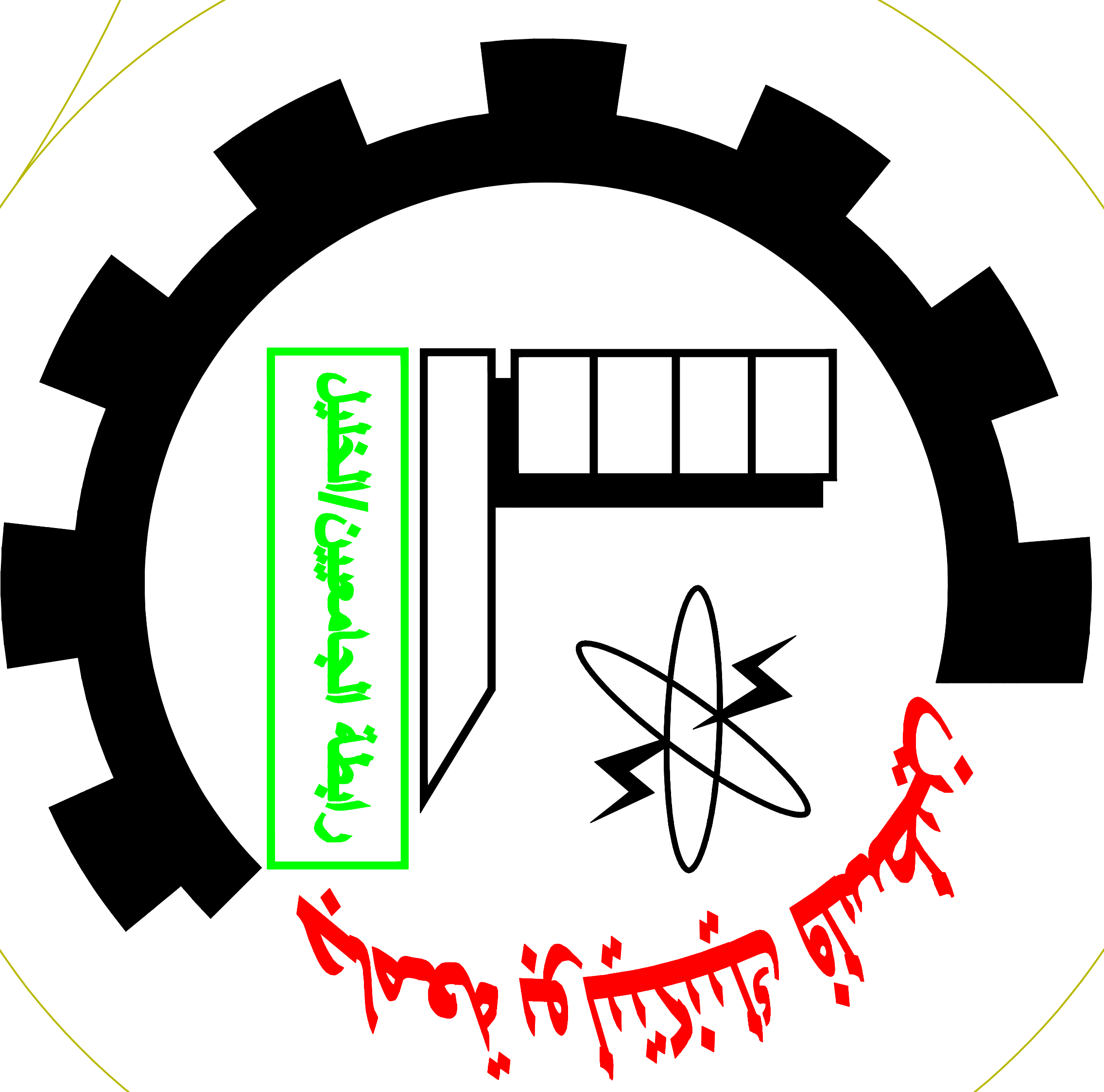


Palestine Polytechnic University

College of Engineering and Technology

Building Engineering

college of Arts & Architecture



Done by :

Israa Rabai

Omar Khamayseh

Issam Hassouna

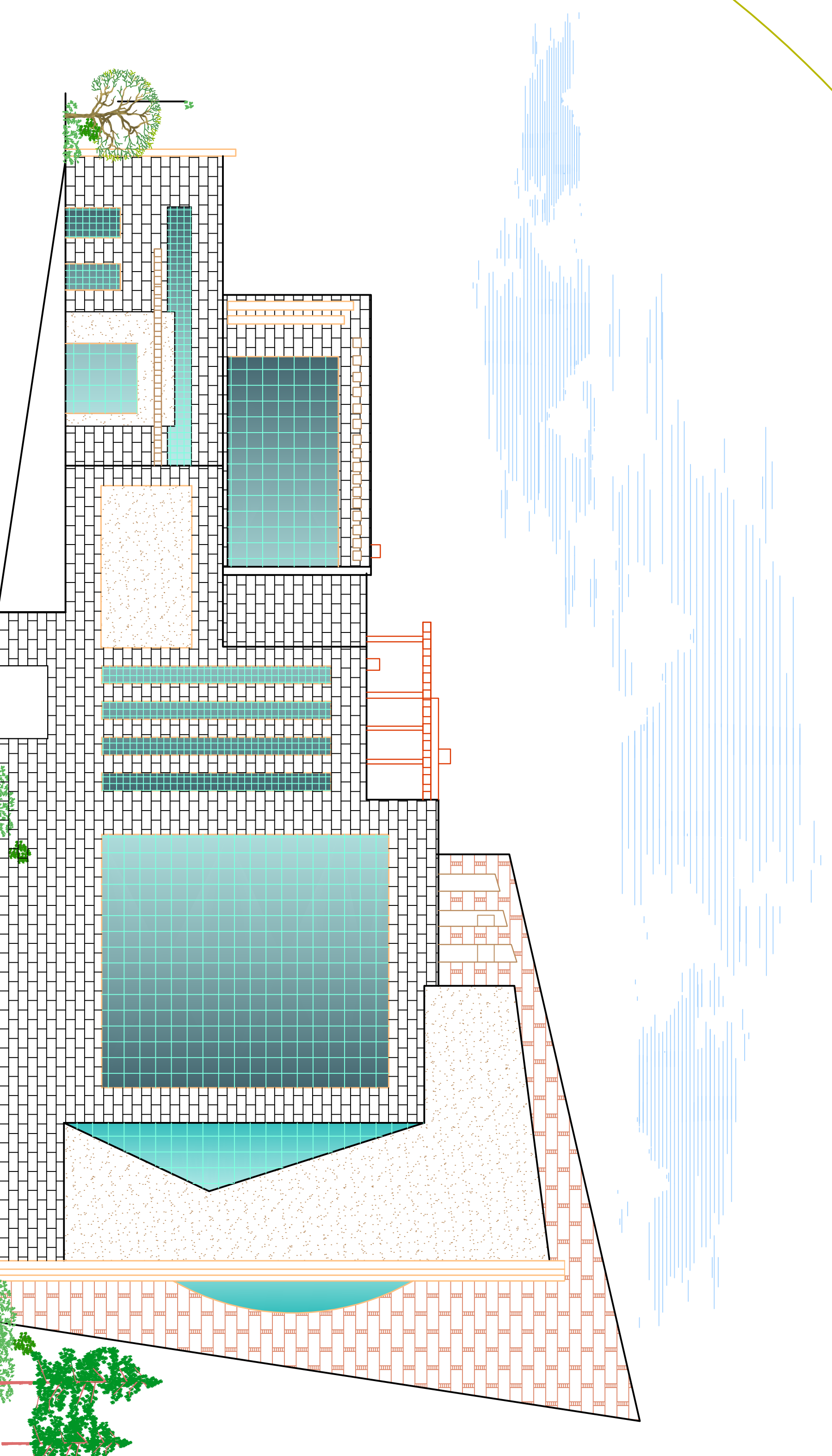
Abed Al-Fatah Jawabreh

Mohammad Abu Zalath

Supervised by :

Dr. Mohammad Taha

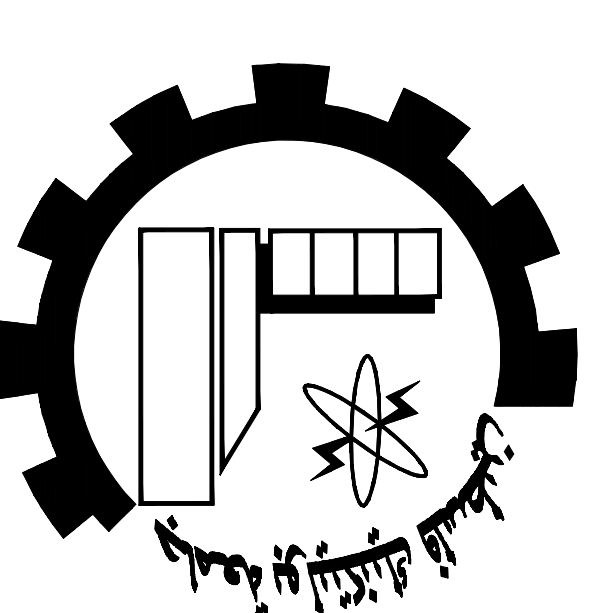
Date : 8/5/2017



LIST OF DRAWINGS

ARCHITECTURAL		Key Plans		
DWG.NO.	DWG.TITLE.	DWG.NO.	DWG.TITLE.	
A 00	Site Plan	S 00	General Notes	S31-S42
A 01	Basement Floor Plan	S 01	Columns Axes	S43-S44
A 02	Ground Floor Plan	S02-S04	Mat Foundation Details	
A 03	First Floor Plan	S05	Elevator Foundation Details	
A 04	Second Floor Plan	S06-S12	Coulnms Details	
A 05	Third Floor Plan	S13-S18	Shear Walls Details	
A 06	Fourth Floor Plan	S19	Basement Floor Slab	
A 07	Fifth Floor Plan	S20	Ground Floor Slab	
A 08	East and West Elevations	S21	First Floor Slab	
A 09	North and South Elevations	S22	Second Floor Slab	
A 10	Section A-A and B-B	S23	Third Floor Slab	
		S24	Fourth Floor Slab	
		S25	Fifth Floor Slab	
		S26	Studs Details	
		S27	Post Tension Details	
		S28	Top and Bottom Reinforcement For Post Tension Basement, Ground and First Floor	
		S29	Post Tension Details	
		S30	Top and Bottom Reinforcement For Post Tension Second and Third Floor	

GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatrah Jawabreh

Mohammad Abu Zalzath

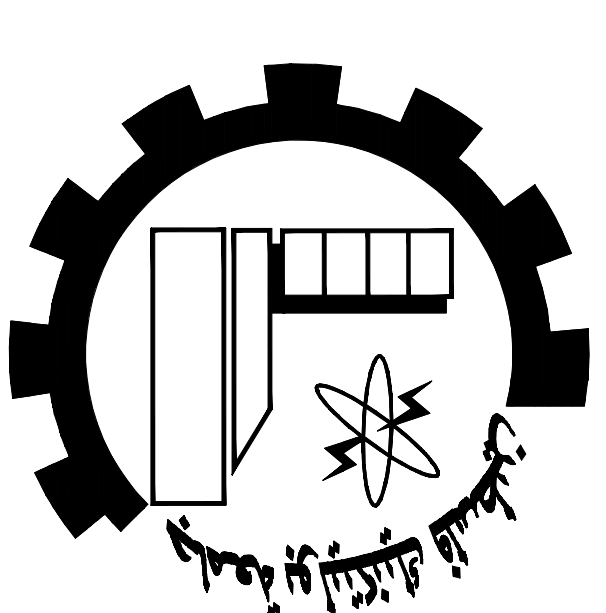
Drawing Title :

List of Drawings

Supervisor :

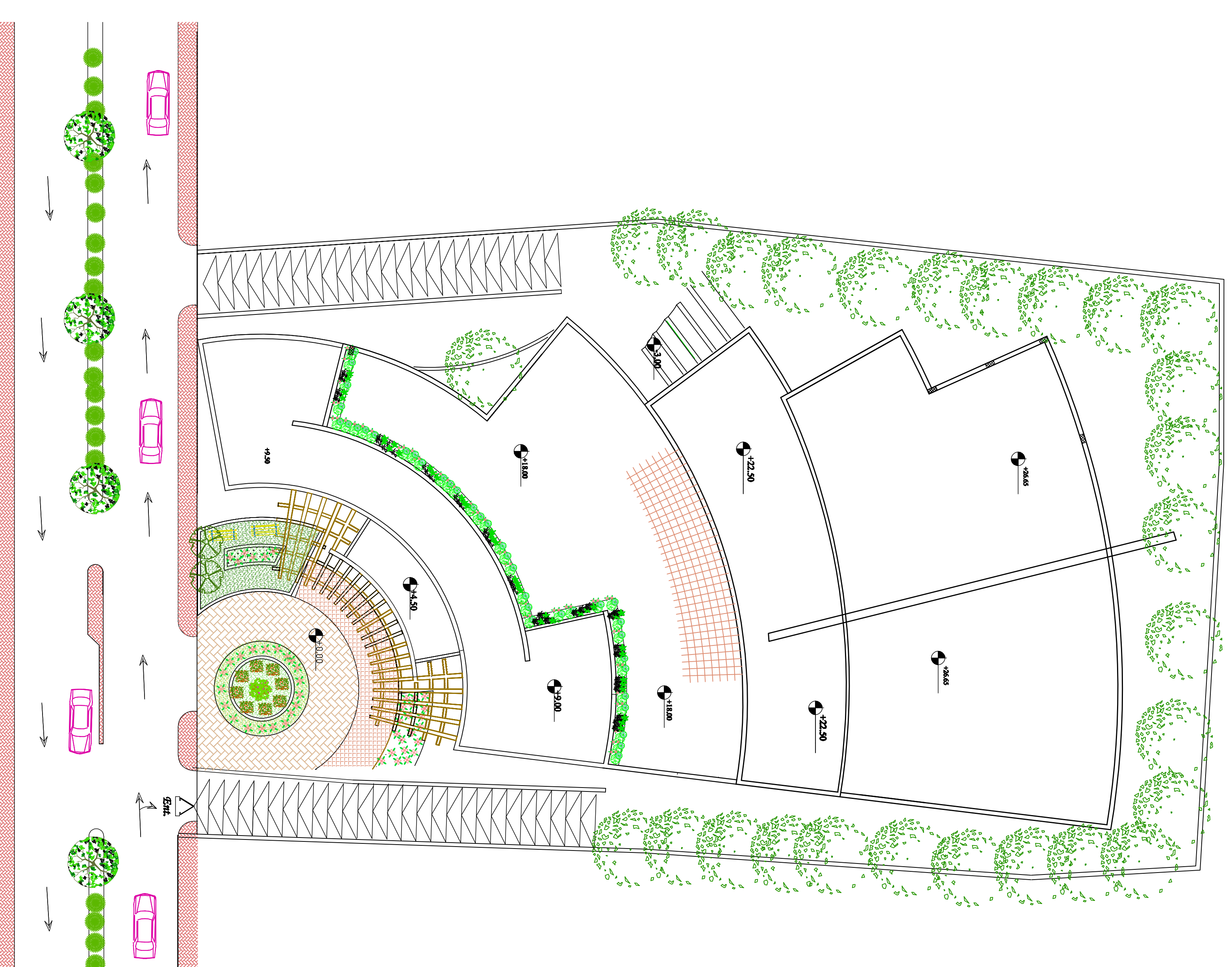
Dr. Mohammad Taha

GENERAL NOTES



NOTES:

all dimensions are in millimeters]
unless otherwise shown.
all spot levels are in meters.



Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

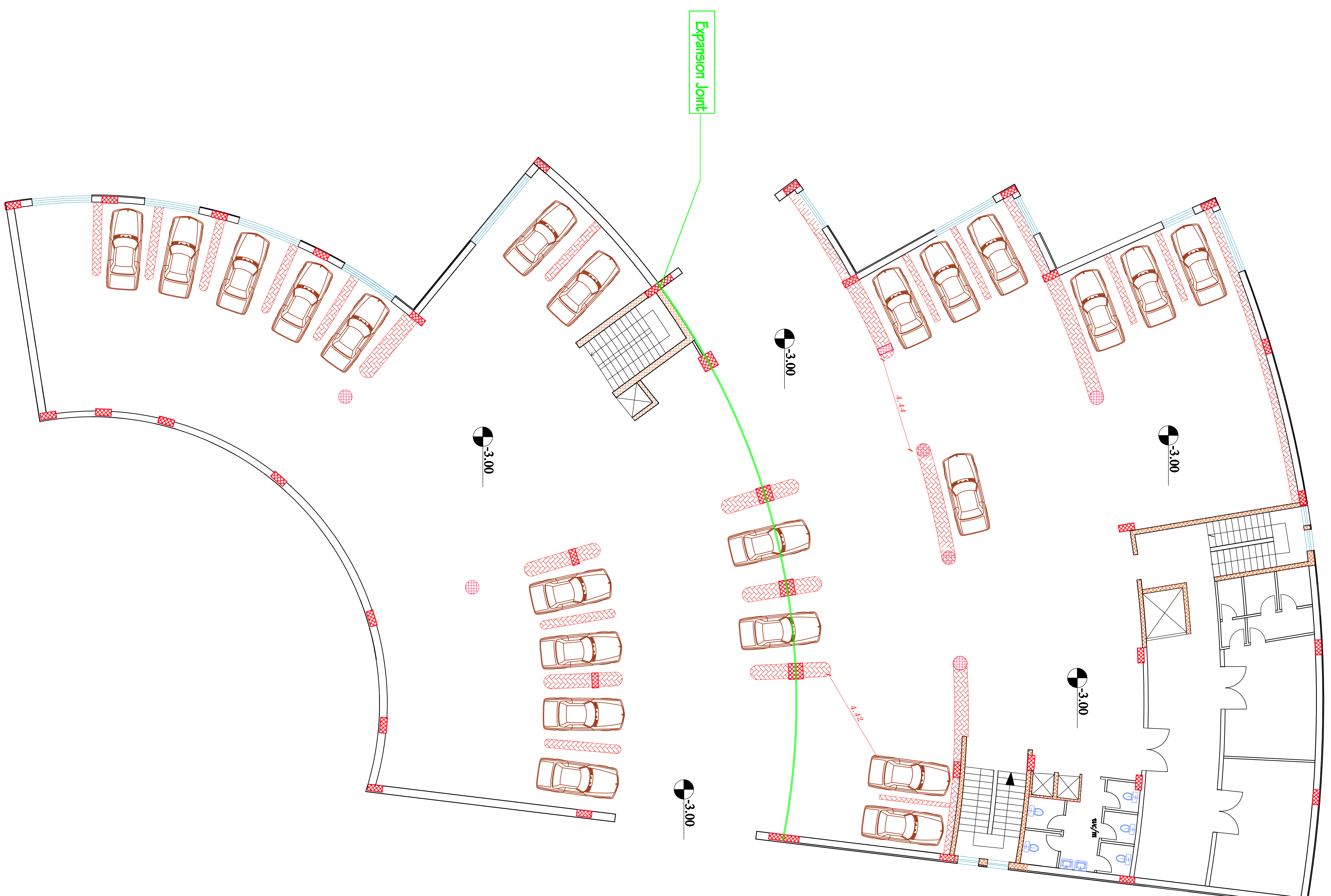
Site plan

Supervisor :

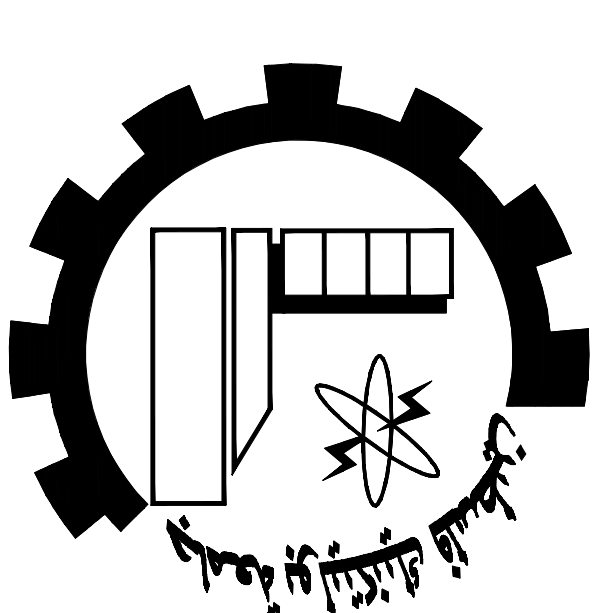
Dr. Mohammad Taha

SCALE:

1/200 **A00**



GENERAL NOTES



Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Basement Floor Plan

Supervisor :

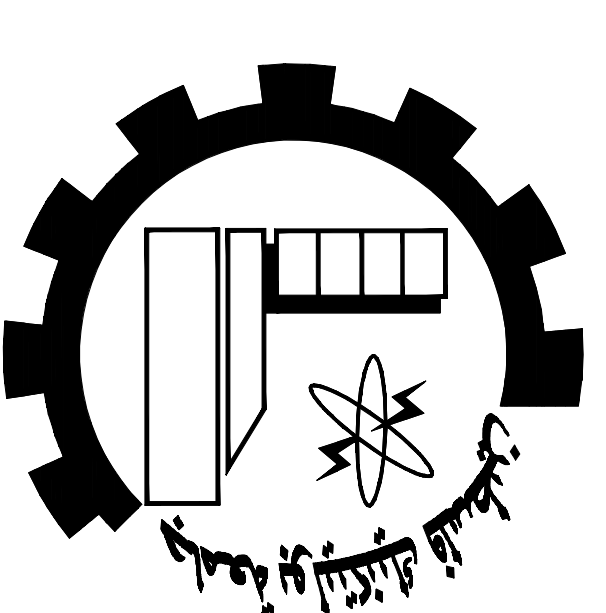
Dr. Mohammad Taha

SCALE:

1/100

A01

GENERAL NOTES



Palestine Polytechnic University
Civil, Arch. Eng. Department
Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Ground Floor Plan

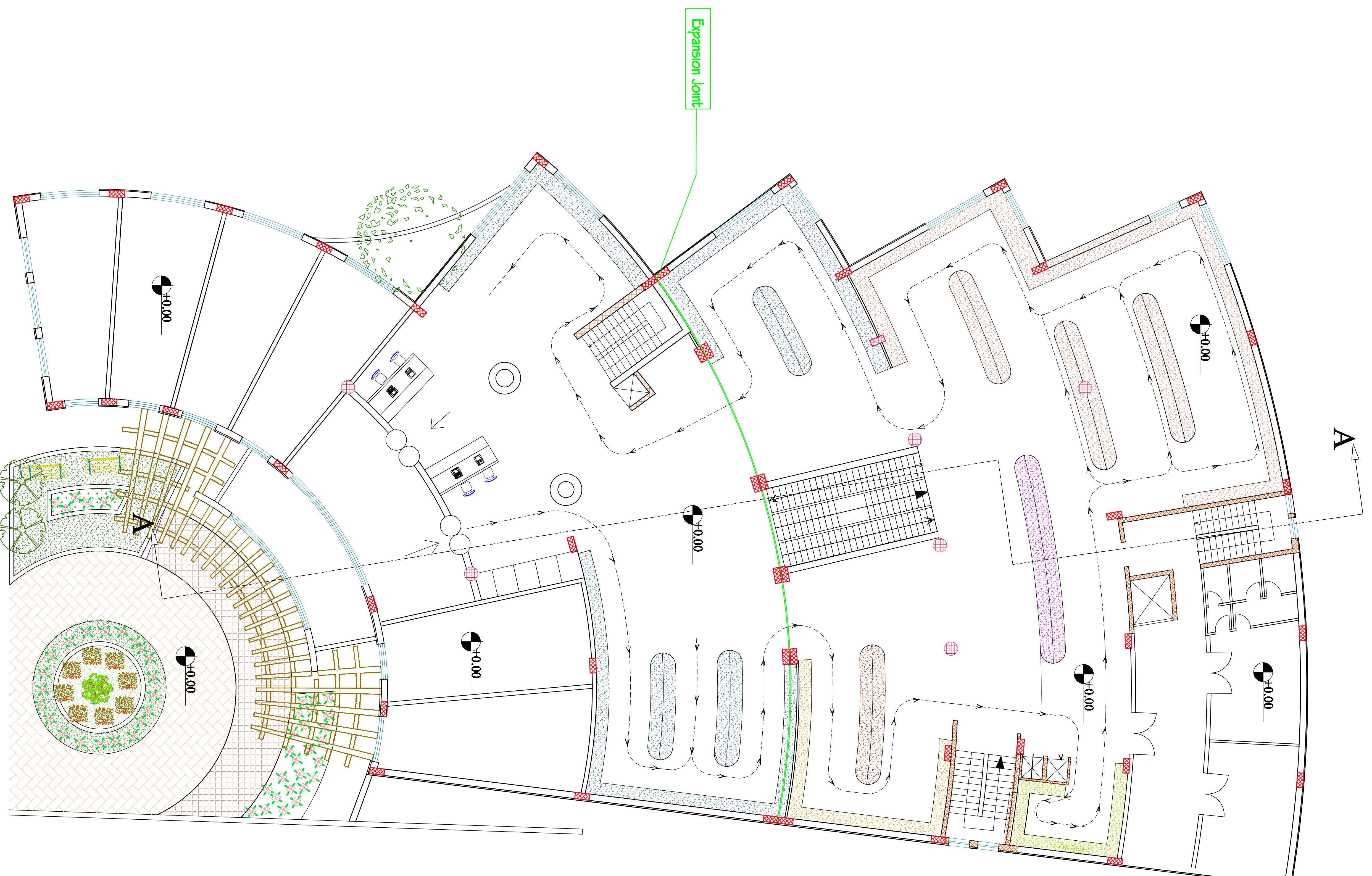
Supervisor :

Dr. Mohammad Taha

SCALE:

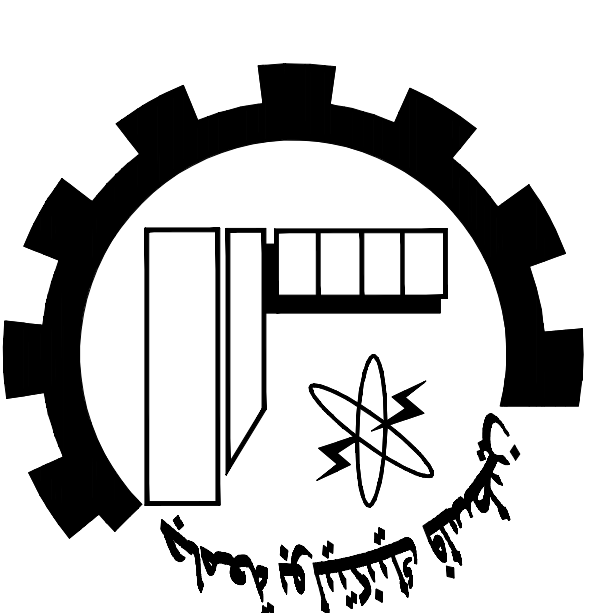
1 / 100

A02



<i>Legend</i>	
<i>Cans zone</i>	
<i>Fruits zone</i>	
<i>Meat, fish zone</i>	
<i>cleaning tools zone</i>	
<i>Diabetes zone</i>	
<i>Vegetables zone</i>	
<i>Beverages zone</i>	
<i>SWEET zone</i>	

GENERAL NOTES



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Civil, Arch. Eng. Department
Building Engineering

Designed By:
Israa Rabai

Omar Khamayseh
Issam Hassouna

Abed Al-fatah Jawabreh
Mohammad Abu Zalath

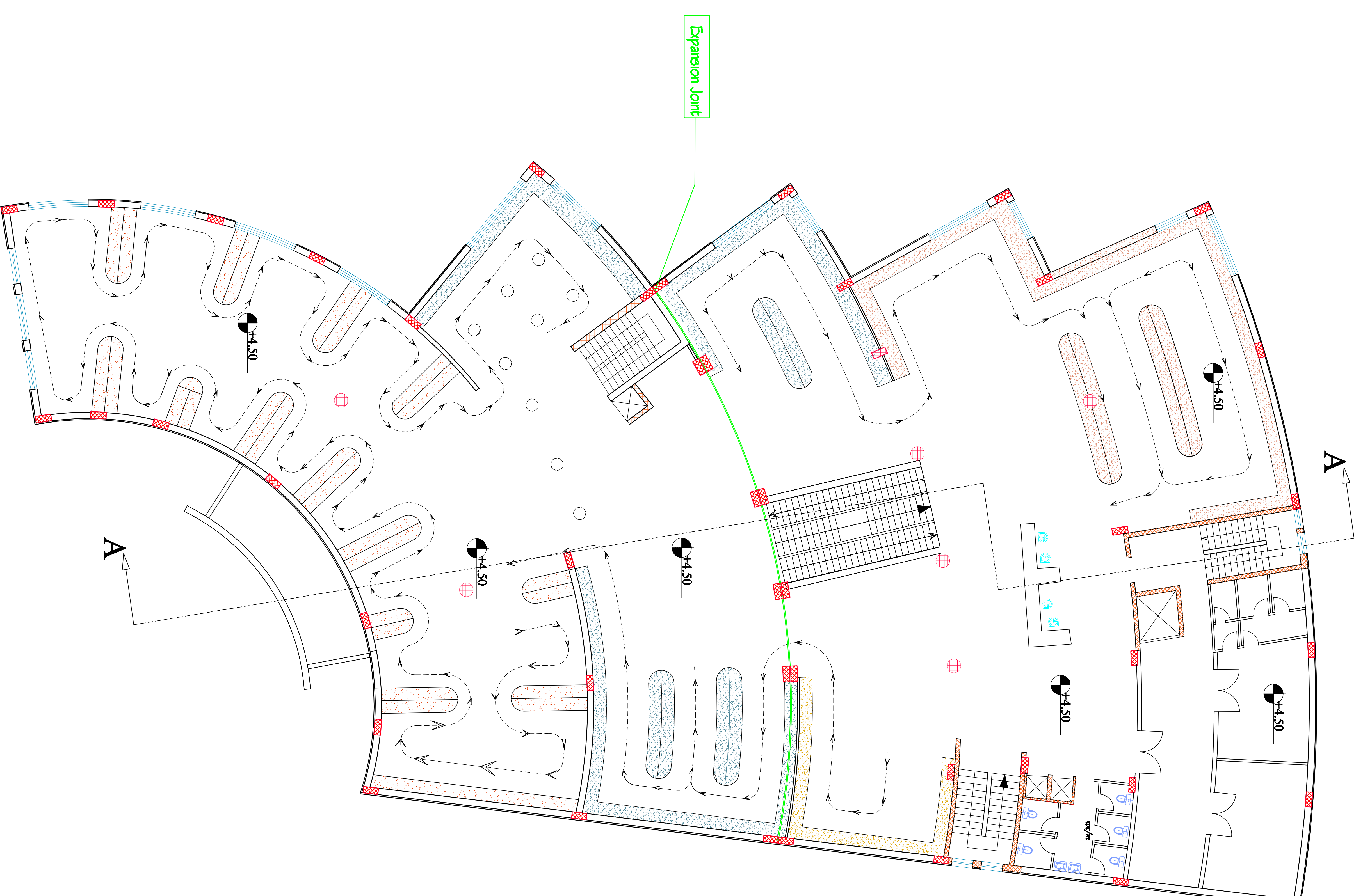
Drawing Title :
First Floor Plan

Supervisor :
Dr. Mohammad Taha

SCALE:

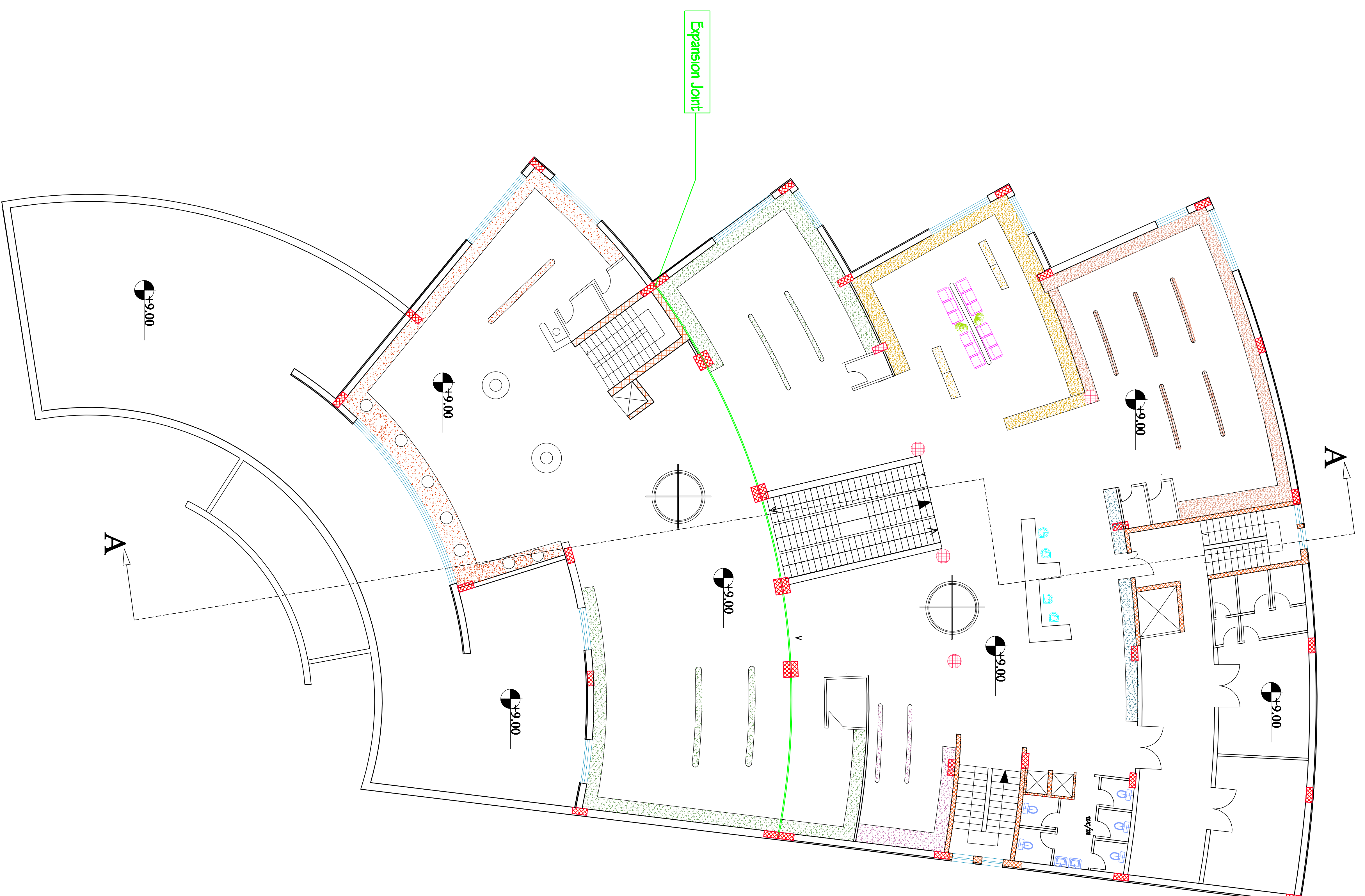
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A03

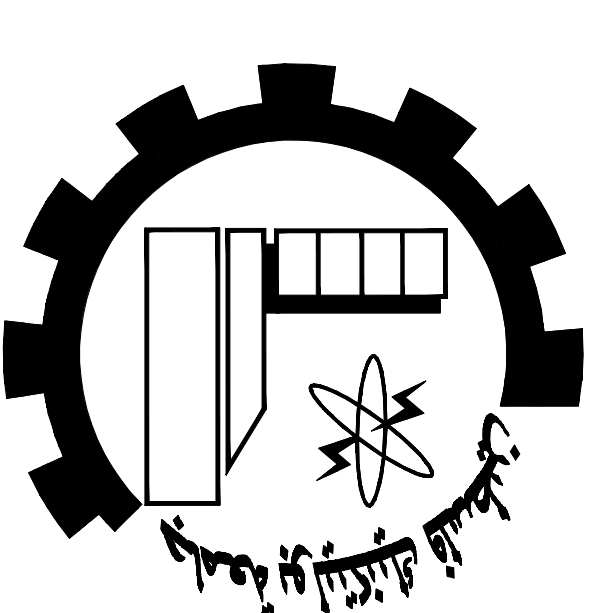


<i>Legend</i>	
<i>Kitchen tools zone</i>	
<i>Rose zone</i>	
<i>Antiques and gifts</i>	
<i>Glass zone</i>	

Legend	
	Children's clothes zone
	Shoes zone
	clothes 'Women' zone
	Perfumes and hairs
	Wedding clothes
	Accessories



GENERAL NOTES



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Civil, Arch. Eng. Department
Building Engineering

Designed By:
 Israa Rabai

Omar Khamayseh
 Issam Hassouna

Abed Al-fatrah Jawabreh
 Mohammad Abu Zalath

Drawing Title :
 Second Floor Plan

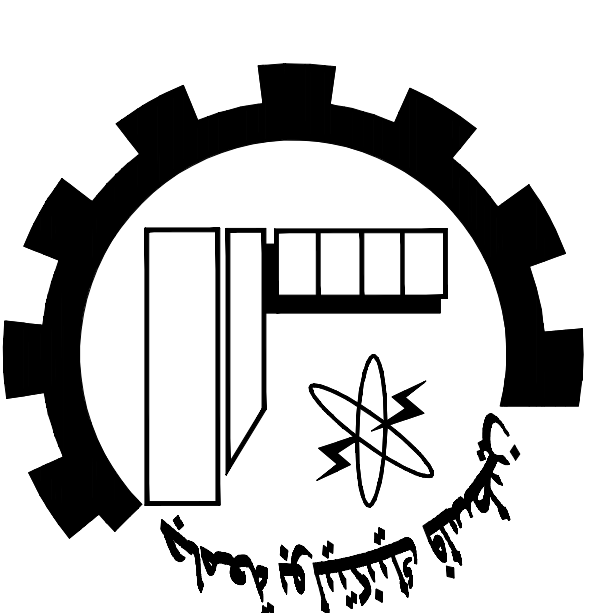
Supervisor :
 Dr. Mohammad Taha

SCALE:

1/100

A04

GENERAL NOTES



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Civil, Arch. Eng. Department
Building Engineering

Designed By:
Israa Rabai

Omar Khamayseh
Issam Hassouna

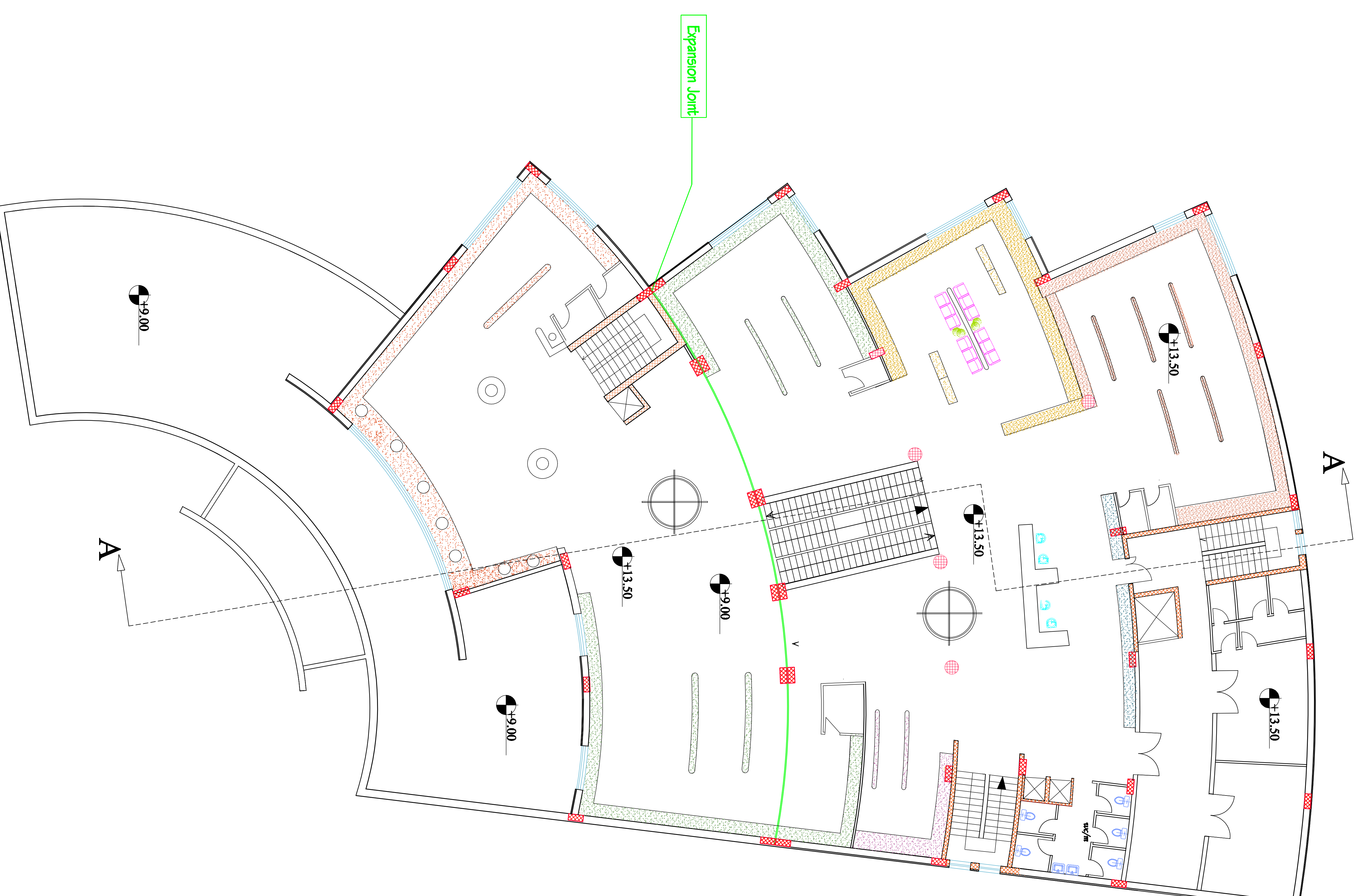
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Mohammad Abu Zalath

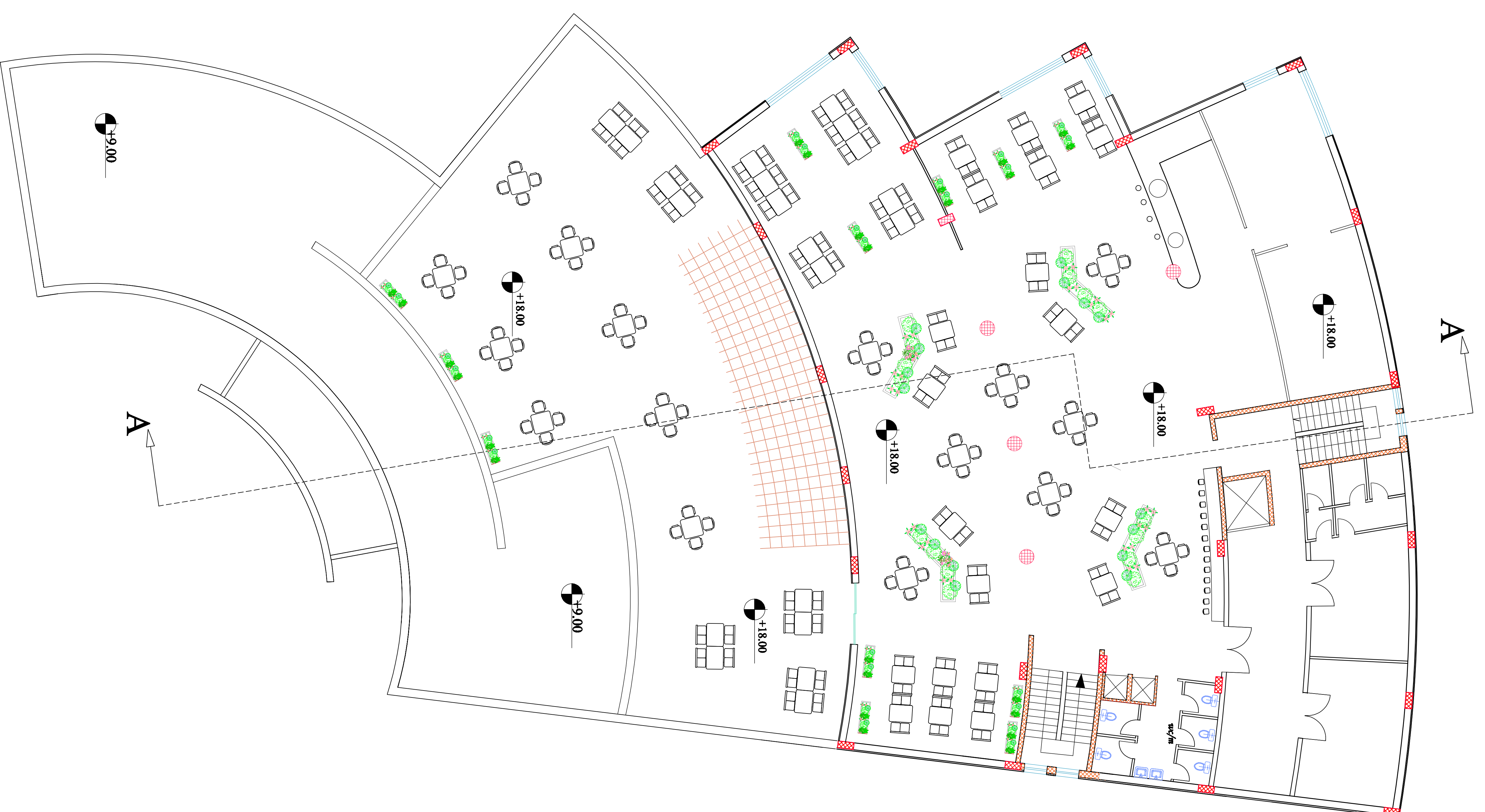
Drawing Title :
Third Floor Plan

Supervisor :
Dr. Mohammad Taha

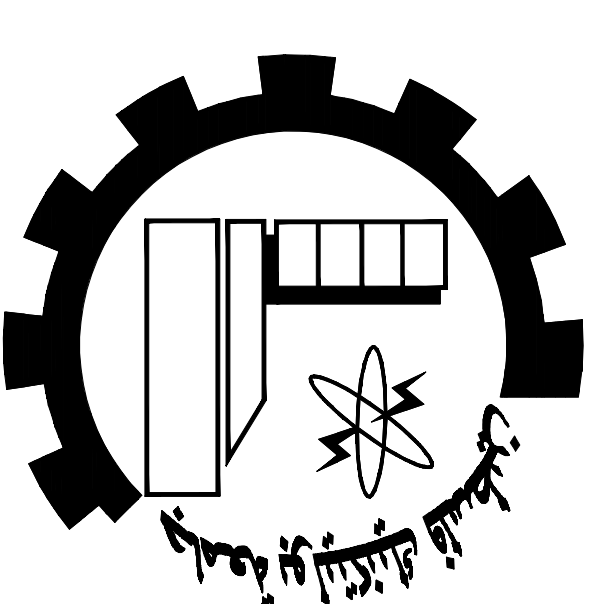
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1/100 **A05**

<i>Legend</i>	
<i>Children's clothes zone</i>	
<i>Shoes zone</i>	
<i>clothes women zone</i>	
<i>Perfumes and hairs</i>	
<i>Wedding clothes</i>	
<i>Accessories</i>	





GENERAL NOTES



Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Fourth Floor Plan

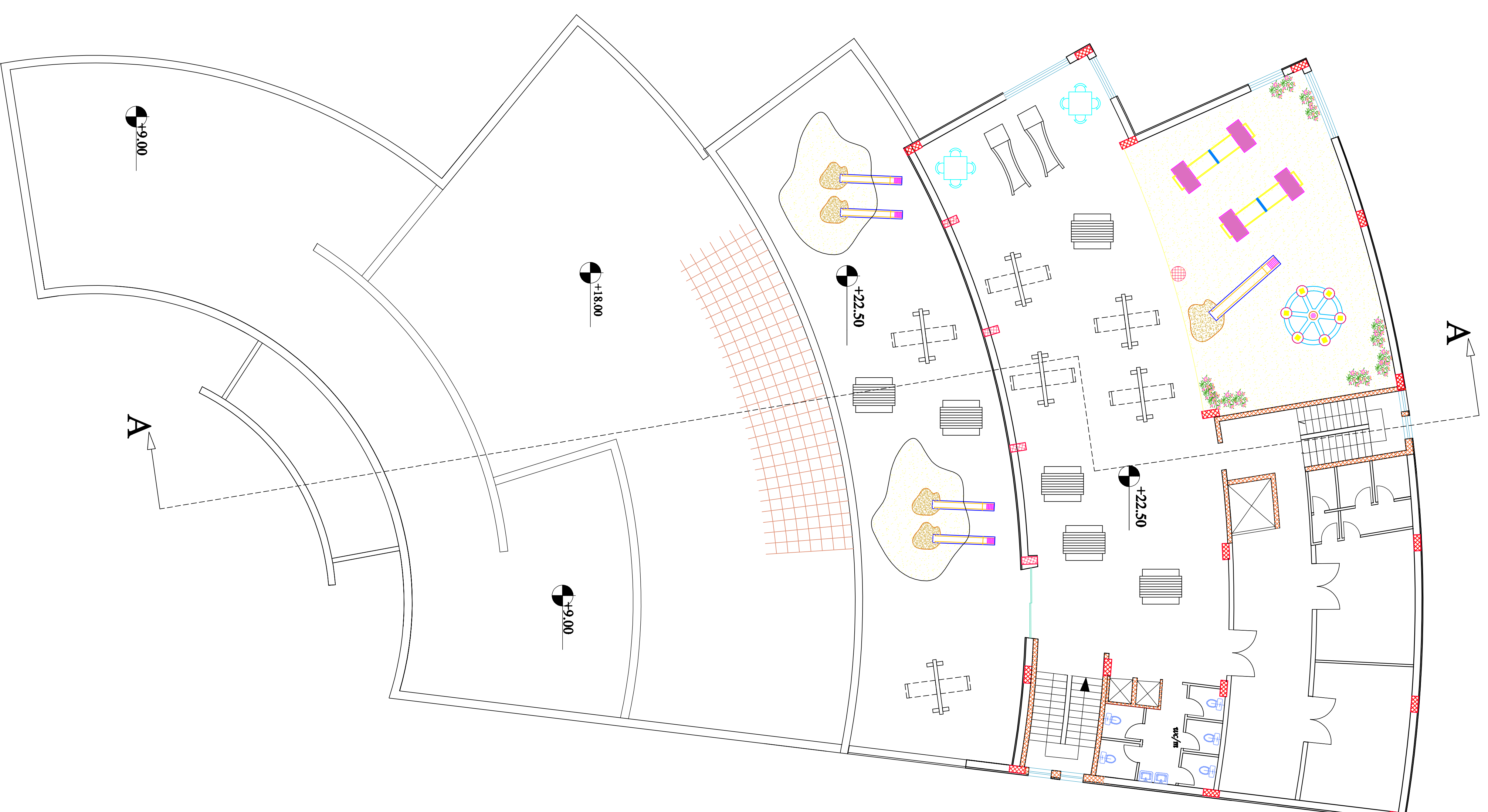
Supervisor :

Dr. Mohammad Taha

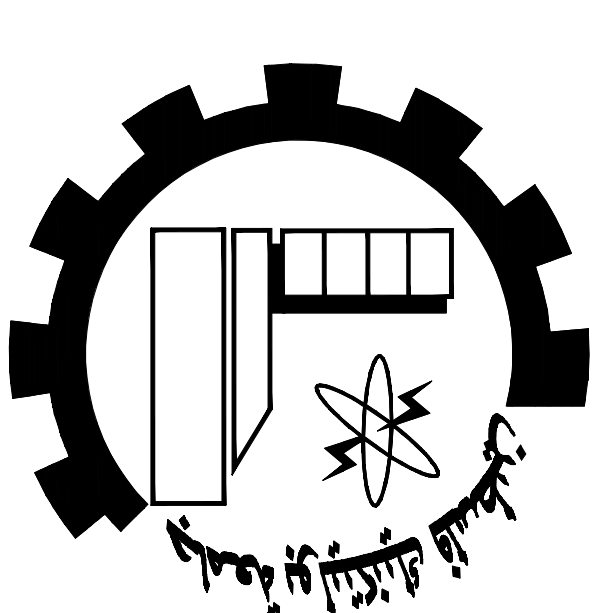
SCALE:

1/100

A06



GENERAL NOTES



Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

قيد في دور plan

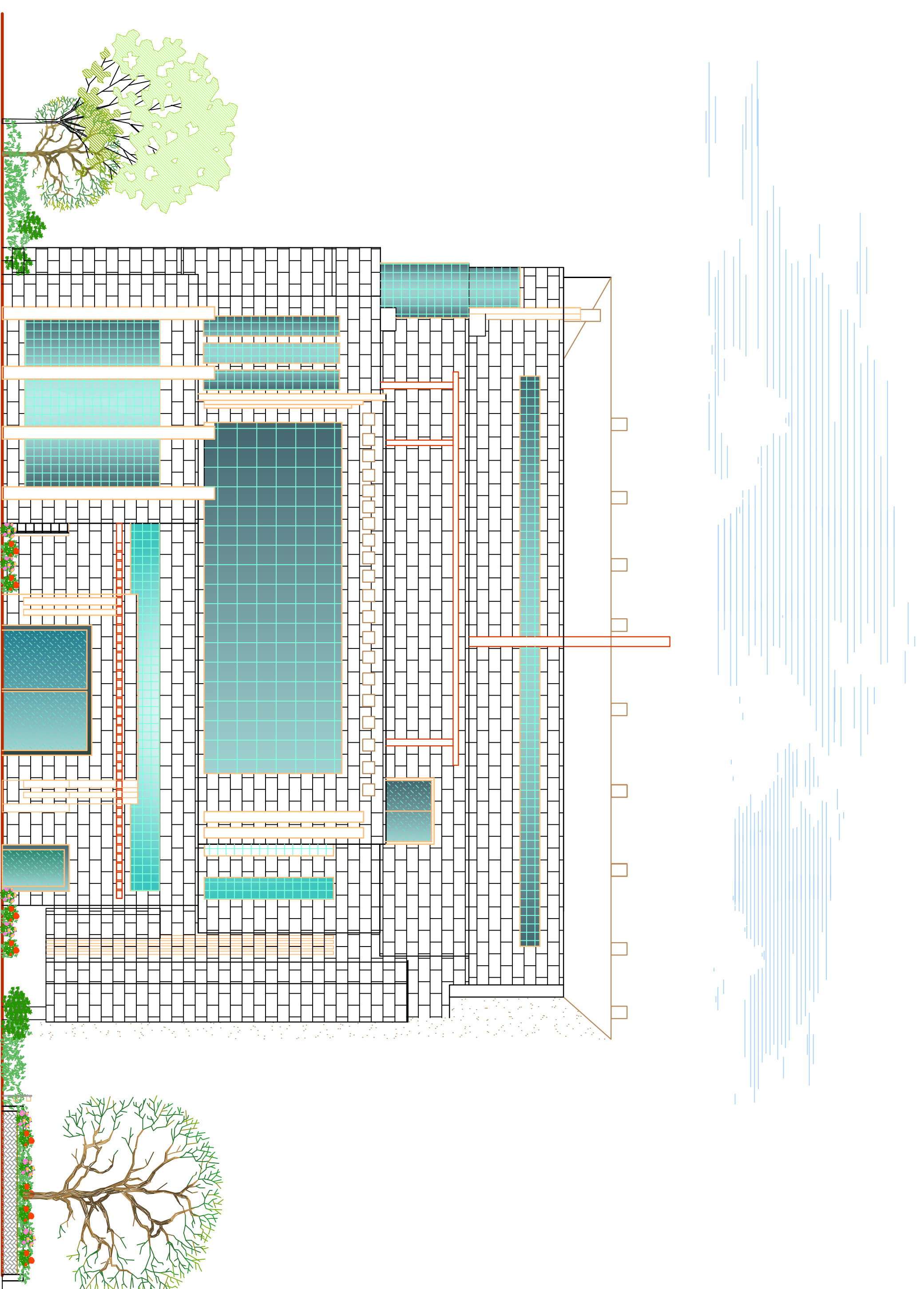
Supervisor :

Dr. Mohammad Taha

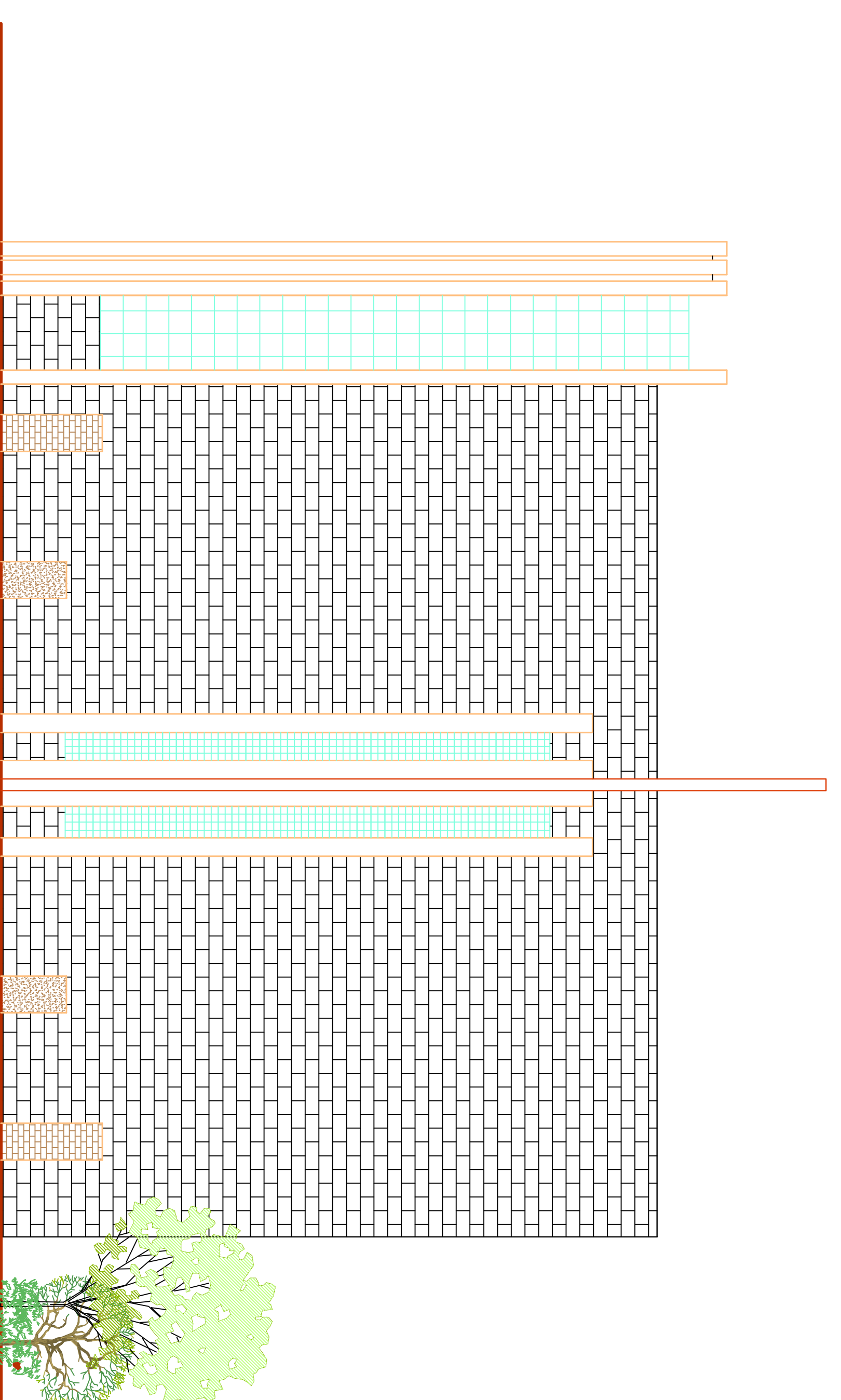
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1/100

A07

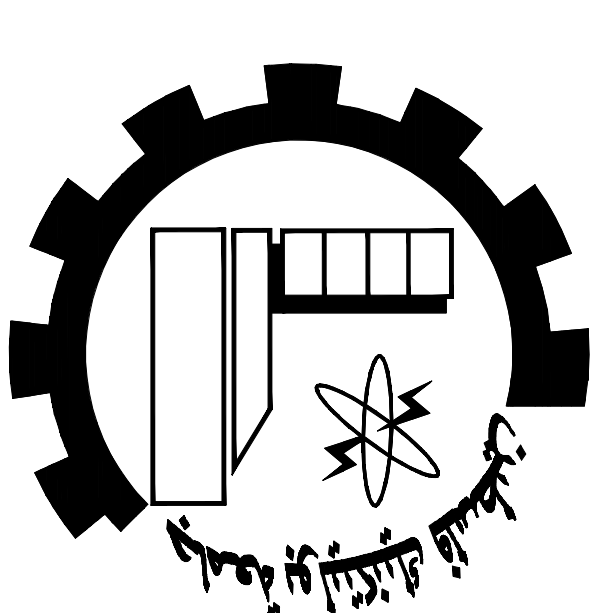


East Elevation
scale 1 \ 250



West Elevation
scale 1 \ 250

GENERAL NOTES



NOTES:

all dimensions are in millimeters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

East and West Elevations

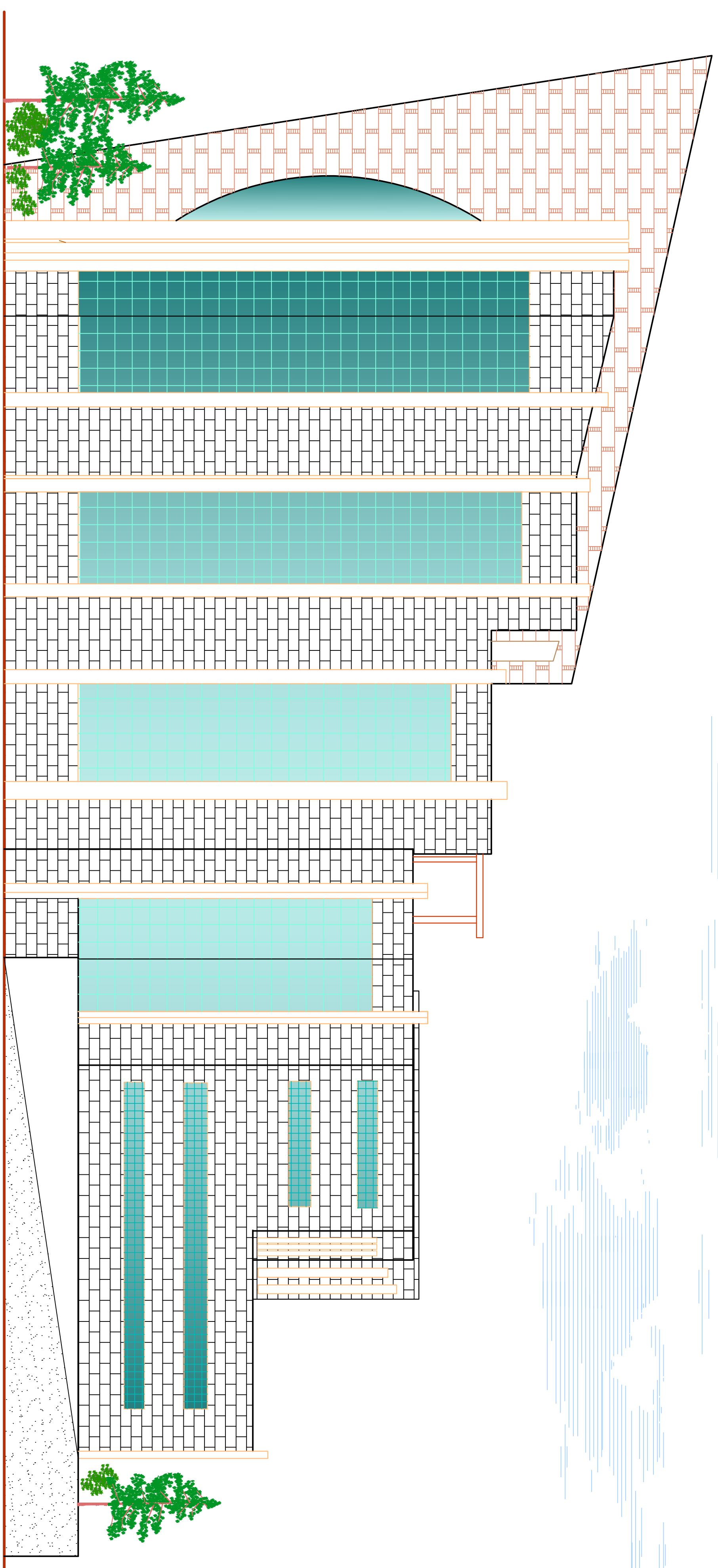
Supervisor :

Dr. Mohammad Taha

SCALE:

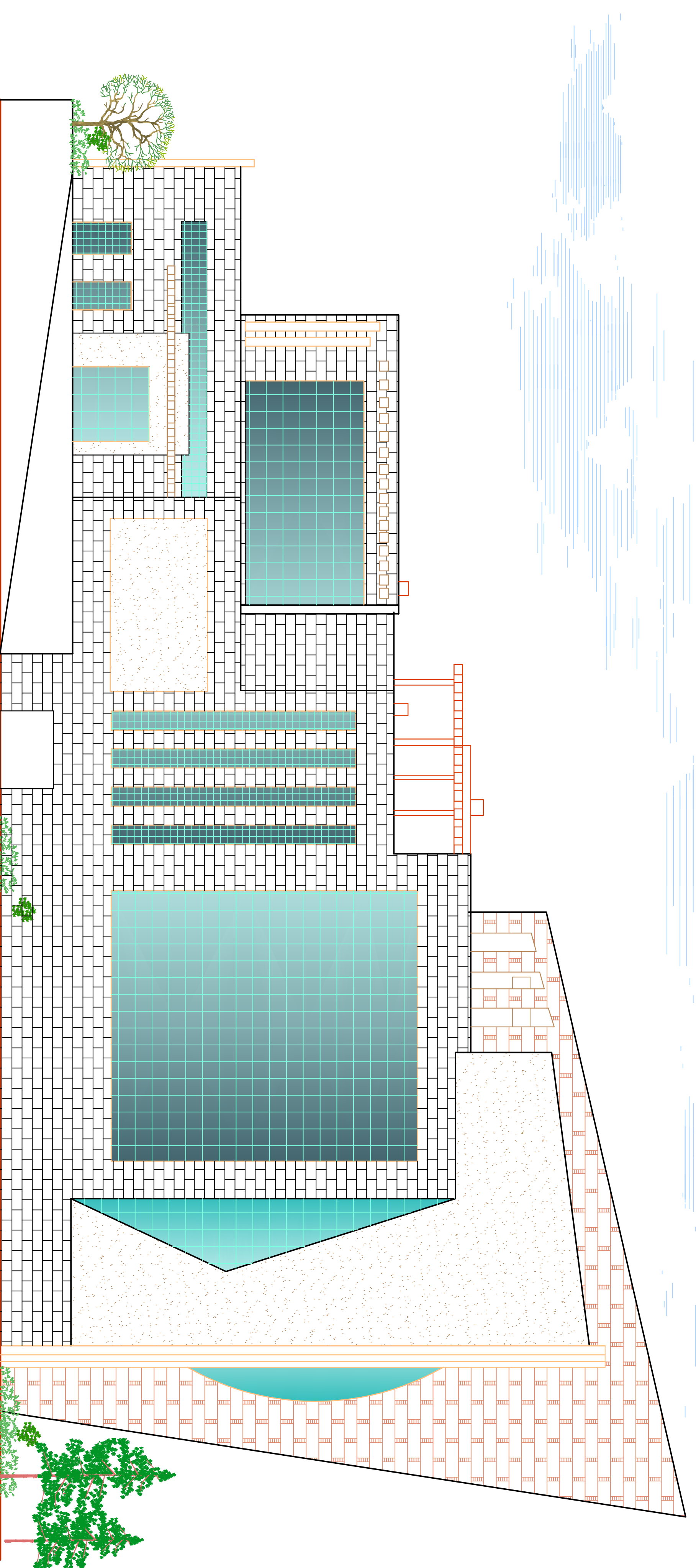
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A08



