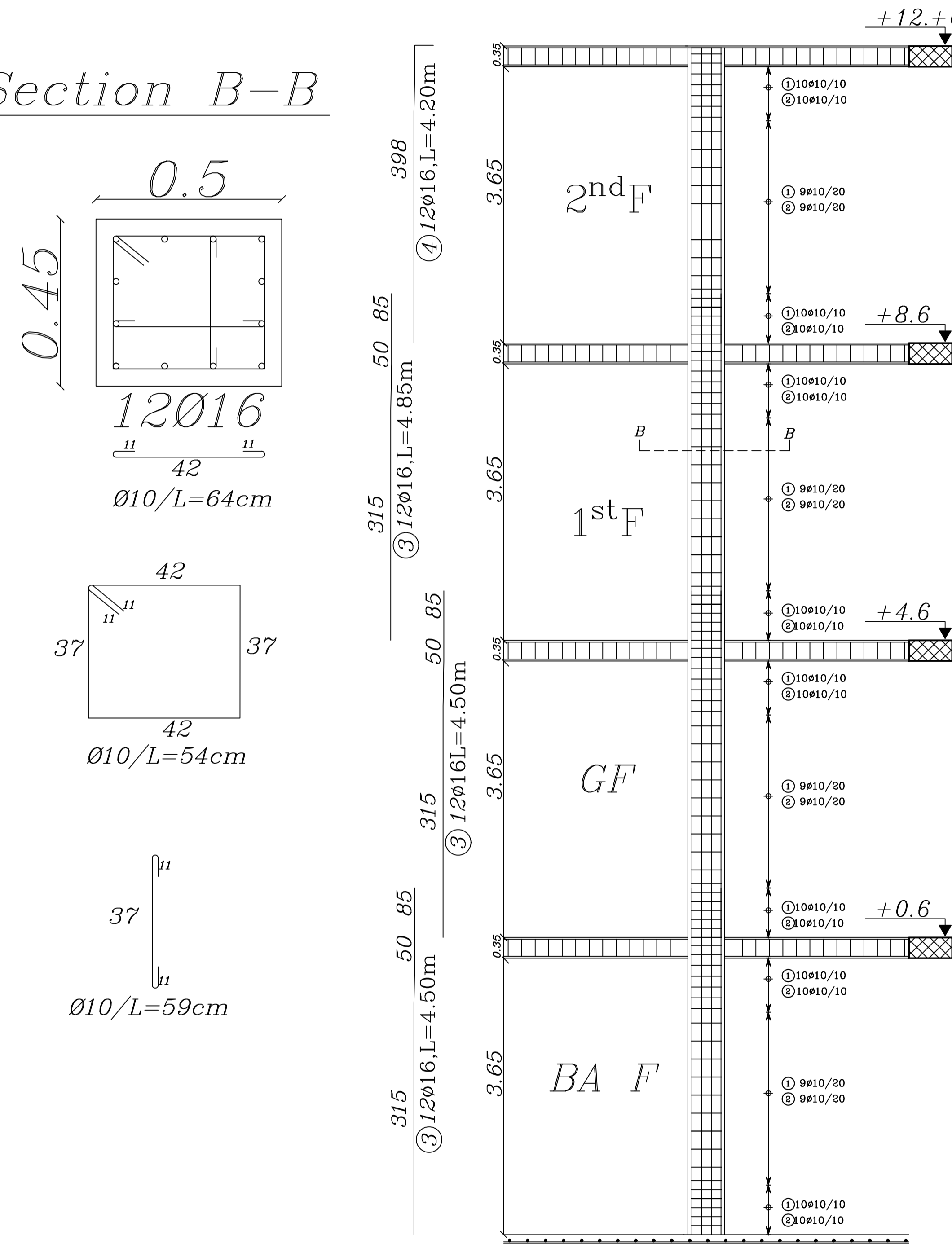
## Section A-A



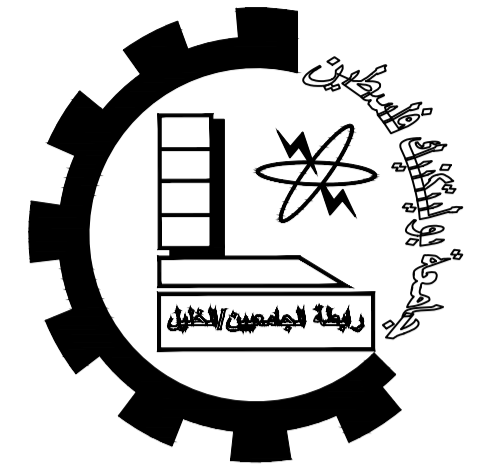
Scale 1/50

# Columns Detailing's C2

## Section B-B



Scale 1/50



Palestine Polytechnic University

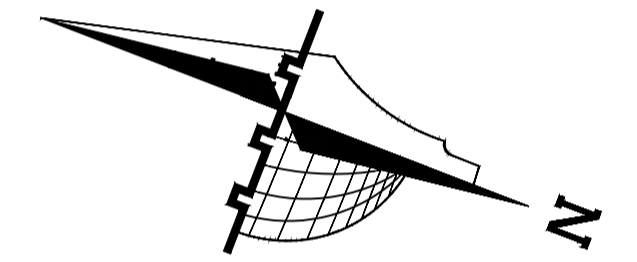
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

C1&C2

Supervisor:

Dr. Nafeth  
Naesr aldeen

Done by :

Hisham Shindy  
Ahmad Hajaj

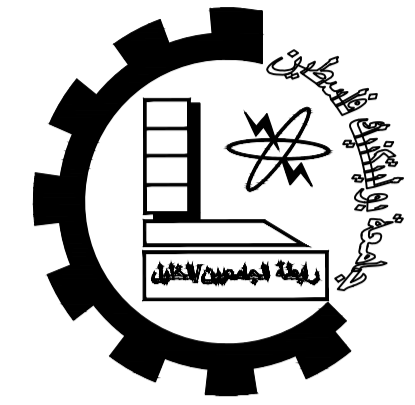
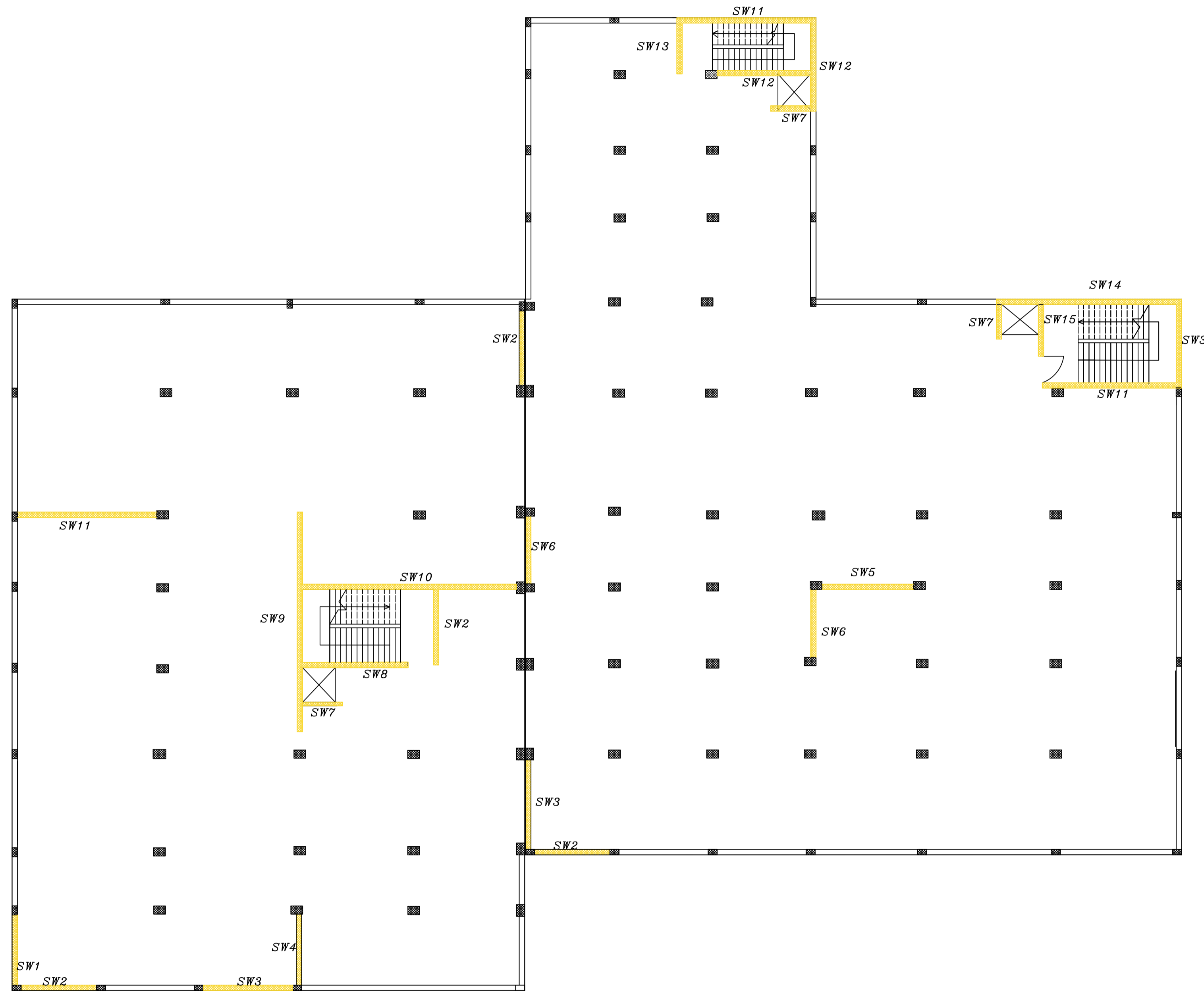
SCALE	No. of DRAW	DATE
1/100	S9	04/6/2024





# WALL PLAN

SCALE 1/100



Palestine Polytechnic University

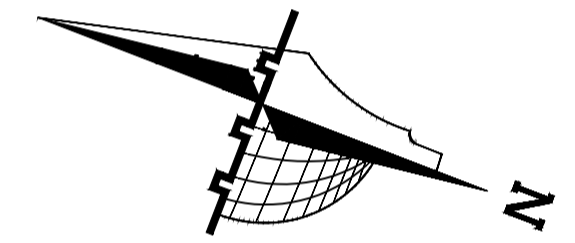
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- |                     |                 |
|---------------------|-----------------|
| Stone               | Gravel          |
| R.Concrete          | Wood            |
| Concrete            | HEXAGONAL TILES |
| Hollow Block        | BAKLAVA TILES   |
| isolating materials | GRASS           |

DRAWING TITLE :

Wall's Plan

Supervisor

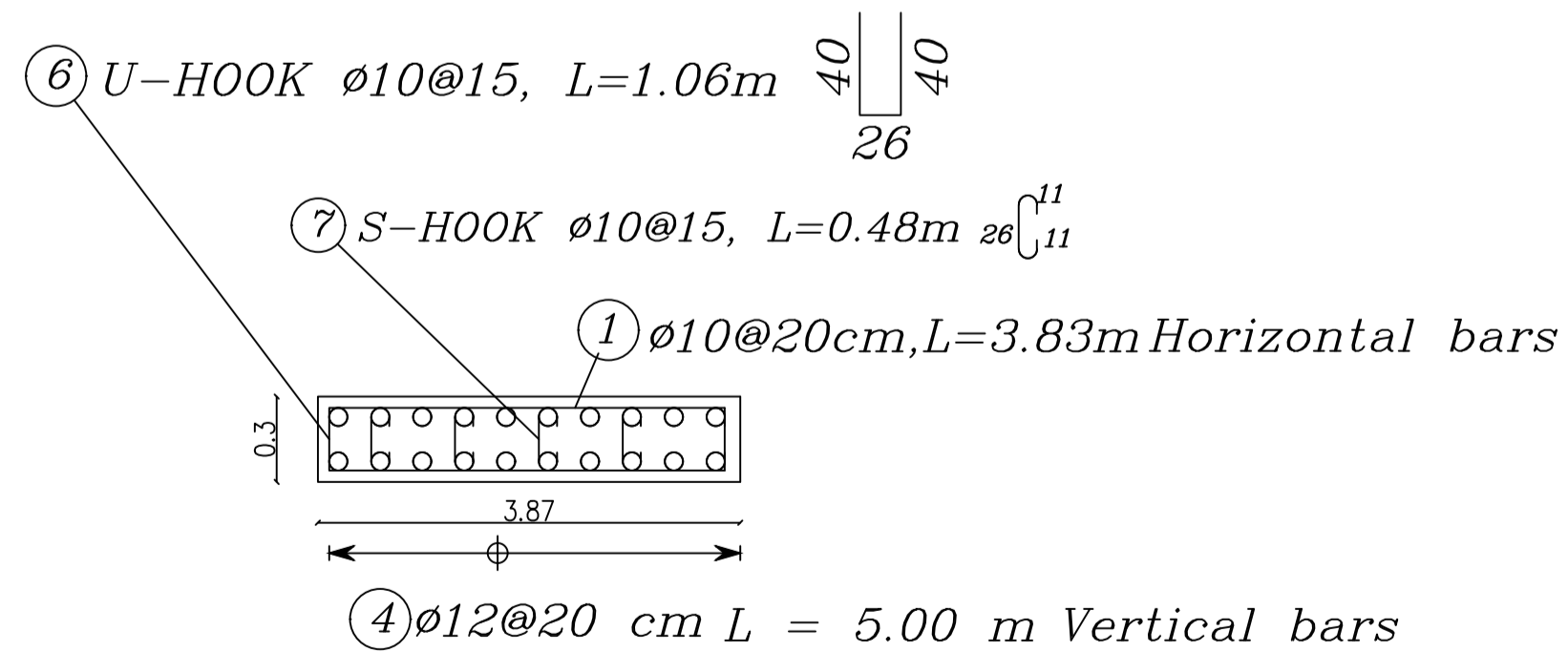
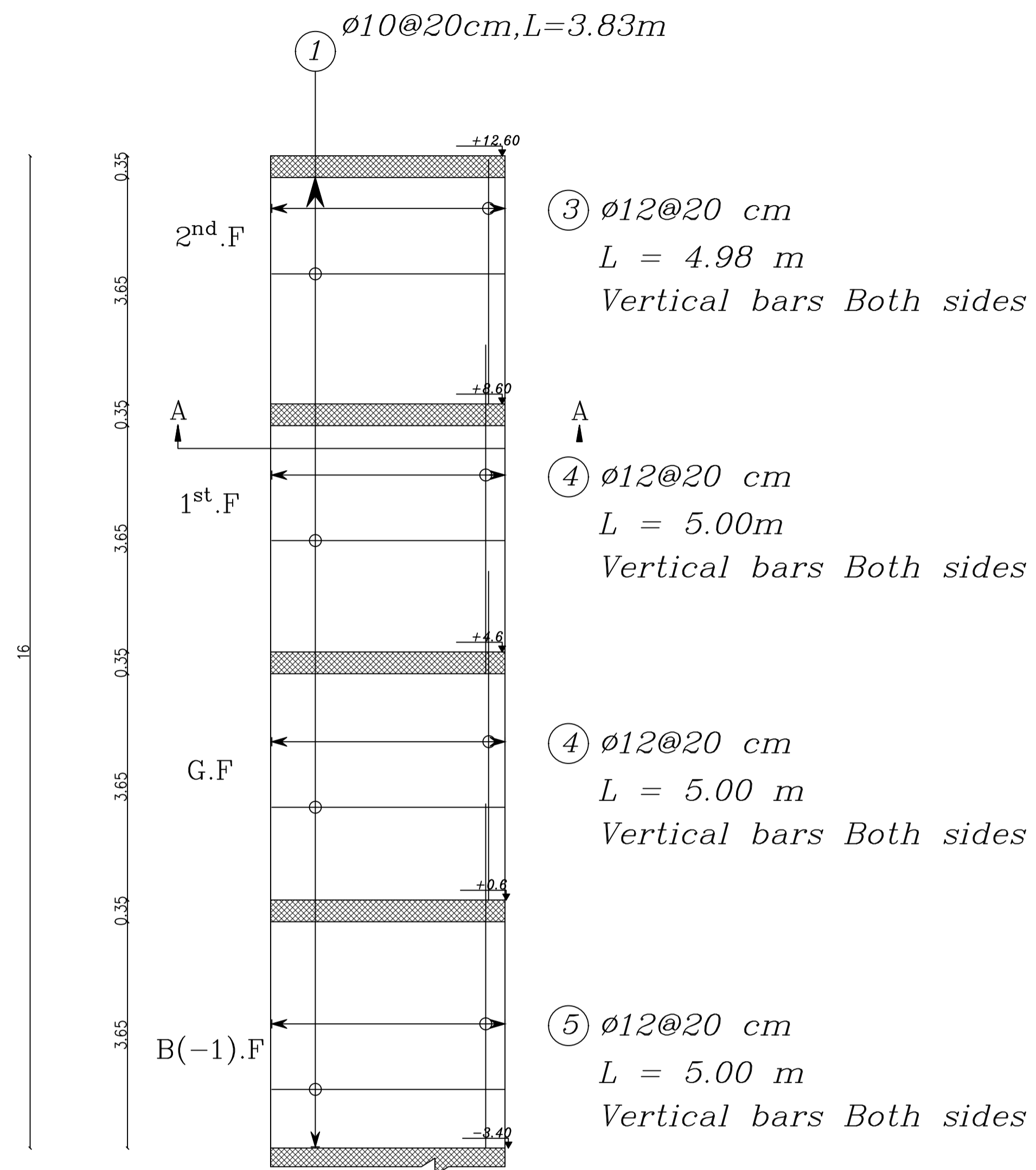
Dr. Nafeth  
Naesr aldeen

Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S12	04/6/2024

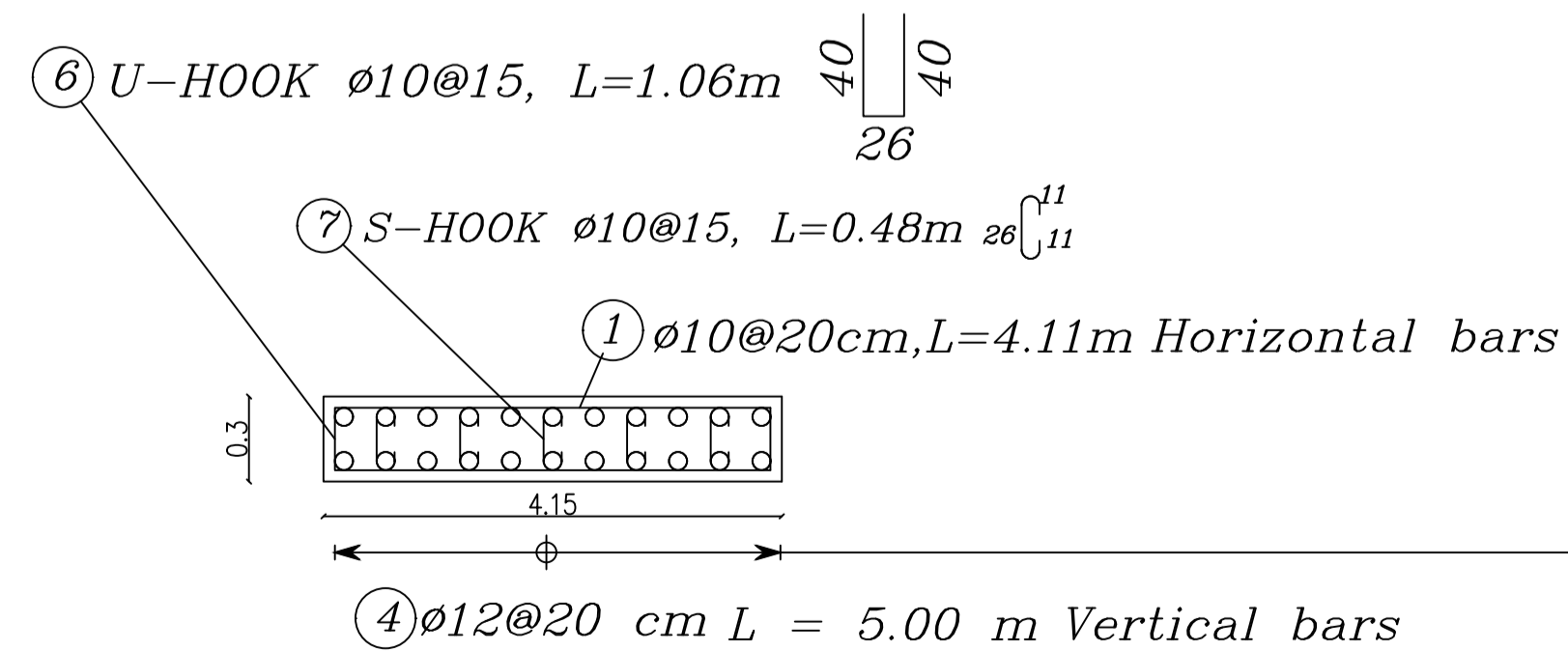
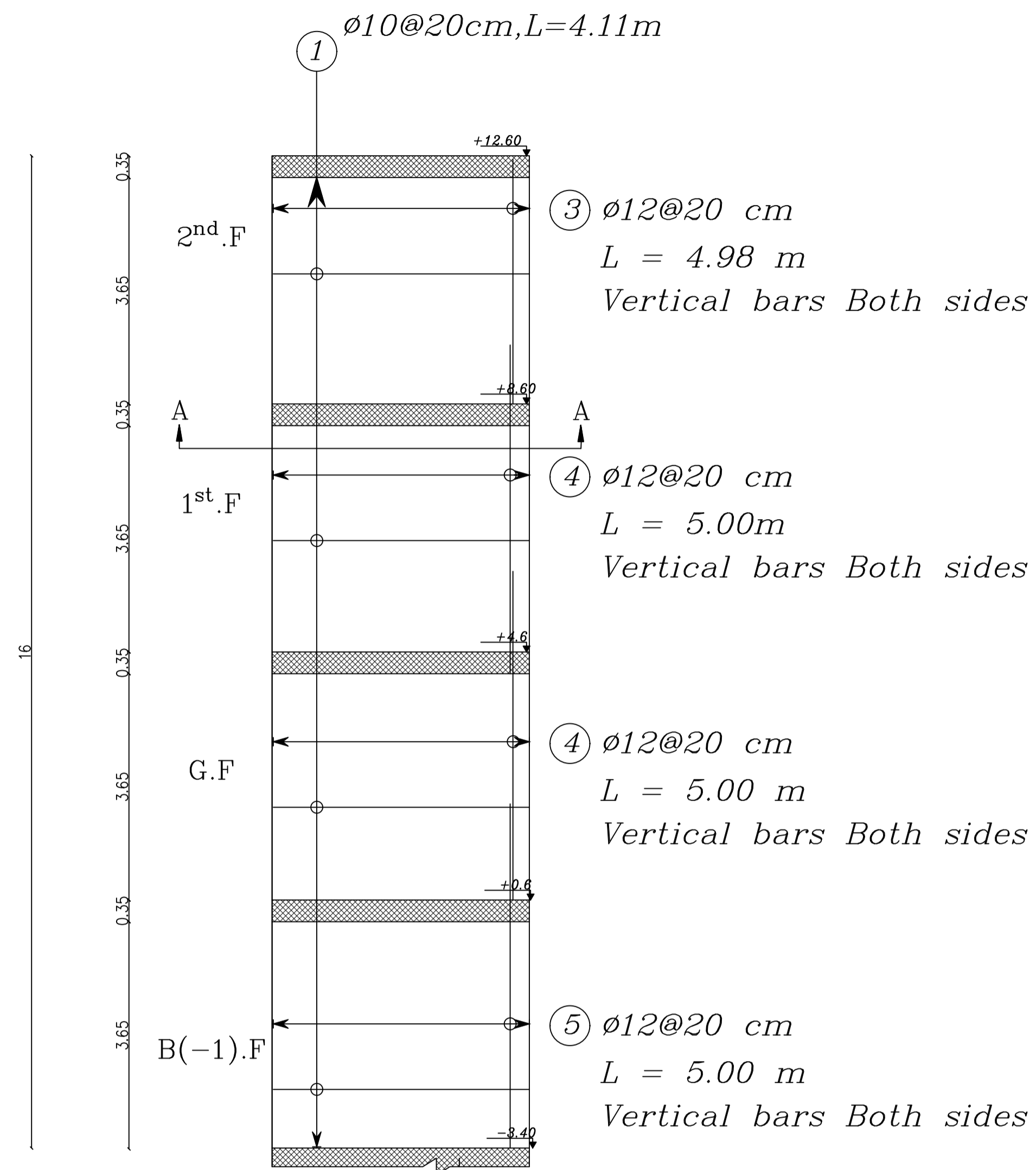
S.W.1



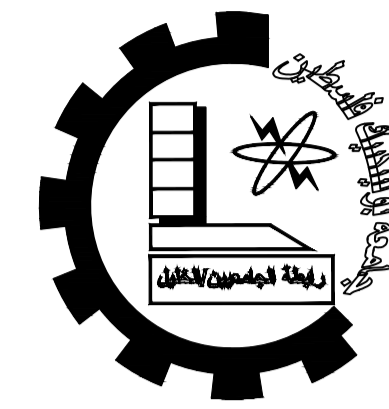
S.W.1

SCALE 1:25

S.W.2

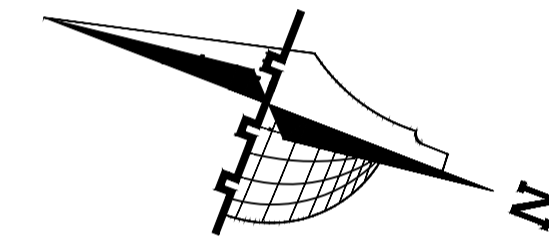


SCALE 1:25



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering  
Graduation Project

Panorama Mall



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materials	GRASS

DRAWING TITLE :

SHEAR WALL 1&2  
REINFORCEMENT

Supervisor

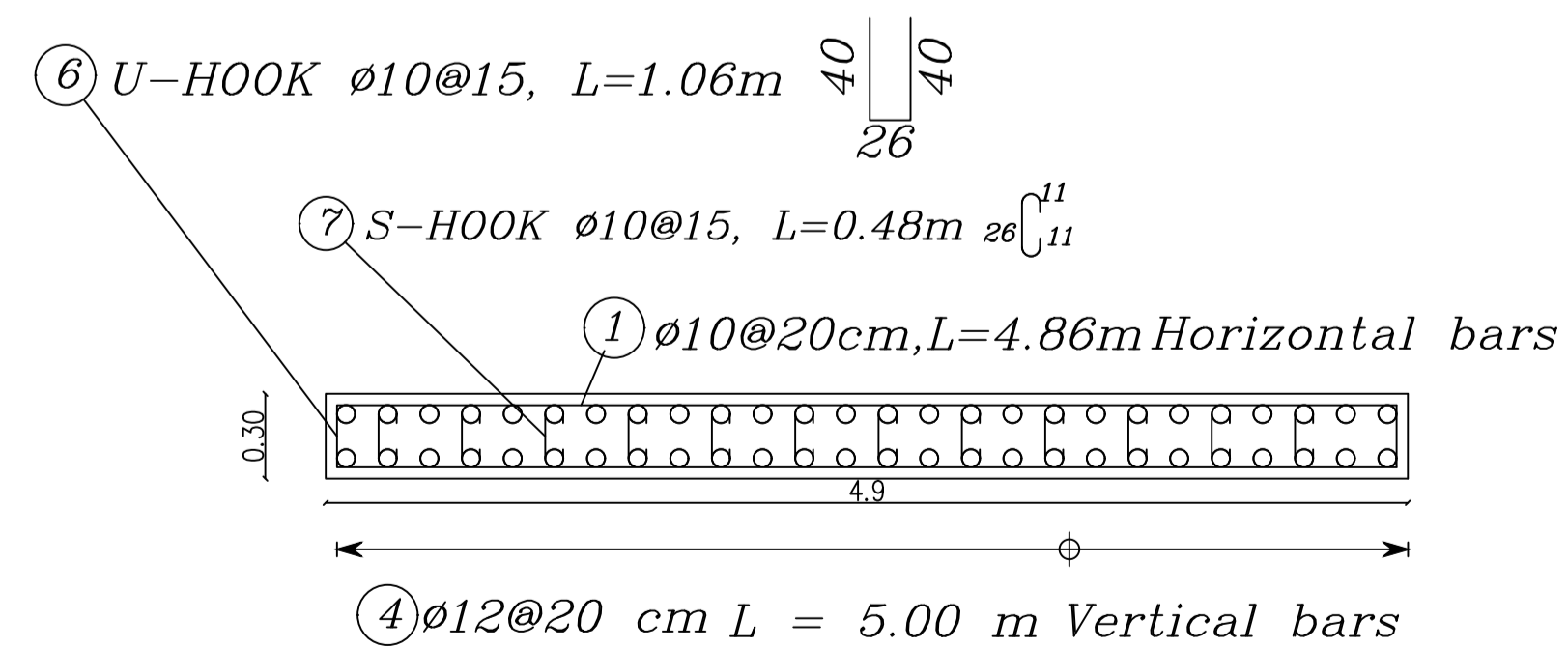
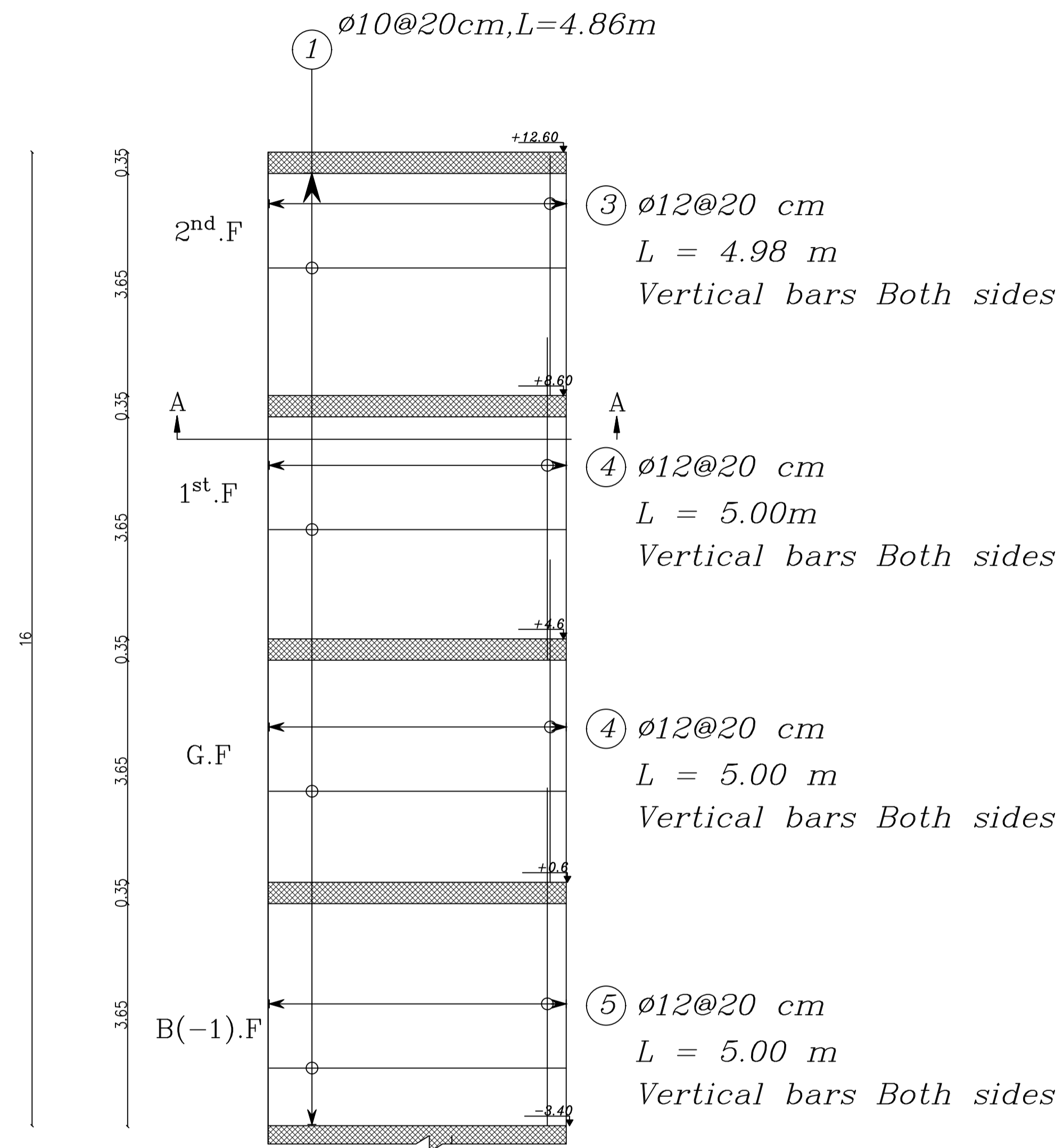
Dr. Nafeth  
Naesr aldeen

Done by :

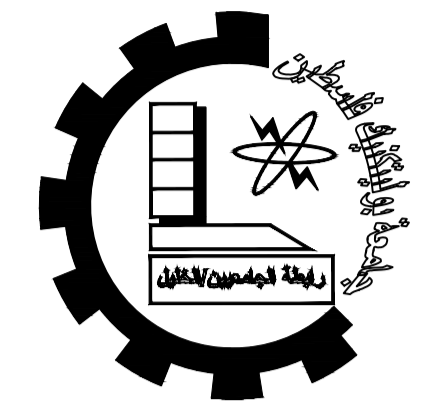
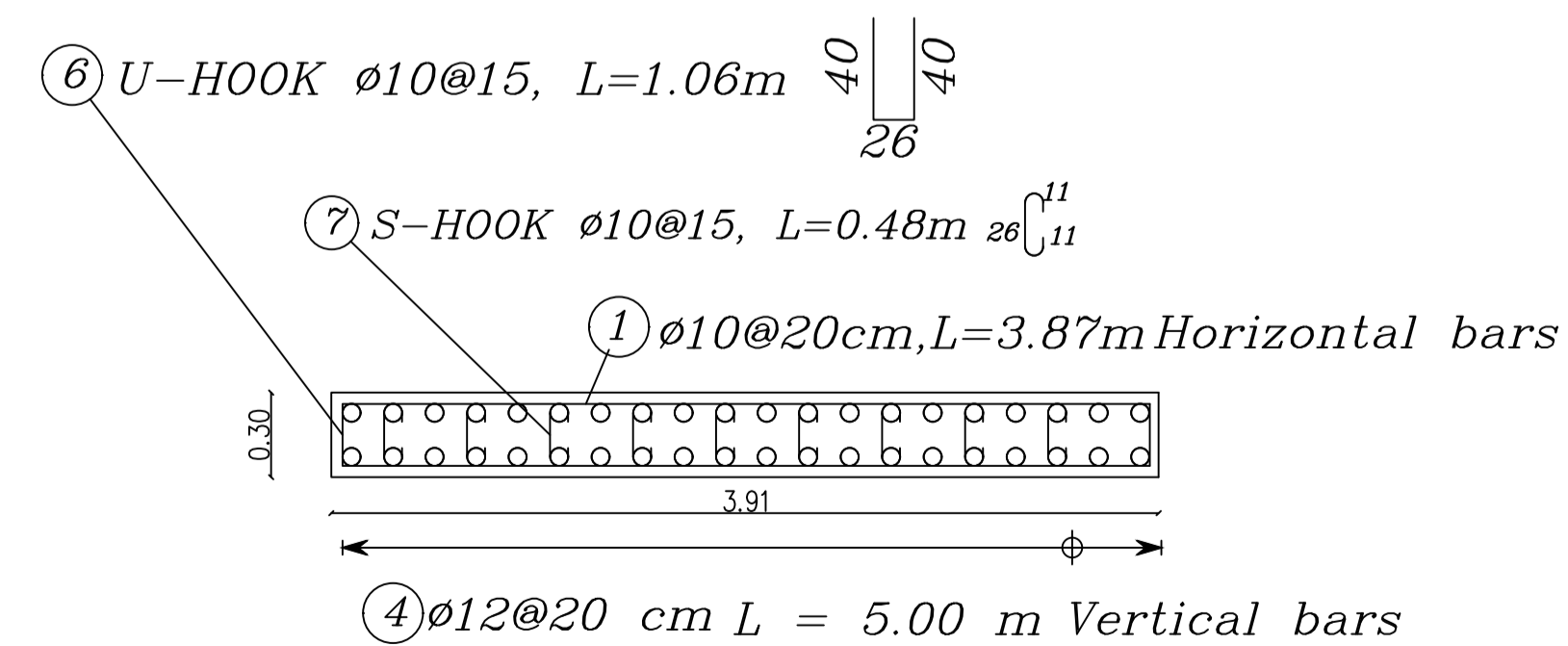
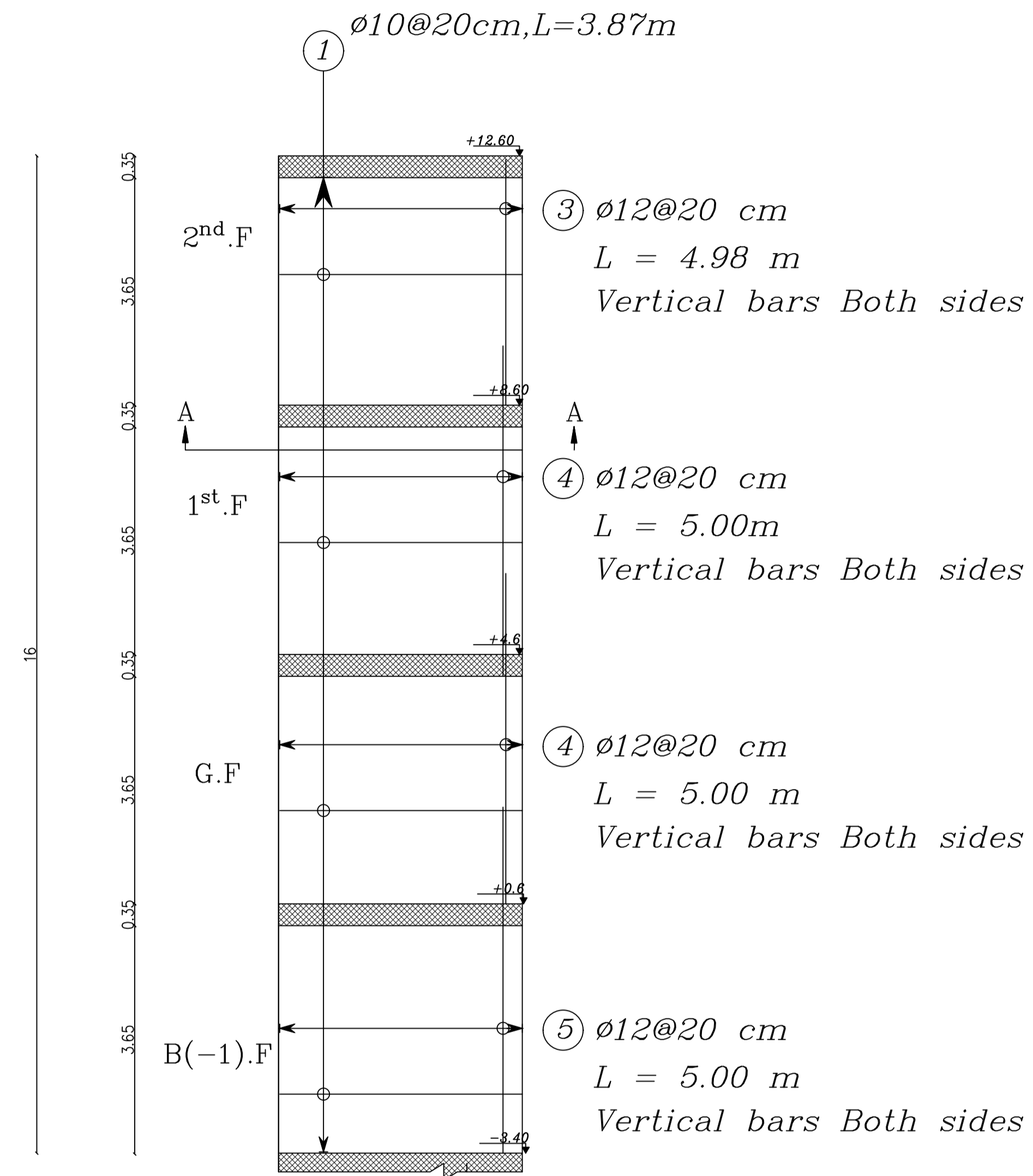
Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S13	04/6/2024

S.W.3

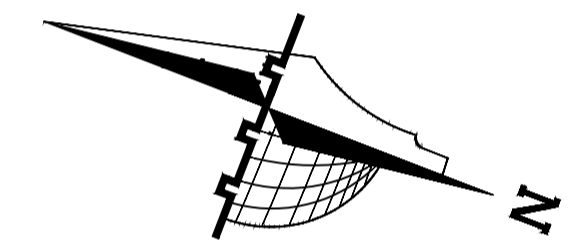


S.W.4



Palestine Polytechnic University  
 College of Engineering  
 Civil Engineering Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materials	GRASS

DRAWING TITLE :

SHEAR WALL 3&4 REINFORCEMENT

Supervisor

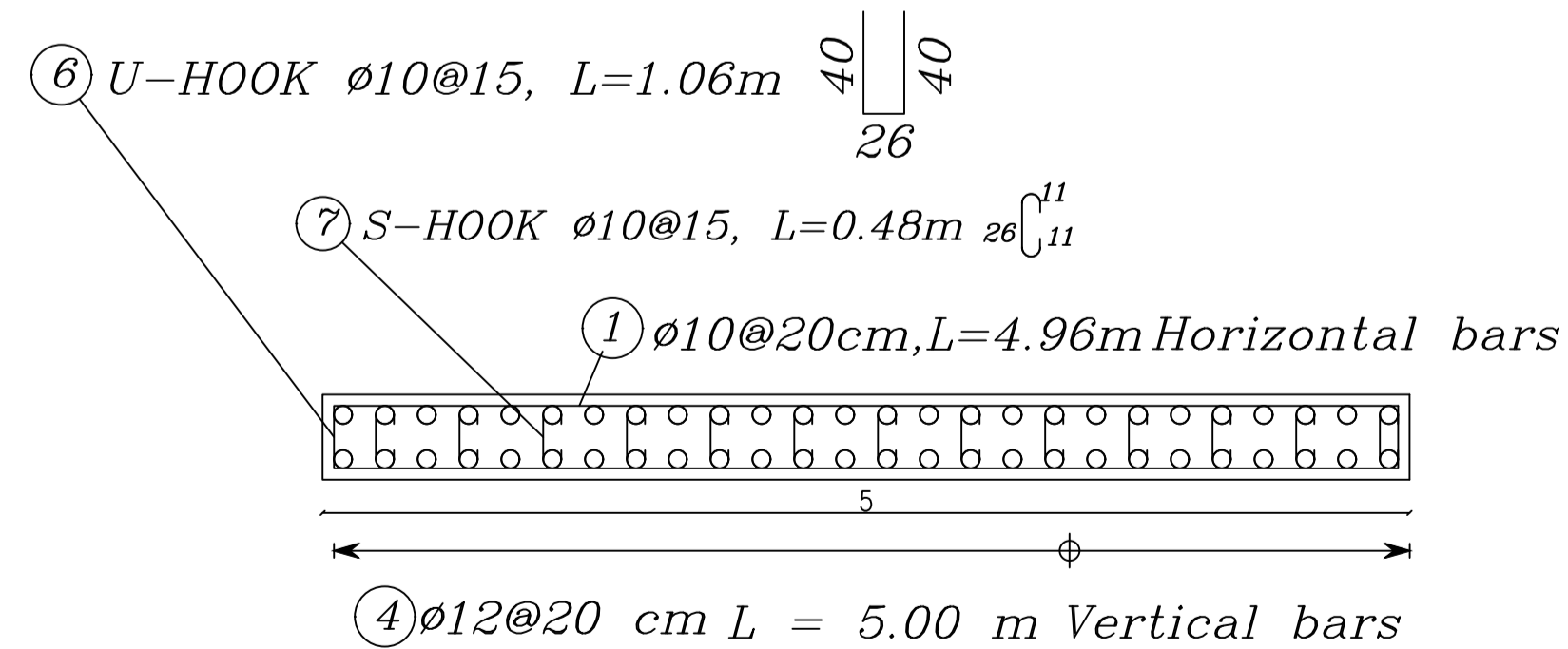
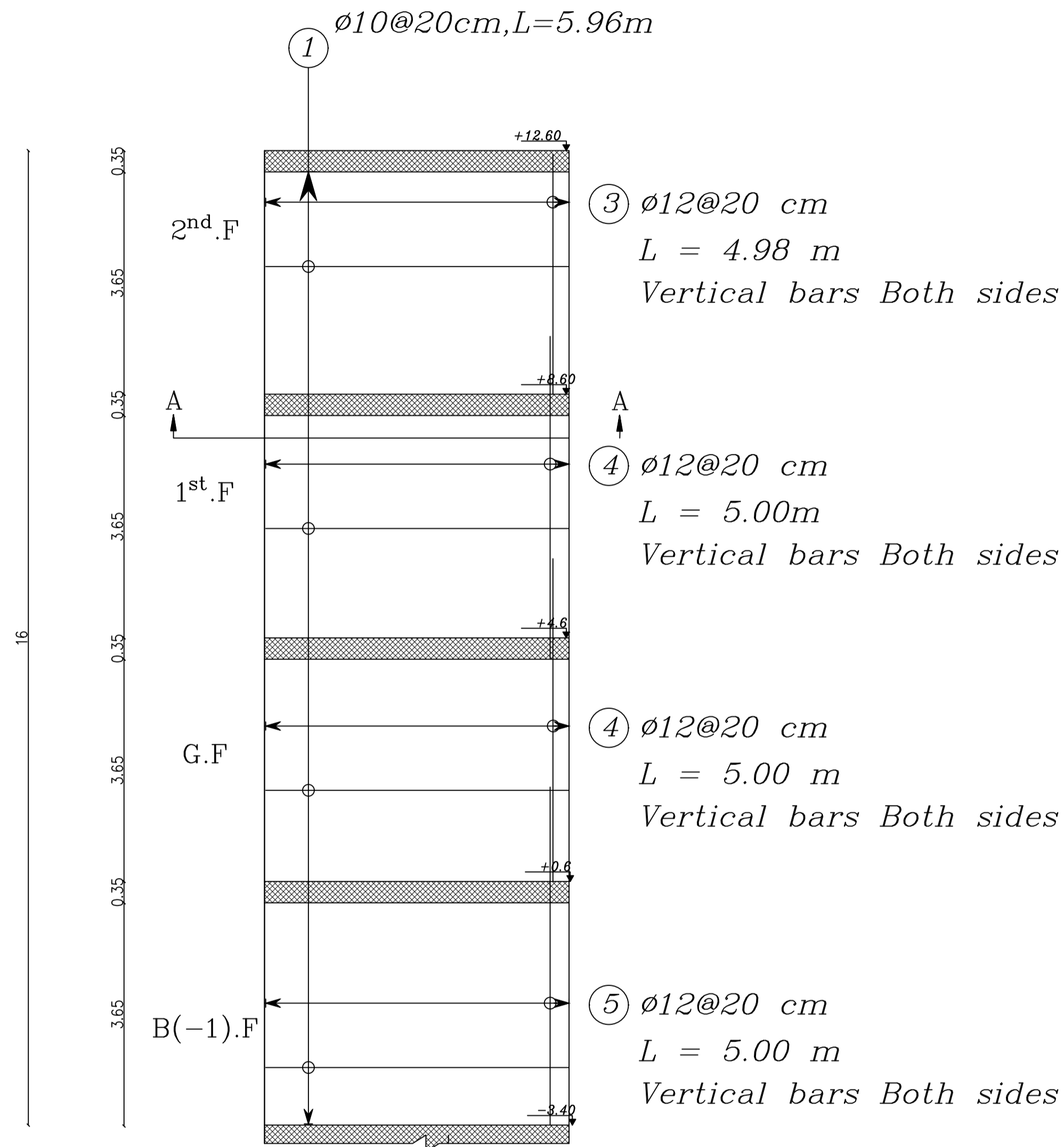
Dr. Nafeth Naesr aldeen

Done by :

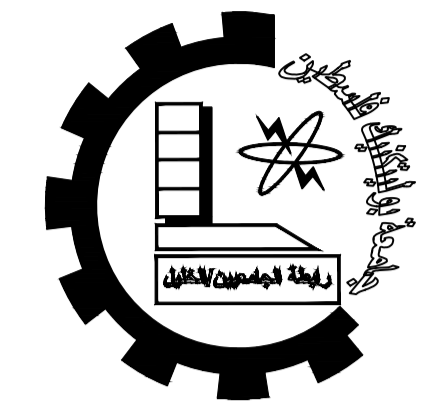
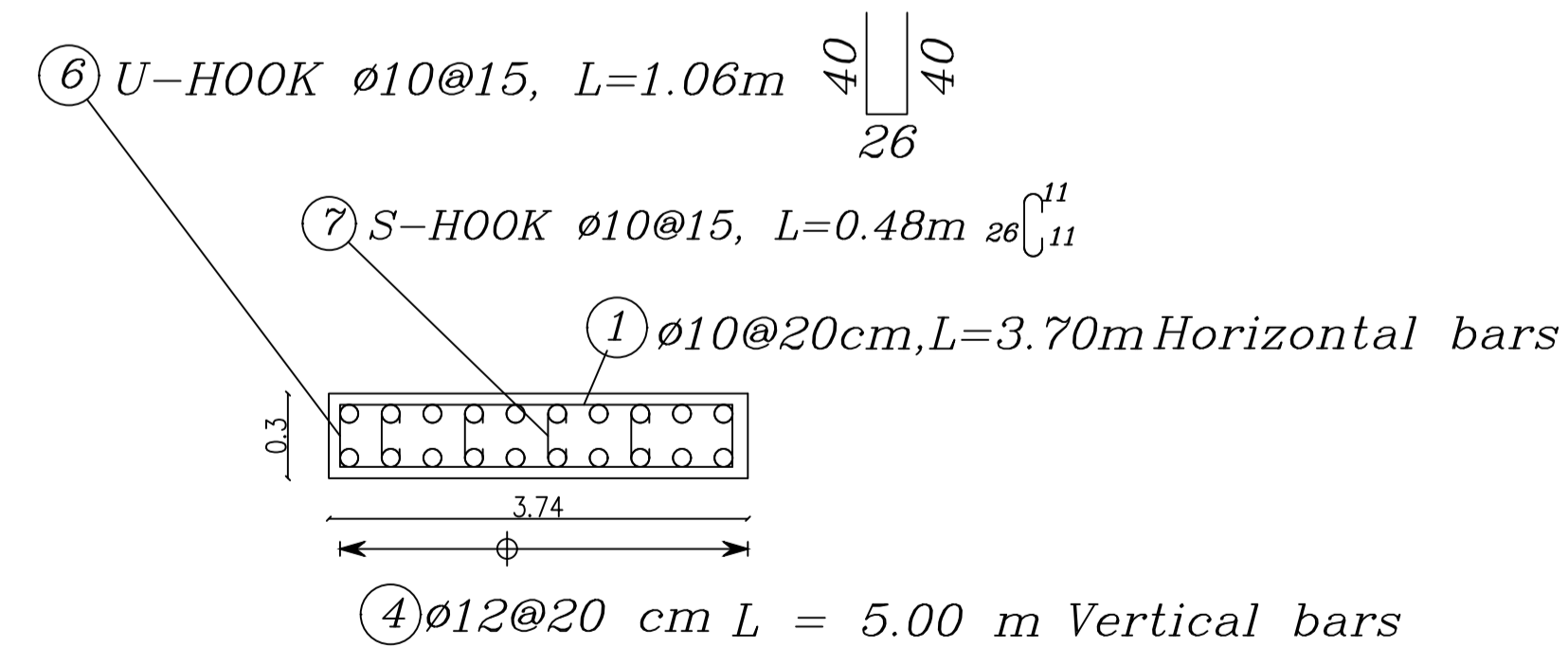
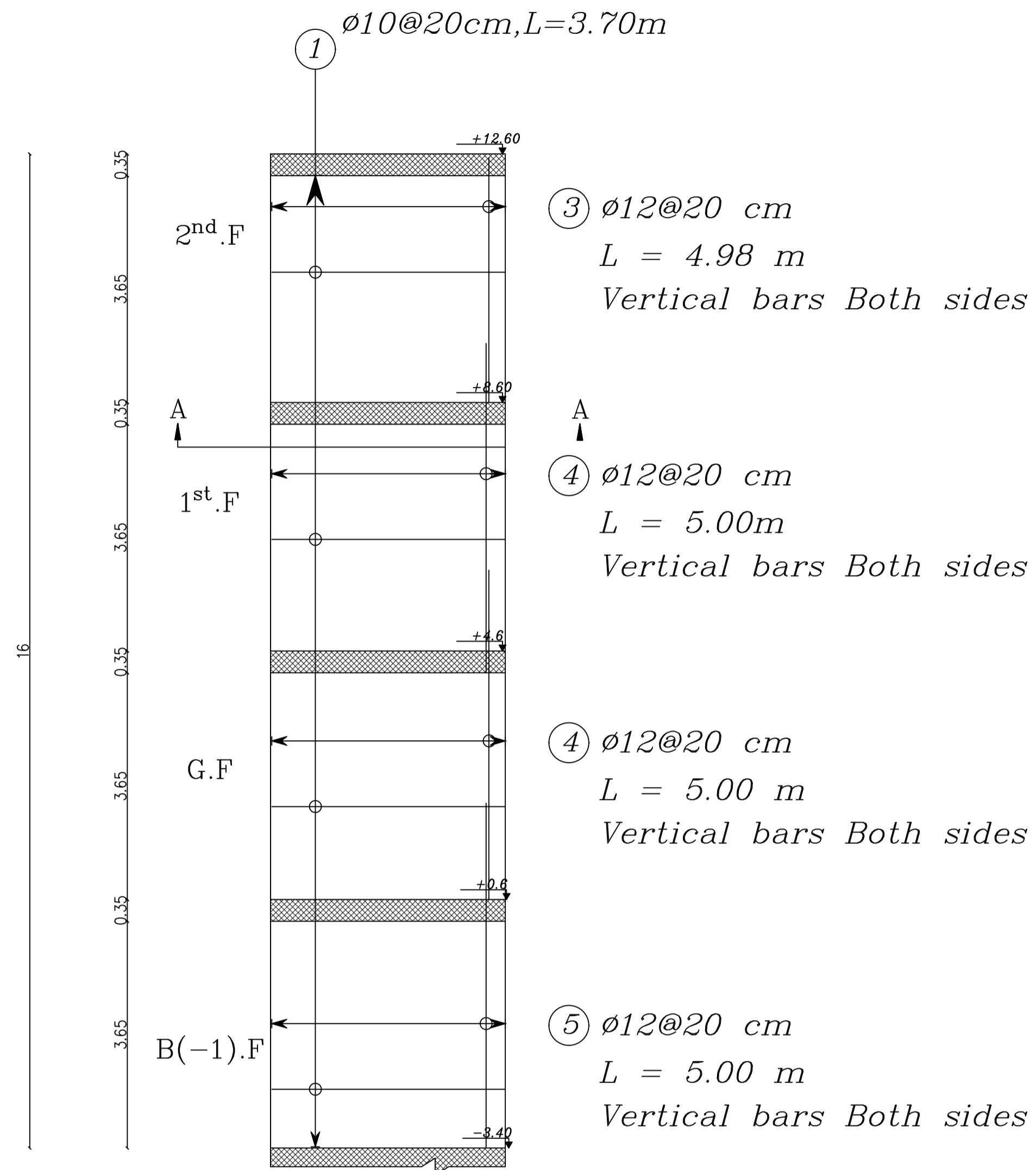
Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S14	04/6/2024

S.W.5

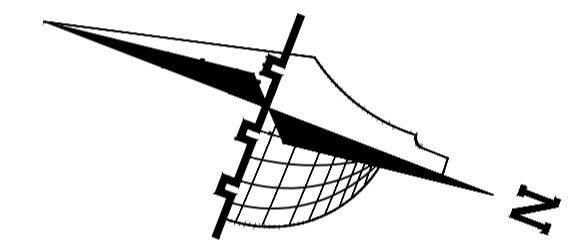


S.W.6



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering  
Graduation Project

Panorama Mall



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materials	GRASS

DRAWING TITLE :

SHEAR WALL 5&6  
REINFORCEMENT

Supervisor

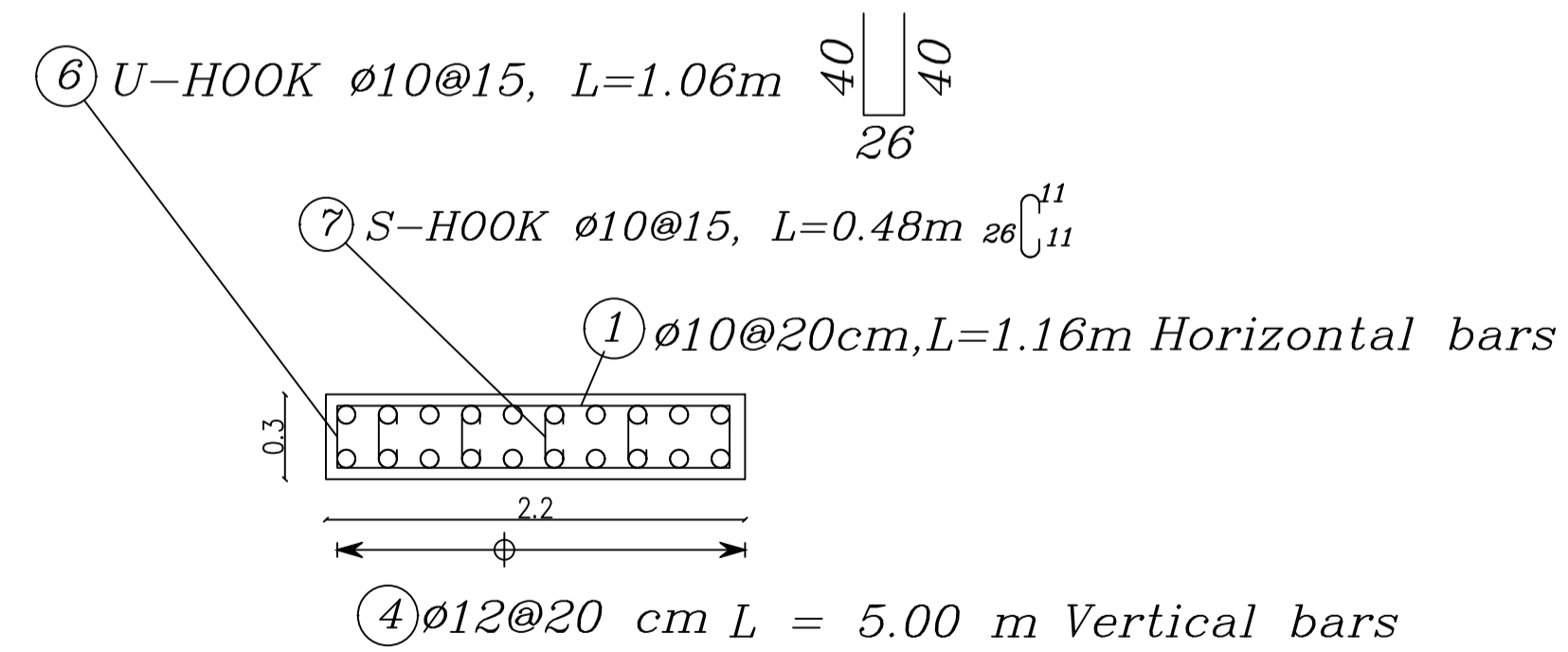
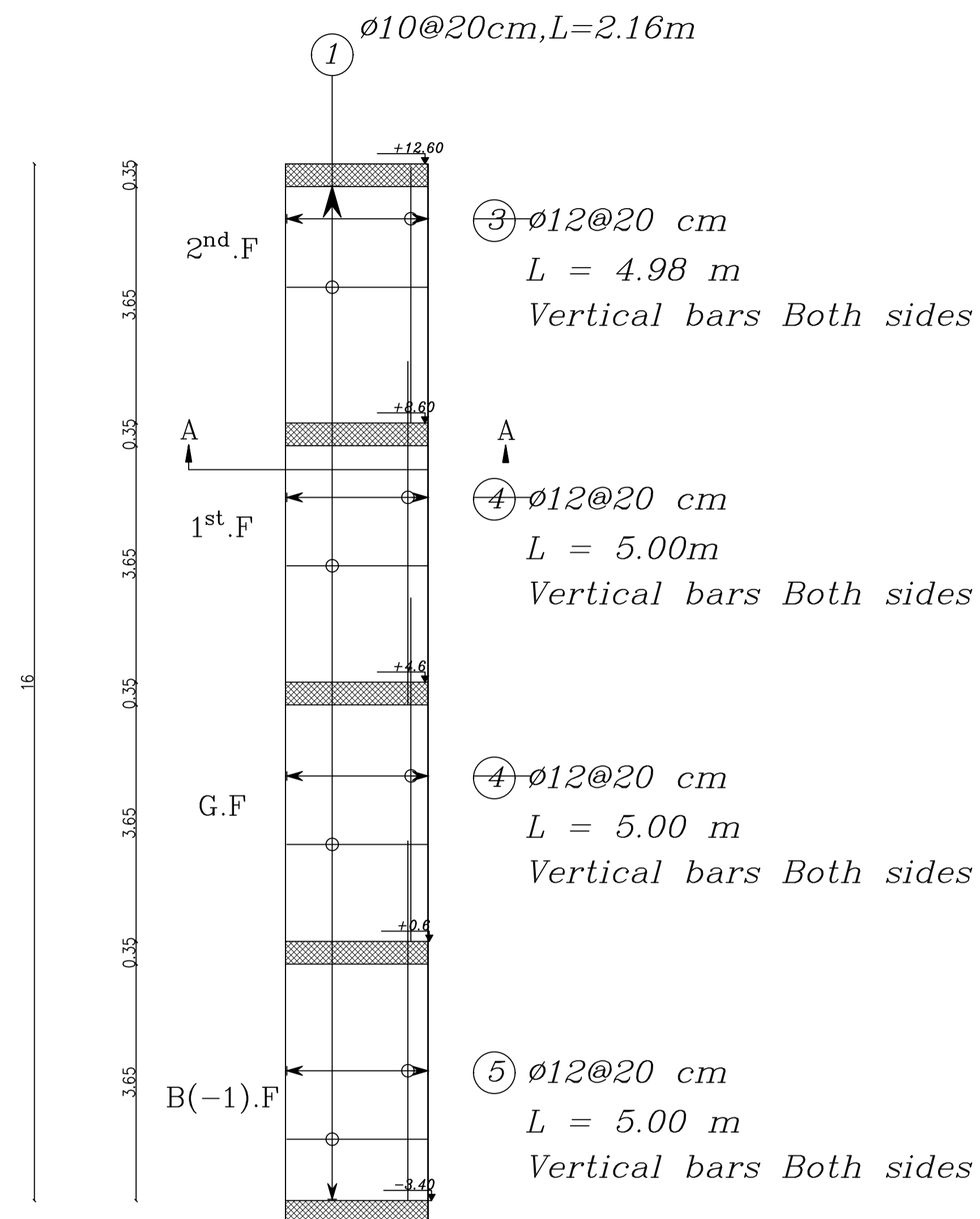
Dr. Nafeth  
Naesr aldeen

Done by :

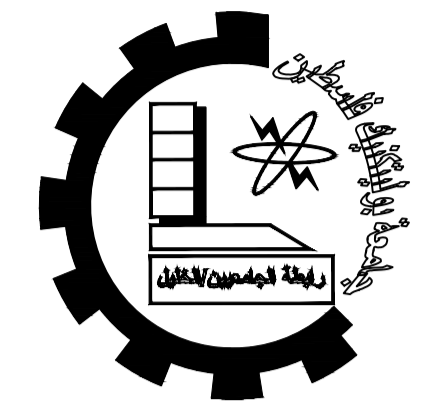
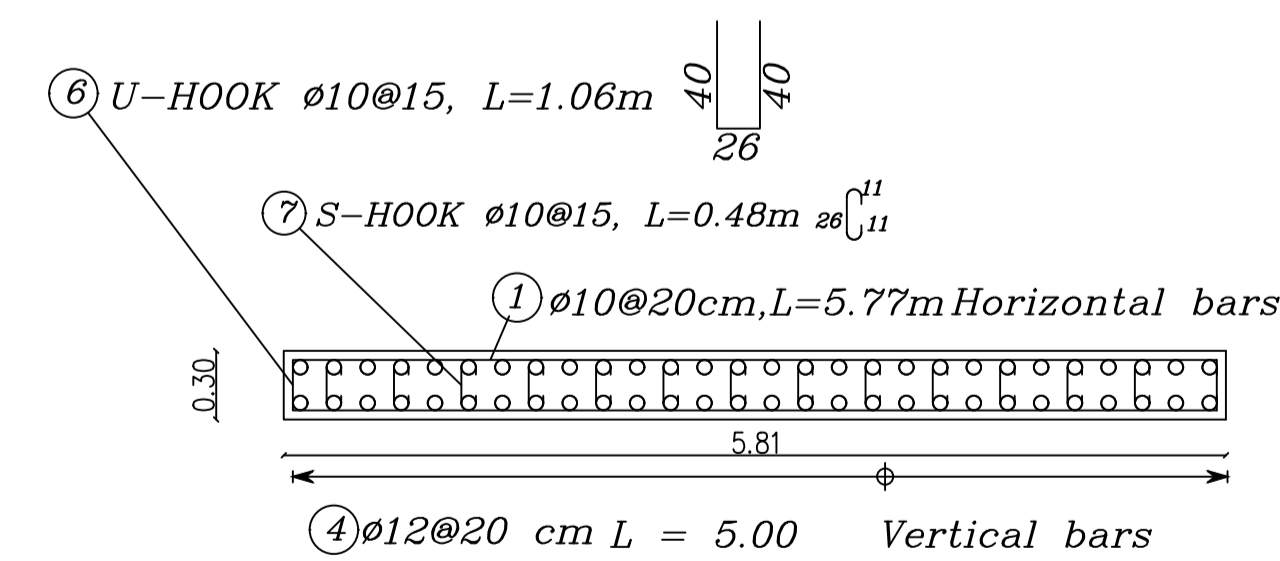
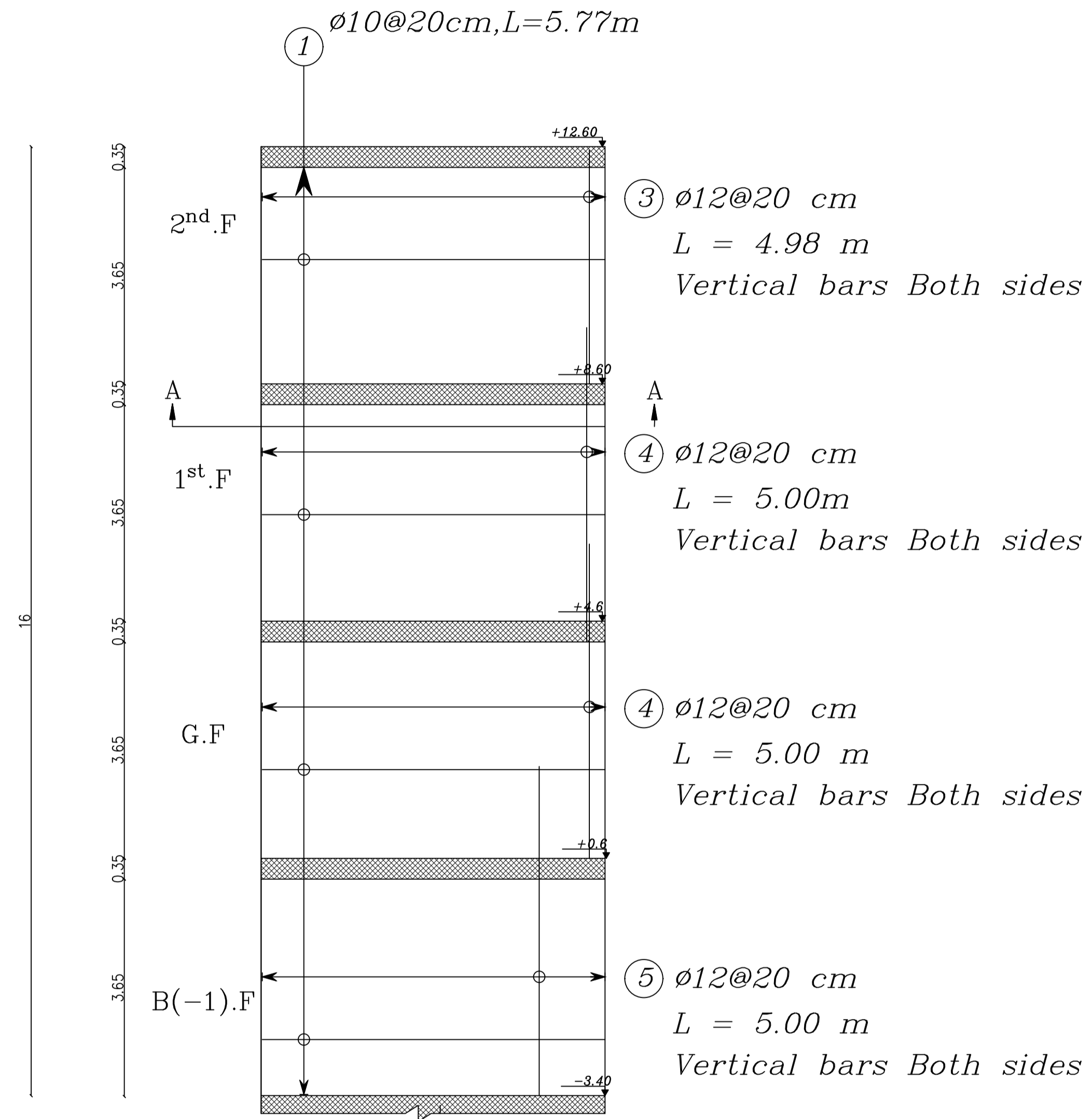
Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S15	04/6/2024

S.W.7

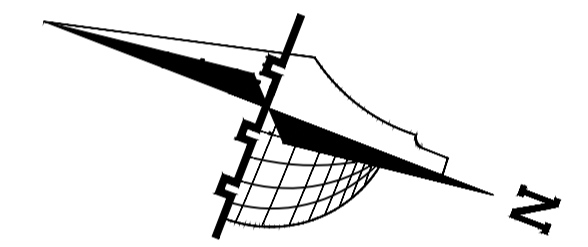


S.W.8



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering  
Graduation Project

Panorama Mall



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materials	GRASS

DRAWING TITLE :

SHEAR WALL 7&8  
REINFORCEMENT

Supervisor

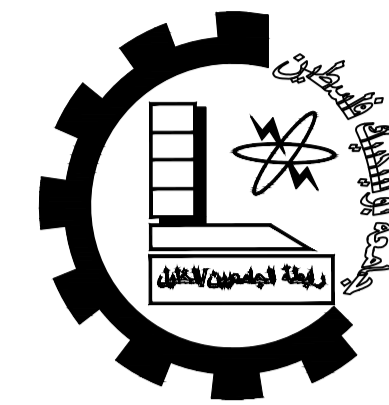
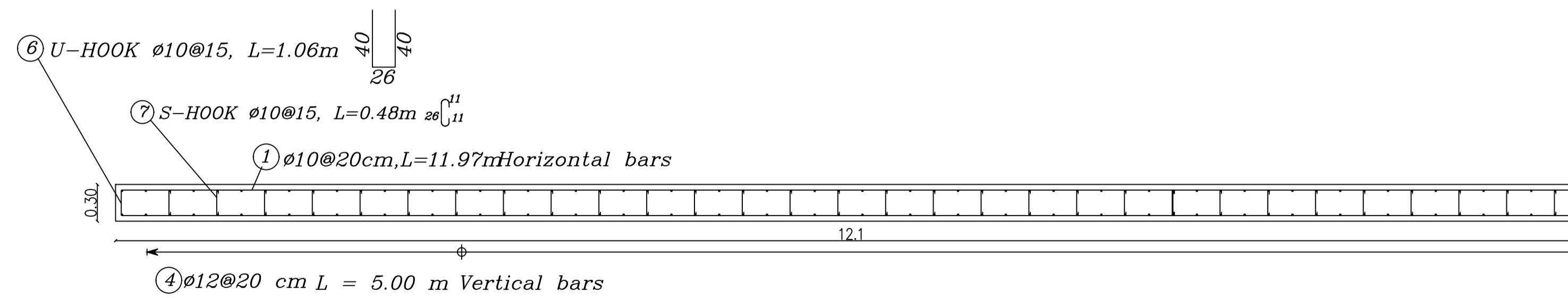
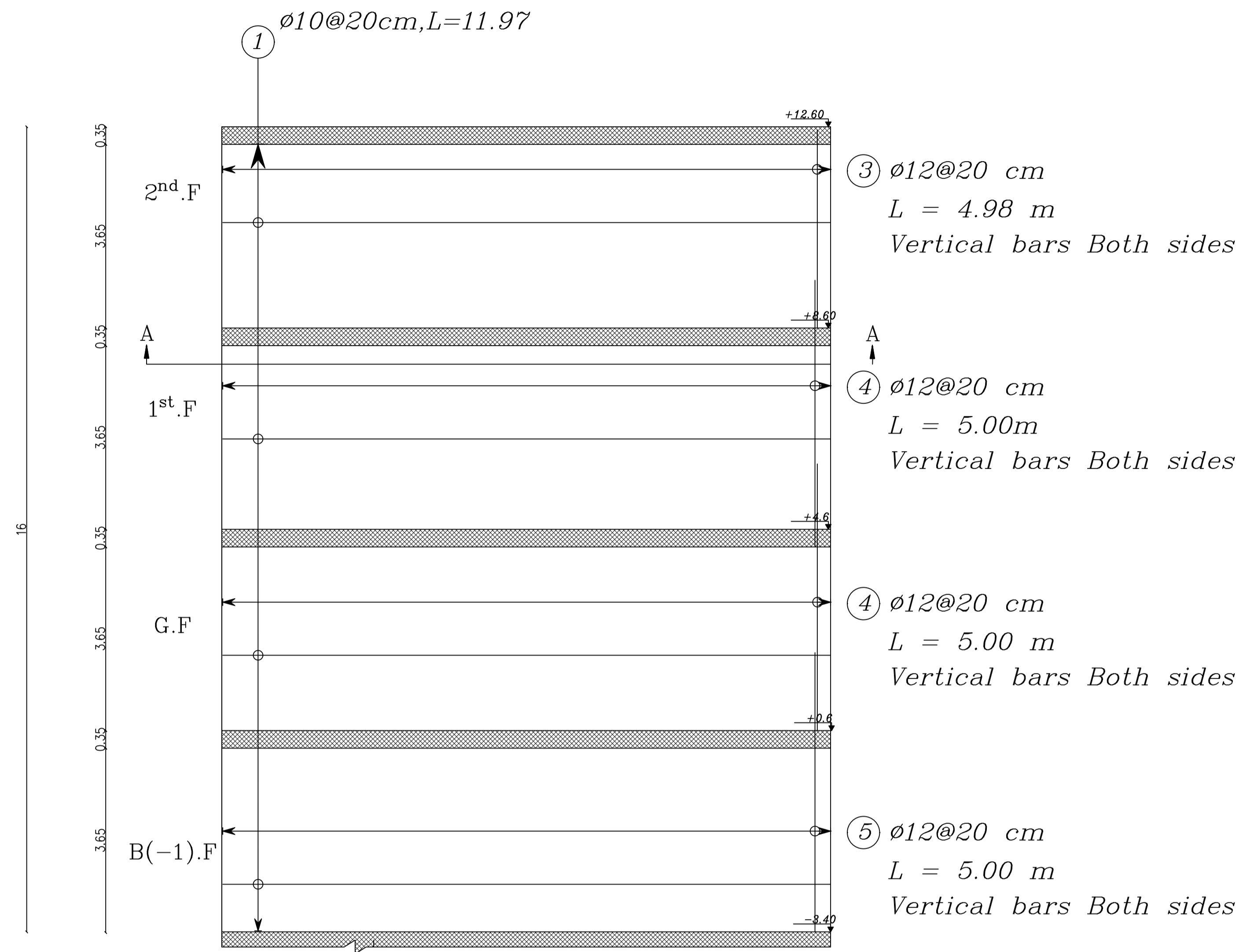
Dr. Nafeth  
Naesr aldeen

Done by :

Hisham Shindy  
Ahmad Hajaj

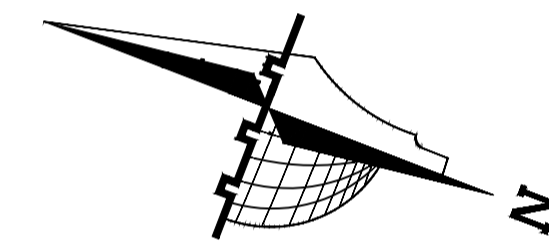
SCALE	No. of DRAW	DATE
1/200	S16	04/6/2024

S.W.9



Palestine Polytechnic University  
 College of Engineering  
 Civil Engineering Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materials	GRASS

DRAWING TITLE :

SHEAR WALL 9  
 REINFORCEMENT

Supervisor

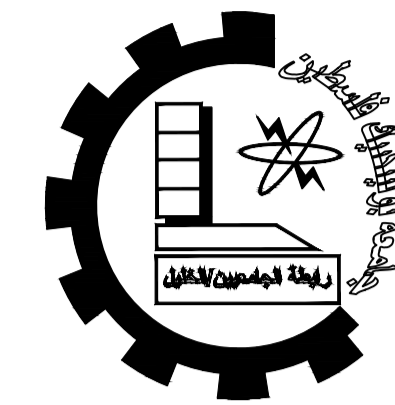
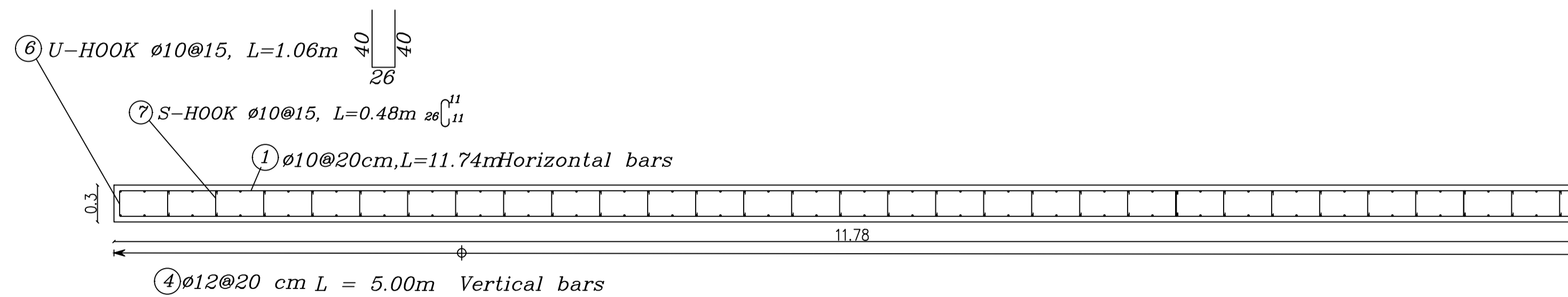
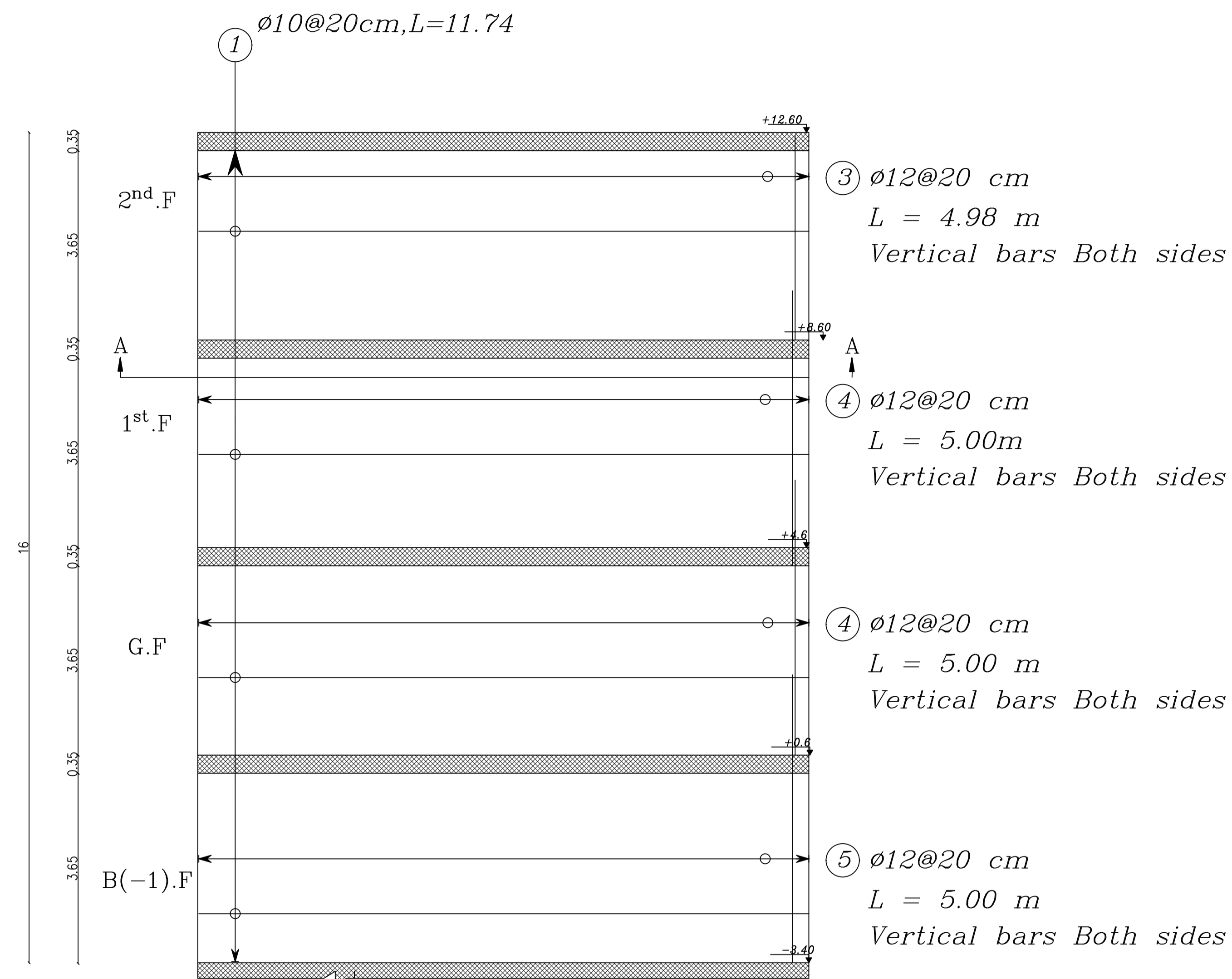
Dr. Nafeth  
 Naesr aldeen

Done by :

Hisham Shindy  
 Ahmad Hajaj

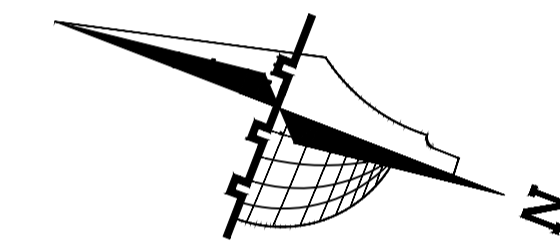
SCALE	No. of DRAW	DATE
1/200	S17	04/6/2024

S.W.10



Palestine Polytechnic University  
 College of Engineering  
 Civil Engineering Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



**Legend :**

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

SHEAR WALL 1&2  
 REINFORCEMENT

Supervisor

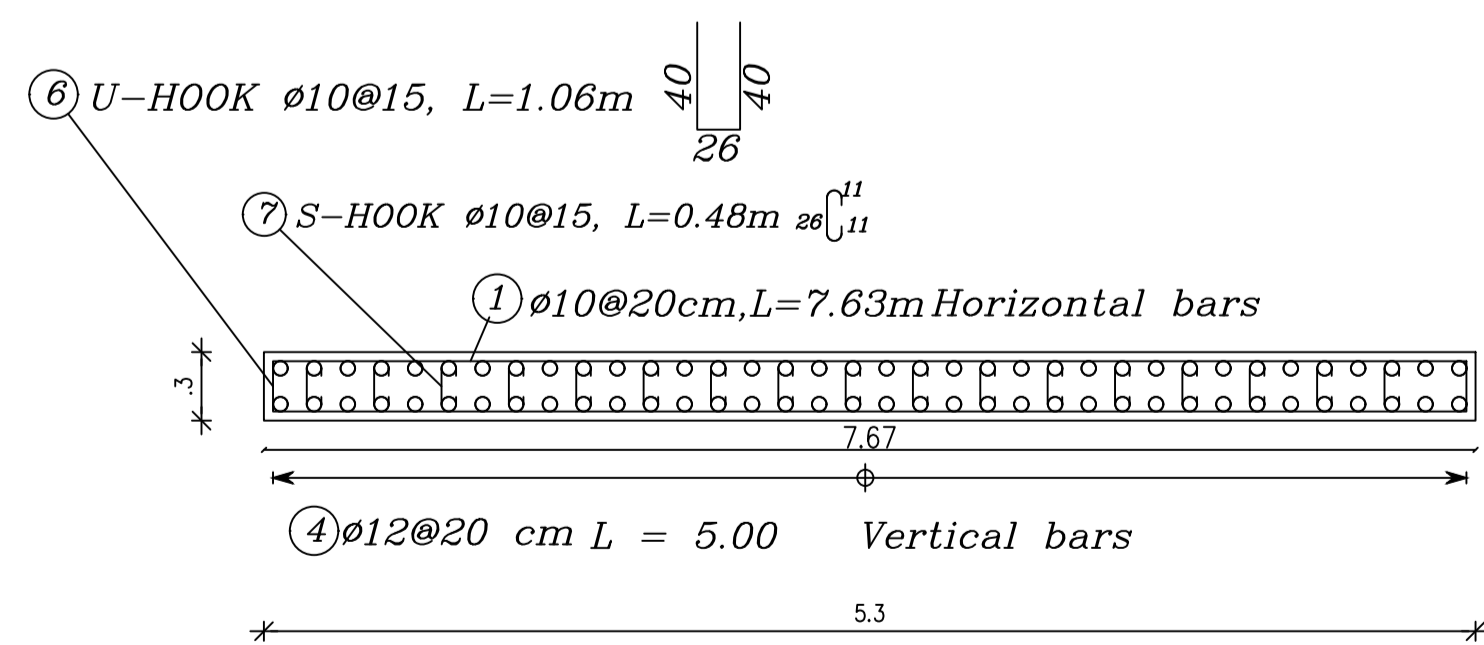
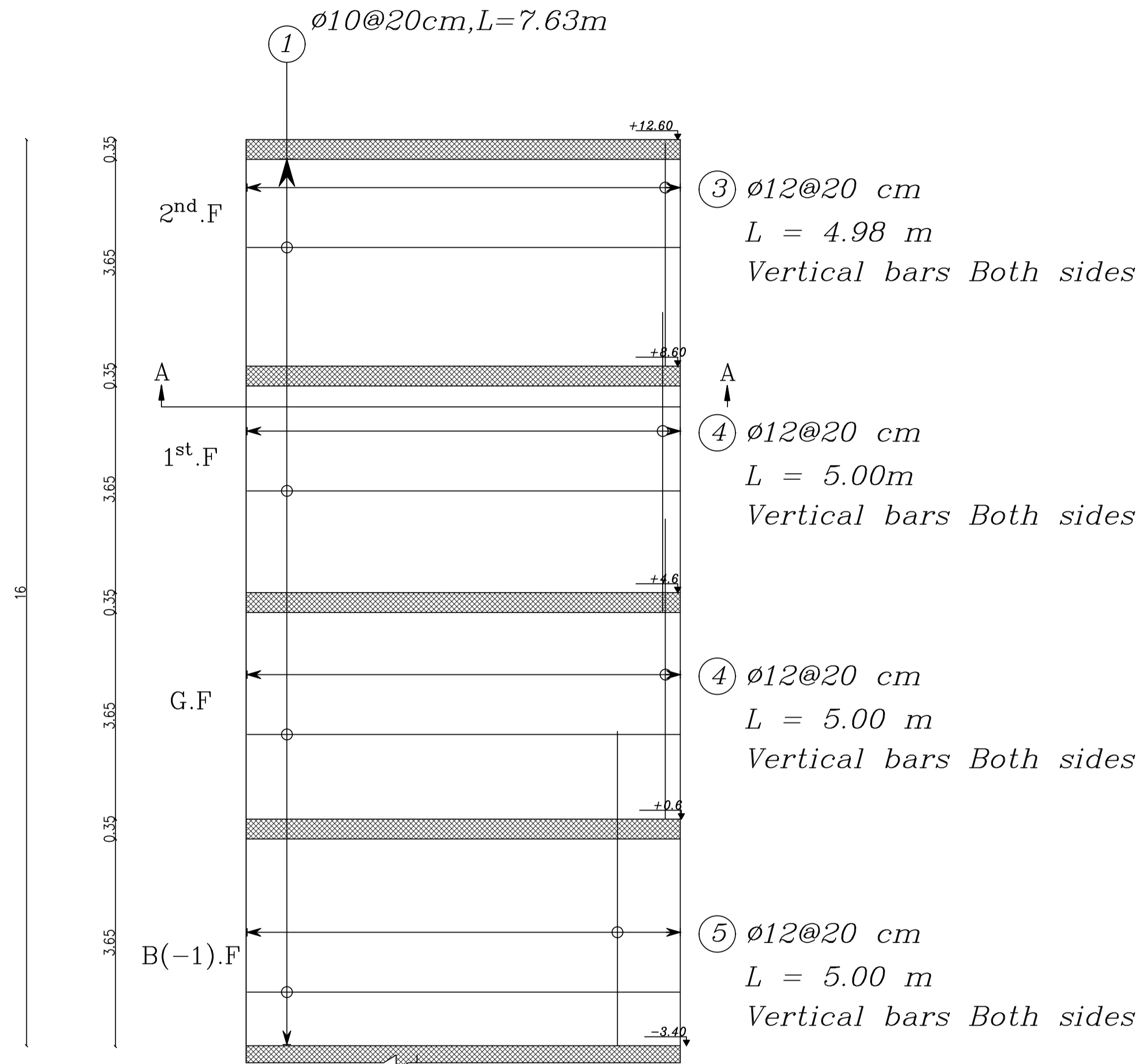
Dr. Nafeth  
 Naesr aldeen

Done by :