North Elevation

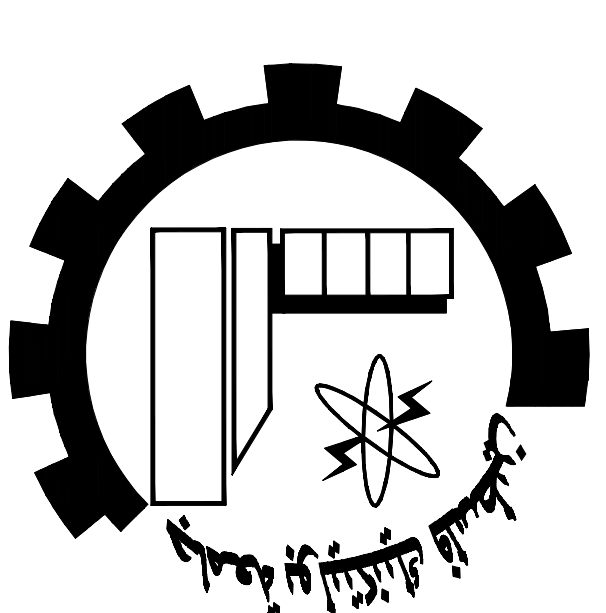
scale 1 \ 250



South Elevation

scale 1 \ 250

GENERAL NOTES



NOTES:

all dimensions are in millimeters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

North and South Elevations

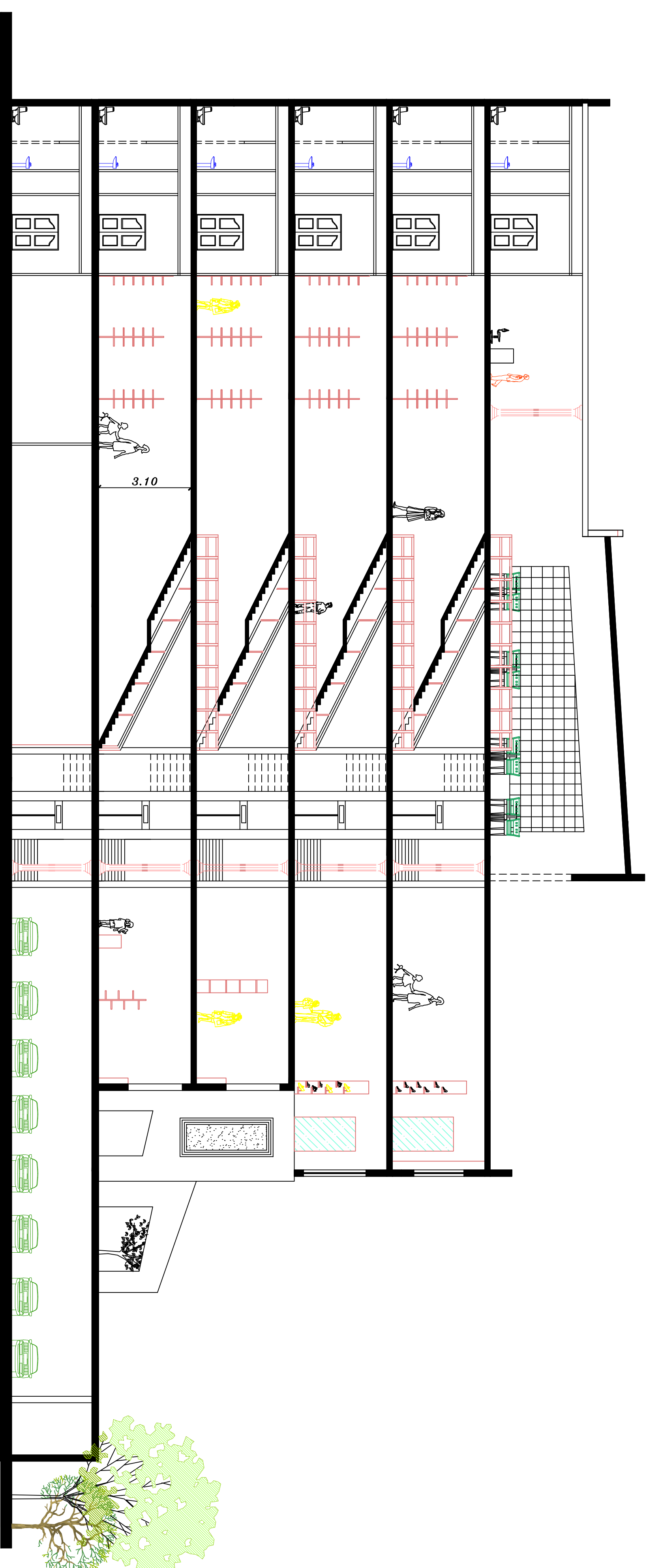
Supervisor :

Dr. Mohammad Taha

SCALE:

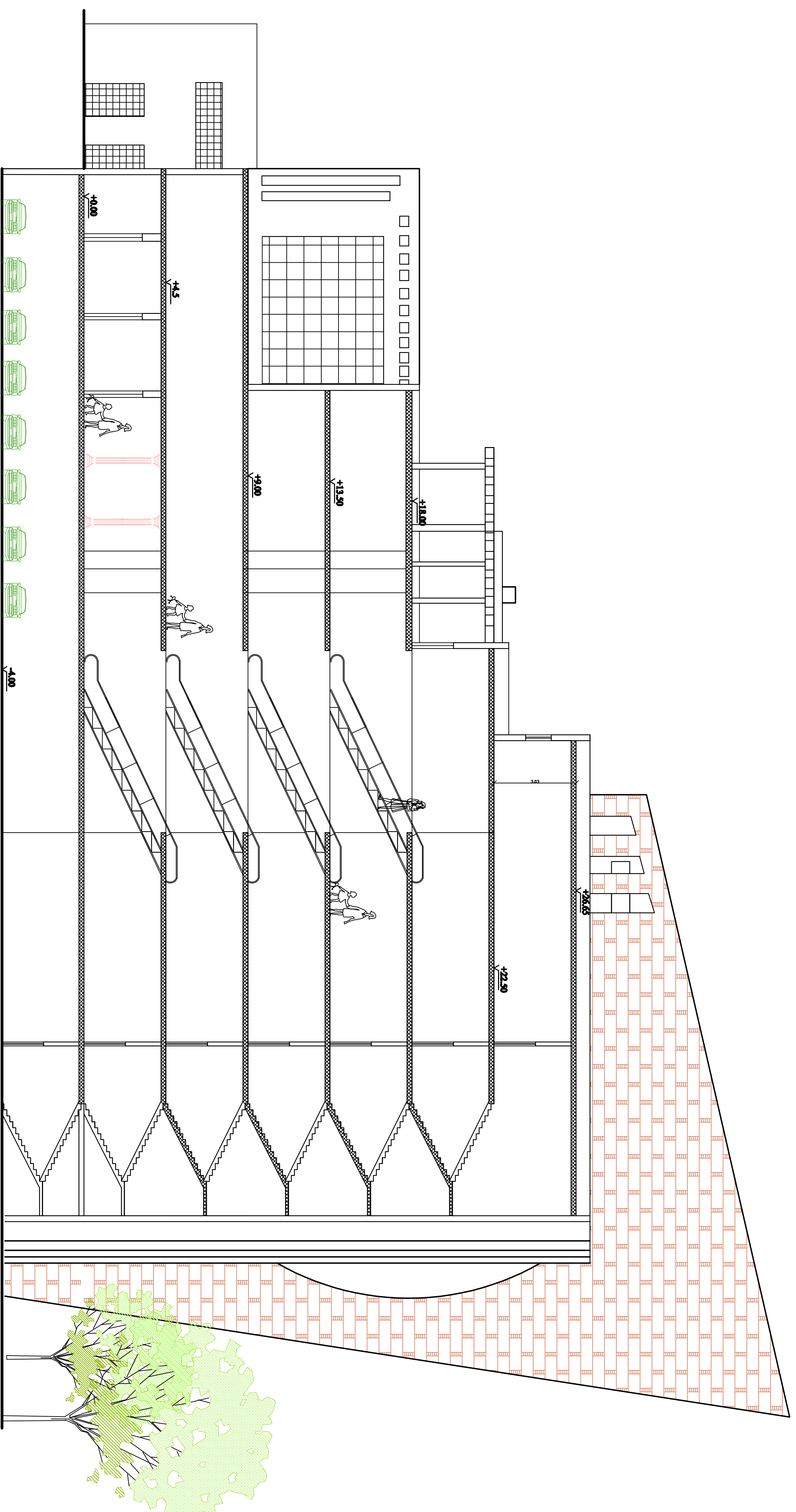
1 / 250

A09



Section A-A

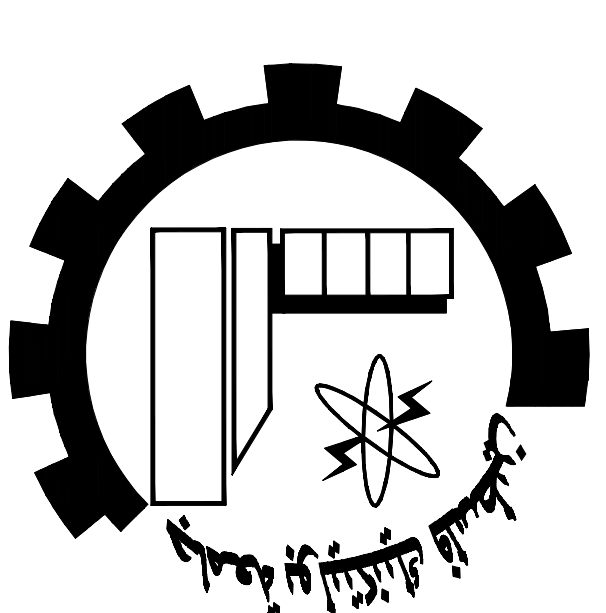
scale 1 \ 250



Section B-B

scale 1 \ 250

GENERAL NOTES



NOTES:

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unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abded Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Section A-A and B-B

Supervisor :

Dr. Mohammad Taha

SCALE:

1 / 250

A10

Structural Design Criteria & Specifications & Construction Requirements

GENERAL NOTES

1. CODE OF PRACTICE

Detailing and workmanship shall be according to ACI 318-14, and the technical specifications provided
Approved equivalent international codes shall be accepted
Design for concrete done according to ACI 318-14
Uniform Building Code (UBC) For the definition of lateral Seismic Loading.

2. DIMENSIONS

- a) Gravity Loads Estimation are in Accordance of Jordan Code.
- b) Unless Otherwise Indicated on Drawings Elevations are in Meters.
Distances and Dimensions in cm. 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 10mm & below.
- 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:
B350 - Grade 350 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:
B350 - 35*0.8= 28 MPa(Because it is Cube Specimen)
Minimum cement content per cubic meter shall be 350 Kg for B350

6. PLAIN CONCRETE

The following type of plain concrete shall be employed:
B200 - Grade 200 concrete of characteristic cube strength equal to 20 MPa, minimum cement content of 200 kilograms per cubic metre, and a maximum water cement ratio of 0.70 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 = 260 KN/m².

9. BACK FILL

All Back Fill Material shall conform to Specifications and shall be properly tested. No Back Filling is permitted around.

10. DESIGN LOADING

Basement Walls prior to pouring of Framing Slabs.
Design Live Loads are as follows:
Live Load= 4.0 KN/m²

GENERAL RULES

1. NOTATION

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

2. COVER

Clear Concrete cover to Reinforcement shall be :
75mm for Concrete Below Grade for Non-salty Soils
20mm for Ribs 40mm for Beams 40mm for Columns
20mm for Walls, Slabs and Joists.
Reinforcing Bars of Girder shall be anchored over the center line of Column.
And Reinforcing Bars of Sub-beam shall be anchored over the Center line of Girder.

3. Min. Bar Spacing

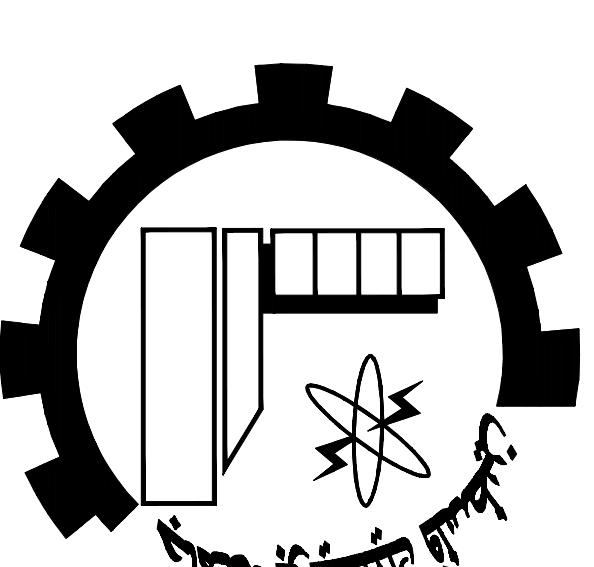
- Unless otherwise shown below, Sub-beam and Cantilever Beam shall be conforming
- Bar spacing "a" shall be not less than the greatest in the following three cases:
1) 25 mm
2) 1.5 d
3) 1.25 times the max size of coarse aggregate.

Standard Hook Details and Bar Bends

End position	Hook details	Secondary Steel	Main Steel	Application	
180°		D	4d	5d	16mm dia. bar and larger
135°		D	4d	-	13mm dia. bar and smaller
90°		D	4d	-	T- and L-shape stirrups
90°		D	4d	-	90° 135° Spacer bar

Intermediate position	Hook details	Secondary Steel	Main Steel	Application	
		D and over	3d	4d	Hook end stirrup
		D and over	4d	4d	16mm dia. bar and smaller
		D and over	5d	6d	Match bar from column and girder
		D	8d	8d	30mm dia bar end over in column and girder

GENERAL NOTES



NOTES:

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Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalah

Drawing Title :

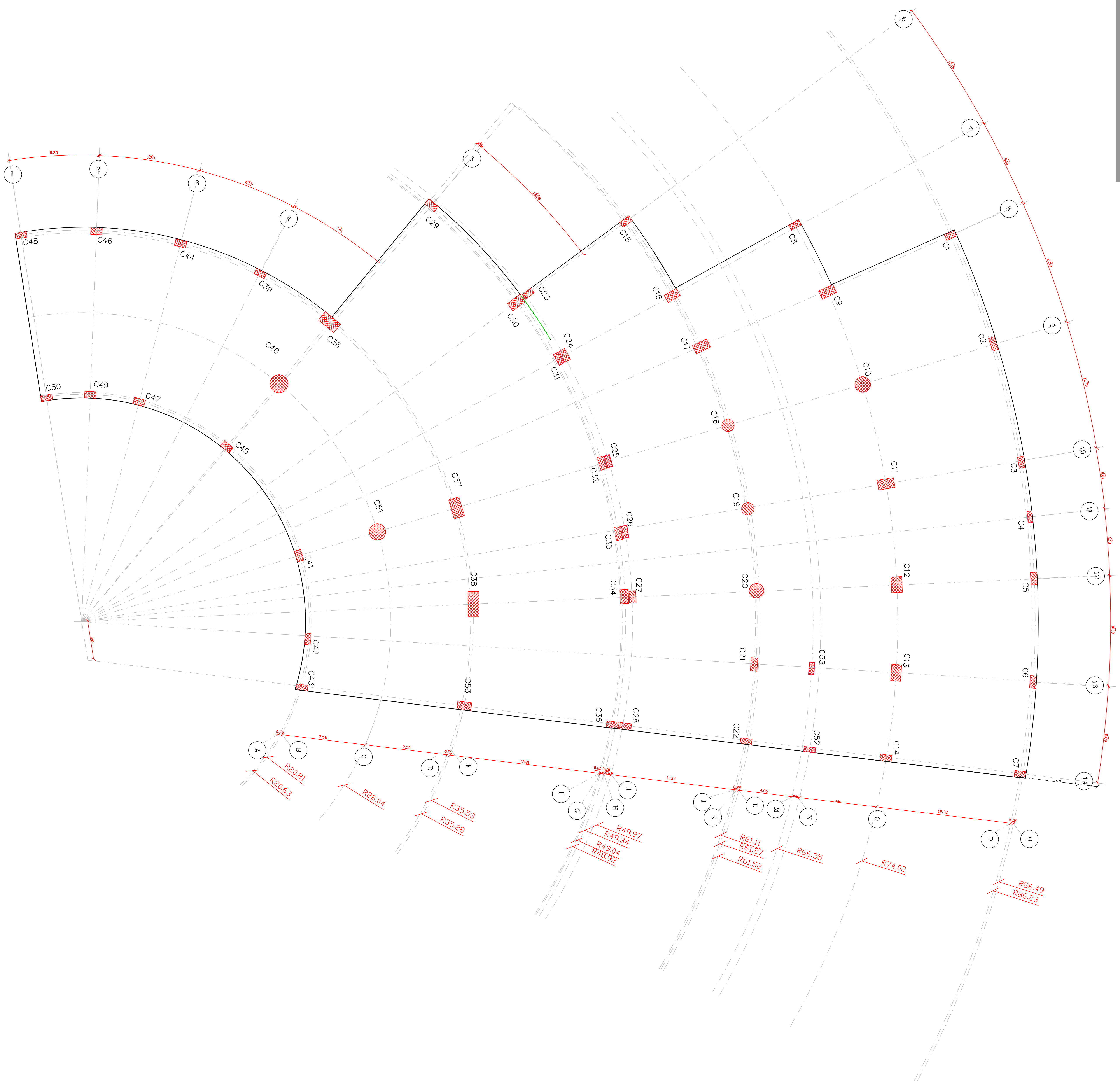
General Notes

Supervisor :

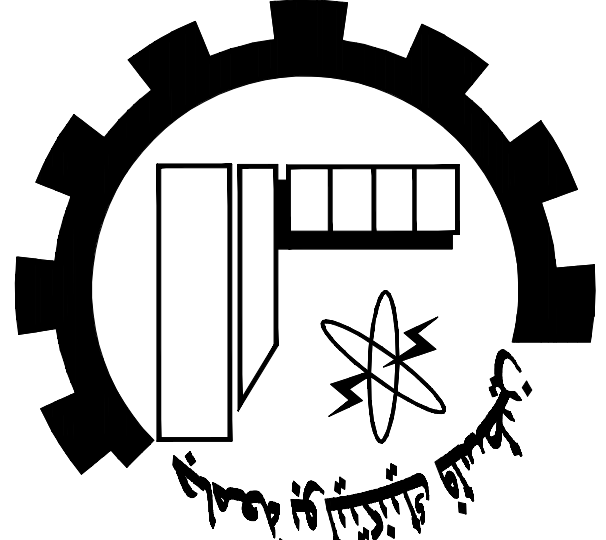
Dr. Mohammad Taha

SCALE:

500



GENERAL NOTES

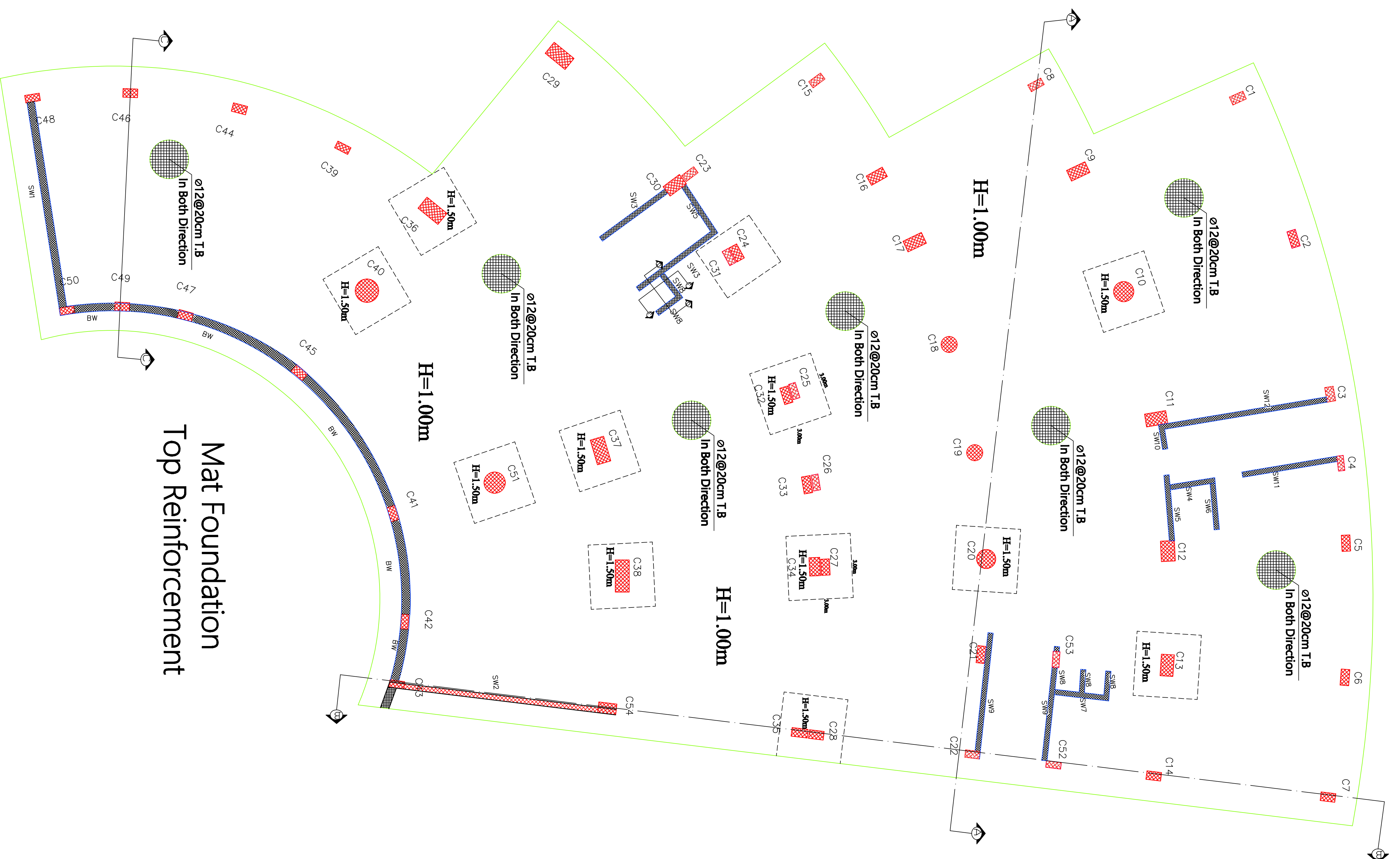
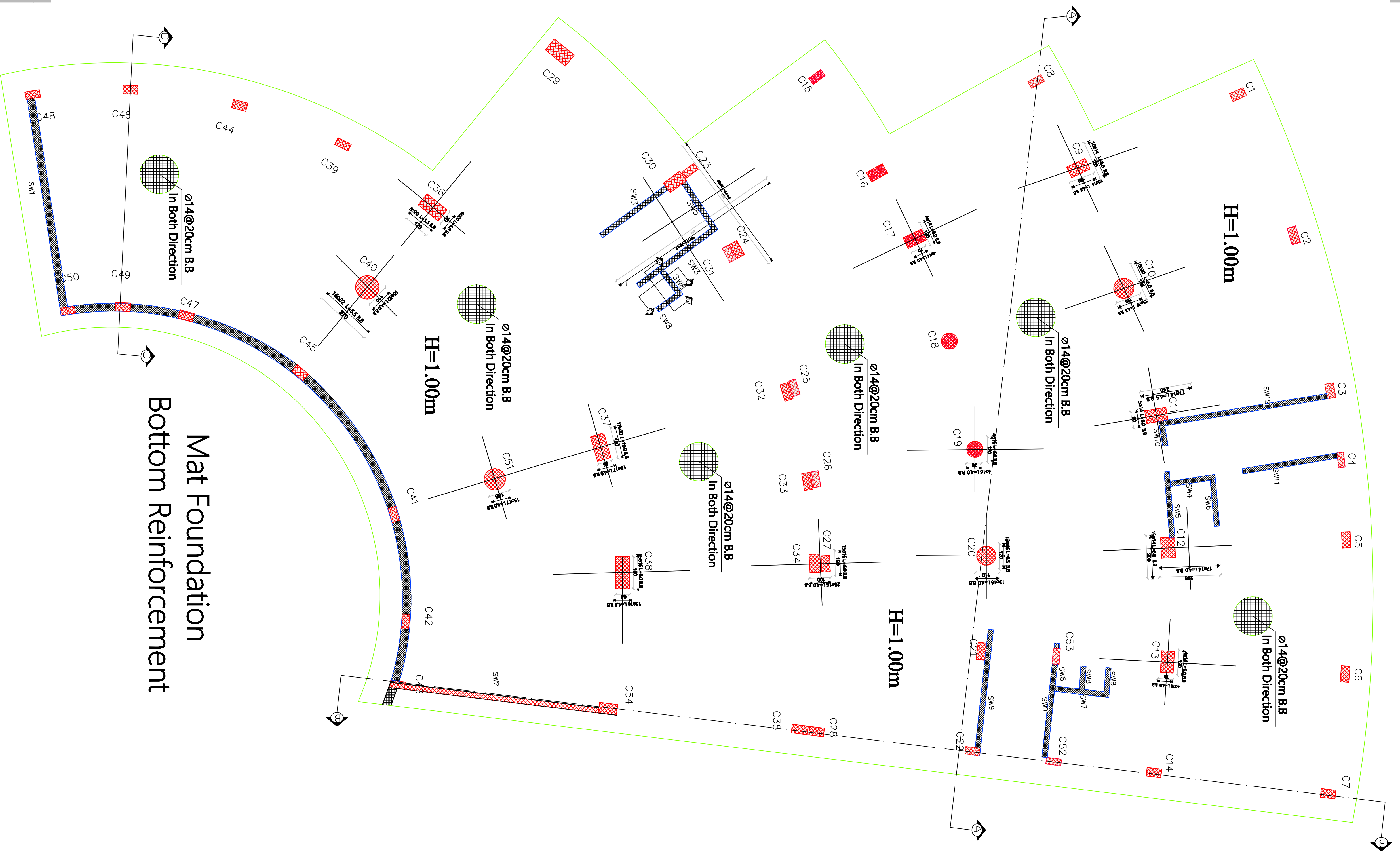


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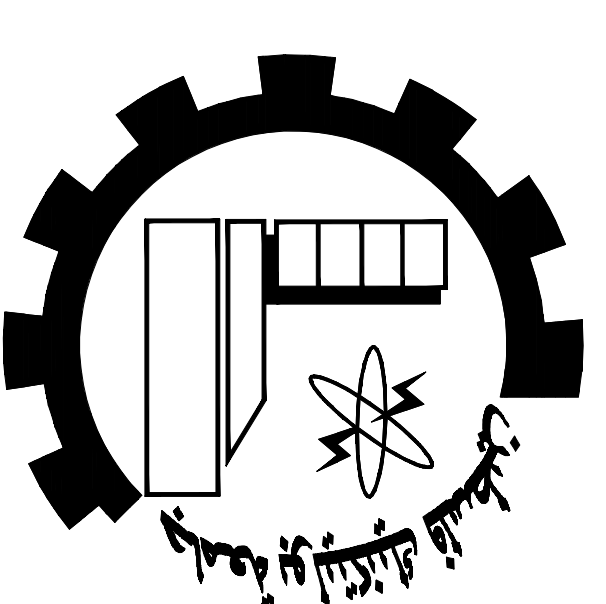
All Dimensions are in Meters.
 Unless otherwise shown.
 All Spot Levels are in Meters.

Palestine Polytechnic University
 Civil, Arch. Eng. Department
Building Engineering
Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatrah Jawabreh
 Mohammad Abu Zalahh
Drawing Title :
 Columns Axes
Supervisor :
 Dr. Mohammad Taha

SCALE:
 1/100
SO1



GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University

Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abded Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Mat Foundation Details

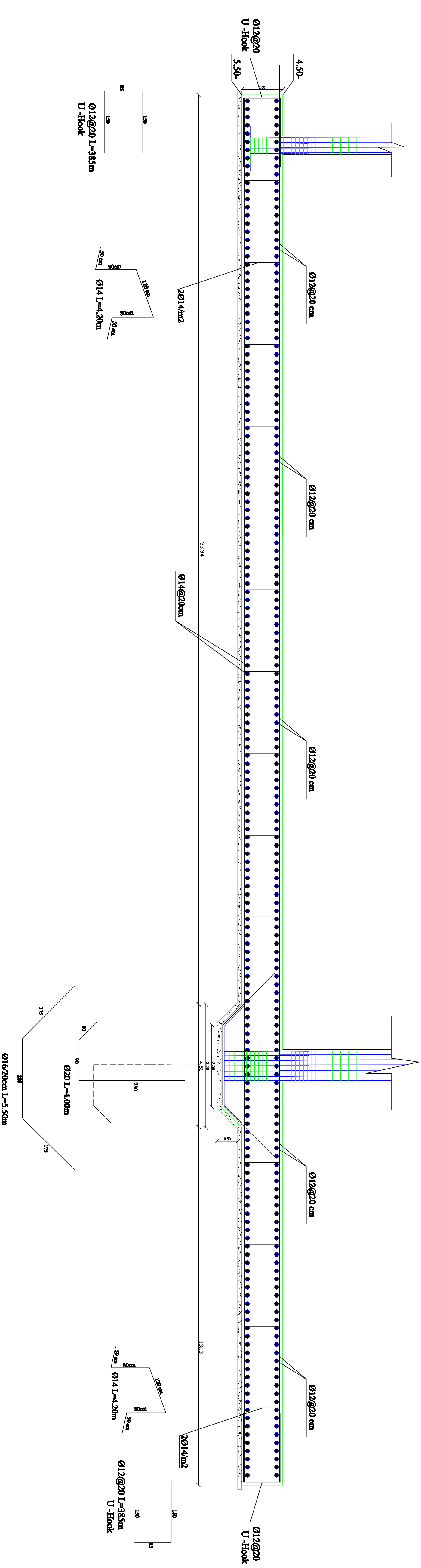
Supervisor :

Dr. Mohammad Taha

SCALE:

1/100

S02



Ø12@200cm L=10.00m
T.B

Ø12@200cm L=9.00m
T.B

Ø12@200cm L=12.00m
T.B

Ø12@200cm L=12.00m
T.B

Ø12@200cm L=11.00m
T.B

Ø12@200cm L=6.50m
T.B

Ø14@200cm L=9.50m
B.B

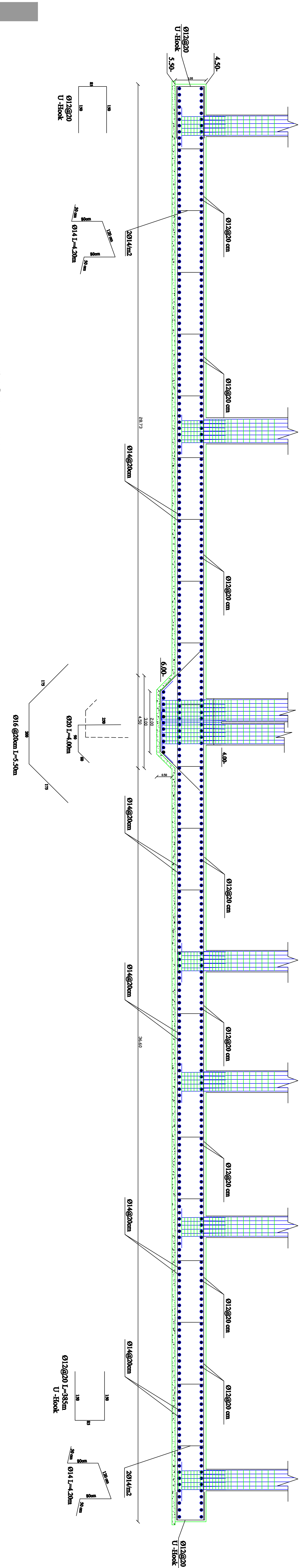
Ø14@200cm L=6.00m
B.B

Ø14@200cm L=12.00m
B.B

Ø14@200cm L=11.00m
B.B

Ø14@200cm L=6.50m
B.B

Section A - A
Scale 1:50



Ø12@200cm L=7.00m
T.B

Ø12@200cm L=10.00m
T.B

Ø12@200cm L=11.00m
T.B

Ø12@200cm L=11.00m
T.B

Ø12@200cm L=12.00m
T.B

Ø12@200cm L=12.00m
T.B

Ø14@200cm L=12.00m
B.B

Ø14@200cm L=11.50m
B.B

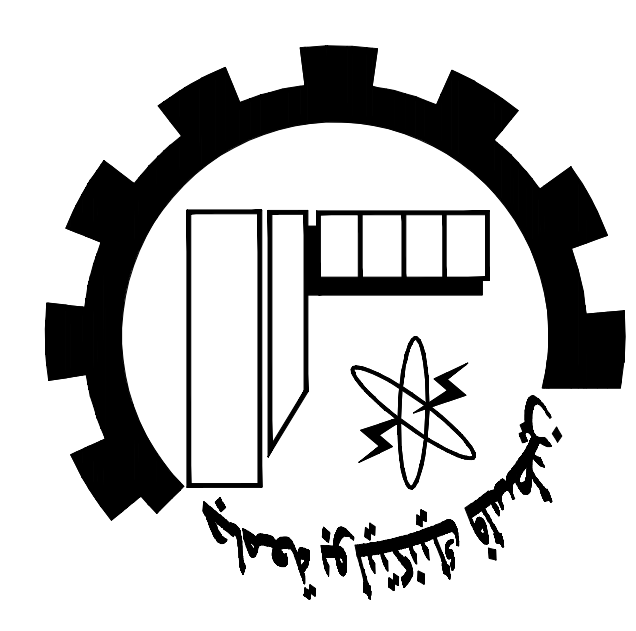
Ø14@200cm L=10.50m
B.B

Ø14@200cm L=10.00m
B.B

Ø14@200cm L=10.00m
B.B

Section B - B
Scale 1:50

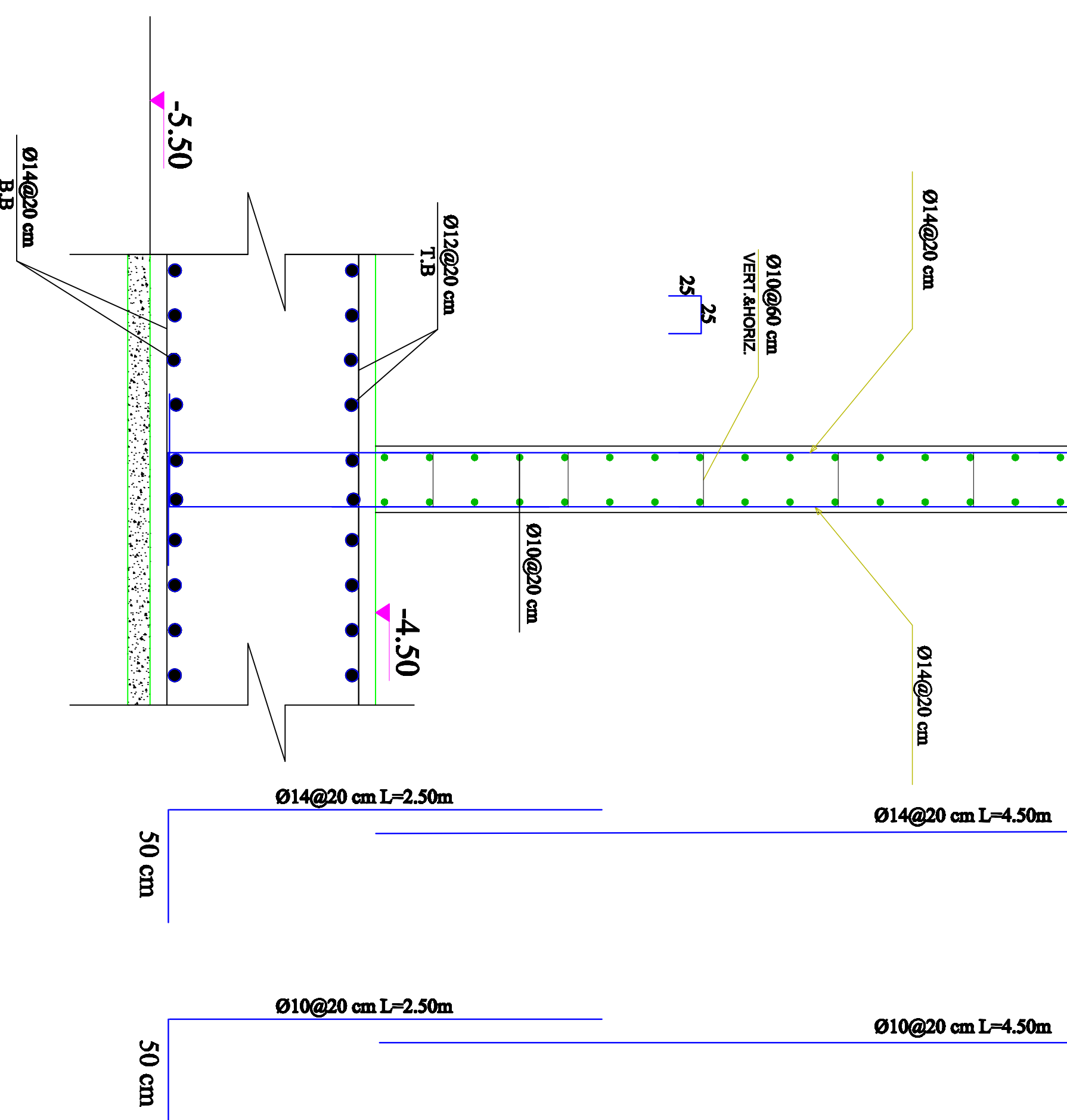
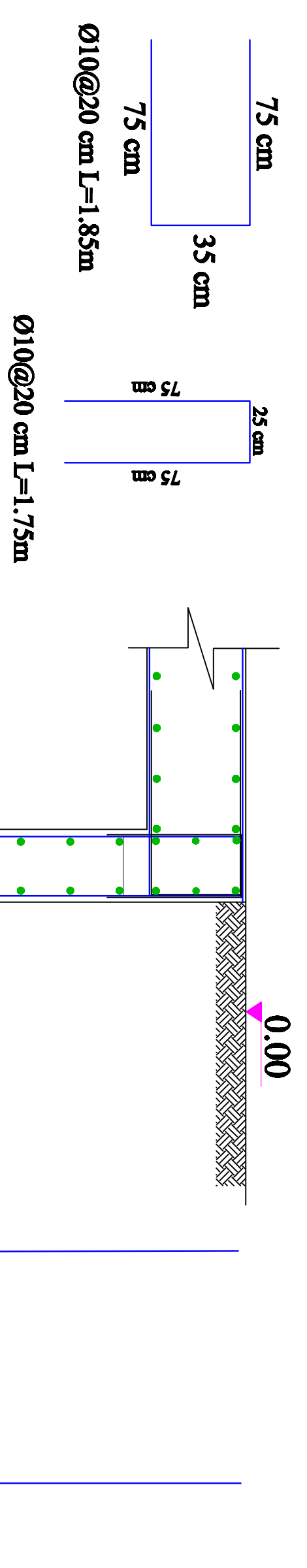
GENERAL NOTES



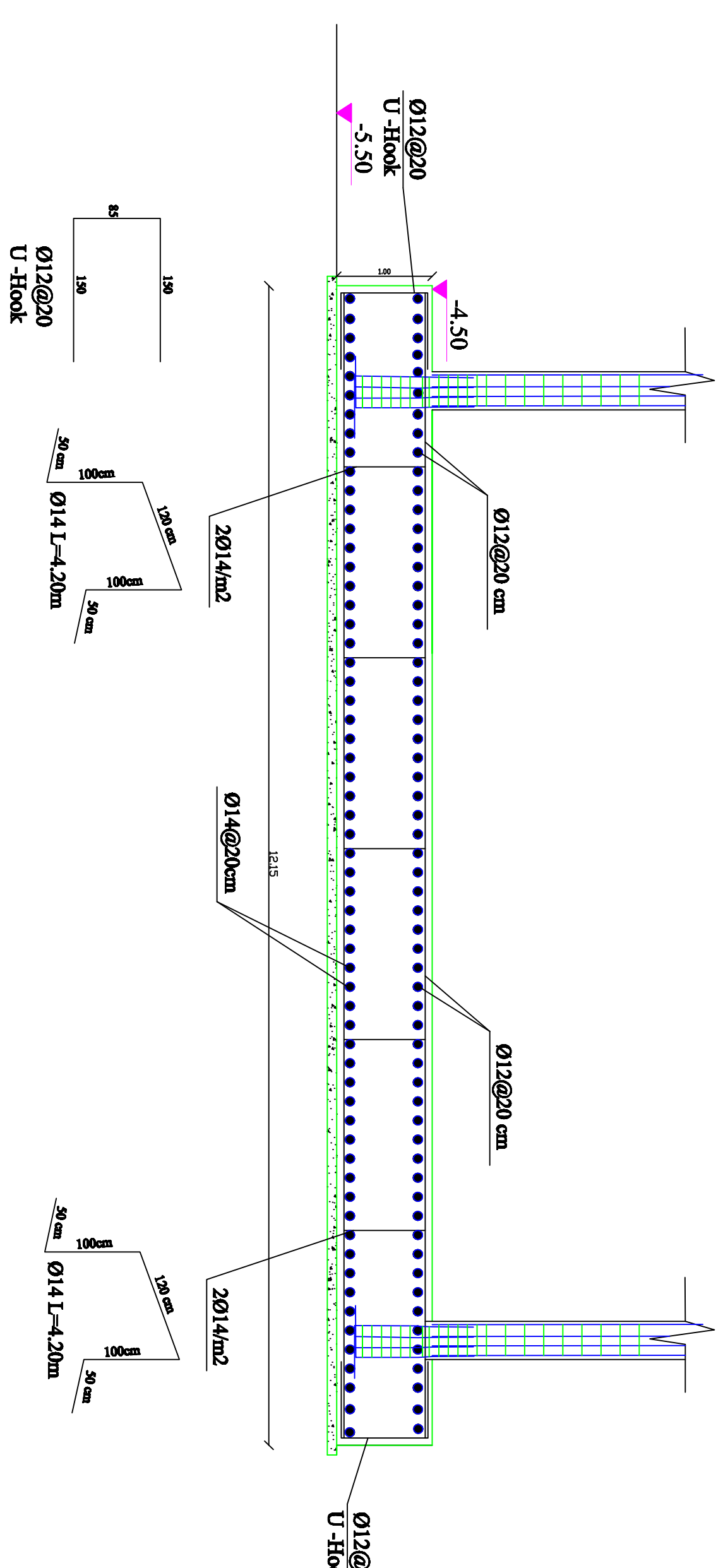
NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

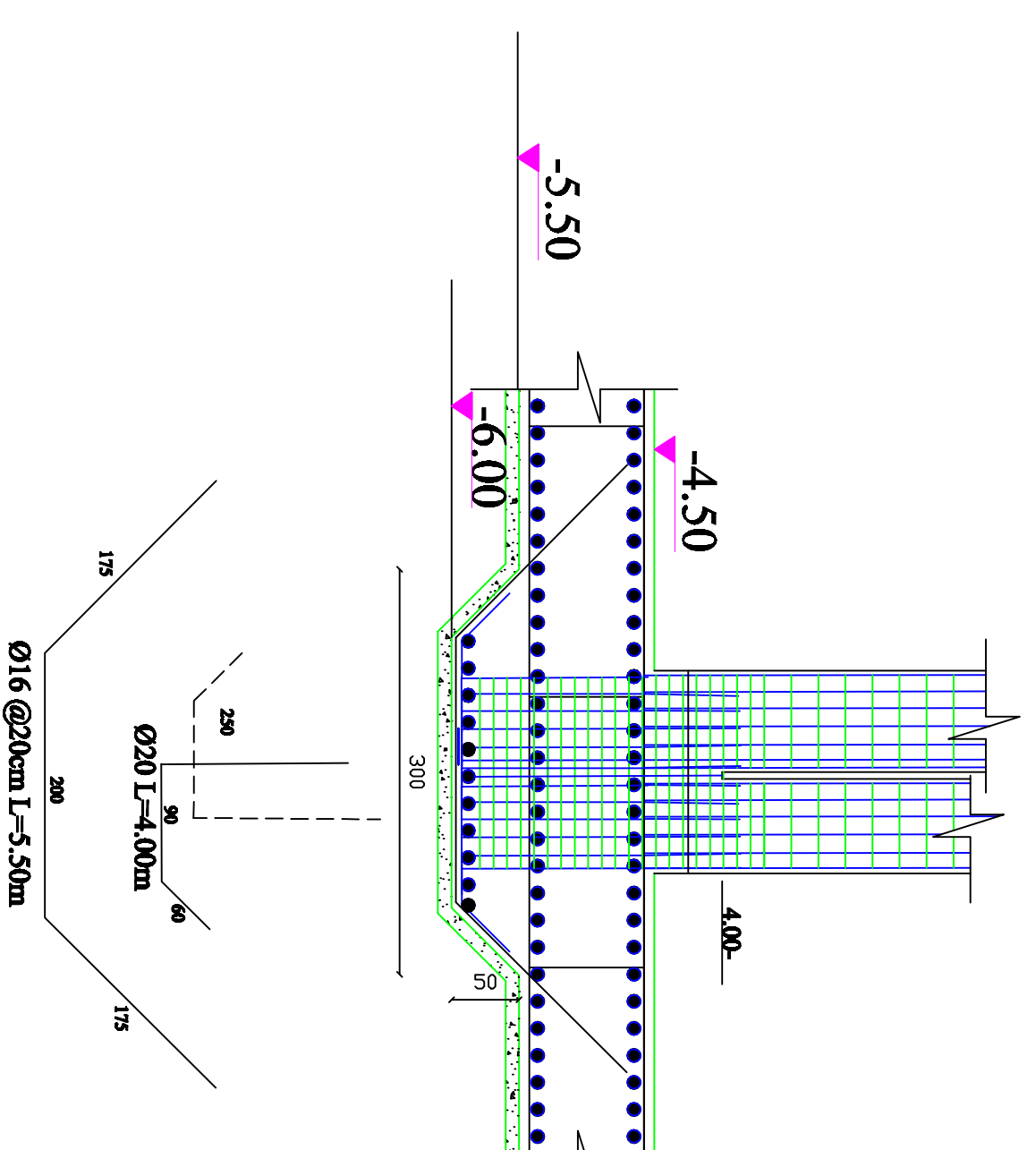
Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering
Designed By:
Israa Rabai
Omar Khamayseh
Issam Hassouna
Abded Al-fatah Jawabreh
Mohammad Abu Zalath
Drawing Title :
Mat Foundation Details
Supervisor :
Dr. Mohammad Taha



Typical Section in Basement Wall
Scale 1:20

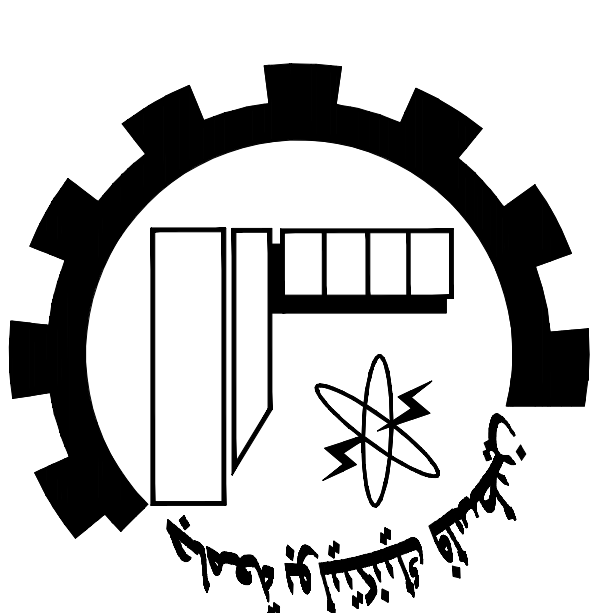


Section C - C
Scale 1:50



Section in Drop Panel
Scale 1:50

GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

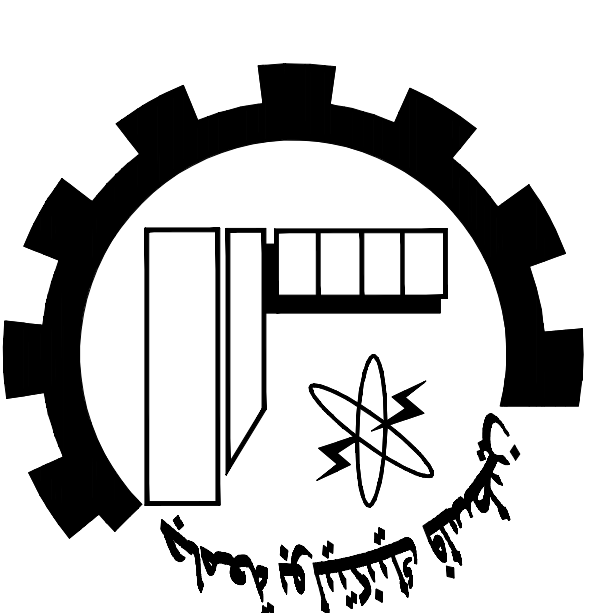
Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering
Designed By:
Israa Rabai
Omar Khamayseh
Issam Hassouna
Abded Al-fatrah Jawabreh
Mohammad Abu Zalath
Drawing Title :
Mat Foundation Details
Supervisor :
Dr. Mohammad Taha

SCALE:

1/50

S04

GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Elevator Foundation Details

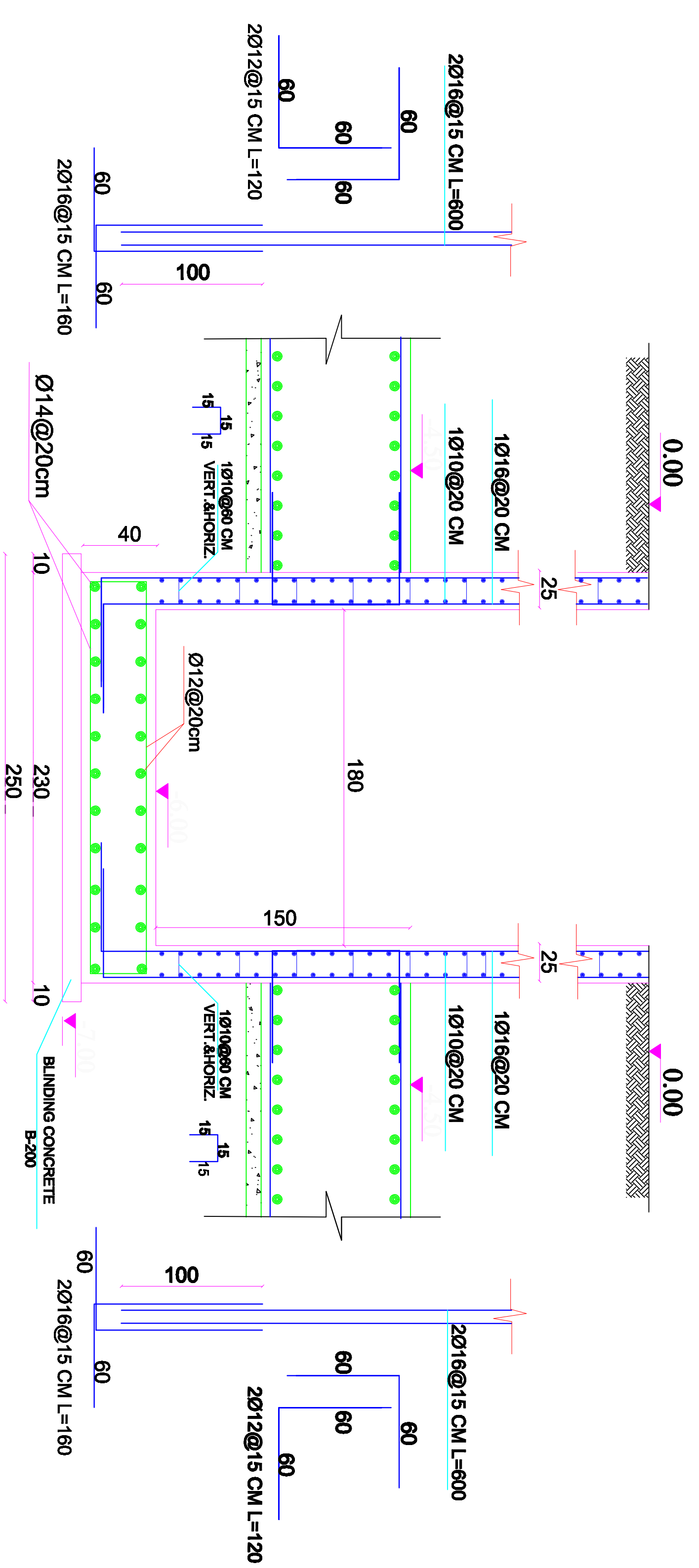
Supervisor :

Dr. Mohammad Taha

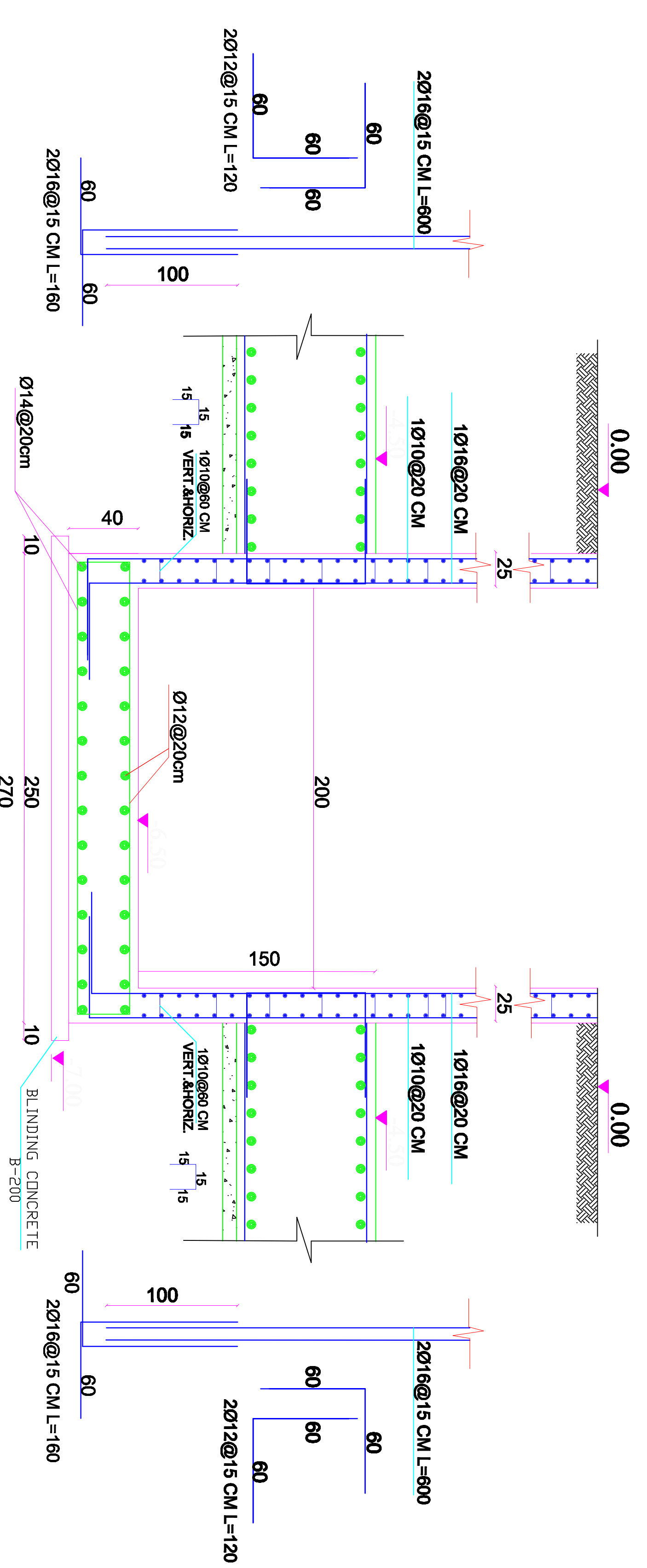
SCALE:

1/20

SOS



Ø12@20cm L=280
Ø14@20cm L=280
Elevator Walls Details
Section D-D
Scale 1:20

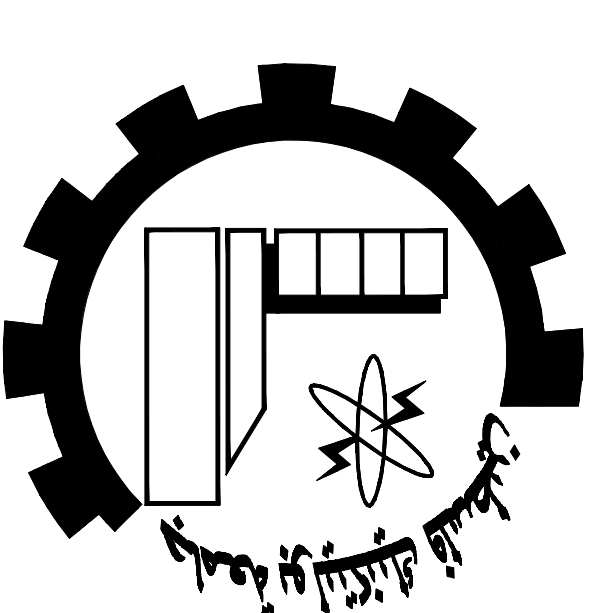


Ø12@20cm L=300
Ø14@20cm L=300
Elevator Walls Details
Section E-E
Scale 1:20

FLOOR

<h2>Ground Floor</h2> <h3>First Floor</h3> <h3>Second Floor</h3>	<p>Detailing Of Columns No.(1)</p> <p>col(4,26,52,53)</p>	<p>Detailing Of Columns No.(2)</p> <p>col(8,15,22,23,25,39,42,43,48,50)</p>	<p>Detailing Of Columns No.(3)</p> <p>col(1,3,7,14,28,33,41,44,45,46,47,49)</p>
<h2>Third Floor</h2>	<p>Detailing Of Columns No.(1)</p> <p>col(4,26,30,31,52,53)</p>	<p>Detailing Of Columns No.(2)</p> <p>col(8,15,22,23,25,29,32,33,35,40,51,53)</p>	<p>Detailing Of Columns No.(3)</p> <p>col(1,3,7,14,28,34,36,38)</p>
<h2>Fourth Floor</h2>	<p>Detailing Of Columns No.(1)</p> <p>col(1,4,7,8,14,15,22,23,25,26,28,30,31,52,53)</p>	<p>Detailing Of Columns No.(2)</p> <p>col(3,5,6,21,24,27,29,32,33,33,40,51,53)</p>	<p>Detailing Of Columns No.(3)</p> <p>col(2,9,16,17,18,19,34,36,38)</p>
<h2>Fifth Floor</h2> <h2>Sixth Floor</h2>	<p>Detailing Of Columns No.(1)</p> <p>col(1,4,7,8,14,15,22,23,25,26,28,52,53) C6-18, C6-19, C6-20</p>	<p>Detailing Of Columns No.(2)</p> <p>col(3,5,6,21,24,27)</p>	<p>Detailing Of Columns No.(3)</p> <p>col(2,9,16,17)</p>

GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:
Israa Rabai
Omar Khamayseh
Issam Hassouna
Abed Al-fatrah Jawabreh
Mohammad Abu Zalath
Drawing Title :

Columns Details
Supervisor :
Dr. Mohammad Taha

SCALE:

1/25

S06

FLOOR

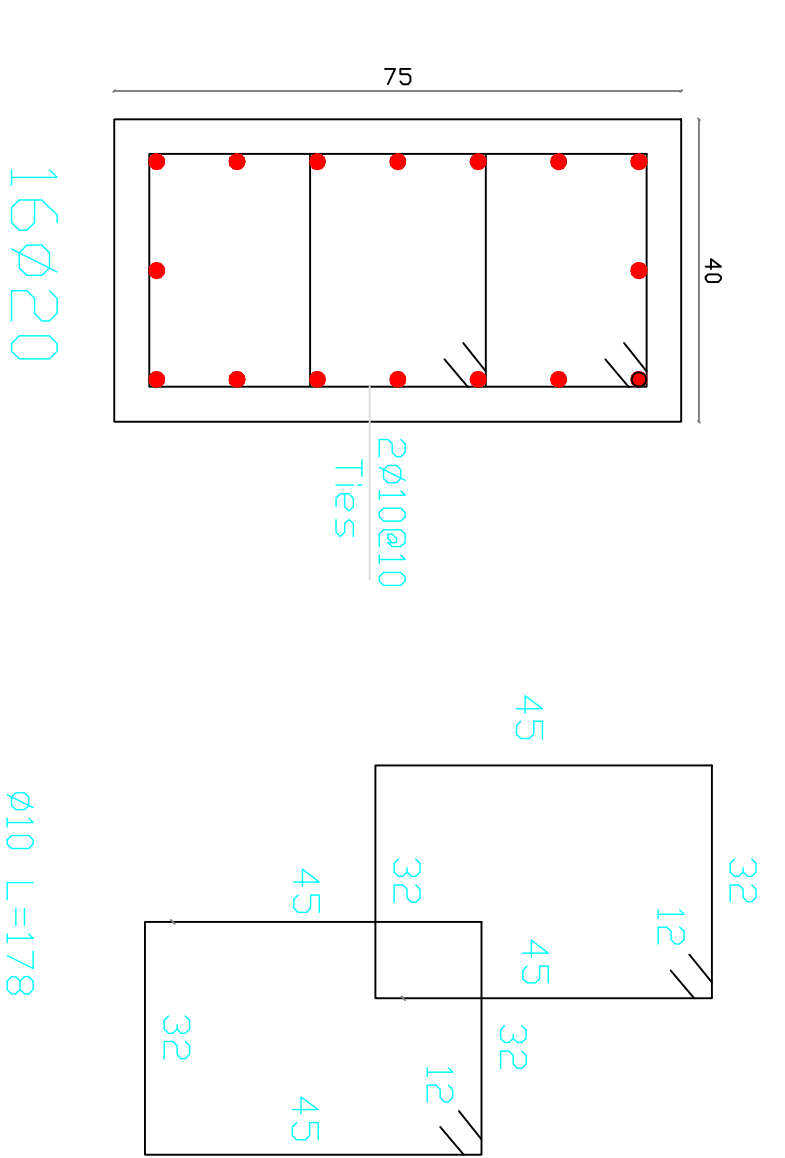
Ground Floor

First Floor

Second Floor

Detailing Of Columns No.(4)

col(5,6,24,27,29,35)

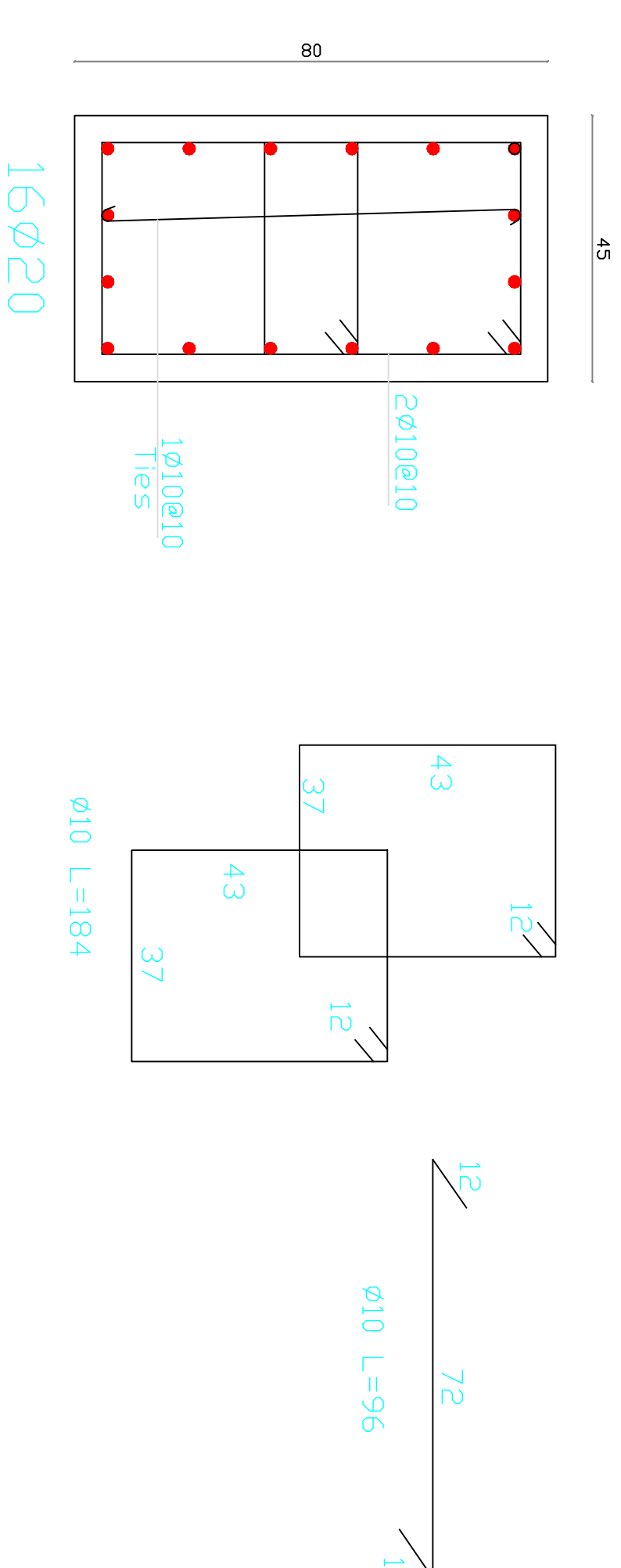


16 ϕ 20

ϕ 10 L=178

Detailing Of Columns No.(5)

col(2,21,31,32)