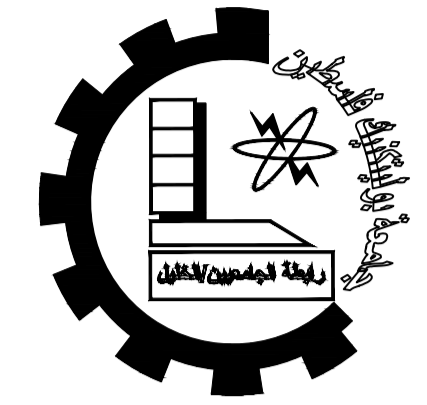
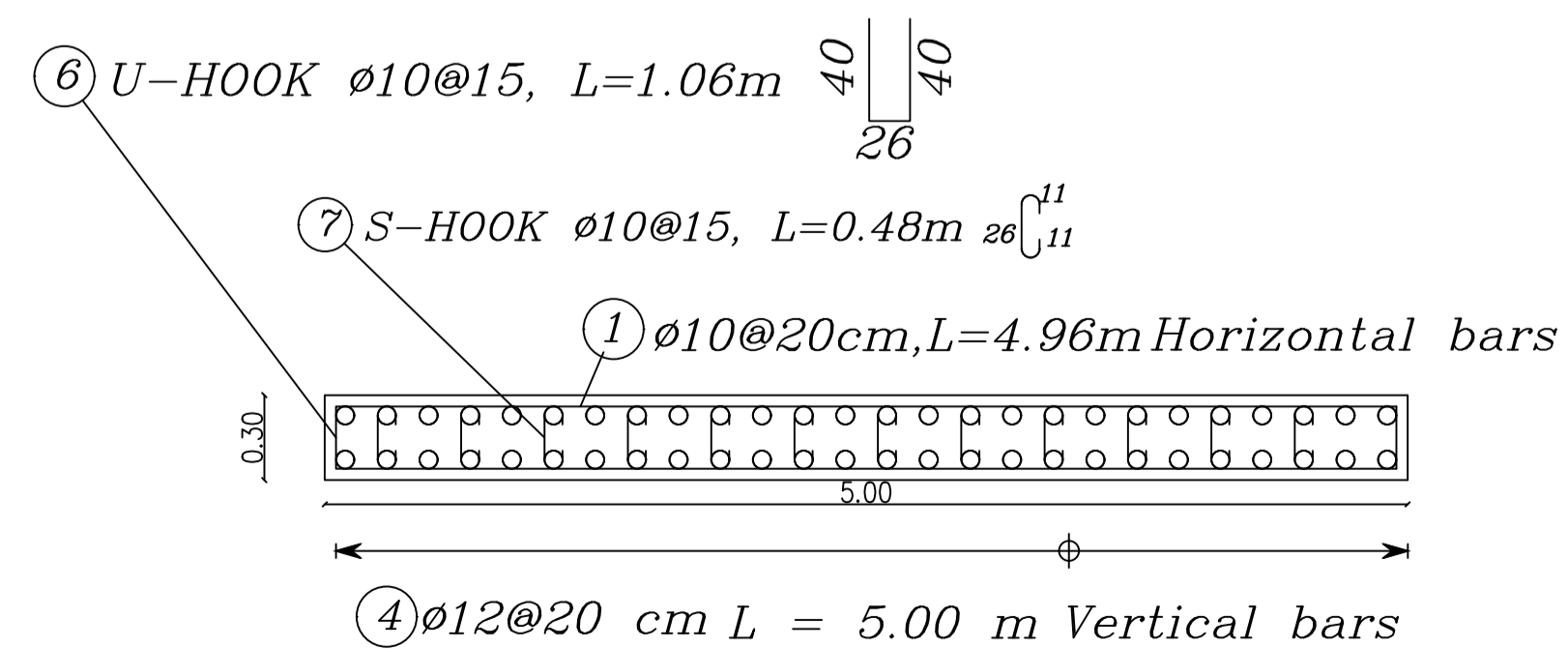
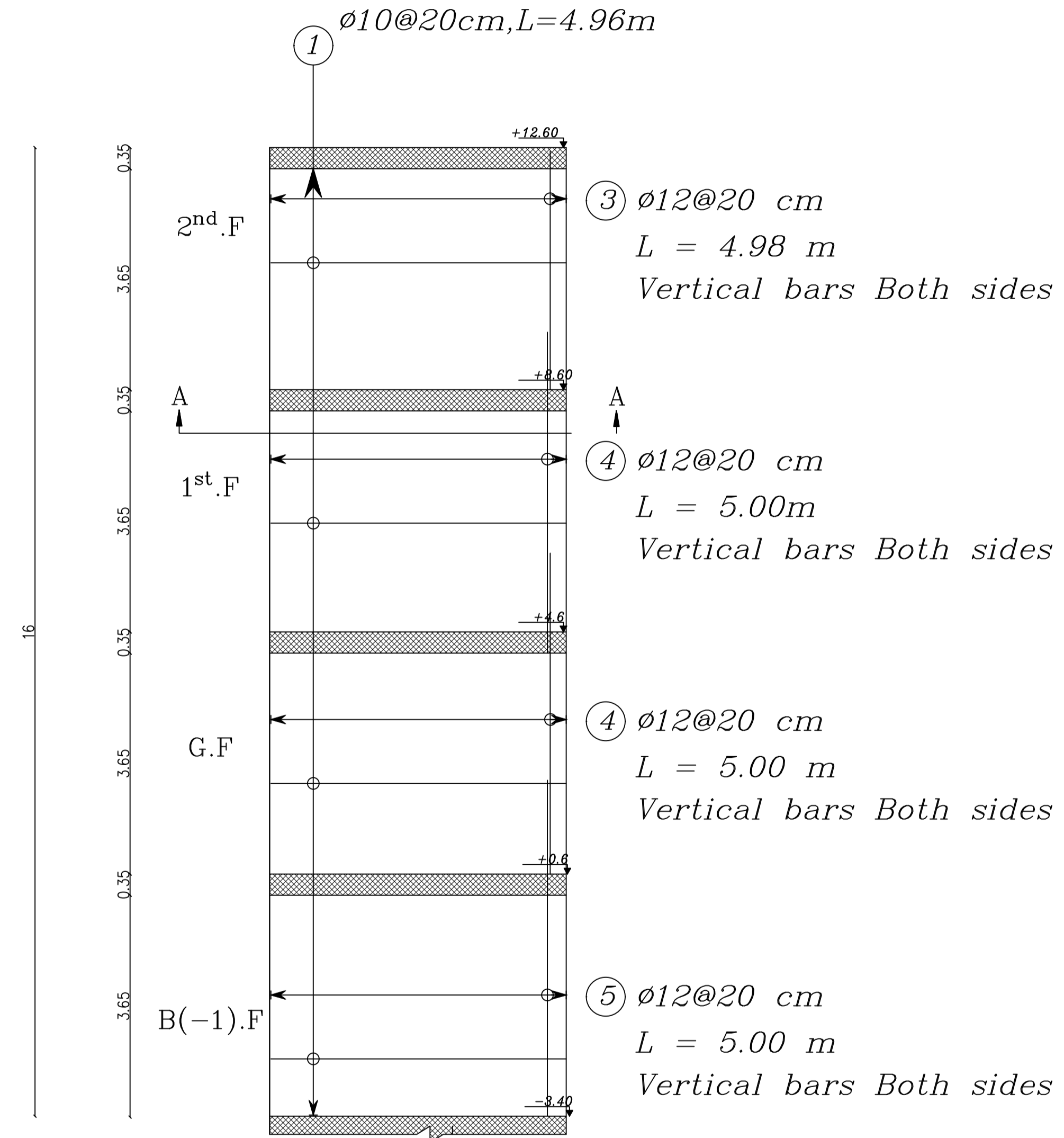
Hisham Shindy  
 Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S18	04/6/2024

S.W.11

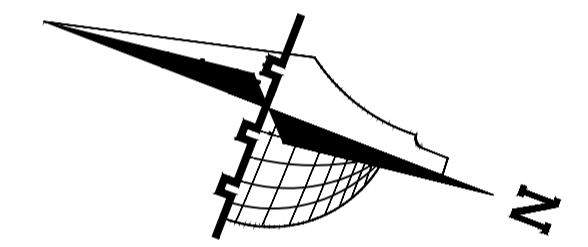


S.W.12



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering  
Graduation Project

Panorama Mall



Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materials	GRASS

DRAWING TITLE :

SHEAR WALL 11&12  
REINFORCEMENT

Supervisor

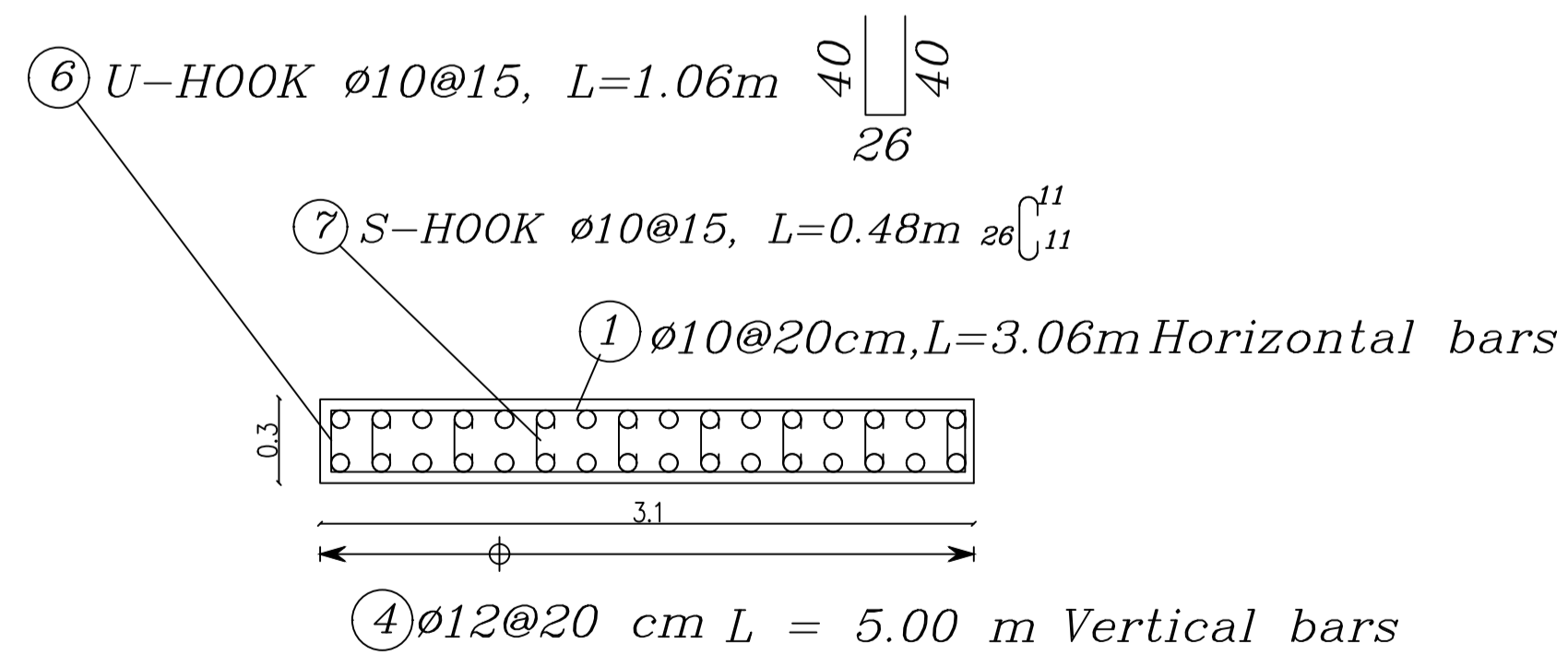
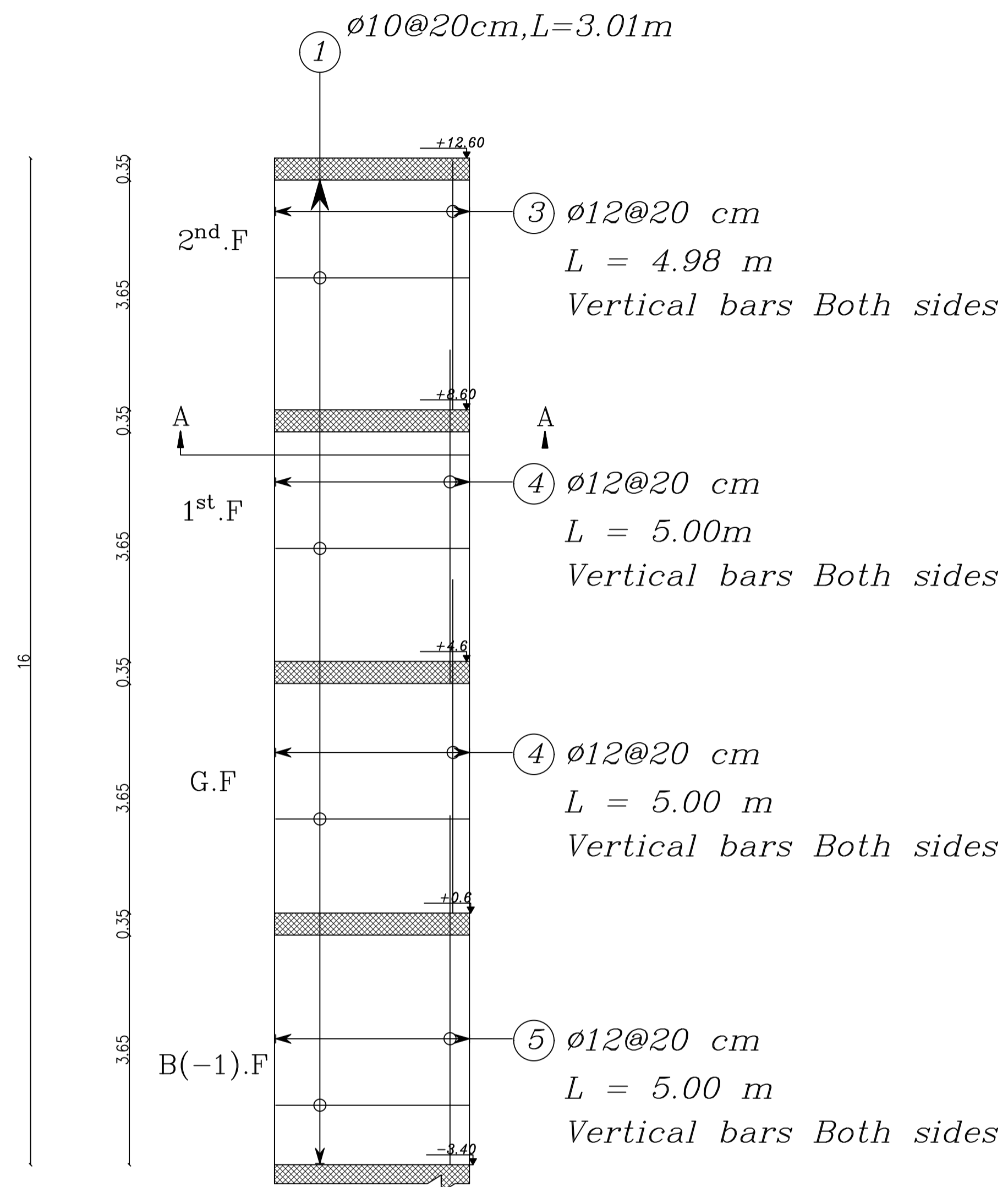
Dr. Nafeth  
Naesr aldeen

Done by :

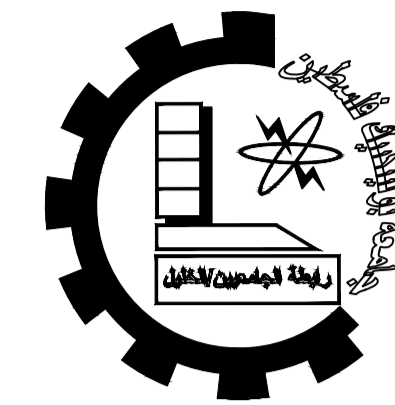
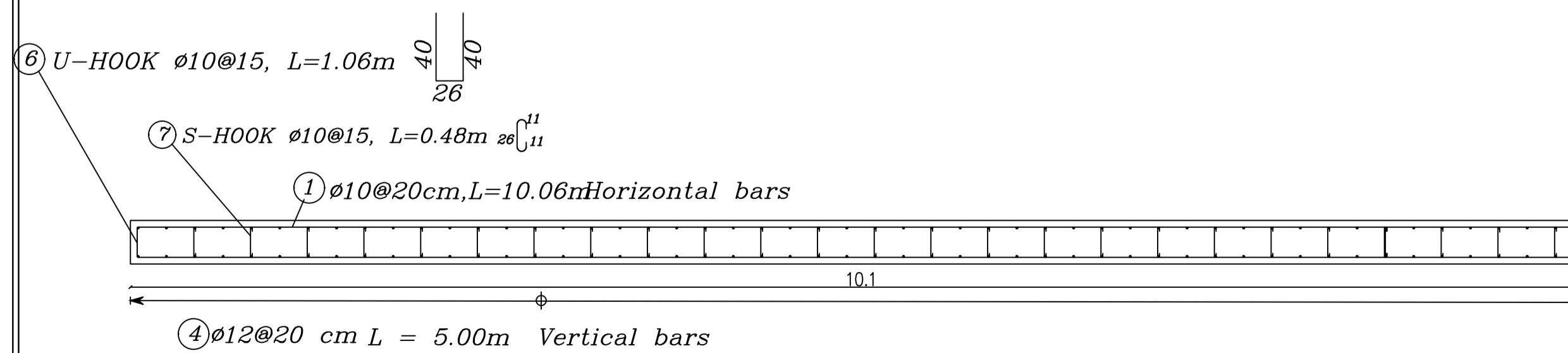
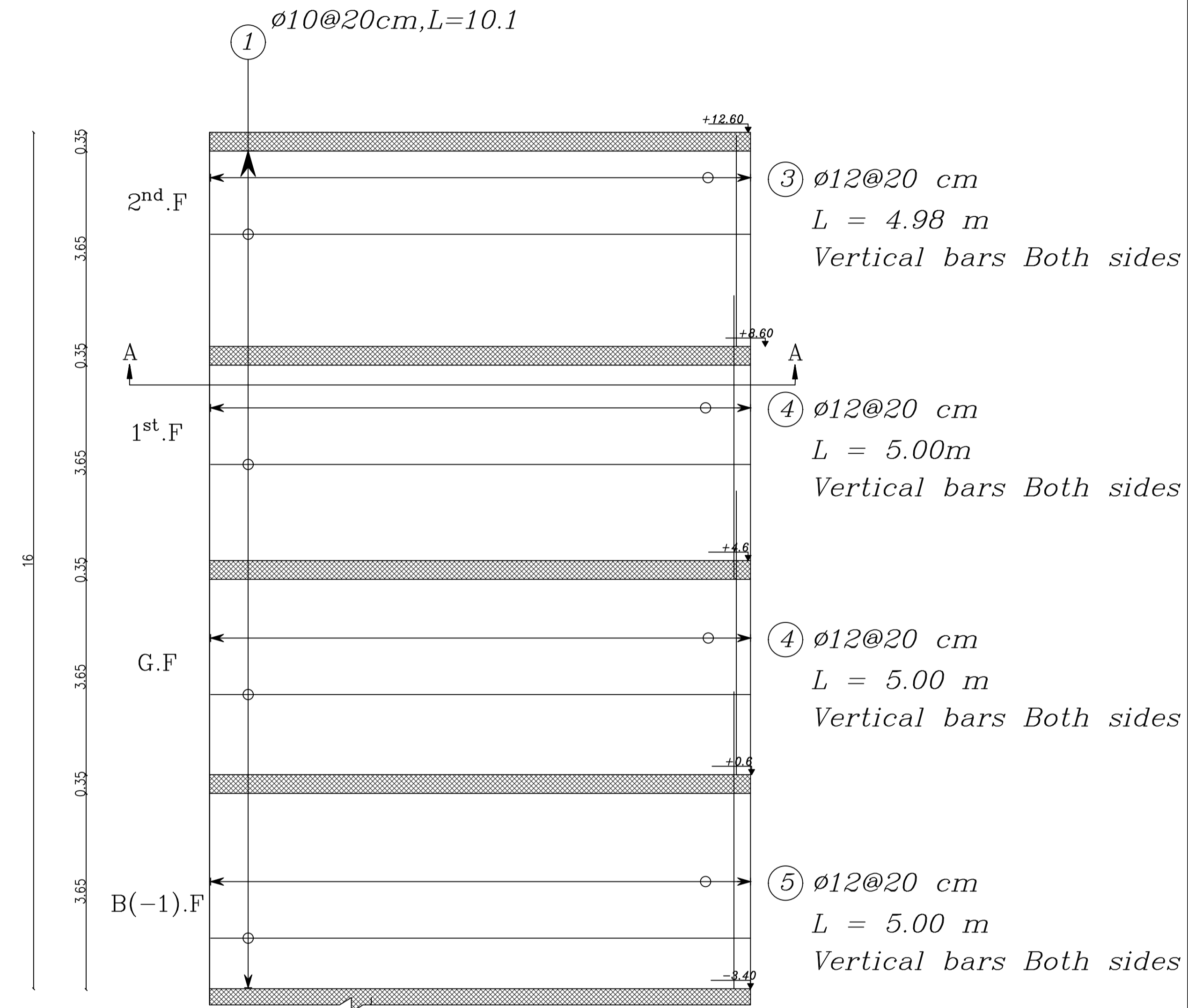
Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S19	04/6/2024

S.W.13

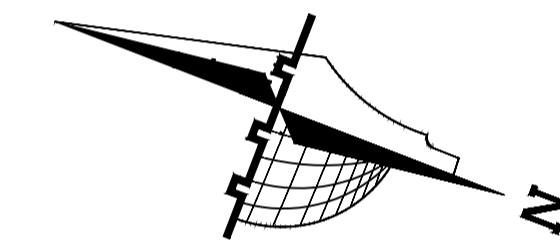


S.W.14

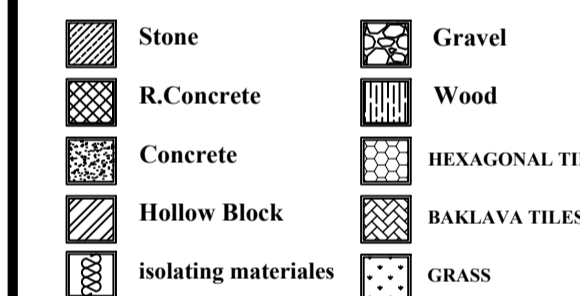


Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering  
Graduation Project

Panorama Mall



Legend :



DRAWING TITLE :

SHEAR WALL 13&14  
REINFORCEMENT

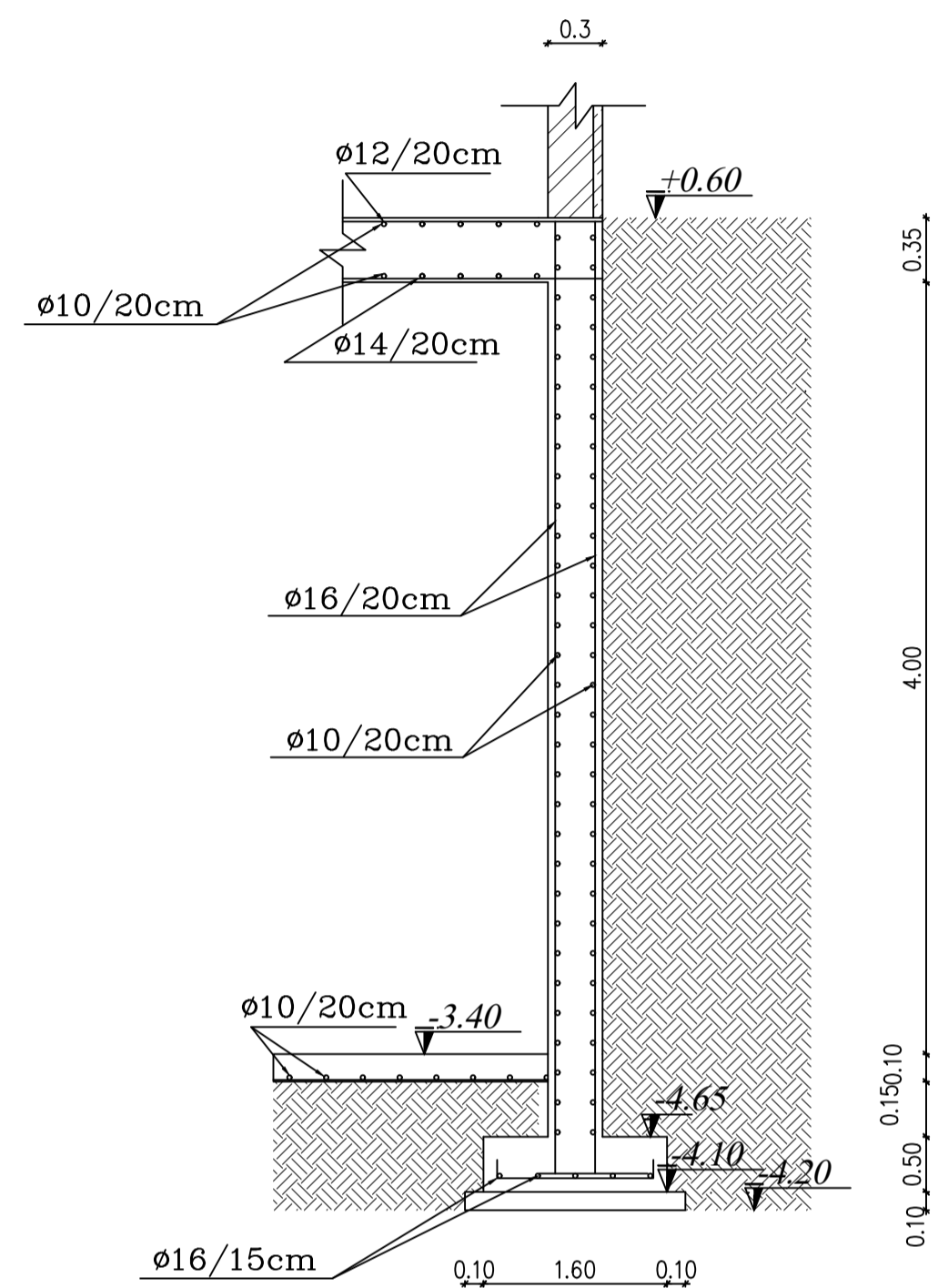
Supervisor

Dr. Nafeth  
Naesr aldeen

Done by :

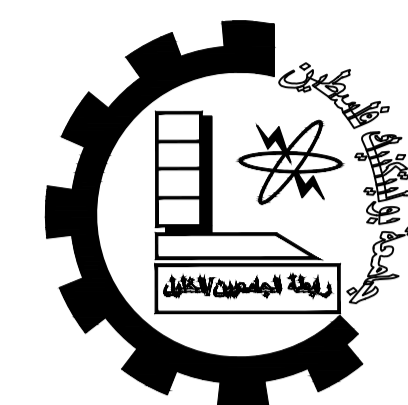
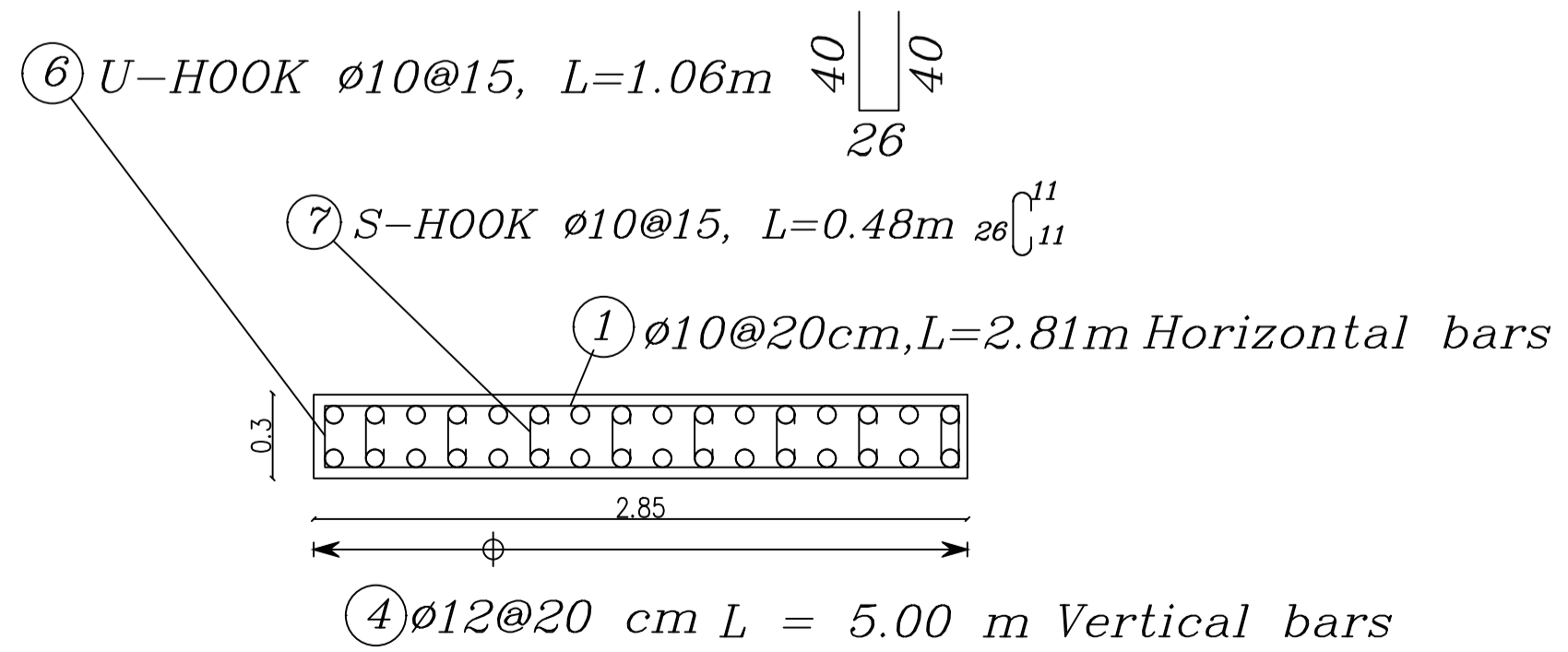
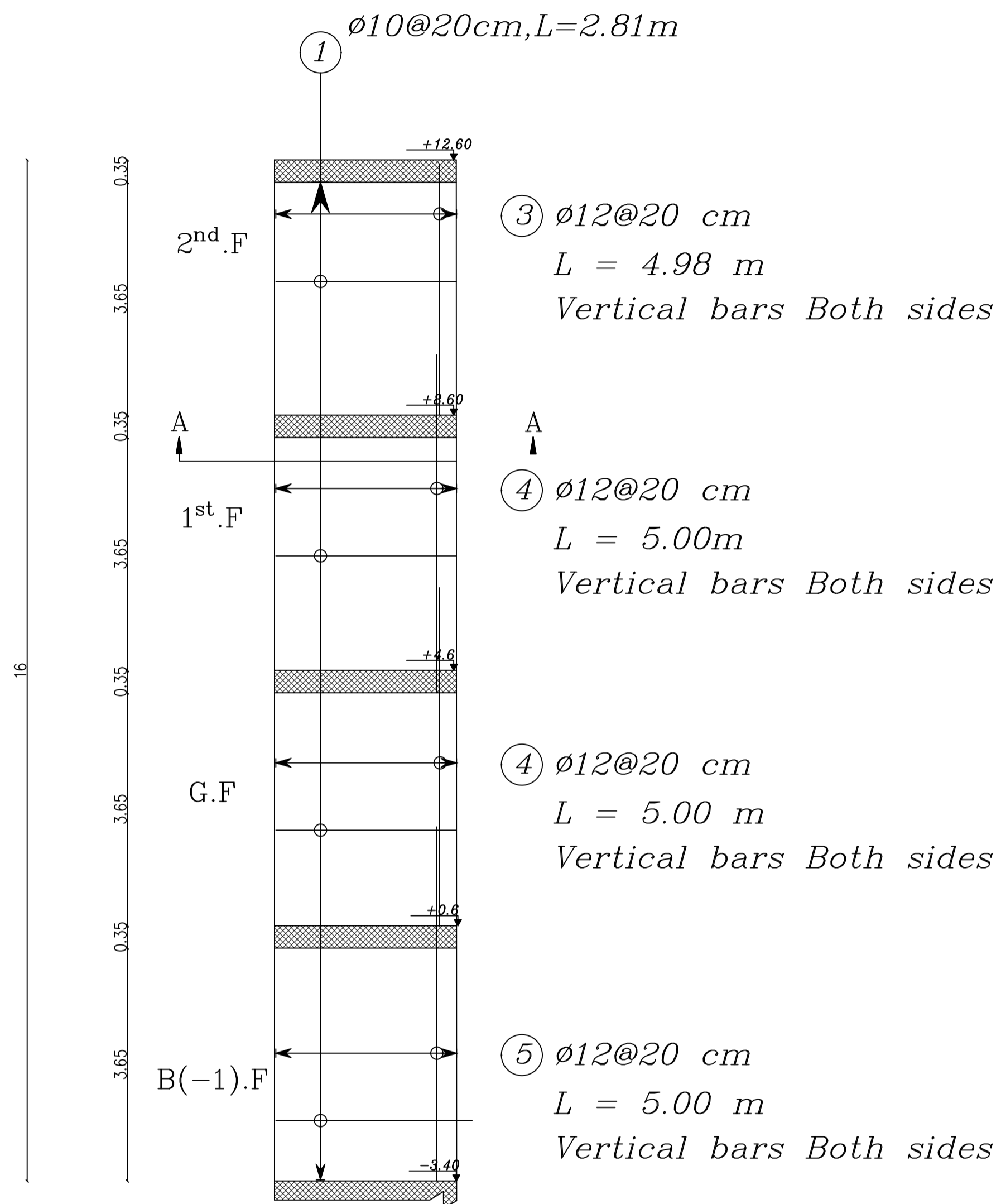
Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S20	04/6/2024



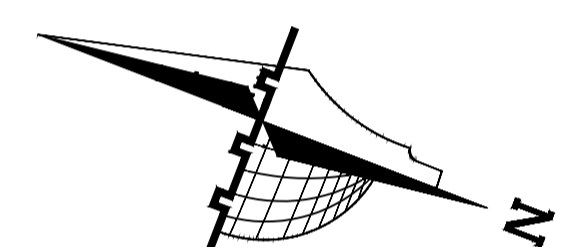
*B.W*  
SCALE 1:20

S.W.15



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering  
Graduation Project

Panorama Mall



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materiales
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

SHEAR WALL 15&BW  
REINFORCEMENT

Supervisor

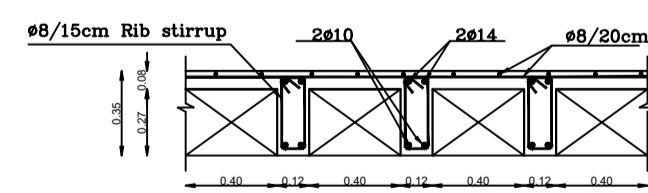
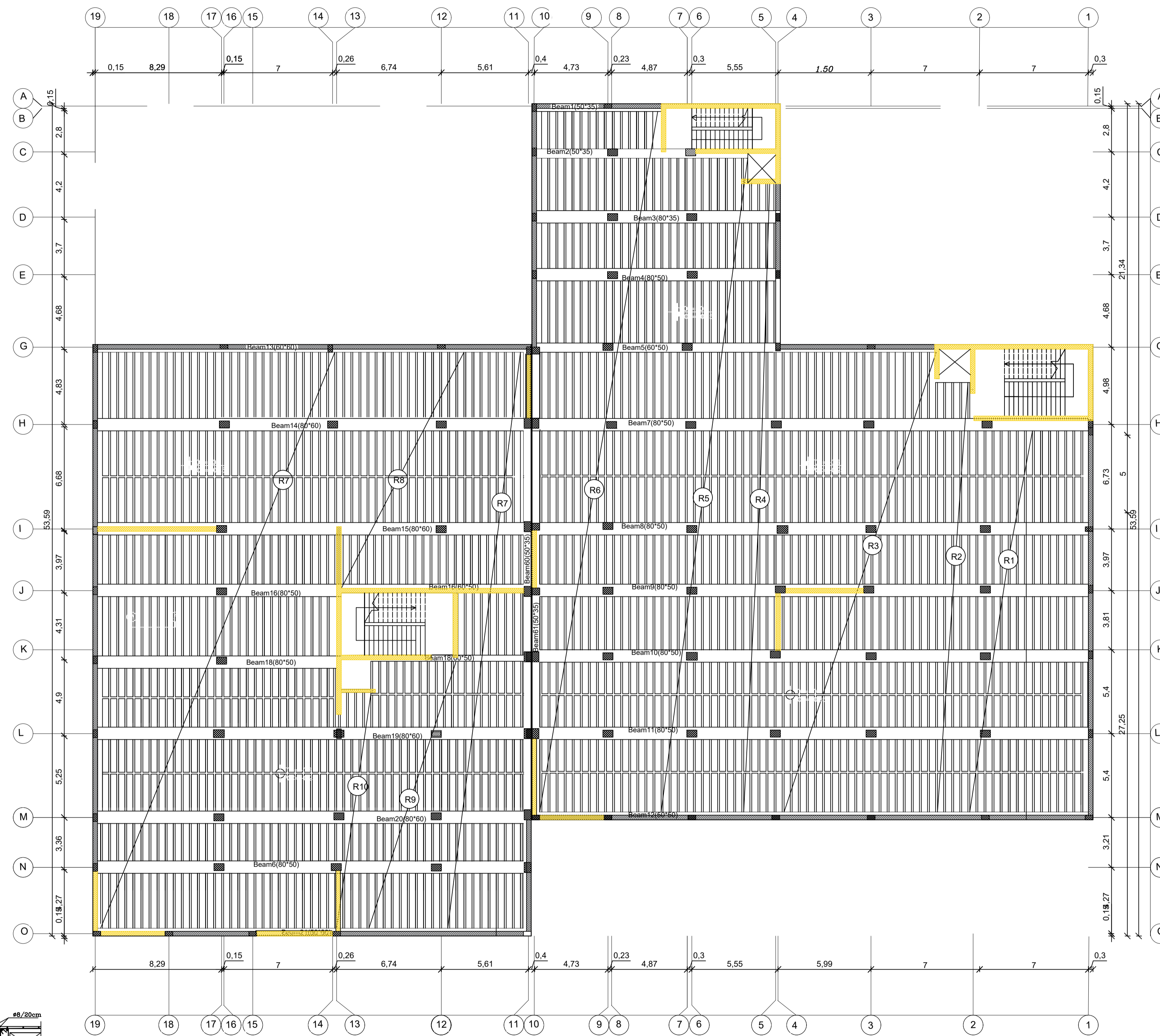
Dr. Nafeth  
Naesr aldeen

Done by :

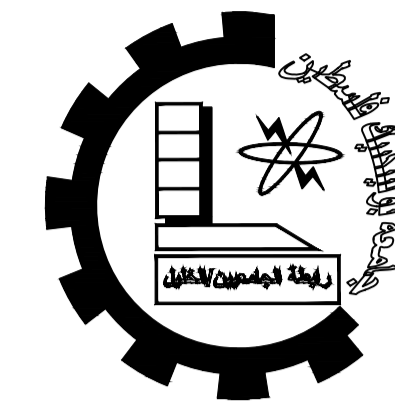
Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S21	04/6/2024

# SLAB OF basement FLOOR DISTRIBUTION OF RIBS

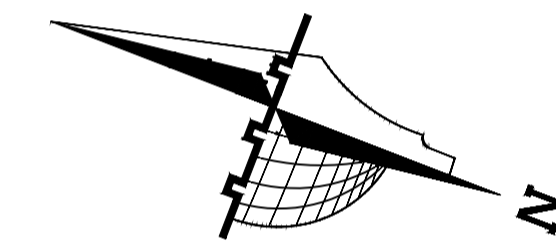


SECTION A-A  
SCALE 1/20



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering  
Graduation Project

Panorama Mall



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

Basement Floor Slab  
Distribution of Ribs

Supervisor

Dr. Nafeth  
Naesr aldeen

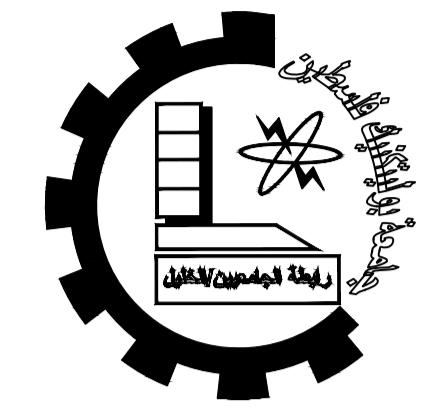
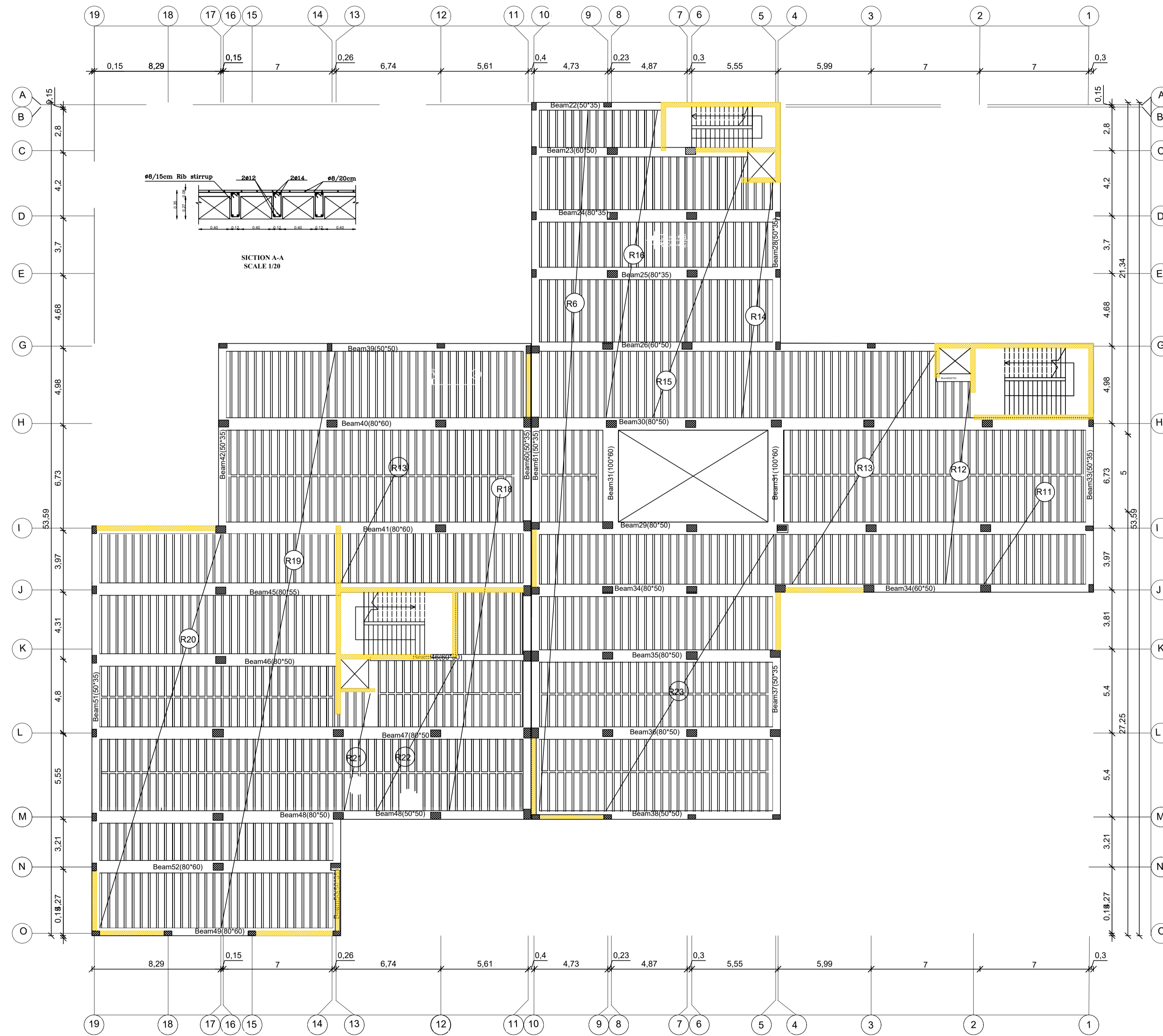
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S22	04/6/2024

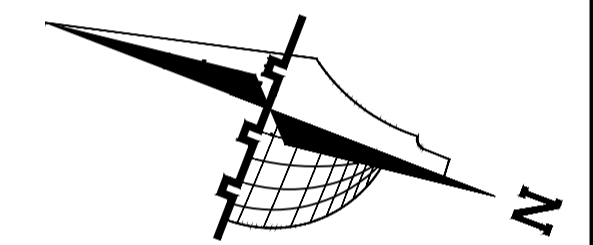


# SLAB OF GROUND FLOOR DISTRIBUTION OF RIBS



Palestine Polytechnic University  
College of Engineering  
Civil Engineering Department  
Civil Engineering  
Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

### DRAWING TITLE :

Ground Floor Slab  
Distribution of Ribs

### Supervisor

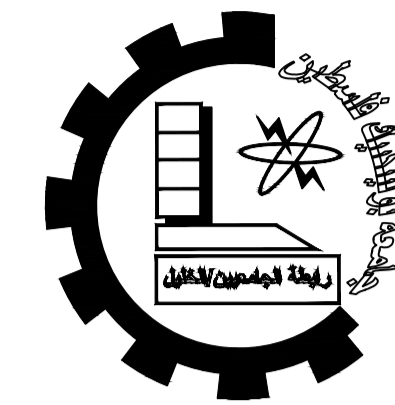
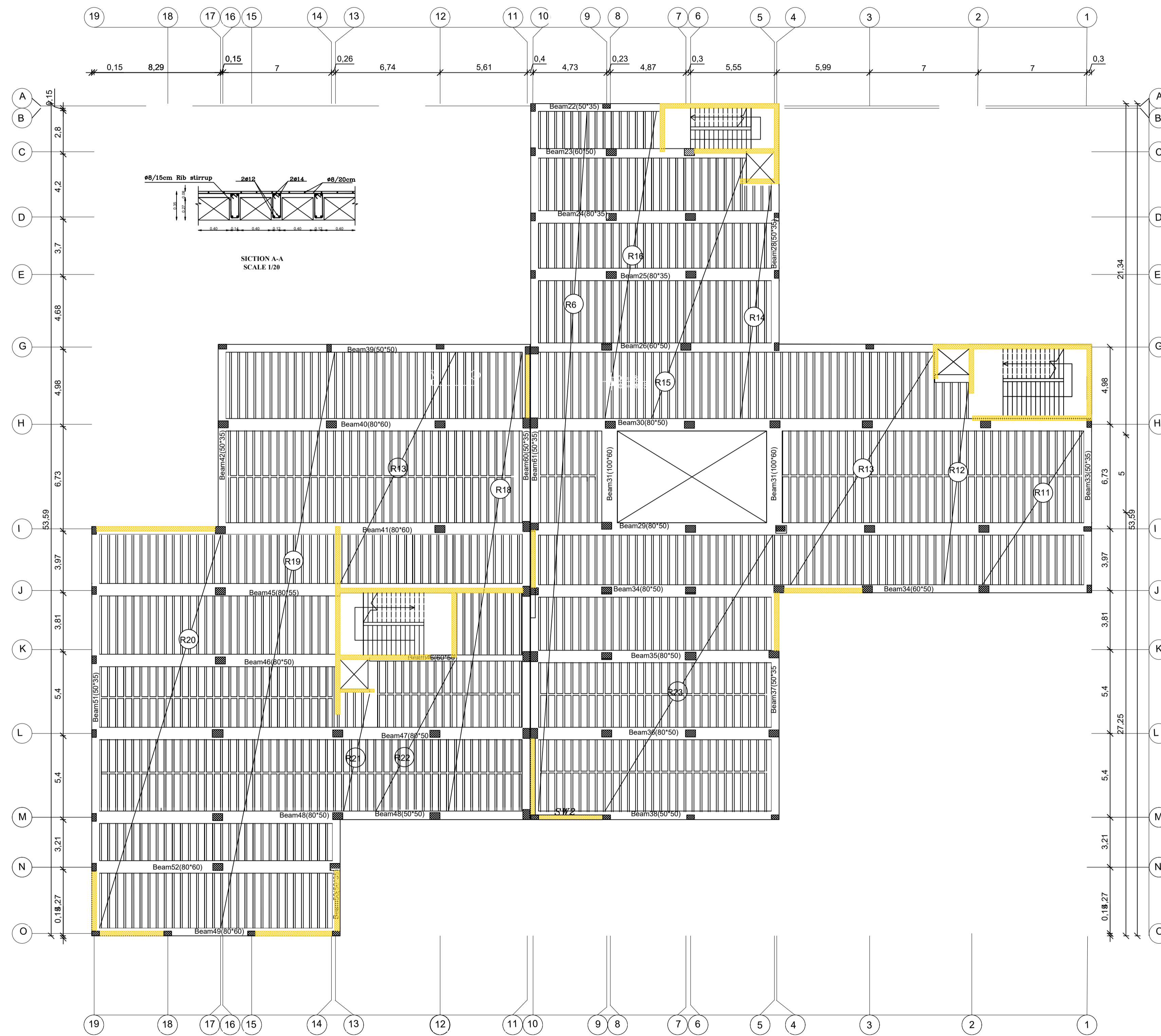
Dr. Nafeth  
Naesr aldeen

### Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S24	04/6/2024

# SLAP OF 1st FLOOR DISTRIBUTION OF RIBS



Palestine Polytechnic University

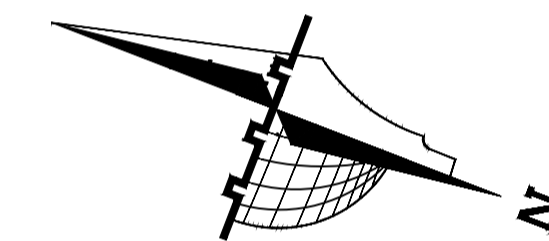
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

### DRAWING TITLE :

SLAP OF 1st FLOOR  
DISTRIBUTION OF RIBS

### Supervisor

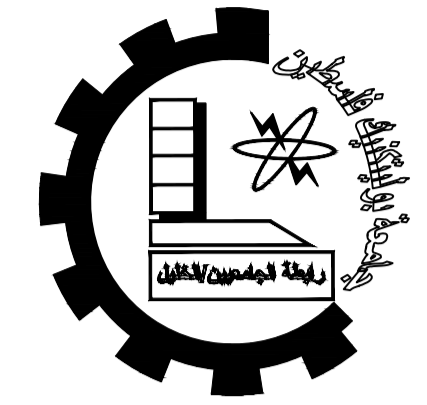
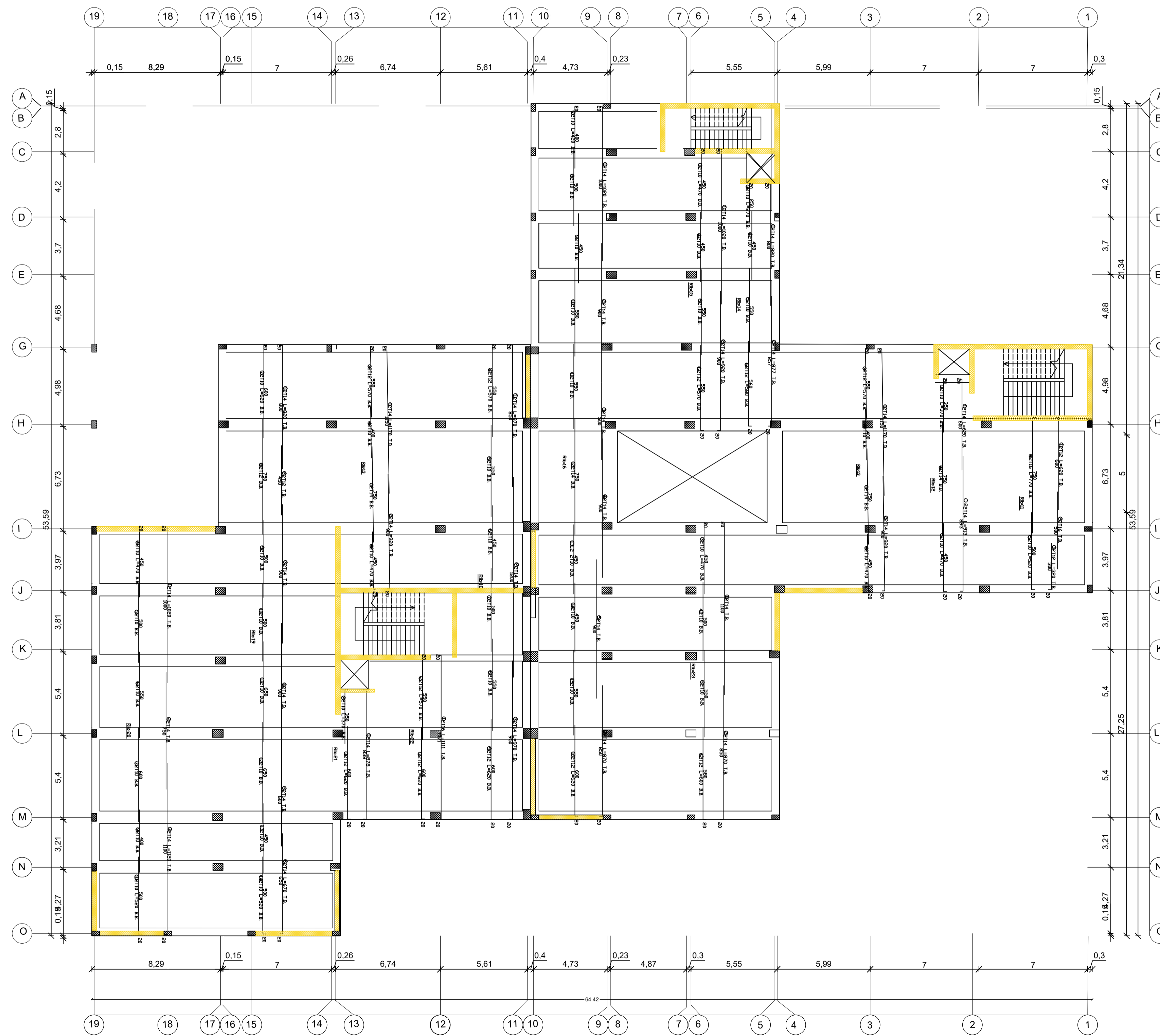
Dr. Nafeth  
Naesr aldeen

### Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S25	04/6/2024

SLAP OF G+1st+floor  
Reinf.