16 ϕ 20

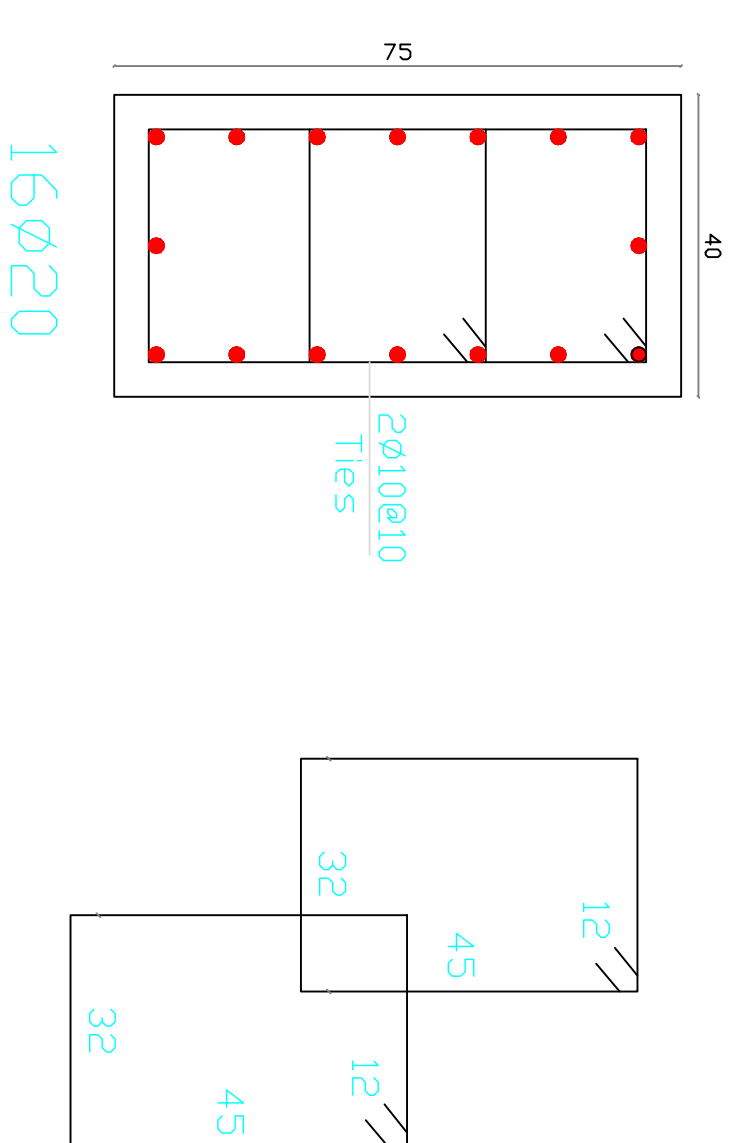
ϕ 10 L=184



ϕ 10 L=96

Detailing Of Columns No.(4)

col(5,6,24,27,37)

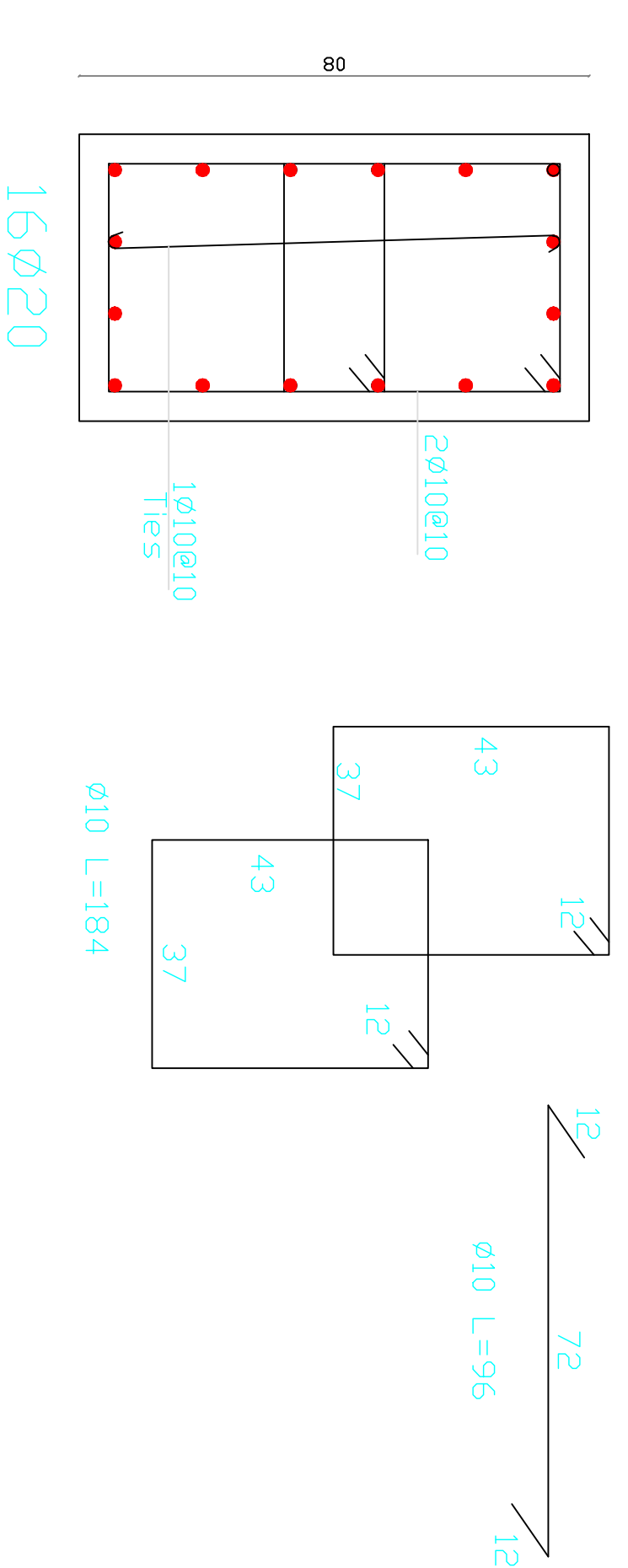


16 ϕ 20

ϕ 10 L=178

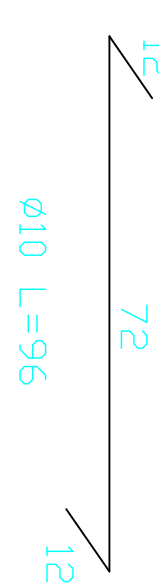
Detailing Of Columns No.(5)

col(2,21)



16 ϕ 20

ϕ 10 L=184



ϕ 10 L=96

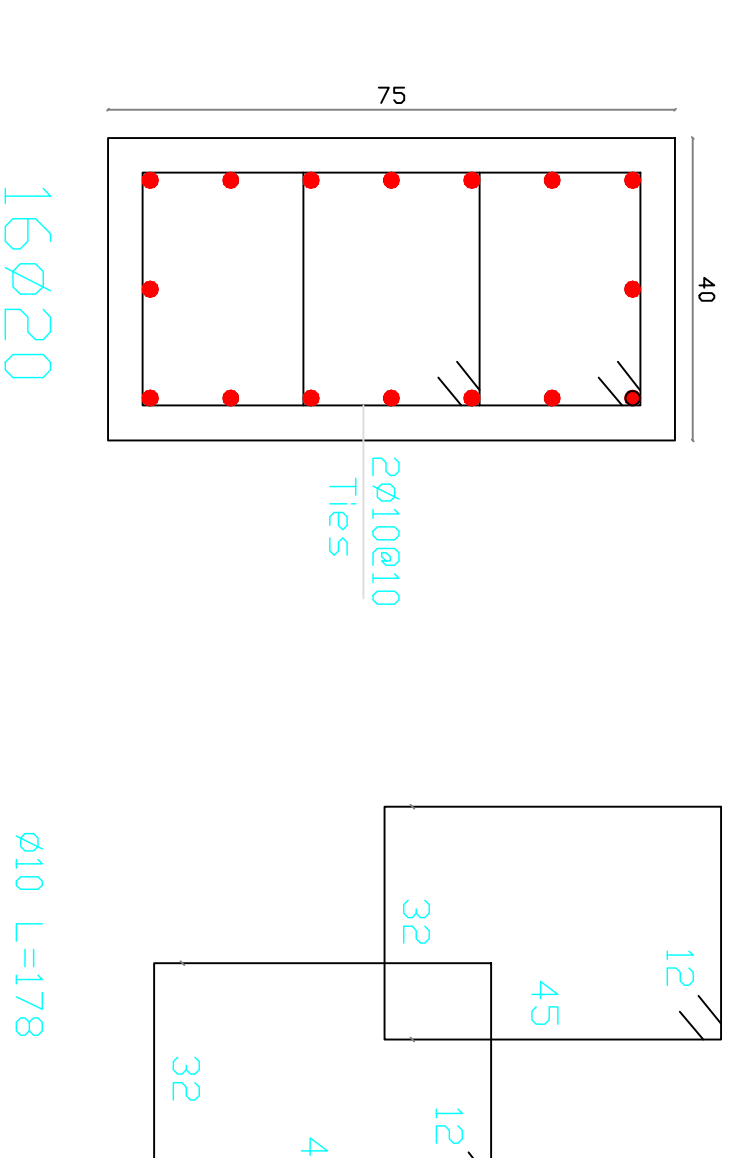
Fourth Floor

Fifth Floor

Sixth Floor

Detailing Of Columns No.(4)

col(11,13,37)

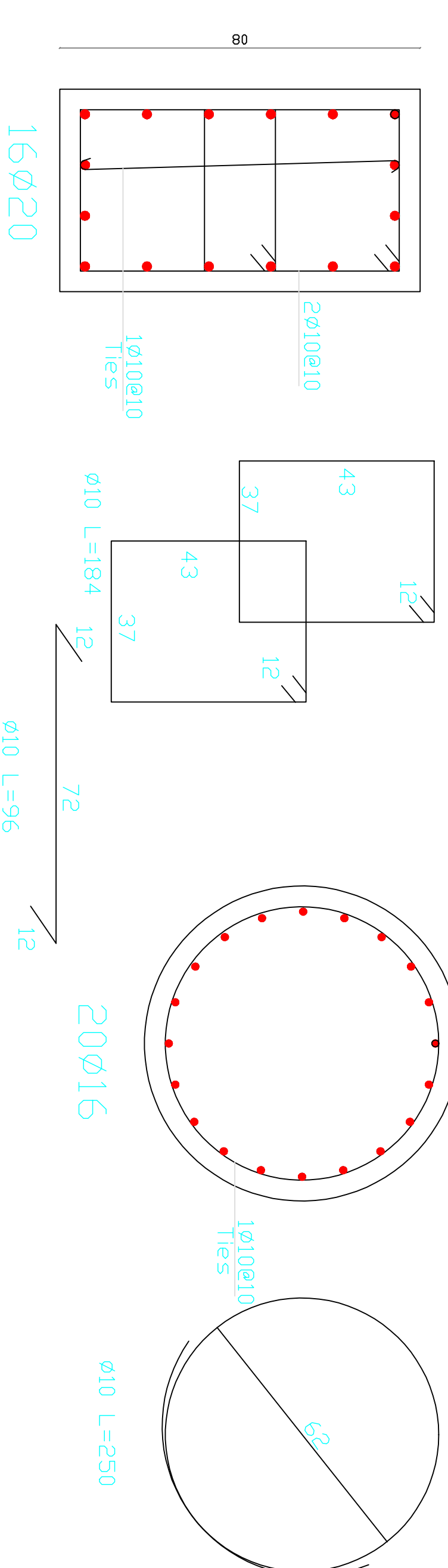


16 ϕ 20

ϕ 10 L=178

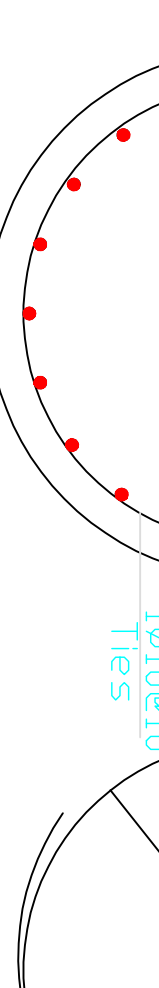
Detailing Of Columns No.(5)

col(10,12)



16 ϕ 20

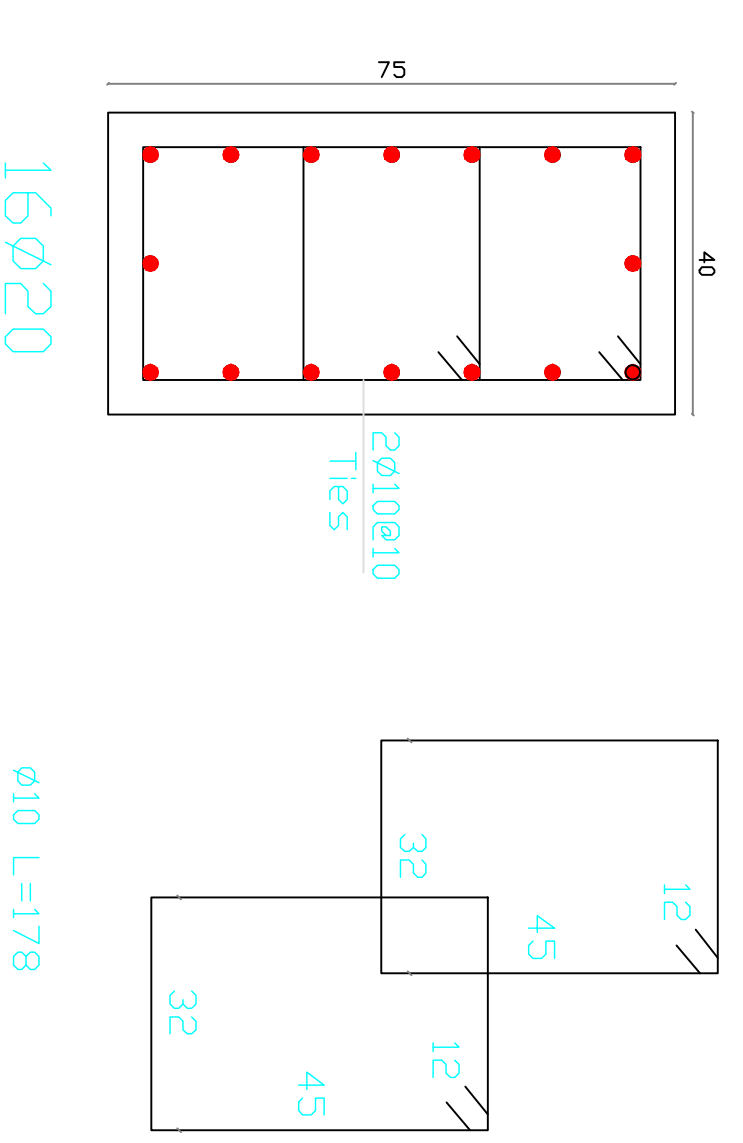
ϕ 10 L=184



ϕ 10 L=250

Detailing Of Columns No.(4)

col(11,13)

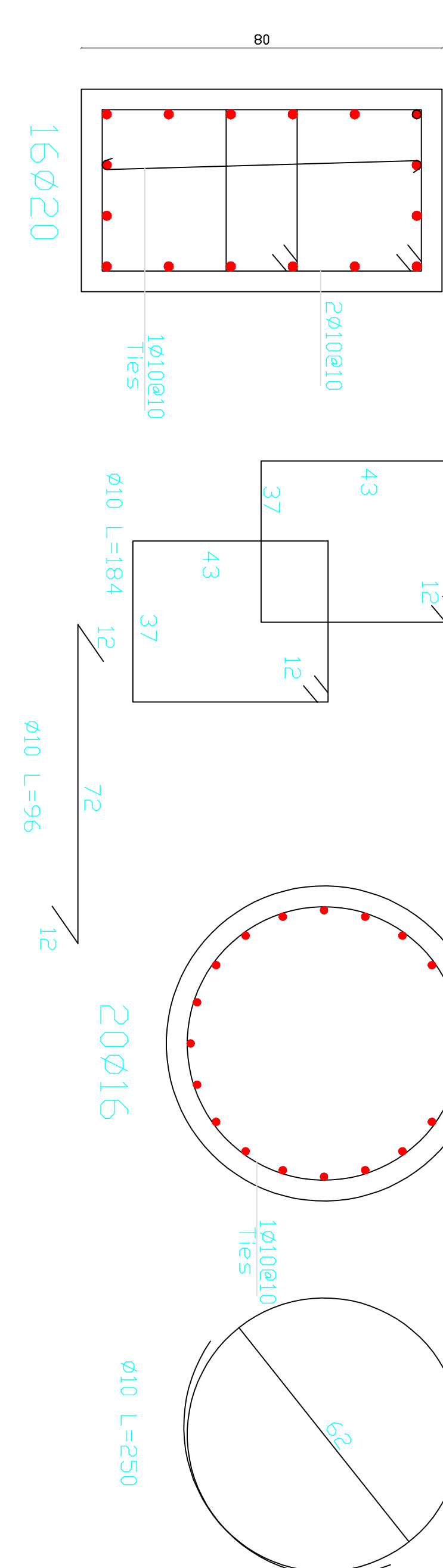


16 ϕ 20

ϕ 10 L=178

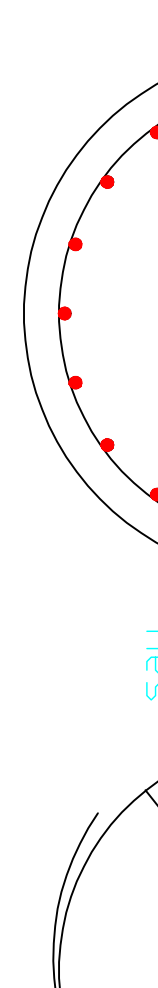
Detailing Of Columns No.(5)

col(10,12)



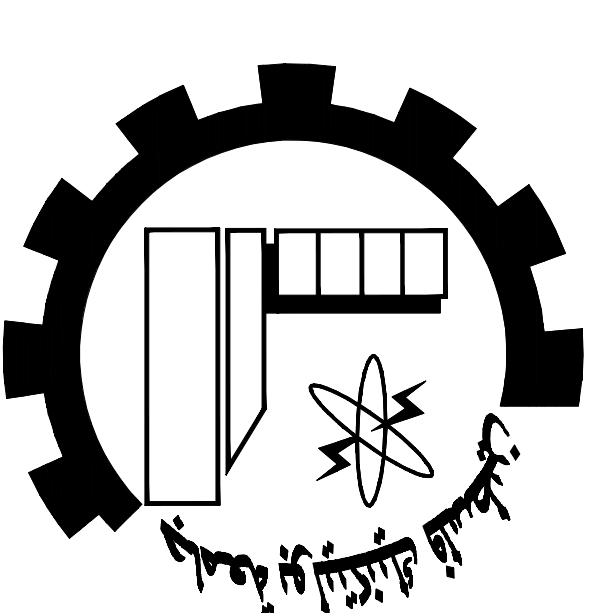
16 ϕ 20

ϕ 10 L=184



ϕ 10 L=250

GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Columns Details

Supervisor :

Dr. Mohammad Taha

SCALE:

1/25

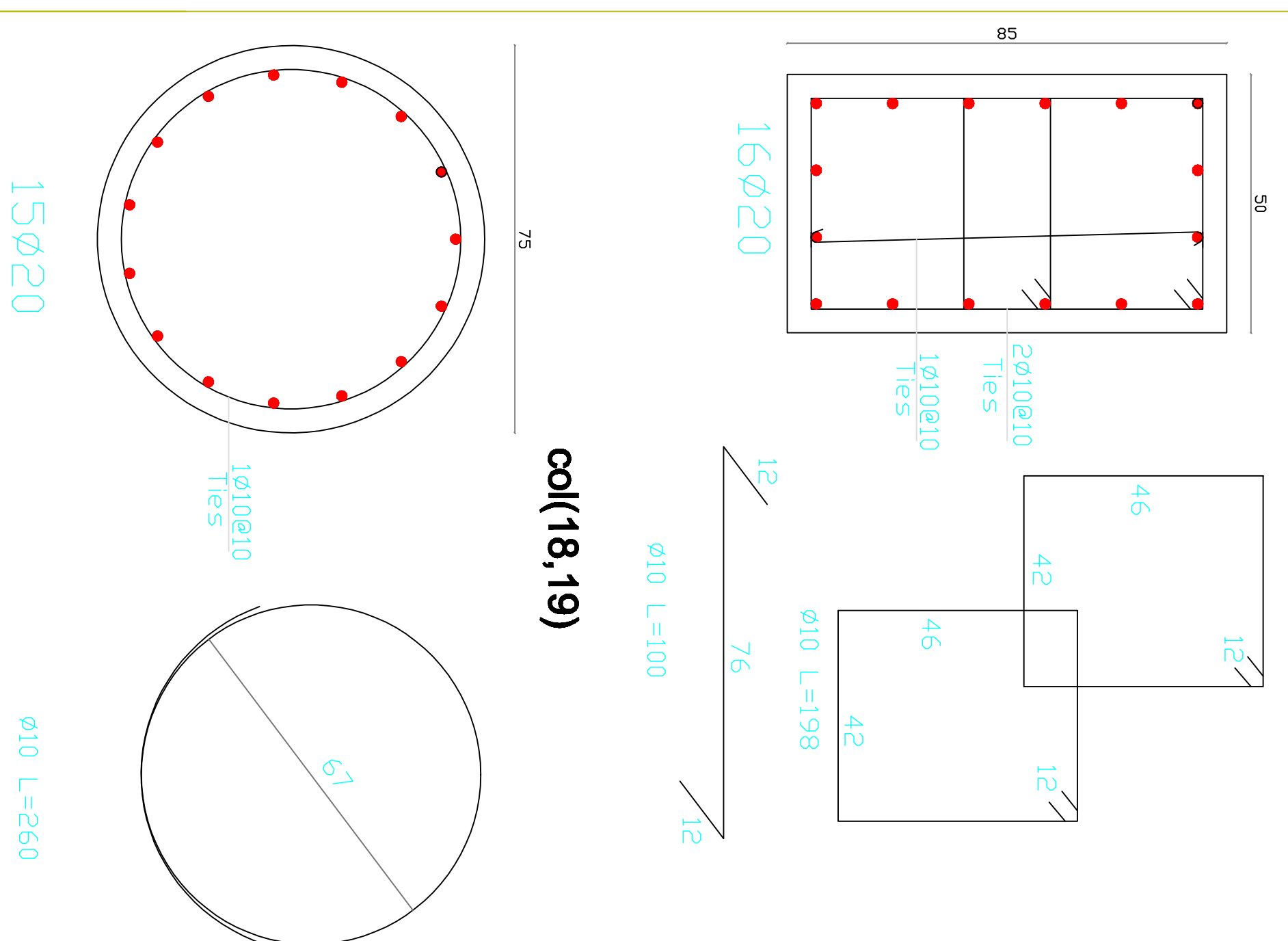
S07

FLOOR

Ground Floor First Floor Second Floor

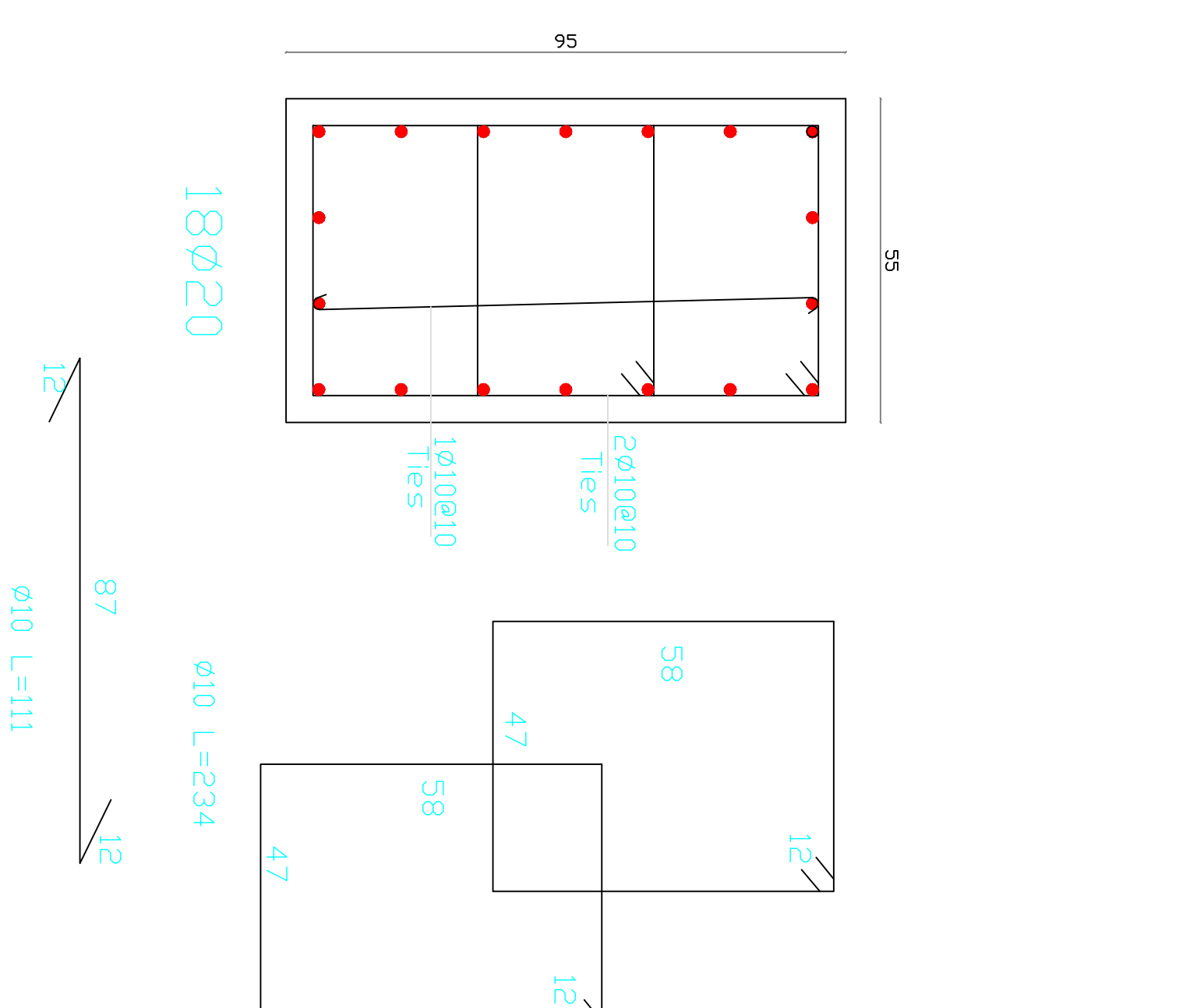
Detailing Of Columns No.(6)

col(16,34,35,54)



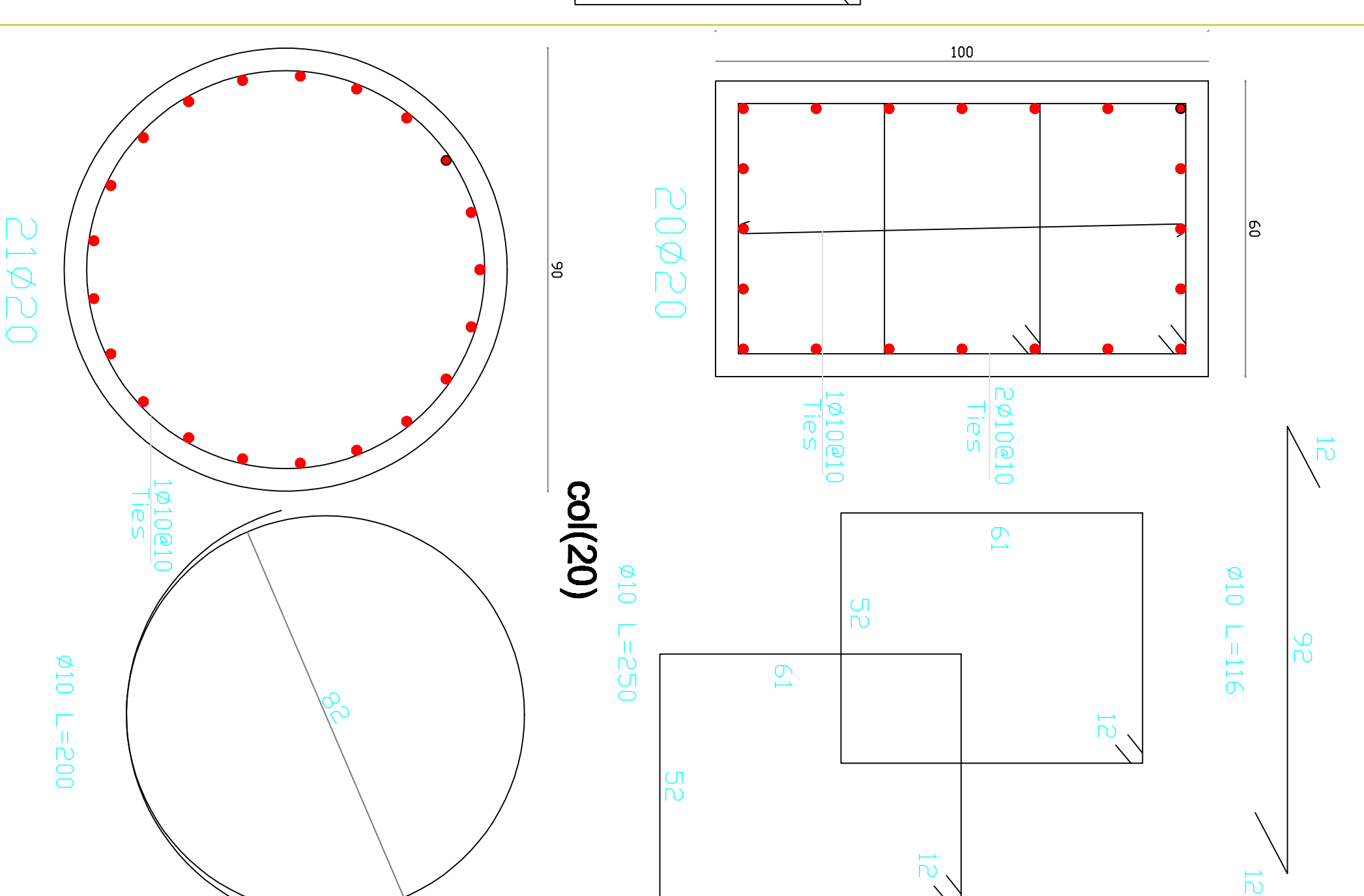
Detailing Of Columns No.(7)

col(9, 17,30)



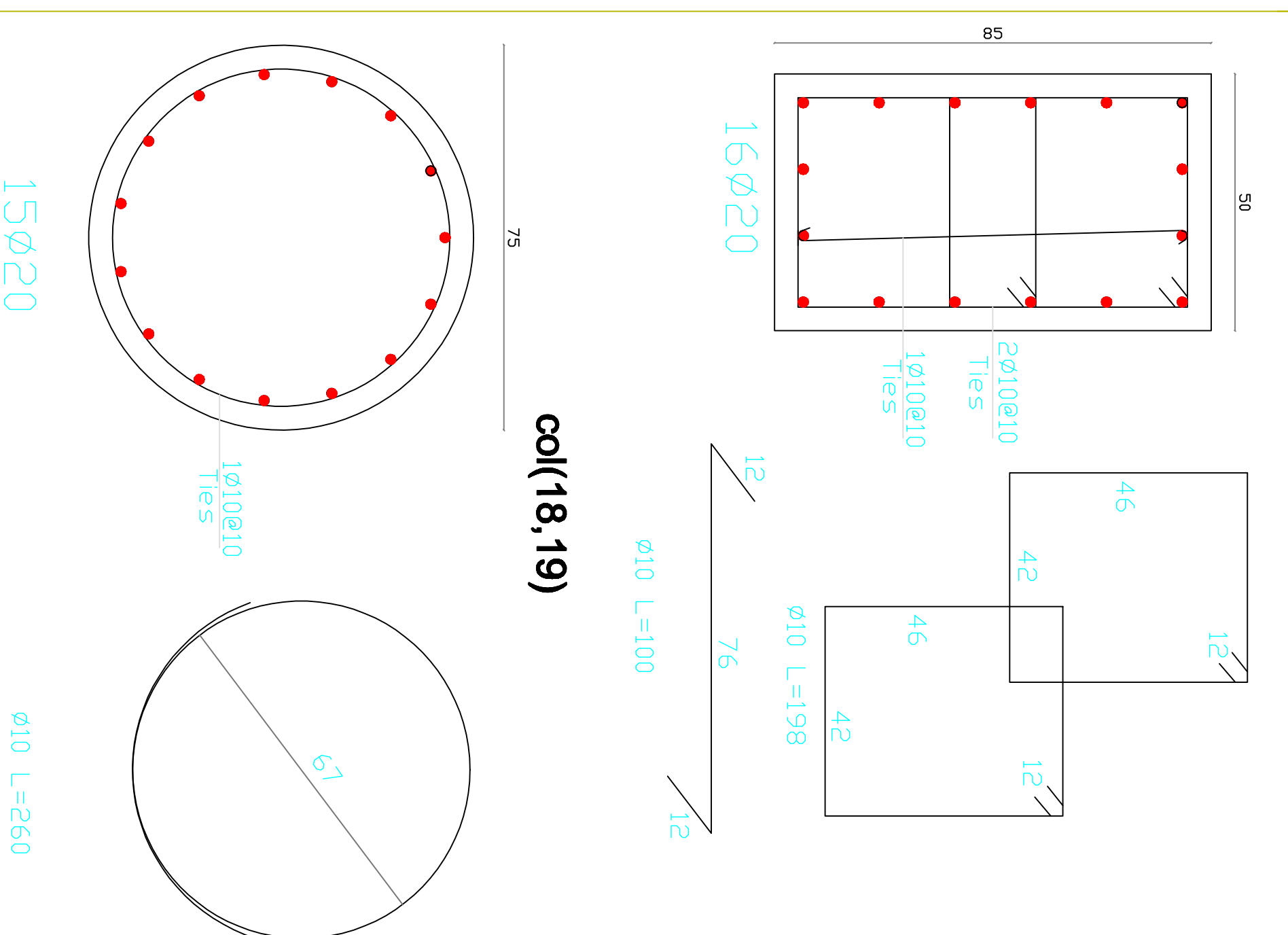
Detailing Of Columns No.(8)

col(11,23)



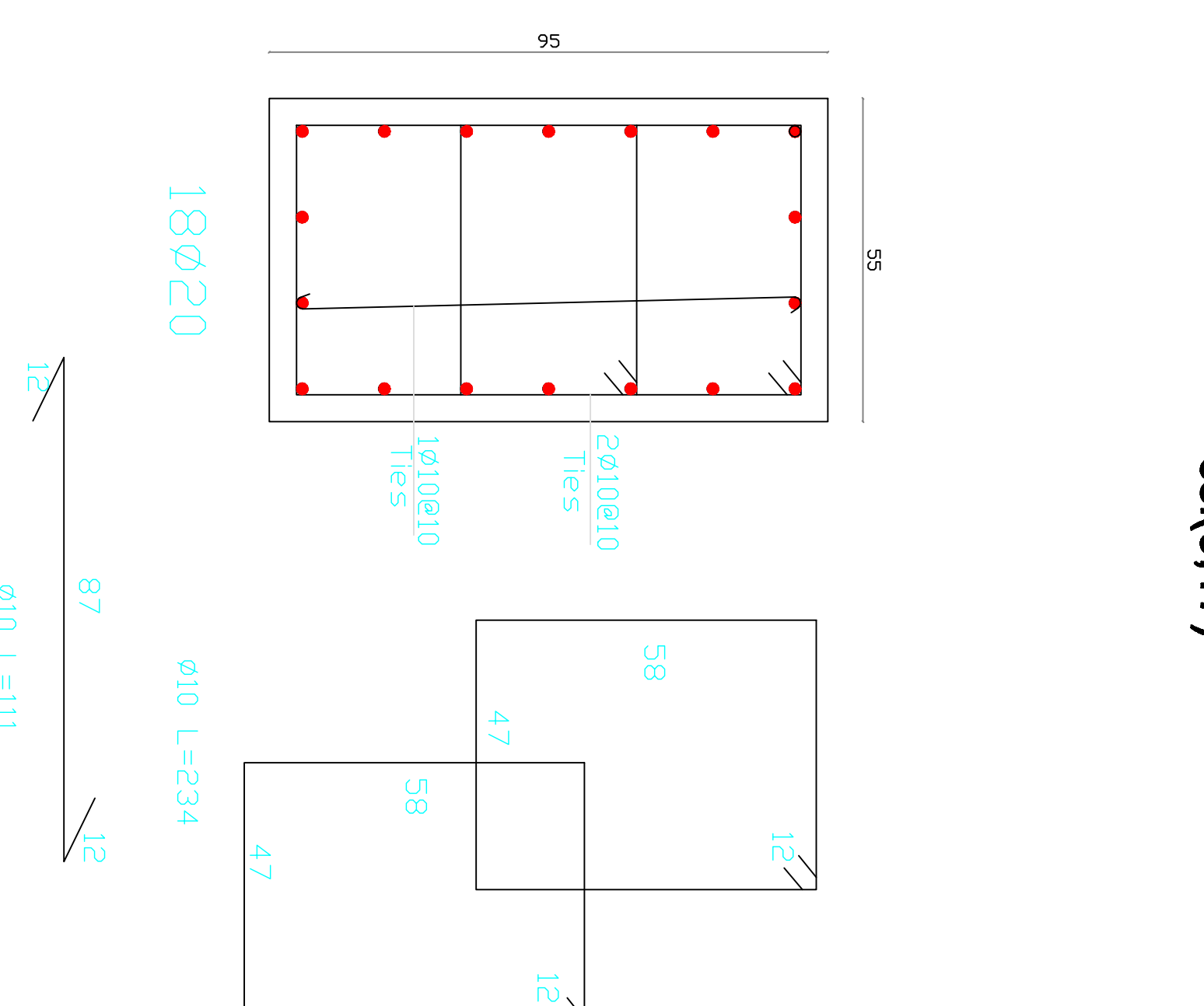
Detailing Of Columns No.(6)

col(16)



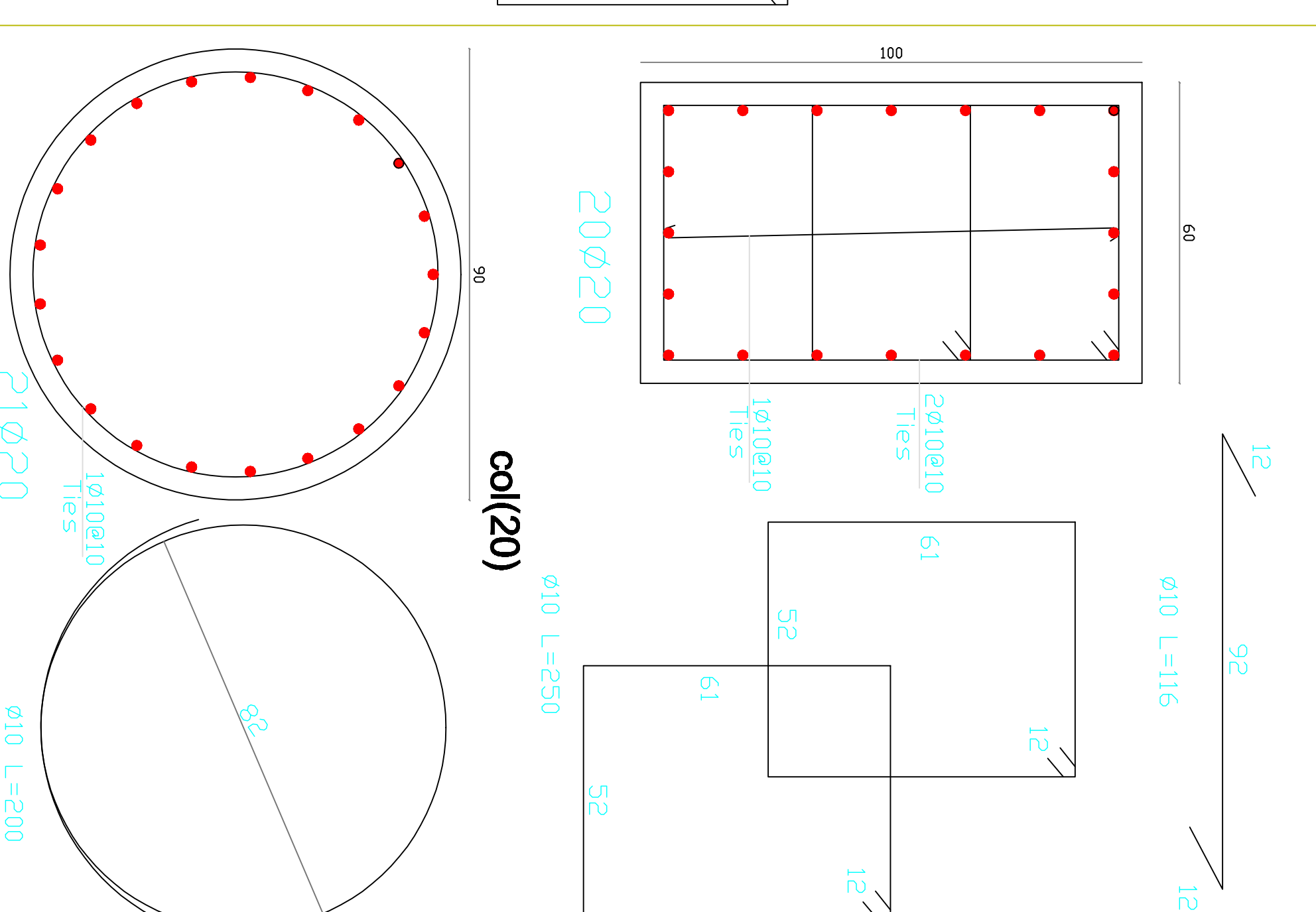
Detailing Of Columns No.(7)

col(9,17)

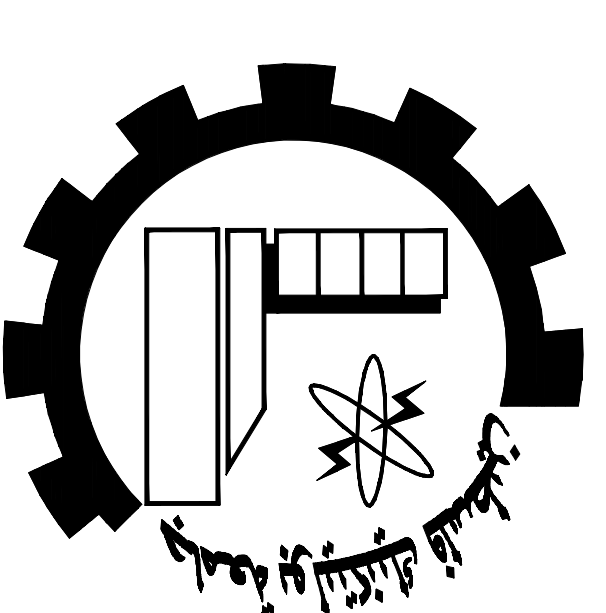


Detailing Of Columns No.(8)

col(11,23)



GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

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Omar Khamayseh

Issam Hassouna

Abed Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Columns Details

Supervisor :

Dr. Mohammad Taha

SCALE:

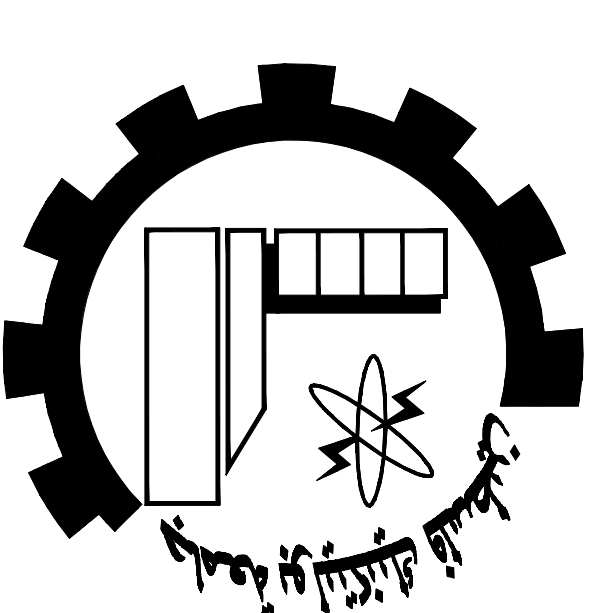
1 / 25

S08

FLOOR

Column's Design Sections

GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
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Palestine Polytechnic University

Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abded Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Columns Details

Supervisor :

Dr. Mohammad Taha

SCALE:

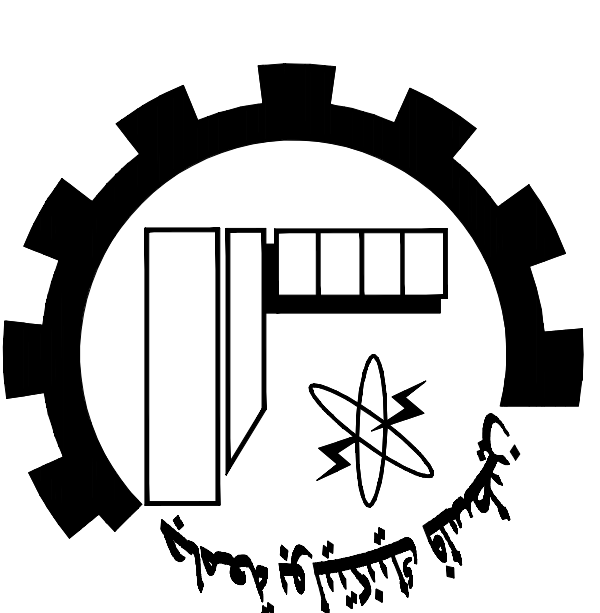
1/25

S09

Column's Design Sections		
<p>Ground Floor</p> <p>First Floor</p> <p>Secound Floor</p>	<p>Detailing Of Columns No.(9)</p> <p>col(12)</p>	<p>Detailing Of Columns No.(10)</p> <p>col(10)</p>
<p>Third Floor</p>	<p>Detailing Of Columns No.(9)</p> <p>col(12)</p>	<p>Detailing Of Columns No.(10)</p> <p>col(10)</p>
	<p>Detailing Of Columns No.(11)</p> <p>col(36,51)</p>	<p>col(51)</p>

FLOOR

GENERAL NOTES



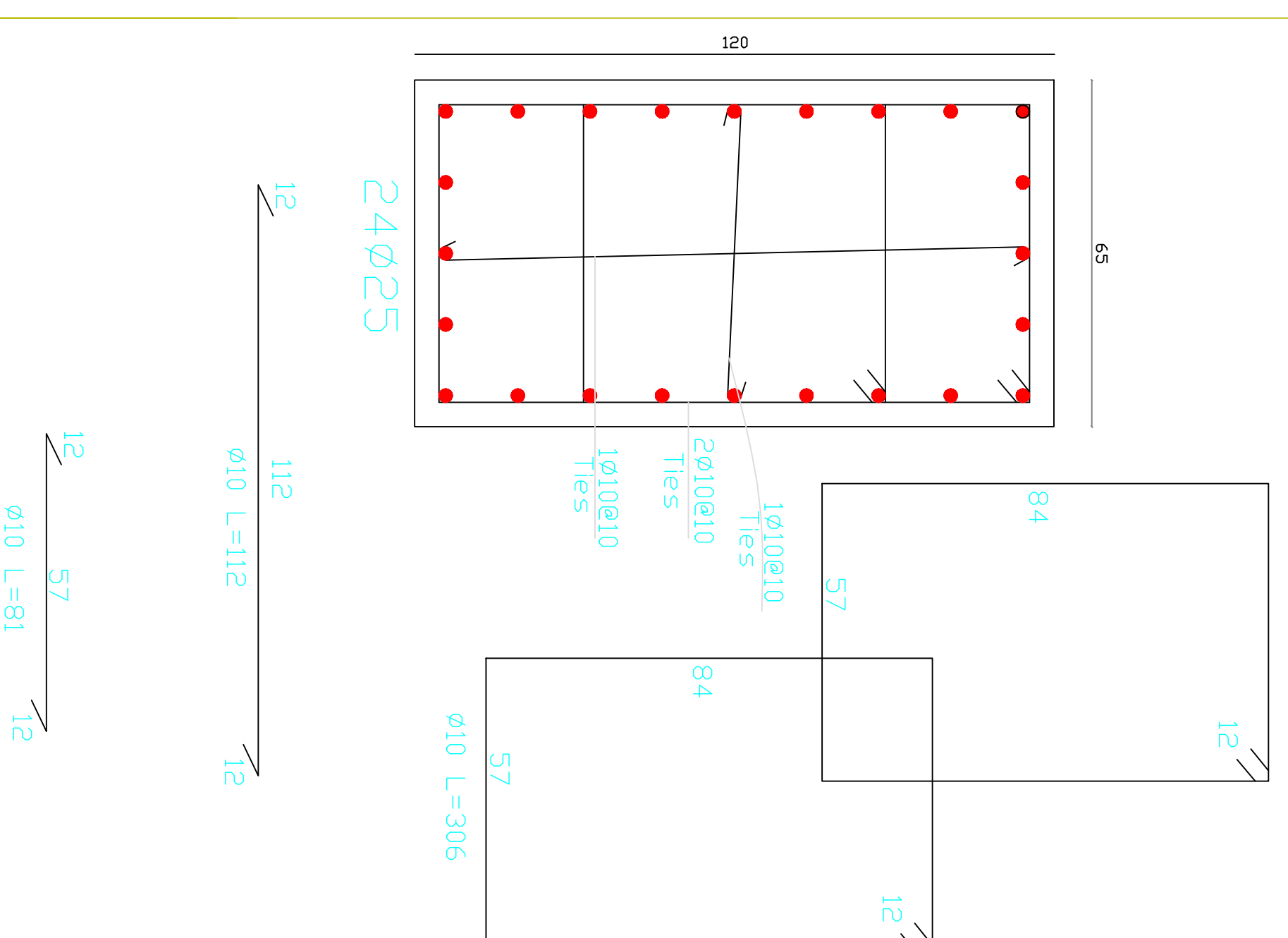
NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Ground Floor First Floor Secound Floor

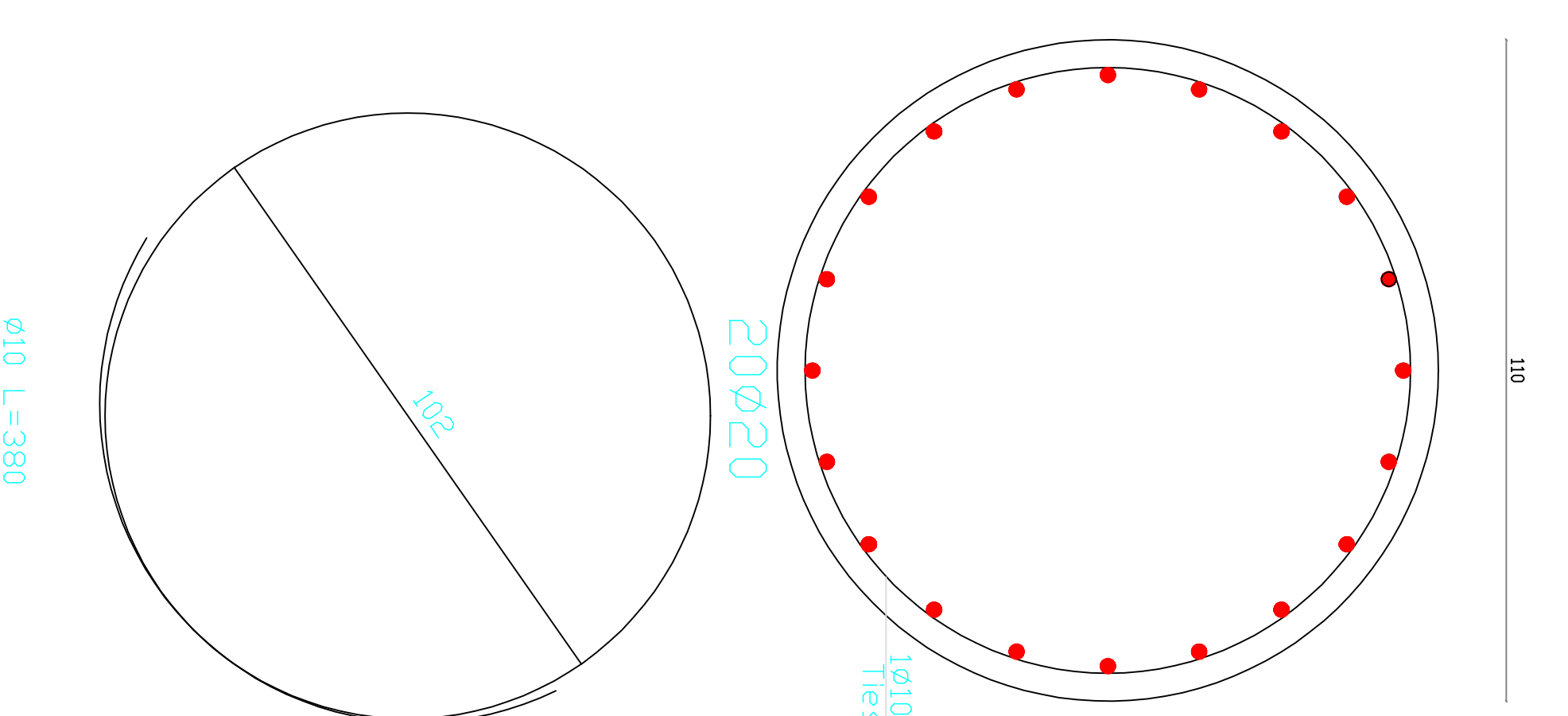
Detailing Of Columns No.(12)

col(37)



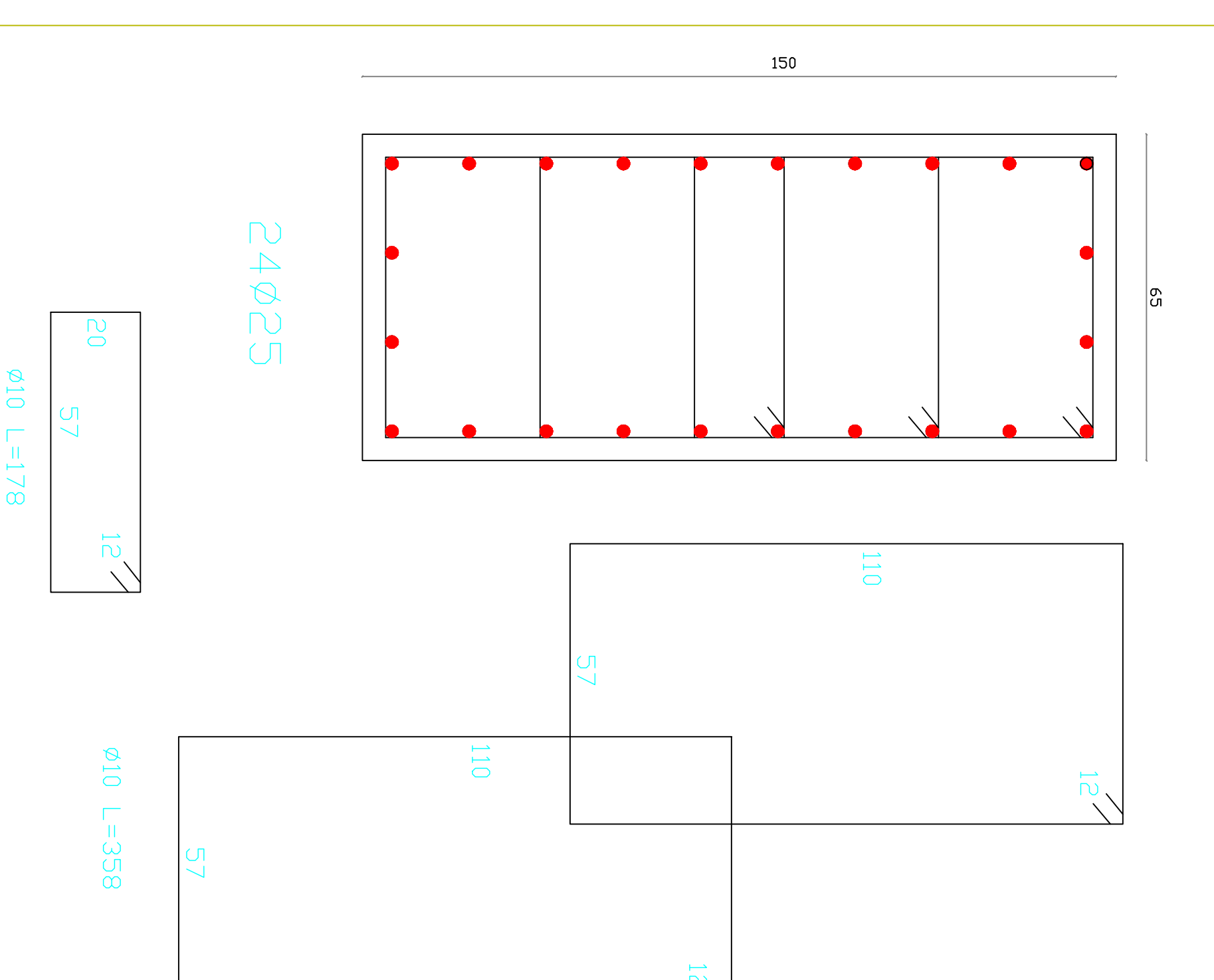
Detailing Of Columns No.(13)

col(40)



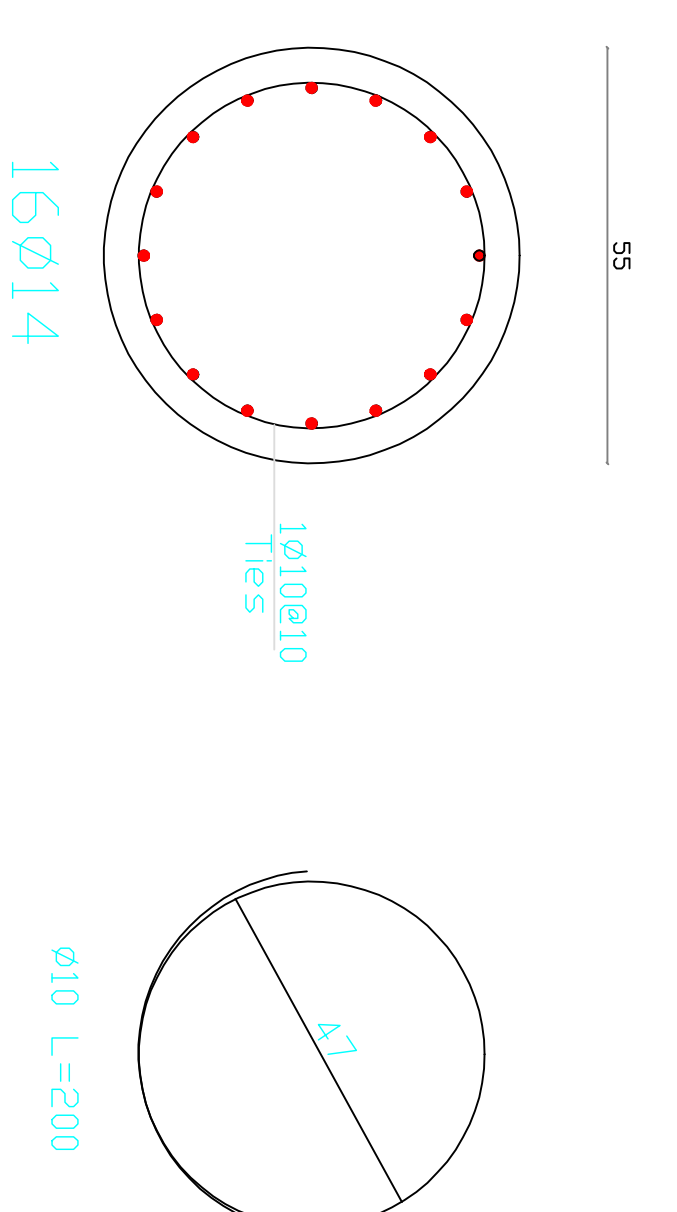
Detailing Of Columns No.(14)

col(38)



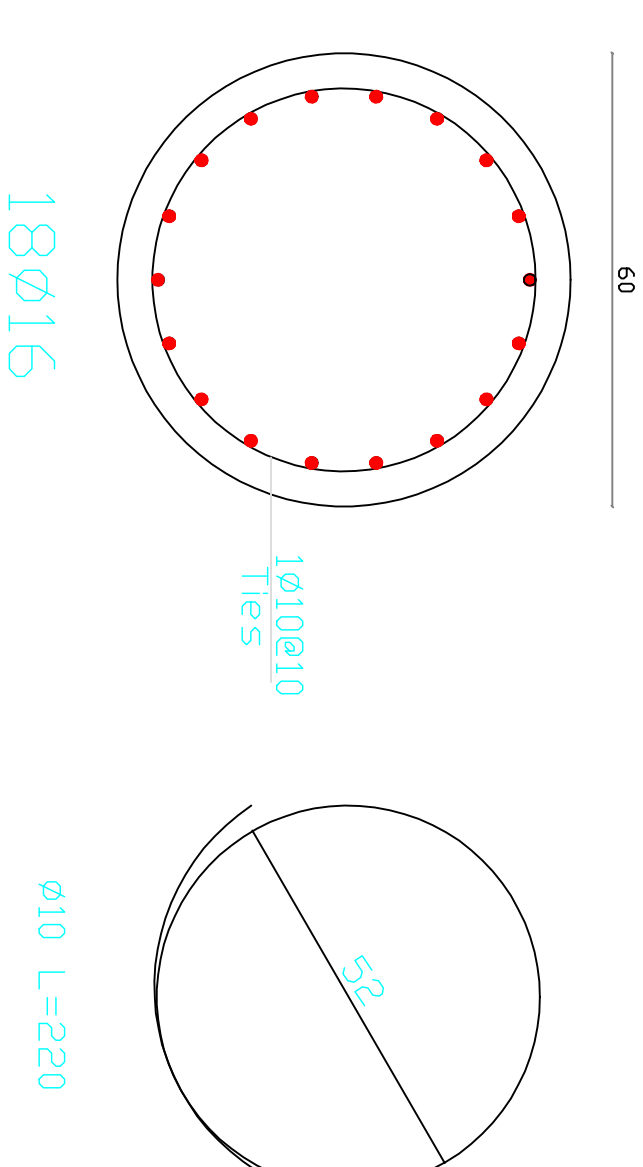
Detailing Of Columns No.(3)

col(18,19)



Detailing Of Columns No.(4)

col(20)



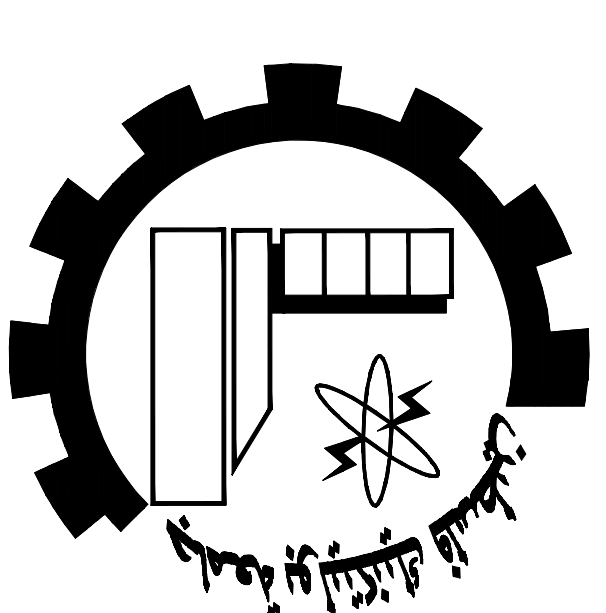
Fourth Floor Fifth Floor

SCALE:
1/25

S10

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering
Designed By:
Israa Rabai
Omar Khamayseh
Issam Hassouna
Abded Al-fatrah Jawabreh
Mohammad Abu Zalath
Drawing Title :
Columns Details
Supervisor :
Dr. Mohammad Taha

GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:
Israa Rabai
Omar Khamayseh
Issam Hassouna
Abded Al-fatah Jawabreh
Mohammad Abu Zalath

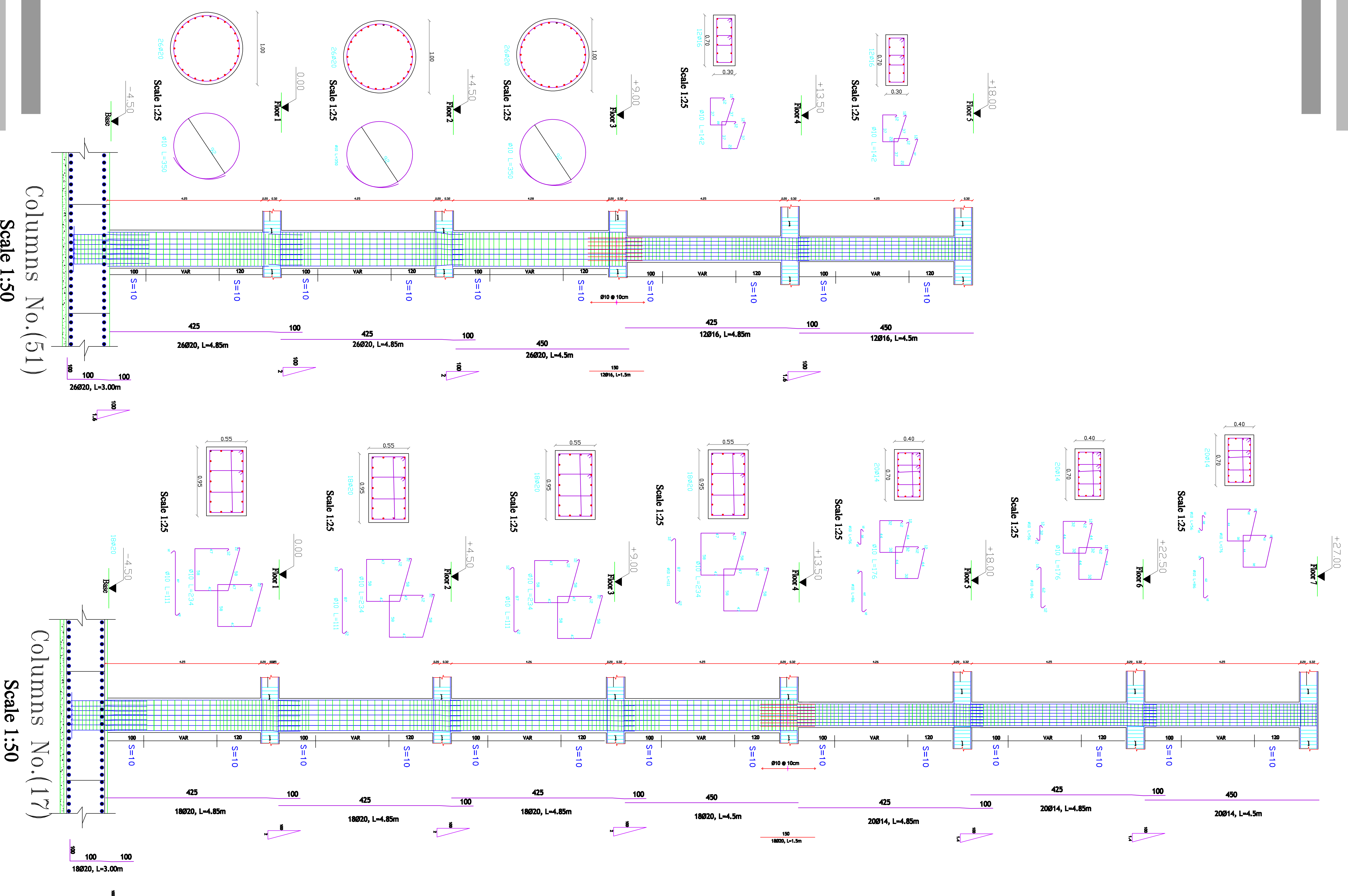
Drawing Title :
Columns Details

Supervisor :
Dr. Mohammad Taha

SCALE:

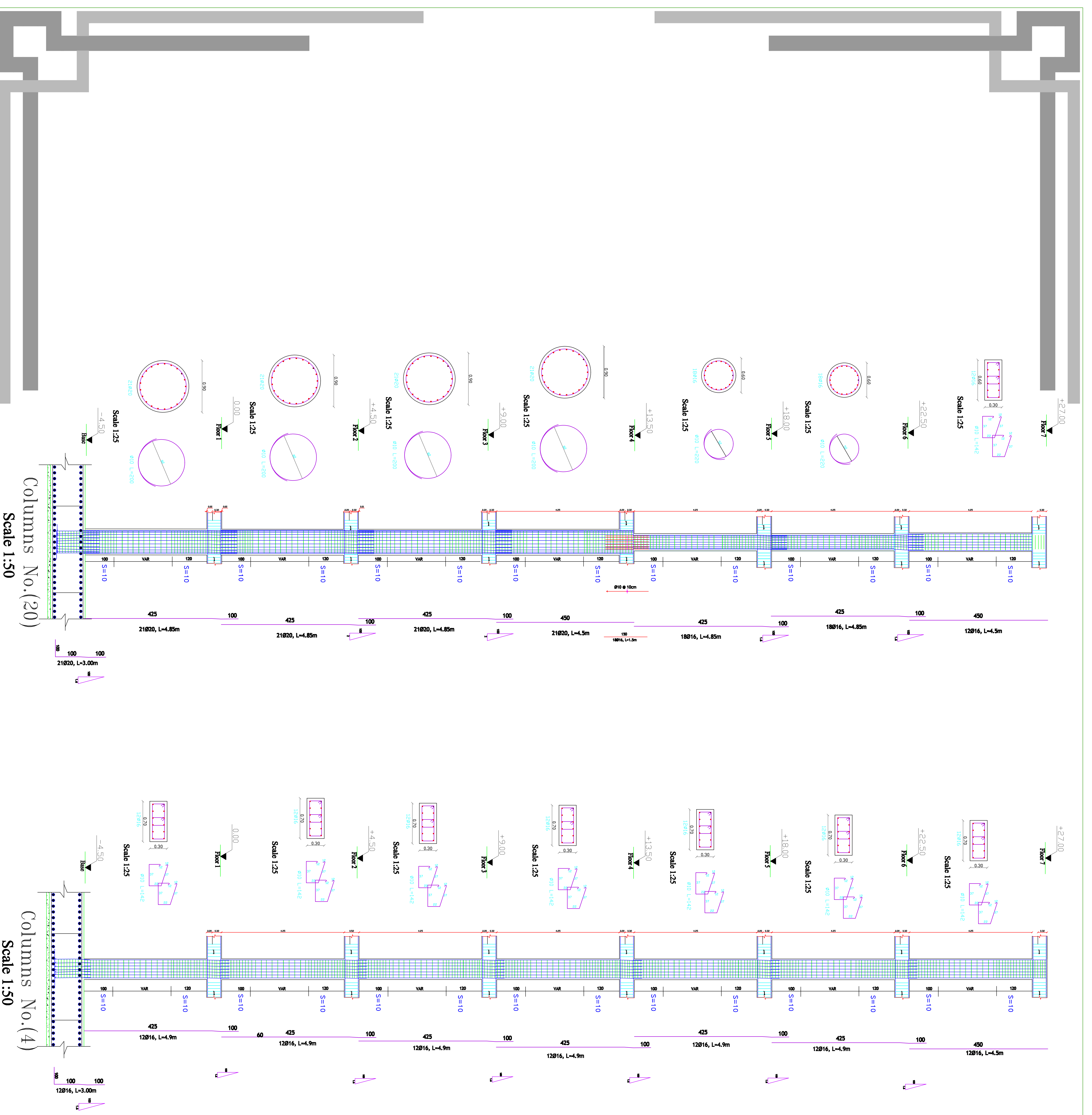
1/50

S11

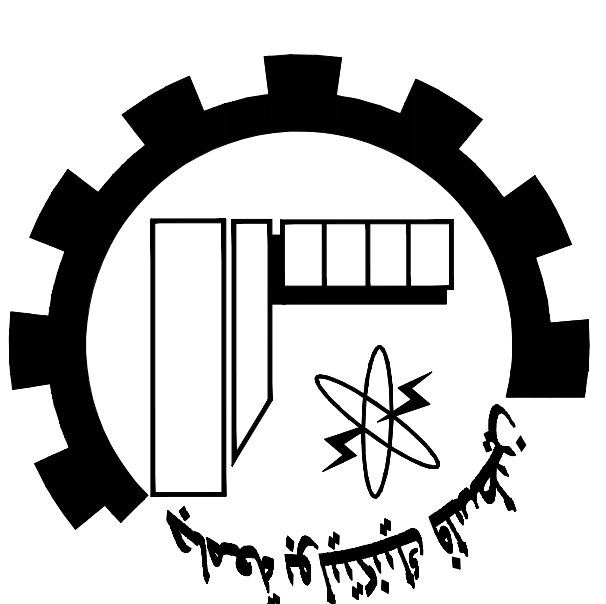


Columns No. (51)
Scale 1:50

Columns No. (17)
Scale 1:50



GENERAL NOTES



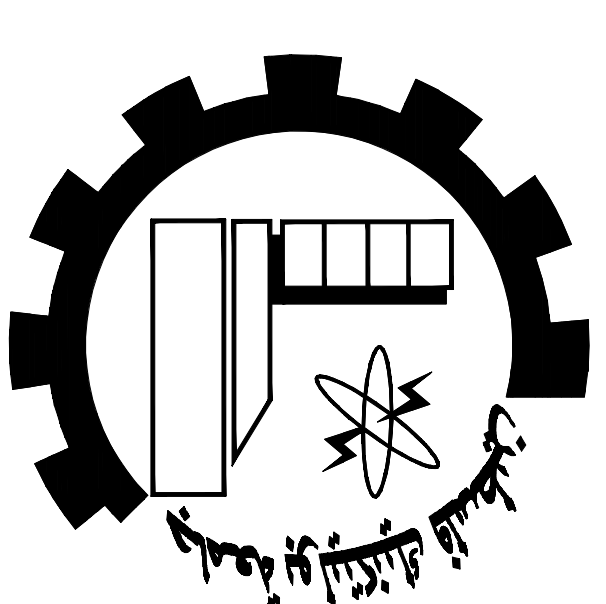
NOTES:

All Dimensions are in Meters.
 Unless otherwise shown.
 All Spot Levels are in Meters.