Palestine Polytechnic University

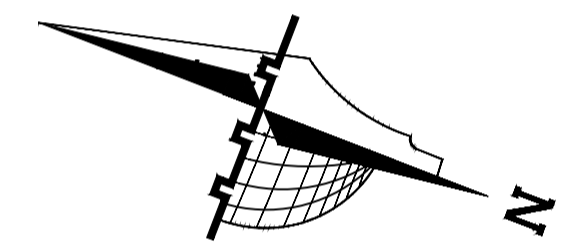
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

Panorama Mall



Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- insulating materials
- GRASS

DRAWING TITLE :

G+1St slab rein.

Supervisor

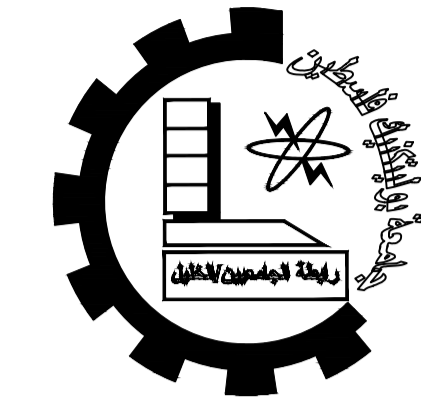
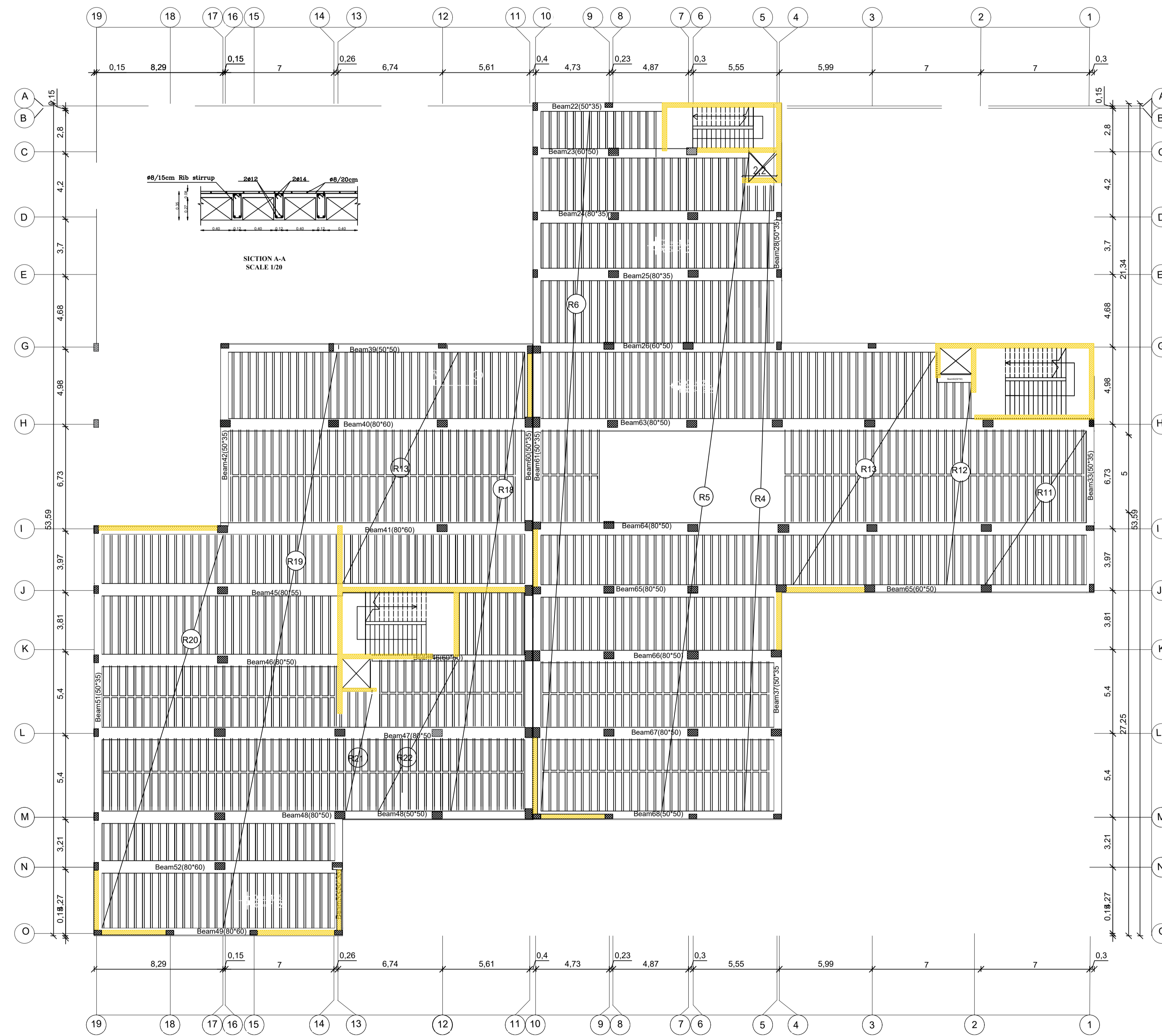
*Dr. Nafeth  
Naesr aldeen*

Done by :

*Hisham Shindy  
Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/200	S26	04/6/2024

# SLAP OF 2nd FLOOR DISTRIBUTION OF RIBS



Palestine Polytechnic University

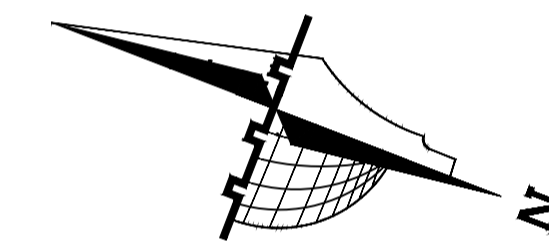
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

### DRAWING TITLE :

SLAP OF 2nd FLOOR  
DISTRIBUTION OF RIBS

### Supervisor

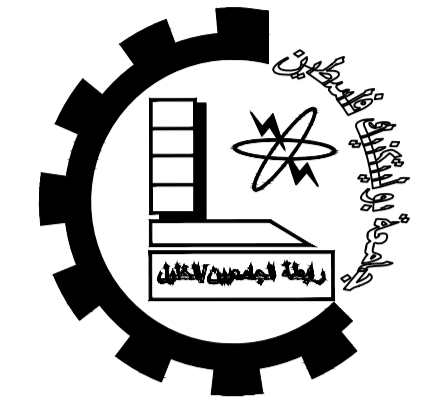
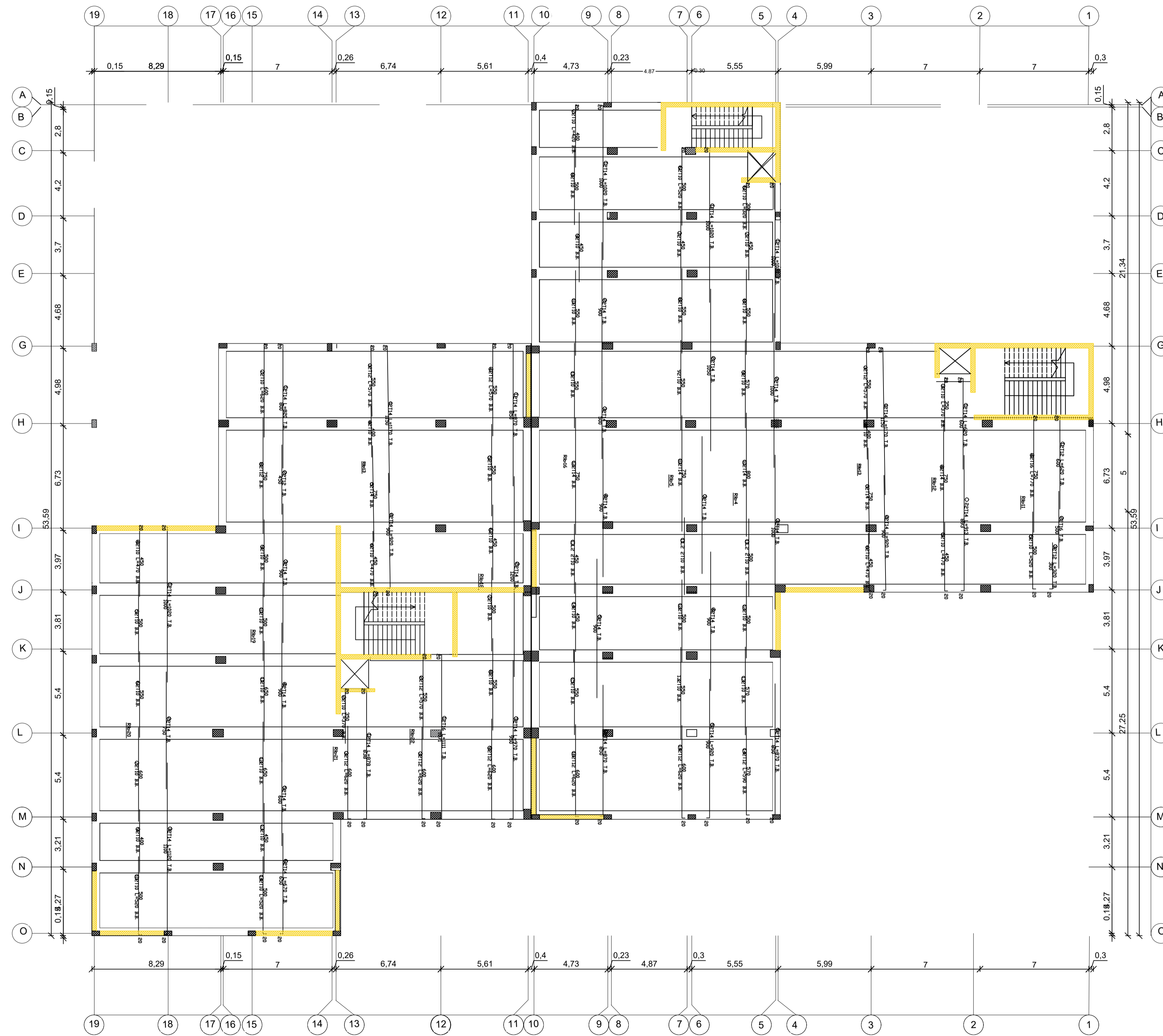
Dr. Nafeth  
Naesr aldeen

### Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S27	04/6/2024

SLAP OF 2ed floor  
Reinf.



Palestine Polytechnic University

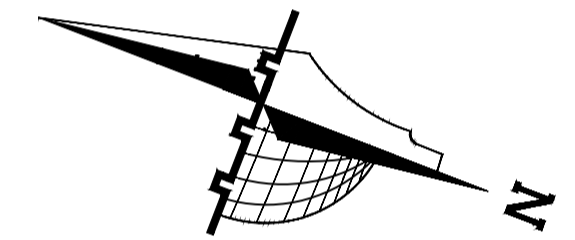
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

Panorama Mall



Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

2ed slab rein.

Supervisor

*Dr. Nafeth  
Naesr aldeen*

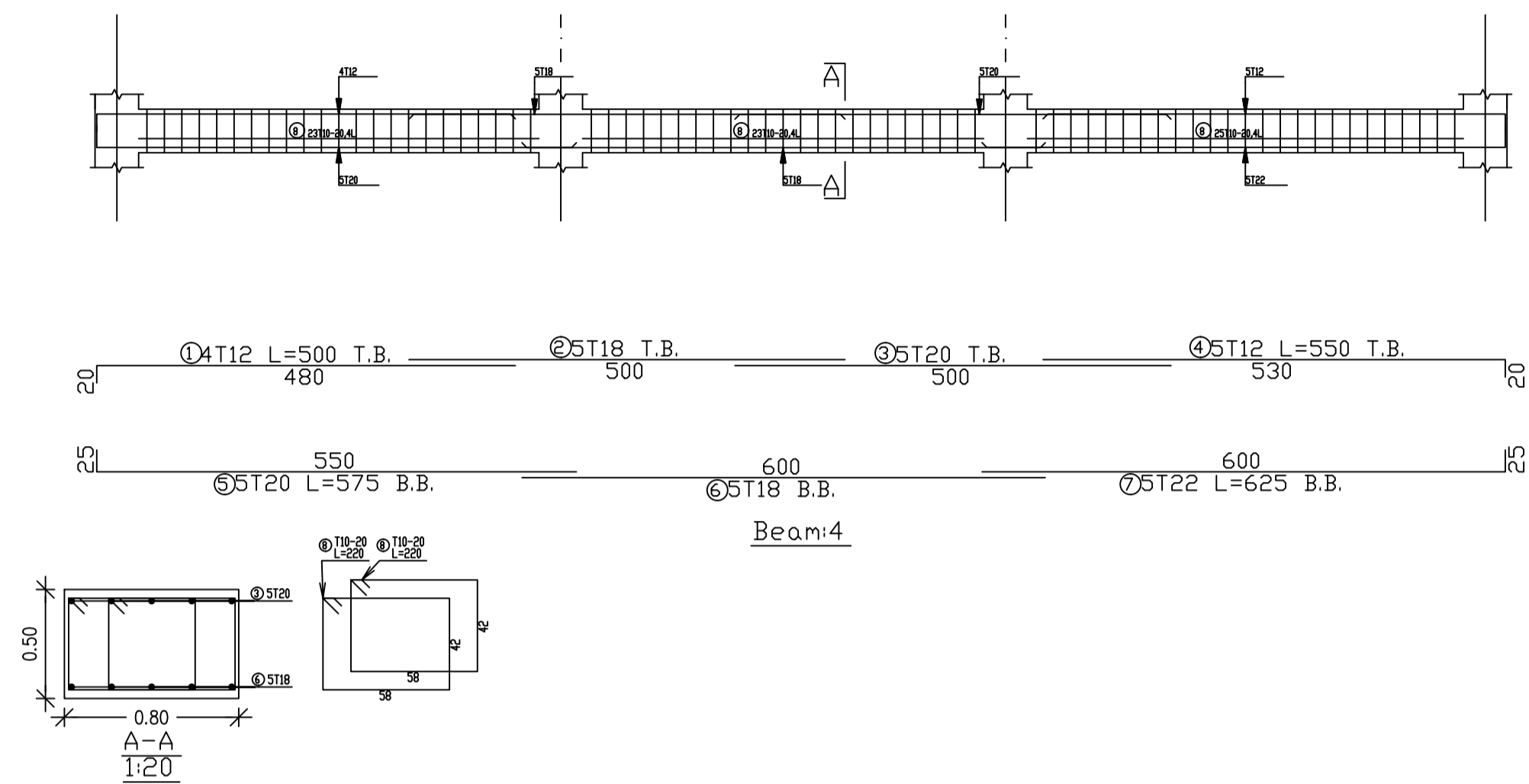
Done by :

*Hisham Shindy  
Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/200	S28	04/6/2024

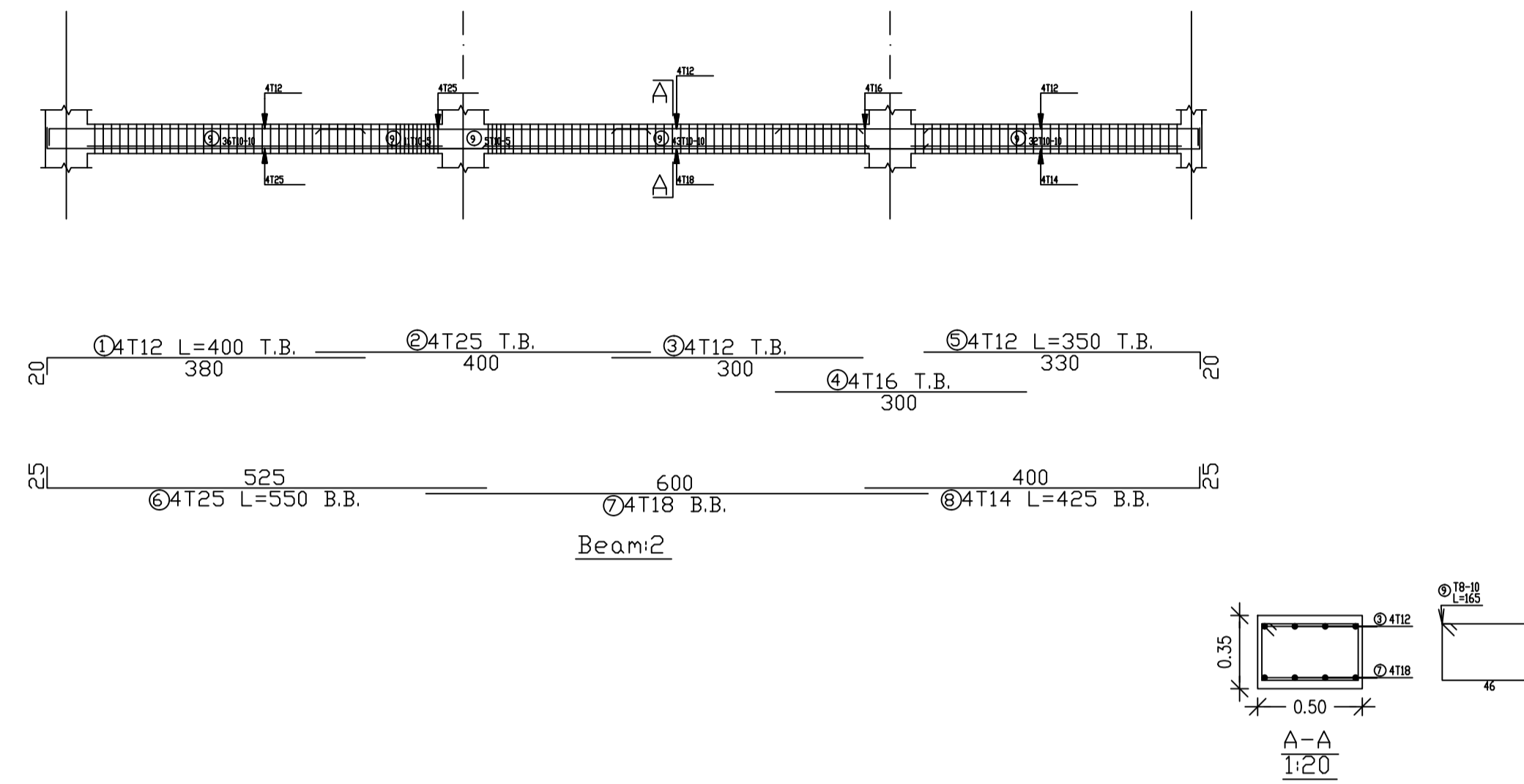
# BEAM 4

SCALE 1/100



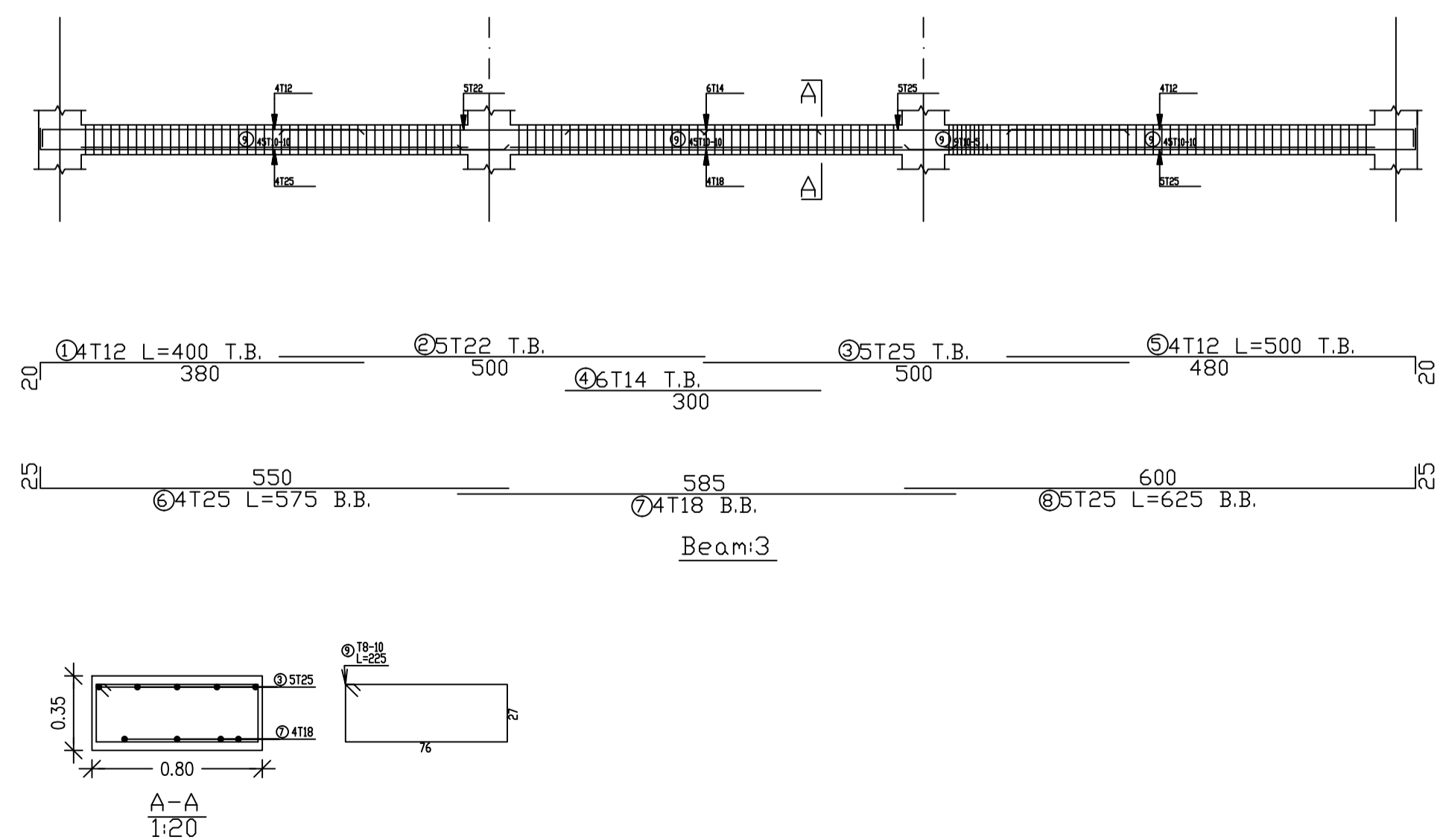
# BEAM 2

SCALE 1/100



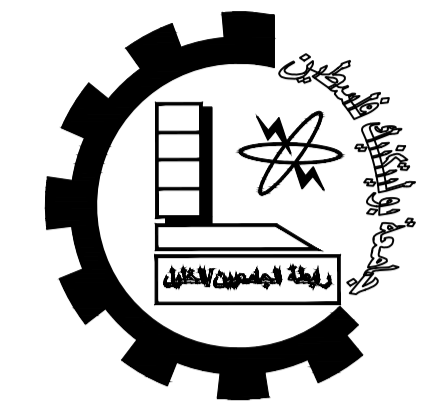
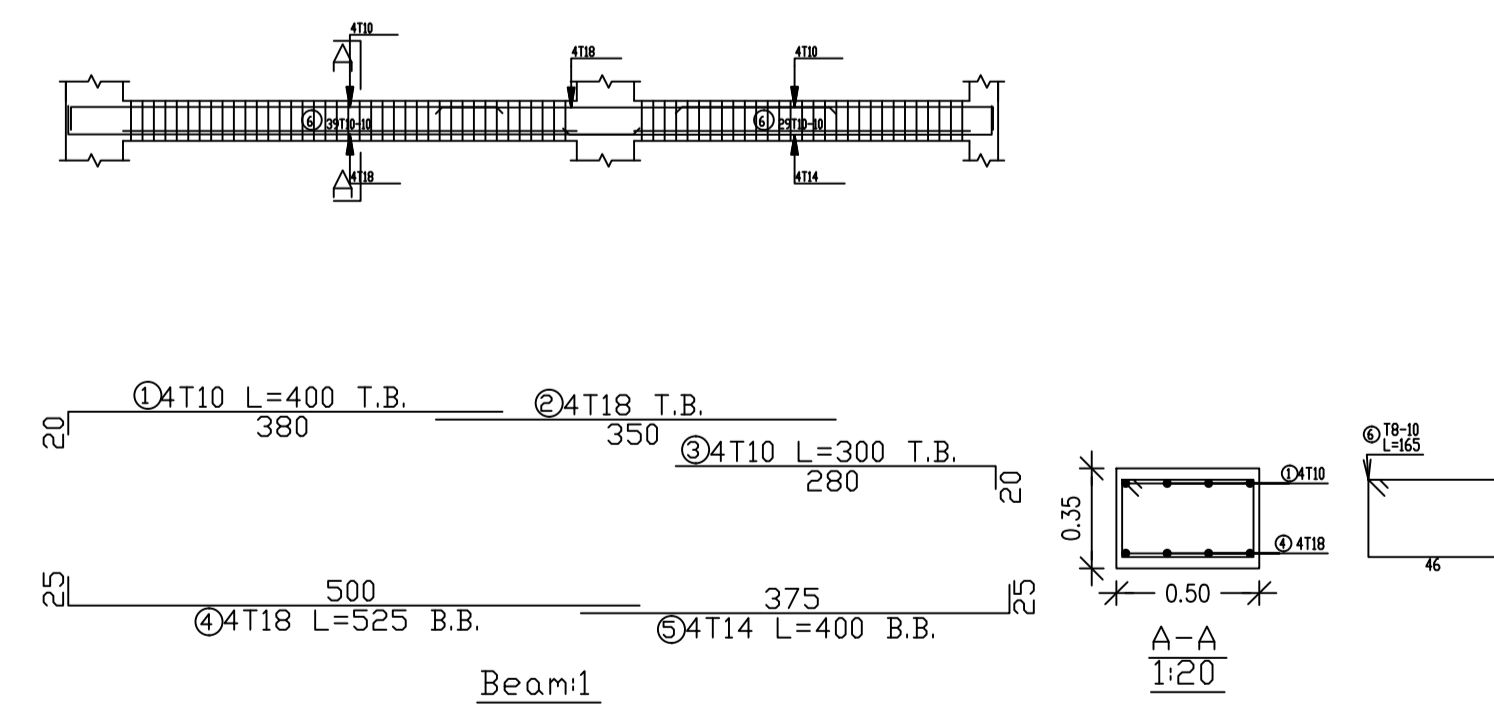
# BEAM 3

SCALE 1/100



# BEAM 1

SCALE 1/100



Palestine Polytechnic University

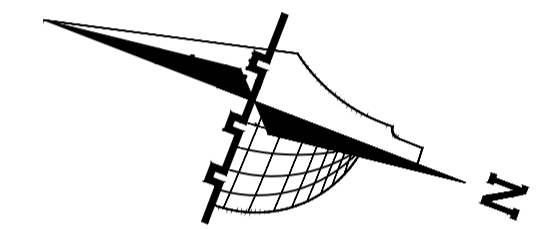
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materies
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 1&2&3&4

Supervisor

Dr. Nafeth Naesr aldeen

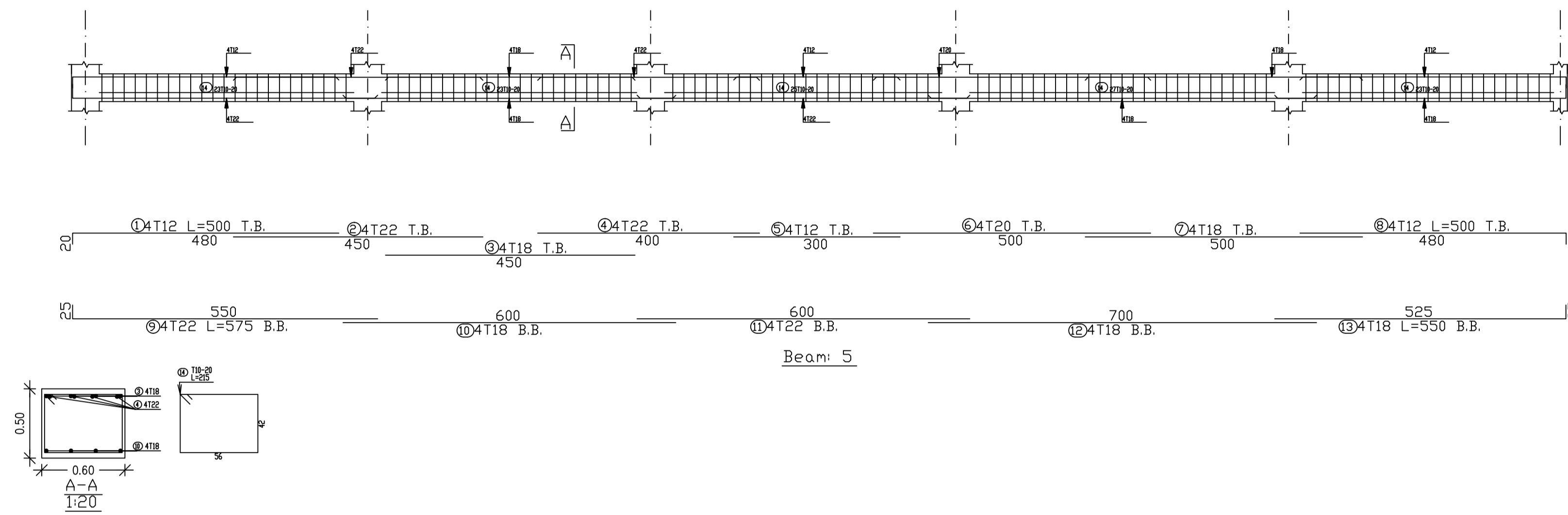
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S29	04/6/2024

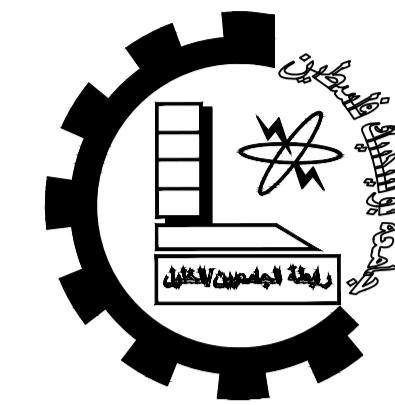
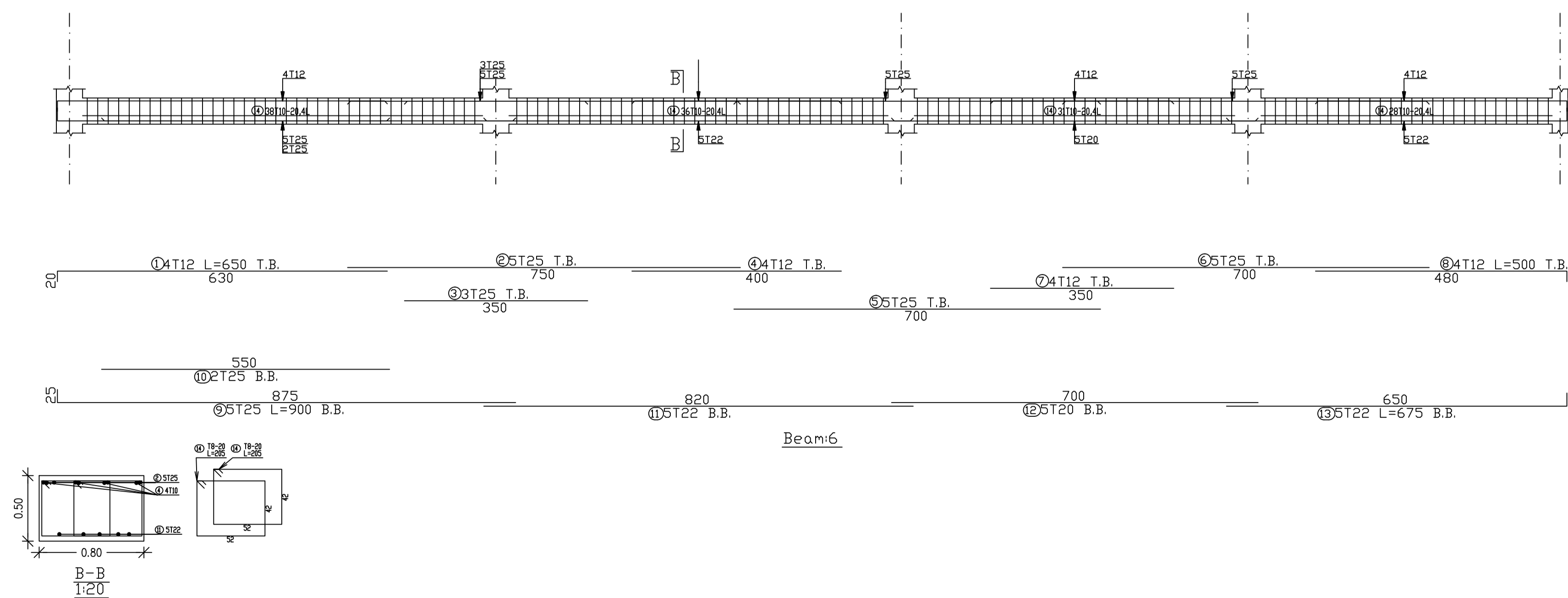
# BEAM 5

## SCALE 1/100



# BEAM 6

## SCALE 1/100



Palestine Polytechnic University

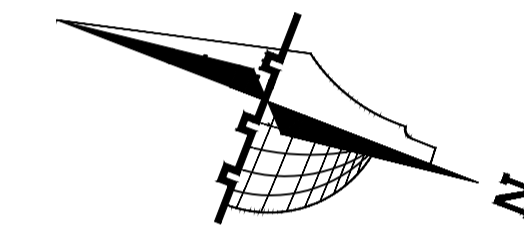
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 6&5

Supervisor

Dr. Nafeth Naesr aldeen

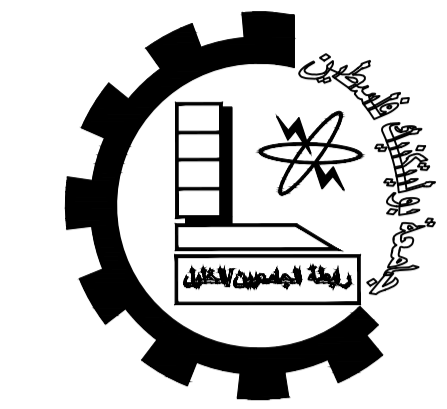
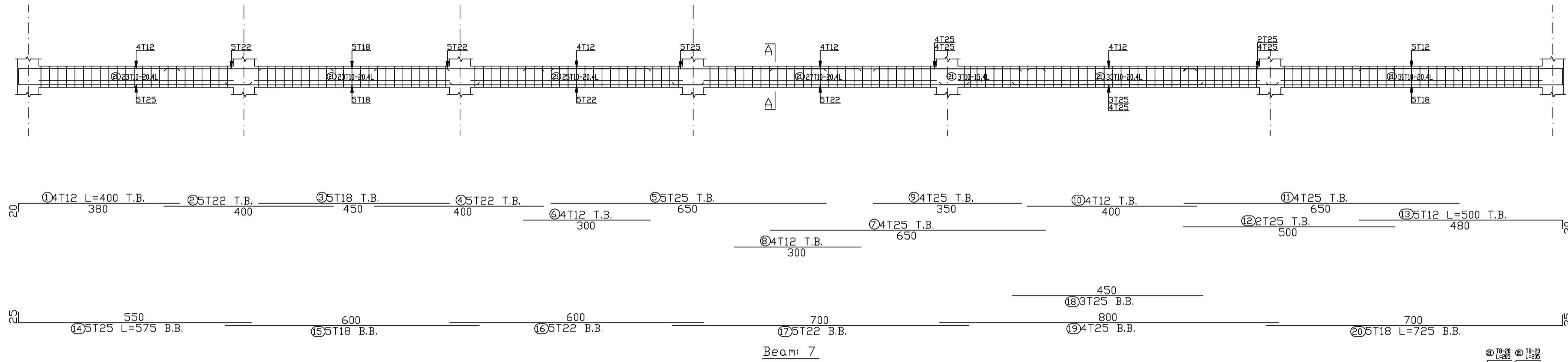
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S30	04/06/2024

# BEAM 7

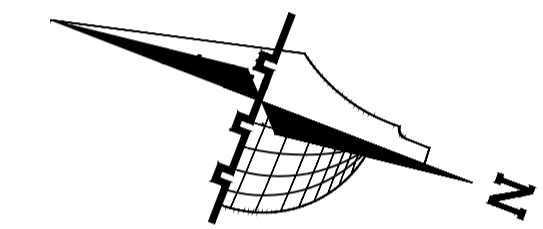
## SCALE 1/100



Palestine Polytechnic University  
 Engineering College  
 Civil Department  
 Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 7&8

Supervisor

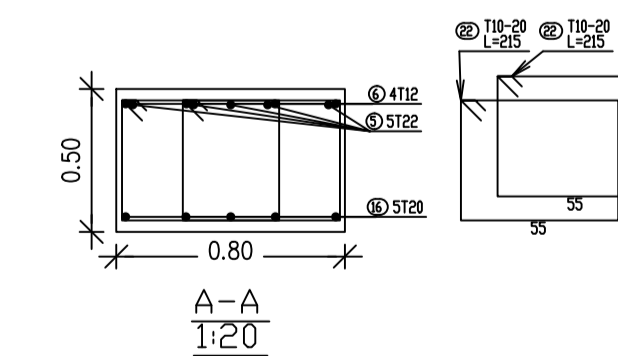
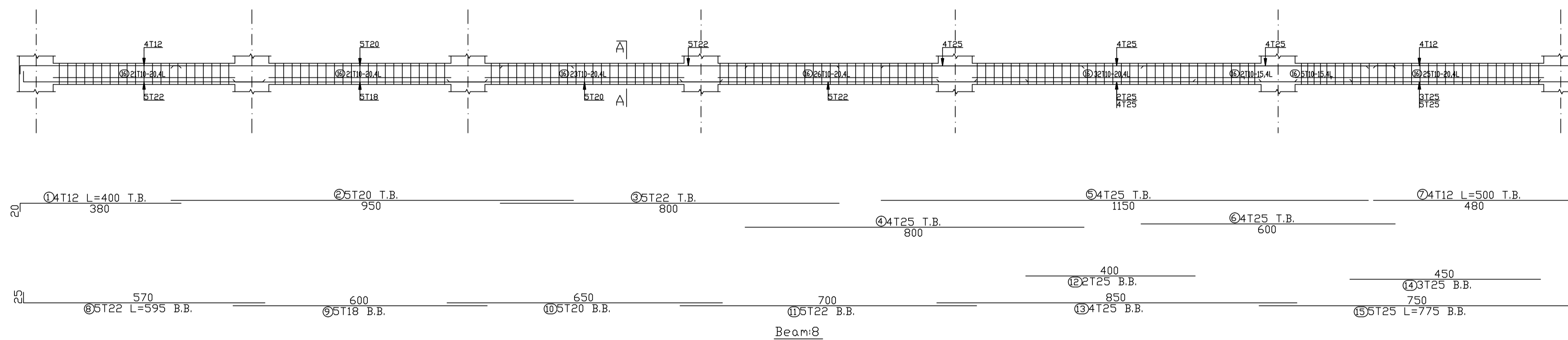
Dr. Nafeth Naesr aldeen

Done by :

Hisham Shindy  
 Ahmad Hajaj

# BEAM 8

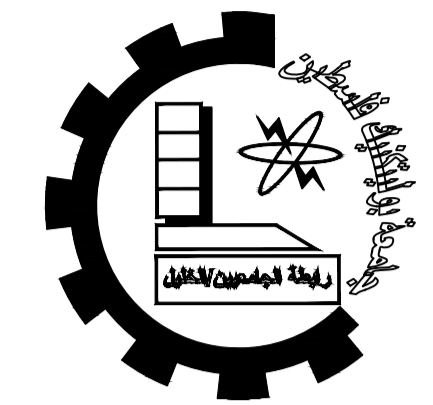
## SCALE 1/100



SCALE	No. of DRAW	DATE
1/100	S31	04/06/2024

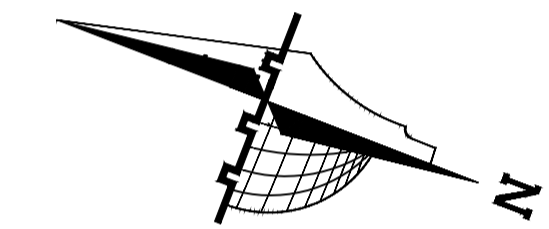
# BEAM 9

## SCALE 1/100



Palestine Polytechnic University  
 Engineering College  
 Civil Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 10&9

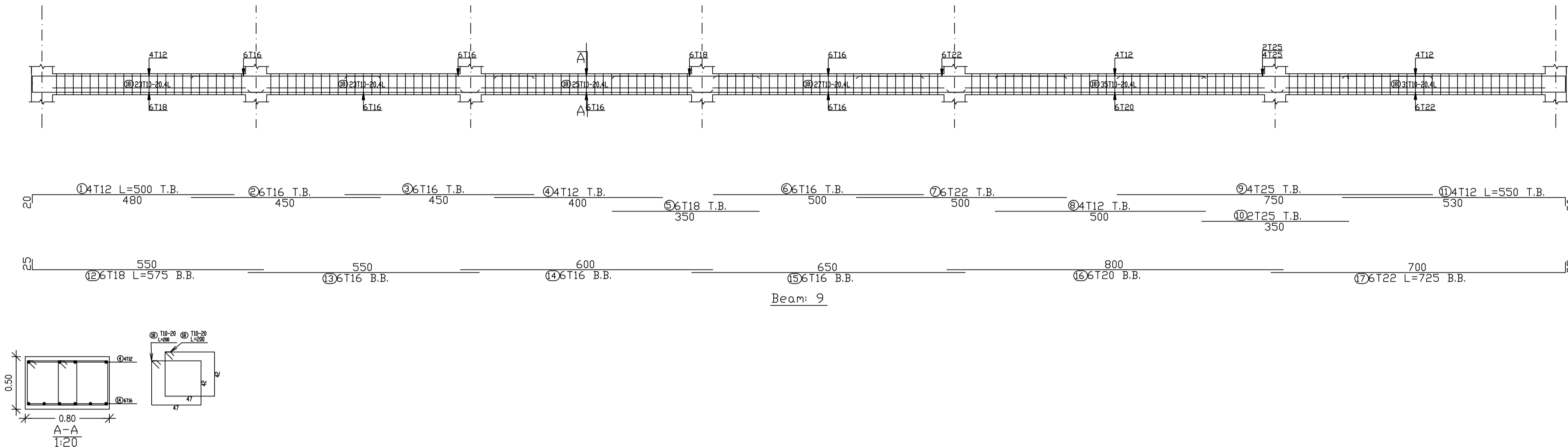
Supervisor

Dr. Nafeth Naesr aldeen

Done by :

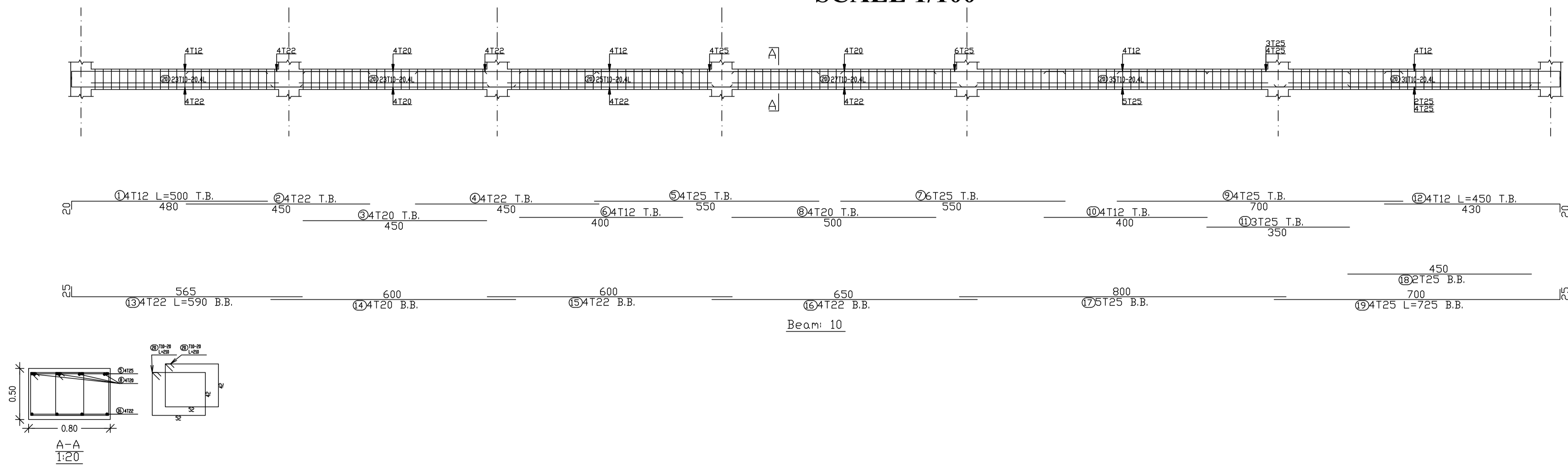
Hisham Shindy  
 Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S32	04/06/2024



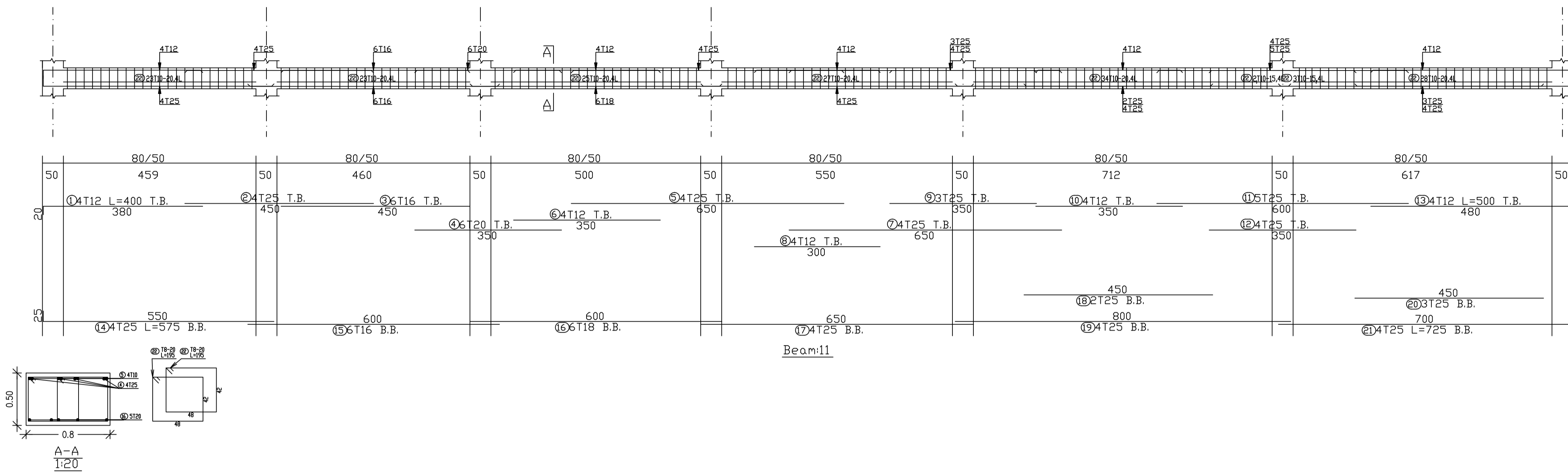
# BEAM 10

## SCALE 1/100



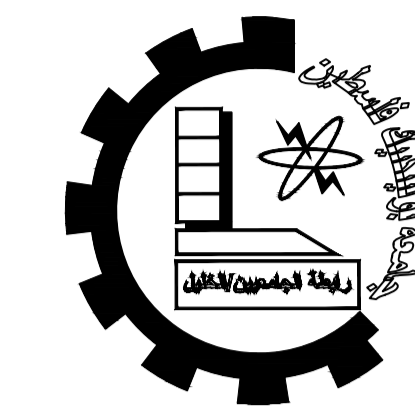
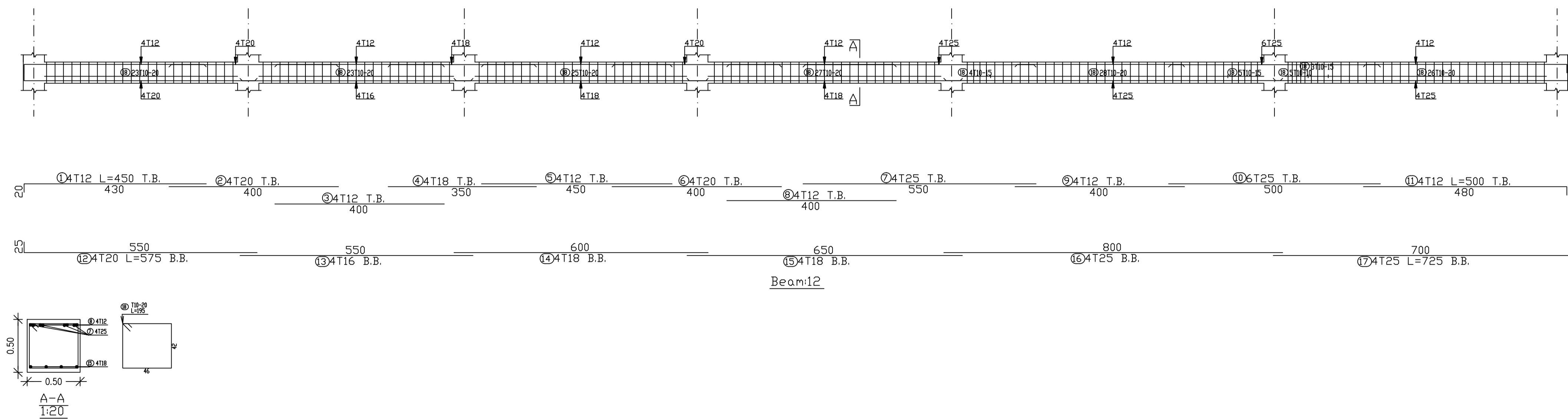
# BEAM 11

SCALE 1/100



# BEAM 12

SCALE 1/100



Palestine Polytechnic University

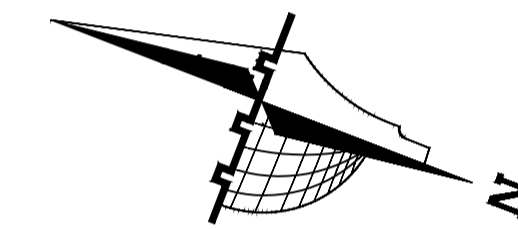
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 11&12

Supervisor

Dr. Nafeth Naesr aldeen

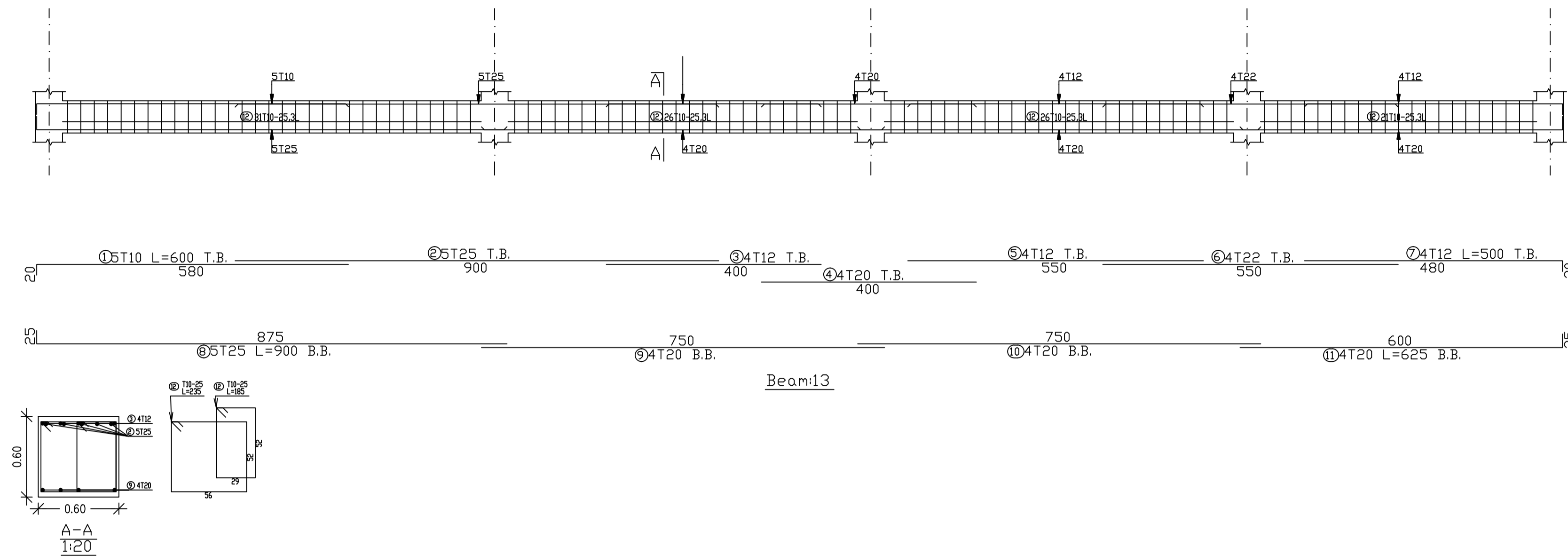
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S33	04/06/2024

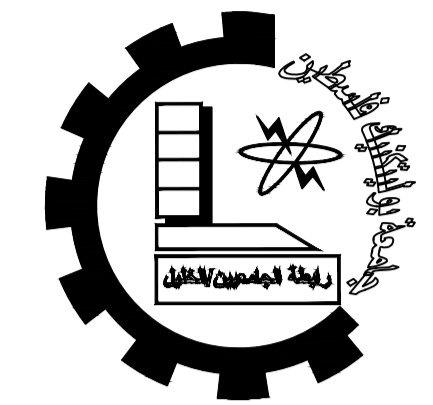
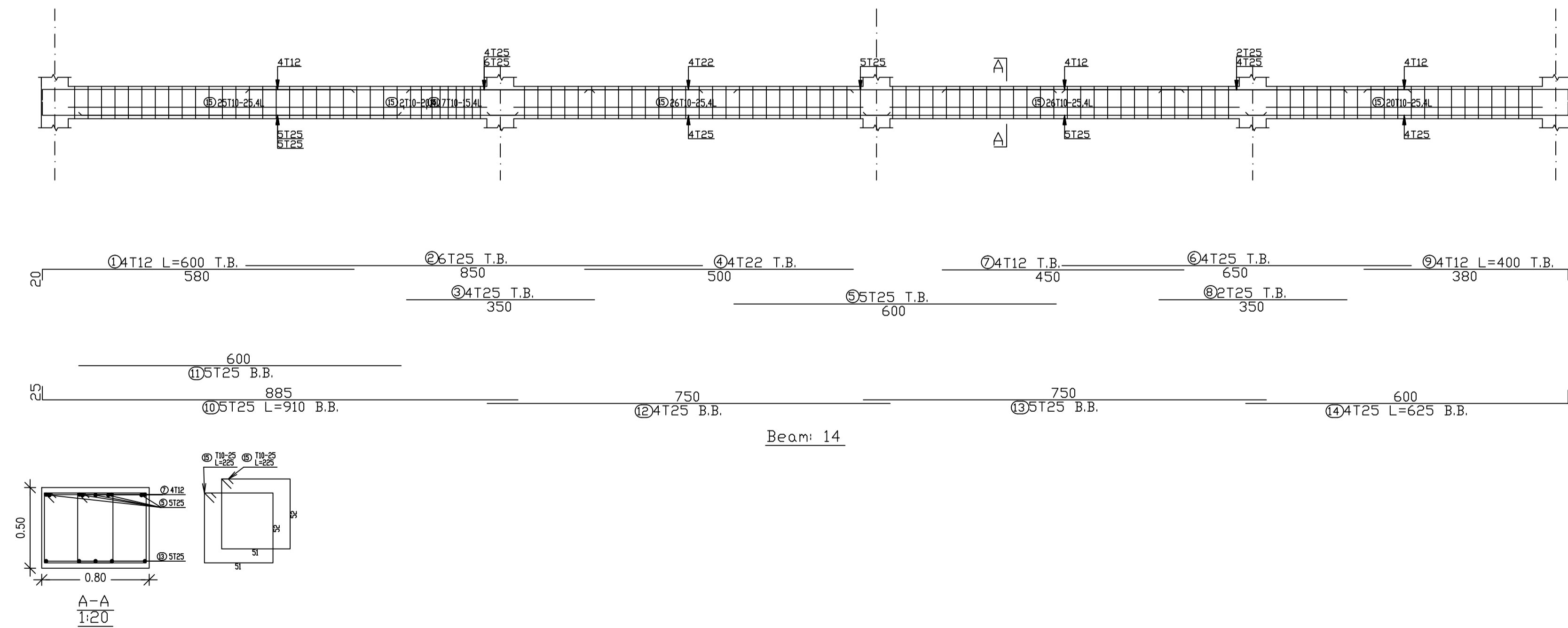
# BEAM 13

SCALE 1/100



# BEAM 14

SCALE 1/100



Palestine Polytechnic University

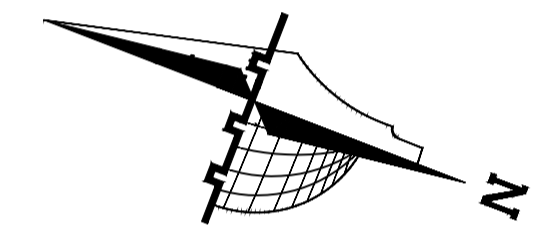
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 13&14

Supervisor

Dr. Nafeth Naesr aldeen

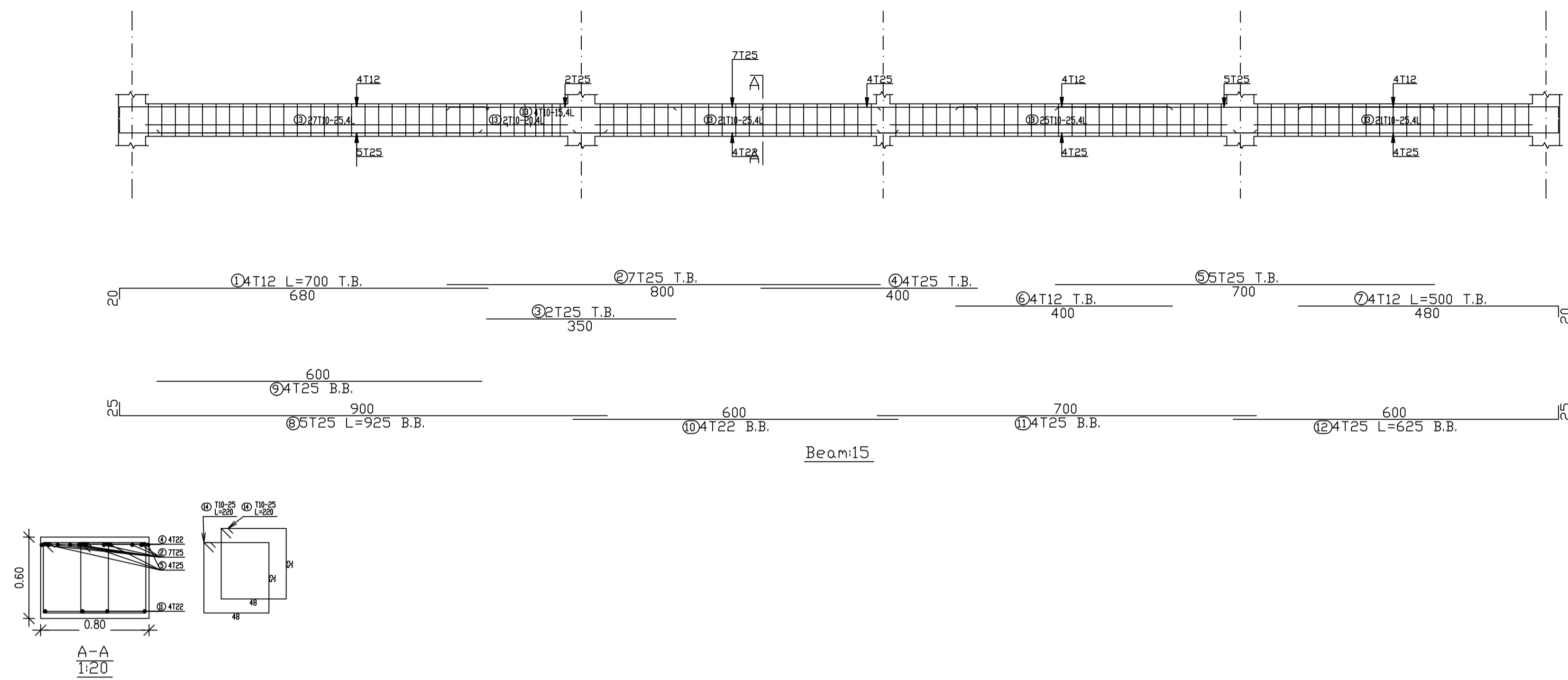
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S34	04/06/2024

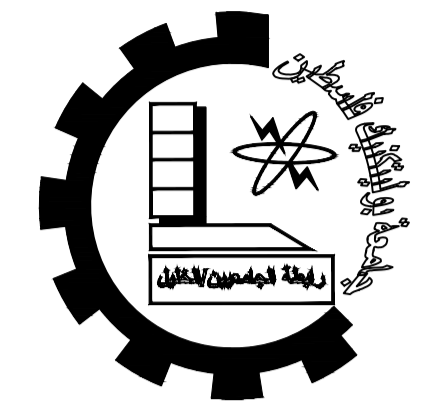
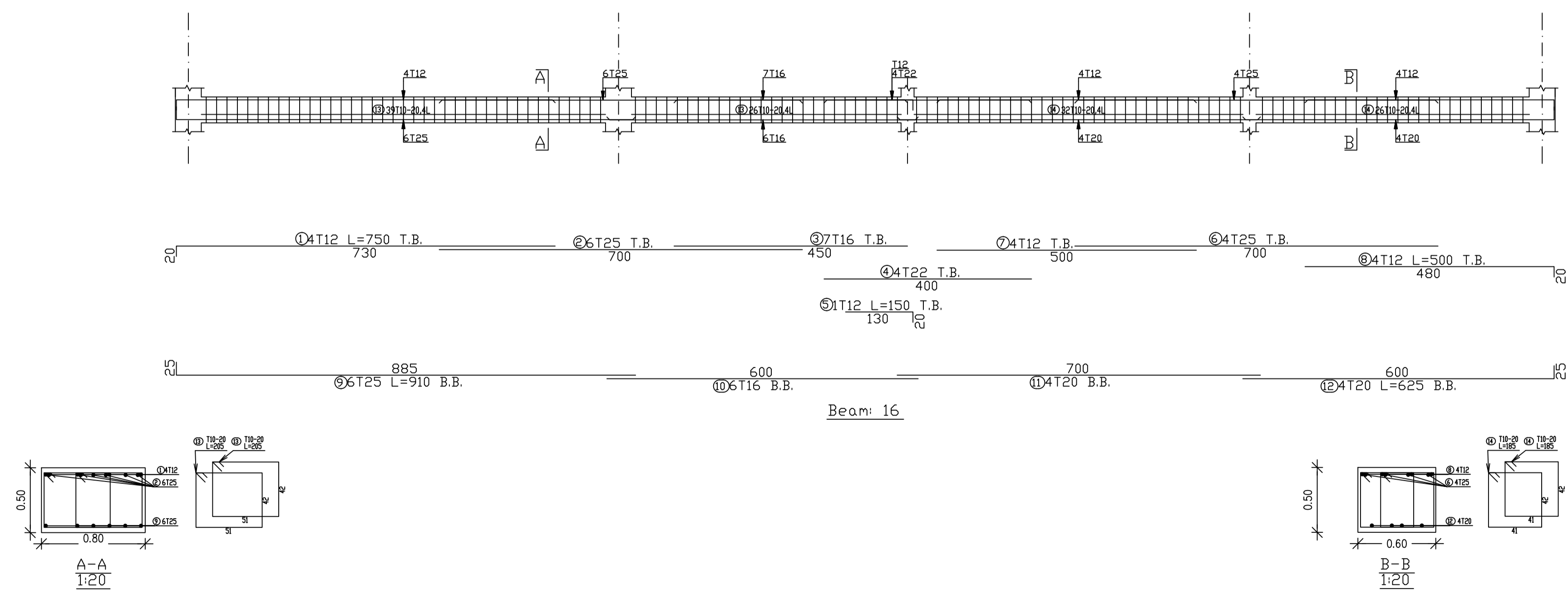
# BEAM 15

## SCALE 1/100



# BEAM 16

## SCALE 1/100



Palestine Polytechnic University

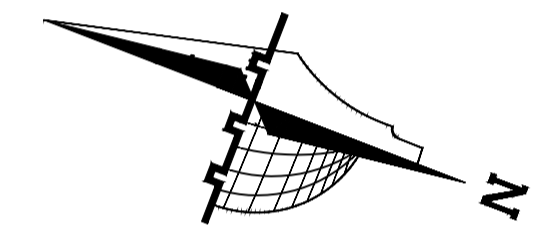
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

Stone	Gravel
R.Concrete	Wood
Concrete	HEXAGONAL TILES
Hollow Block	BAKLAVA TILES
isolating materiales	GRASS

DRAWING TITLE :

BEAMS 15&16

Supervisor

Dr. Nafeth  
Naesr aldeen

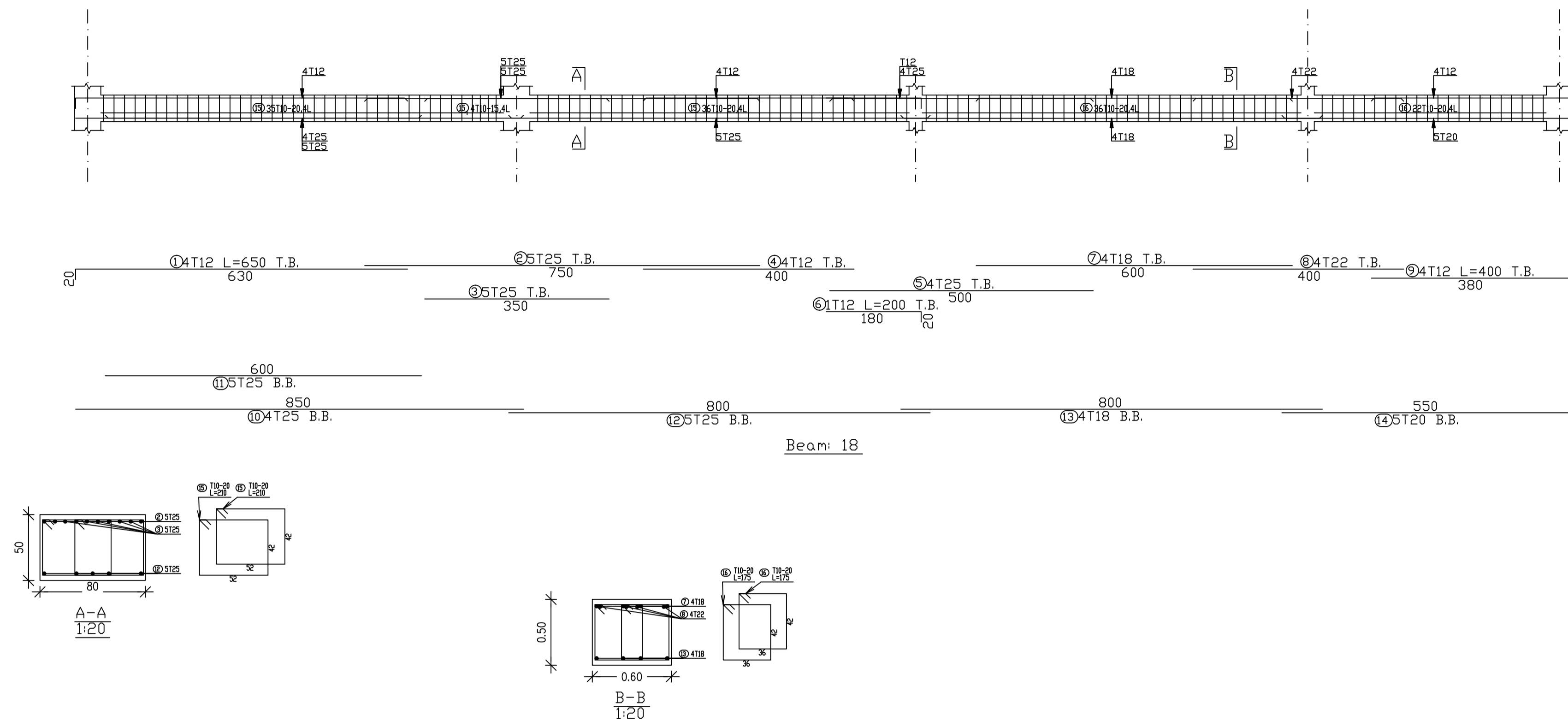
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S35	04/06/2024

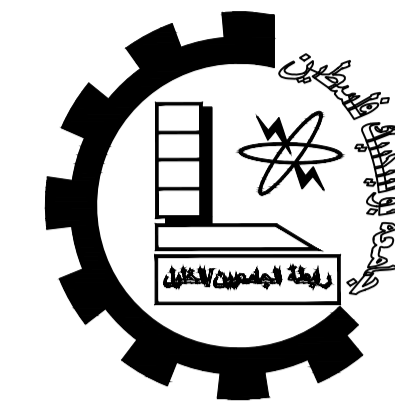
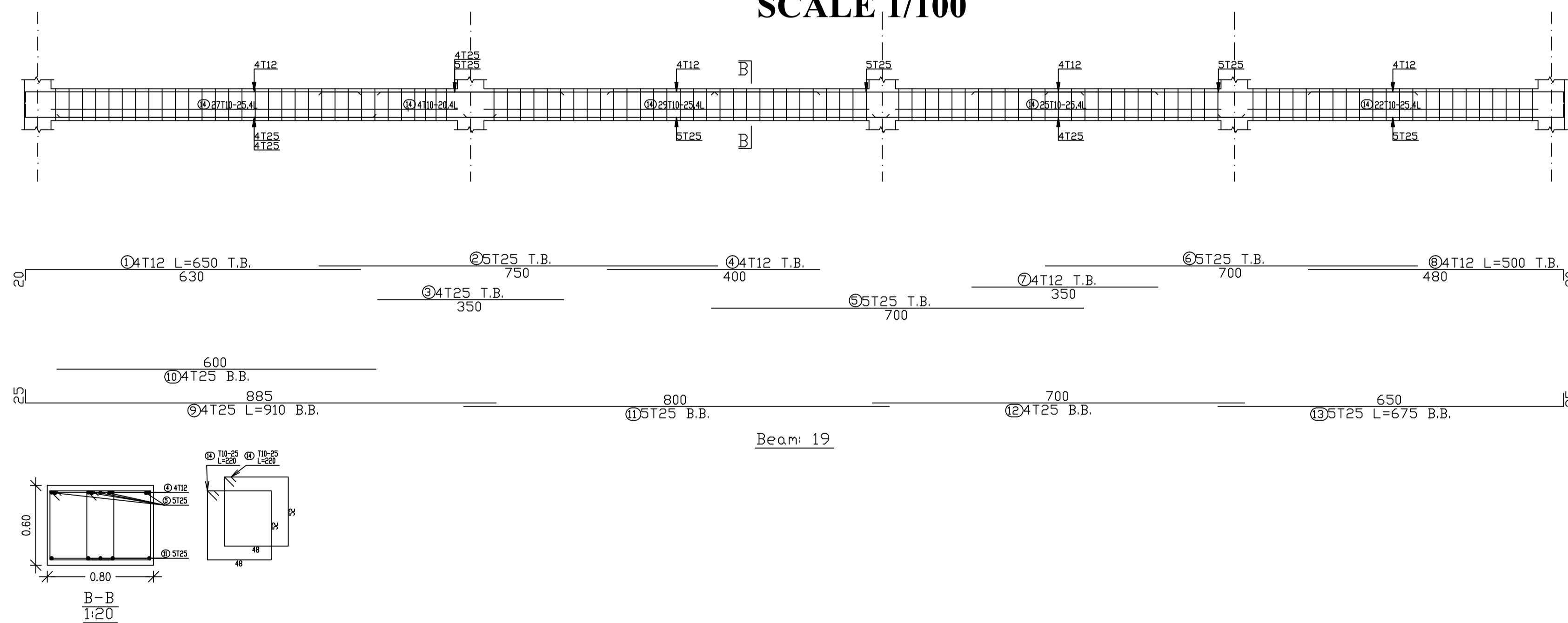
# BEAM 18

SCALE 1/100



# BEAM 19

SCALE 1/100



Palestine Polytechnic University

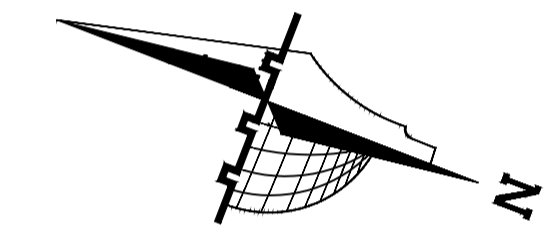
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

BEAMS 18&19

Supervisor

Dr. Nafeth  
Naesr aldeen

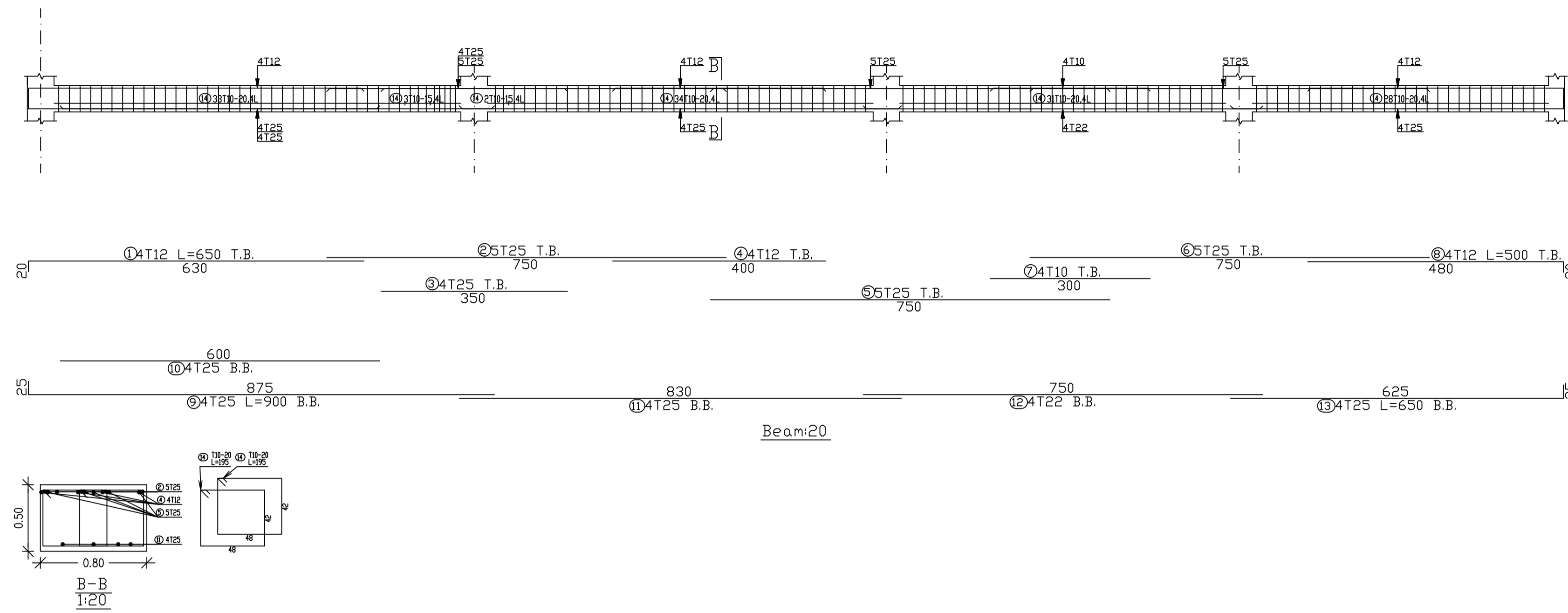
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S36	04/06/2024

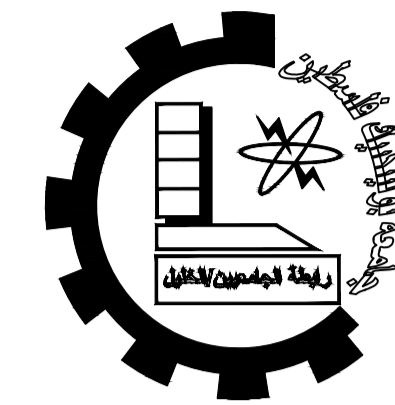
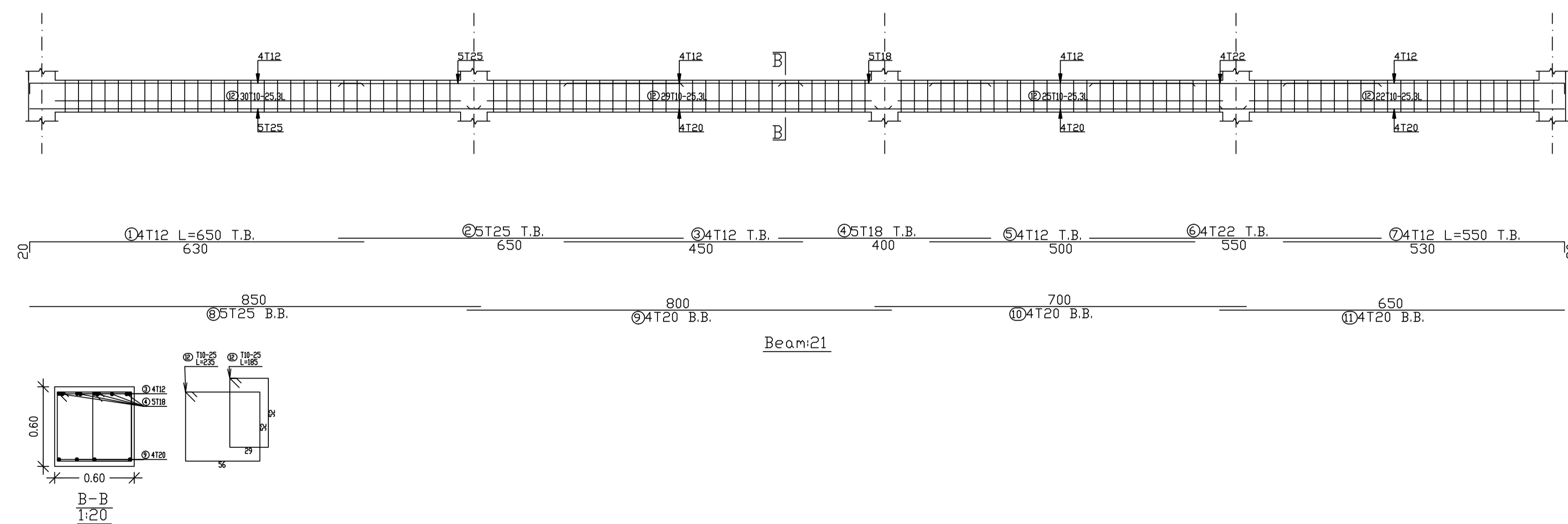
# BEAM 20

SCALE 1/100



# BEAM 21

SCALE 1/100



Palestine Polytechnic University

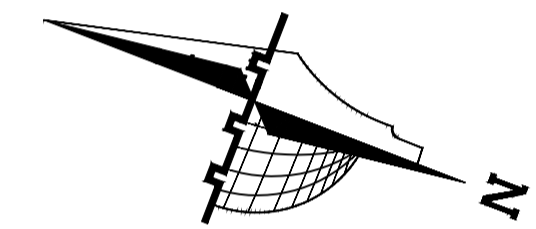
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 20&21

Supervisor

Dr. Nafeth Naesr aldeen

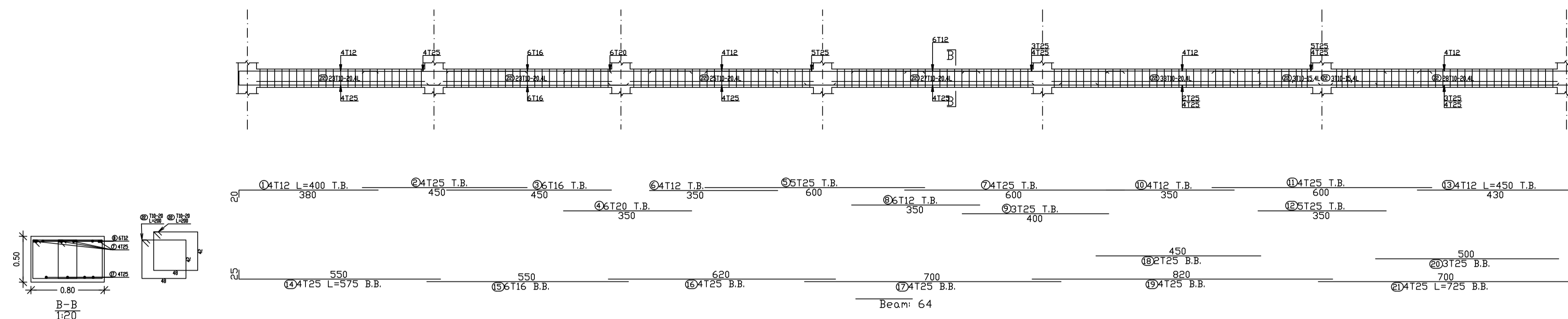
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S37	04/06/2024

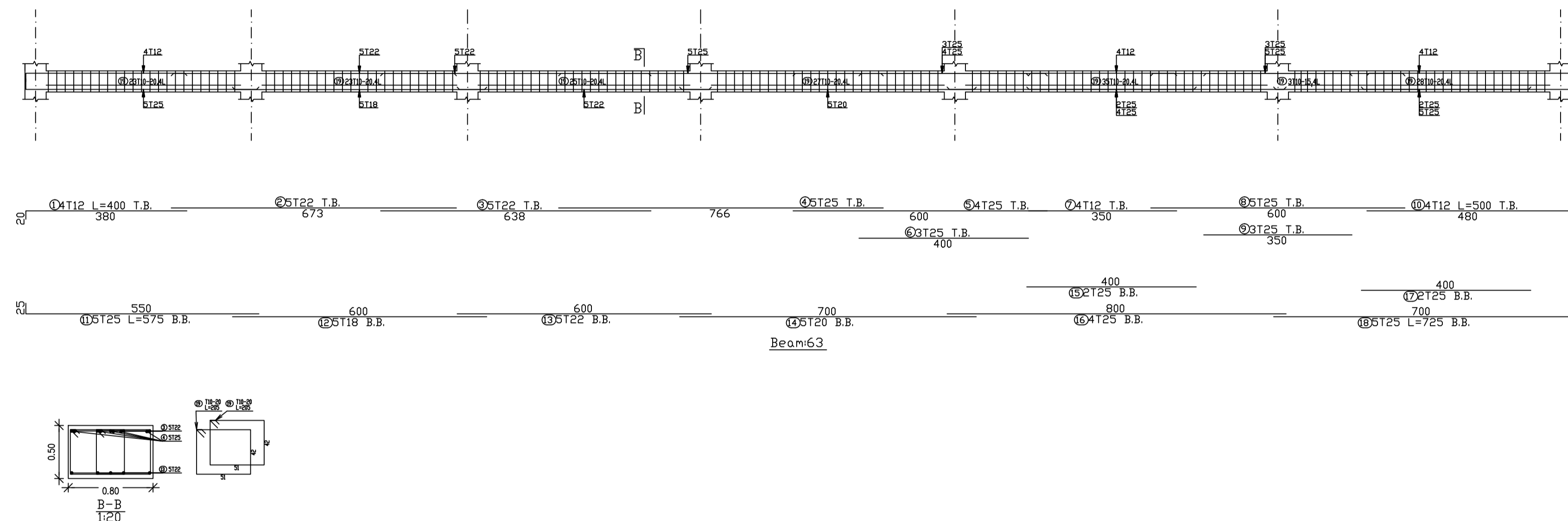
# BEAM 64

SCALE 1/100



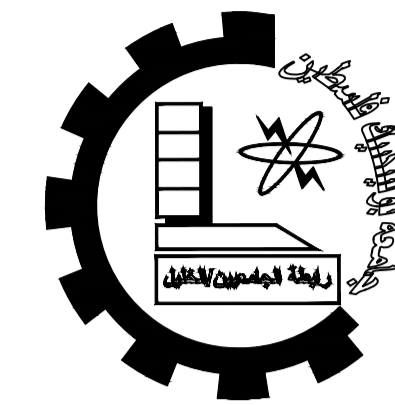
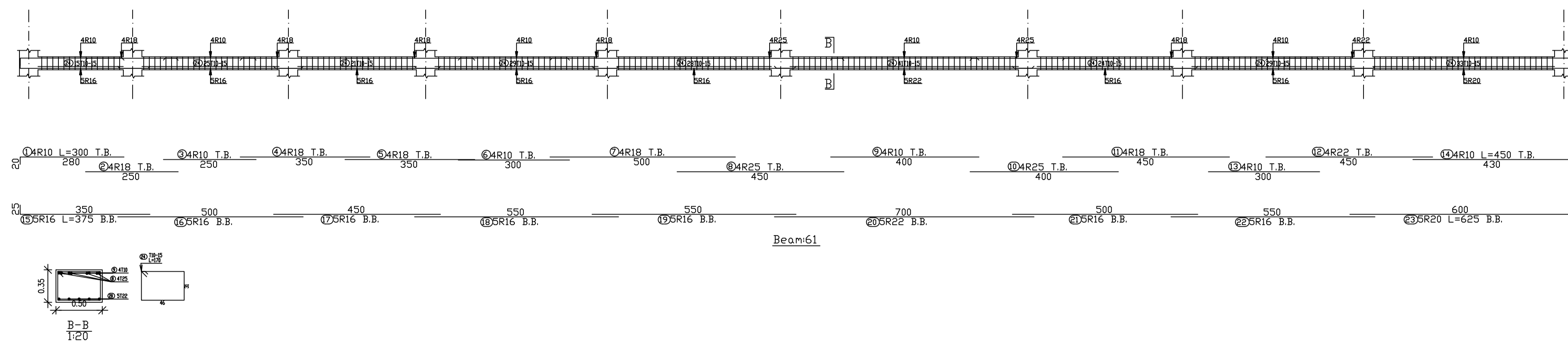
# BEAM 63