Palestine Polytechnic University
 Civil. Arch. Eng. Department
Building Engineering
Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatah Jawabreh
 Mohammad Abu Zalath
Drawing Title :
 Columns Details
Supervisor :
 Dr. Mohammad Taha

SCALE:
 1/50 **S112**

GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:
Israa Rabai

Omar Khamayseh

Issam Hassouna

Abded Al-fatrah Jawabreh

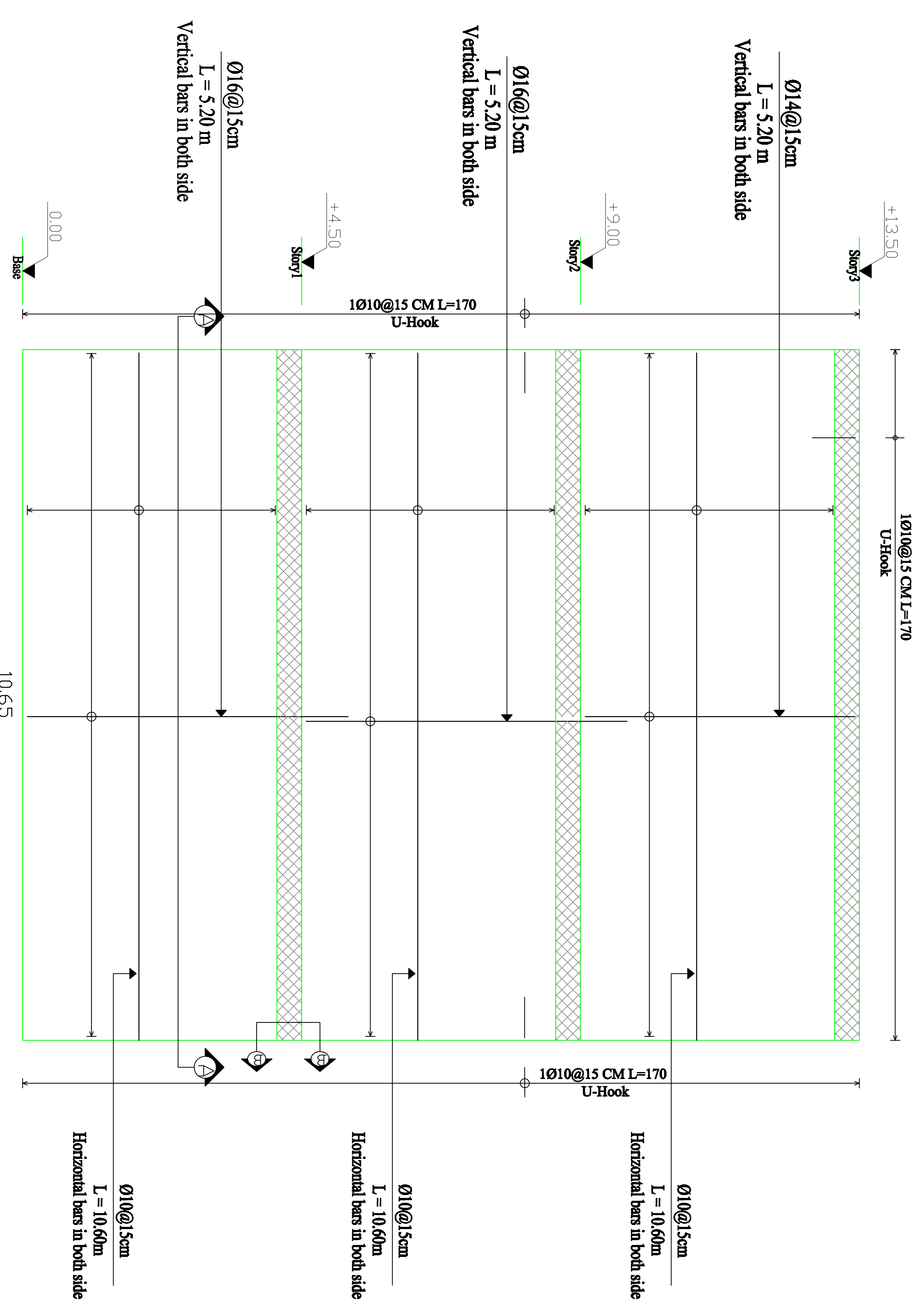
Mohammad Abu Zalath

Drawing Title :

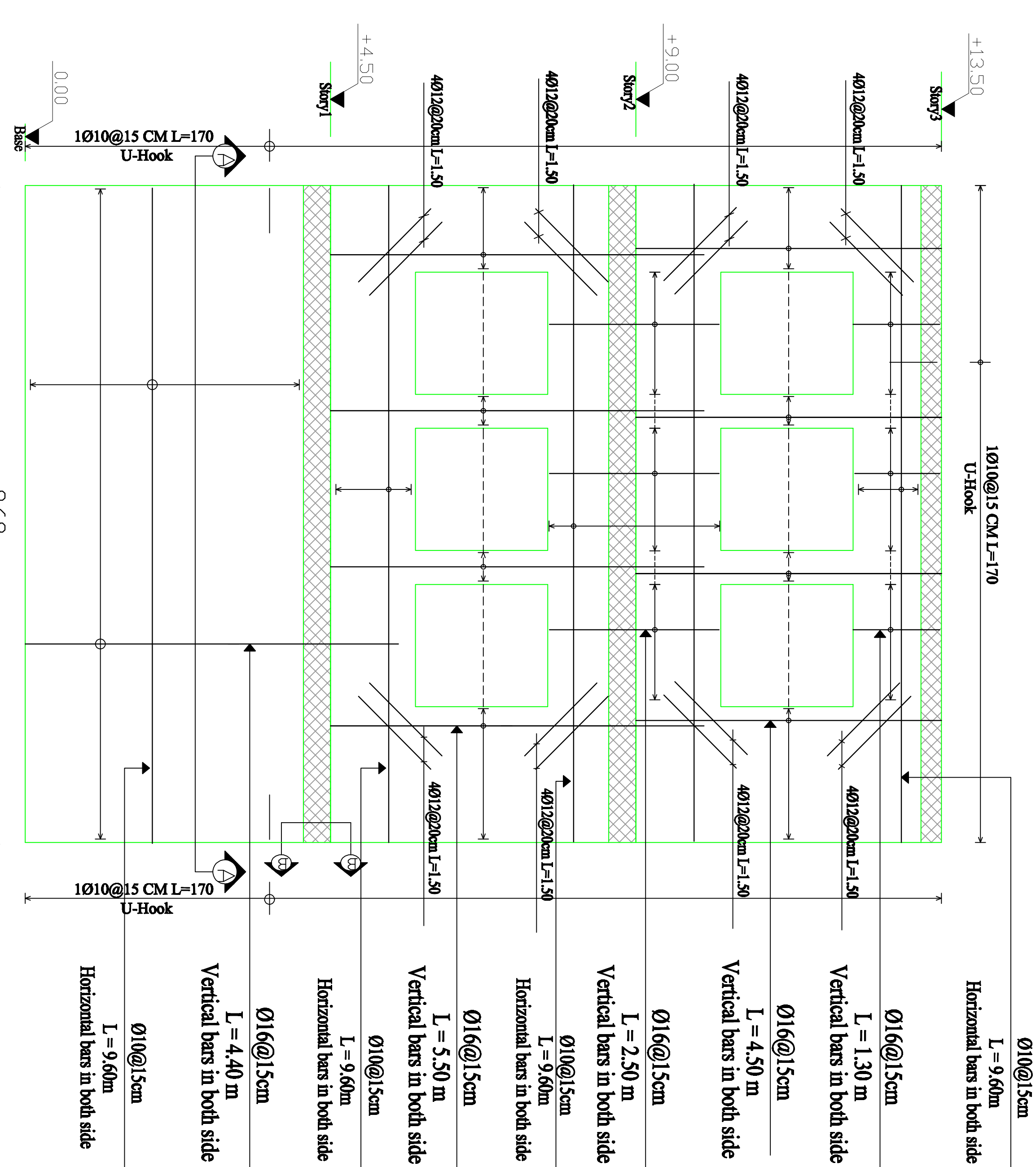
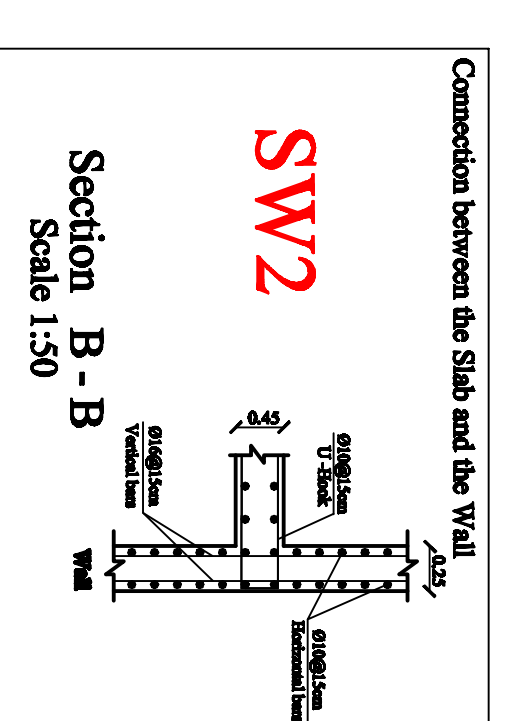
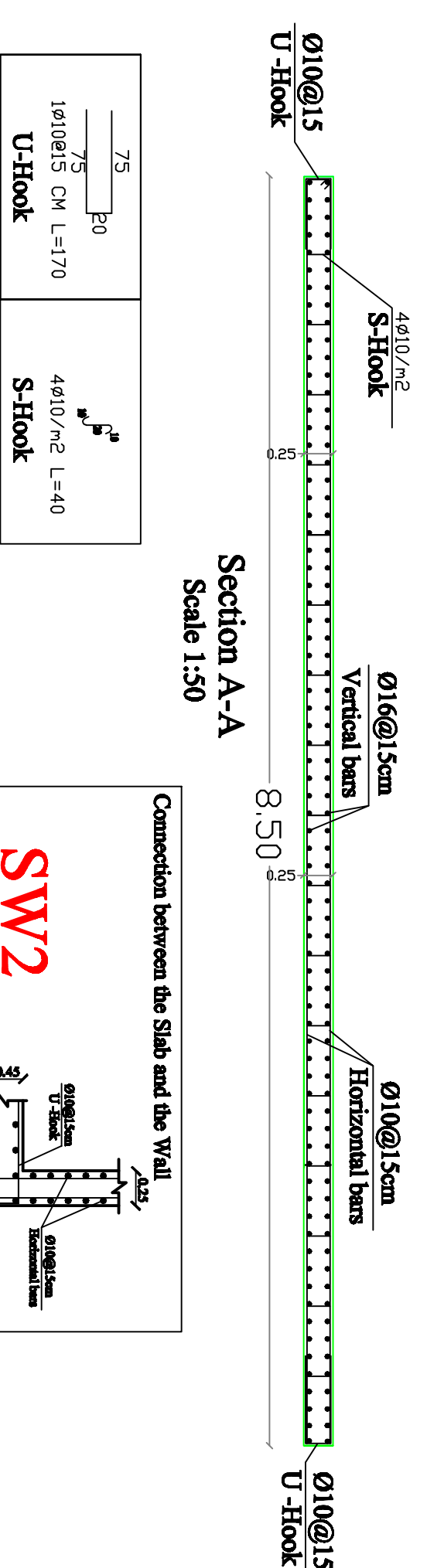
Shear Walls Details

Supervisor :

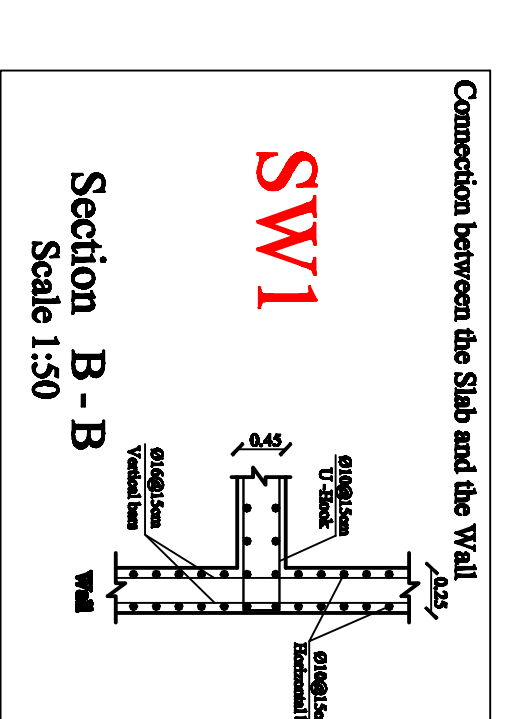
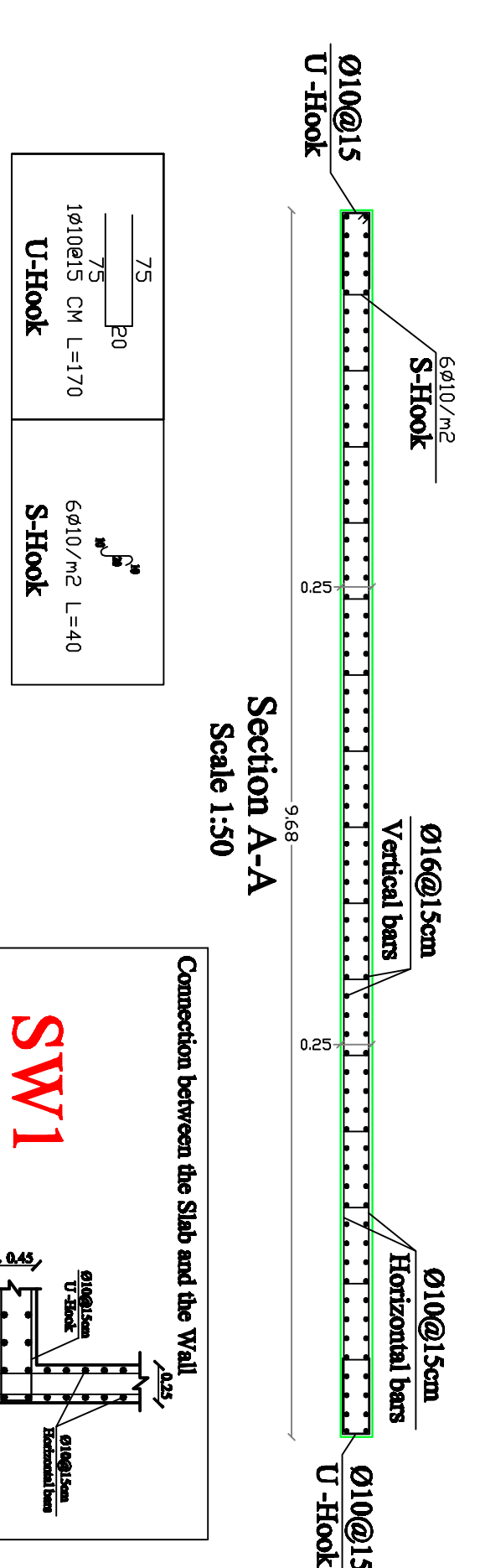
Dr. Mohammad Taha



SW2
SCALE 1:50



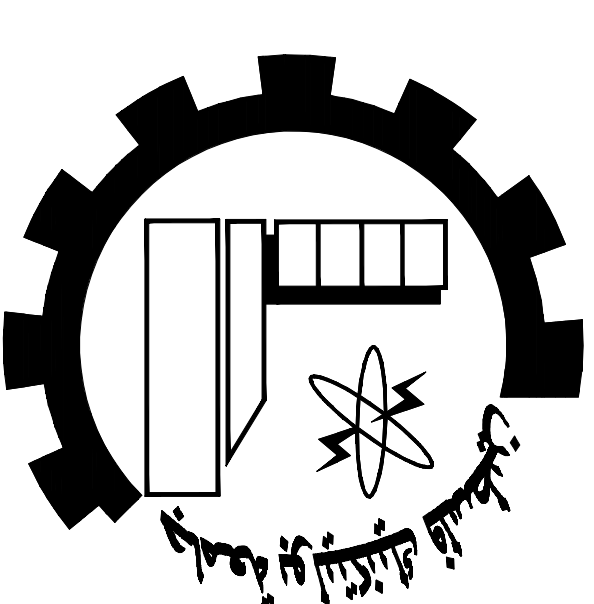
SW1
SCALE 1:50



SCALE:

1/50

S13



GENERAL NOTES

NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:
Israa Rabai
Omar Khamayseh
Issam Hassouna

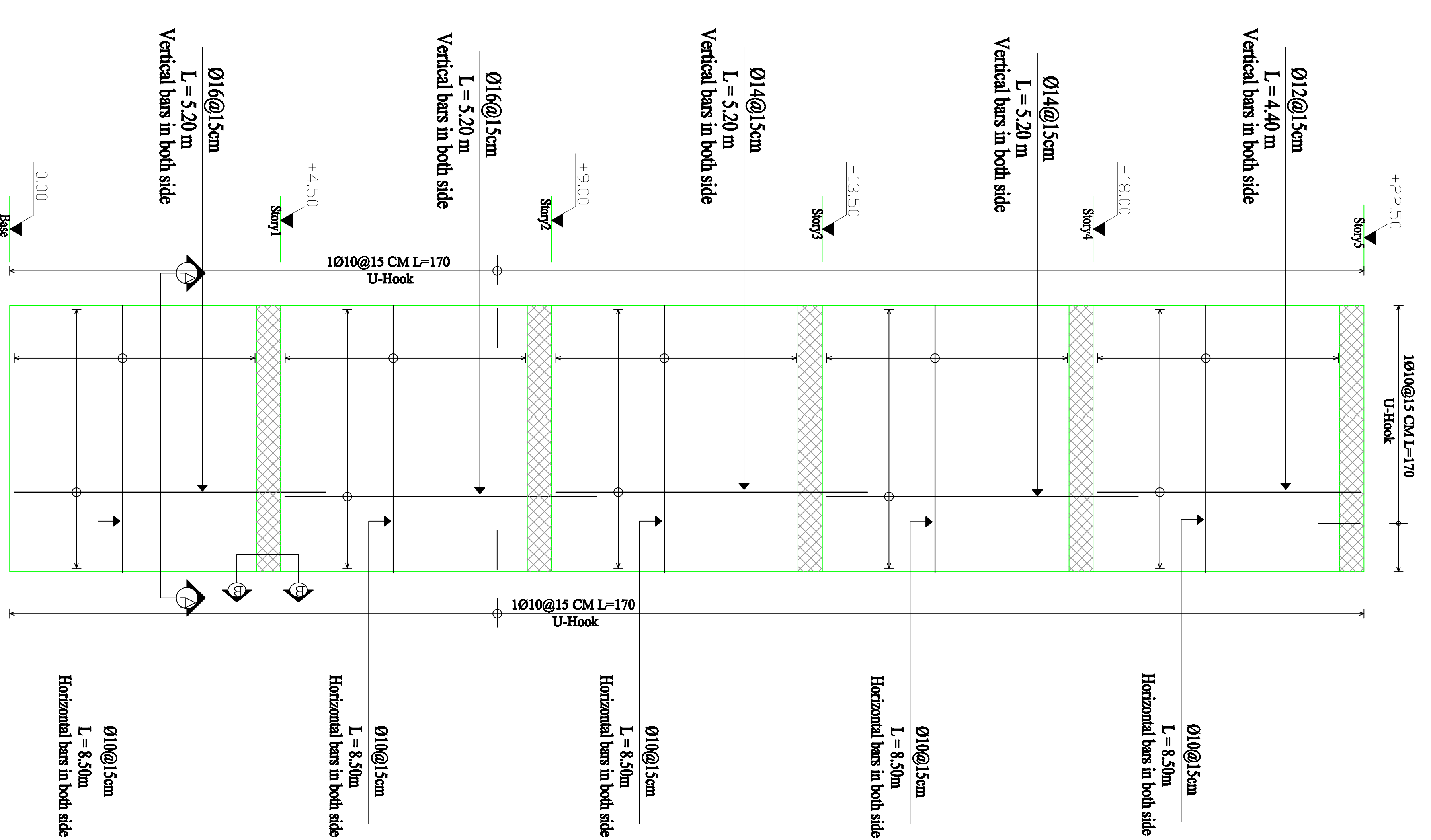
Abded Al-fatrah Jawabreh
Mohammad Abu Zalath
Drawing Title :
Shear Walls Details

Supervisor :
Dr. Mohammad Taha

SCALE:

1/50

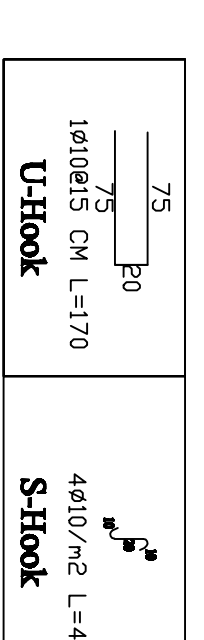
S14



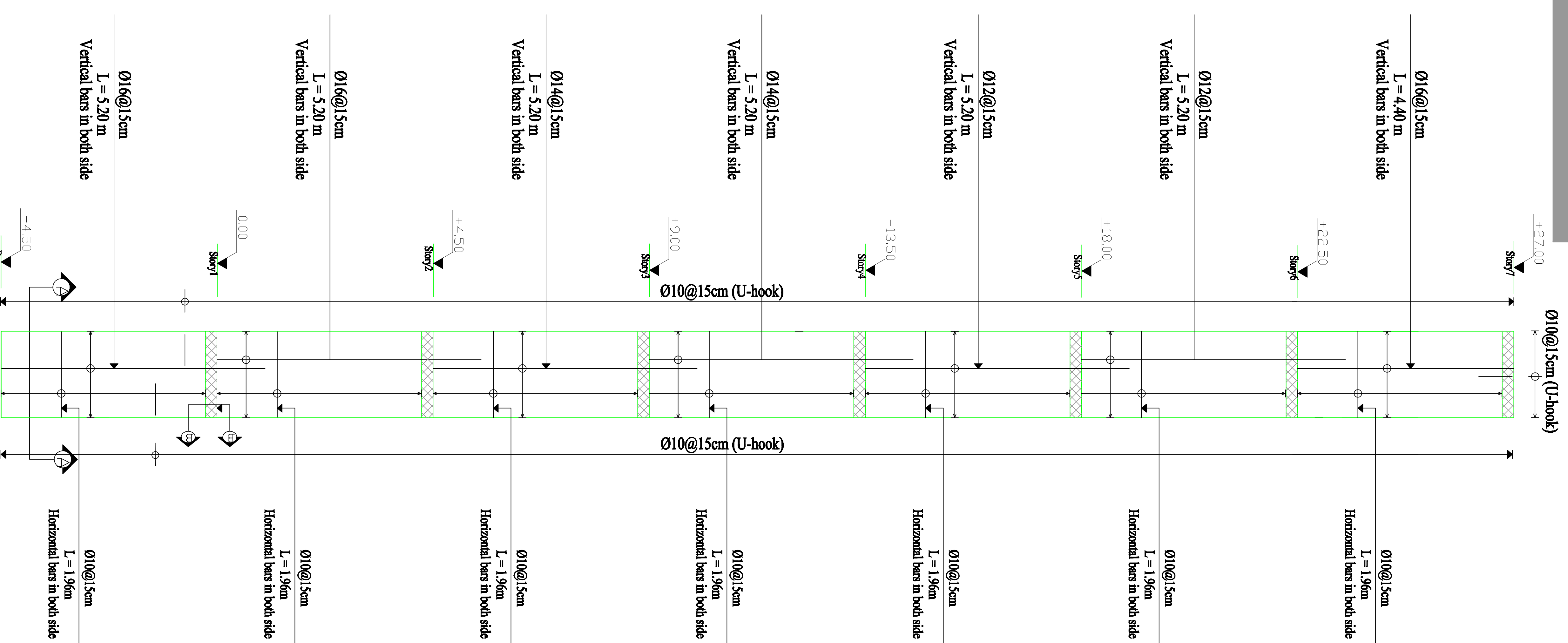
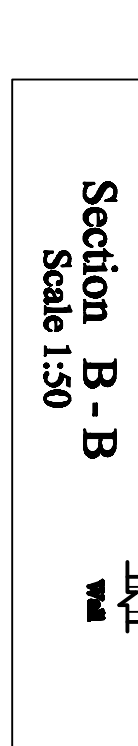
SW3

SCALE 1:50

Section A-A
Scale 1:50

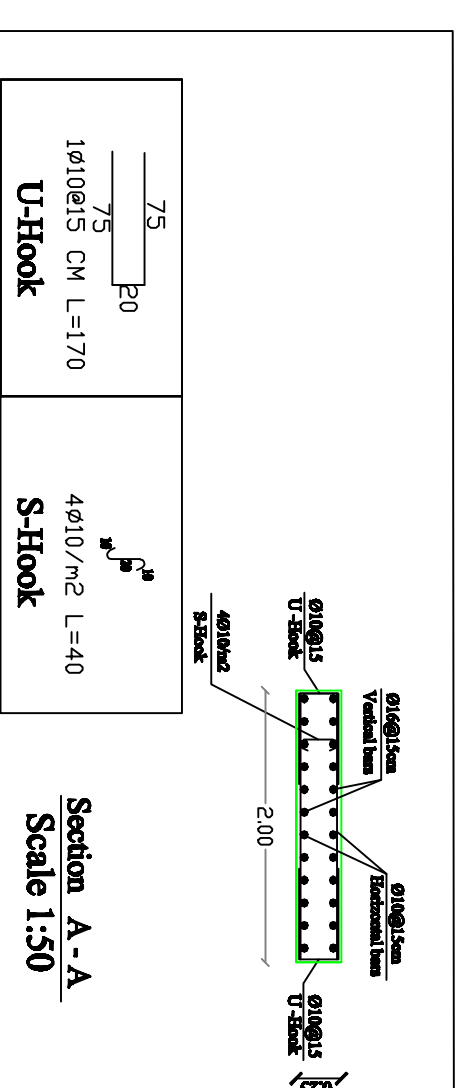


Section B-B
Scale 1:50

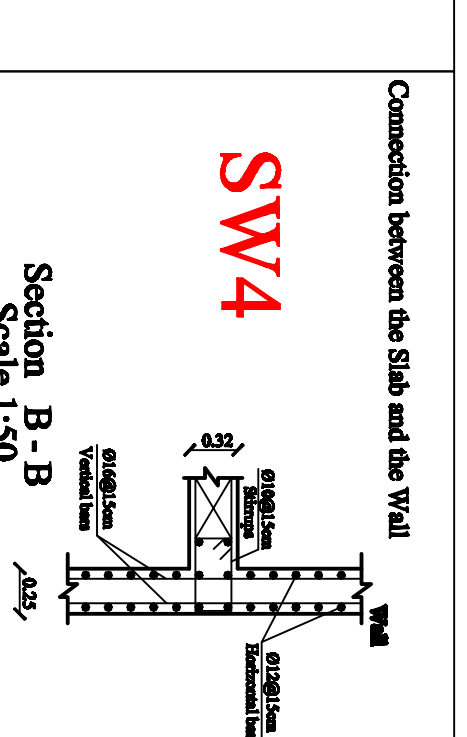


SW4

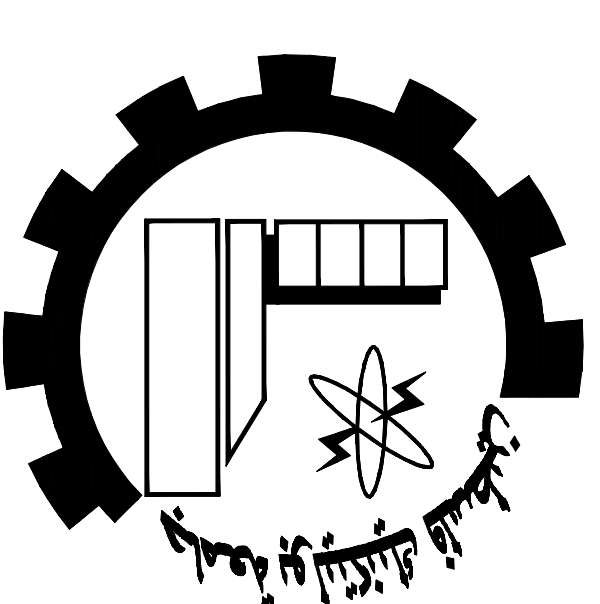
SCALE 1:50



Section A-A
Scale 1:50



Section B-B
Scale 1:50



NOTES:

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Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Shear Walls Details

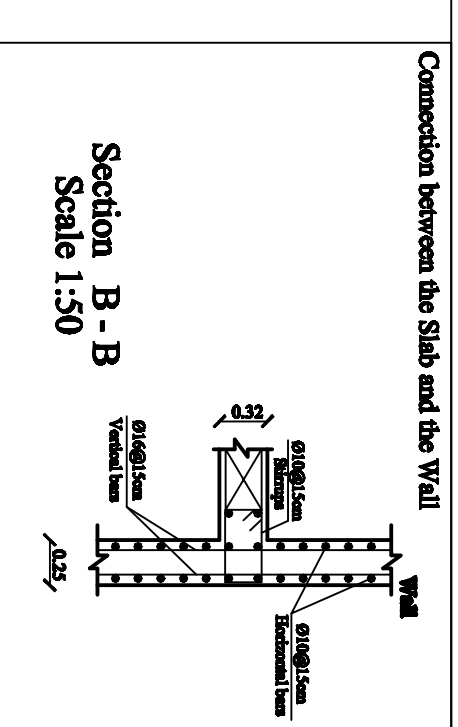
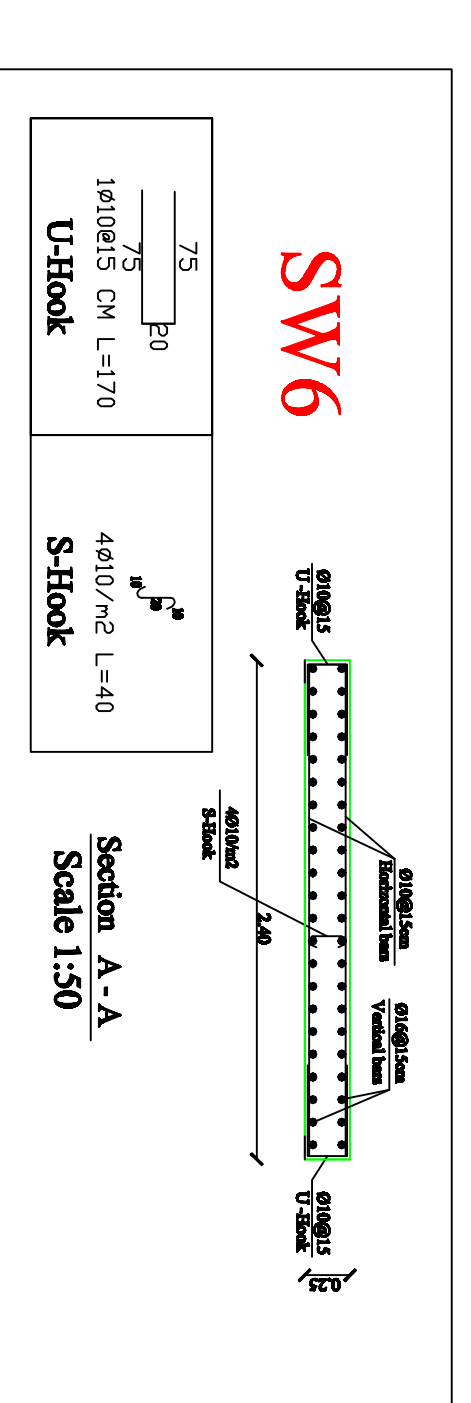
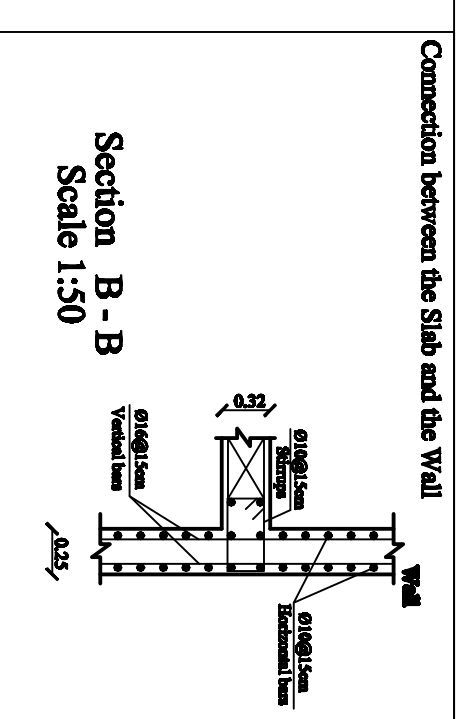
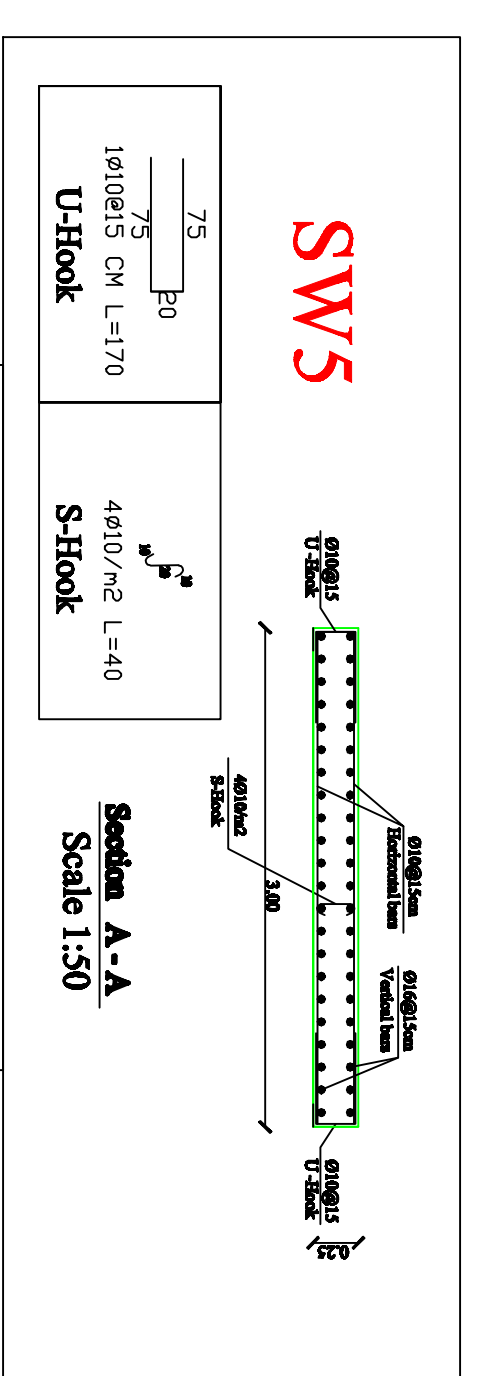
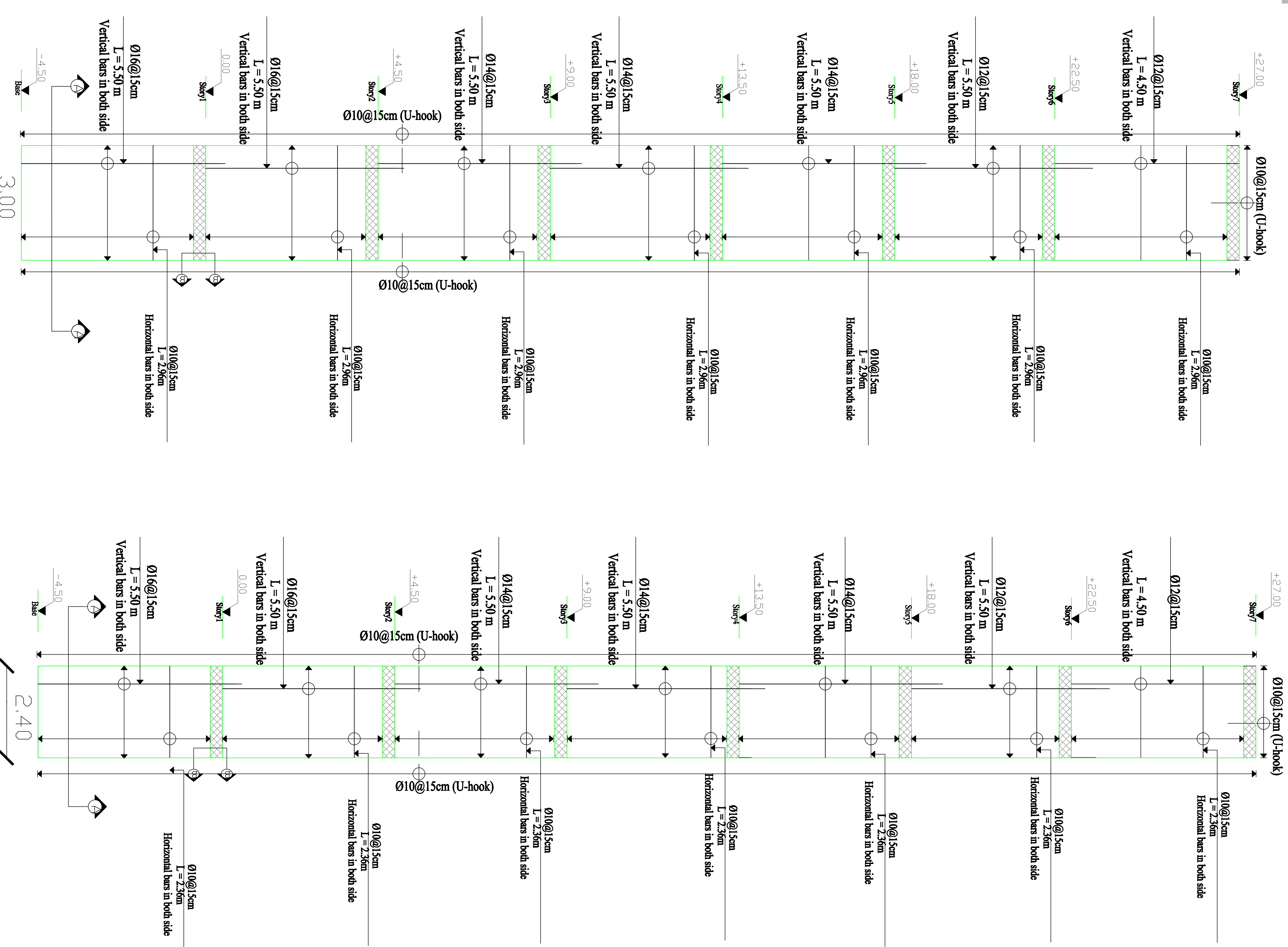
Supervisor :

Dr. Mohammad Taha

SCALE:

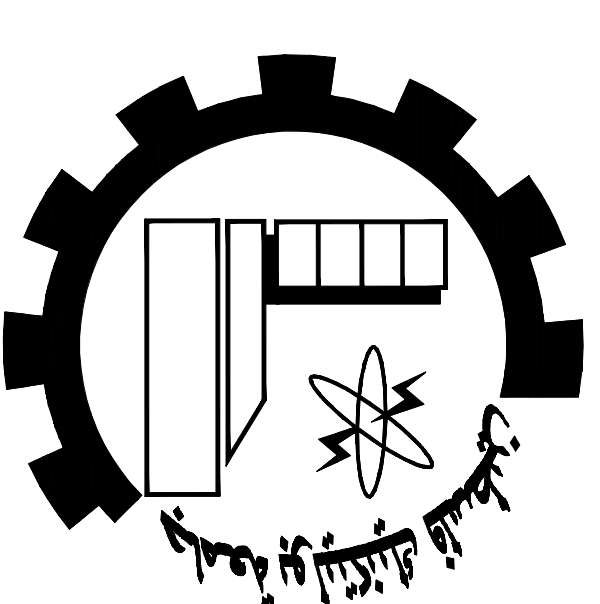
1/50

S15



SW5

SW6



NOTES:

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Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Shear Walls Details

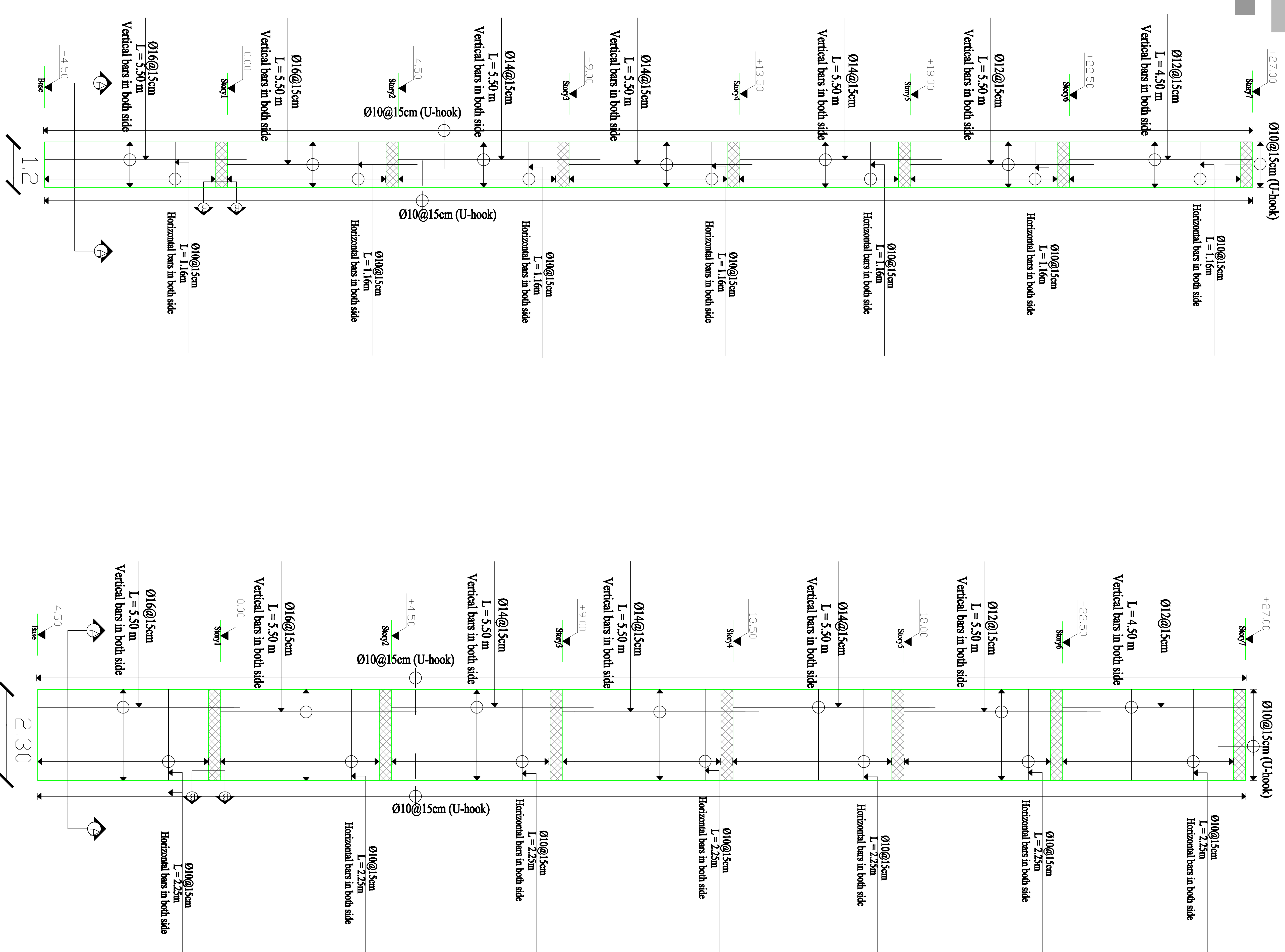
Supervisor :

Dr. Mohammad Taha

SCALE:

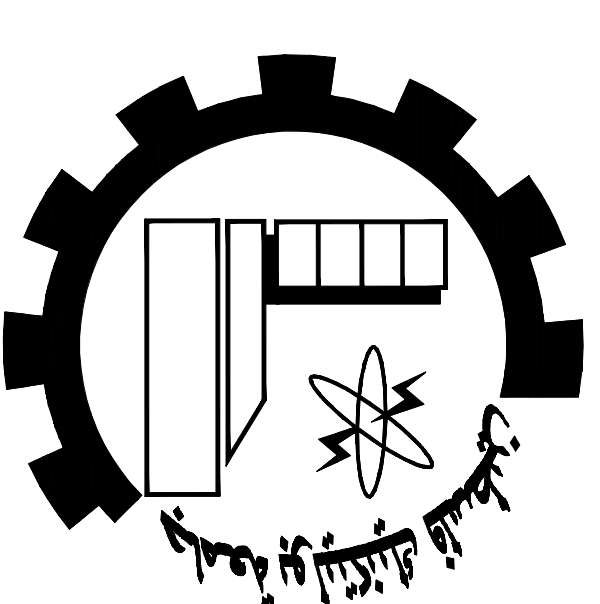
1/50

S116



SW8

SW7



NOTES:

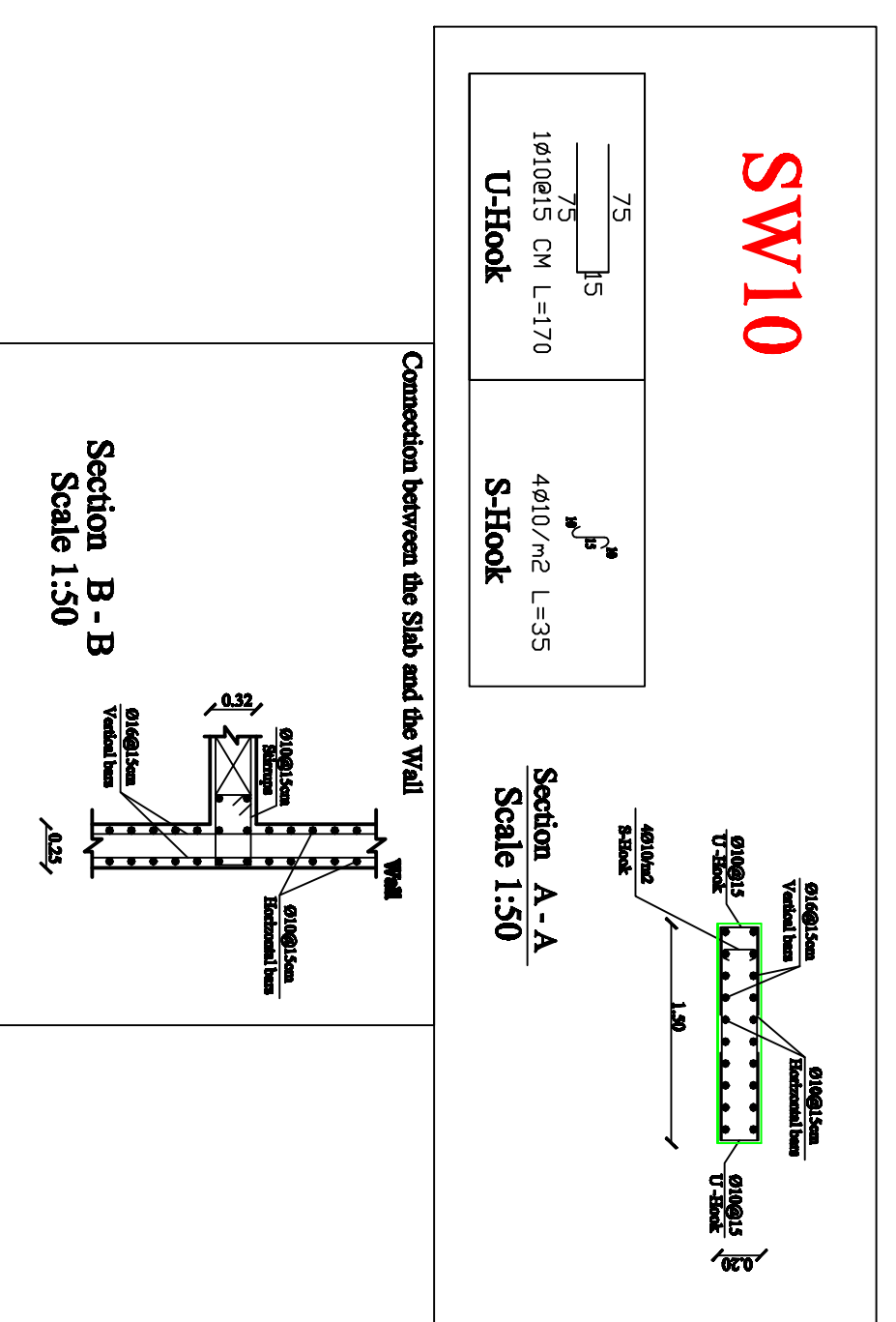
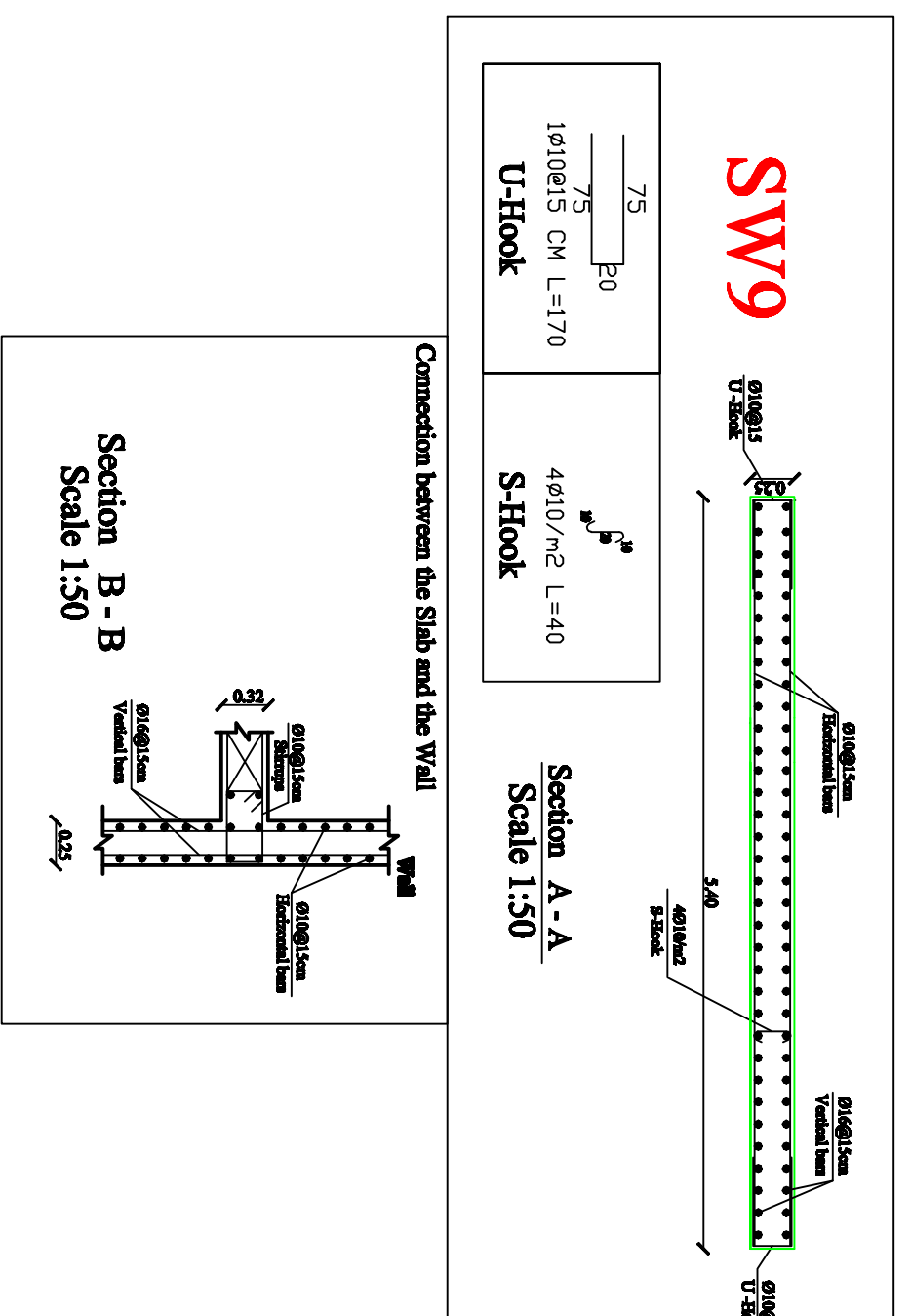
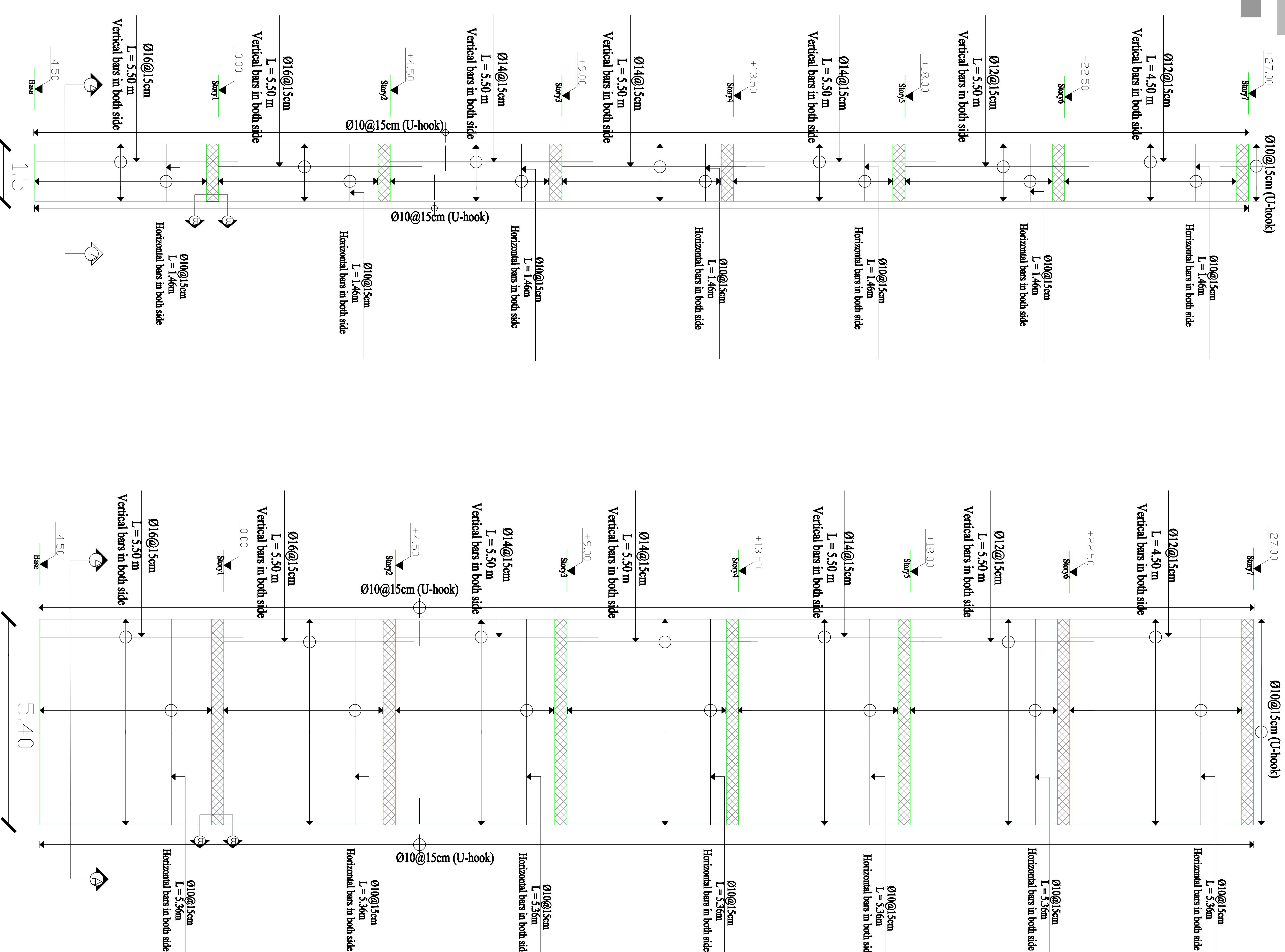
All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering
Designed By:
Israa Rabai
Omar Khamayseh
Issam Hassouna
Abed Al-fatah Jawabreh
Mohammad Abu Zalath
Drawing Title :
Shear Walls Details
Supervisor :
Dr. Mohammad Taha

SCALE:

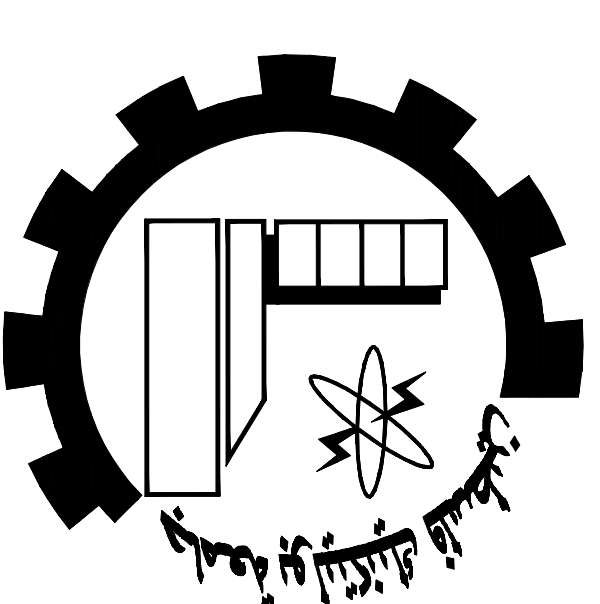
1/50

S177



SW10

SW9



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:
Israa Rabai
Omar Khamayseh
Issam Hassouna