SCALE 1/100



# BEAM 61

SCALE 1/100



Palestine Polytechnic University

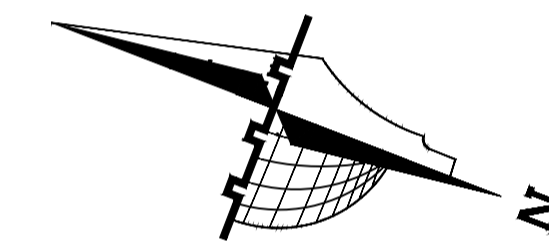
College of Engineering

Civil Engineering Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 63&64&61

Supervisor

Dr. Nafeth Naesr aldeen

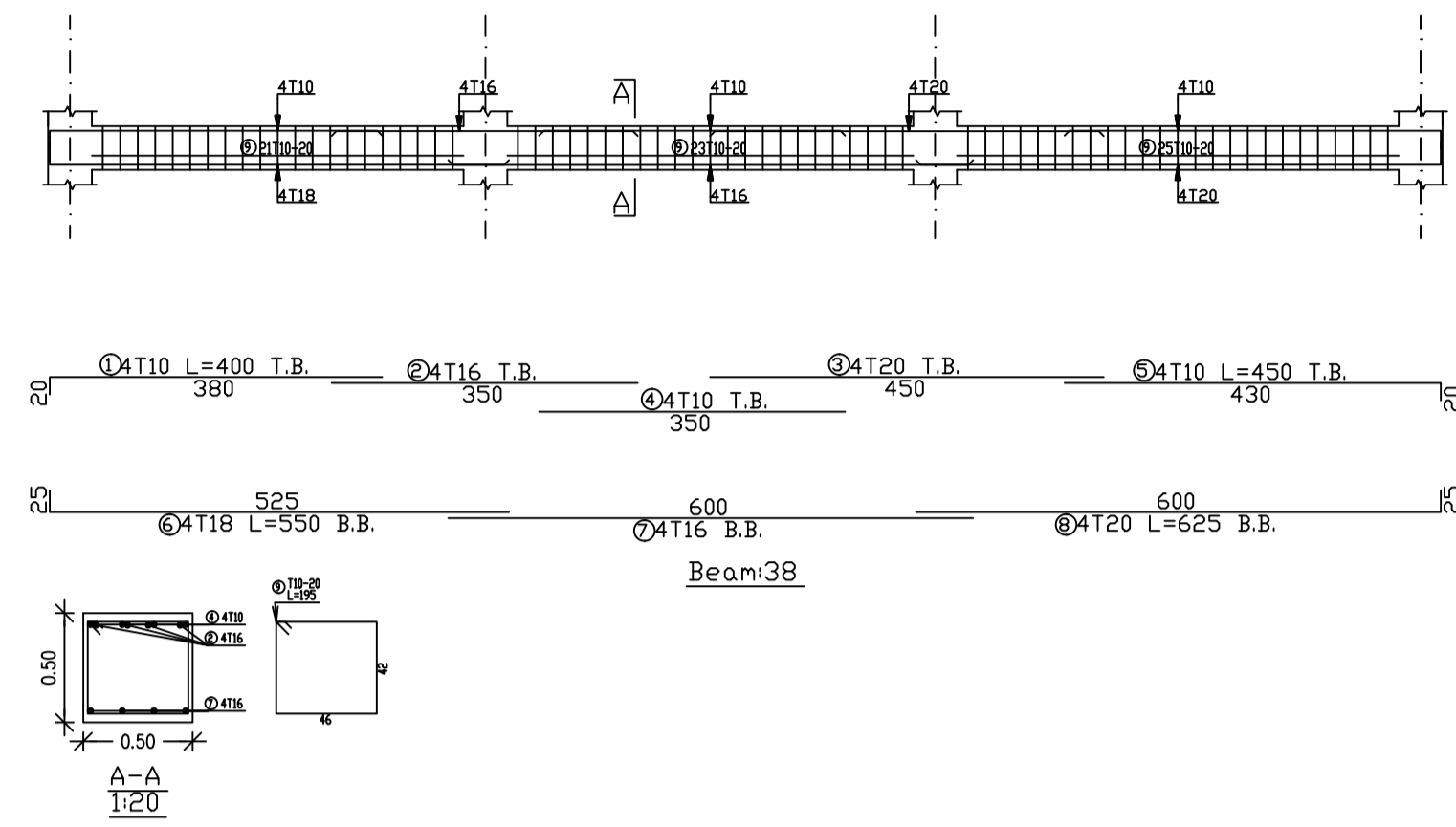
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S38	04/6/2024

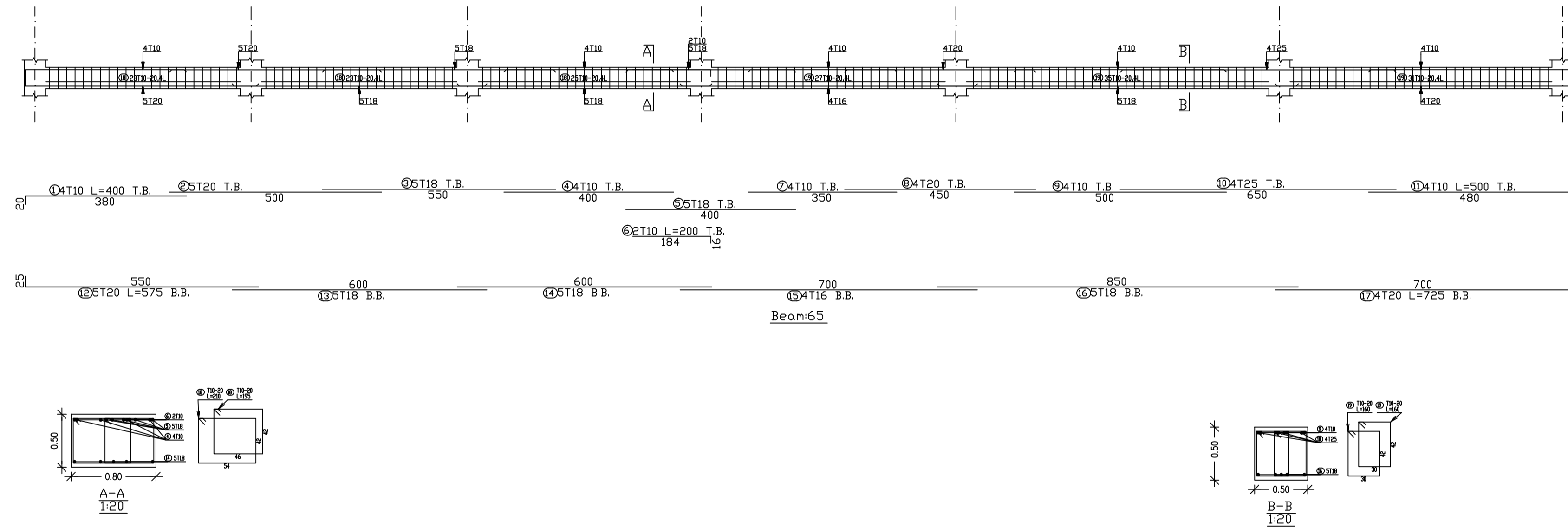
# BEAM 68

SCALE 1/100



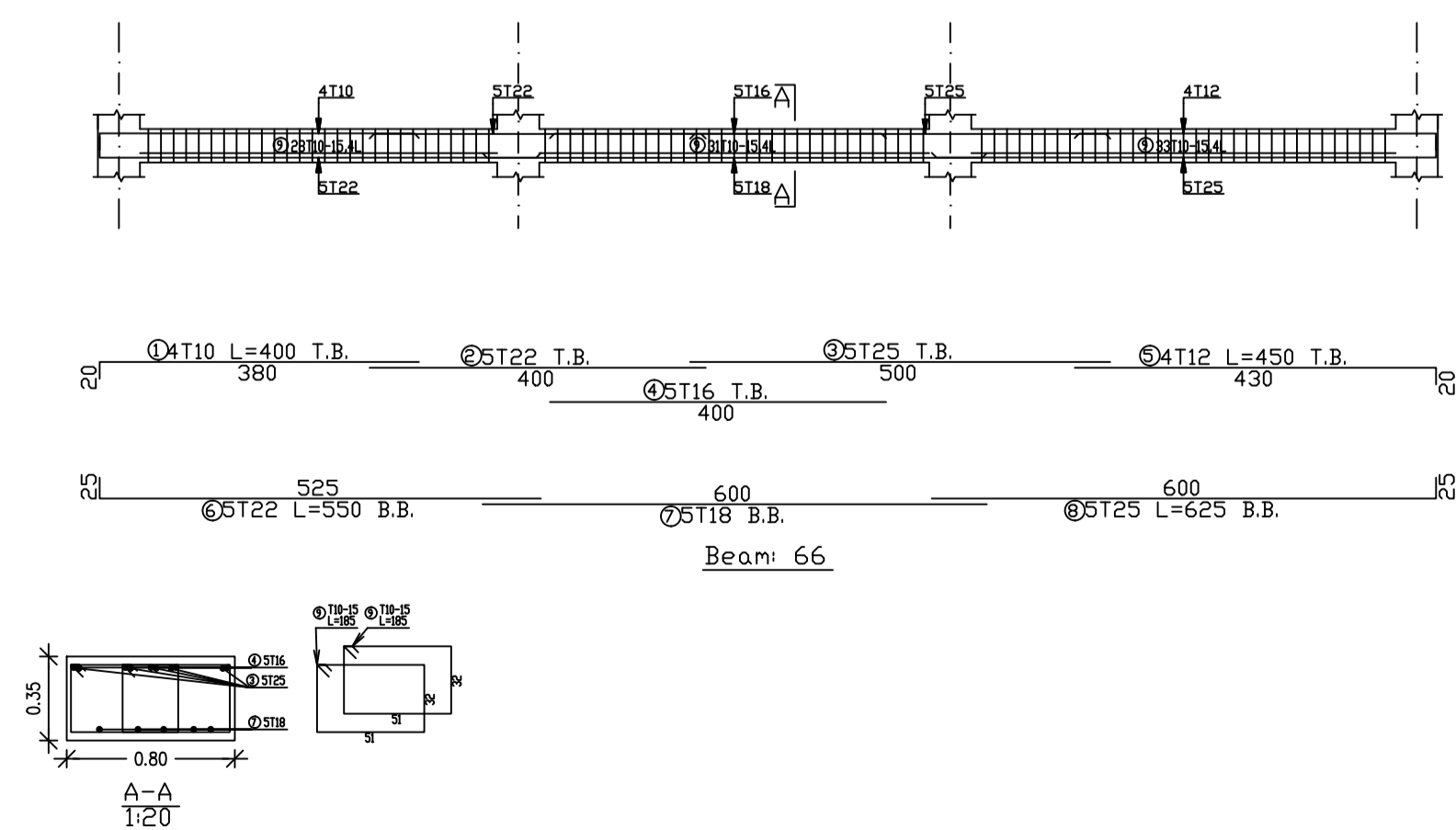
# BEAM 65

SCALE 1/100



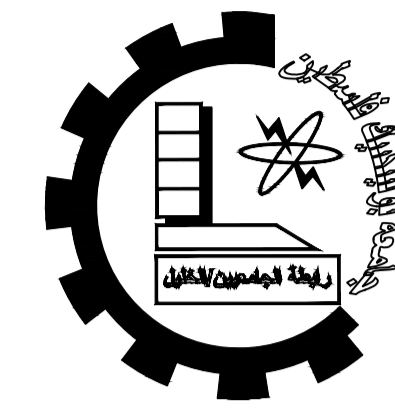
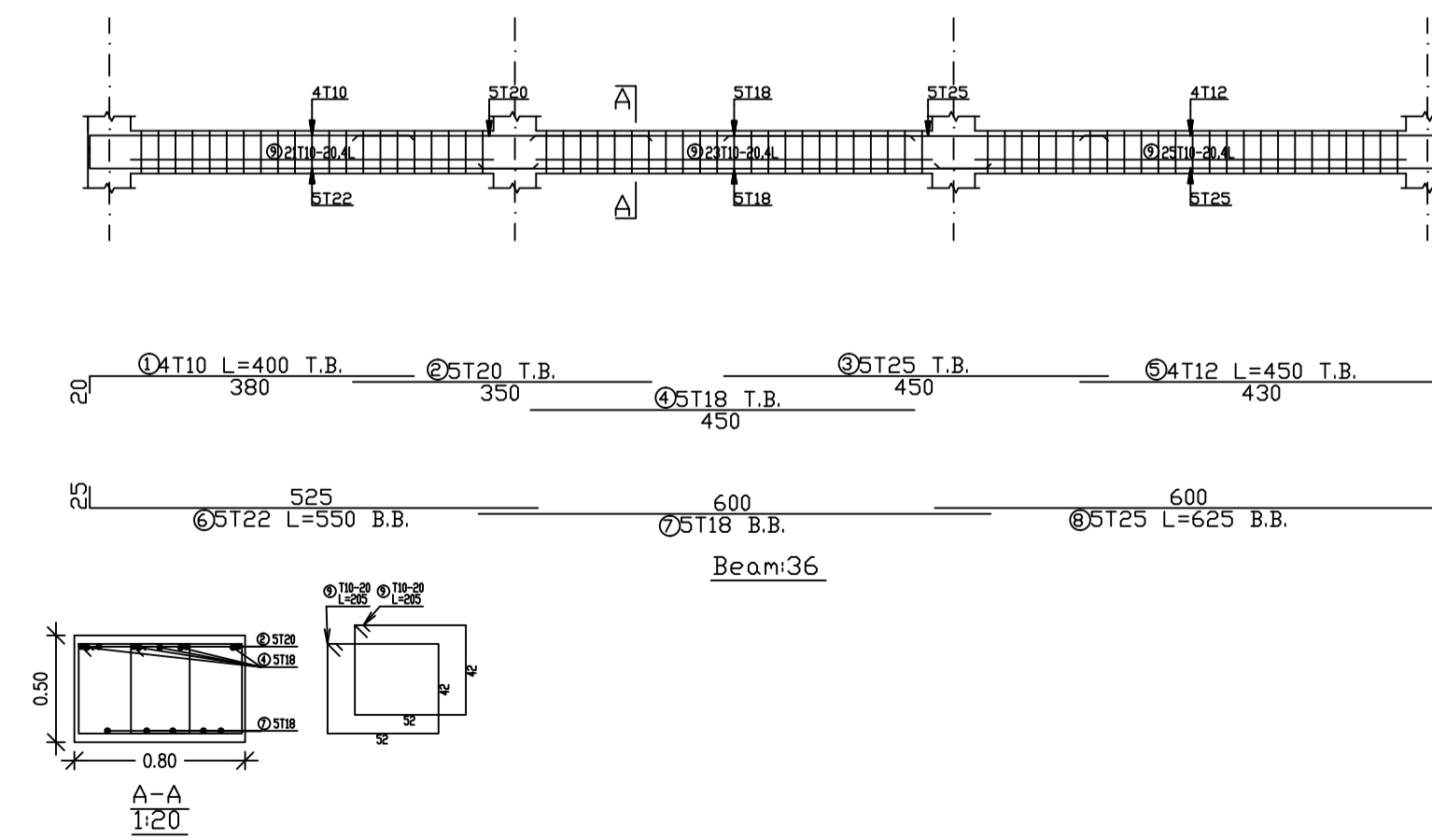
# BEAM 66

SCALE 1/100



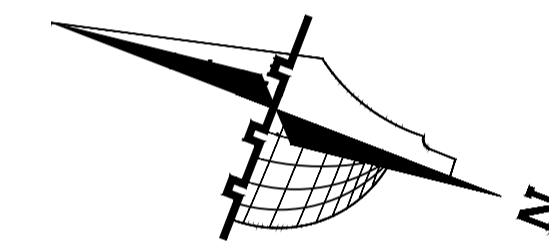
# BEAM 67

SCALE 1/100



Palestine Polytechnic University  
 College of Engineering  
 Civil Engineering Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

BEAMS  
 65&66&67&68

Supervisor

Dr. Nafeth  
 Naesr aldeen

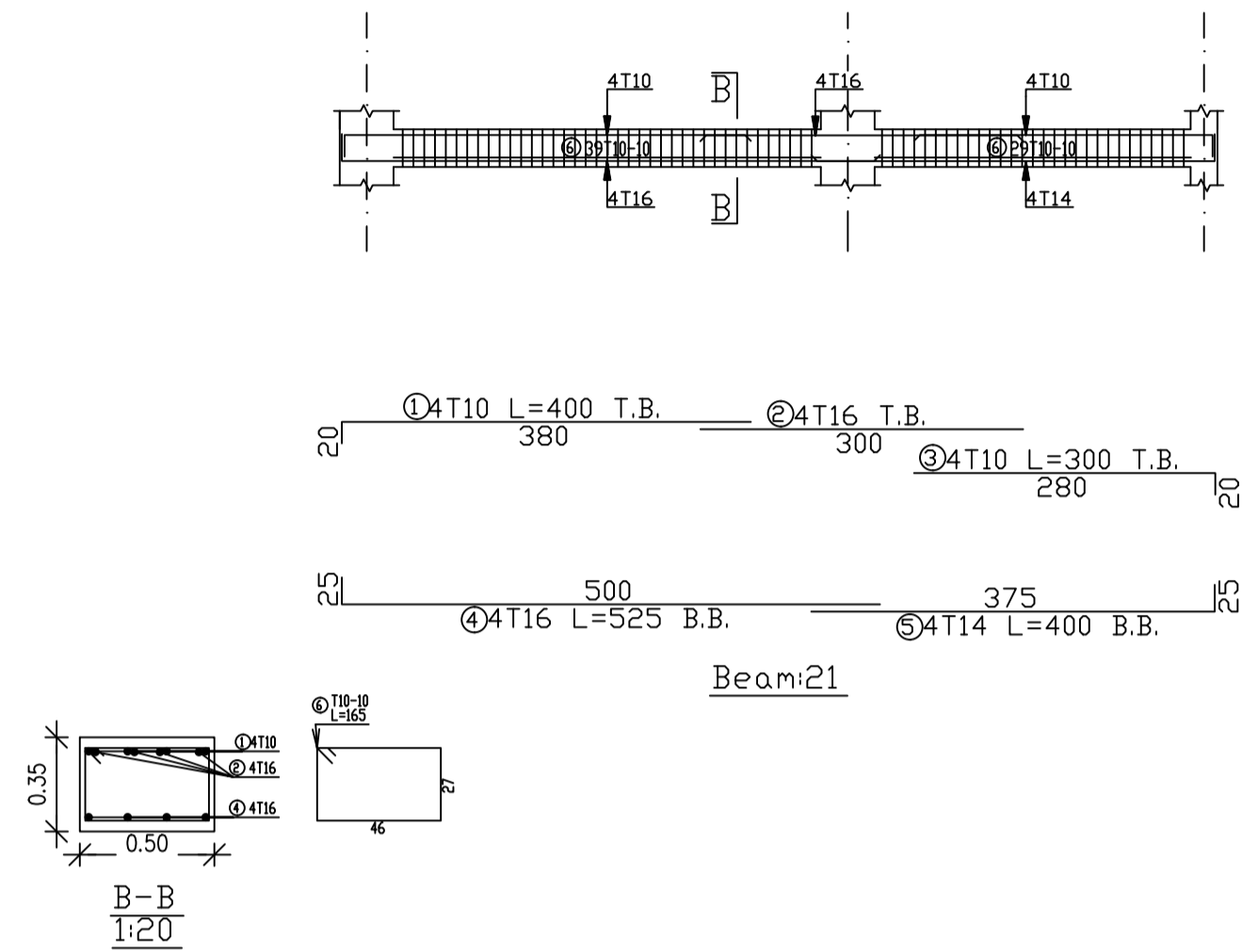
Done by :

Hisham Shindy  
 Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S39	04/6/2024

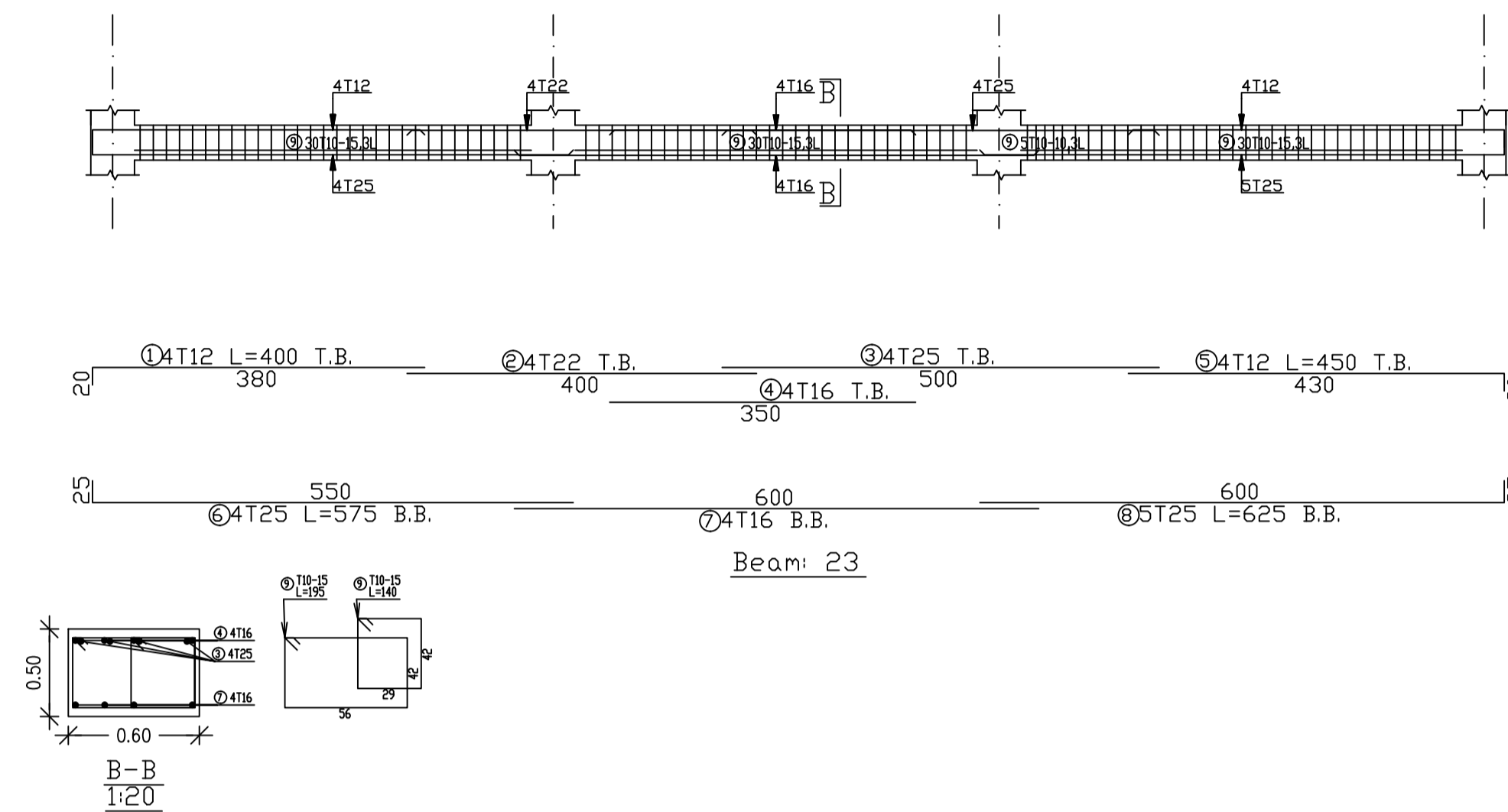
# BEAM 22

SCALE 1/100



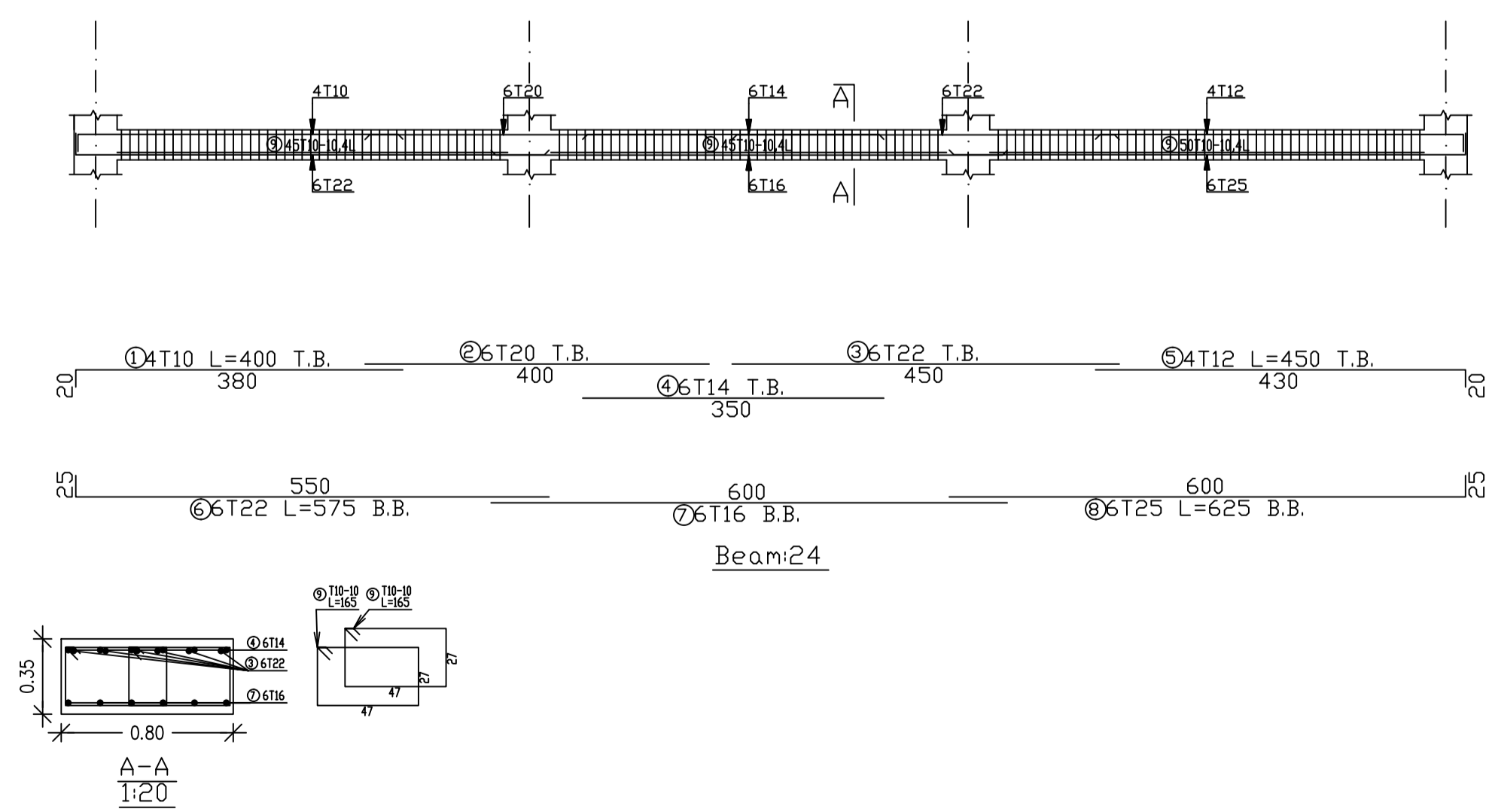
# BEAM 23

SCALE 1/100



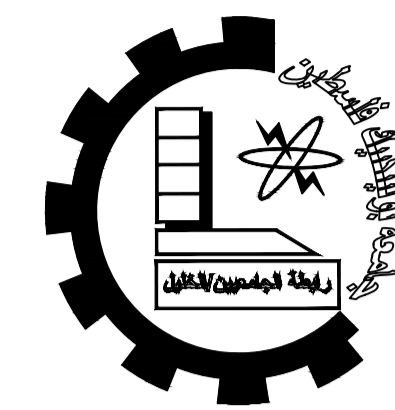
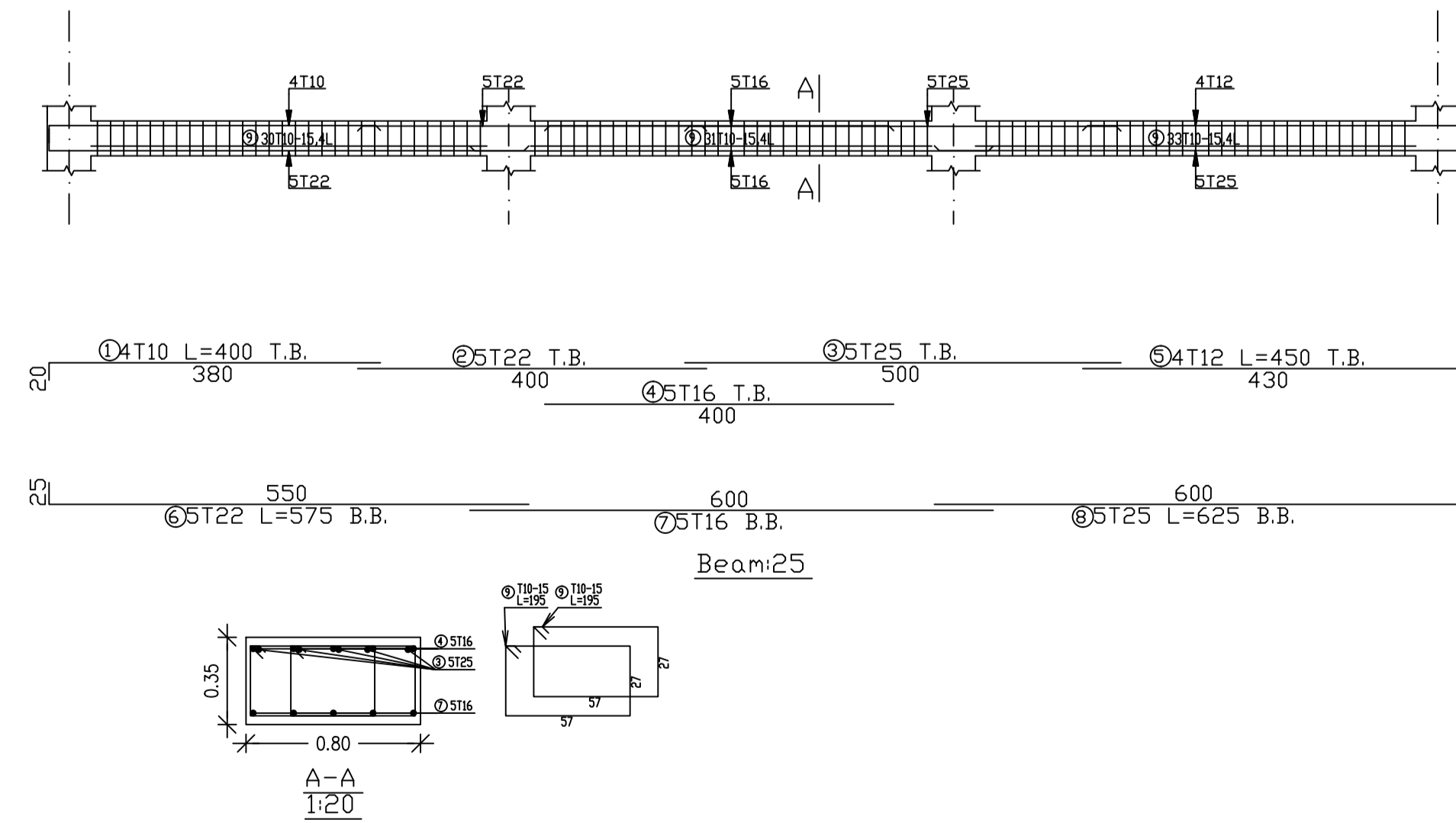
# BEAM 24

SCALE 1/100



# BEAM 25

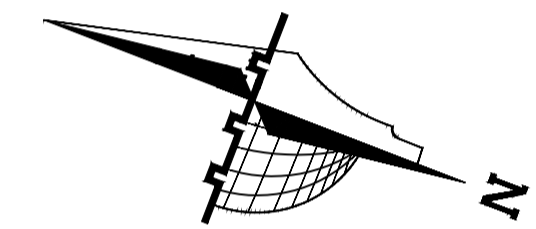
SCALE 1/100



Palestine Polytechnic University  
 Engineering College  
 Civil Department  
 Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materiales
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS  
 22&23&24&25

Supervisor

Dr. Nafeth  
 Naesr aldeen

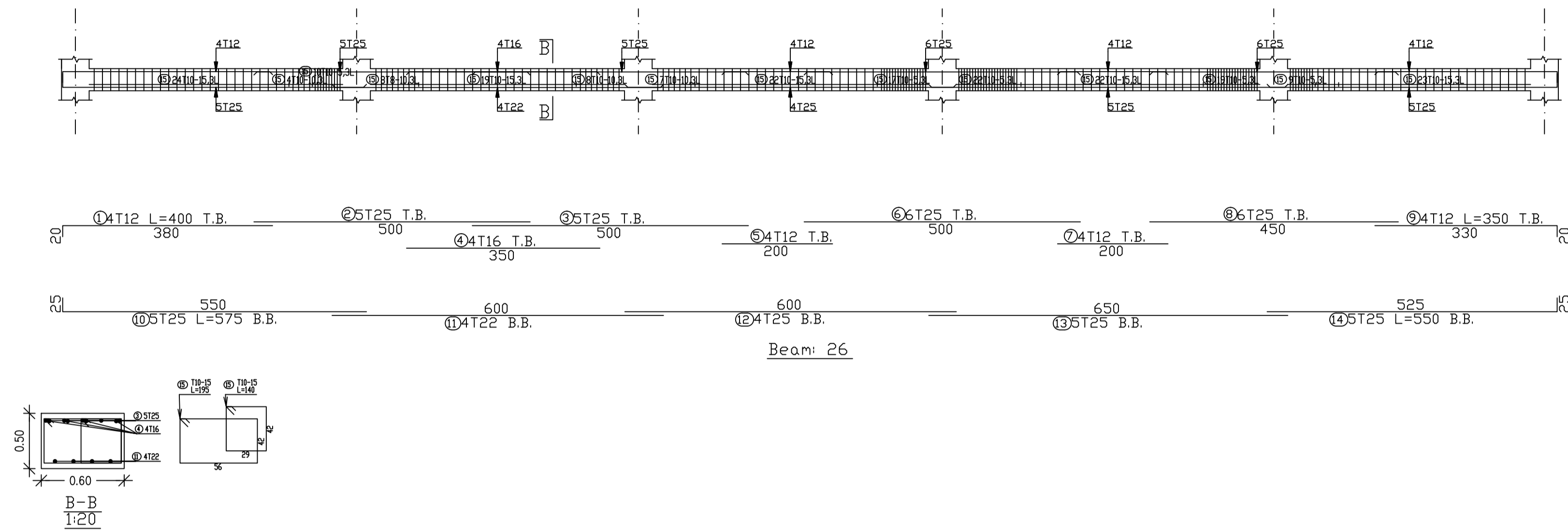
Done by :

Hisham Shindy  
 Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S40	04/6/2024

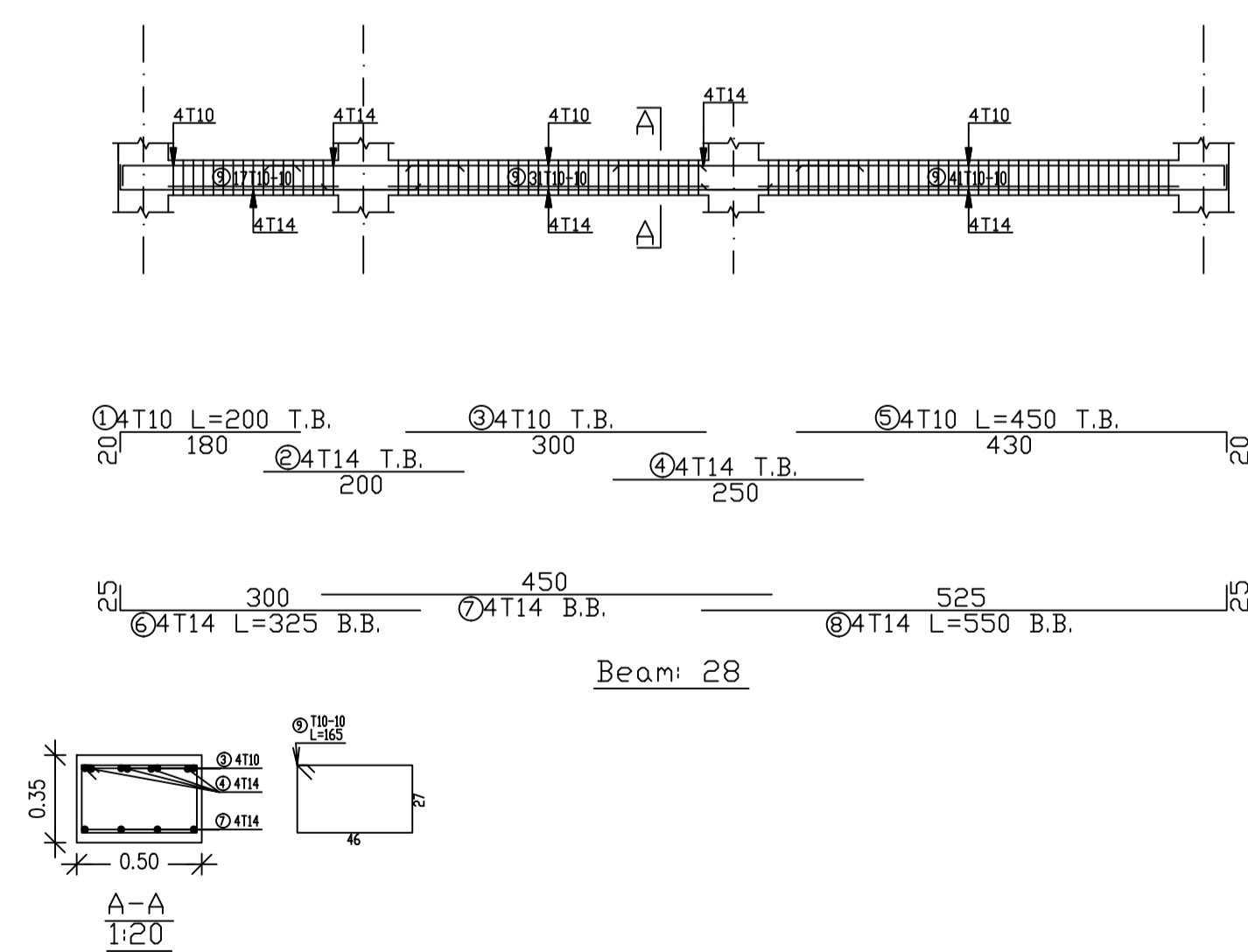
# BEAM 26

SCALE 1/100



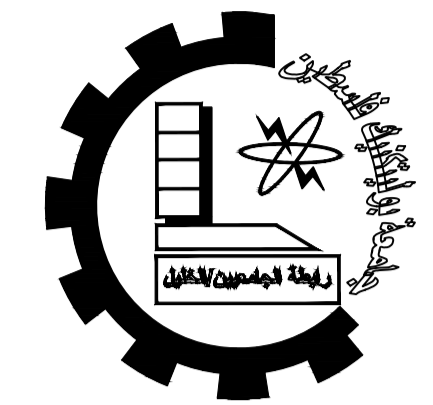
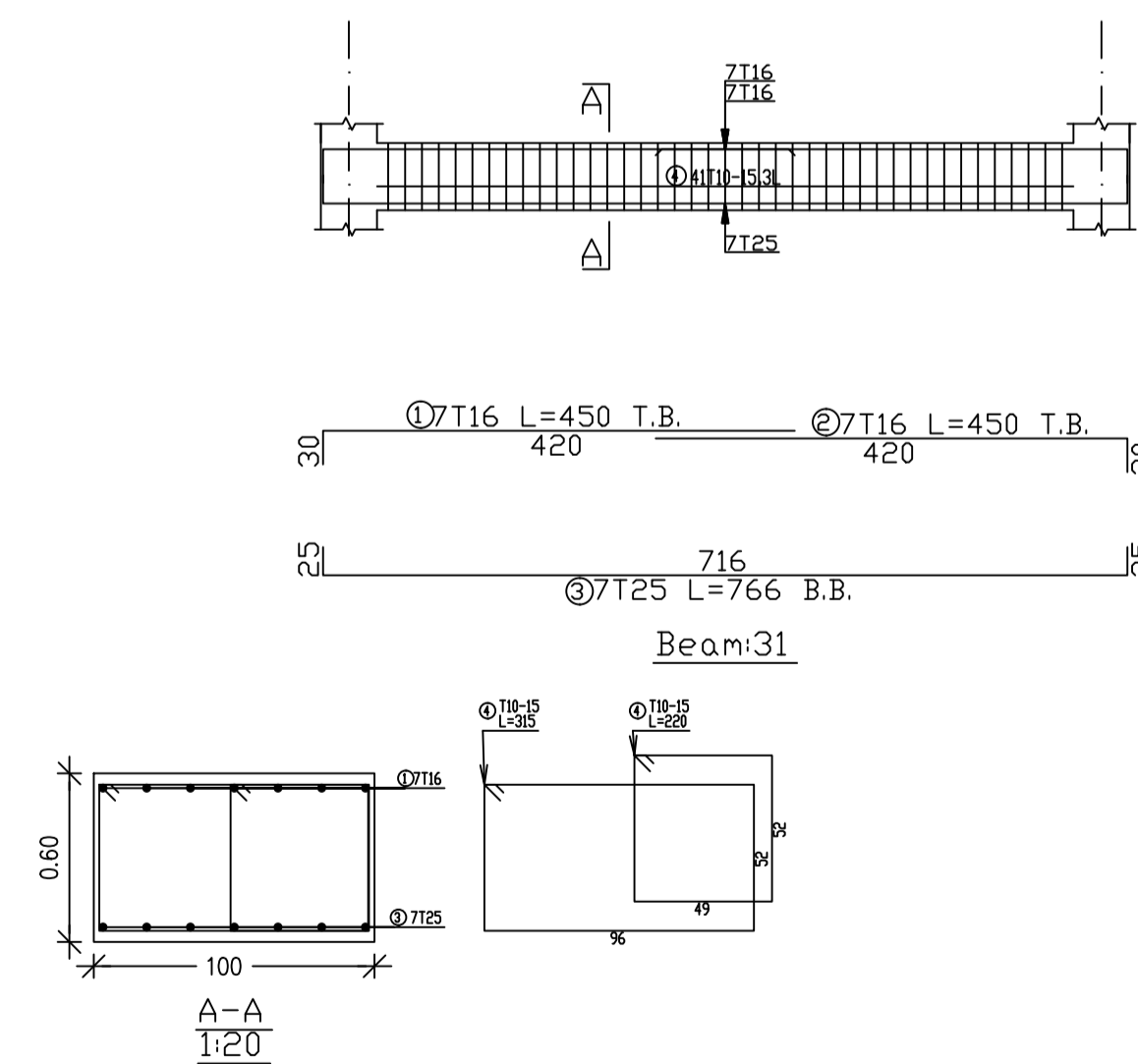
# BEAM 28

SCALE 1/100



# BEAM 31

SCALE 1/100



Palestine Polytechnic University

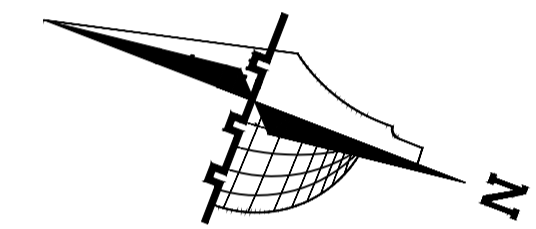
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 26&28&31

Supervisor

Dr. Nafeth Naesr aldeen

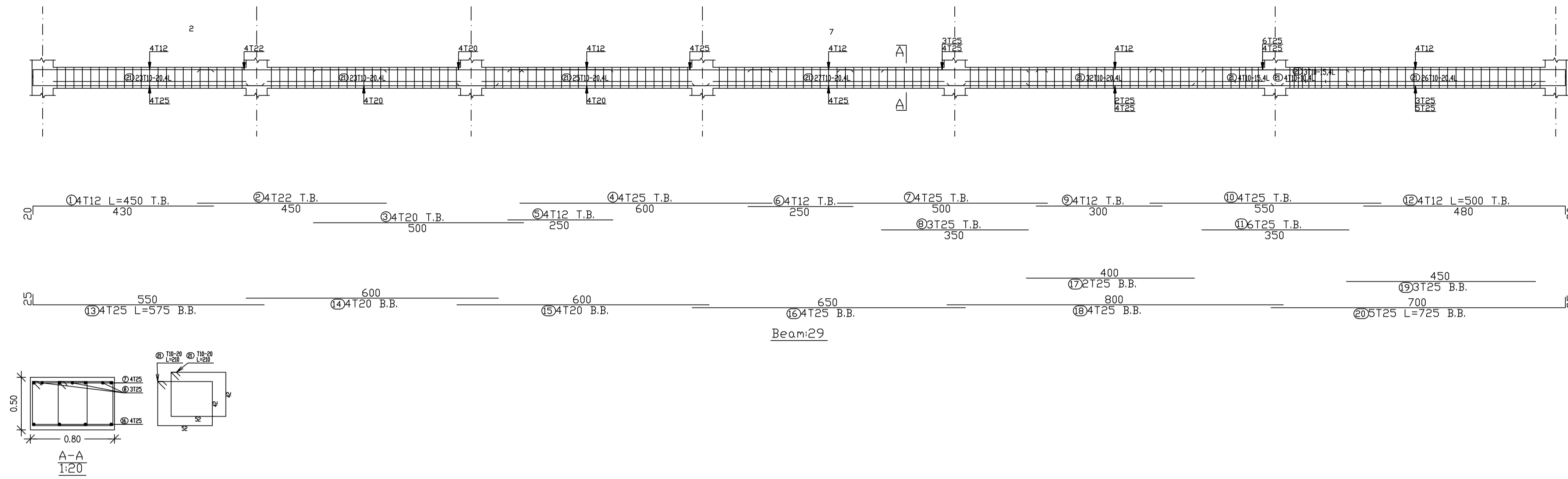
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S41	04/06/2024