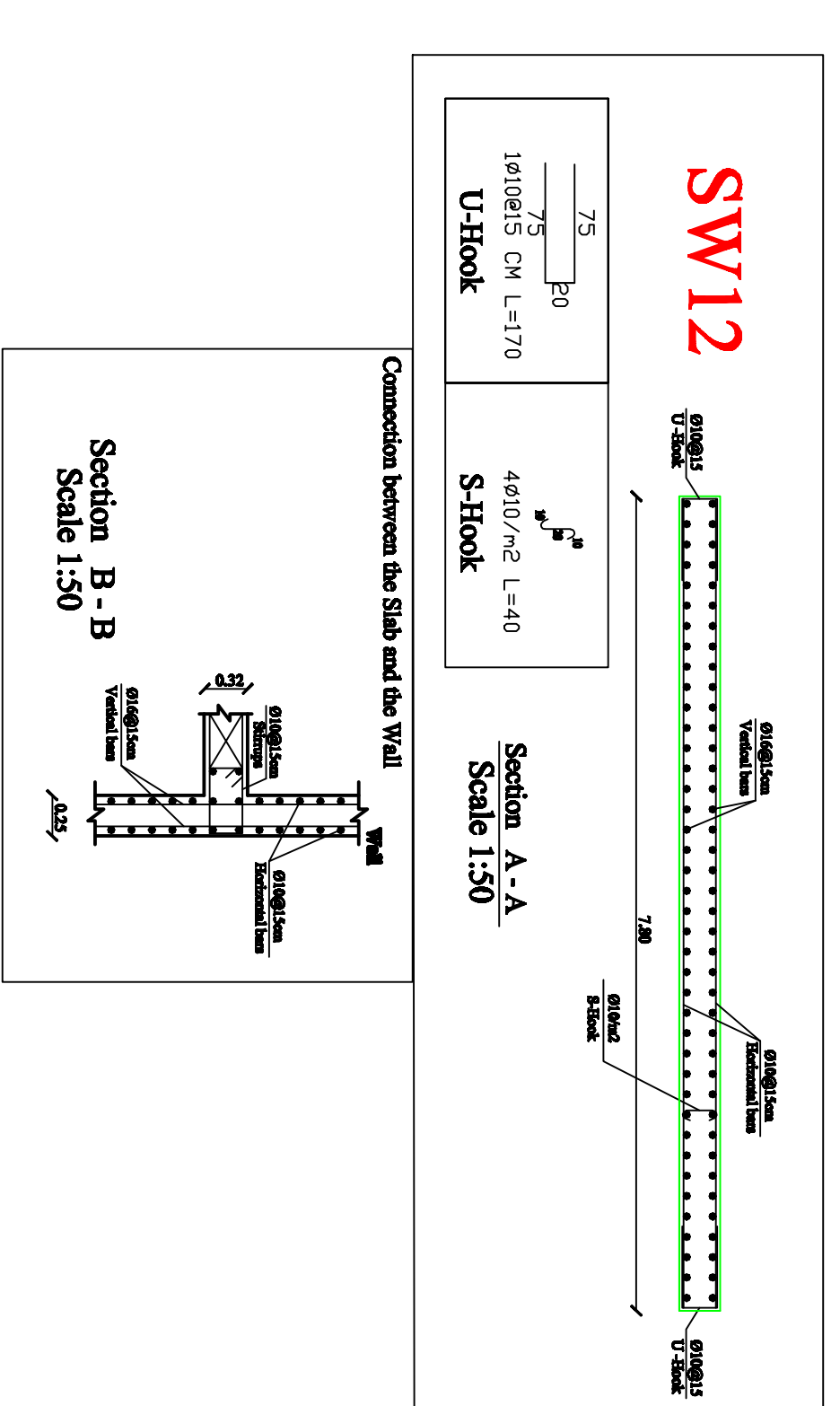
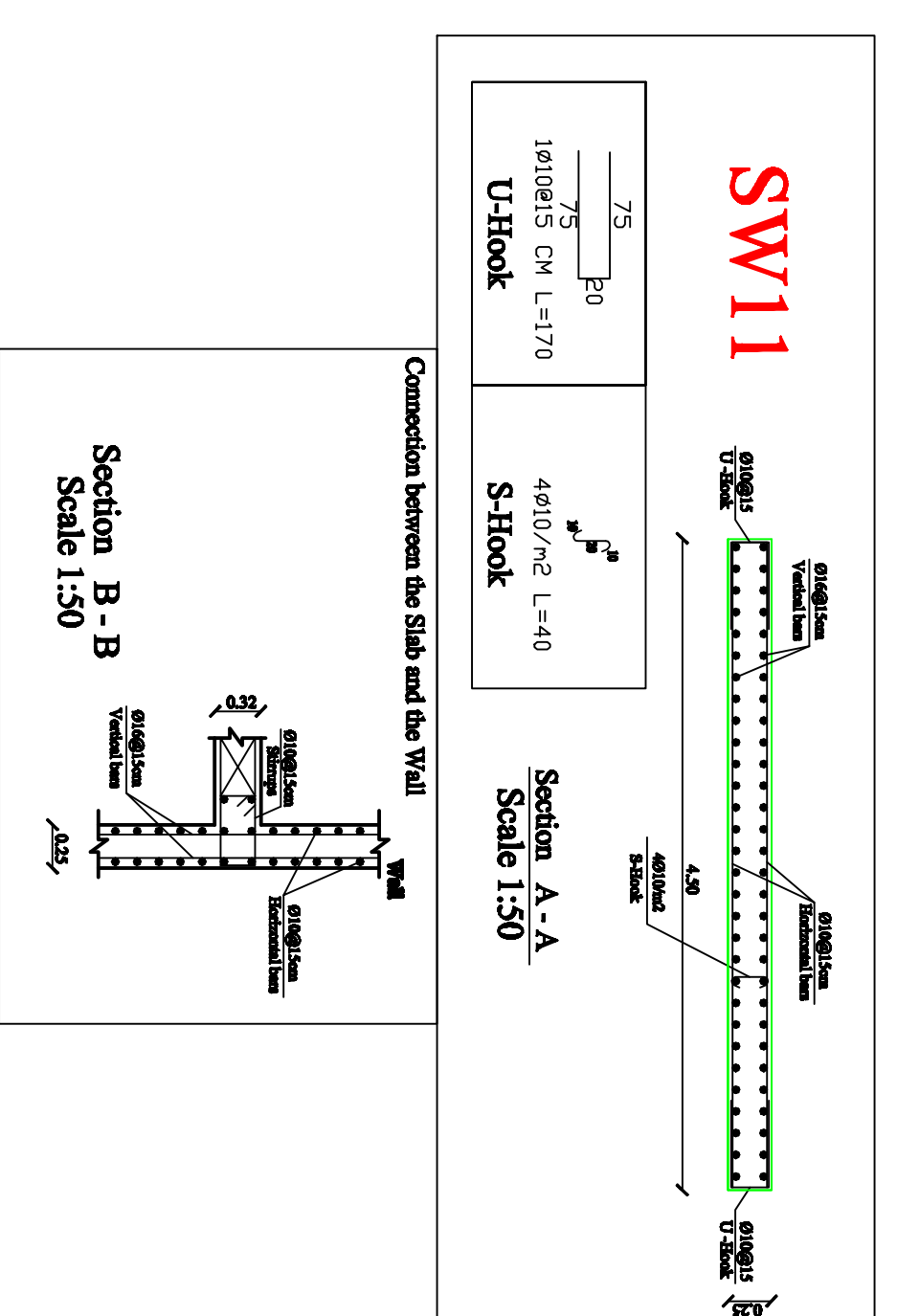
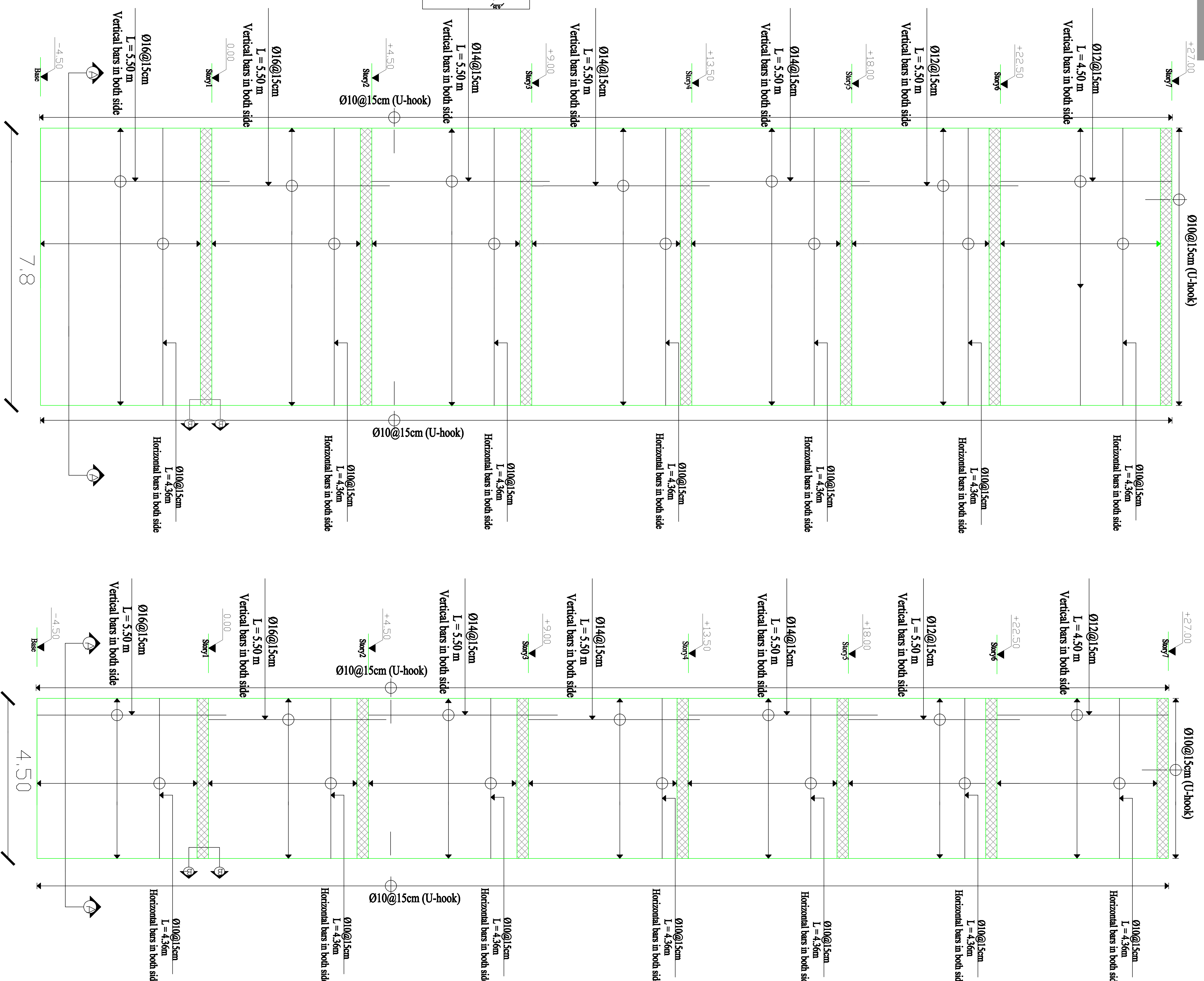
Abded Al-fatah Jawabreh
Mohammad Abu Zalath
Drawing Title :
Shear Walls Details

Supervisor :
Dr. Mohammad Taha

SCALE:

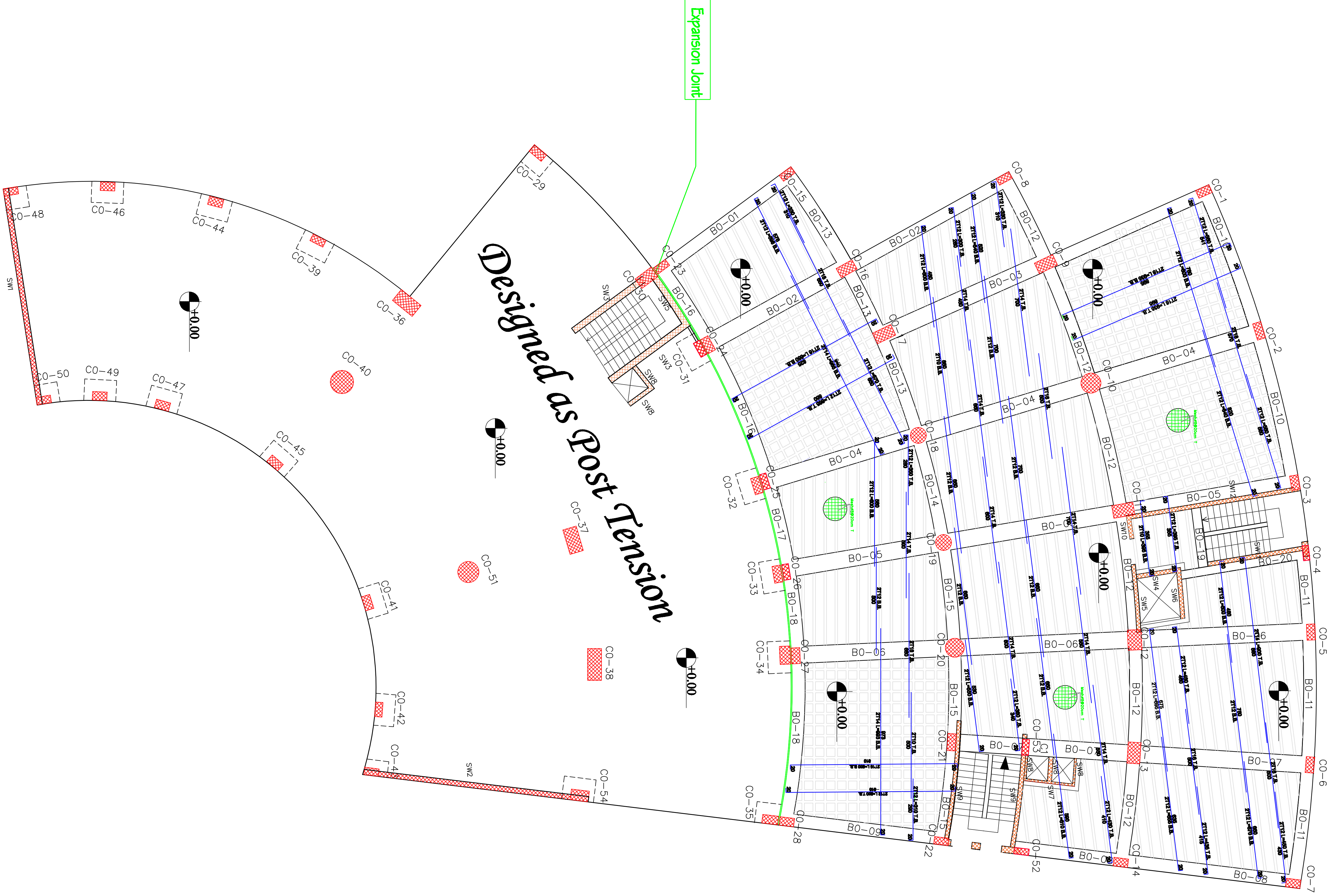
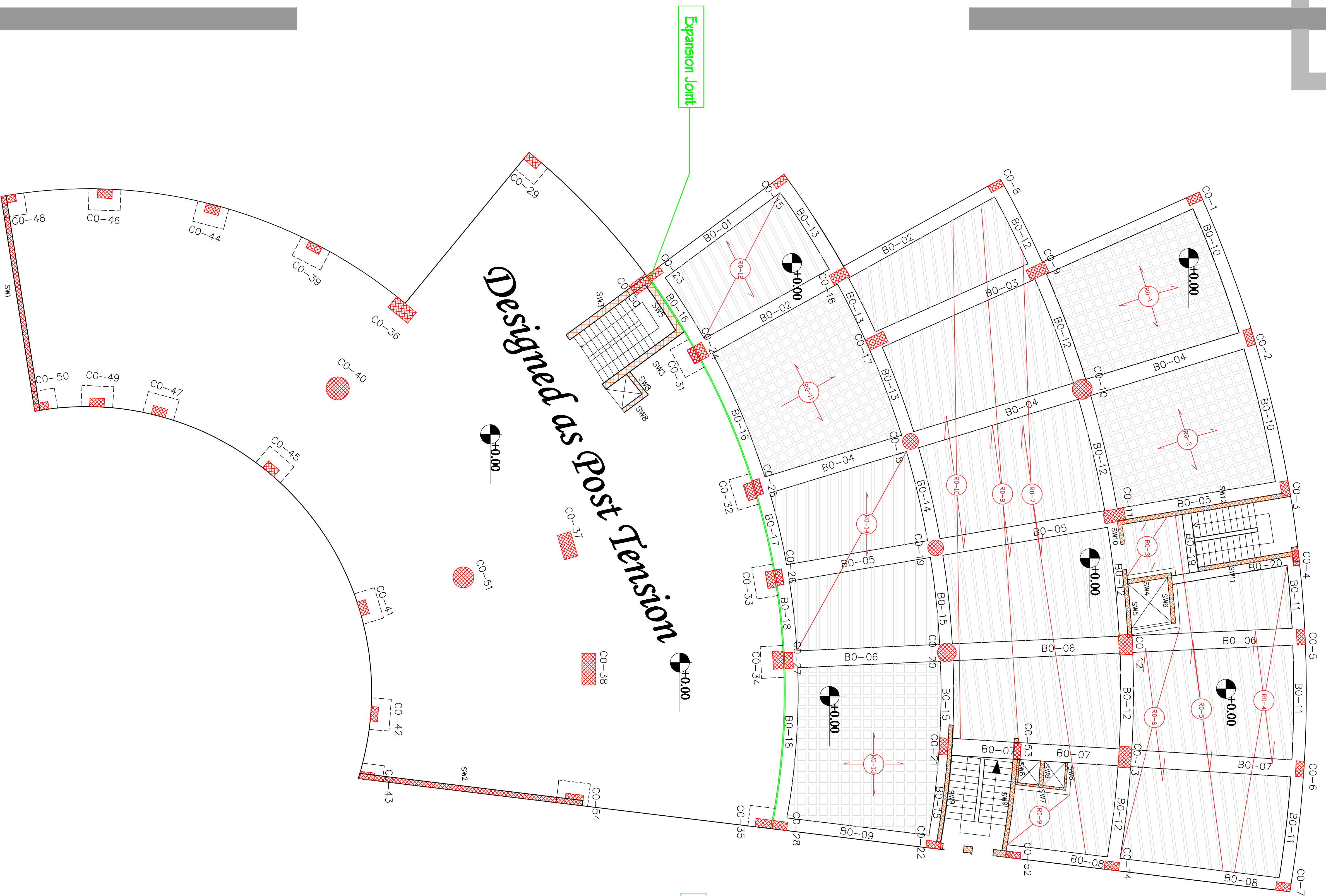
1/50

S18

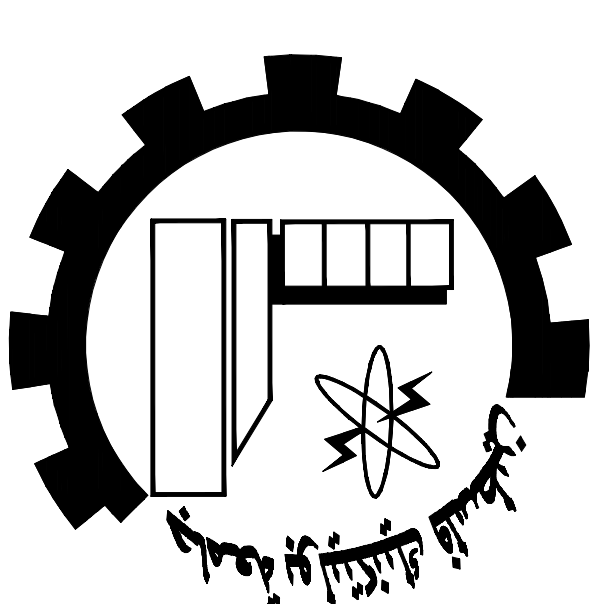


SW12

SW11



GENERAL NOTES



NOTES:

All Dimensions are in Meters.
 Unless otherwise shown.
 All Spot Levels are in Meters.

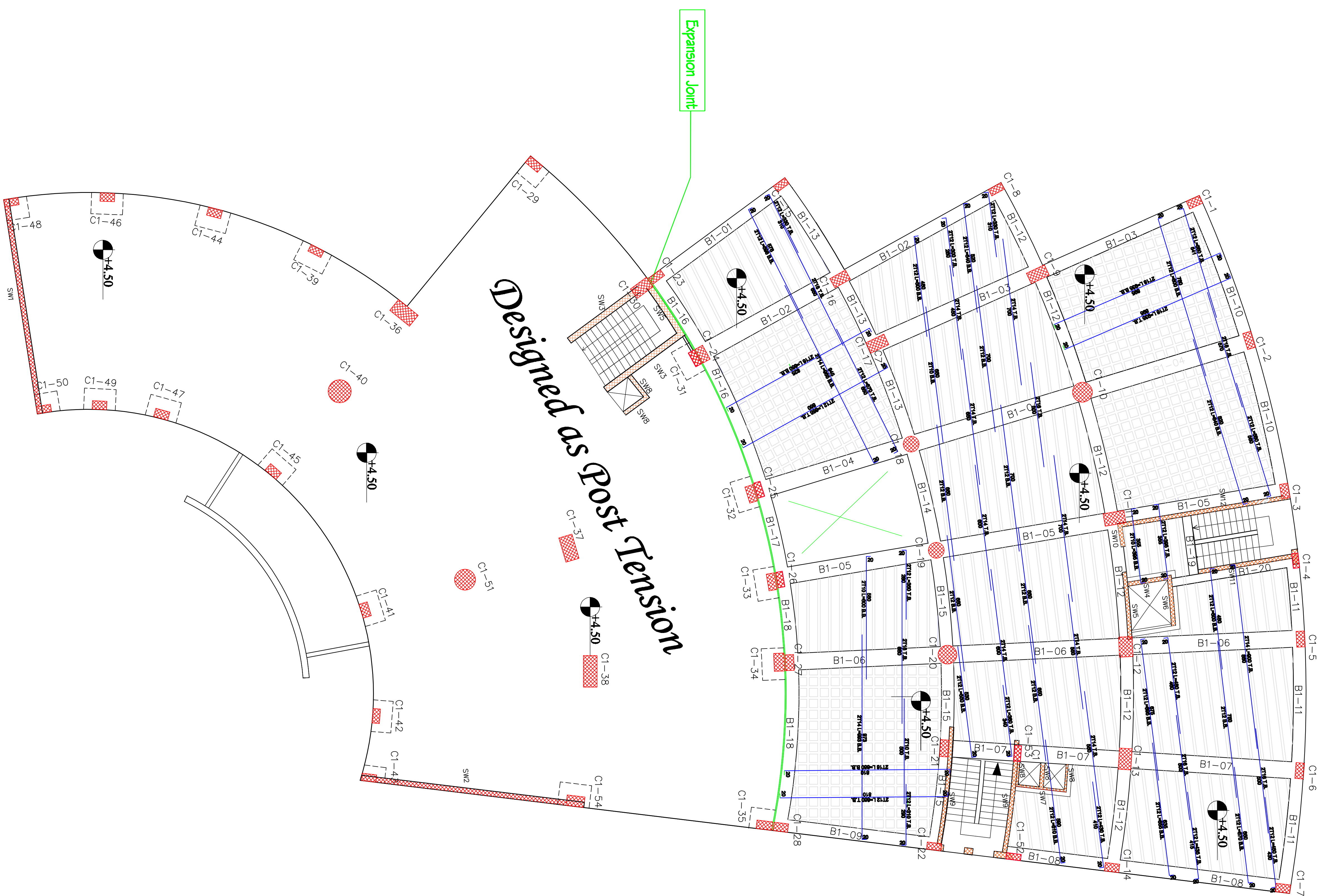
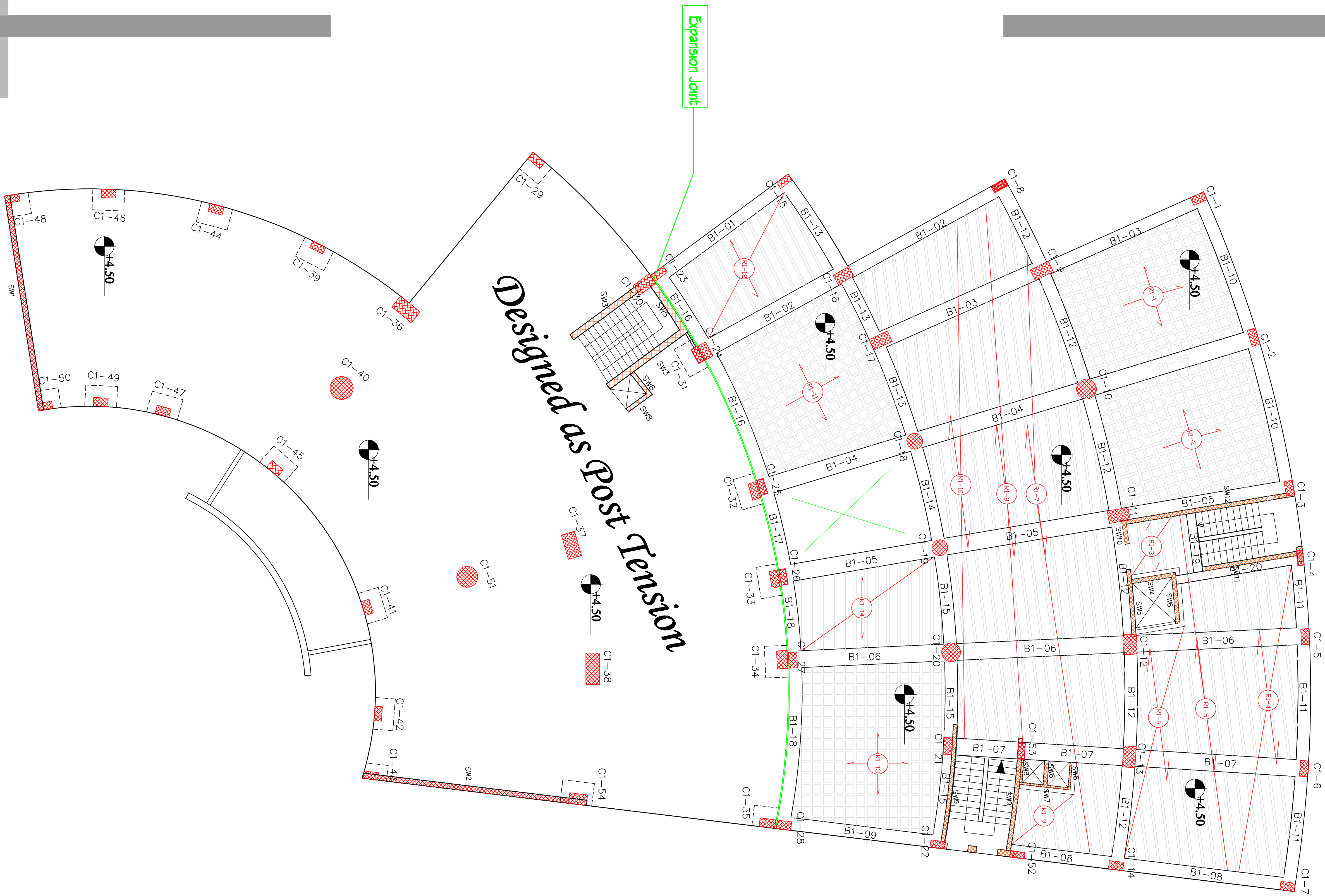
Palestine Polytechnic University
 Civil, Arch. Eng. Department
Building Engineering

Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatah Jawabreh
 Mohammad Abu Zalath

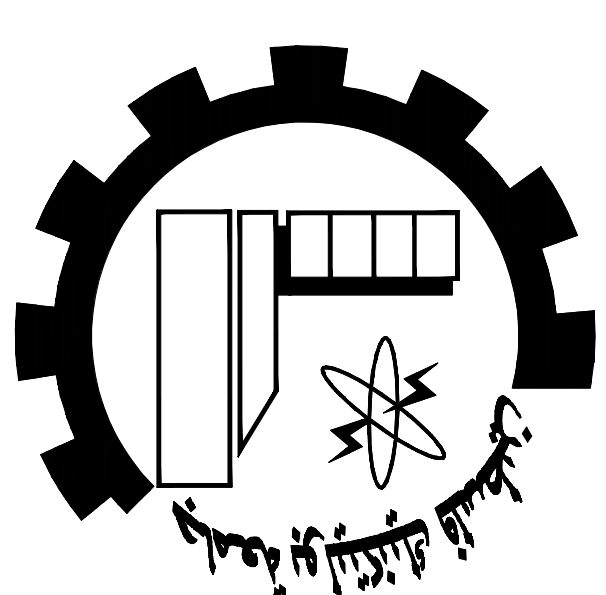
Drawing Title :
 Basement Floor Slab

Supervisor :
 Dr. Mohammad Taha

SCALE:
 1/100 **S19**



GENERAL NOTES

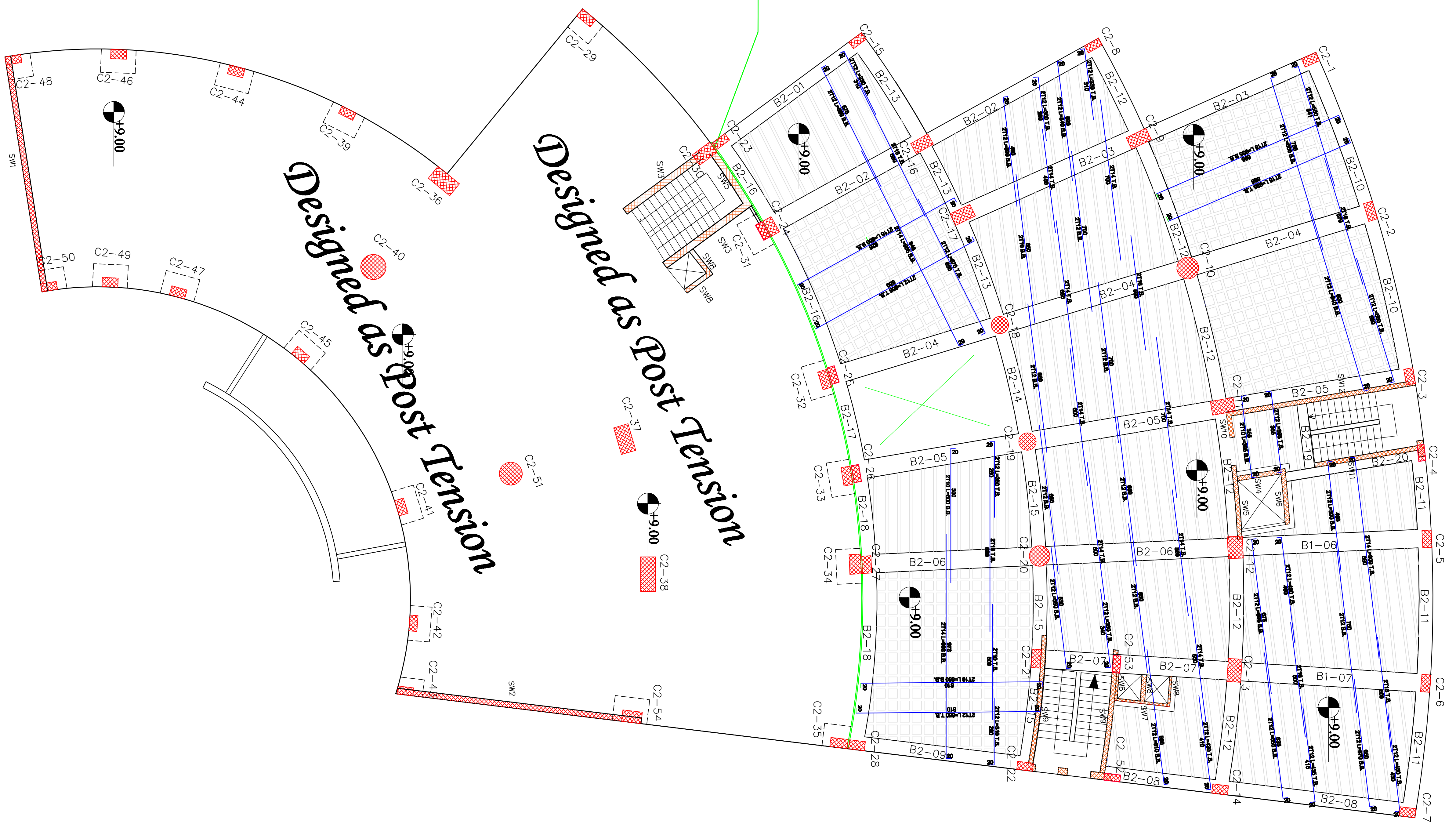
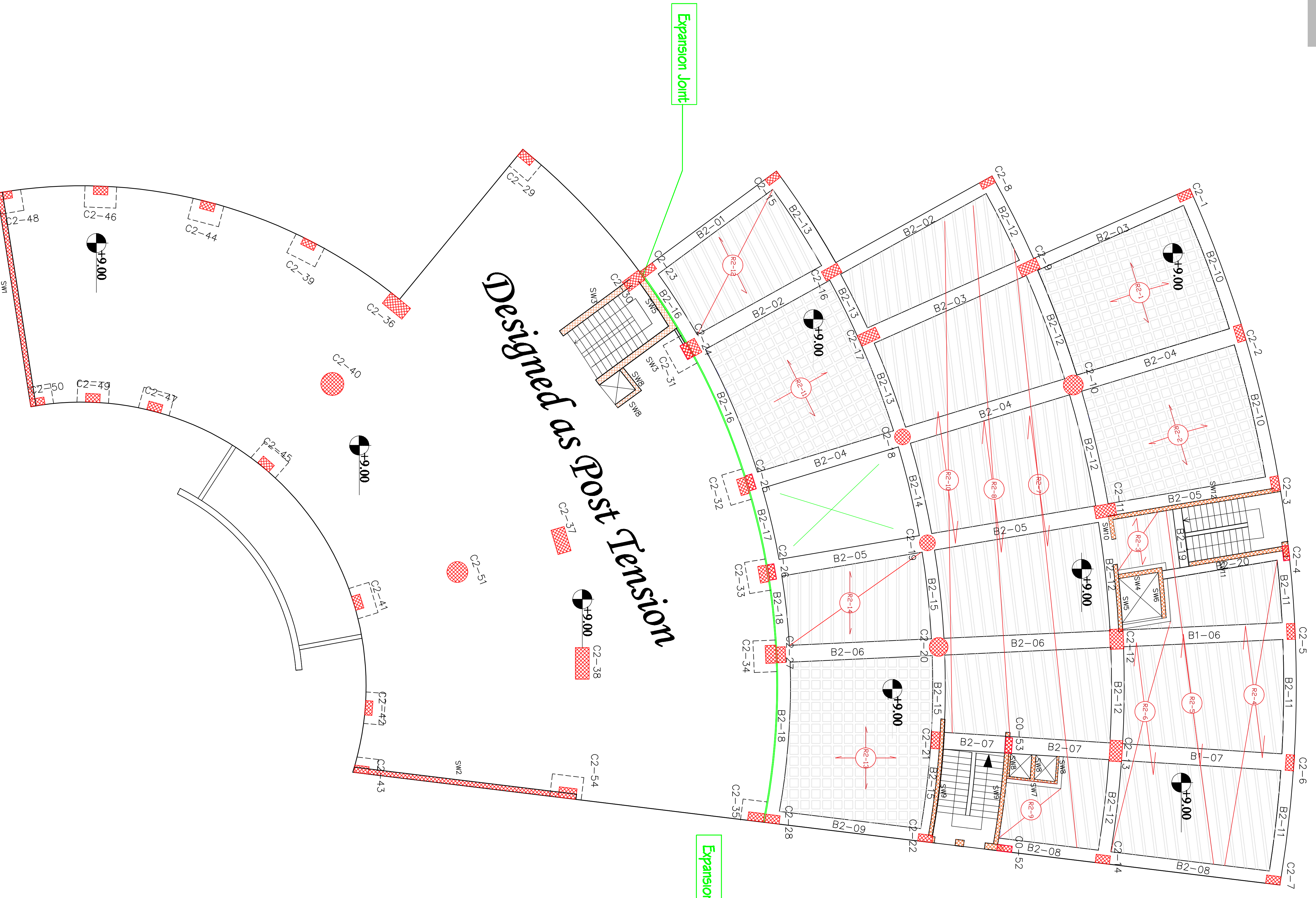


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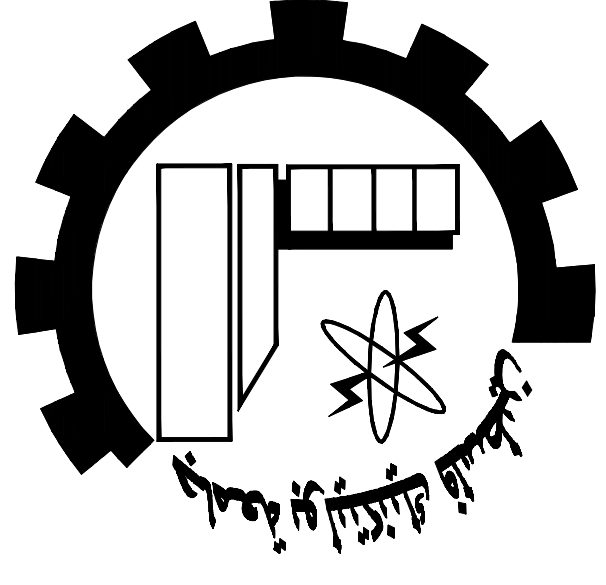
All Dimensions are in Meters.
 Unless otherwise shown.
 All Spot Levels are in Meters.

Palestine Polytechnic University
 Civil. Arch. Eng. Department
Building Engineering
Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatrah Jawabreh
 Mohammad Abu Zalah
Drawing Title :
 Ground Floor Slab
Supervisor :
 Dr. Mohammad Taha

SCALE:
 1/100 **S20**



GENERAL NOTES

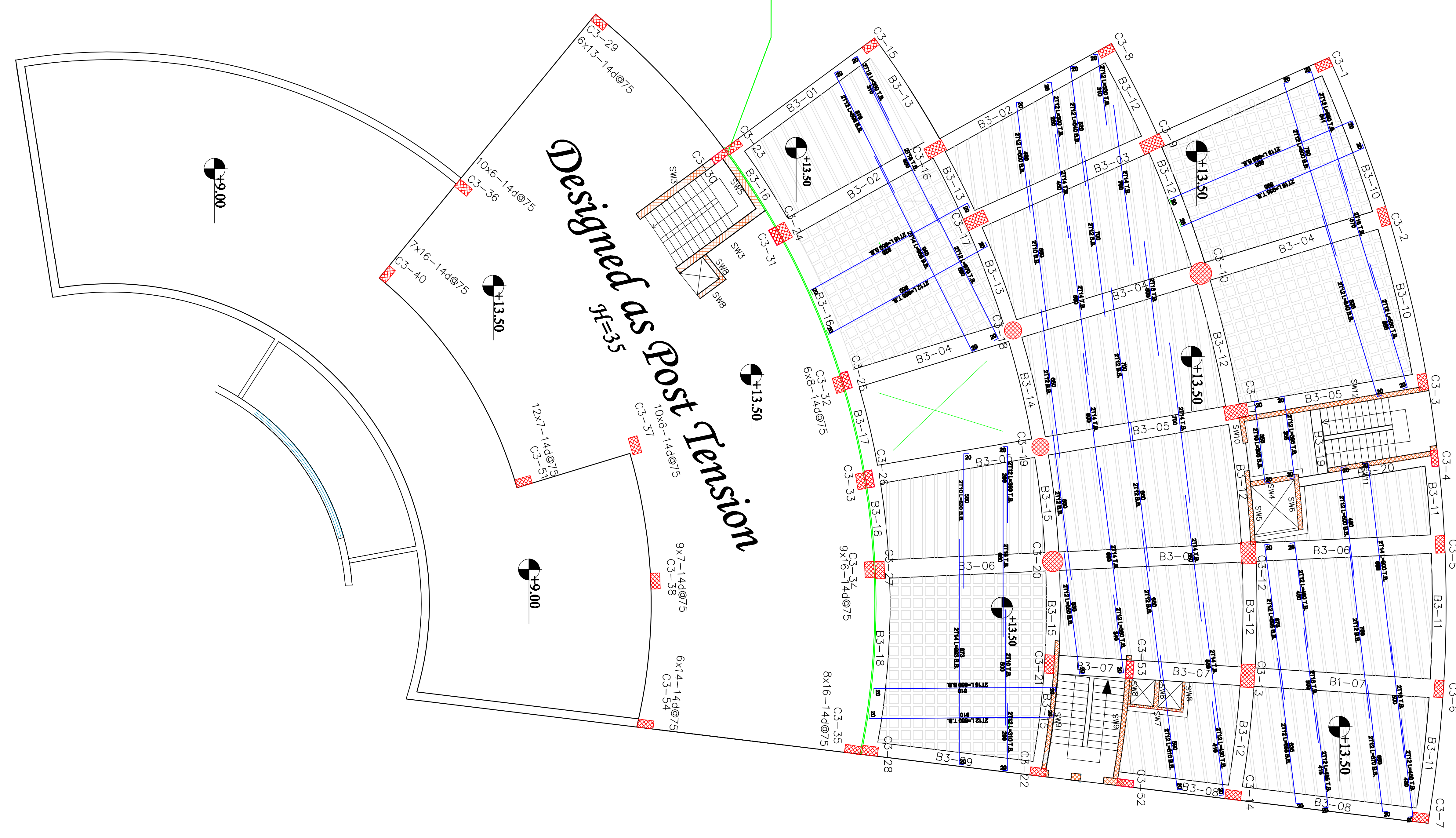
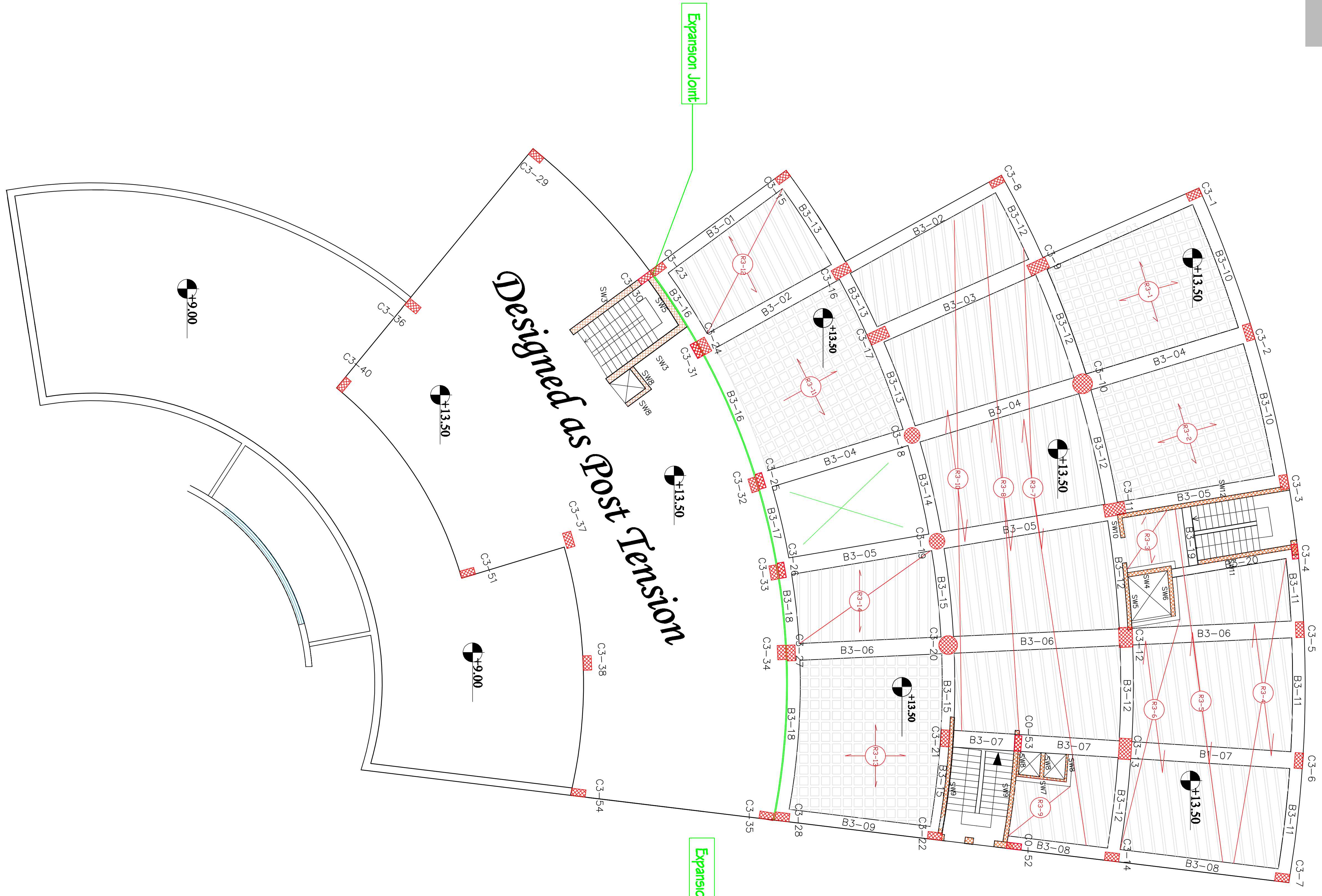


NOTES:

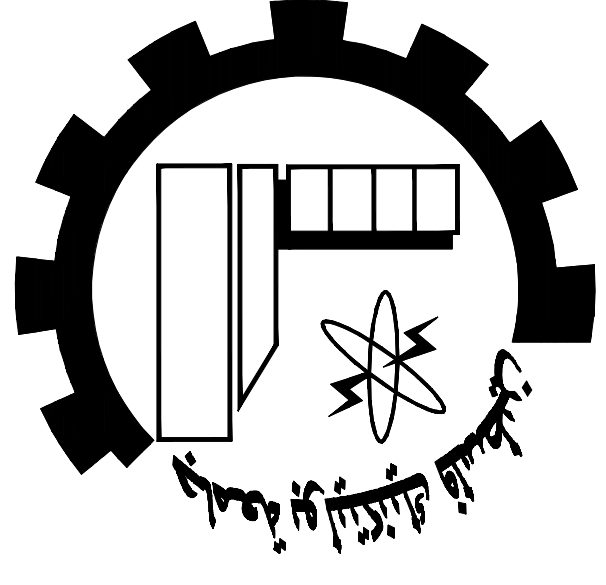
All Dimensions are in Meters.
 Unless otherwise shown.
 All Spot Levels are in Meters.

Palestine Polytechnic University
 Civil, Arch. Eng. Department
Building Engineering
Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatah Jawabreh
 Mohammad Abu Zalath
Drawing Title :
First Floor Slab
Supervisor :
 Dr. Mohammad Taha

SCALE:
 1/100 **S21**



GENERAL NOTES

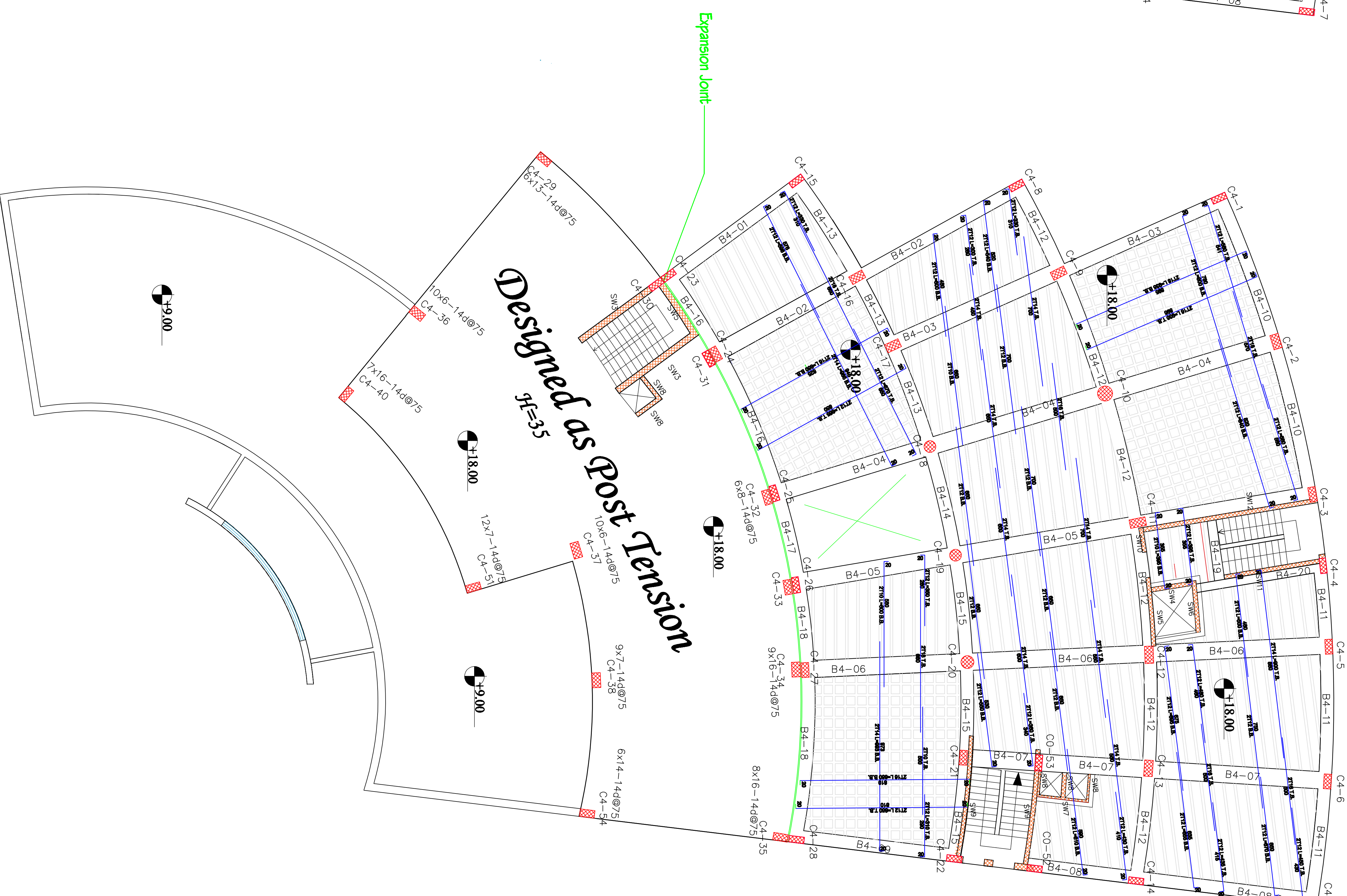


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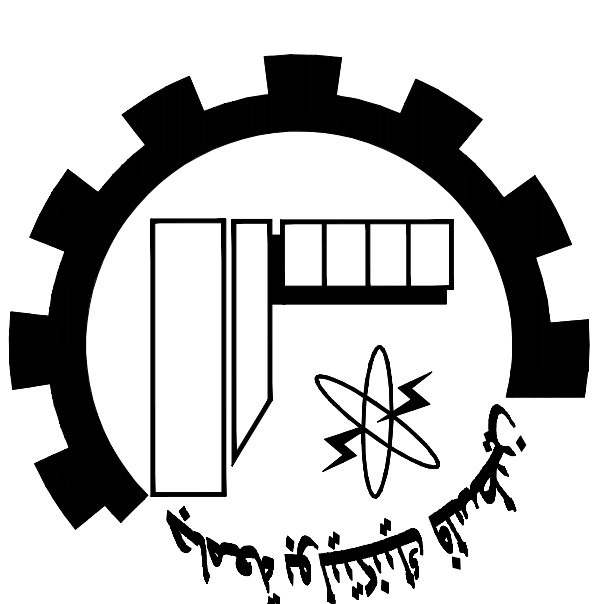
All Dimensions are in Meters.
 Unless otherwise shown.
 All Spot Levels are in Meters.

Palestine Polytechnic University
 Civil, Arch. Eng. Department
 Building Engineering
 Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatah Jawabreh
 Mohammad Abu Zalah
 Drawing Title :
 Second Floor Slab
 Supervisor :
 Dr. Mohammad Taha

SCALE:
 1/100 **\$22**



GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalah

Drawing Title :

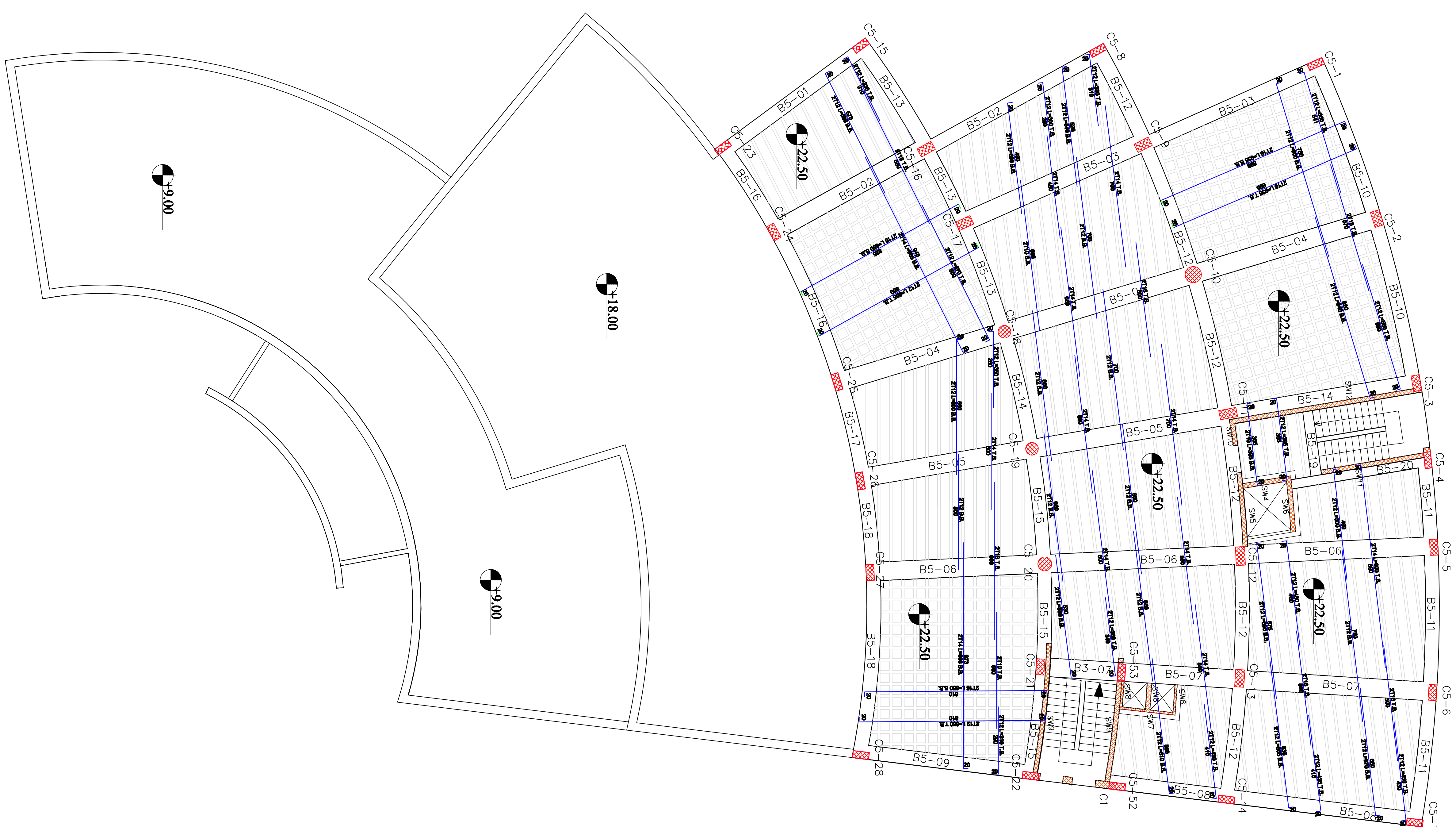
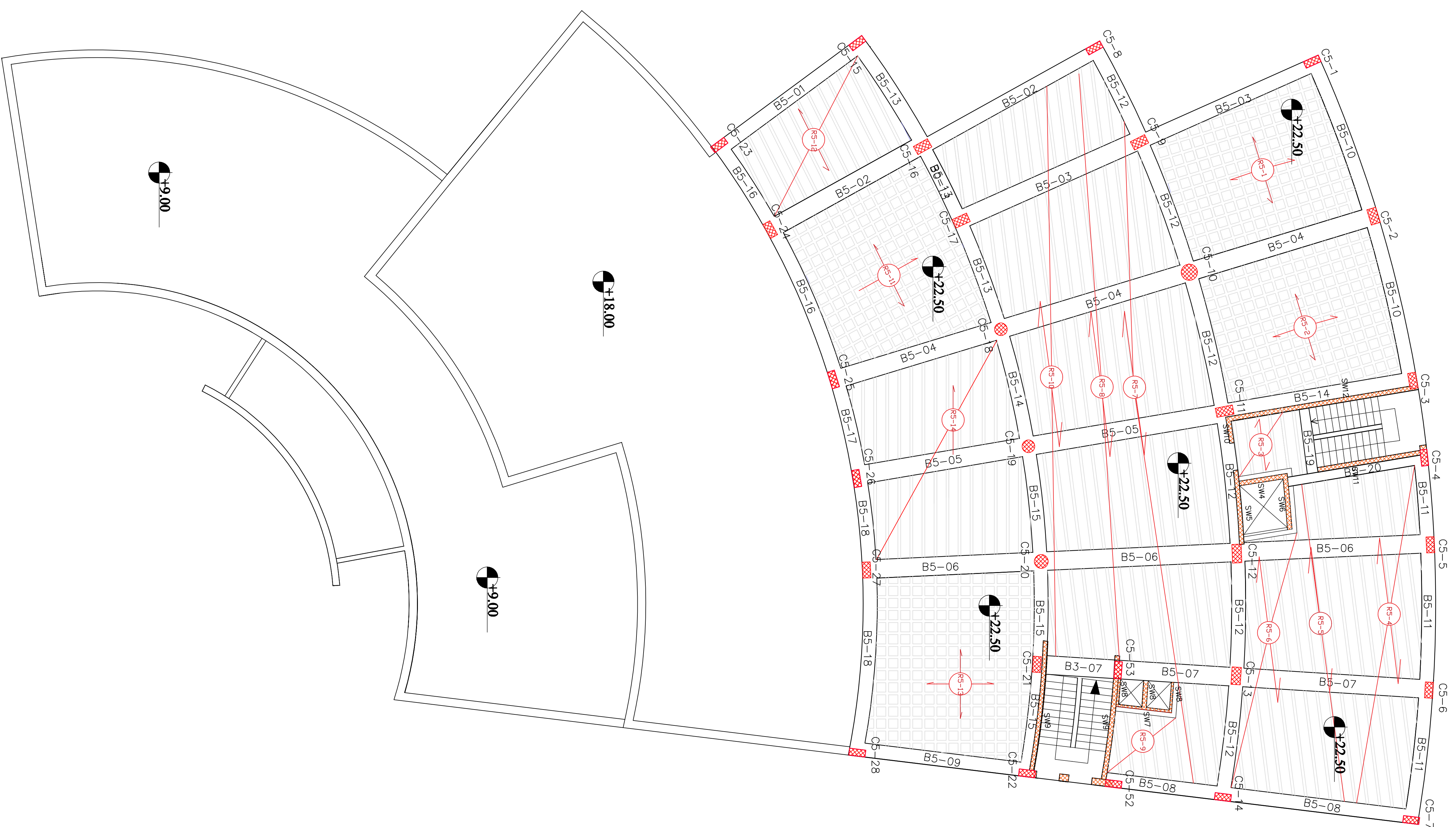
Third Floor Slab

Supervisor :

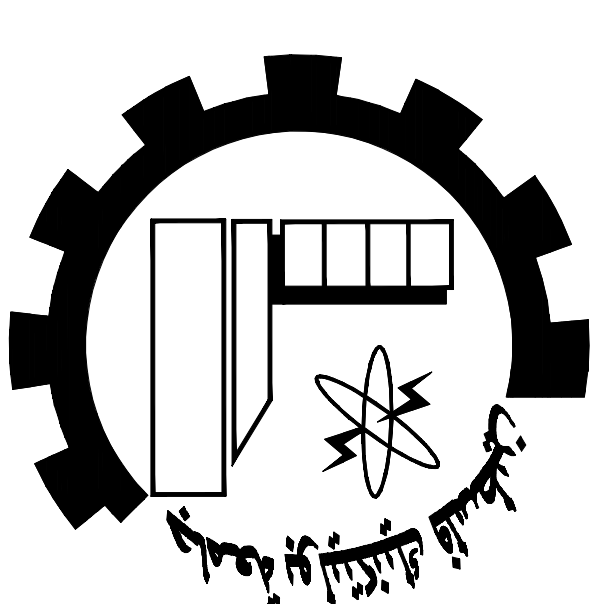
Dr. Mohammad Taha

SCALE:

1/100 **S23**



GENERAL NOTES



NOTES:

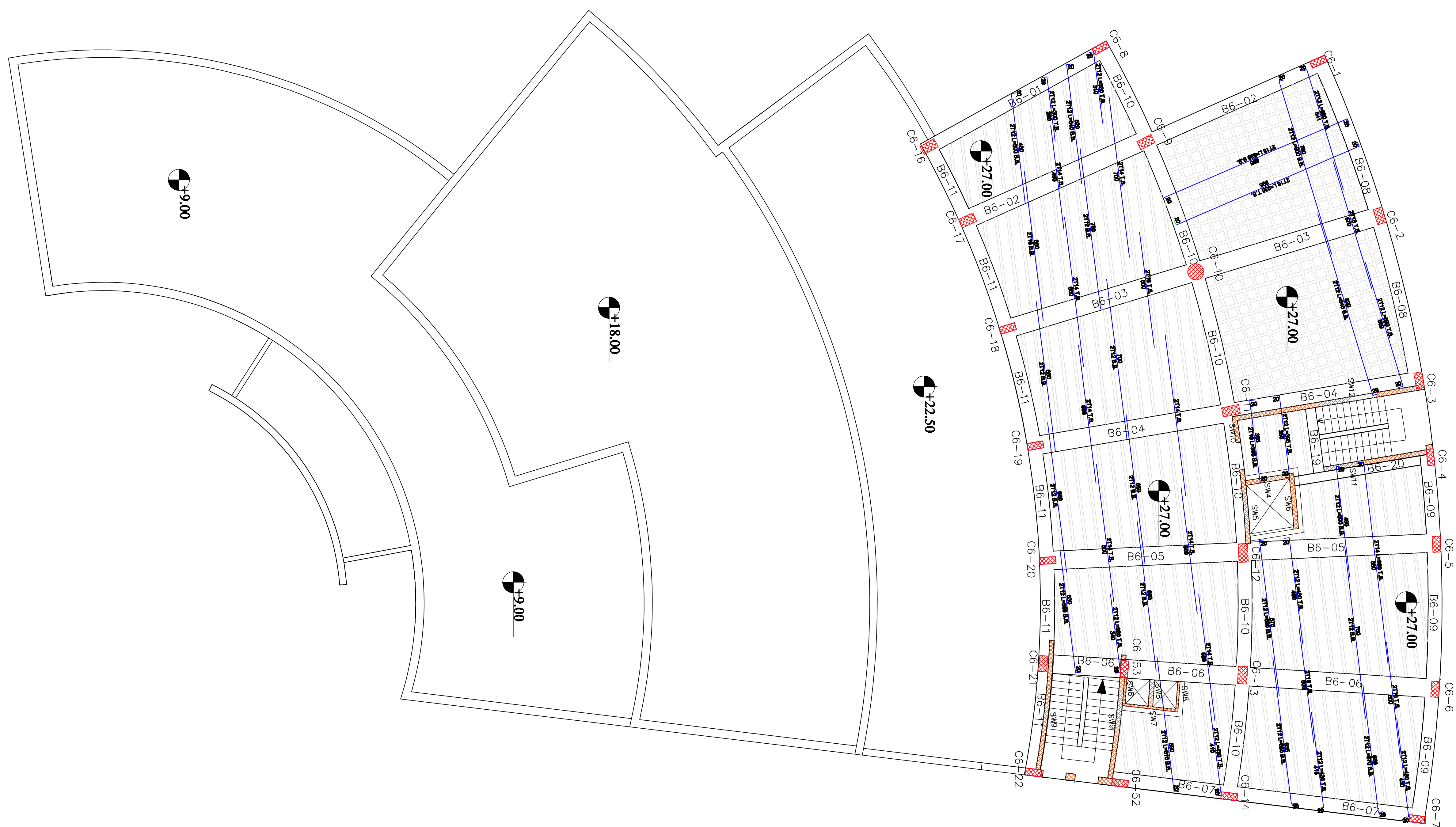
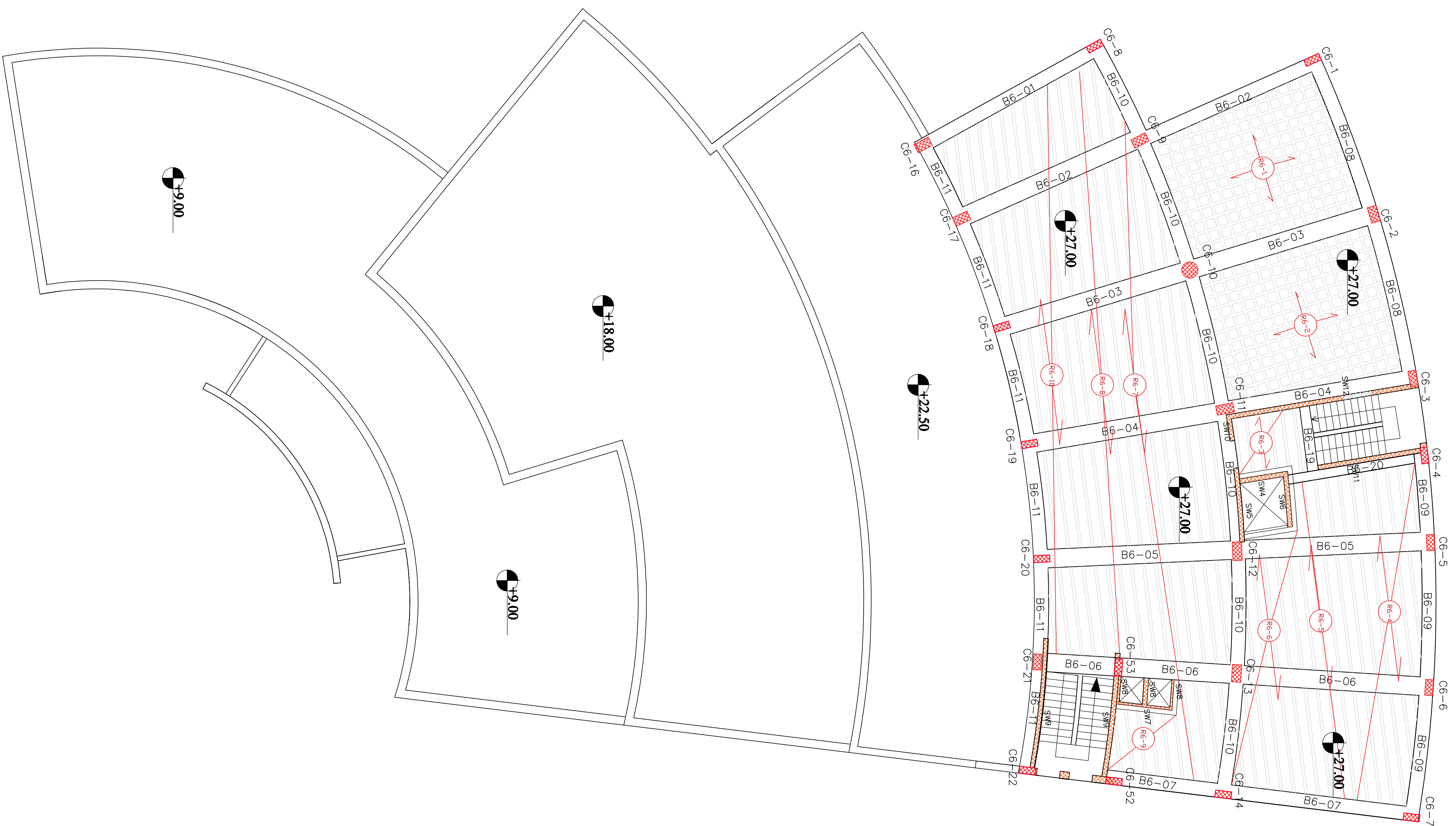
All Dimensions are in Meters.
 Unless otherwise shown.
 All Spot Levels are in Meters.

Palestine Polytechnic University
 Civil, Arch. Eng. Department
Building Engineering
Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatrah Jawabreh
 Mohammad Abu Zalahh
Drawing Title :
Fourth Floor Slab
Supervisor :
 Dr. Mohammad Taha

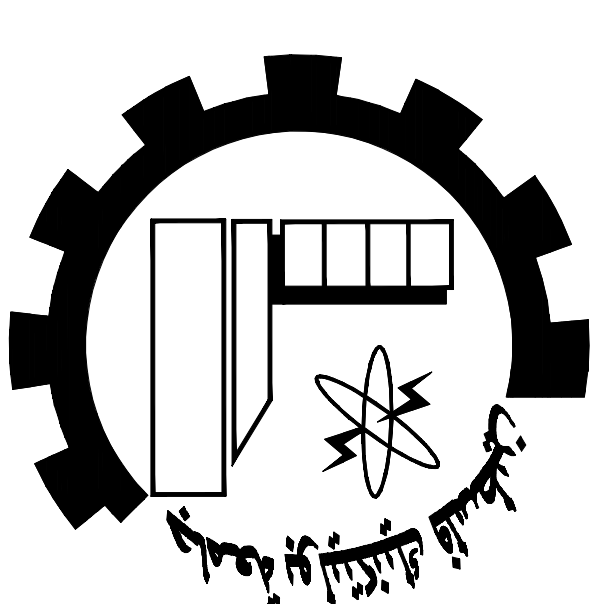
SCALE:

1/100

S24



GENERAL NOTES



NOTES:

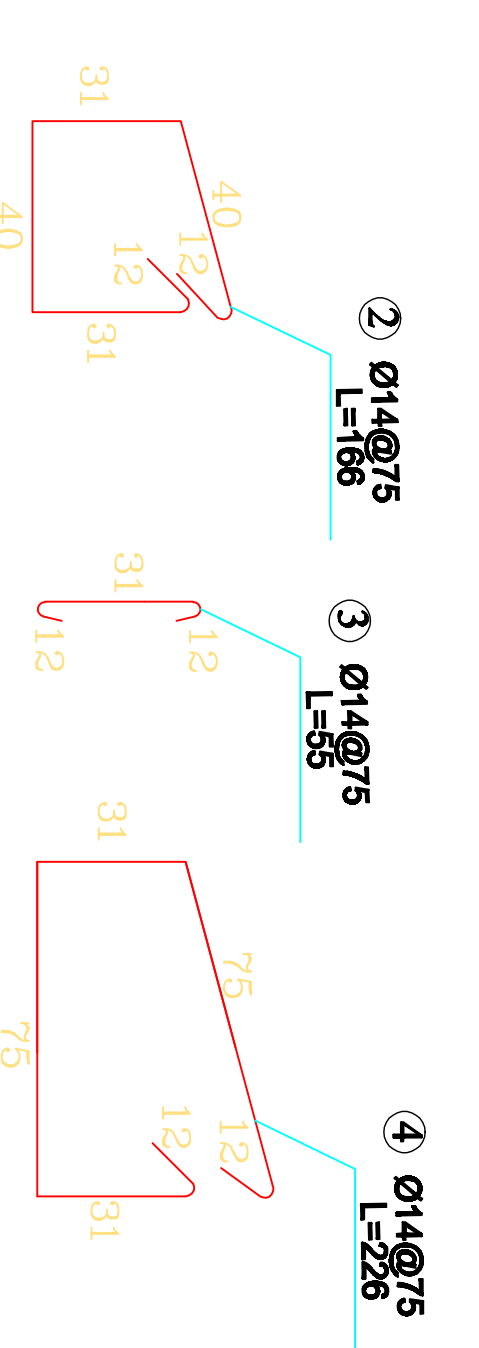
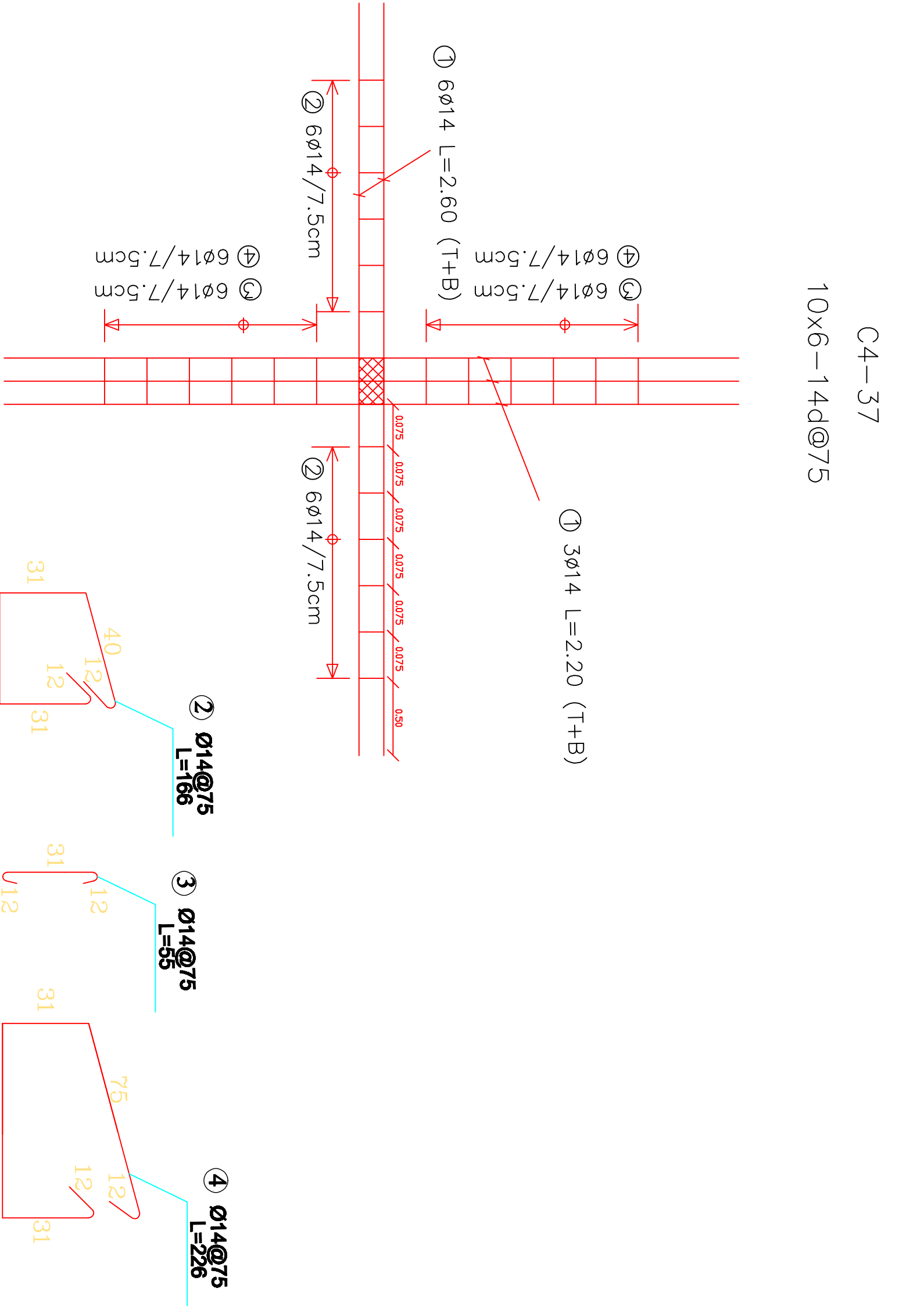
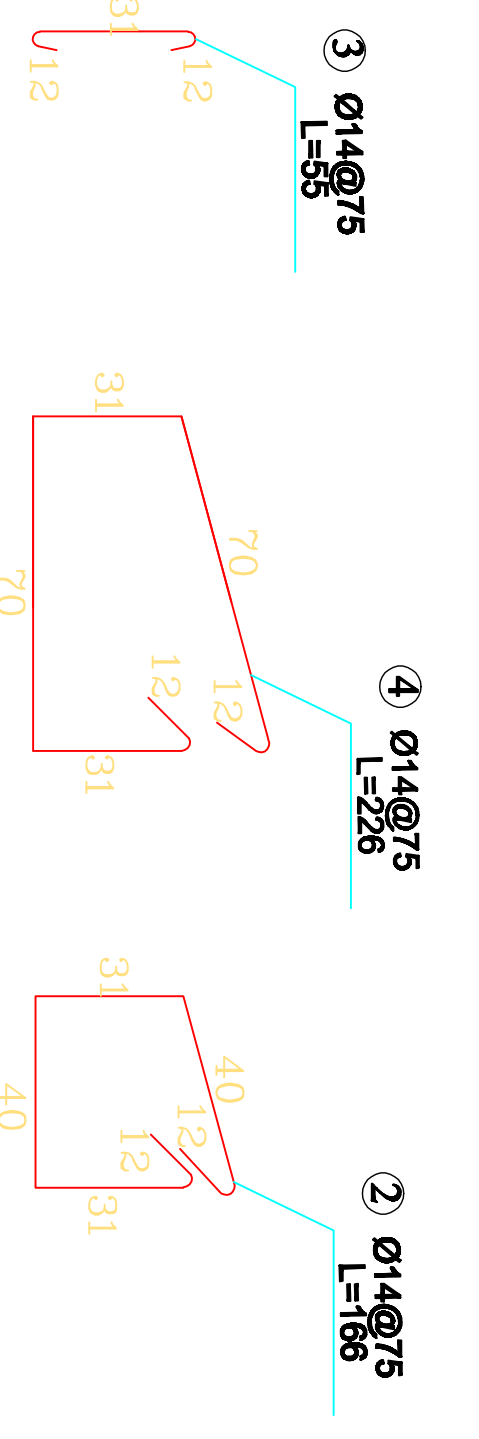
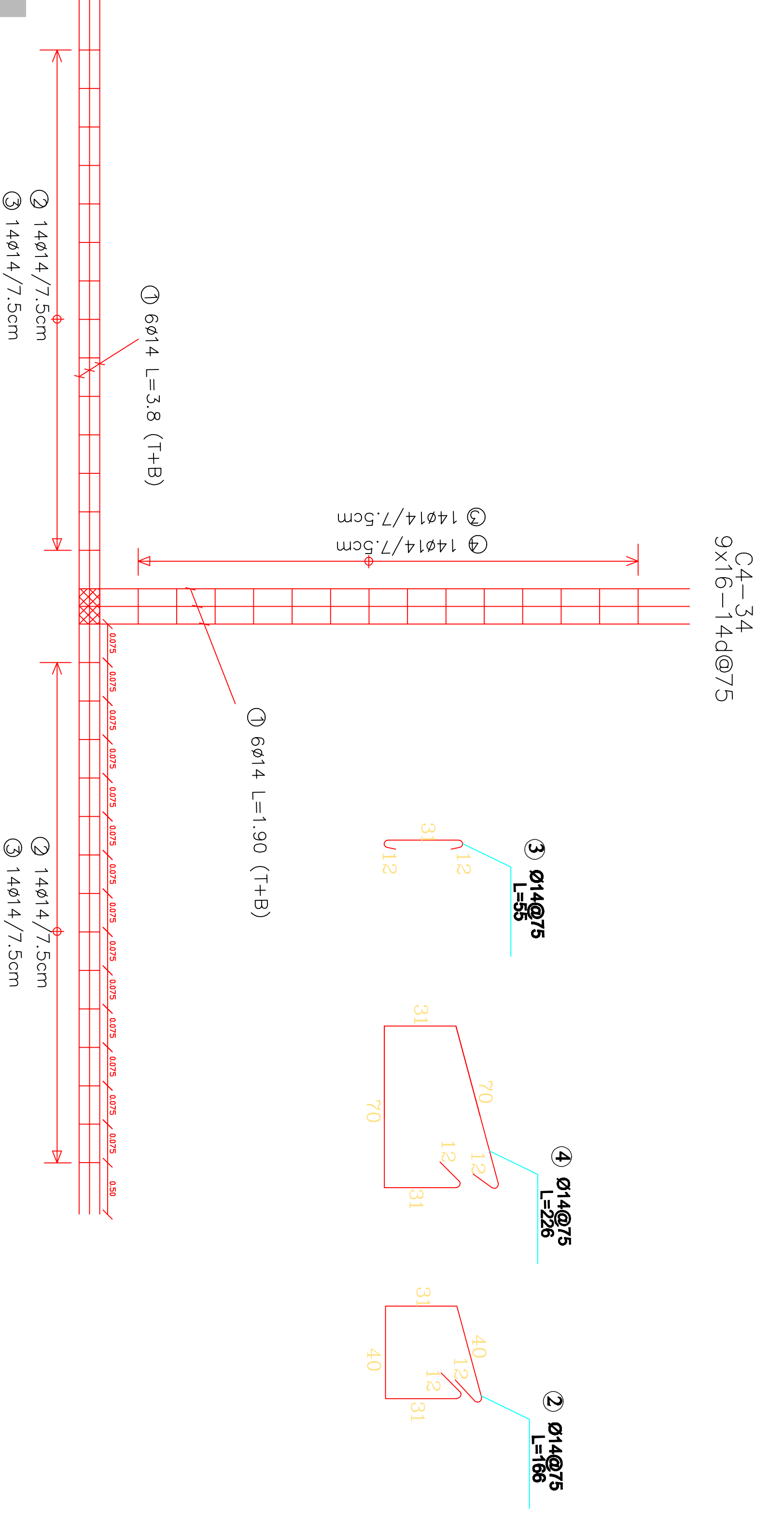
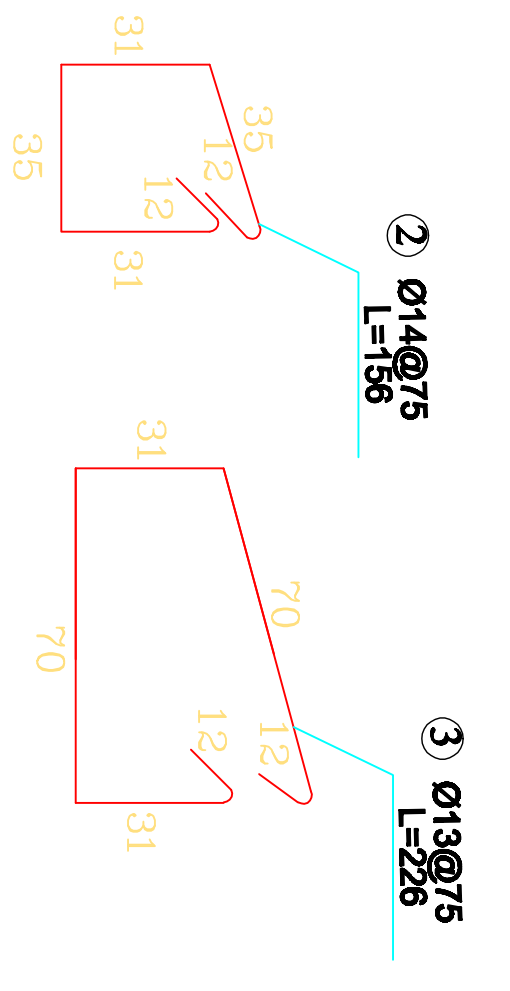
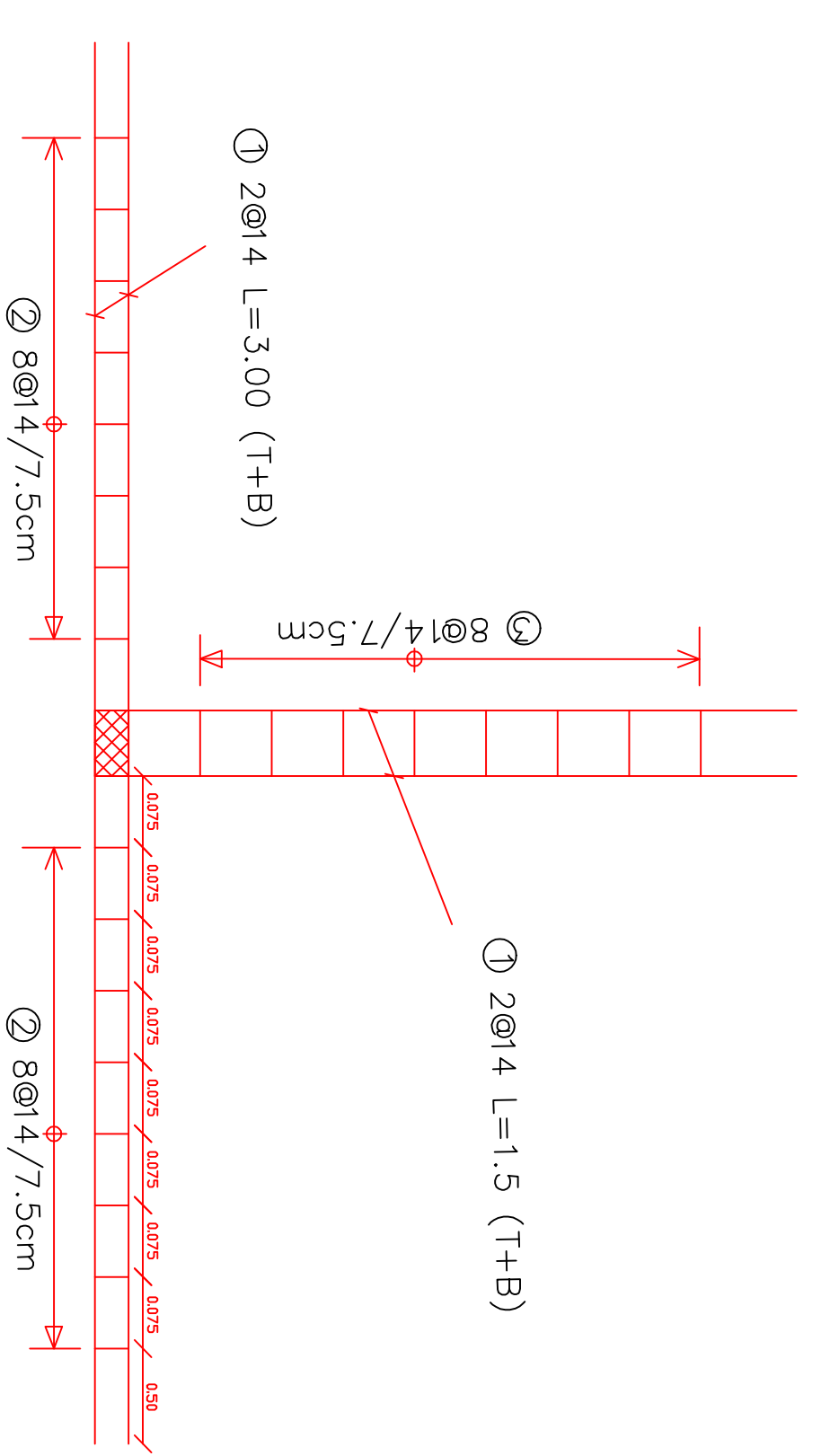
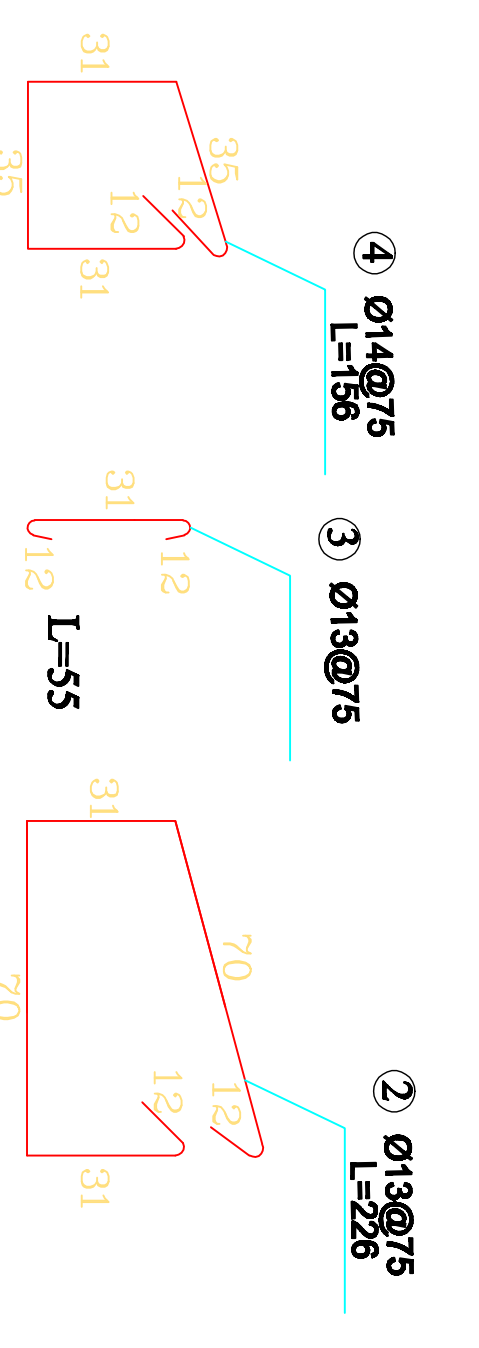
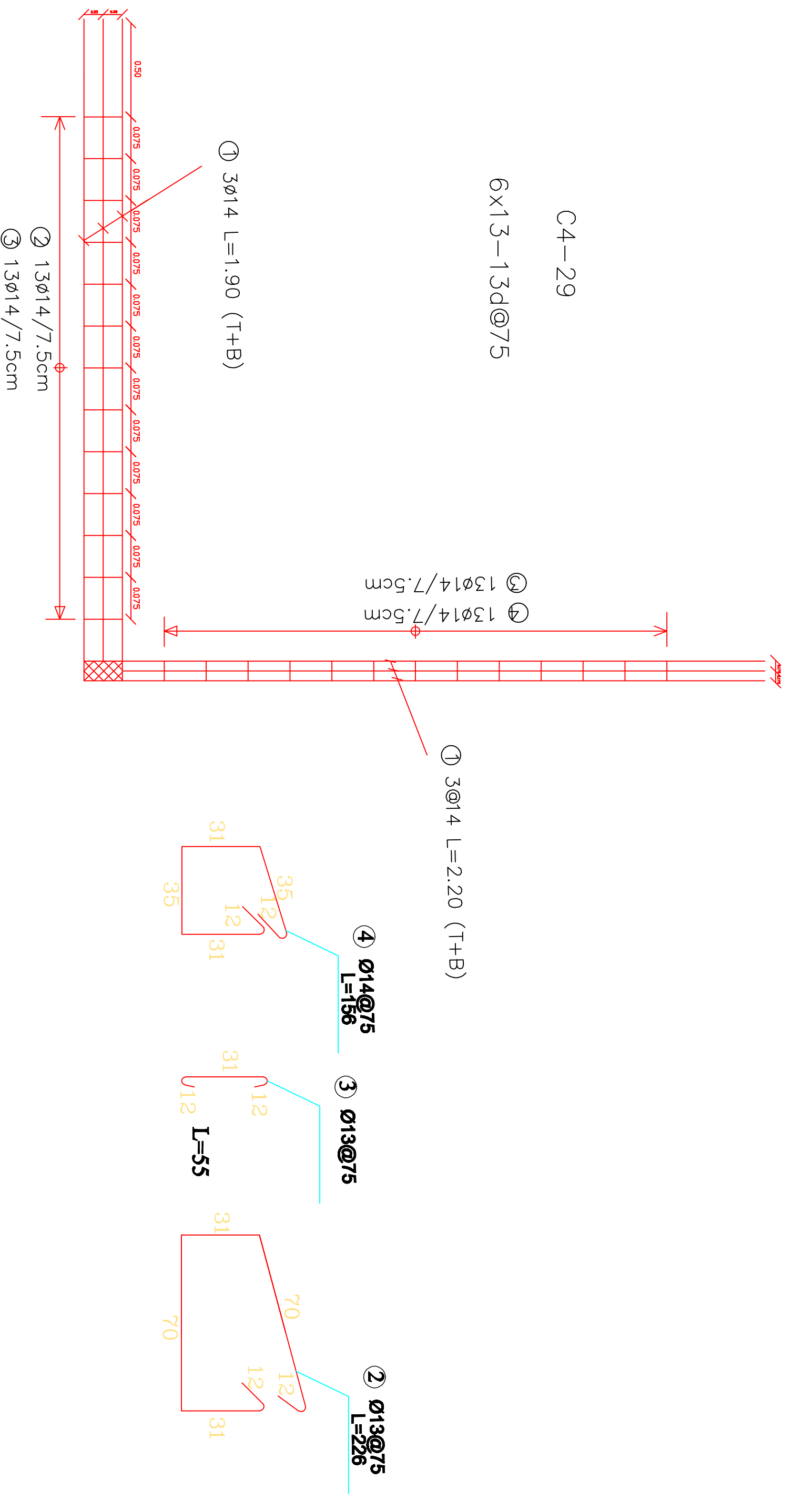
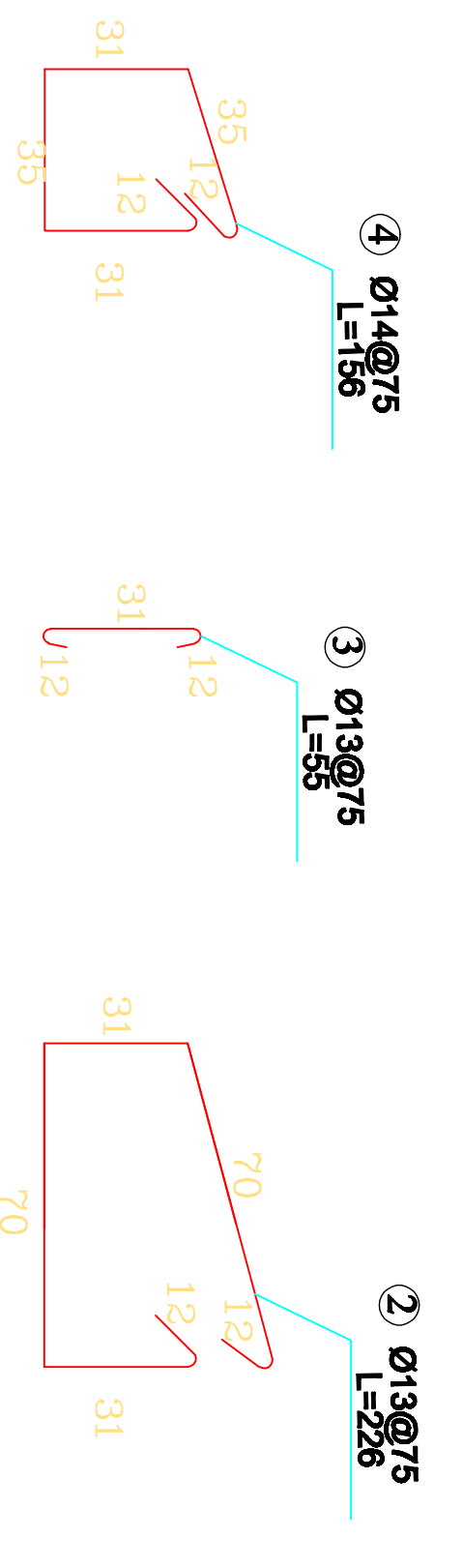
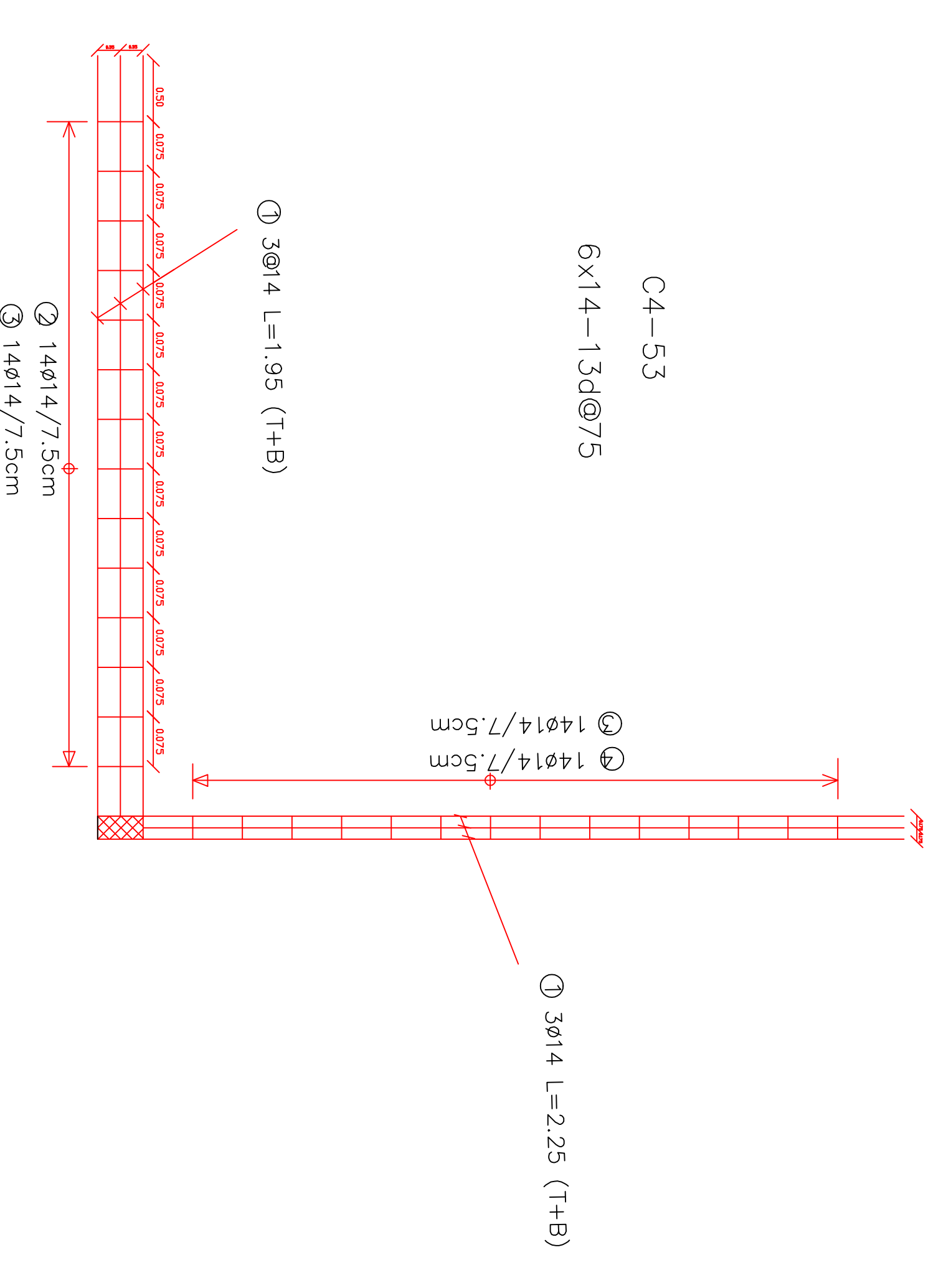
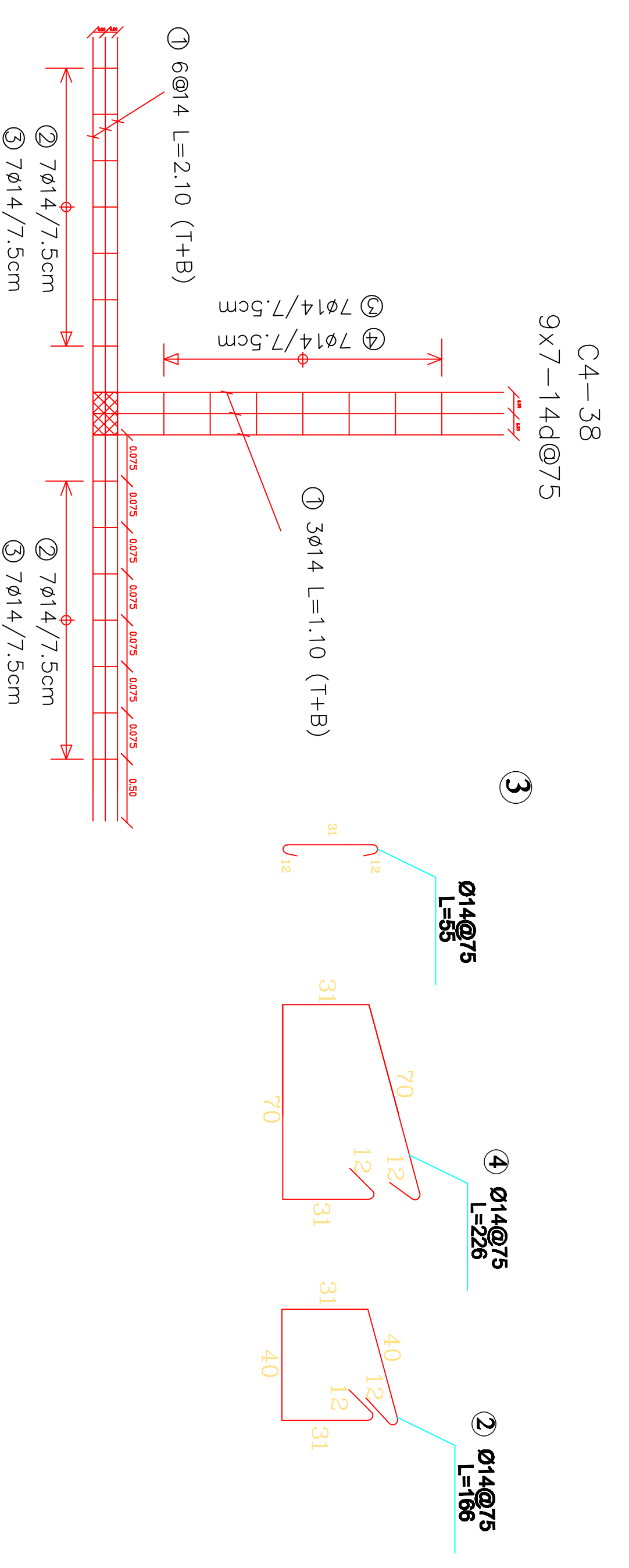
All Dimensions are in Meters.
 Unless otherwise shown.
 All Spot Levels are in Meters.

Palestine Polytechnic University
 Civil, Arch. Eng. Department
Building Engineering
Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatrah Jawabreh
 Mohammad Abu Zalah
Drawing Title :
 Fifth Floor Slab
Supervisor :
 Dr. Mohammad Taha

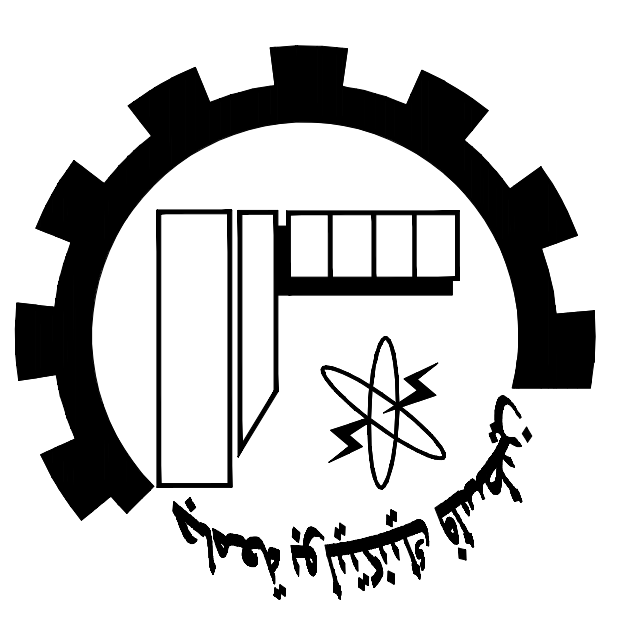
SCALE:

1/100

S25



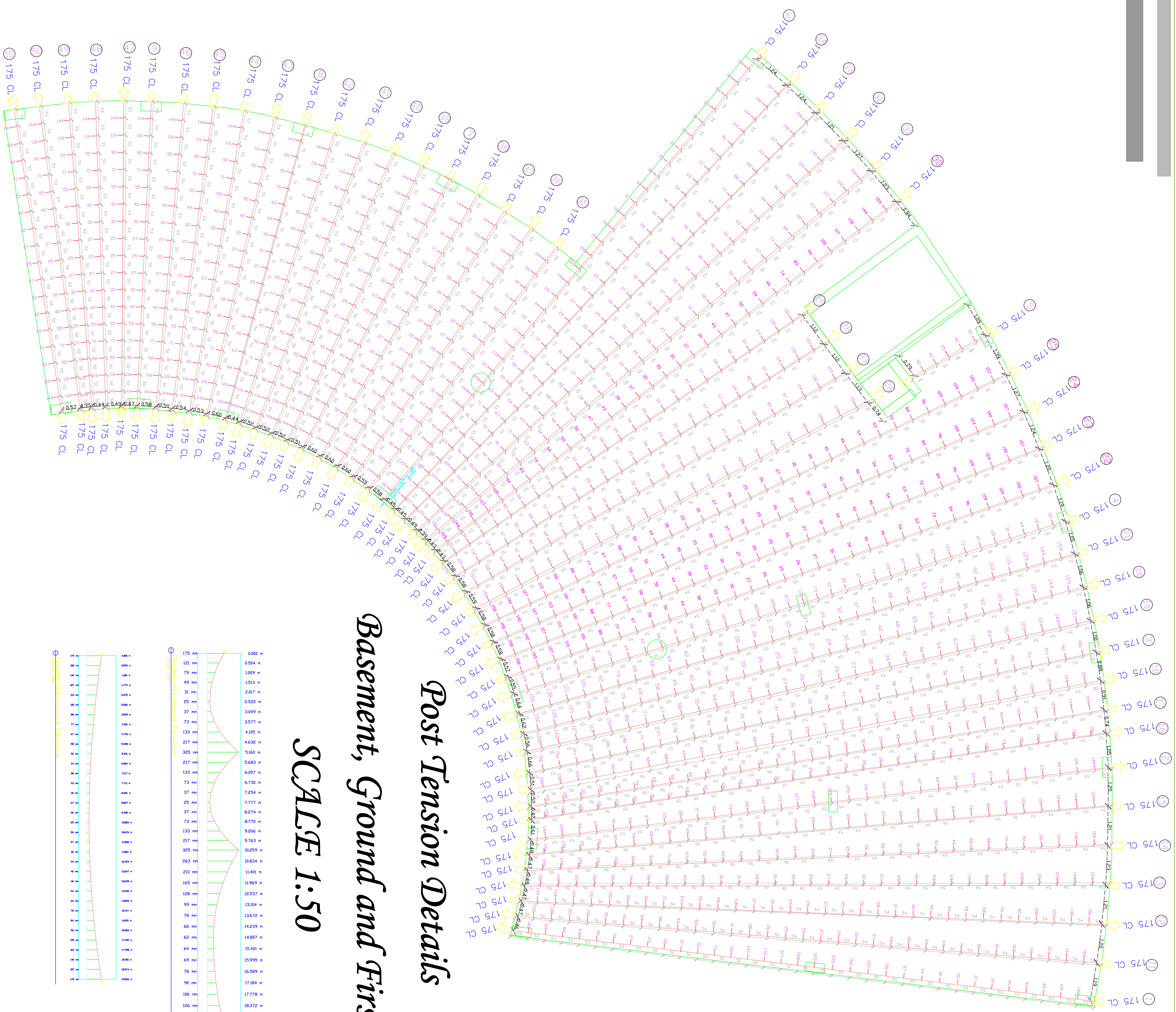
GENERAL NOTES



NOTES:

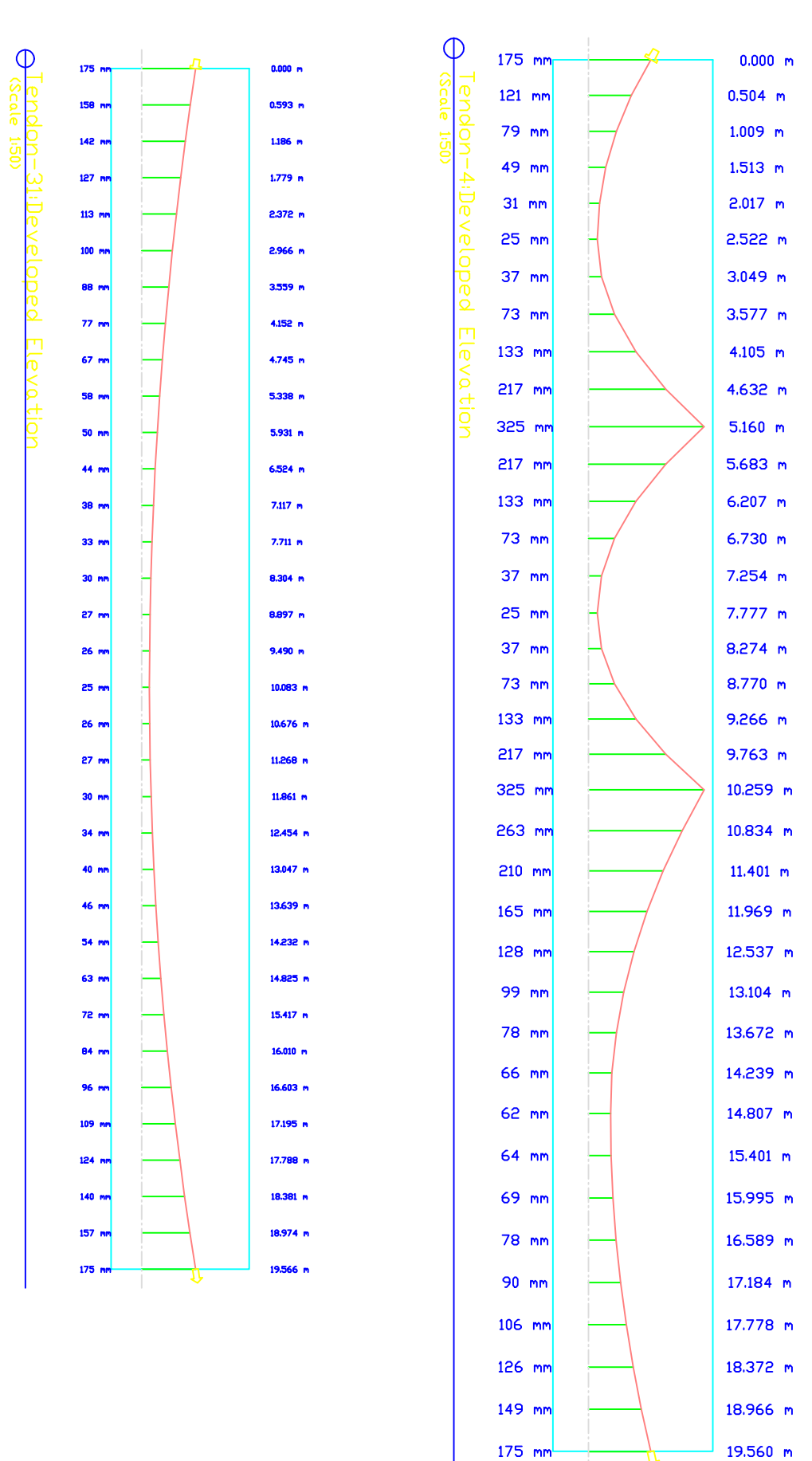
All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering
Designed By:
Israa Rabai
Omar Khamayseh
Issam Hassouna
Abed Al-fatah Jawabreh
Mohammad Abu Zalath
Drawing Title :
Studs Details
Supervisor :
Dr. Mohammad Taha

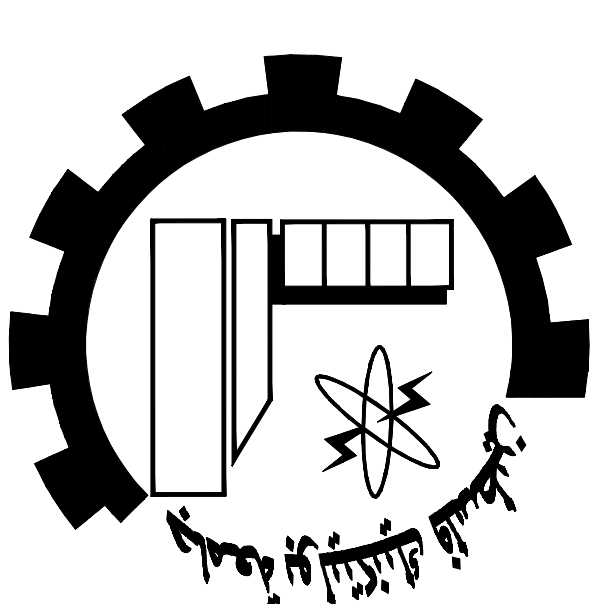


*Basement, Ground and First Floor
Post Tension Details*

SCALE 1:50



GENERAL NOTES



NOTES:

All Dimensions are in Millimeter.
Unless the distance between Tendon
in Meter.
All Spot Levels are in Meters.

Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Post Tension Details

Basement, Ground and First Floor

Supervisor :

Dr. Mohammad Taha

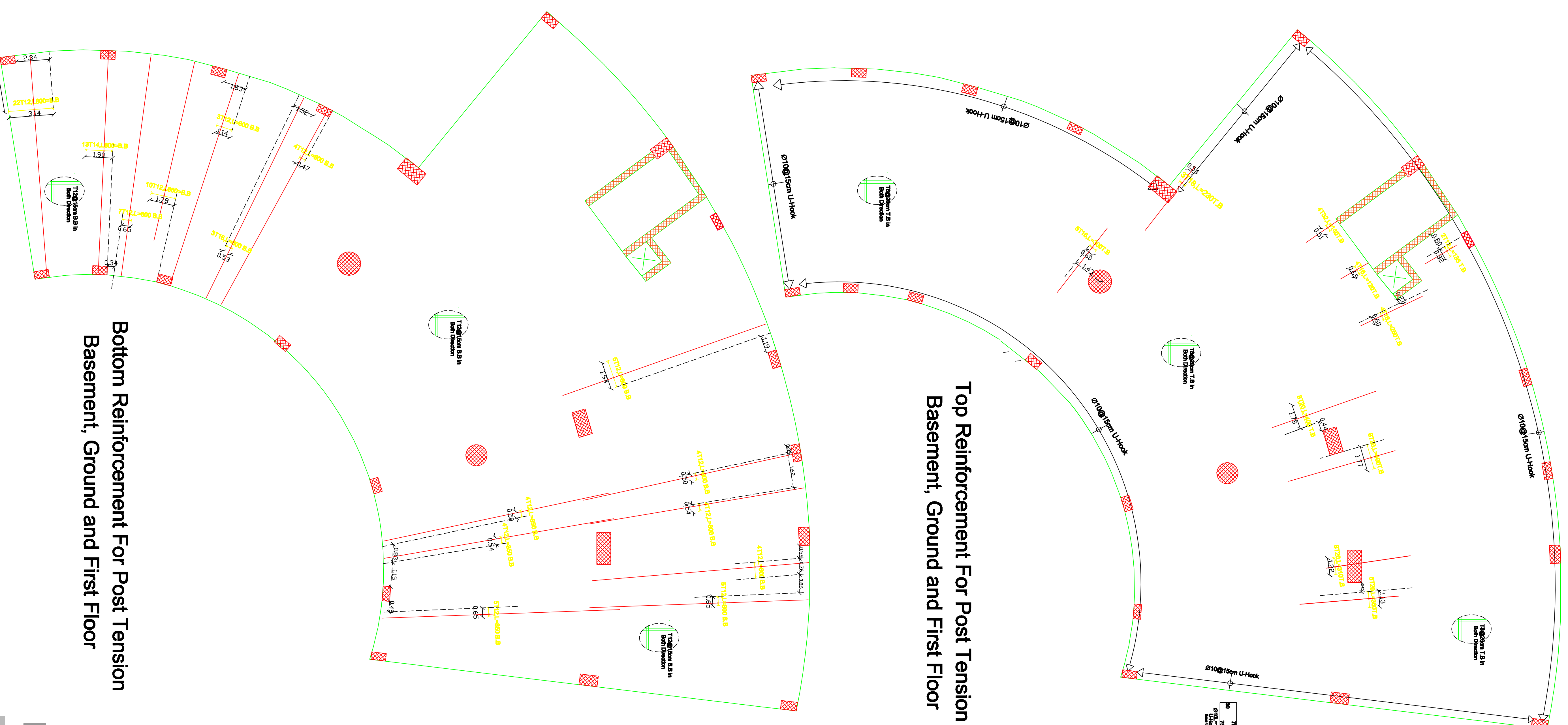
SCALE:

1/50

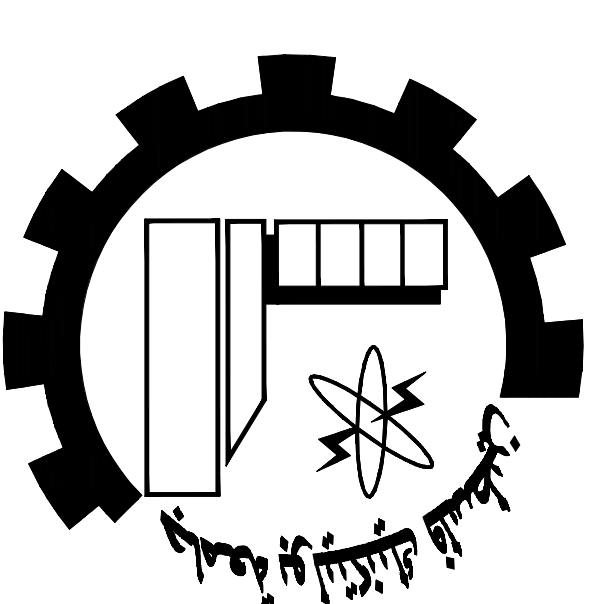
S27

Tendon Schedule Basement, Ground and First Floor

NO OF TENDON	NUMBER OF LIVE ENDS	STRAND TYPE	JACKING FORCE PER STRAND (KN)	NUMBER OF STRANDS	LENGTH OF STRAND (CM)	EXTENSION (CM)	STRESSING
1	1	15.7 SUPER	218	4	22.03	16.4	SINGLE END STRESSED
2	1	15.7 SUPER	218	4	22.03	16.4	SINGLE END STRESSED
3	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
4	1	15.7 SUPER	218	4	22.03	16.4	SINGLE END STRESSED
5	1	15.7 SUPER	218	3	31.4	2.8	SINGLE END STRESSED
6	1	15.7 SUPER	218	4	20.9	15.55	SINGLE END STRESSED
7	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
8	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
9	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
10	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
11	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
12	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
13	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
14	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
15	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
16	1	15.7 SUPER	218	4	10.65	15	SINGLE END STRESSED
17	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
18	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
19	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
20	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
21	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
22	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
23	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
24	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
25	1	15.7 SUPER	218	4	20.14	15	SINGLE END STRESSED
26	1	15.7 SUPER	218	4	15.33	11.4	SINGLE END STRESSED
27	1	15.7 SUPER	218	4	15.33	11.4	SINGLE END STRESSED
28	1	15.7 SUPER	218	4	15.33	11.4	SINGLE END STRESSED
29	1	15.7 SUPER	218	4	15.33	11.4	SINGLE END STRESSED
30	1	15.7 SUPER	218	4	20.02	14.9	SINGLE END STRESSED
31	1	15.7 SUPER	218	4	20.02	14.9	SINGLE END STRESSED
32	1	15.7 SUPER	218	4	20.02	14.9	SINGLE END STRESSED
33	1	15.7 SUPER	218	4	20.02	14.9	SINGLE END STRESSED
34	1	15.7 SUPER	218	4	20.02	14.9	SINGLE END STRESSED
35	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
36	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
37	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
38	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
39	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
40	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
41	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
42	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
43	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
44	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
45	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
46	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
47	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
48	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
49	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED
50	1	15.7 SUPER	218	3	10.65	7.9	SINGLE END STRESSED



GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

Palmyra Polytechnic University

Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Top and Bottom Reinforcement For Post Tension

Basement, Ground and First Floor

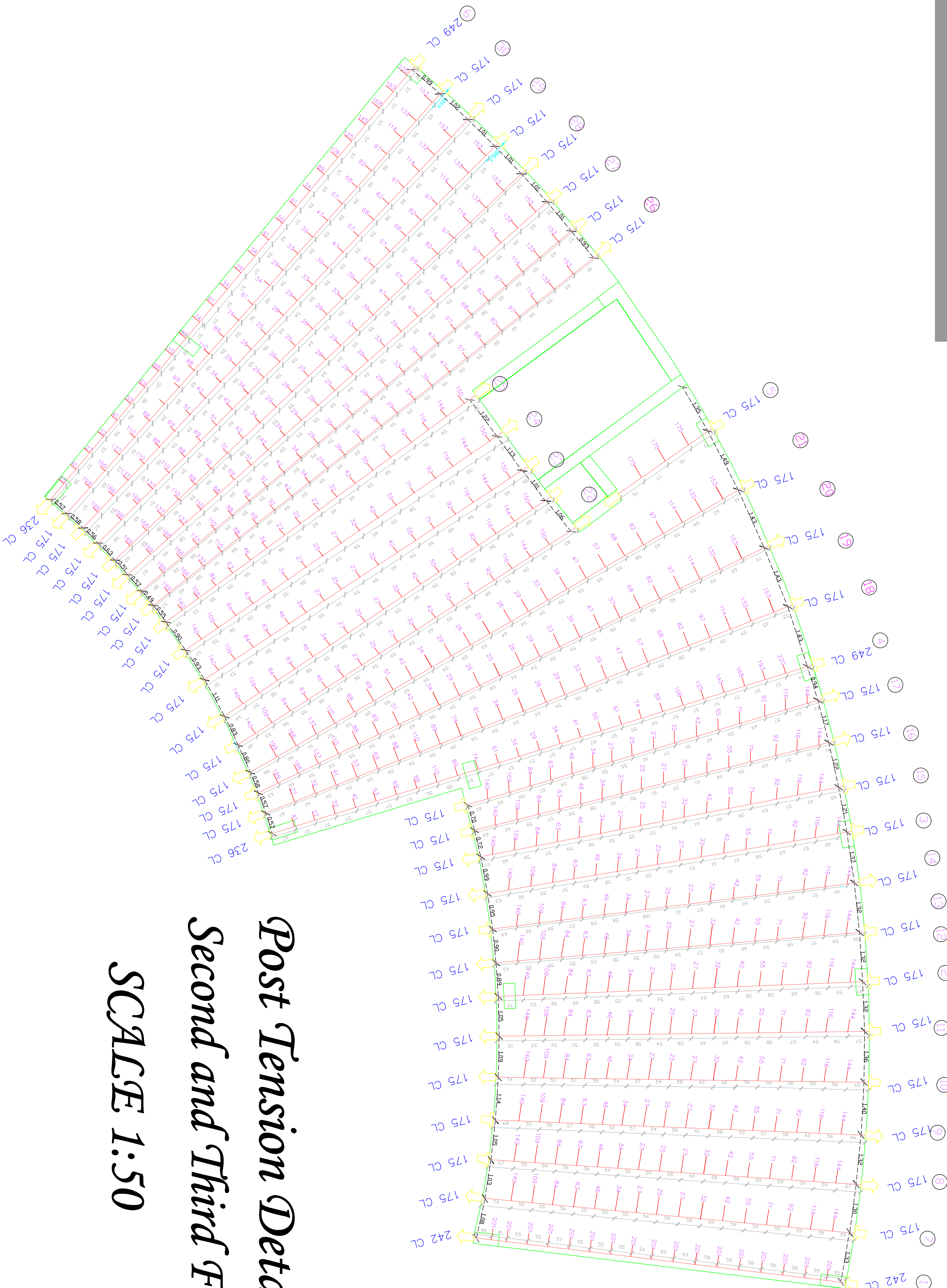
Supervisor :

Dr. Mohammad Taha

SCALE:

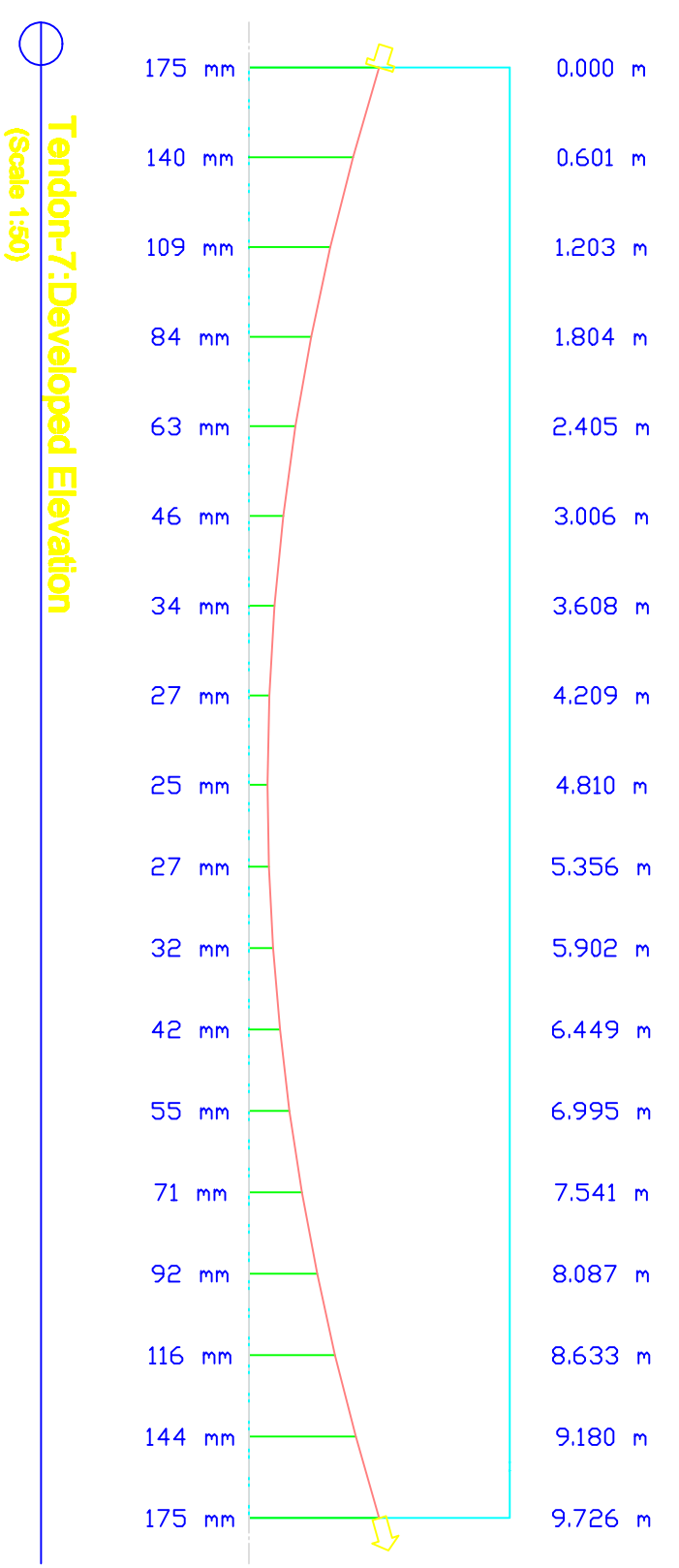
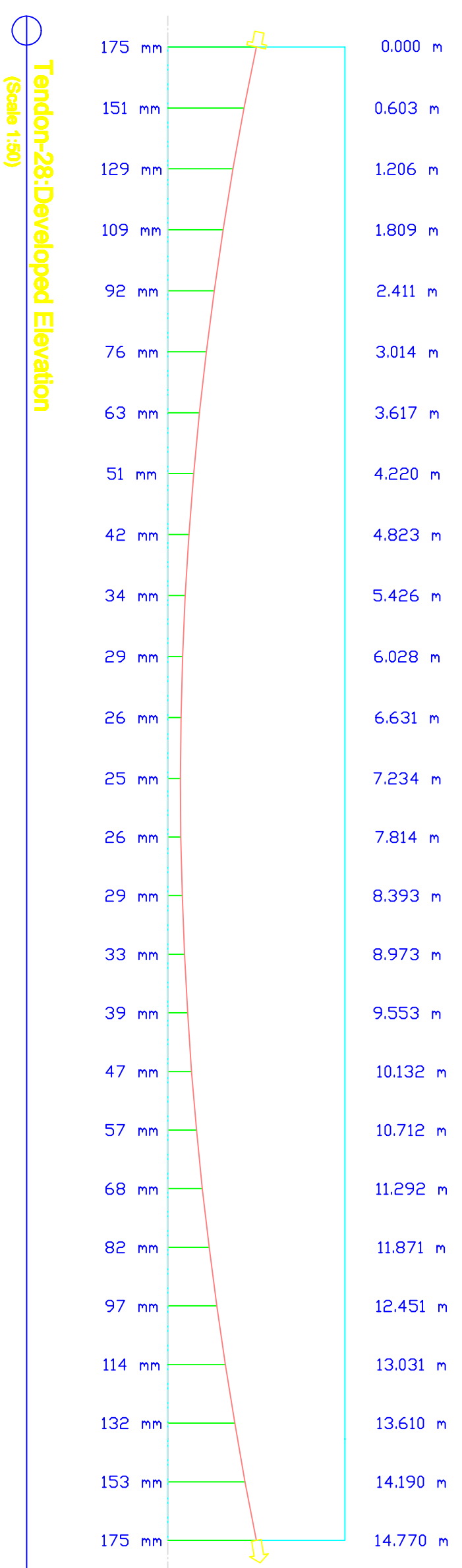
1/100

S28

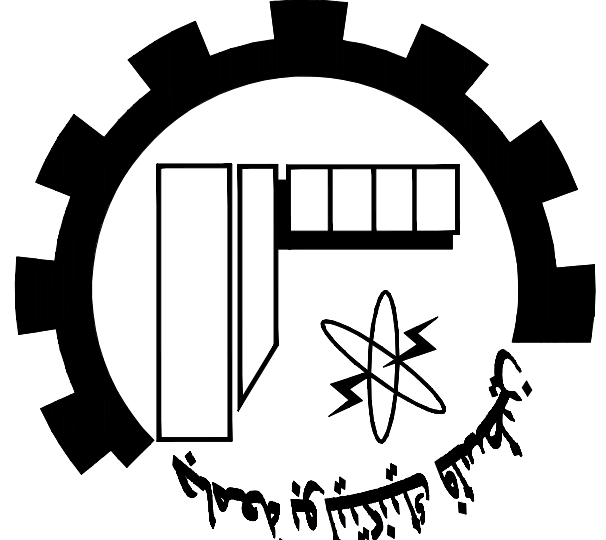


Post Tension Details
Second and Third Floor

SCALE 1:50



GENERAL NOTES



NOTES:

All Dimensions are in Millimeter.
 Unless the distance between Tendon
 in Meter.
 All Spot Levels are in Meters.