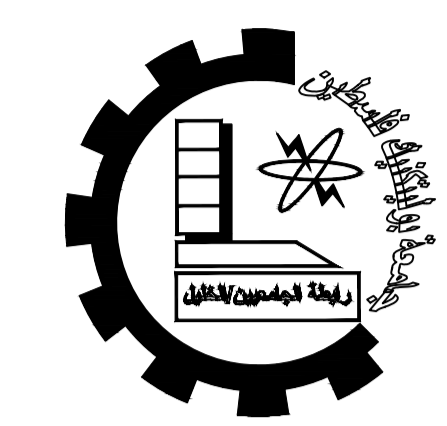
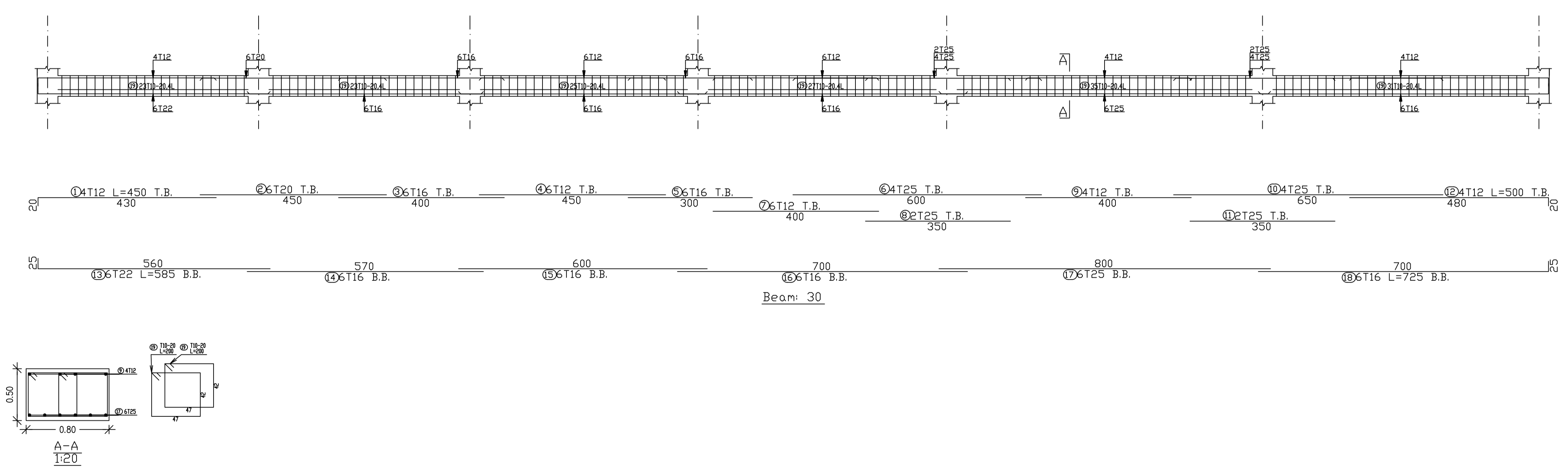
# BEAM 29

SCALE 1/100



# BEAM 30

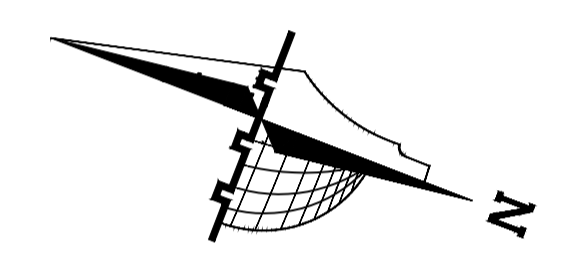
SCALE 1/100



Palestine Polytechnic University  
 Engineering College  
 Civil Department  
 Civil Engineering

Graduation Project

Panorama Mall



- Legend :**
- Stone
  - R.Concrete
  - Concrete
  - Hollow Block
  - isolating materials
  - Gravel
  - Wood
  - HEXAGONAL TILES
  - BAKLAVA TILES
  - GRASS

DRAWING TITLE :

BEAMS 29&30

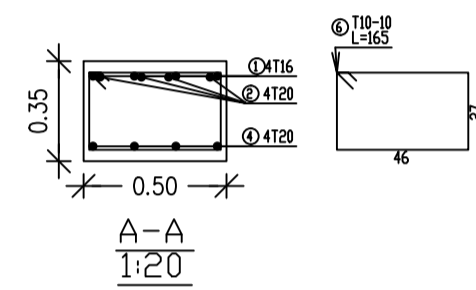
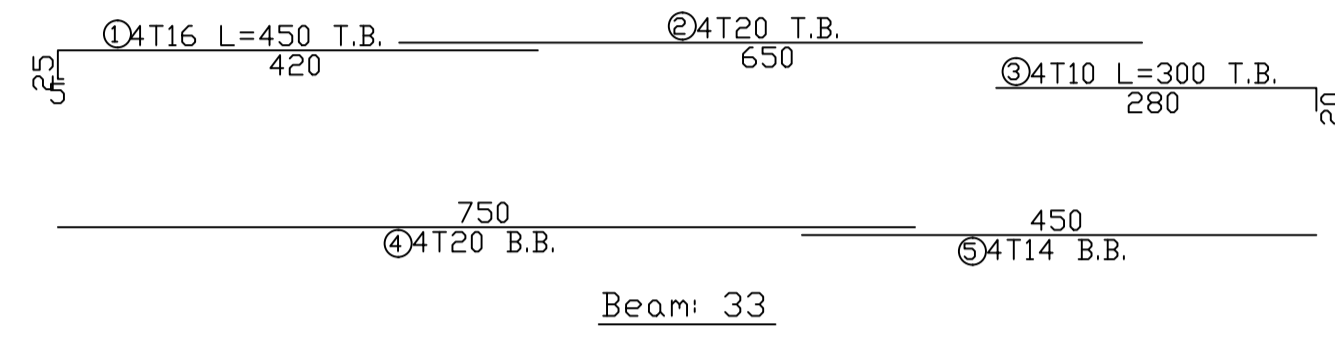
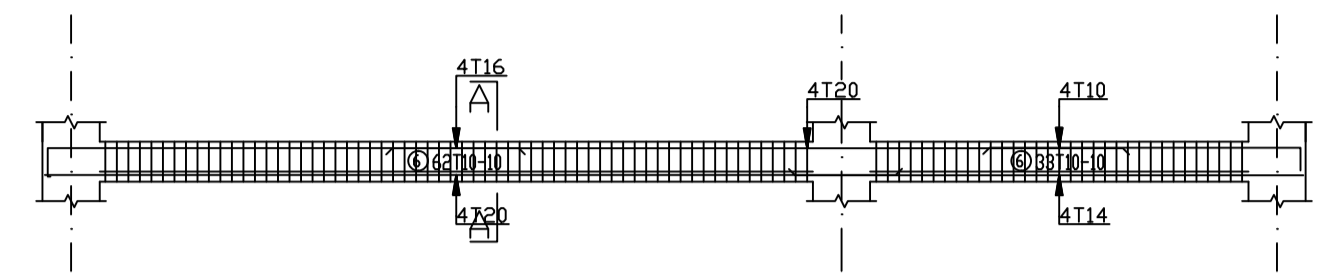
Supervisor  
 Dr. Nafeth Naesr aldeen

Done by :  
 Hisham Shindy  
 Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S42	04/6/2024

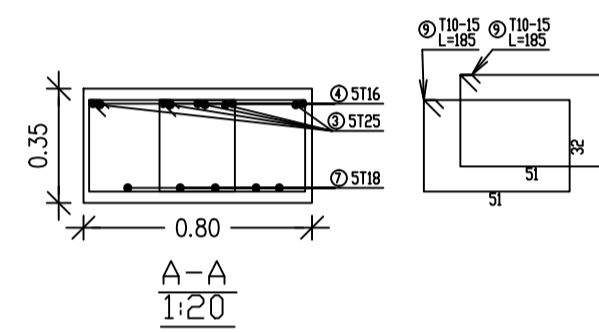
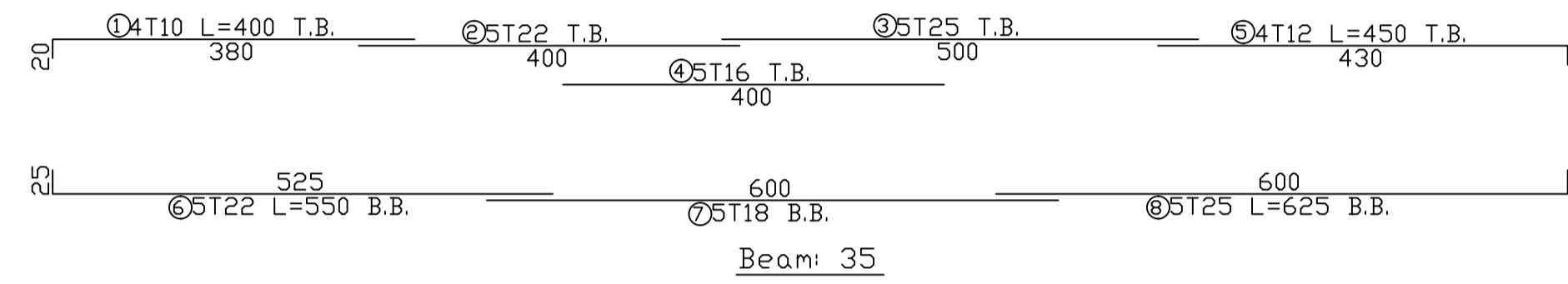
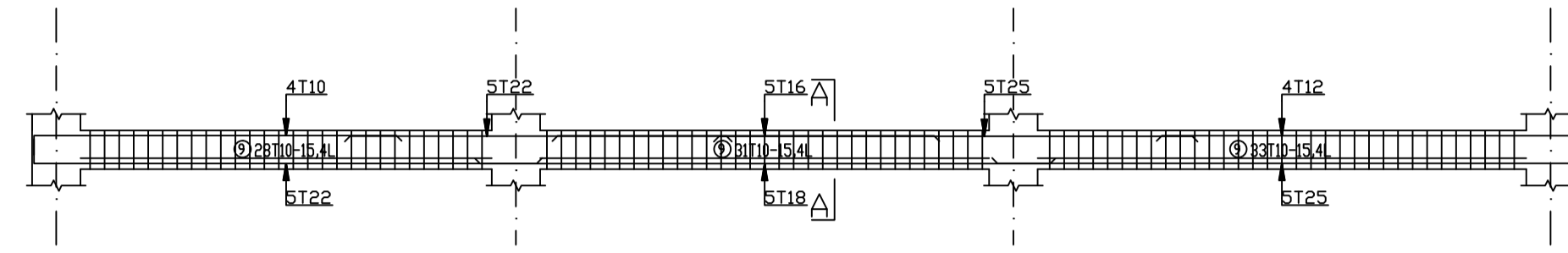
# BEAM 33

SCALE 1/100



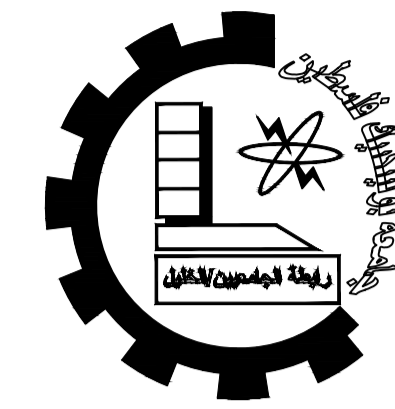
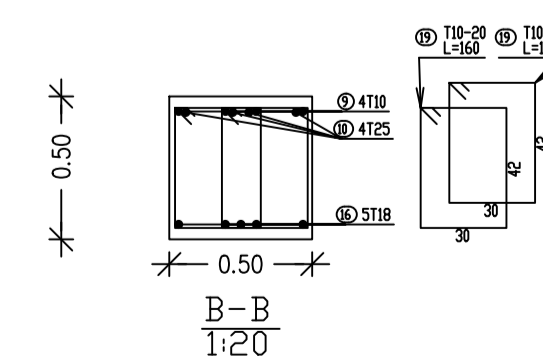
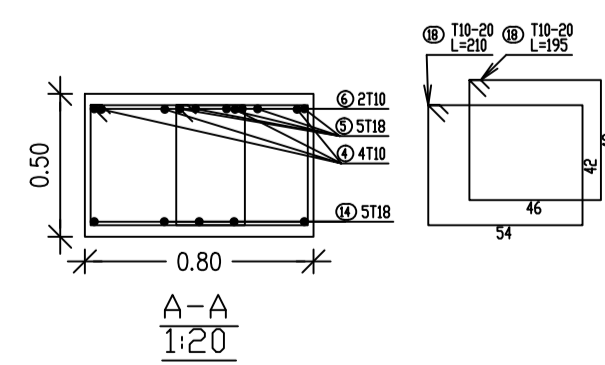
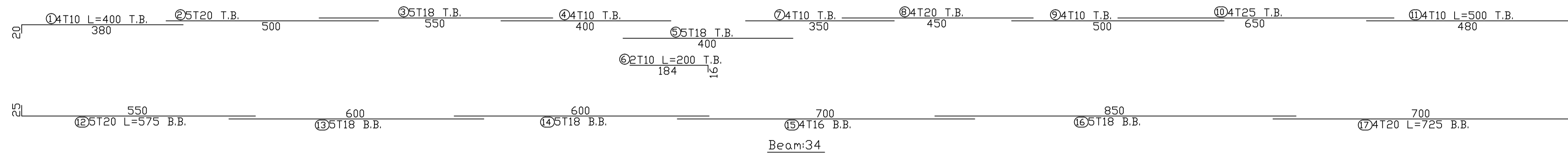
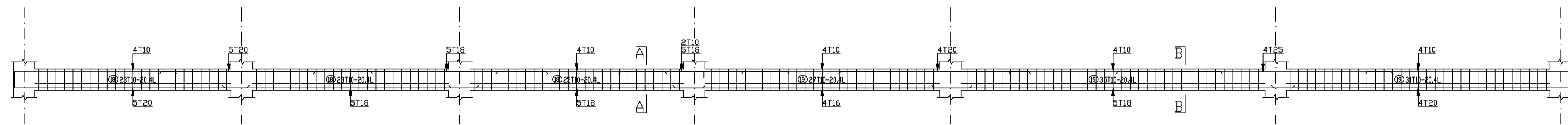
# BEAM 35

SCALE 1/100



# BEAM 34

SCALE 1/100



Palestine Polytechnic University

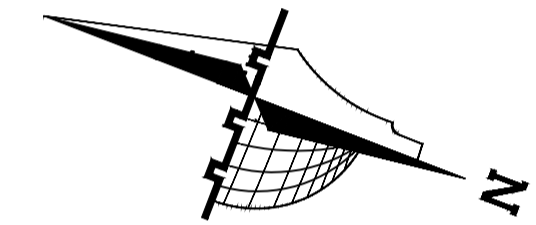
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

BEAMS 33&34&35

Supervisor

Dr. Nafeth Naesr aldeen

Done by :

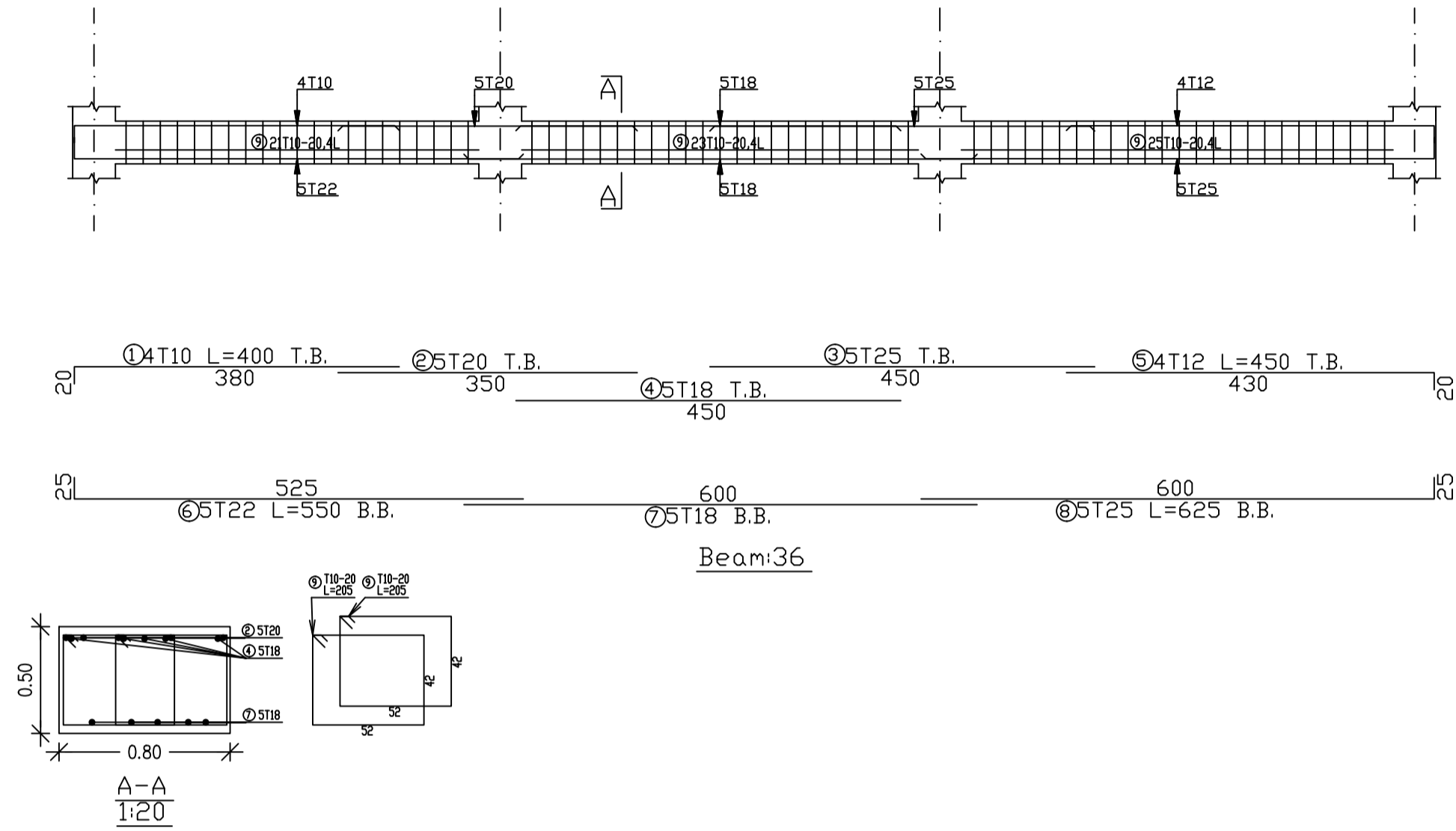
Hisham Shindy

Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S43	04/6/2024

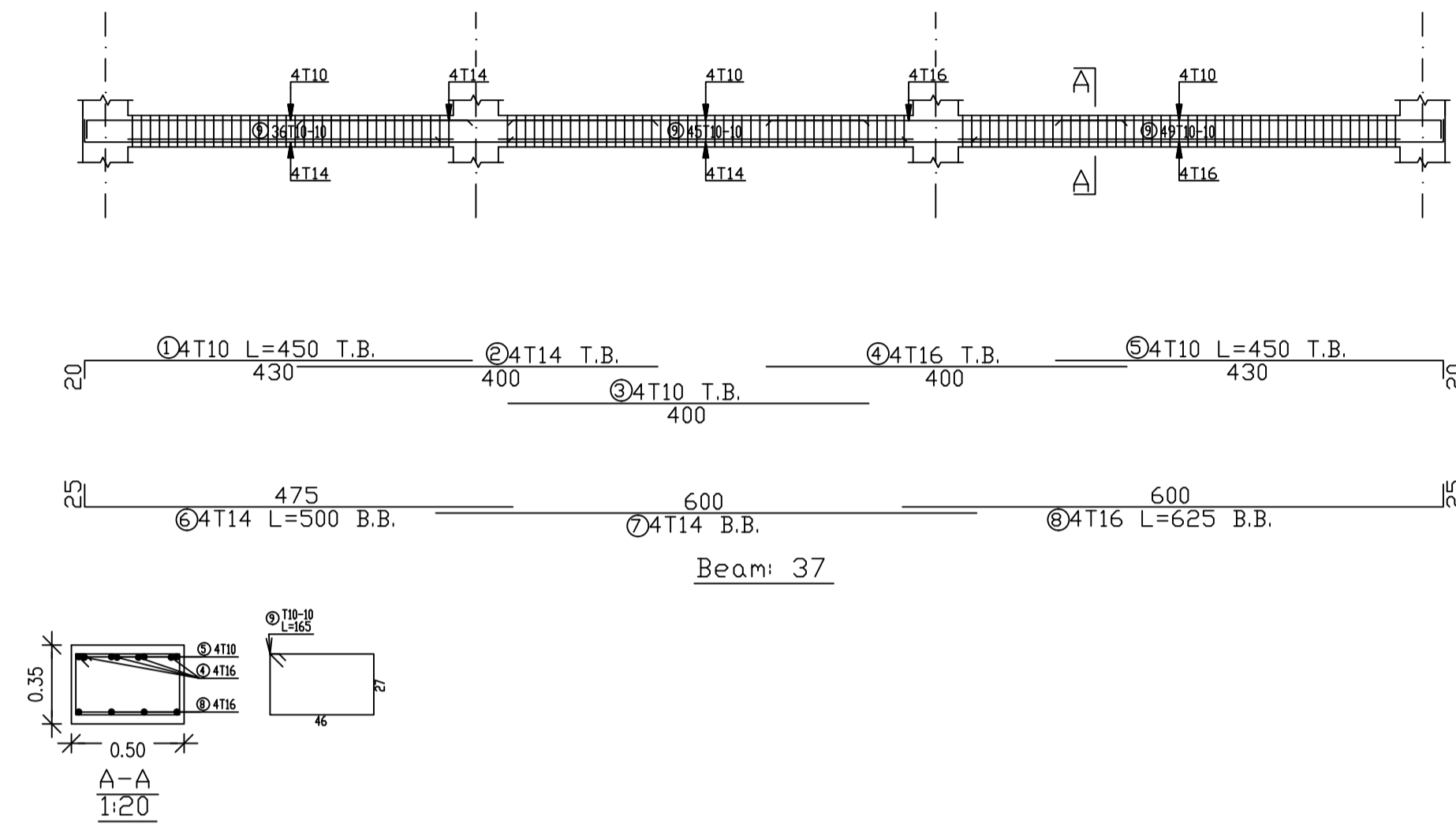
# BEAM 36

SCALE 1/100



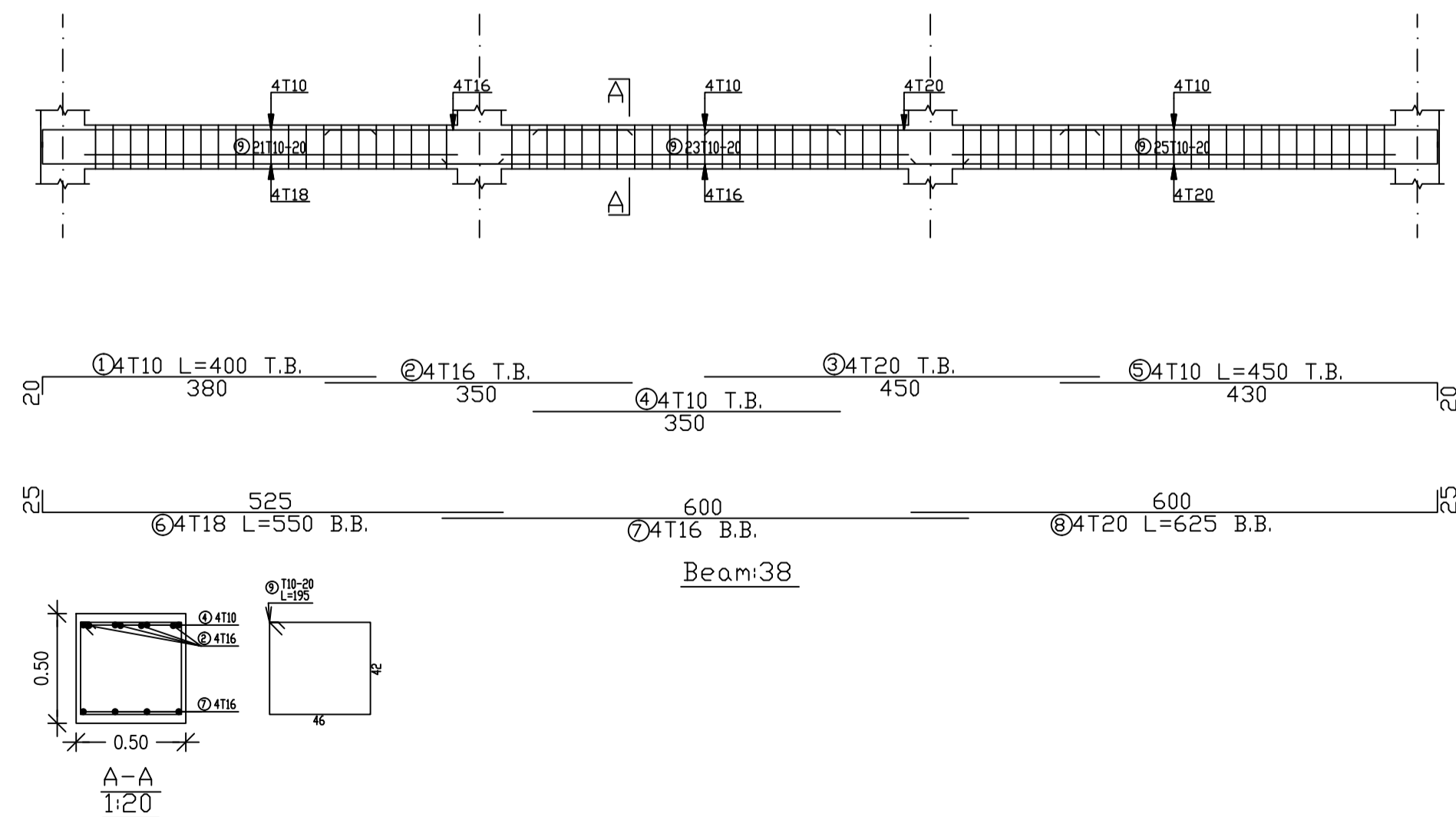
# BEAM 37

SCALE 1/100



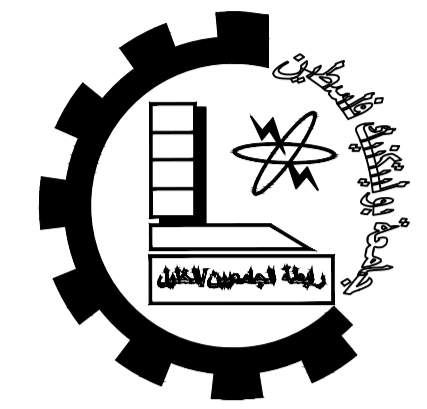
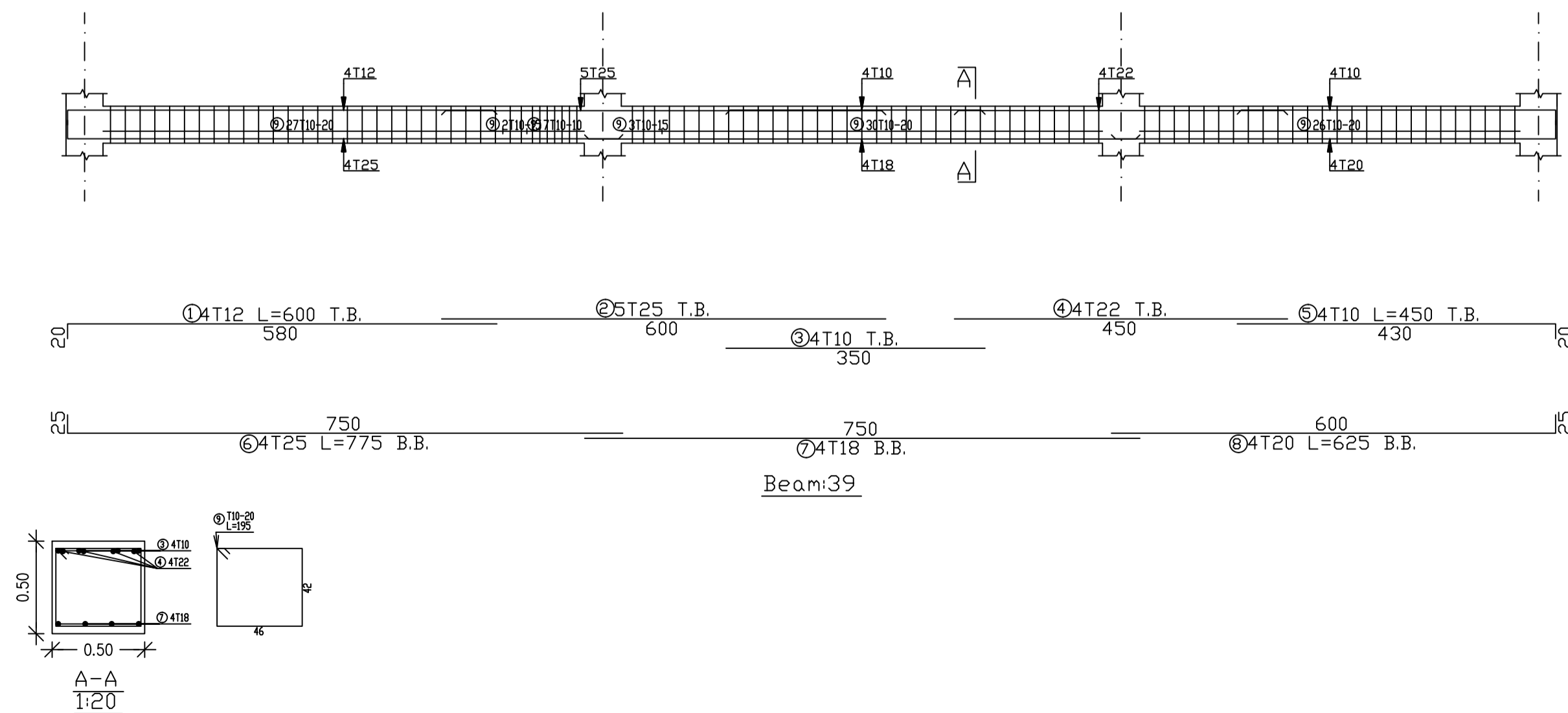
# BEAM 38

SCALE 1/100



# BEAM 39

SCALE 1/100



Palestine Polytechnic University

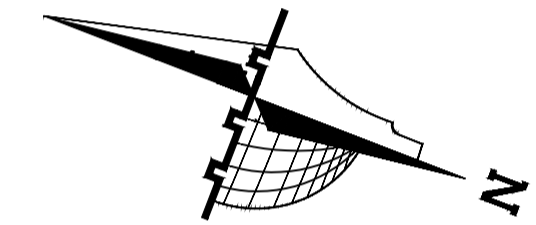
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

**BEAMS**  
36&37&38&39

Supervisor

*Dr. Nafeth Naesr aldeen*

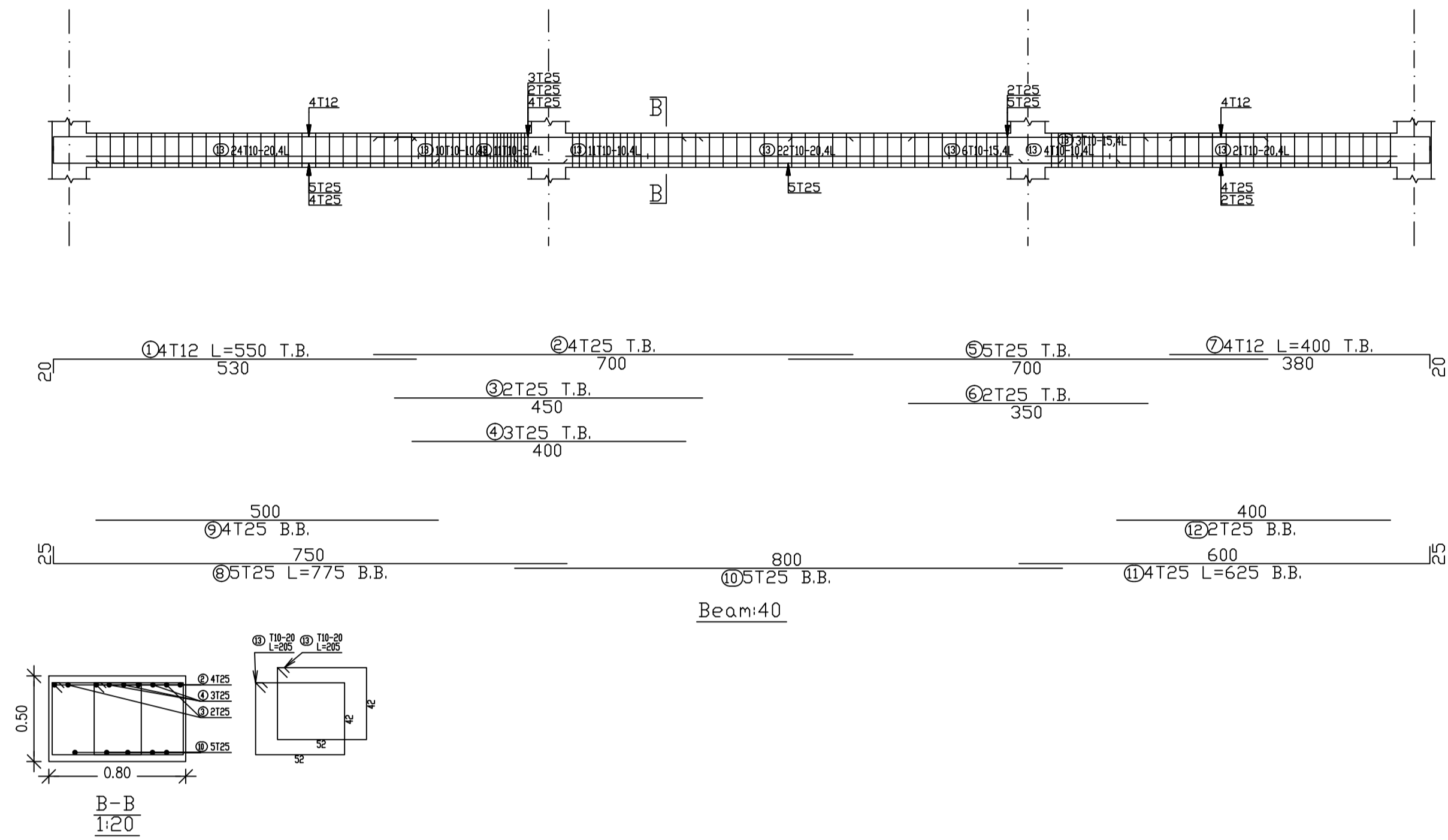
Done by :

*Hisham Shindy*  
*Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/100	S44	04/6/2024

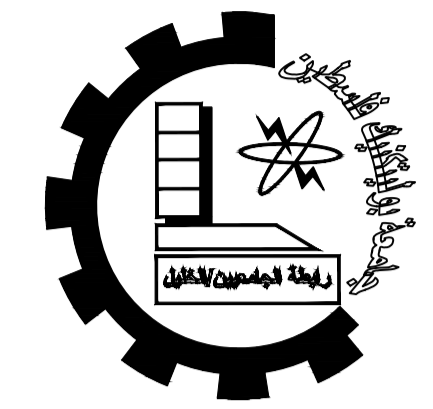
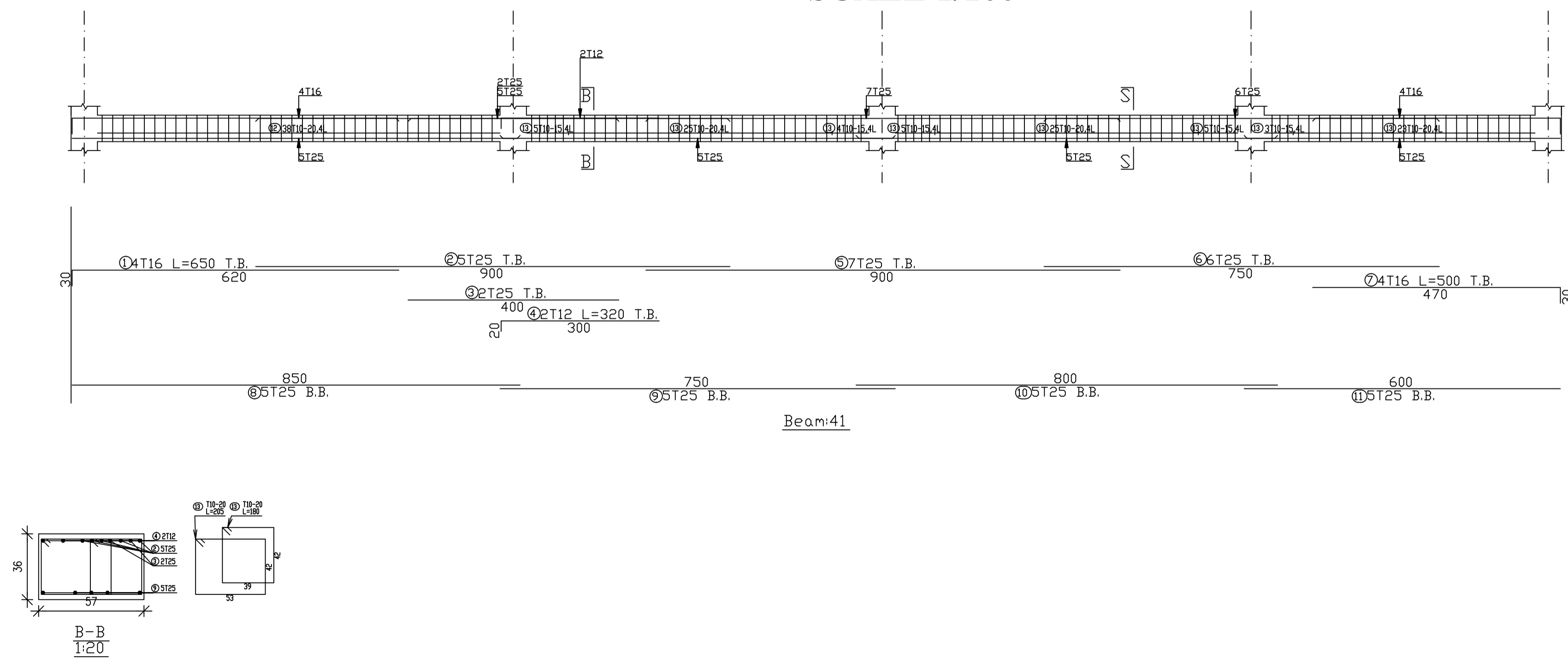
# BEAM 40

SCALE 1/100



# BEAM 41

SCALE 1/100



Palestine Polytechnic University

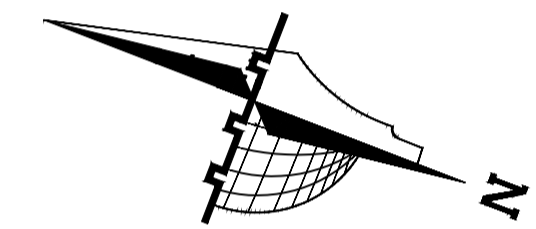
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 11&12

Supervisor

Dr. Nafeth Naesr aldeen

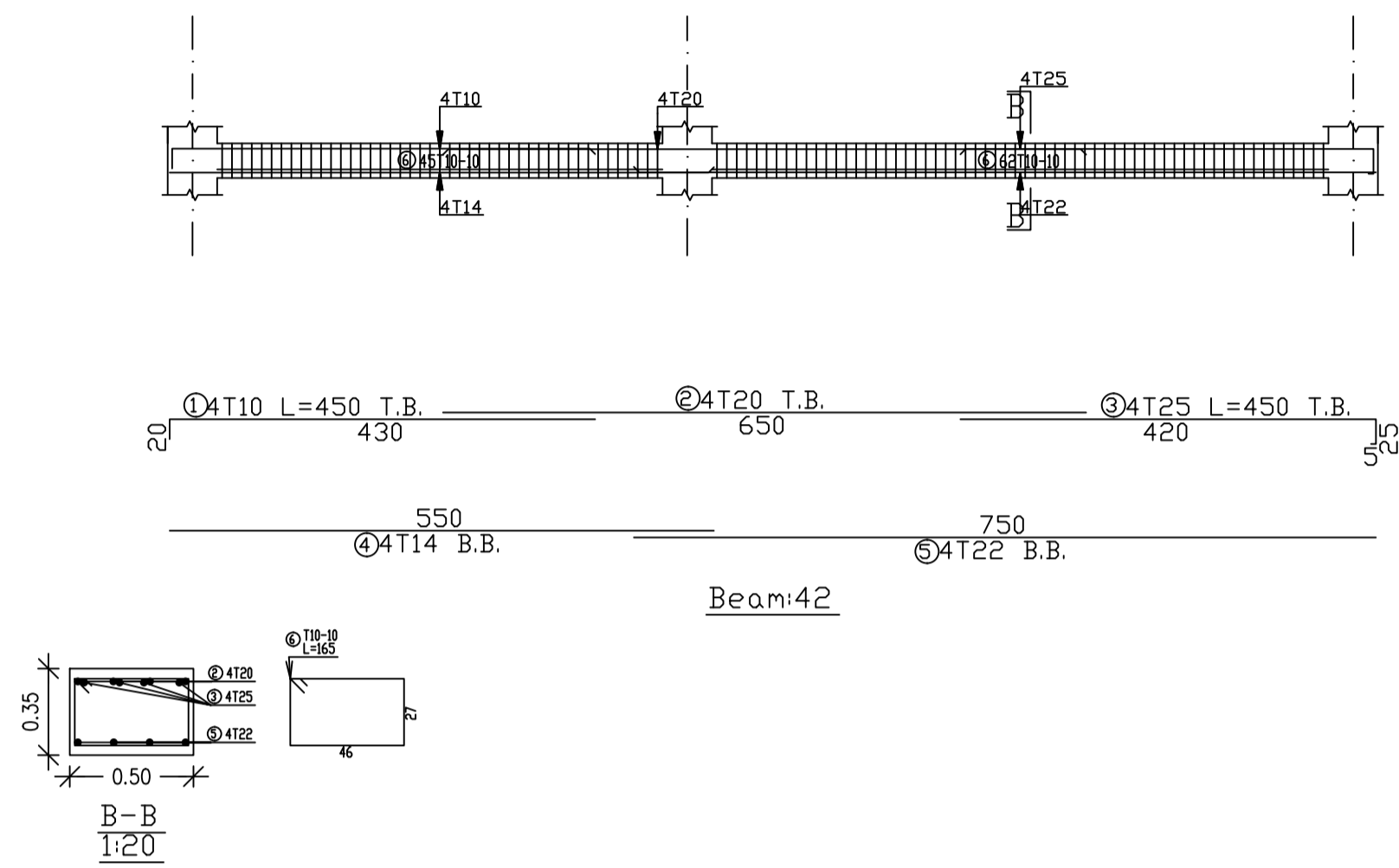
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S45	04/6/2024

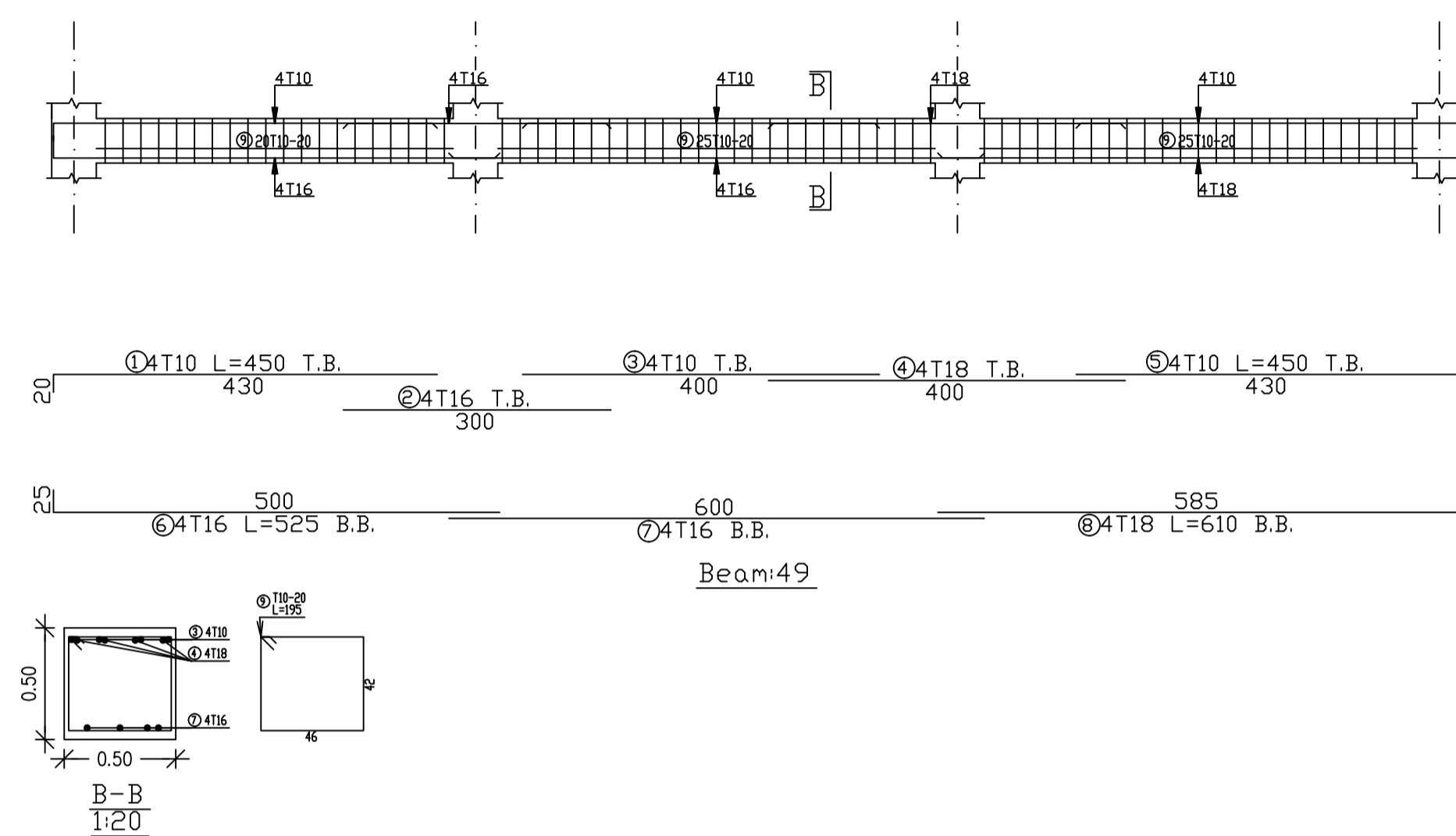
# BEAM 42

SCALE 1/100



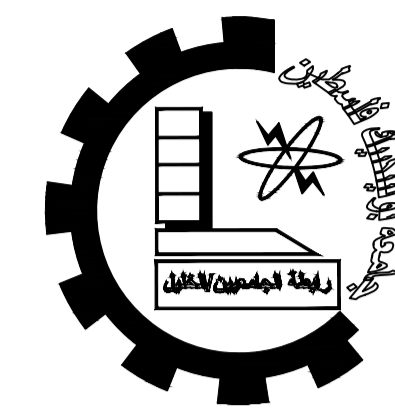
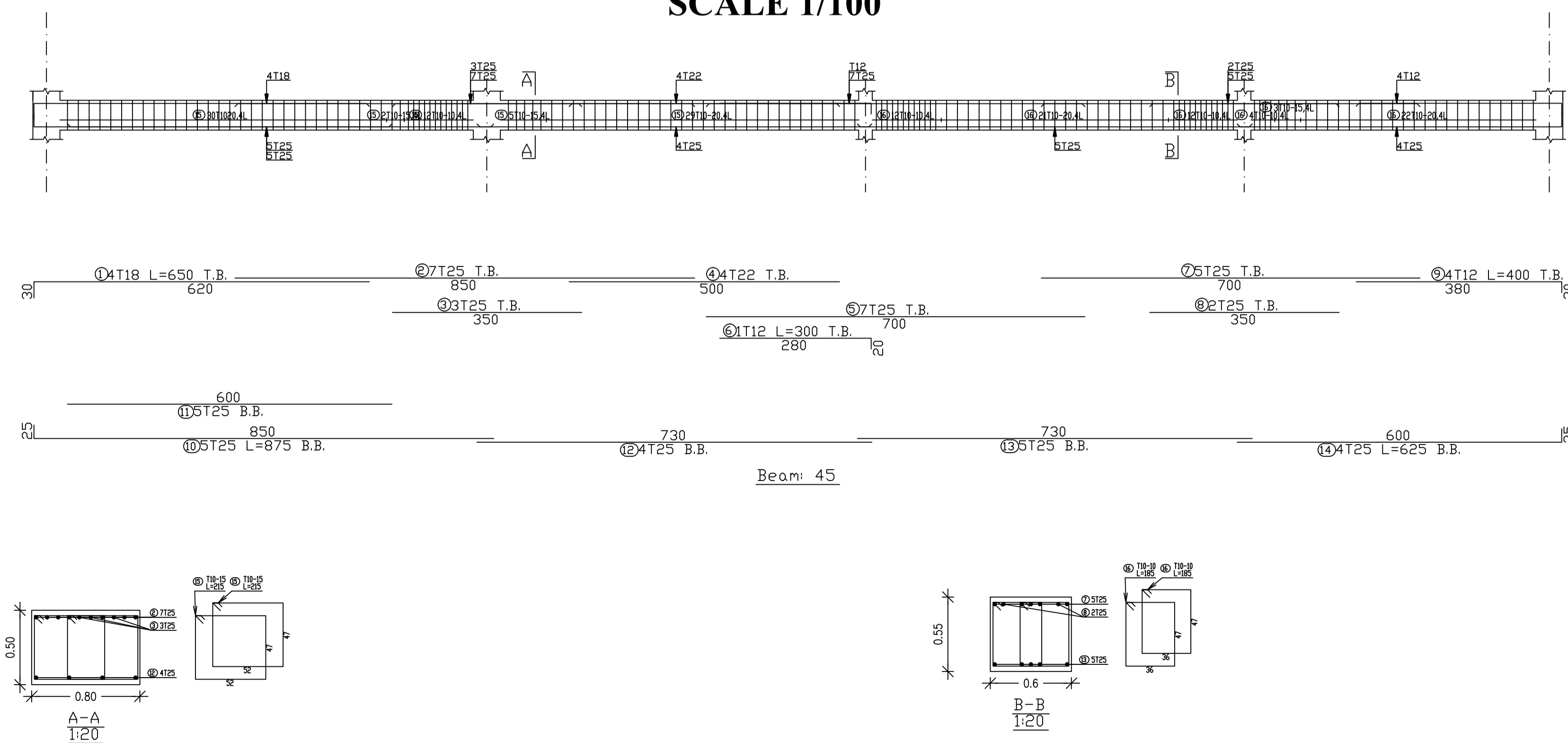
# BEAM 11

SCALE 1/100



# BEAM 45

SCALE 1/100



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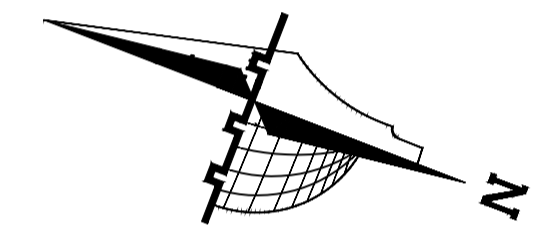
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

BEAMS 42&45&49

Supervisor

Dr. Nafeth Naesr aldeen

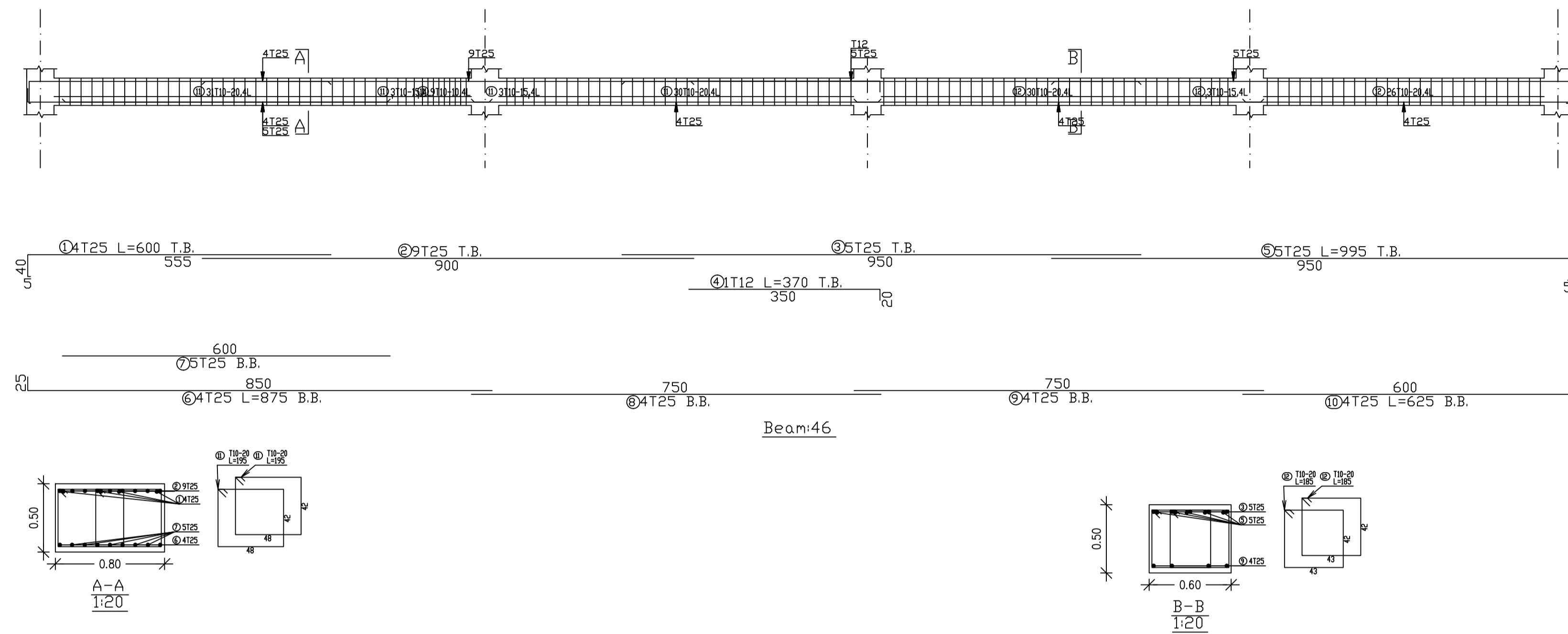
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S46	04/6/2024

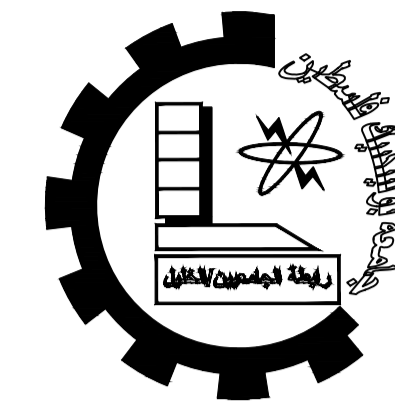
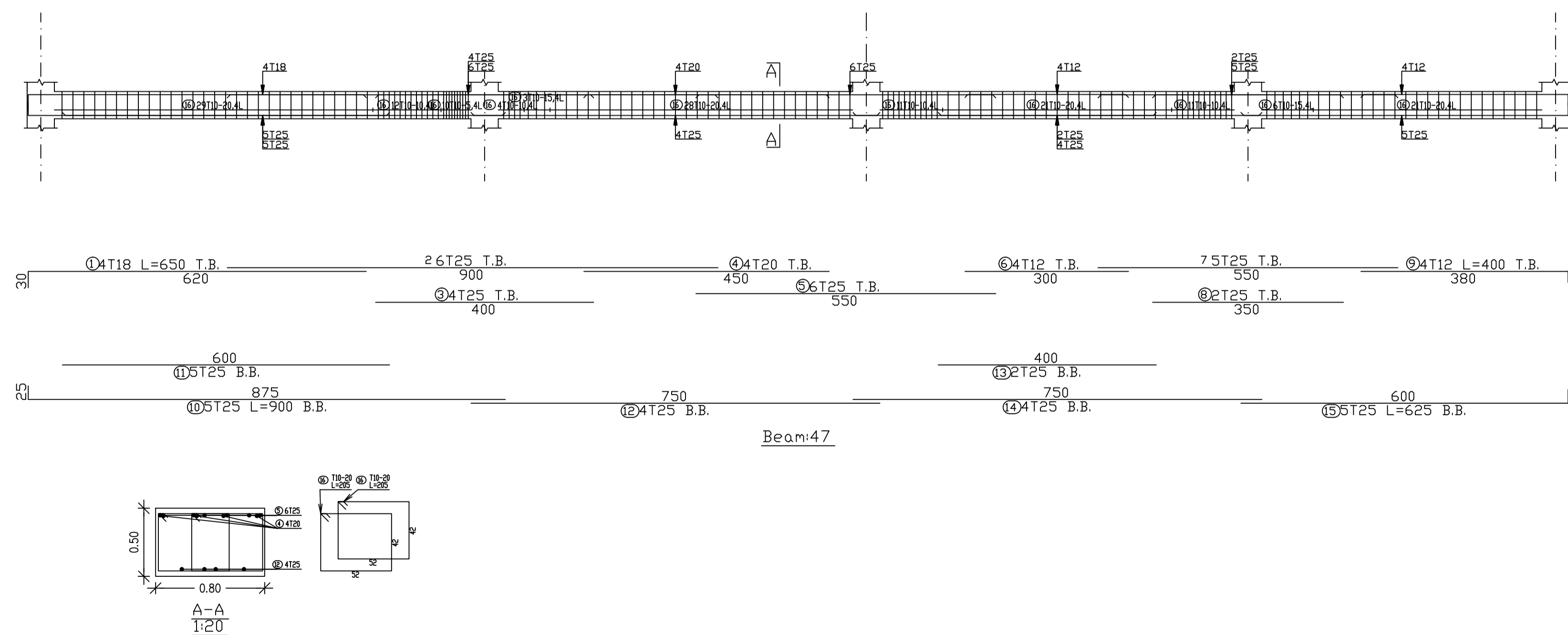
# BEAM 46

SCALE 1/100



# BEAM 47

SCALE 1/100



Palestine Polytechnic University

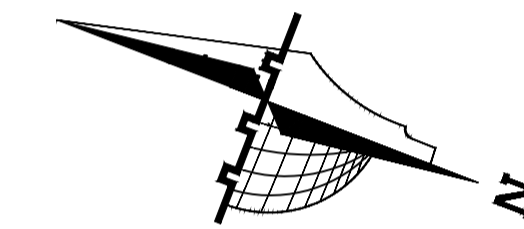
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 46&47

Supervisor

Dr. Nafeth Naesr aldeen

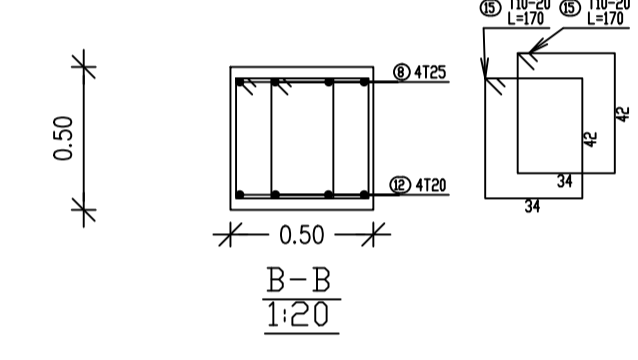
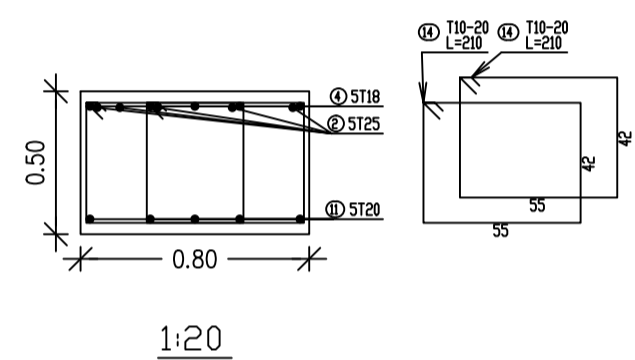
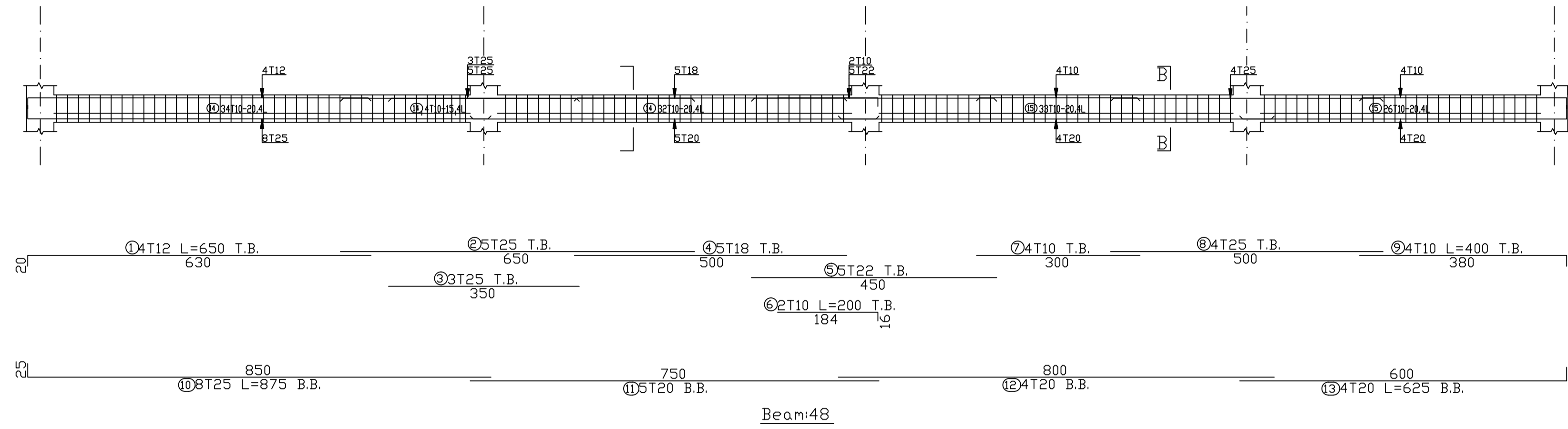
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S47	04/6/2024

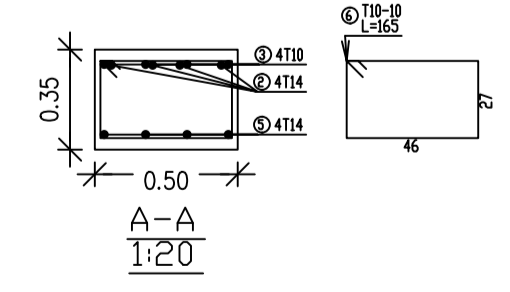
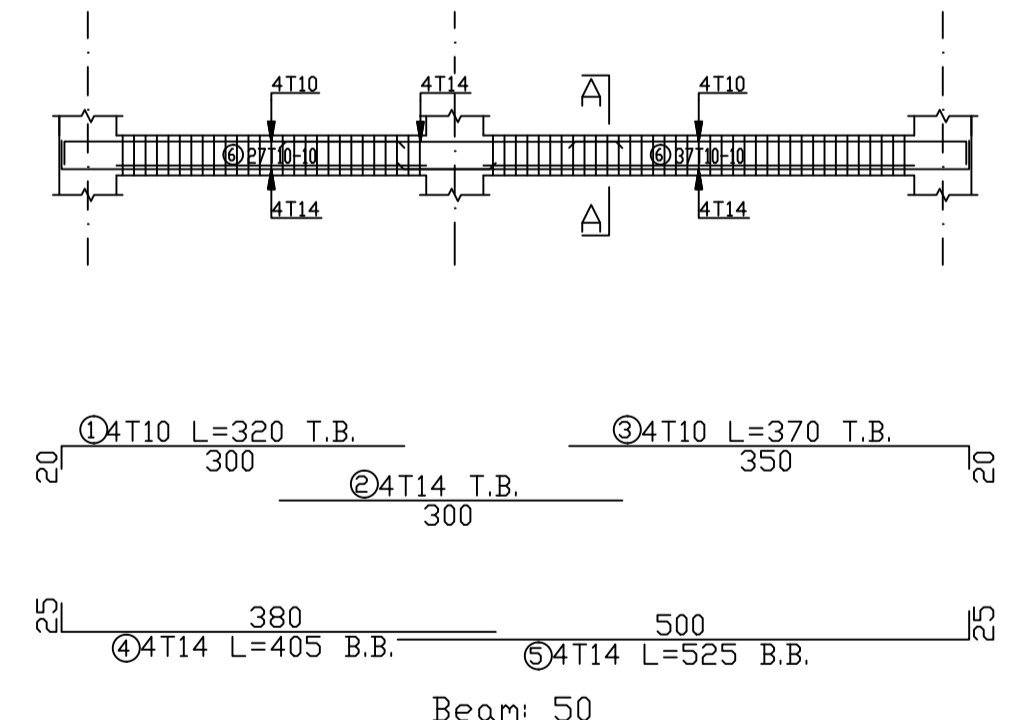
# BEAM 48

SCALE 1/100



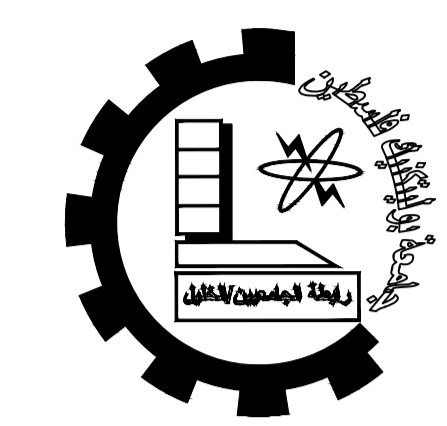
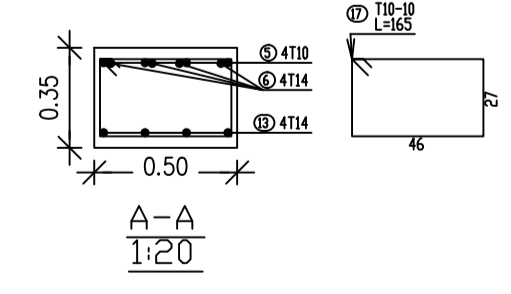
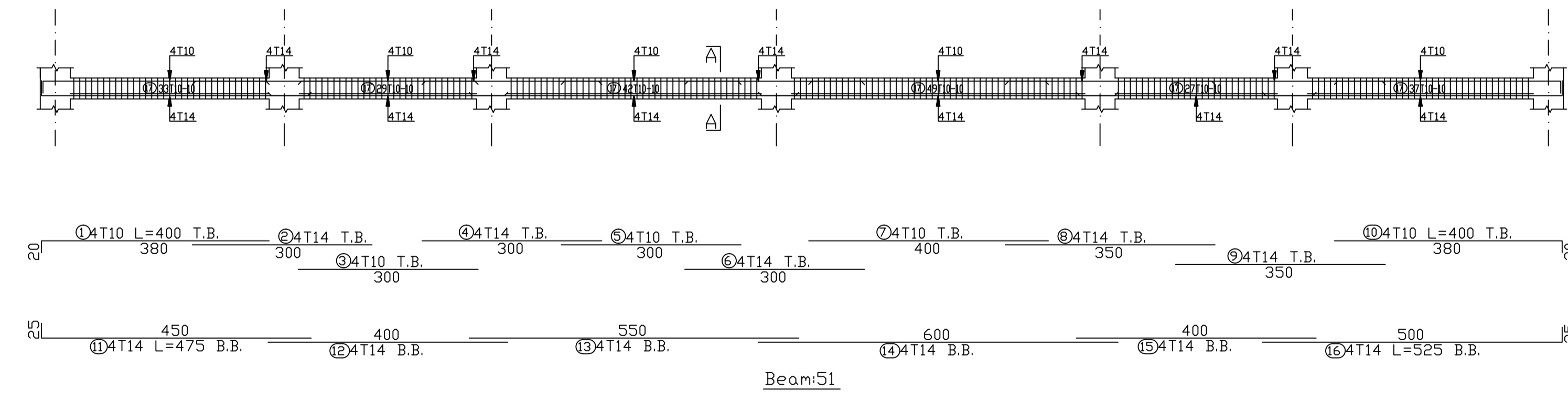
# BEAM 50

SCALE 1/100



# BEAM 51

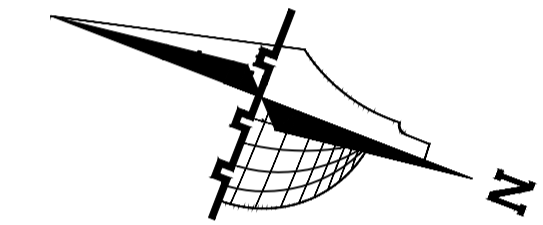
SCALE 1/100



Palestine Polytechnic University  
Engineering College  
Civil Department  
Civil Engineering

Graduation Project

Panorama Mall



**Legend :**

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materials
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

BEAMS 48&50&51

Supervisor

Dr. Nafeth Naesr aldeen

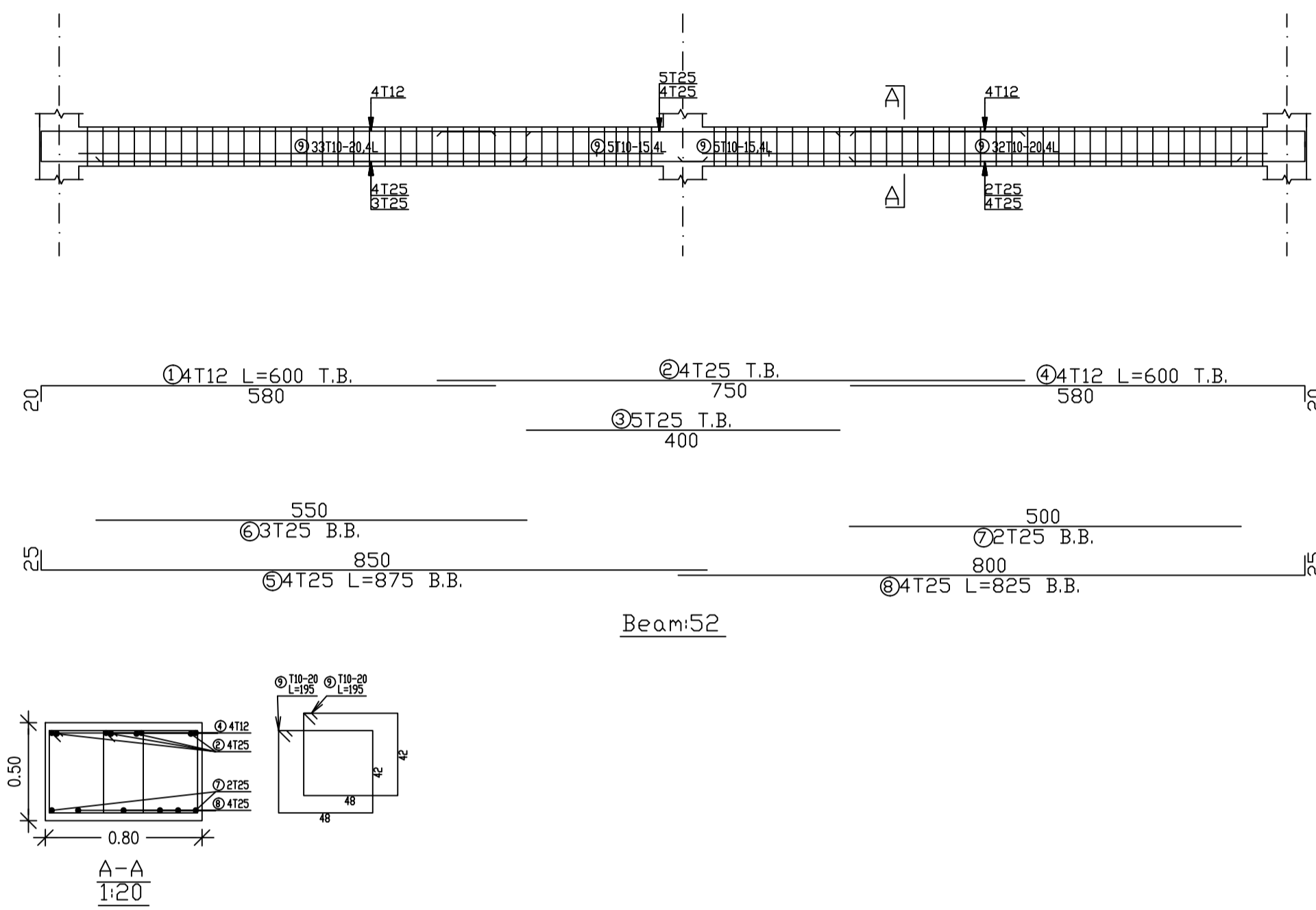
Done by :

Hisham Shindy  
Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/100	S48	04/06/2024

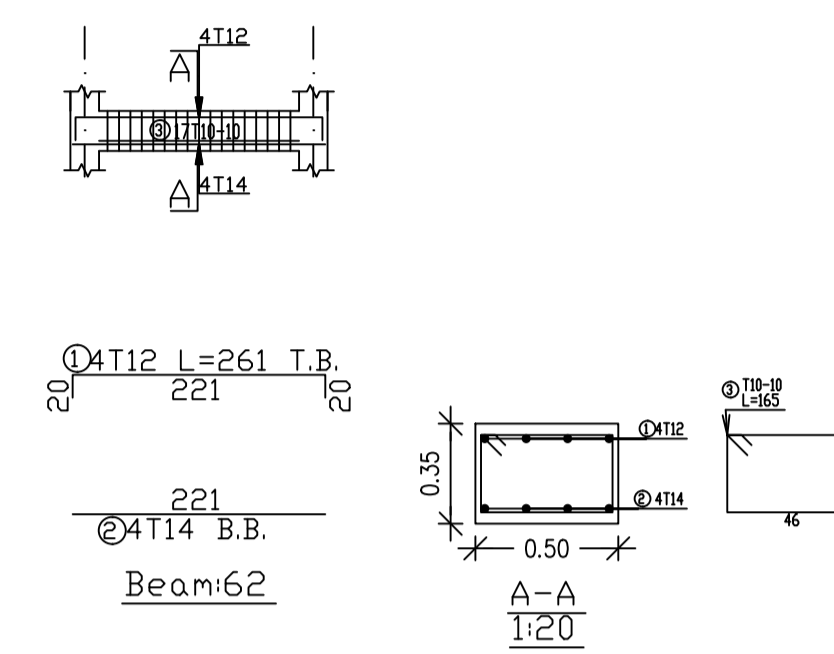
# BEAM 52

SCALE 1/100



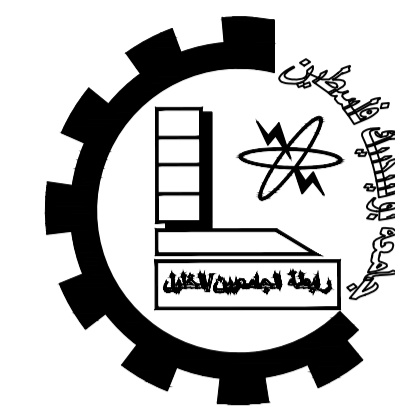
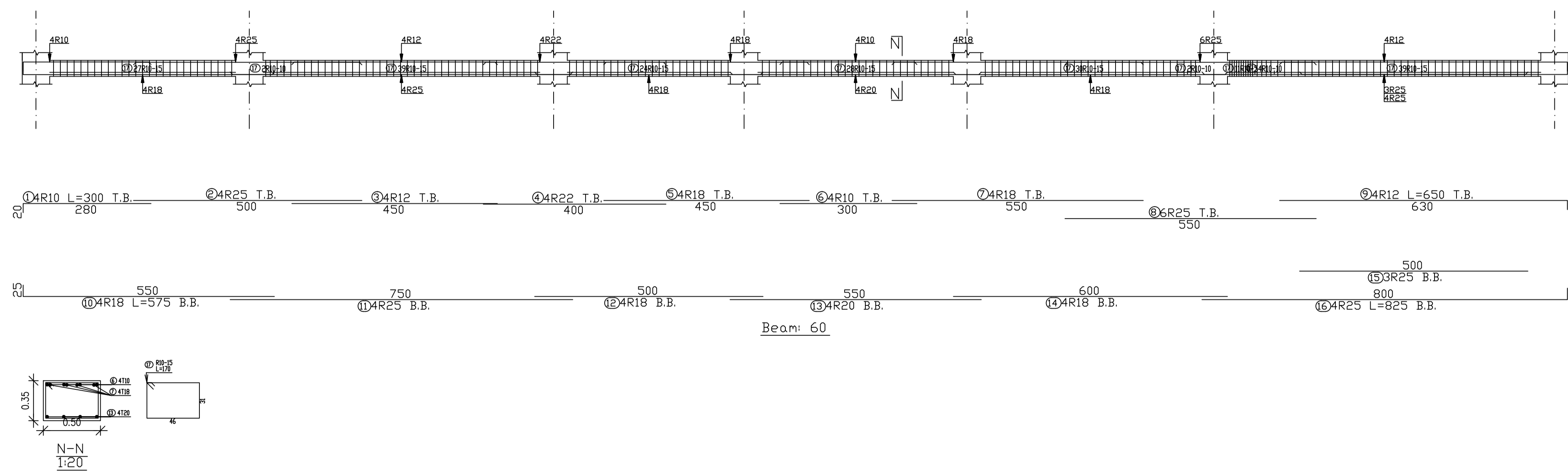
# BEAM 62

SCALE 1/100



# BEAM 60

SCALE 1/100



Palestine Polytechnic University

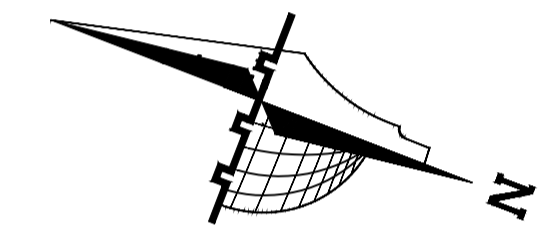
Engineering College

Civil Department

Civil Engineering

Graduation Project

Panorama Mall



### Legend :

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

BEAMS 52&60 62 &

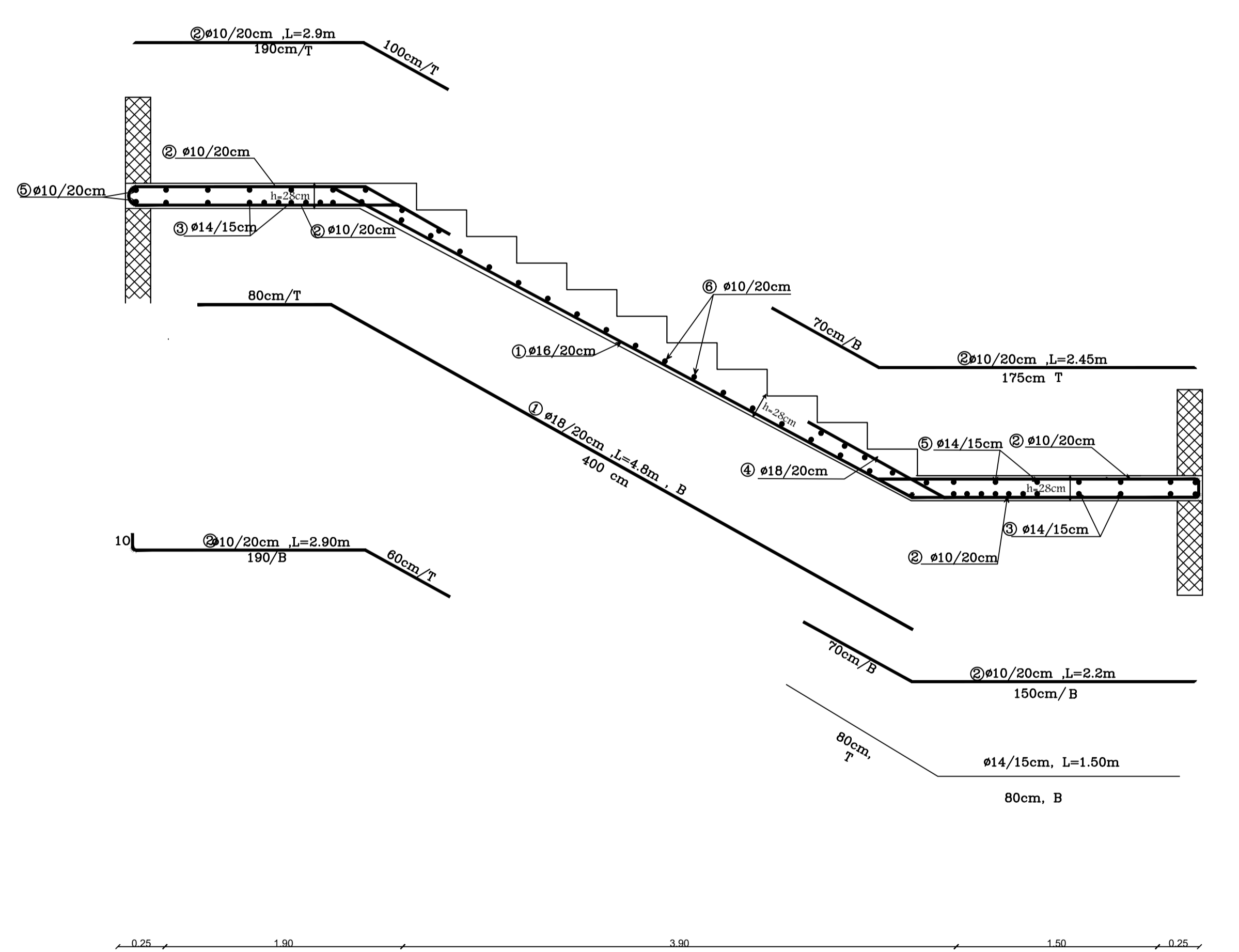
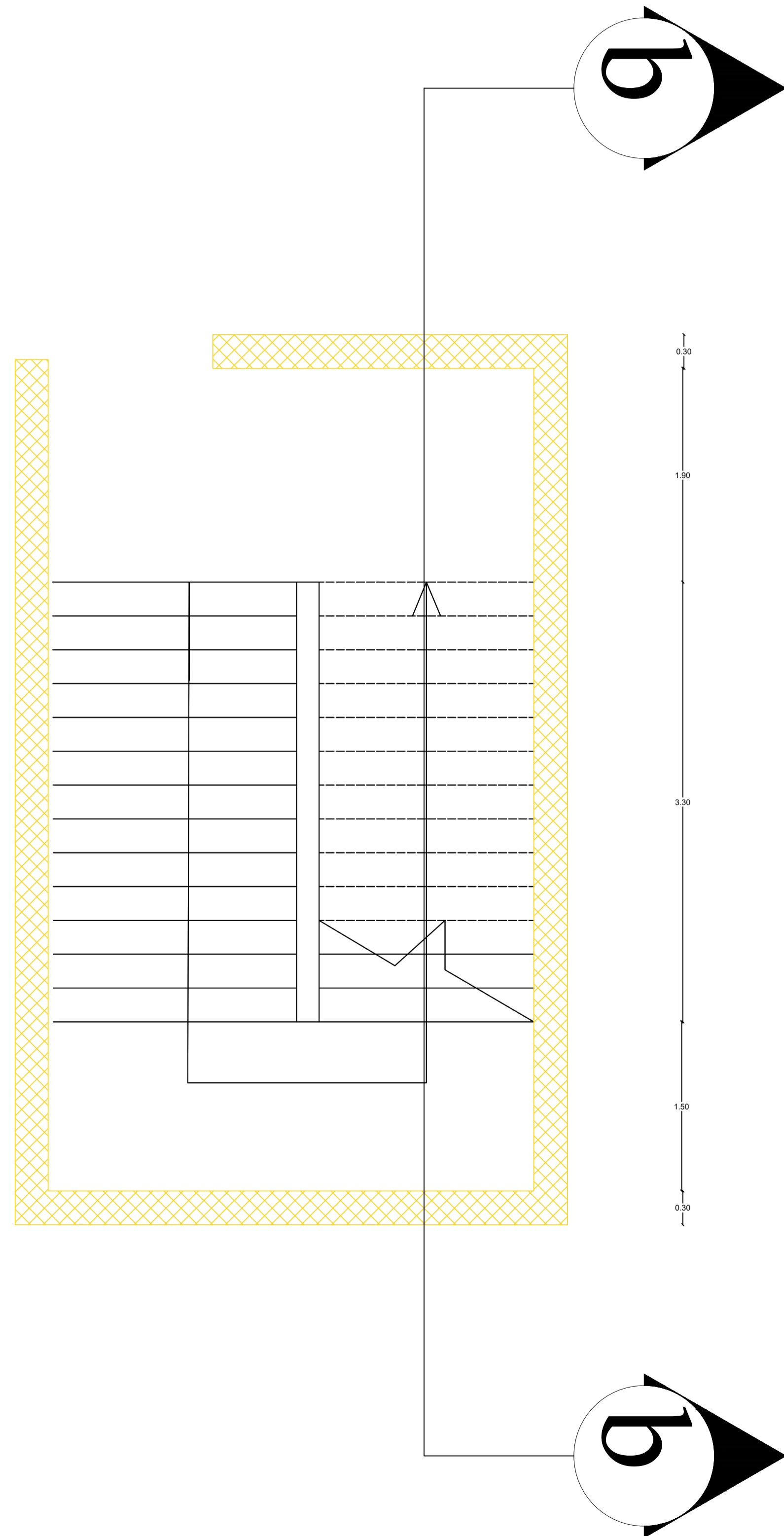
Supervisor

Dr. Nafeth Naesr aldeen

Done by :

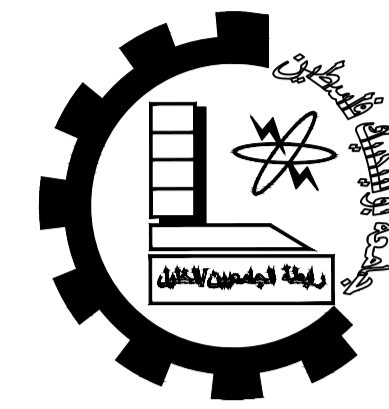
SCALE	No. of DRAW	DATE
1/100	S49	04/6/2024

# STAIR



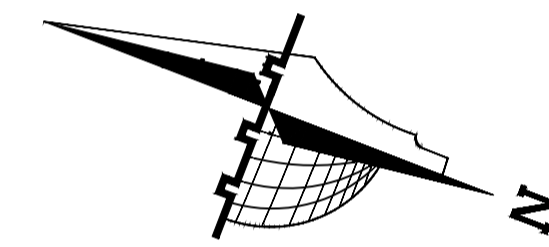
SECTION b-b

SCALE 1:20



Palestine Polytechnic University  
 College of Engineering  
 Civil Engineering Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



**Legend :**

- Stone
- Gravel
- R.Concrete
- Wood
- Concrete
- HEXAGONAL TILES
- Hollow Block
- BAKLAVA TILES
- isolating materials
- GRASS

DRAWING TITLE :

STAIR

Supervisor

Dr. Nafeth  
 Naesr aldeen

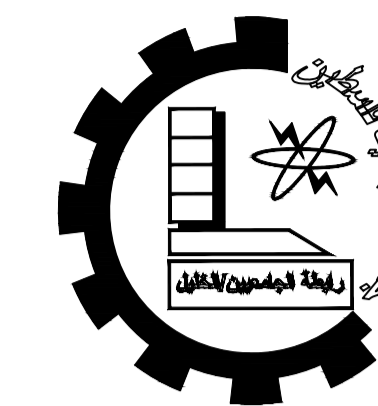
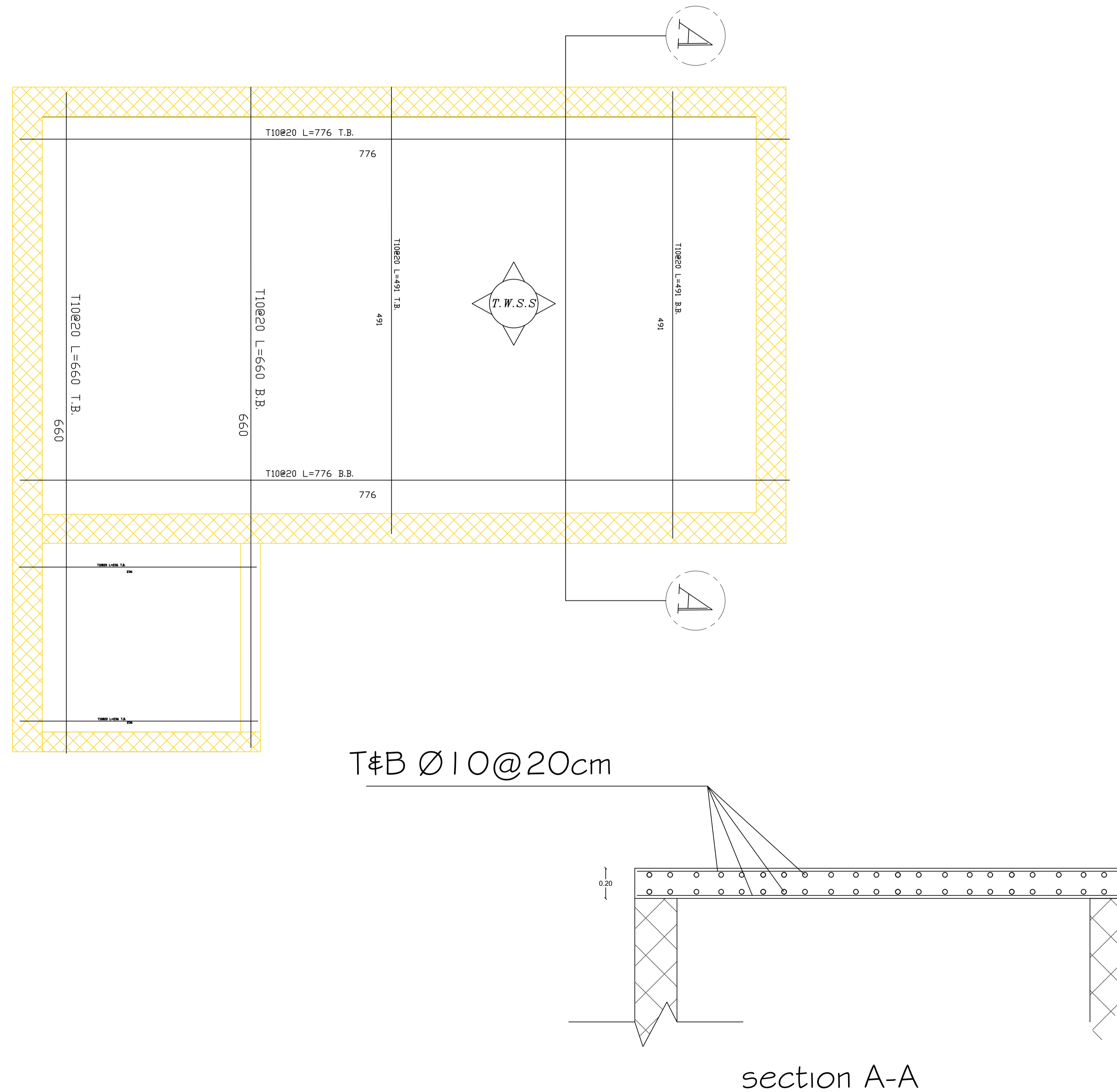
Done by :

Hisham Shindy  
 Ahmad Hajaj

SCALE	No. of DRAW	DATE
1/200	S50	04/6/2024

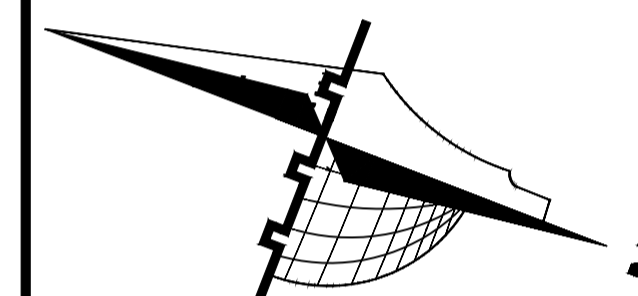
# STAIRCASE FLOOR STEEL DISTRIBUTION & REINFORCEMENT

## SCALE: 1/20



Palestine Polytechnic University  
 Engineering College  
 Civil Department  
 Civil Engineering  
 Graduation Project

Panorama Mall



### Legend :

- Stone
- R.Concrete
- Concrete
- Hollow Block
- isolating materiales
- Gravel
- Wood
- HEXAGONAL TILES
- BAKLAVA TILES
- GRASS

DRAWING TITLE :

Supervisor  
*Dr. Nafeth Naesr aldeen*

Done by :  
*Hisham Shindy Ahmad Hajaj*

SCALE	No. of DRAW	DATE
1/100	S51	04/06/2024