Palestine Polytechnic University
 Civil, Arch. Eng. Department
 Building Engineering

Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatrah Jawabreh
 Mohammad Abu Zalath

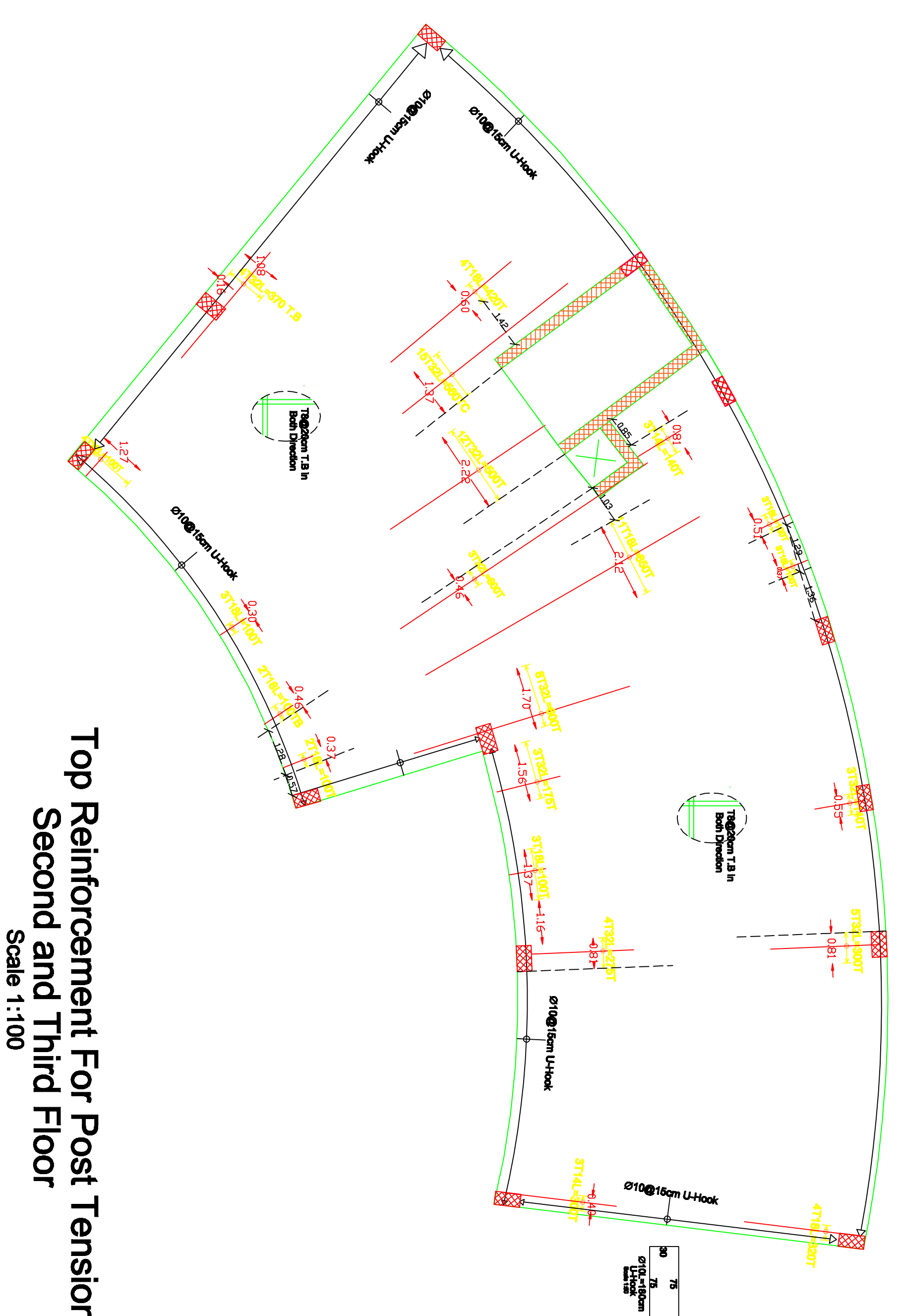
Drawing Title:
 Post Tension Details
 Second and Third Floor

Supervisor:
 Dr. Mohammad Taha

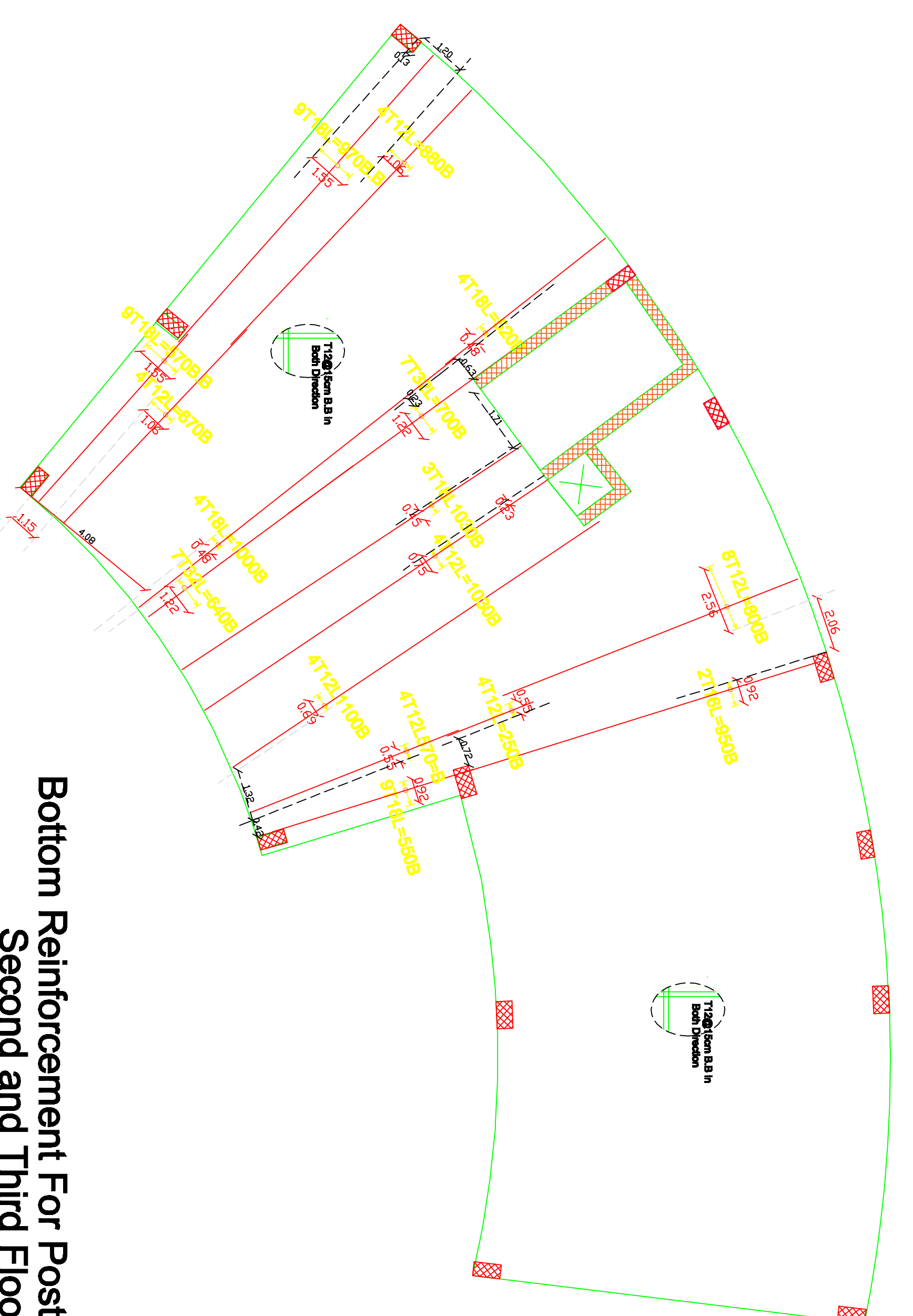
SCALE:
 1/50
S29

Tendon Schedule
Second and Third Floor

NO DF TENDON	NUMBER OF LIVE ENDS	STRAND TYPE	JACKING FORCE PER STRAND (KN)	NUMBER OF STRANDS	LENGTH OF STRAND (m)	EXTENSION (cm)	STRESSING
1	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
2	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
3	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
4	1	15.7 SUPER	218	4	15.18	11.3	SINGLE END STRESSED
5	1	15.7 SUPER	218	3	2.80	2.8	SINGLE END STRESSED
6	1	15.7 SUPER	218	4	15.18	11.3	SINGLE END STRESSED
7	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
8	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
9	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
10	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
11	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
12	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
13	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
14	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
15	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
16	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
17	1	15.7 SUPER	218	3	10.10	7.5	SINGLE END STRESSED
18	1	15.7 SUPER	218	4	15.18	11.3	SINGLE END STRESSED
19	1	15.7 SUPER	218	4	15.18	11.3	SINGLE END STRESSED
20	1	15.7 SUPER	218	4	15.18	11.3	SINGLE END STRESSED
21	1	15.7 SUPER	218	4	15.18	11.3	SINGLE END STRESSED
22	1	15.7 SUPER	218	3	10.47	7.8	SINGLE END STRESSED
23	1	15.7 SUPER	218	3	10.47	7.8	SINGLE END STRESSED
24	1	15.7 SUPER	218	3	10.47	7.8	SINGLE END STRESSED
25	1	15.7 SUPER	218	3	10.47	7.8	SINGLE END STRESSED
26	1	15.7 SUPER	218	4	15.18	11.3	SINGLE END STRESSED
27	1	15.7 SUPER	218	4	15.18	11.3	SINGLE END STRESSED
28	1	15.7 SUPER	218	4	15.18	11.3	SINGLE END STRESSED
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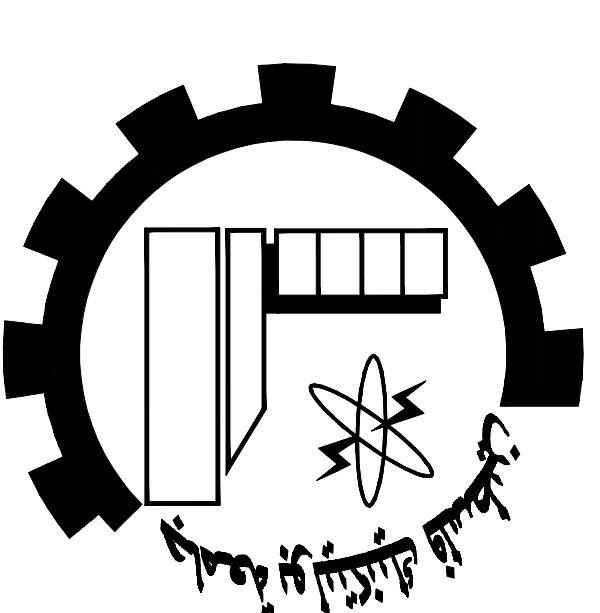


Top Reinforcement For Post Tension
Second and Third Floor
Scale 1:100



Bottom Reinforcement For Post Tension
Second and Third Floor
Scale 1:100

GENERAL NOTES



NOTES:

All Dimensions are in Meters.
Unless otherwise shown.
All Spot Levels are in Meters.

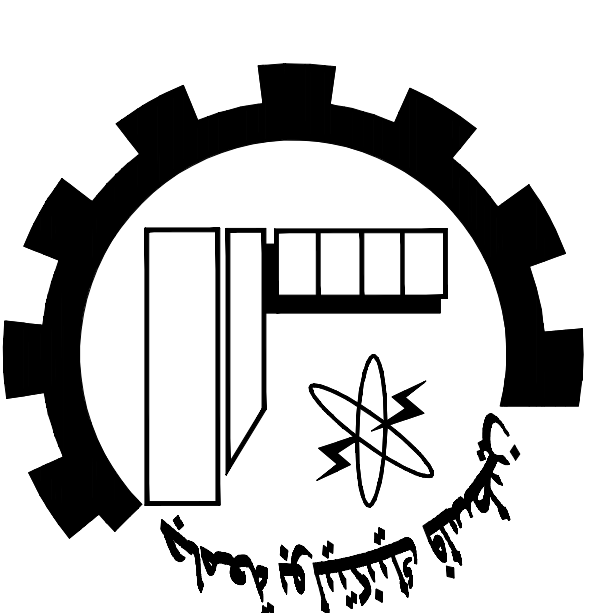
Palestine Polytechnic University
 Civil, Arch. Eng. Department
Building Engineering
Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatah Jawabreh
 Mohammad Abu Zalah
Drawing Title :
 Top and Bottom Reinforcement For Post Tension
 Second and Third floor
Supervisor :
 Dr. Mohammad Taha

SCALE:

1/100

S30

GENERAL NOTES



NOTES:

all dimensions are in meters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Beams Details

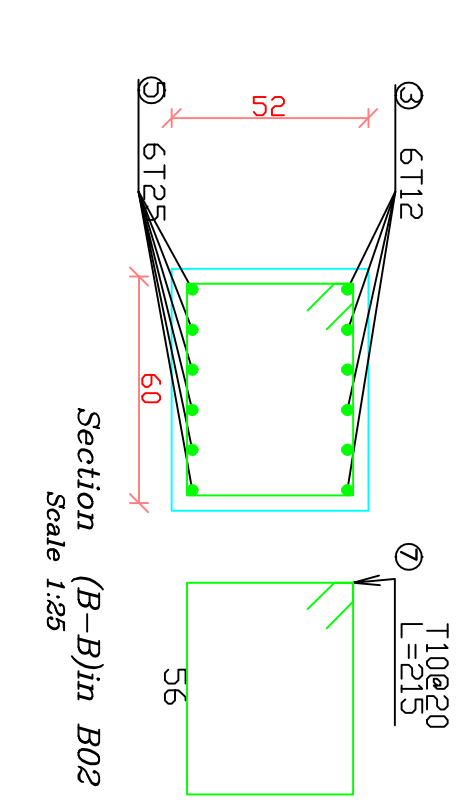
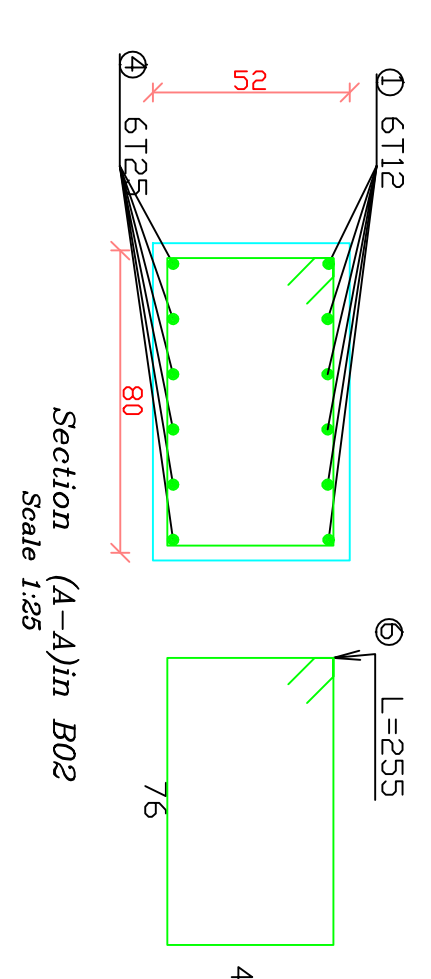
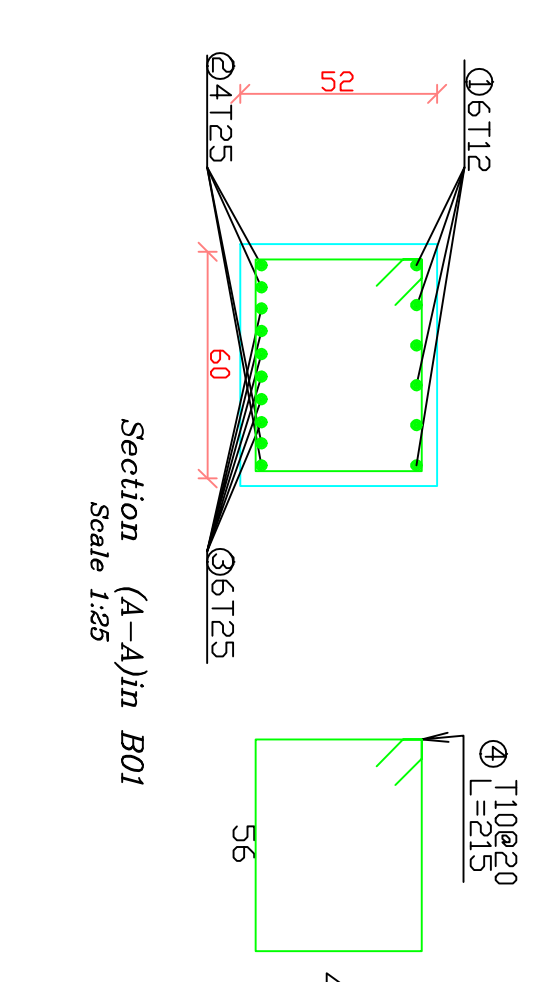
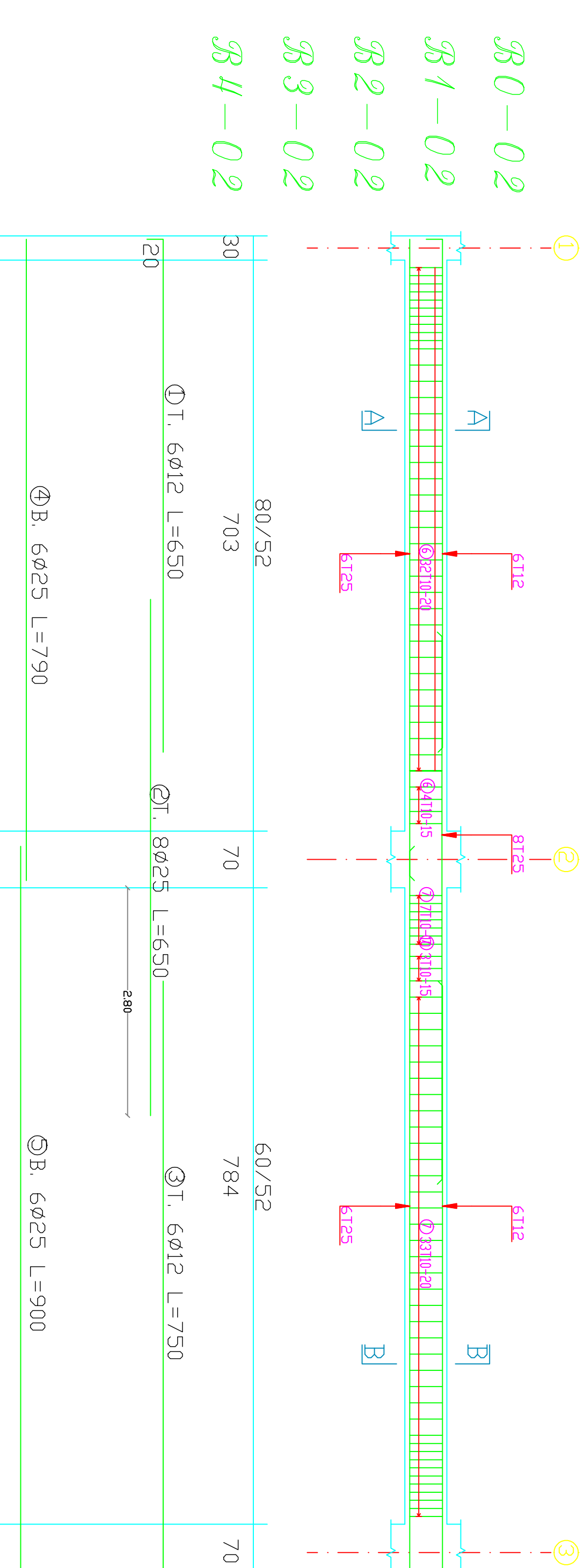
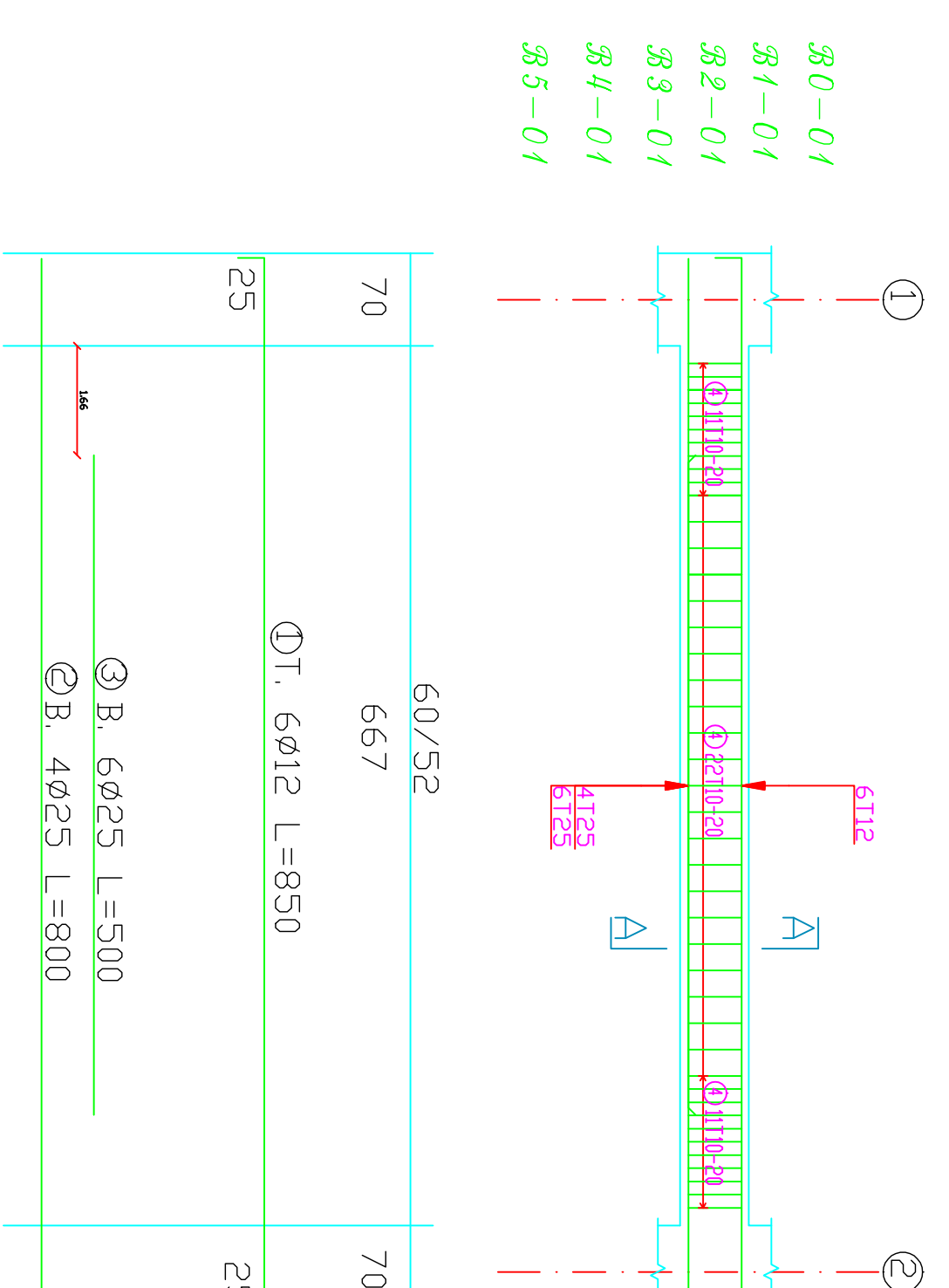
Supervisor :

Dr. Mohammad Taha

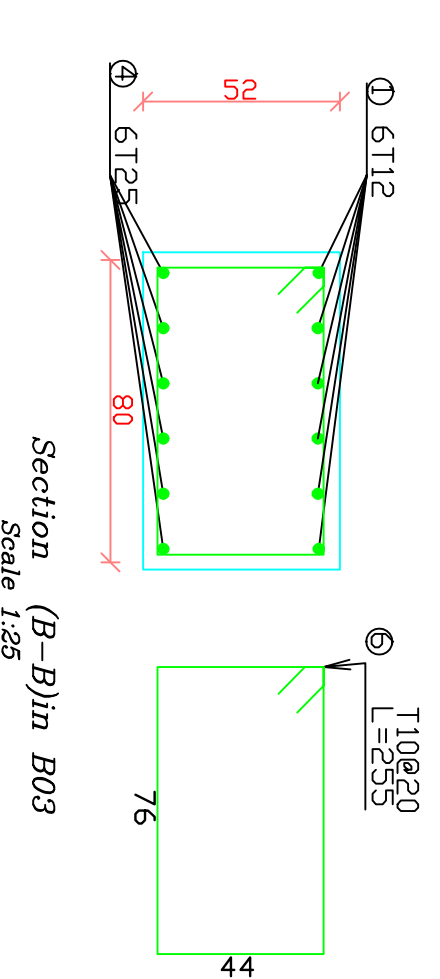
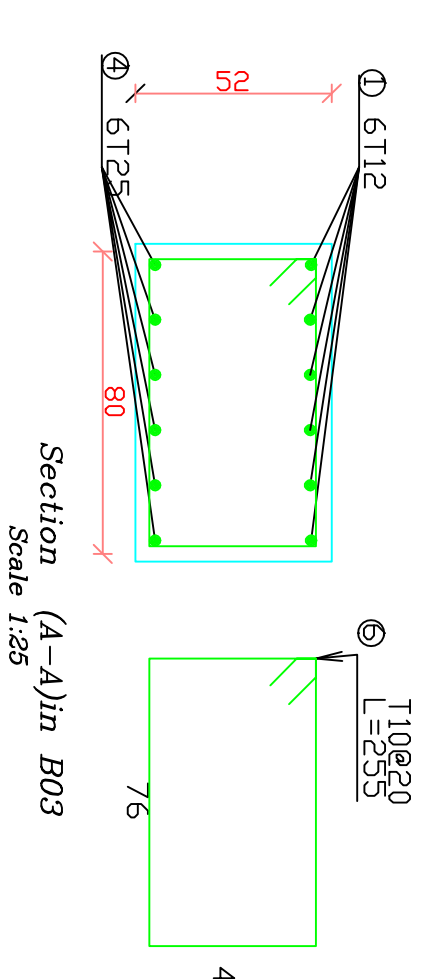
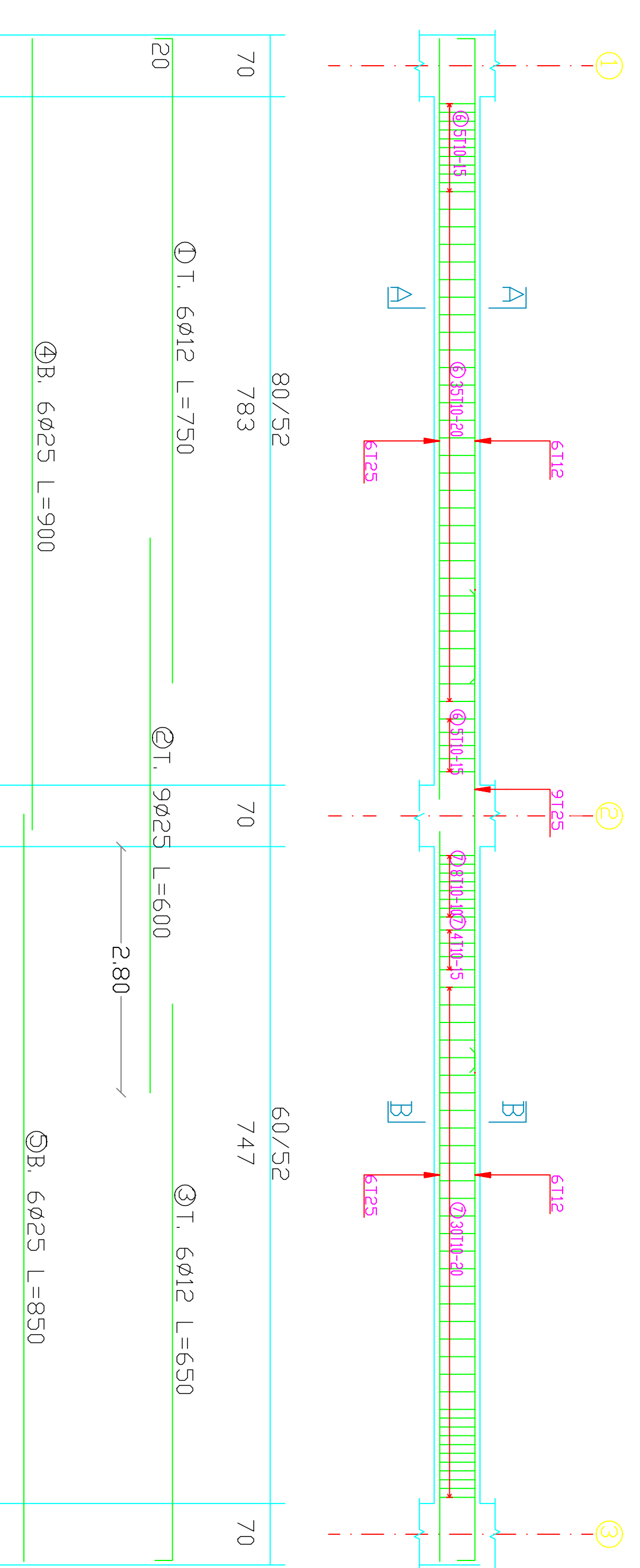
SCALE:

1/50

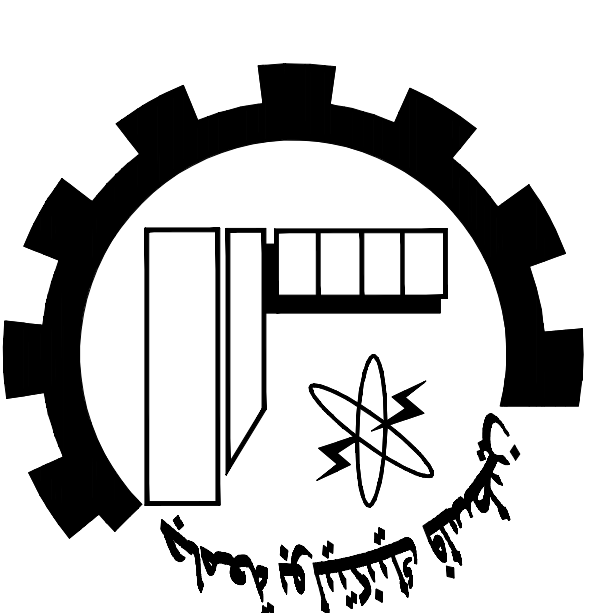
S31



R0-03
R1-03
R2-03
R3-03
R4-03
R5-03



GENERAL NOTES



NOTES:

all dimensions are in meters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University

Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalah

Drawing Title :

Beams Details

Supervisor :

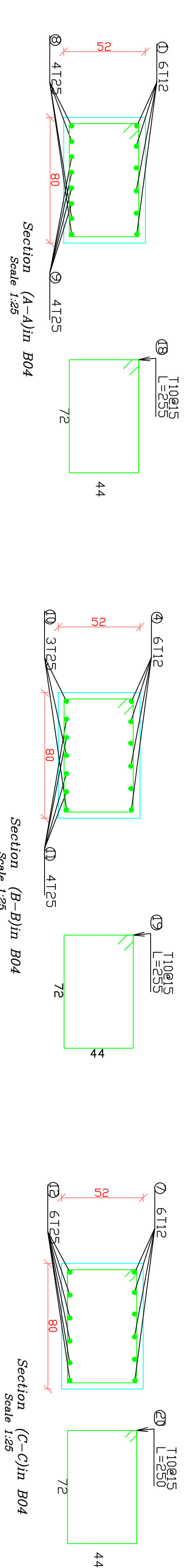
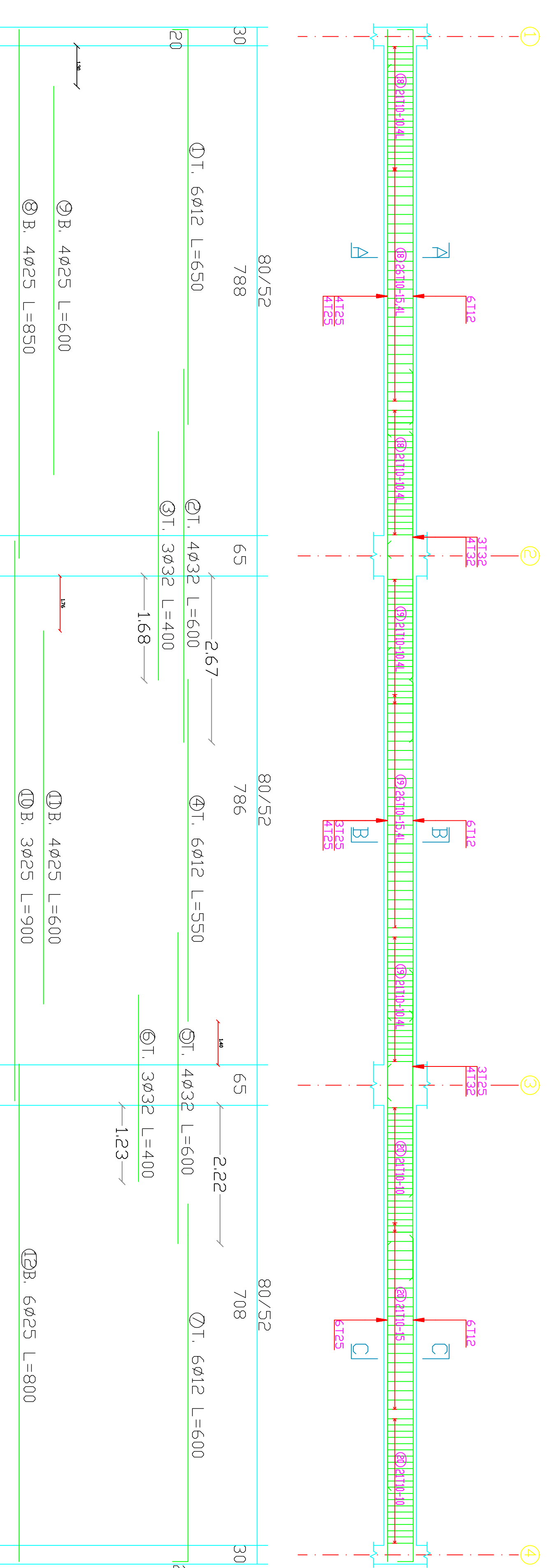
Dr. Mohammad Taha

SCALE:

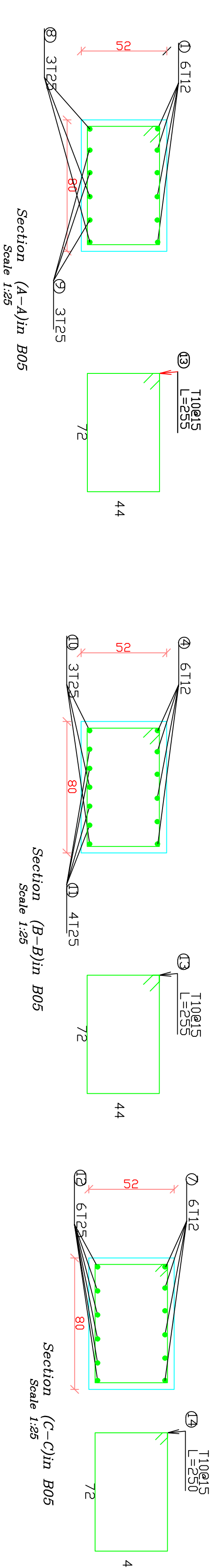
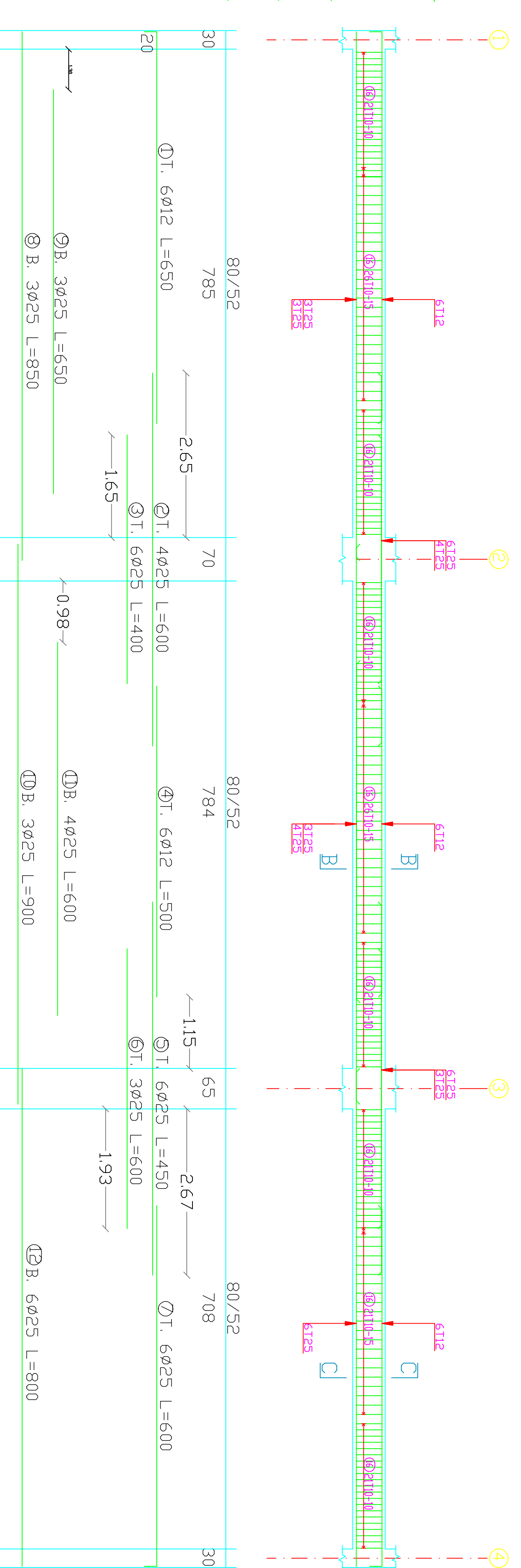
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S32

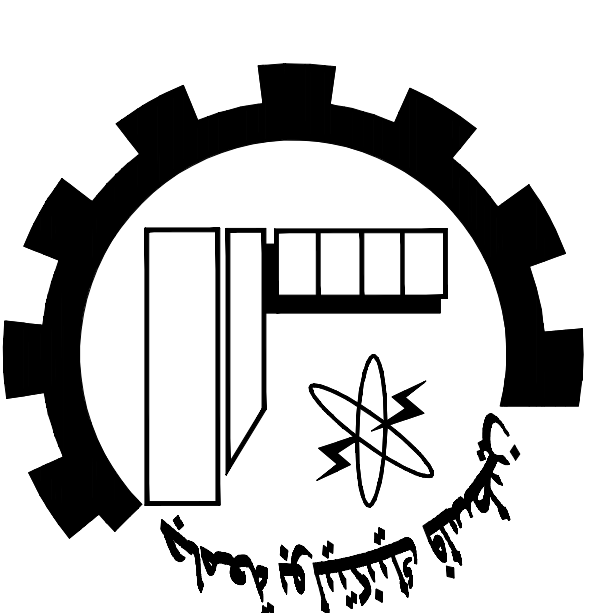
30-04
31-04
32-04
33-04
34-04



30-05
31-05
32-05
33-05
34-05



GENERAL NOTES



NOTES:

all dimensions are in meters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Beams Details

Supervisor :

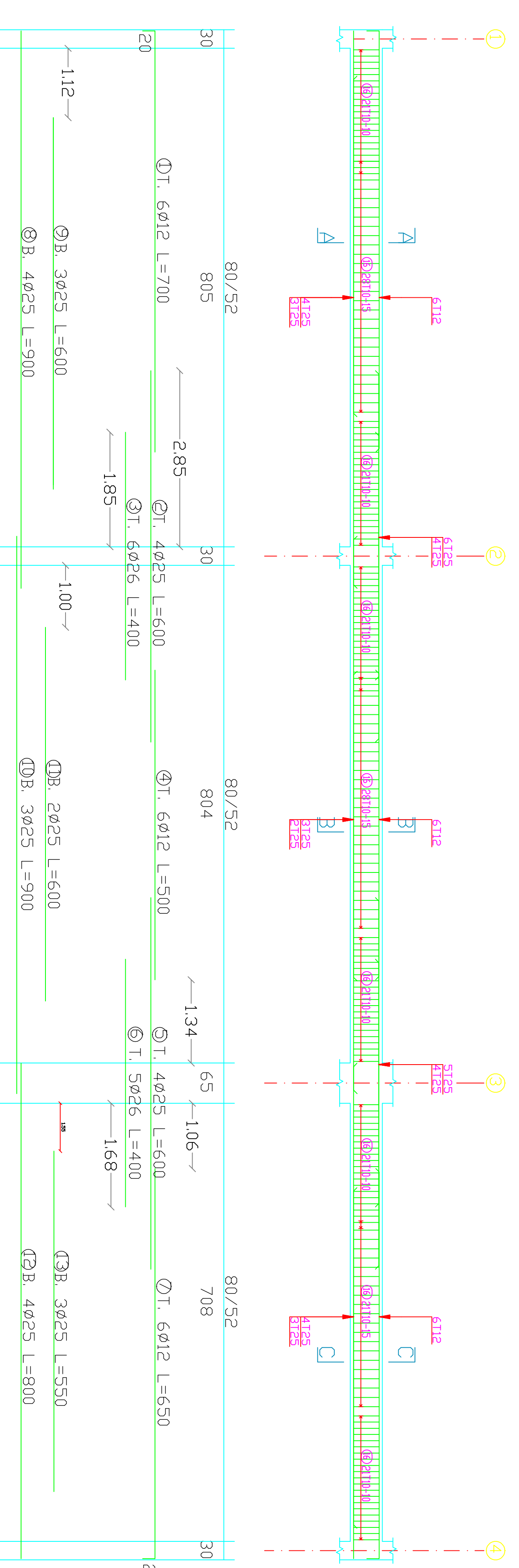
Dr. Mohammad Taha

SCALE:

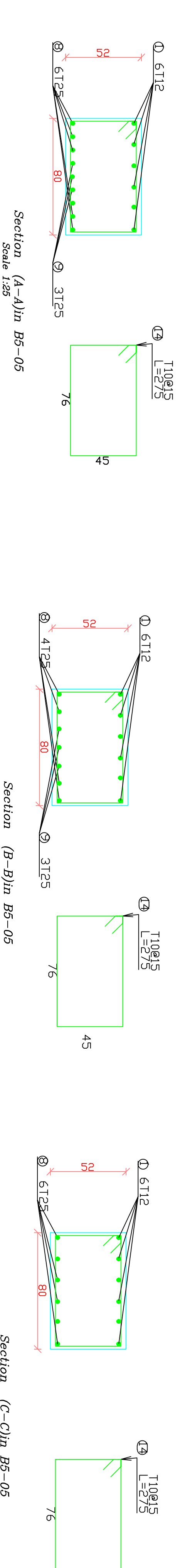
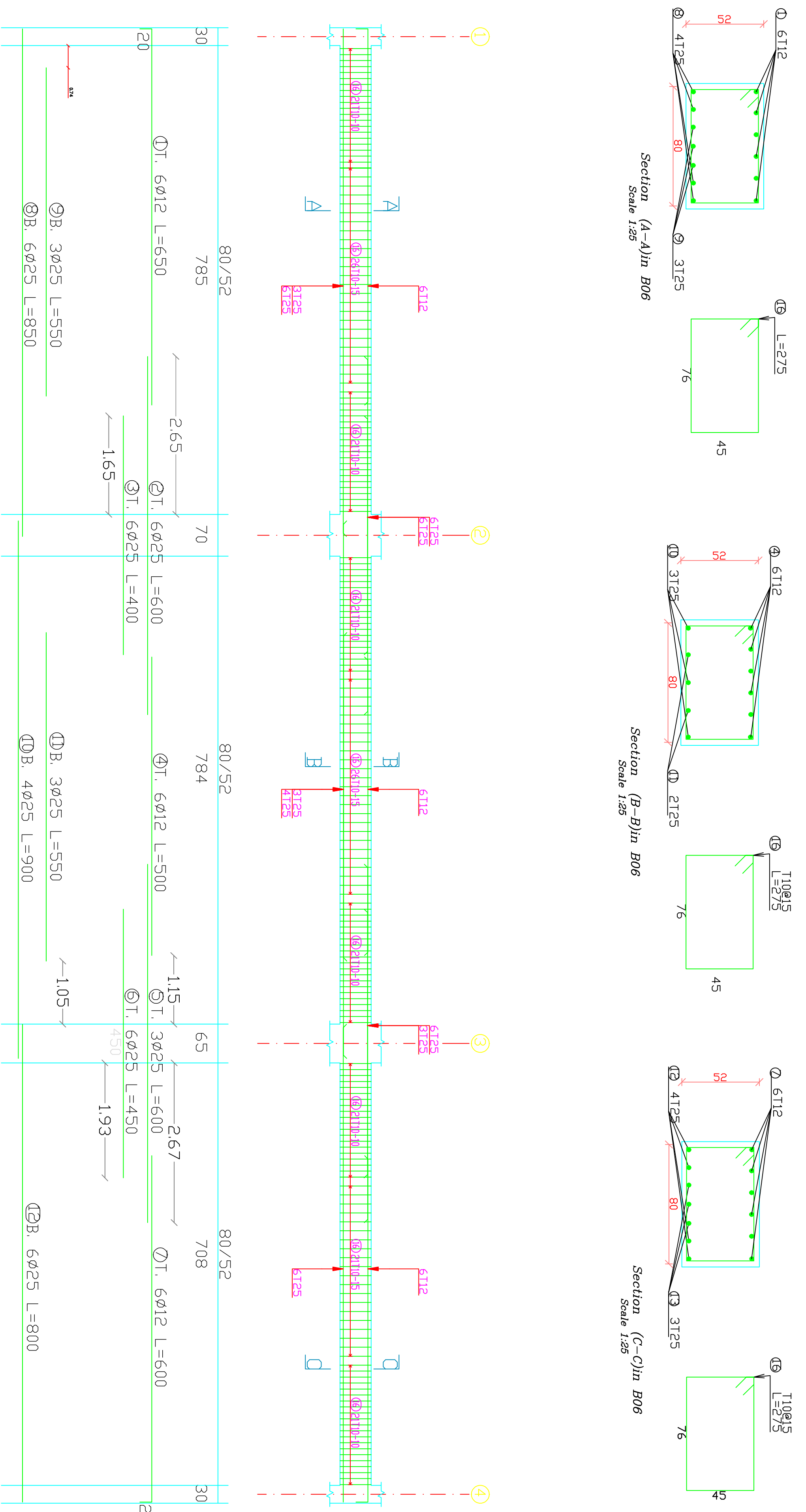
1/50

333

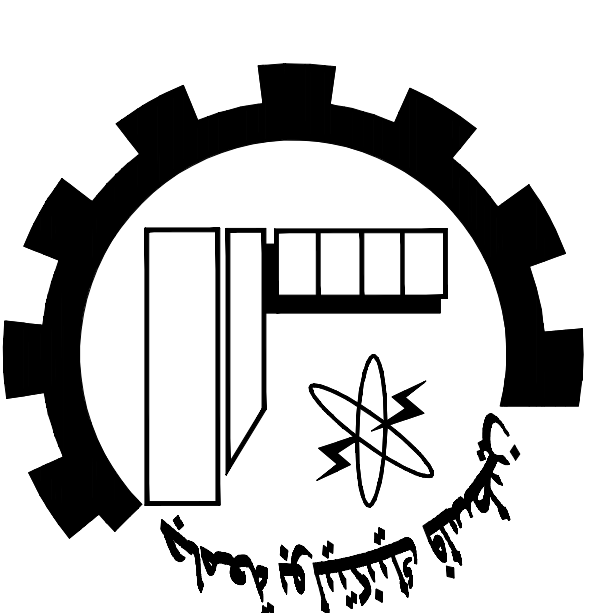
80-06
81-06
82-06
83-06
84-06



85-05



GENERAL NOTES



NOTES:

all dimensions are in meters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University
Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Beams Details

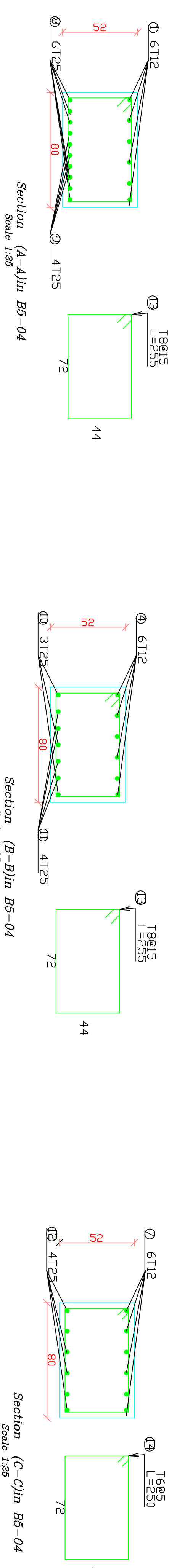
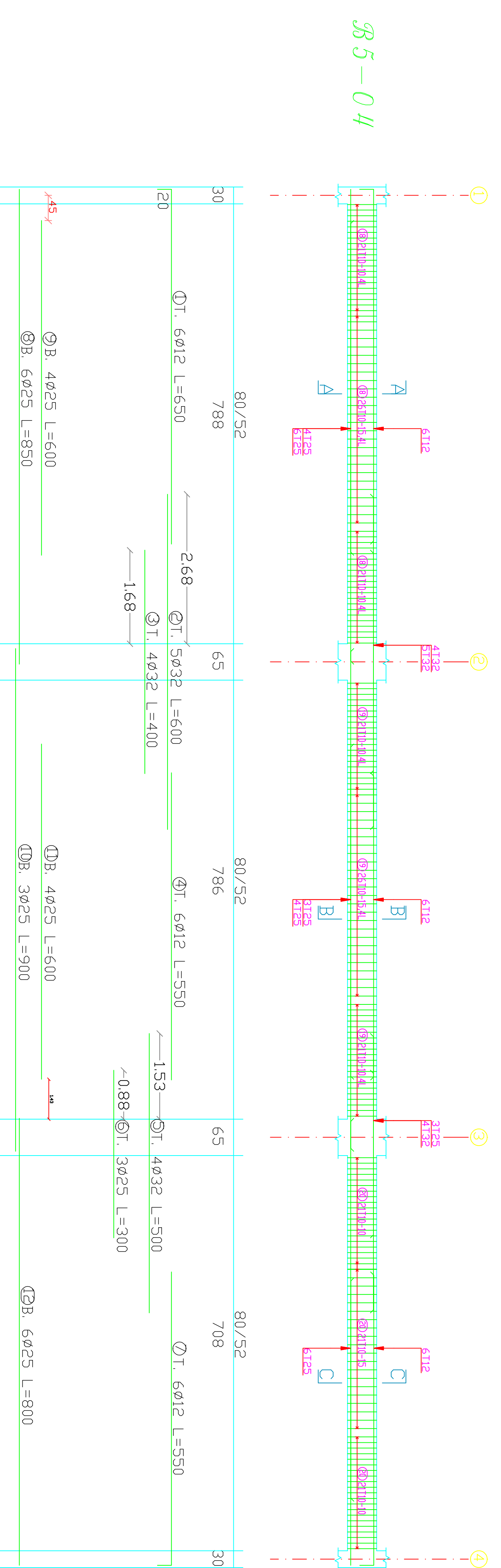
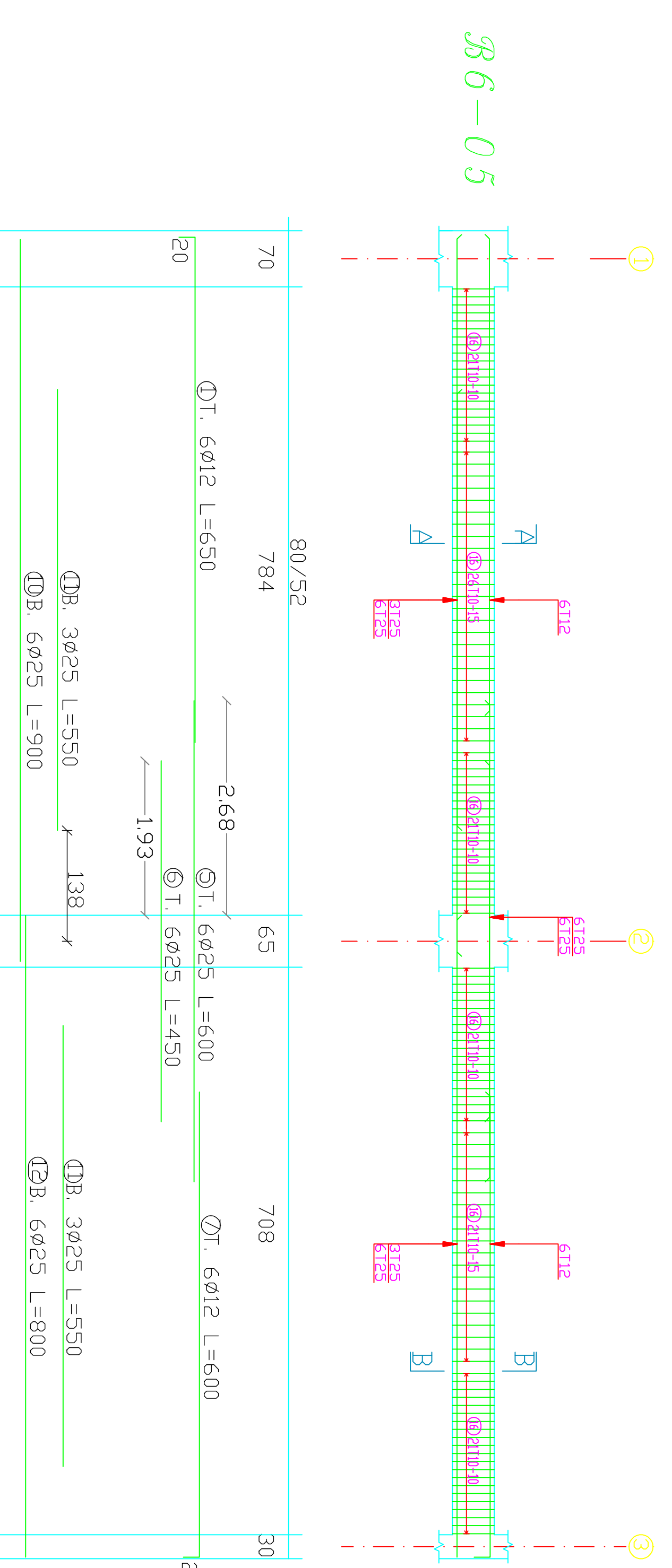
Supervisor :

Dr. Mohammad Taha

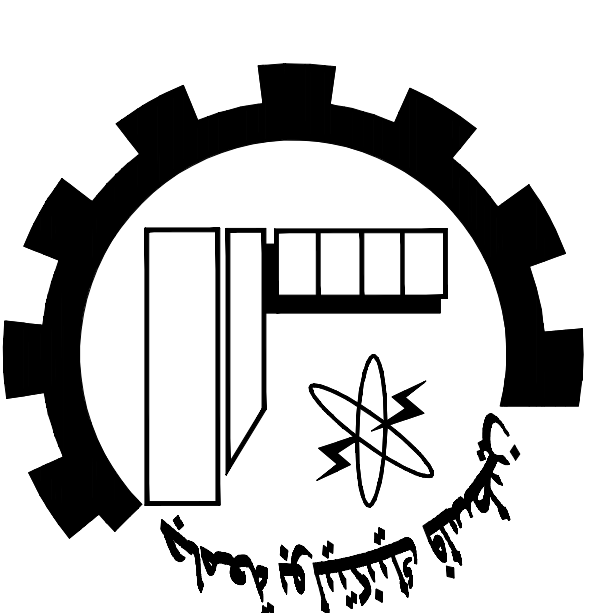
SCALE:

1/50

S34



GENERAL NOTES



NOTES:

all dimensions are in meters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abded Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Beams Details

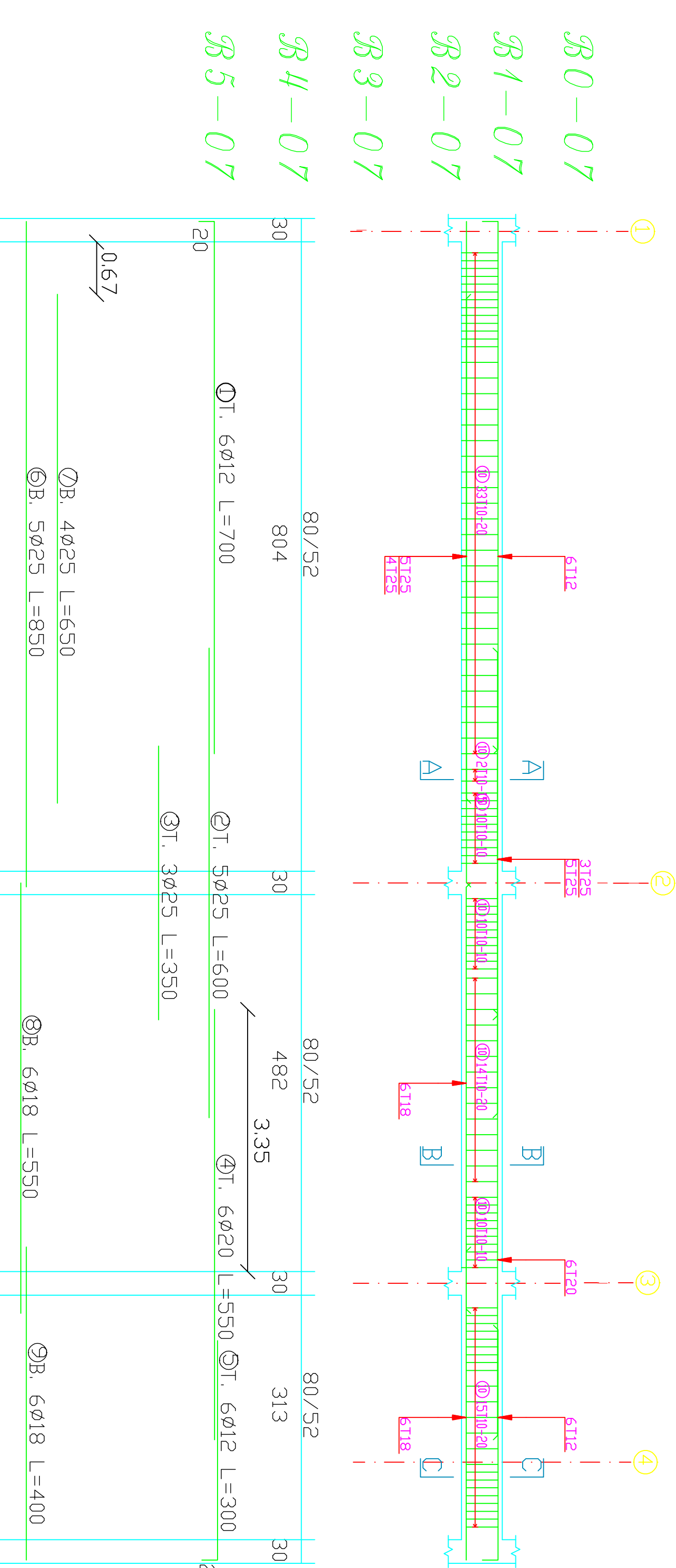
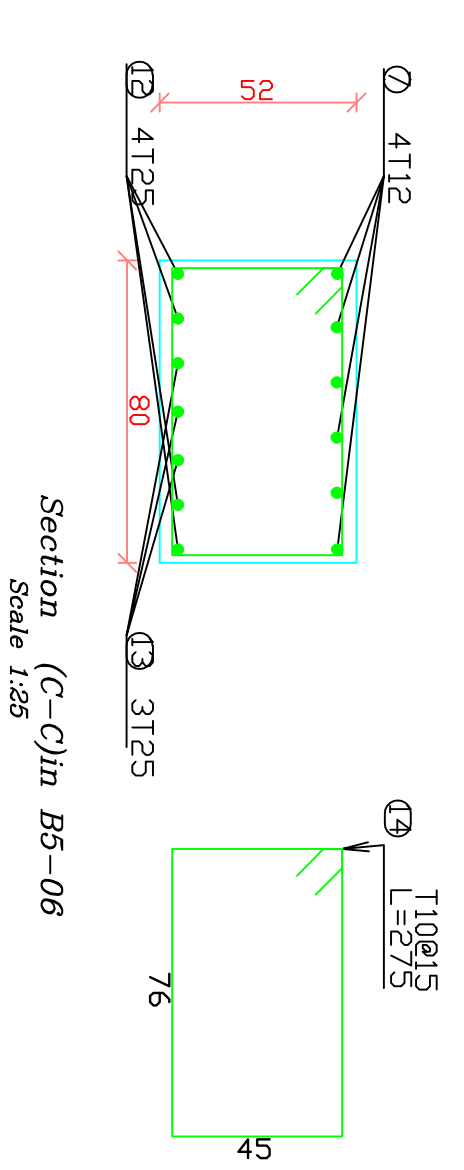
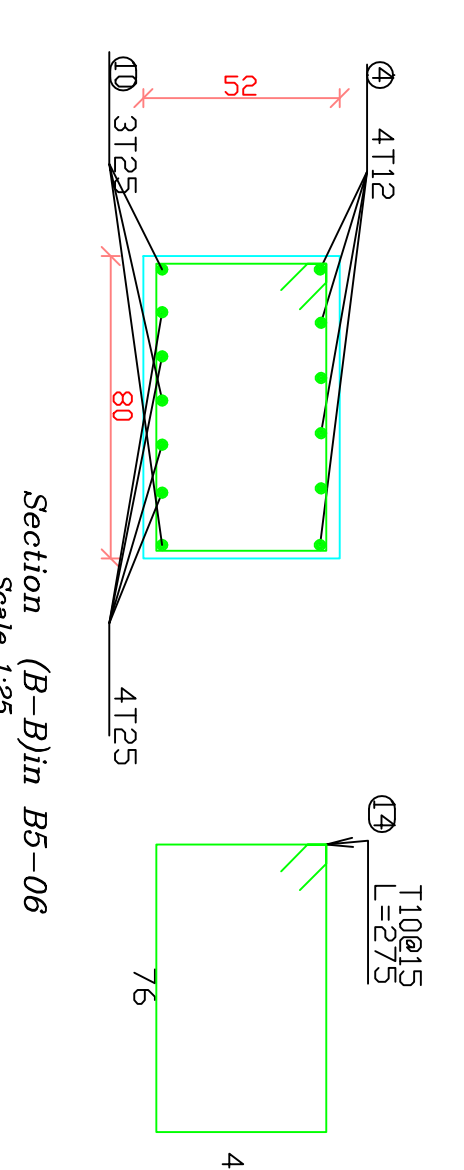
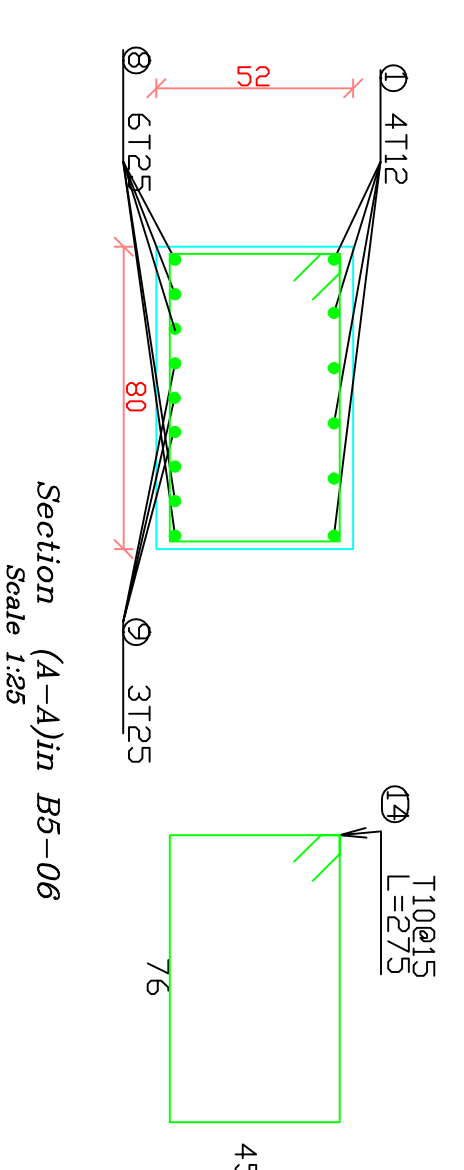
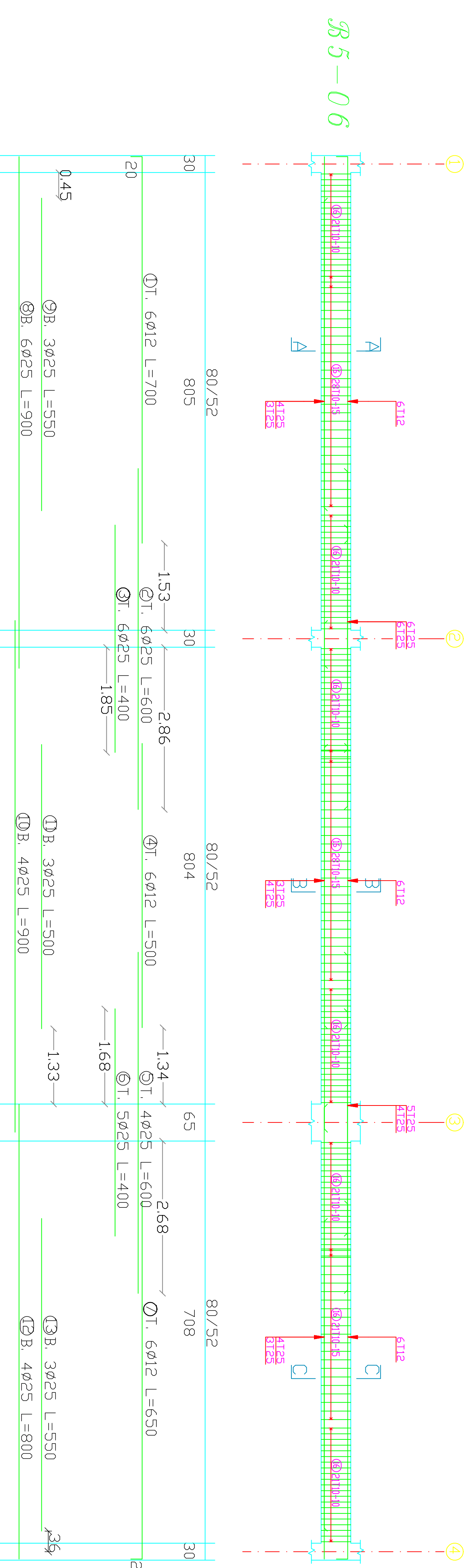
Supervisor :

Dr. Mohammad Taha

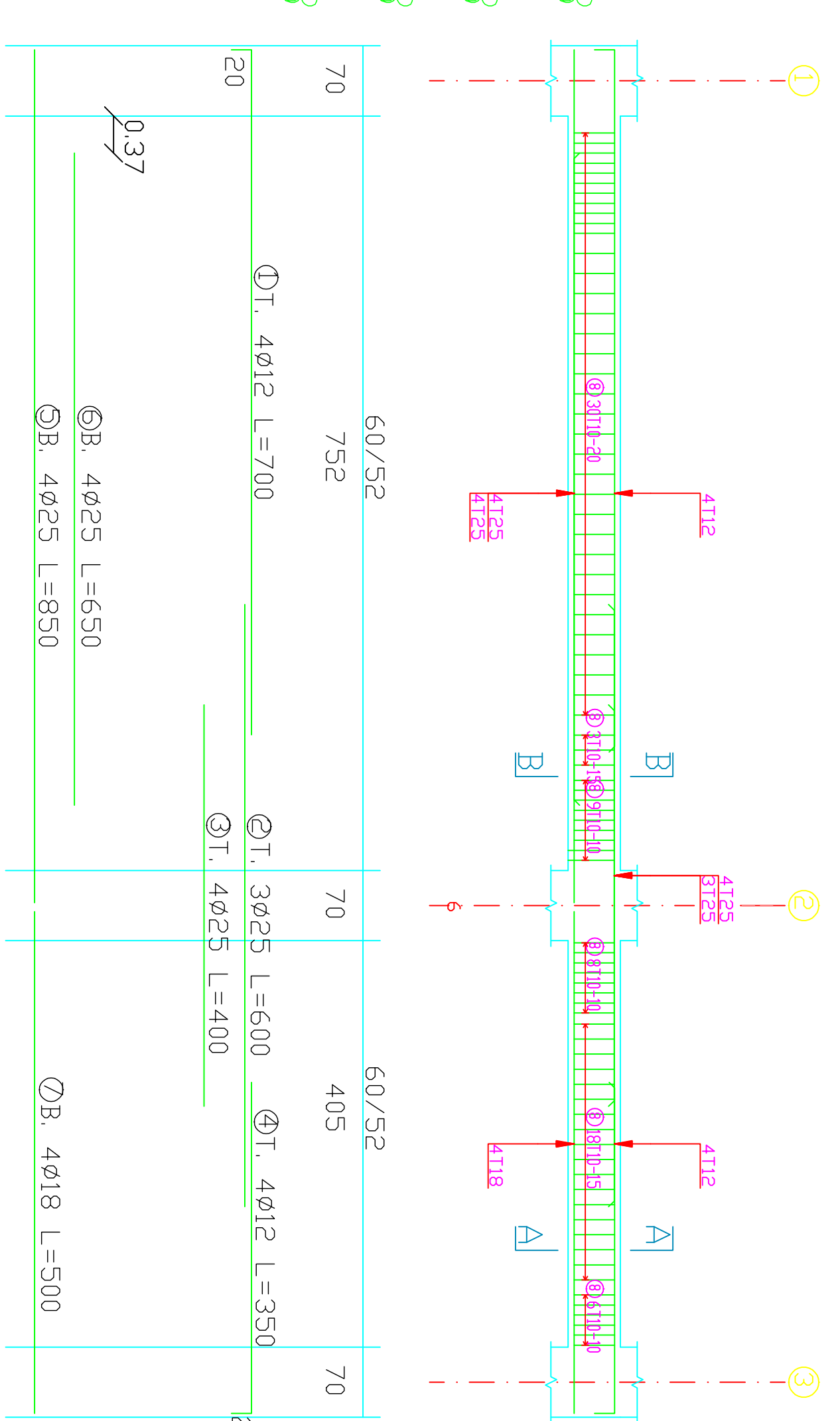
SCALE:

1/50

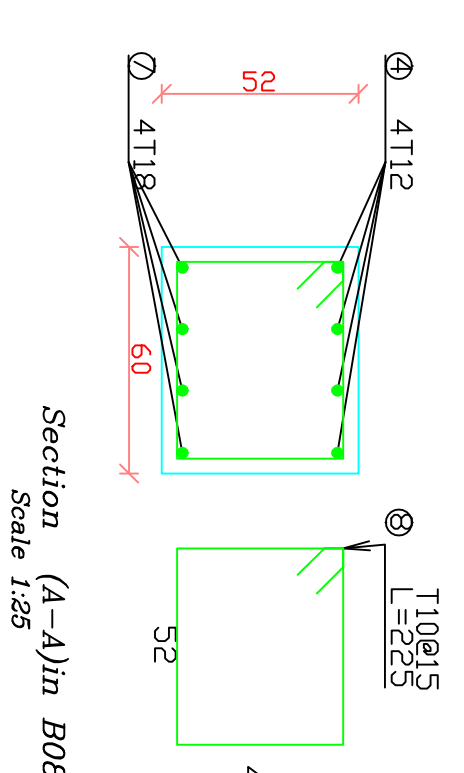
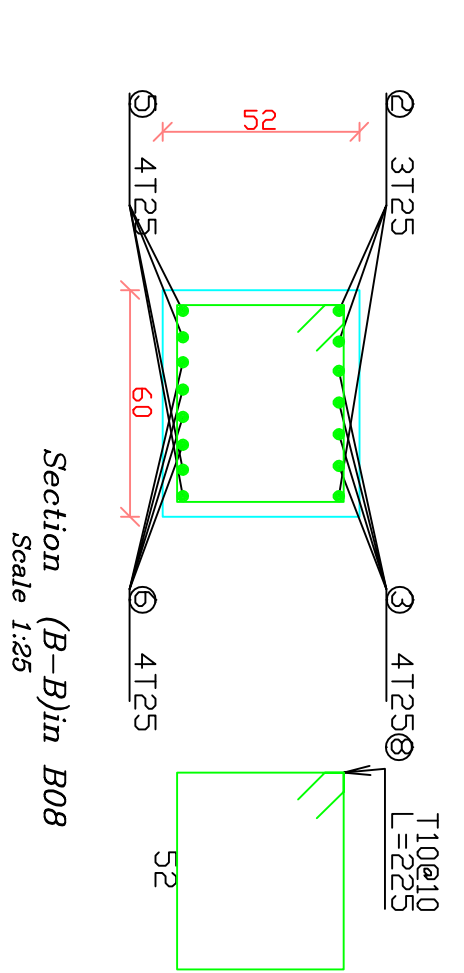
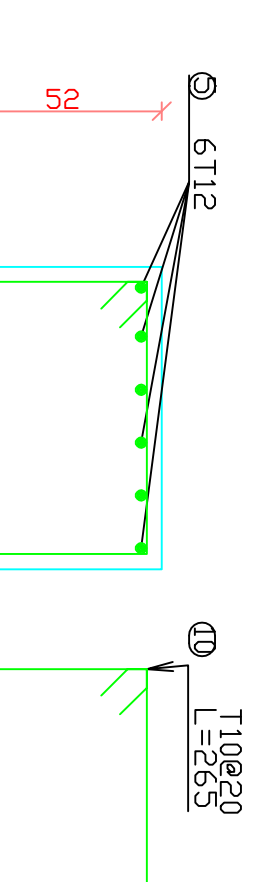
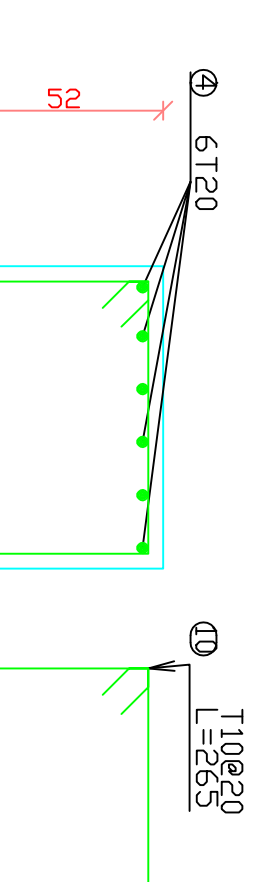
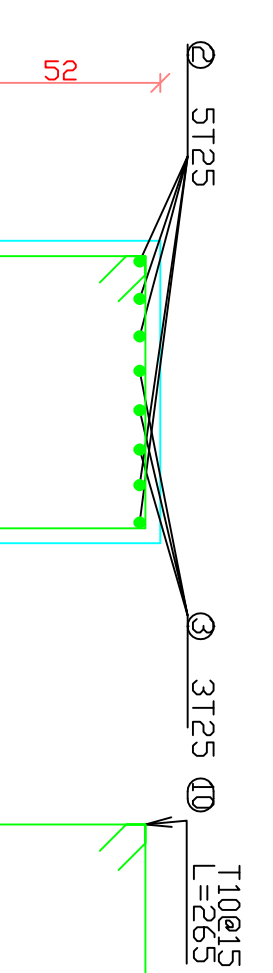
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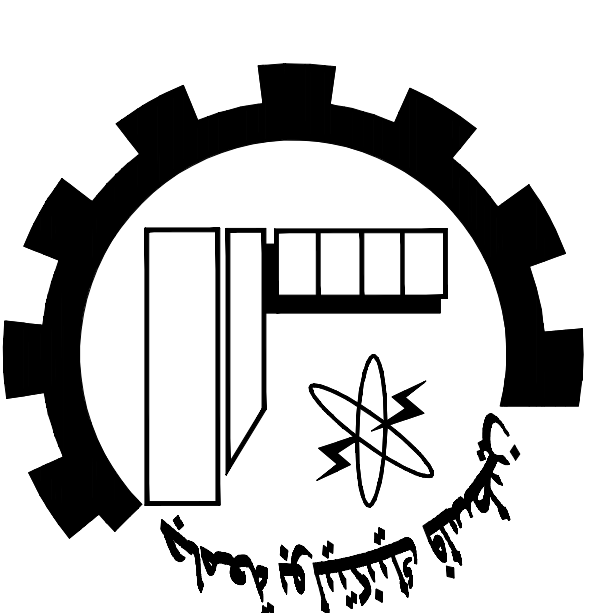
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35-07



30-08
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34-08
35-08



GENERAL NOTES



NOTES:

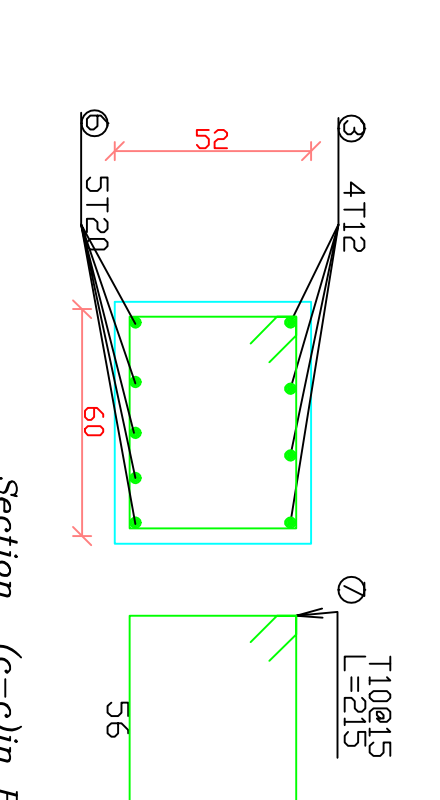
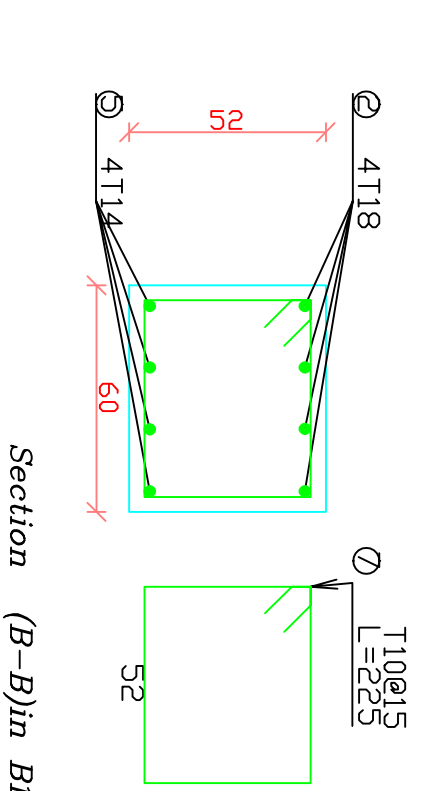
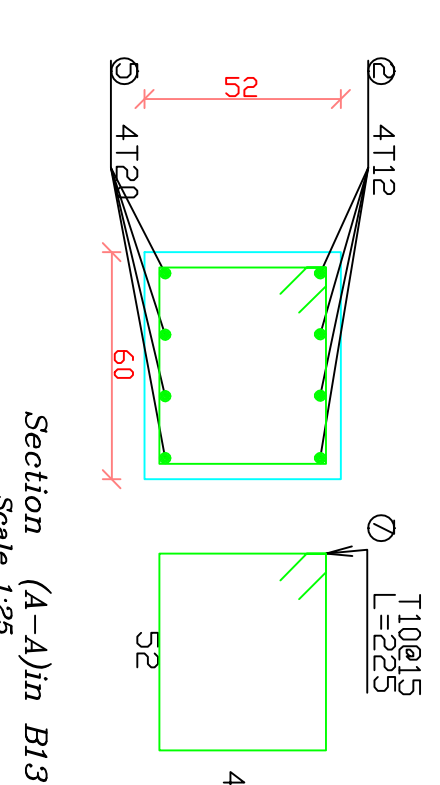
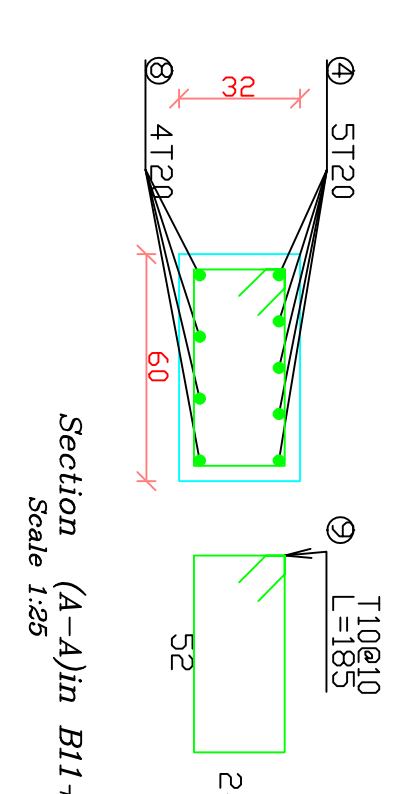
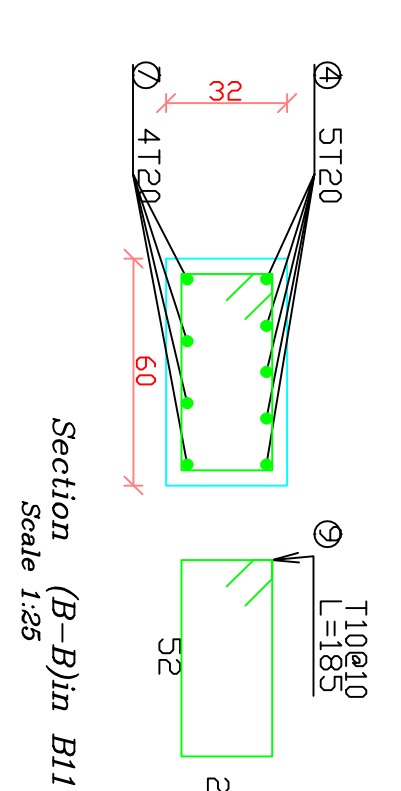
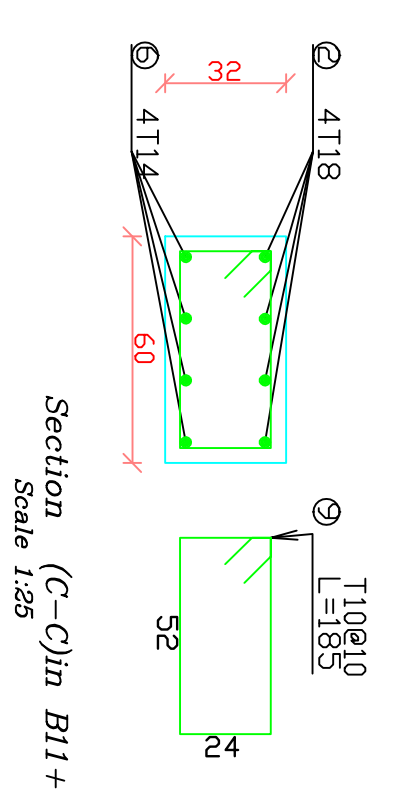
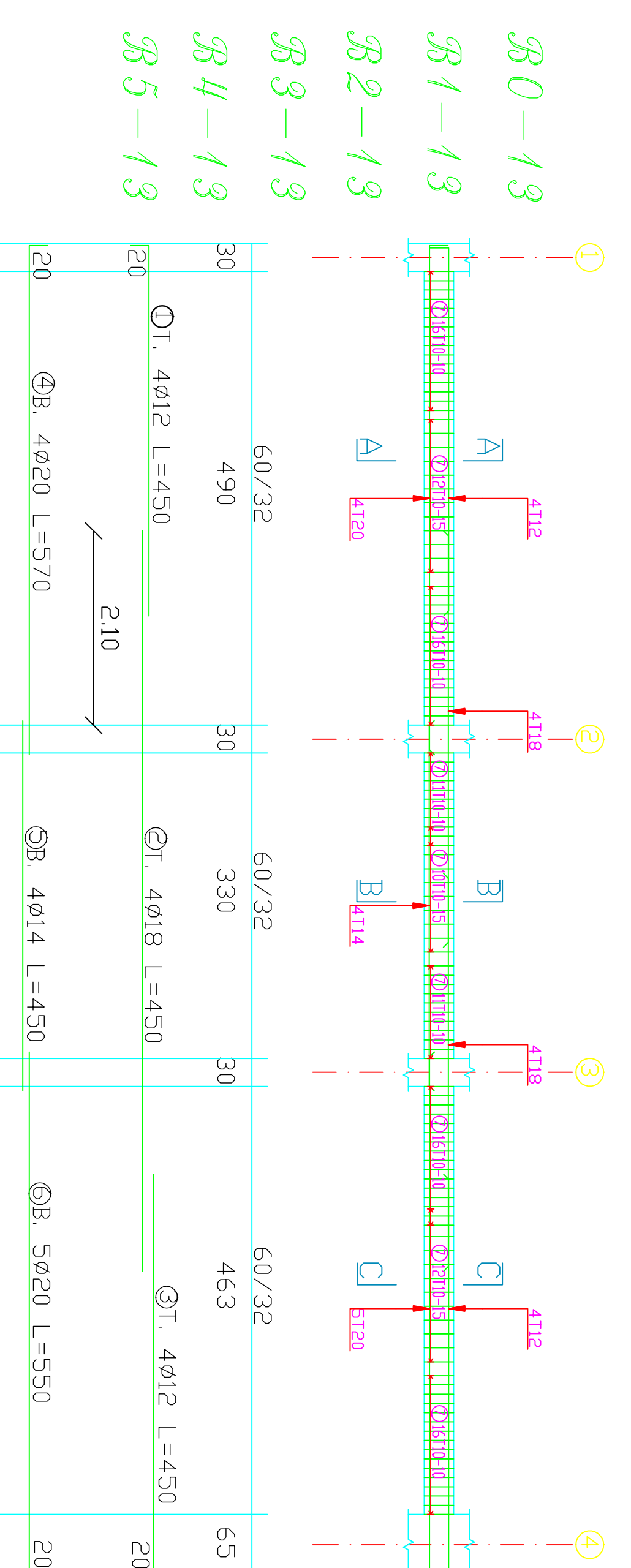
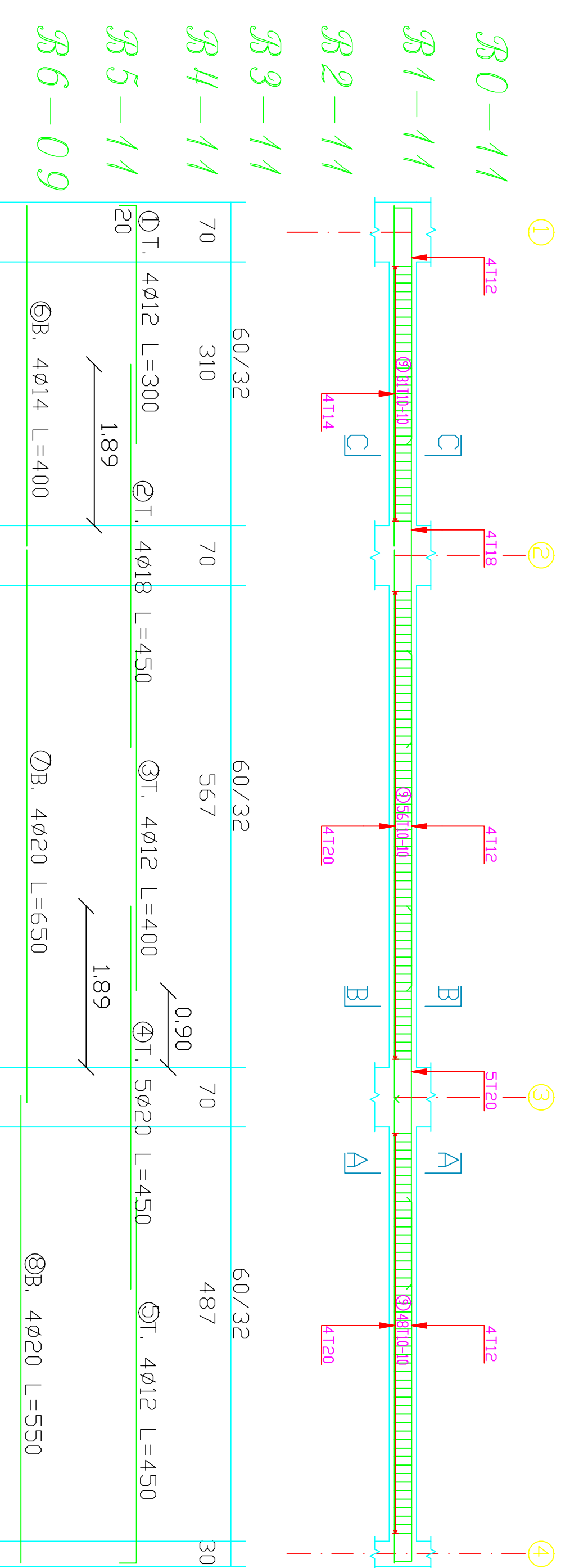
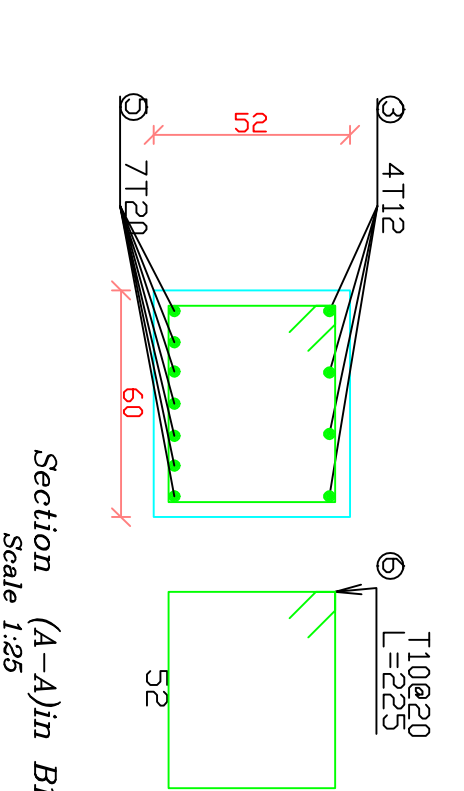
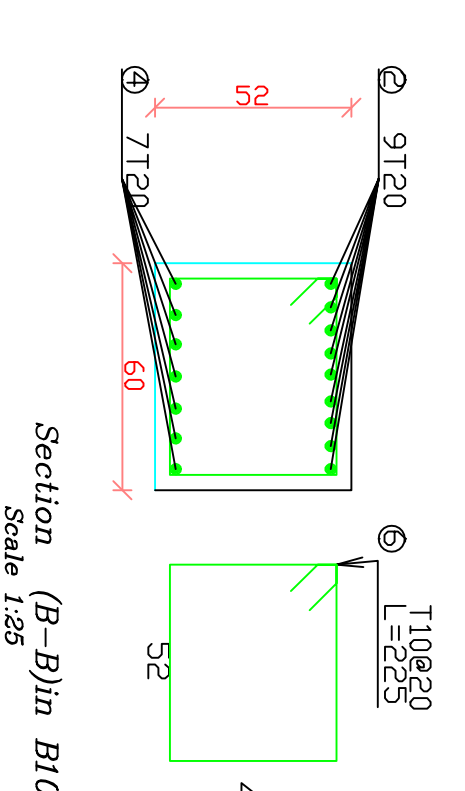
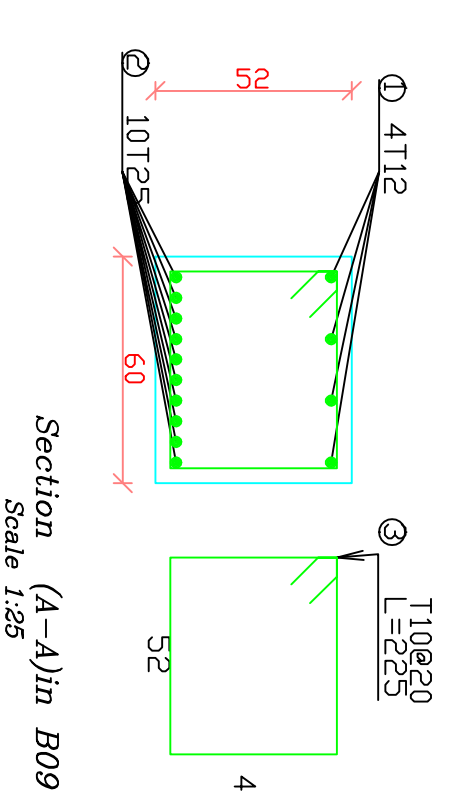
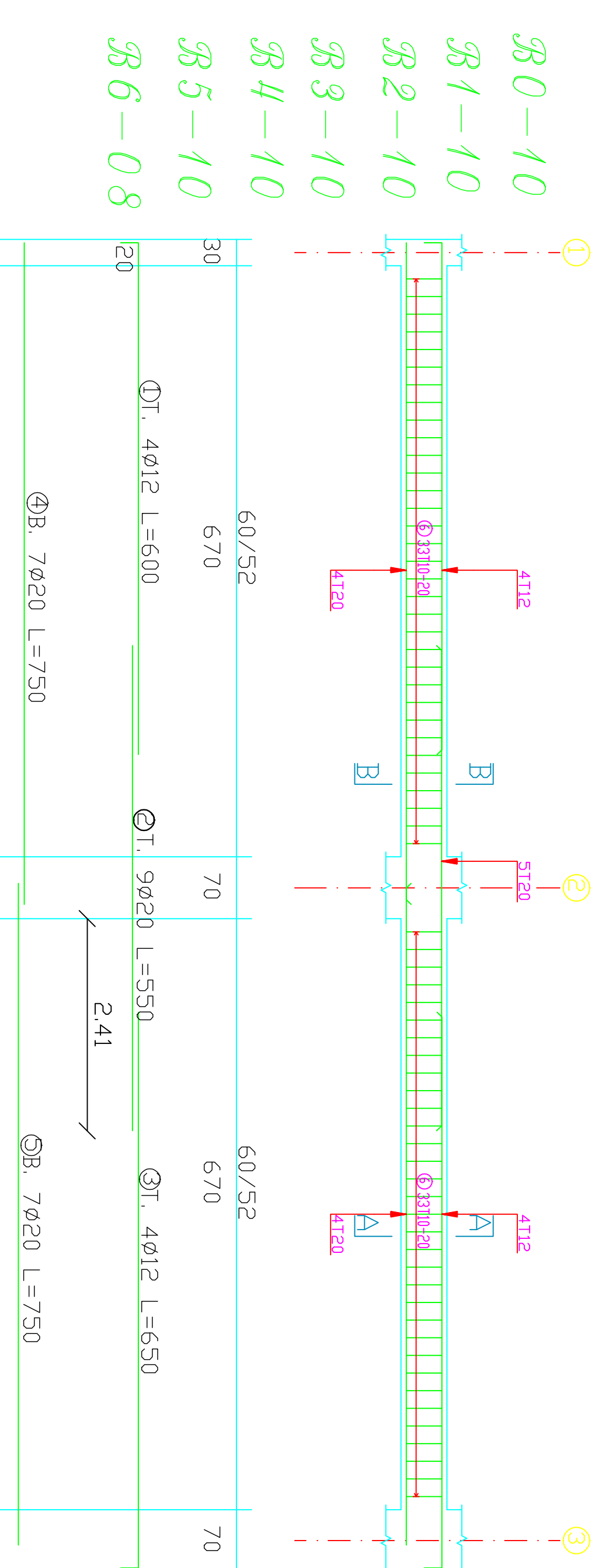
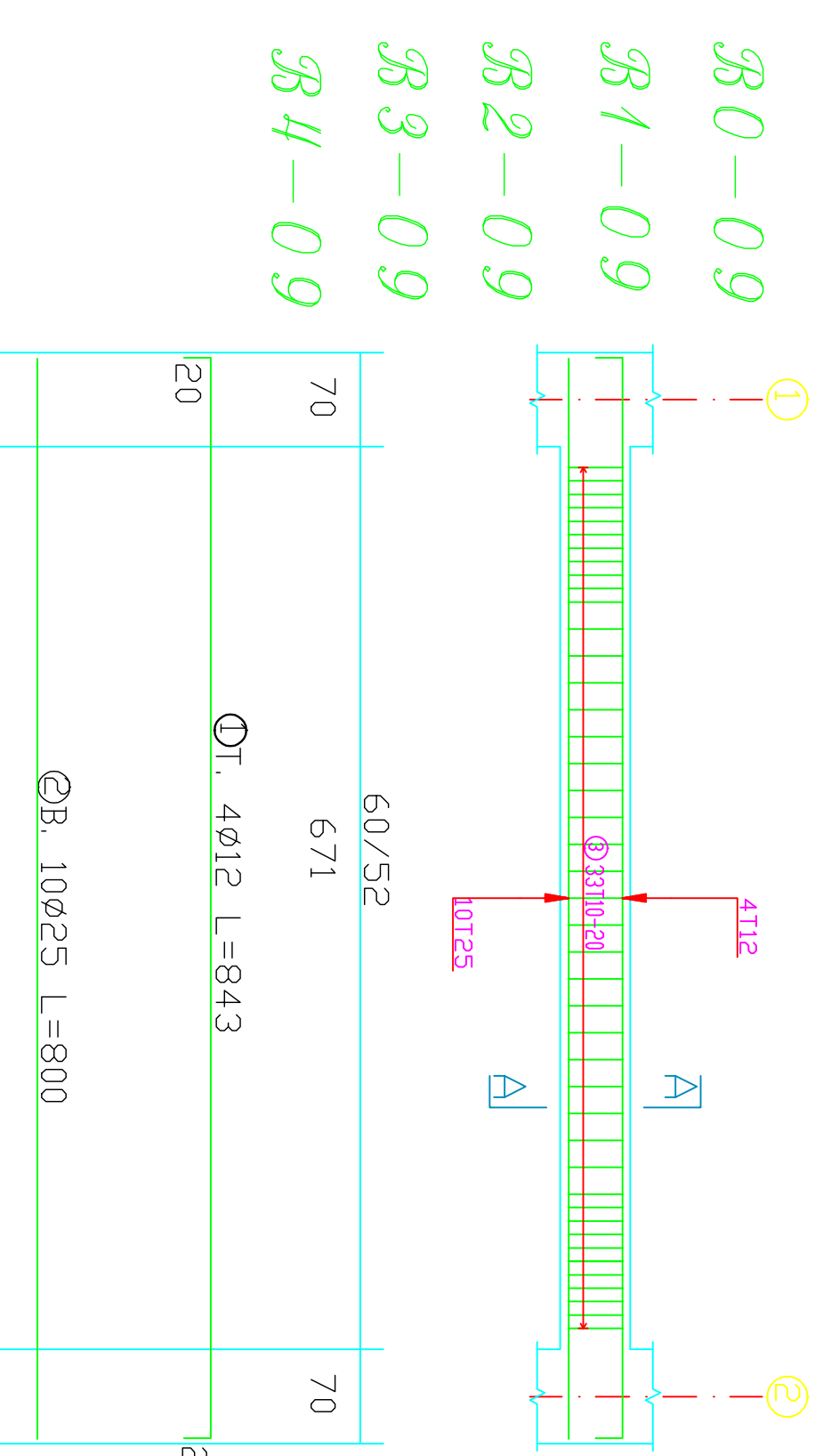
all dimensions are in meters]
 unless otherwise shown.
 all spot levels are in meters.

Palestine Polytechnic University
 Civil. Arch. Eng. Department
 Building Engineering
 Designed By:
 Israa Rabai
 Omar Khamayseh
 Issam Hassouna
 Abed Al-fatah Jawabreh
 Mohammad Abu Zalah
 Drawing Title :
 Beams Details
 Supervisor :
 Dr. Mohammad Taha

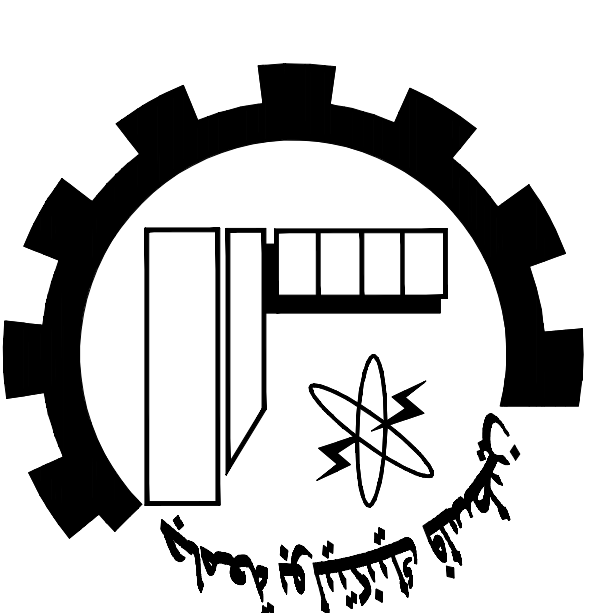
SCALE:

1/50

S36



GENERAL NOTES



NOTES:

all dimensions are in meters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Beams Details

Supervisor :

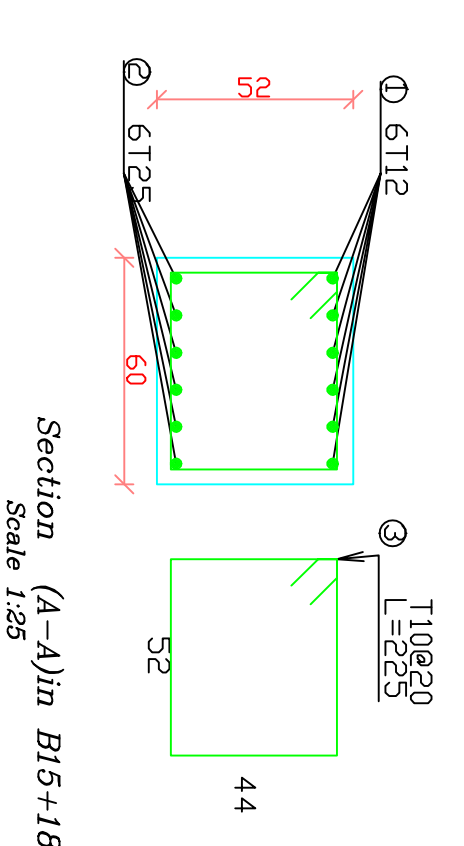
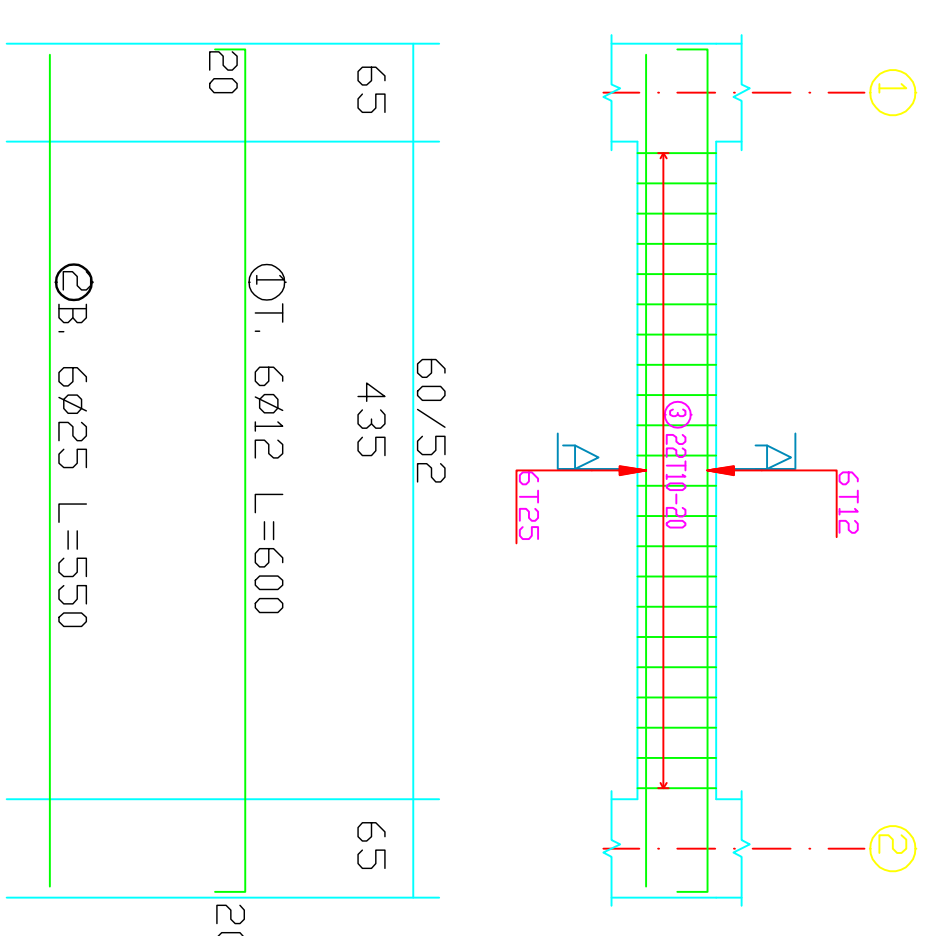
Dr. Mohammad Taha

SCALE:

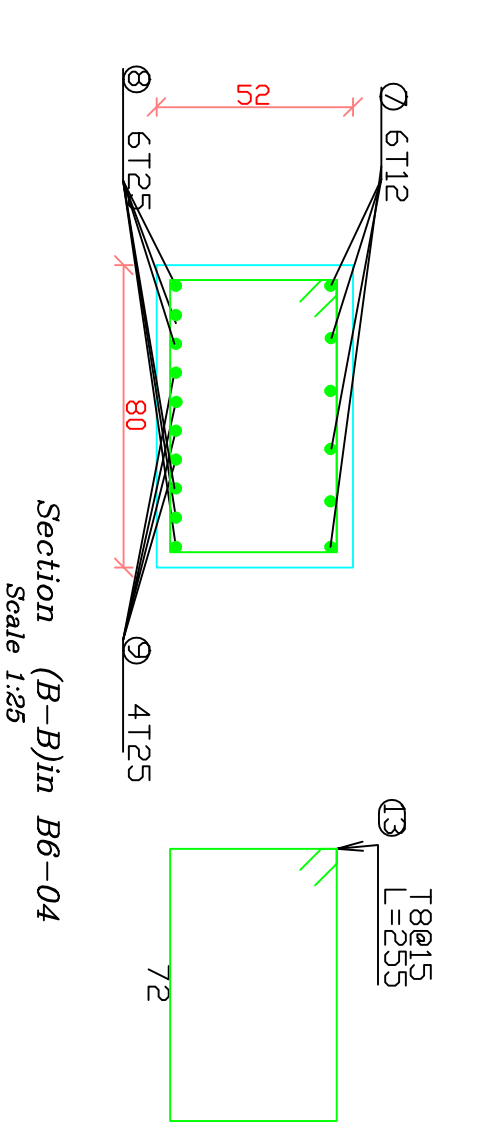
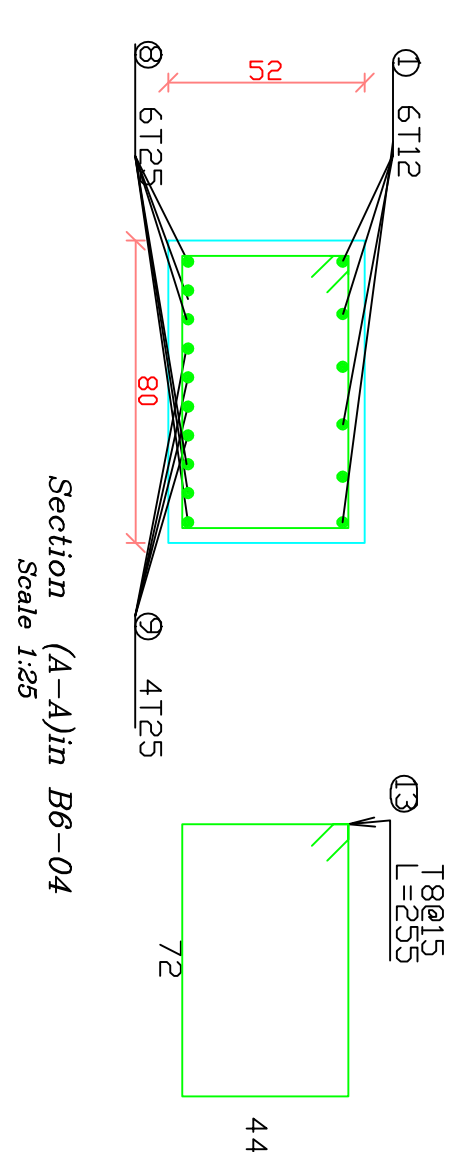
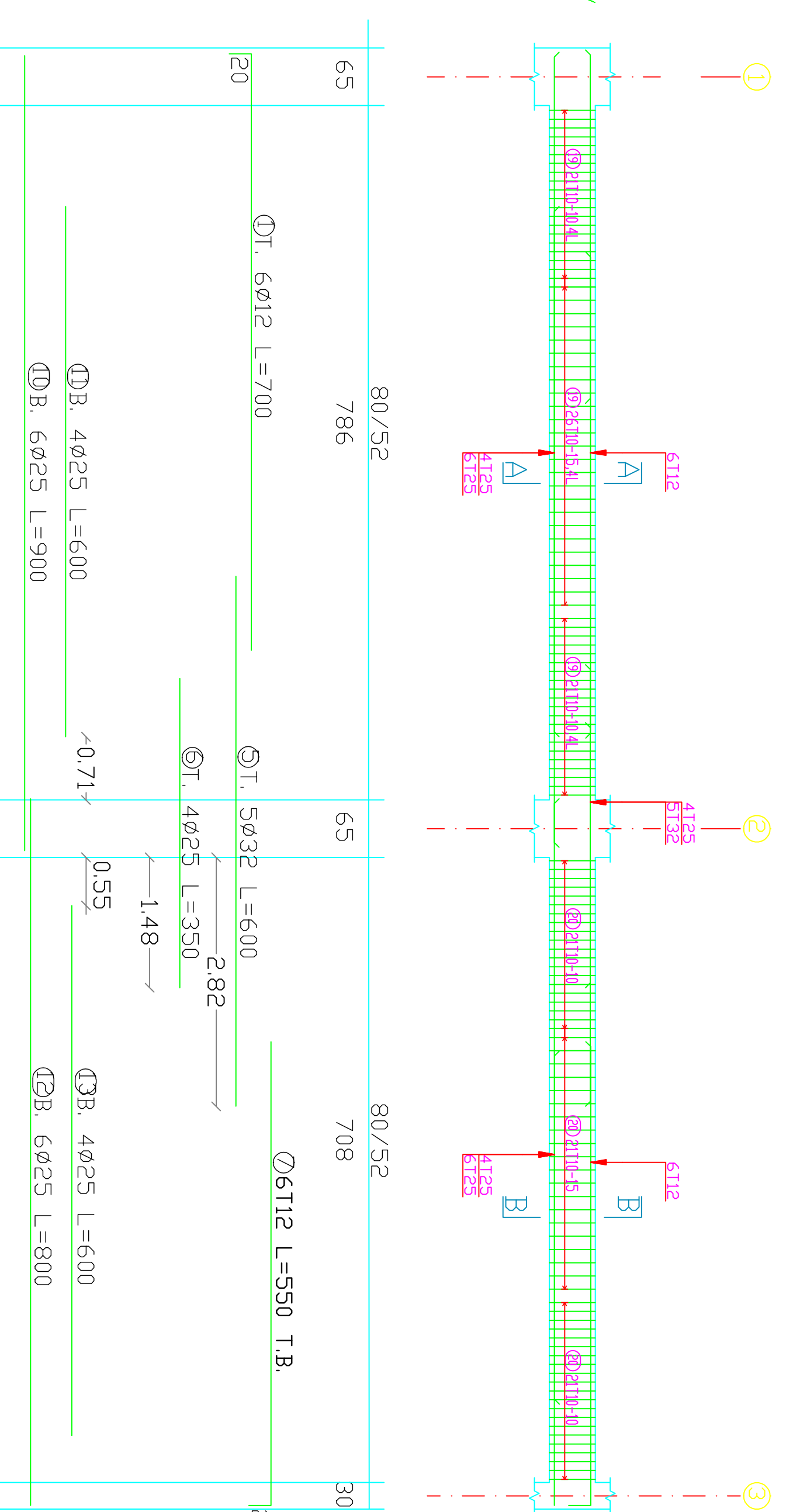
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537

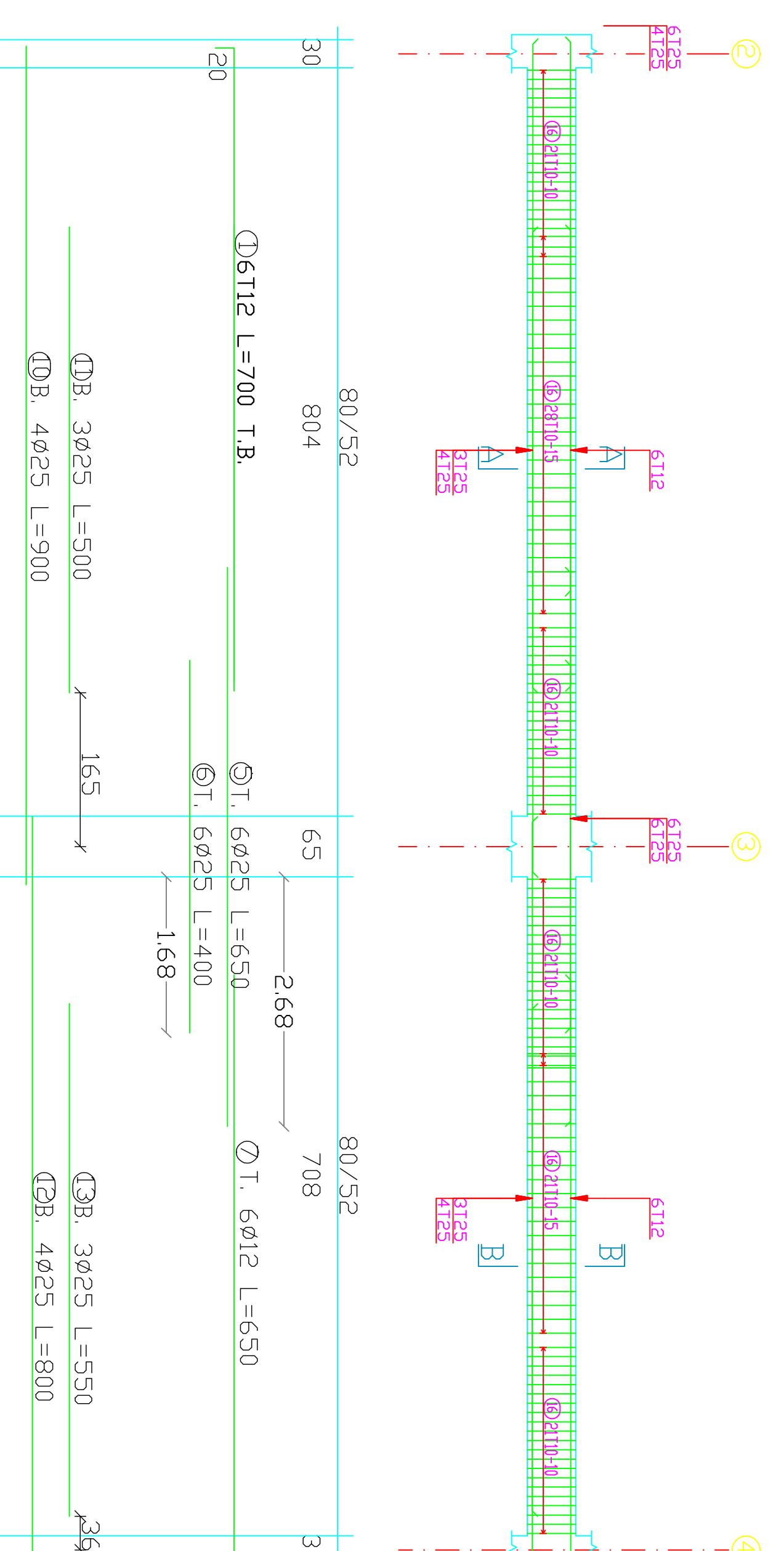
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83-18
84-18



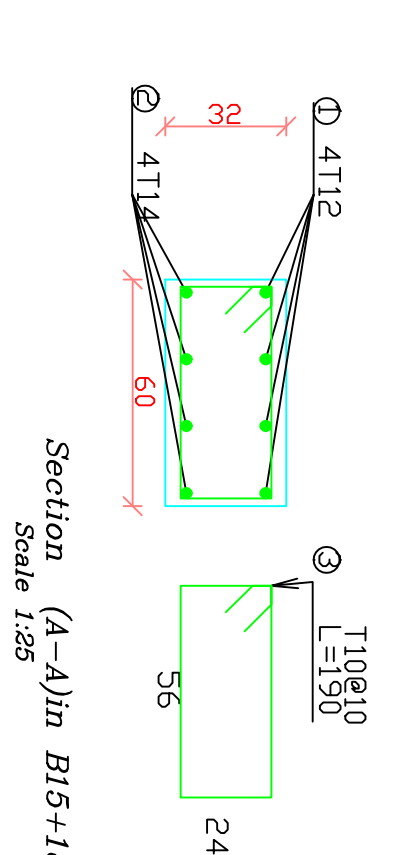
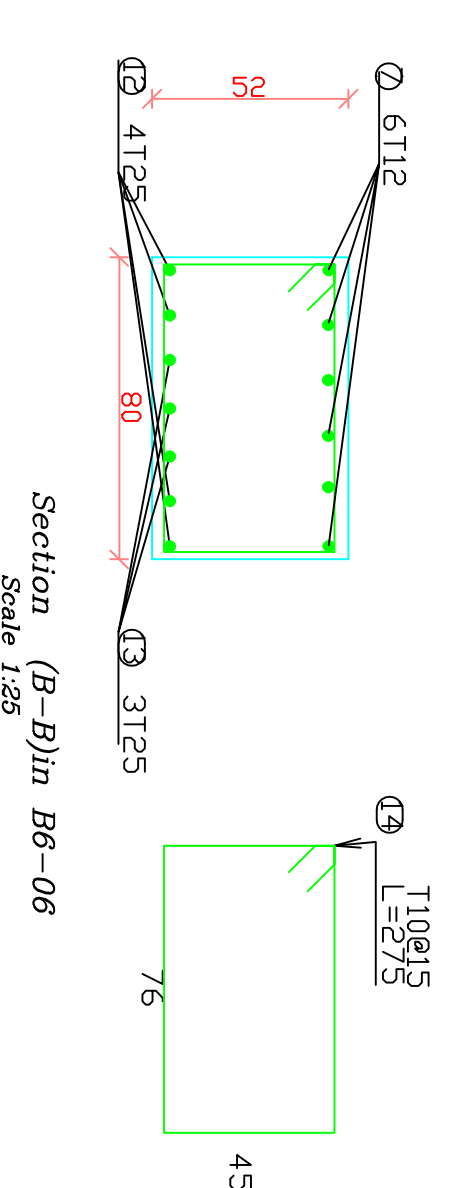
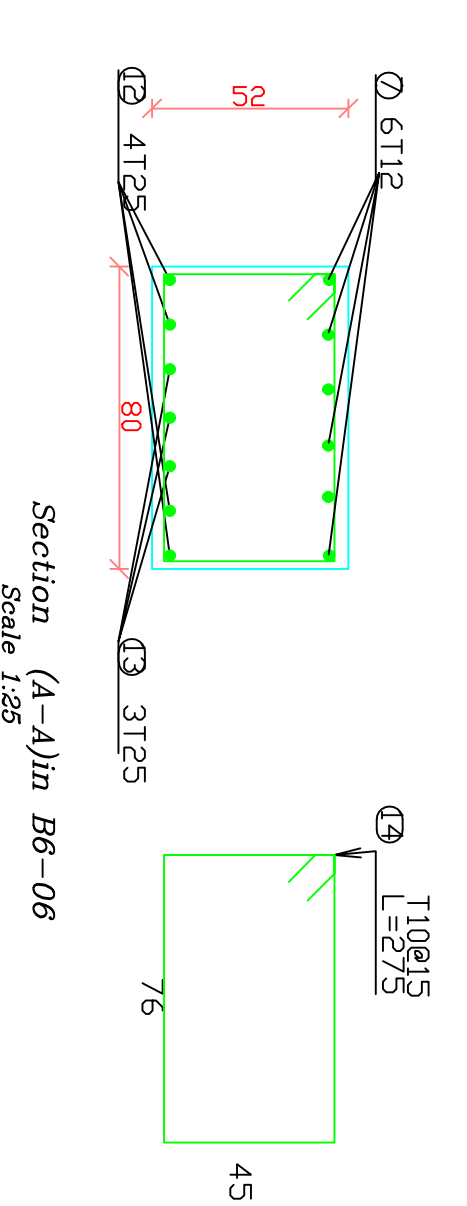
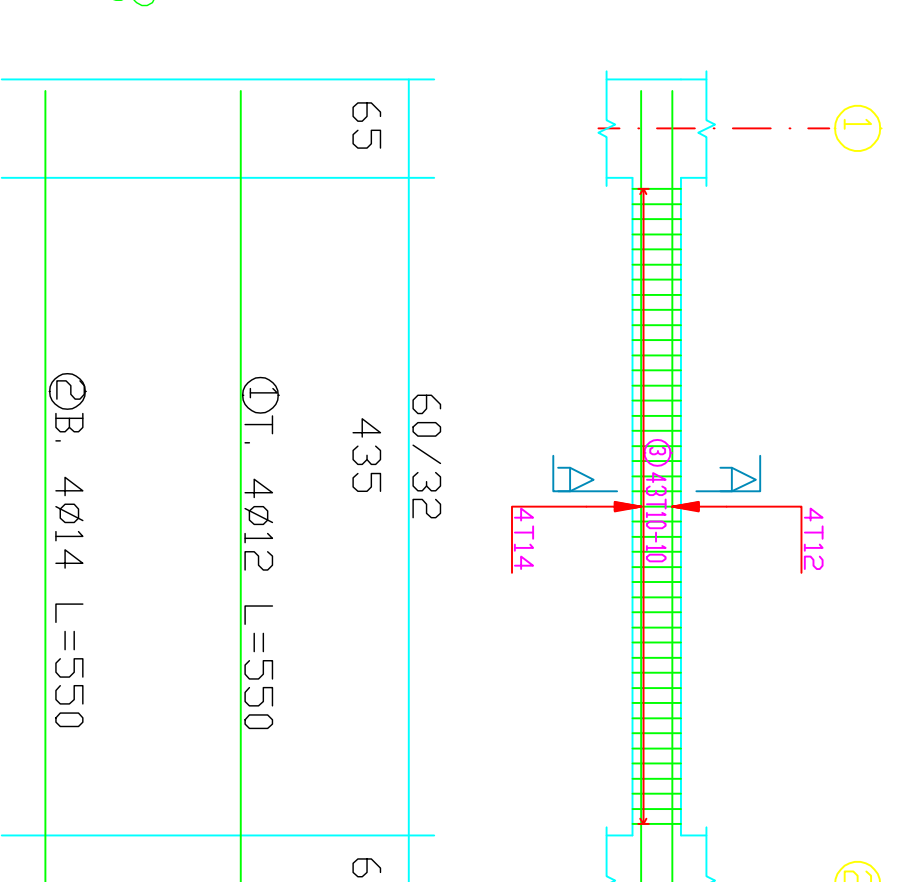
86-04



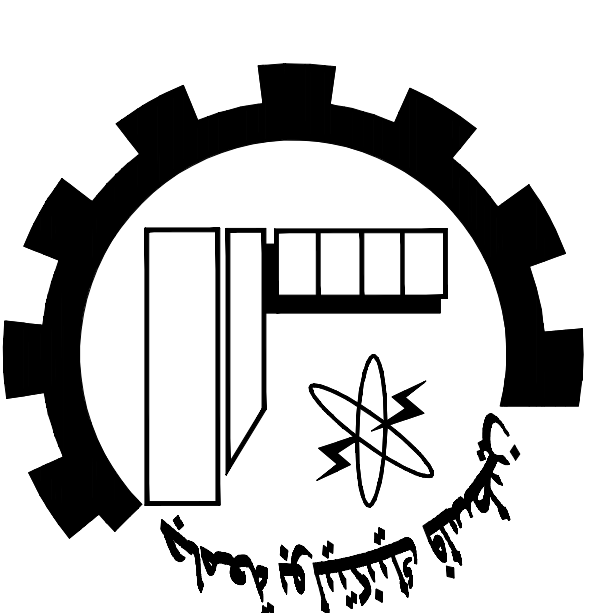
86-06



80-15
85-15
86-15
80-18
85-18
86-18



GENERAL NOTES



NOTES:

all dimensions are in meters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:
Israa Rabai

Omar Khamayseh
Issam Hassouna

Abded Al-fatah Jawabreh
Mohammad Abu Zalath

Drawing Title :

Beams Details

Supervisor :

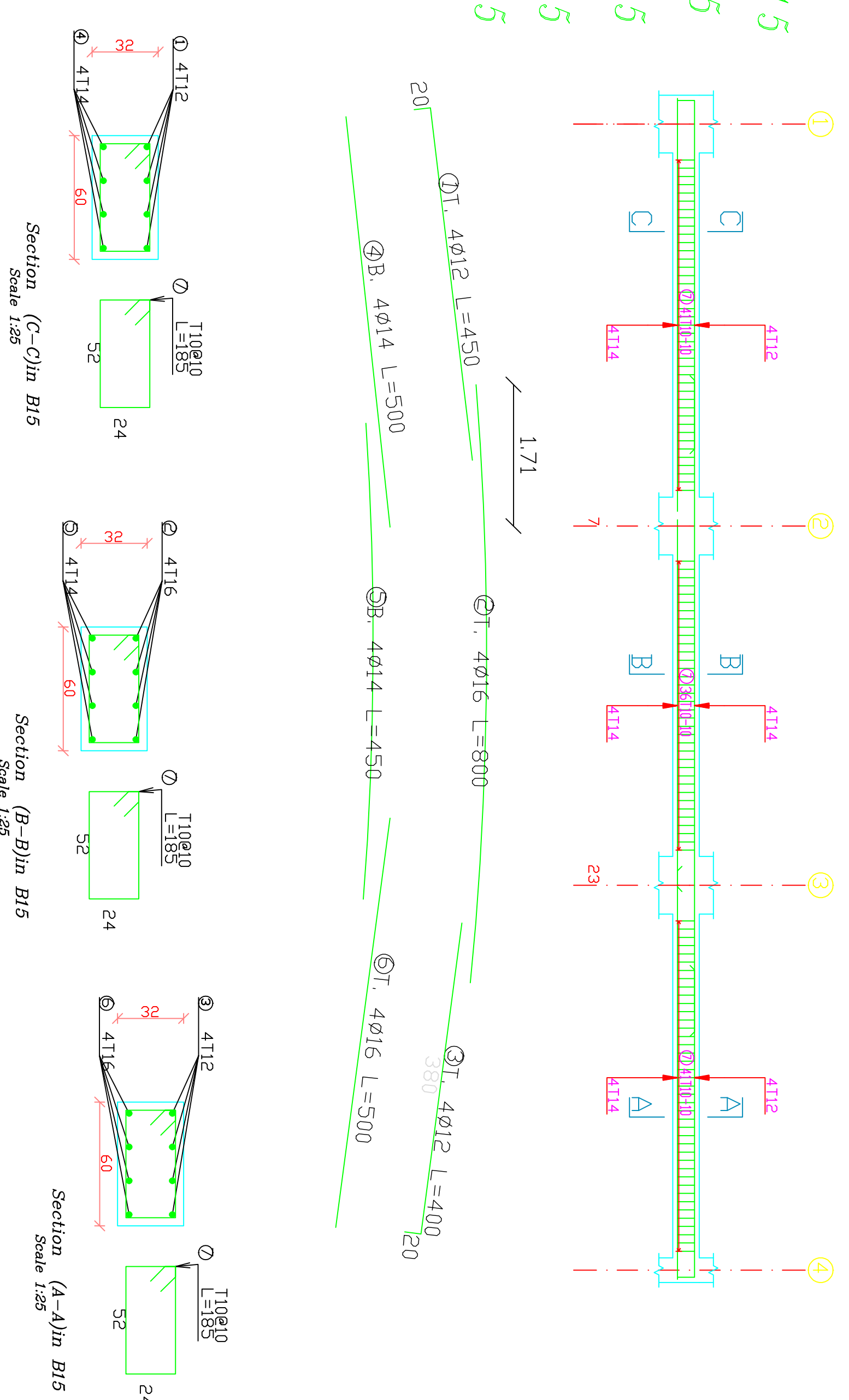
Dr. Mohammad Taha

SCALE:

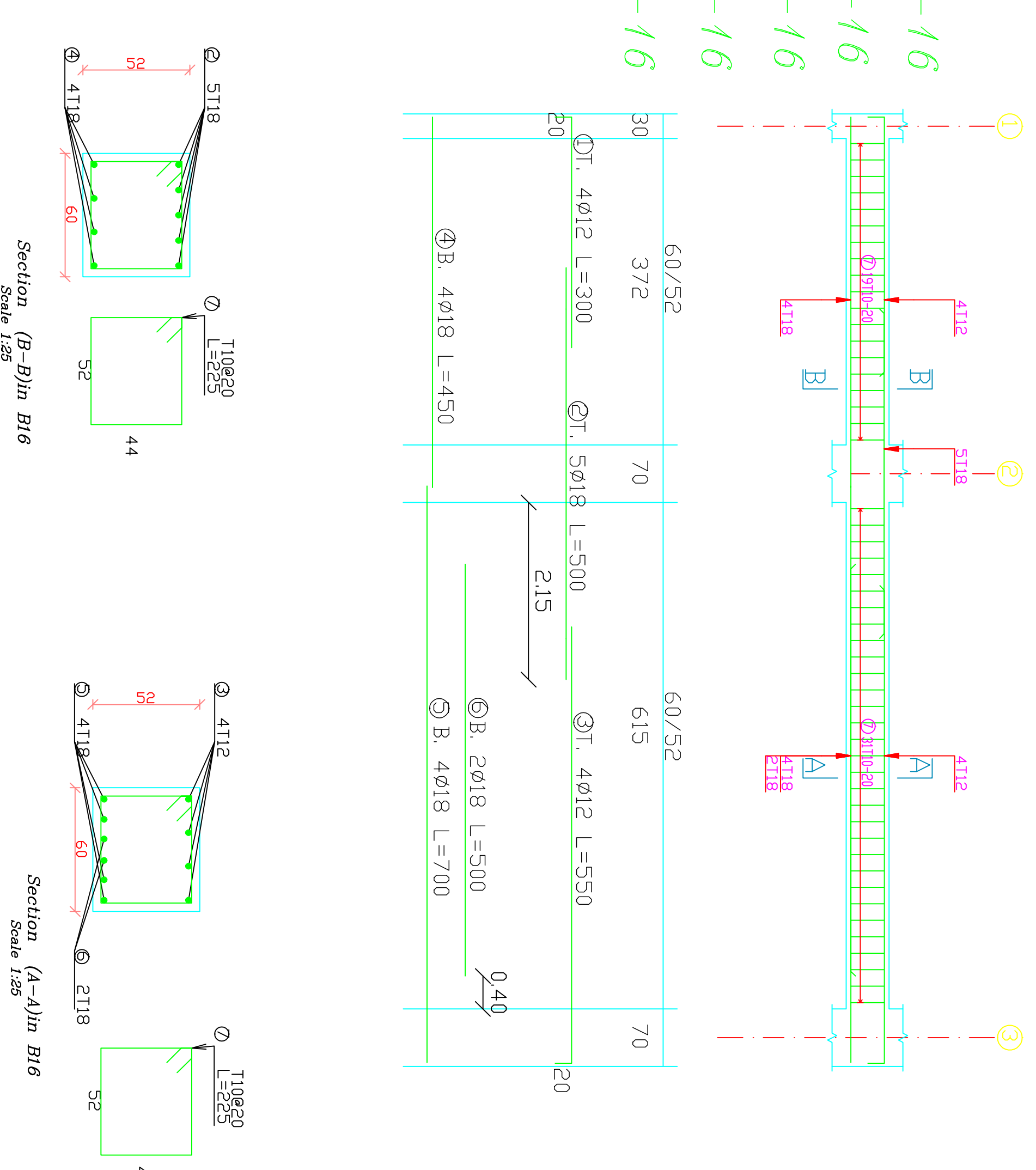
1/50

S38

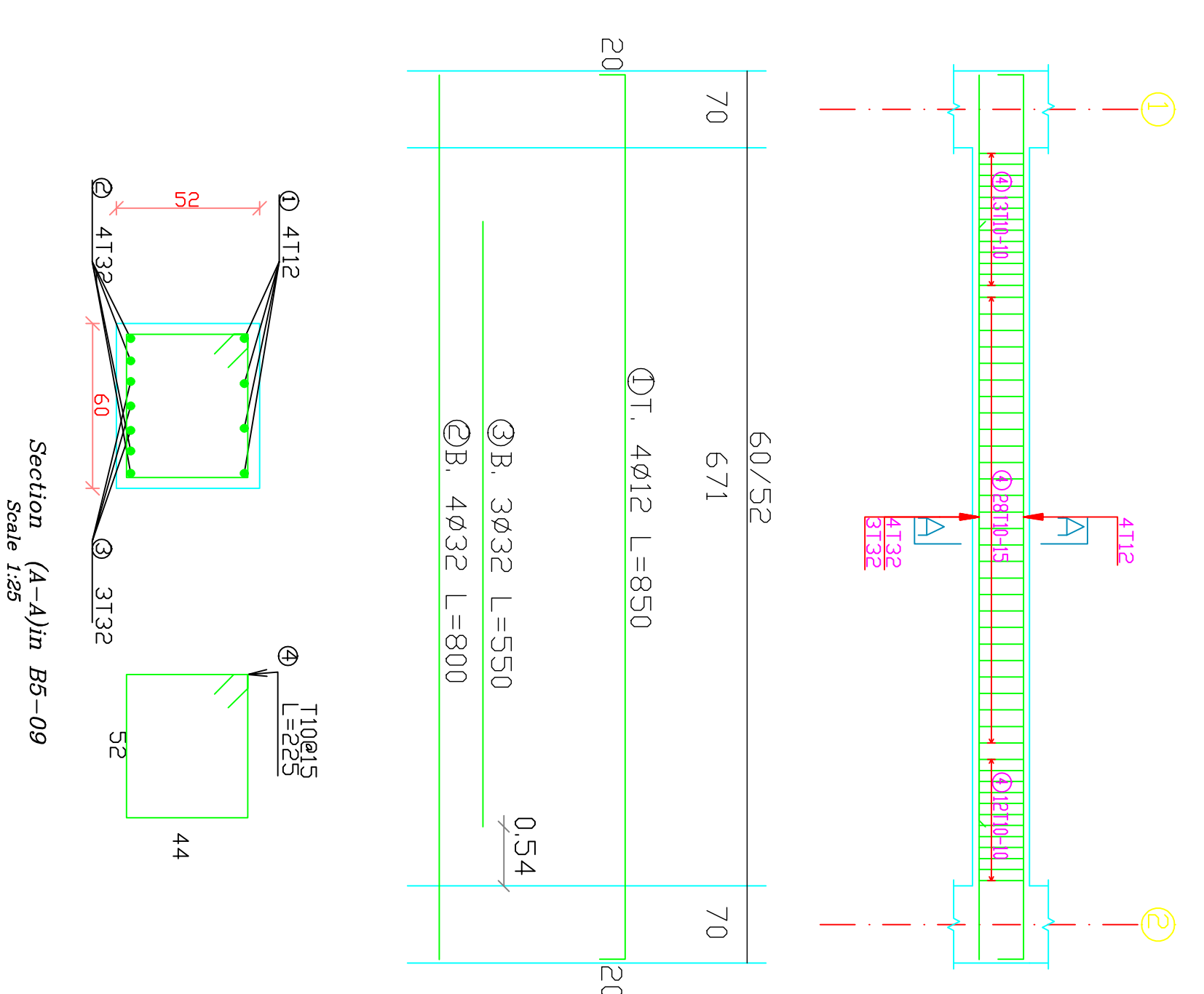
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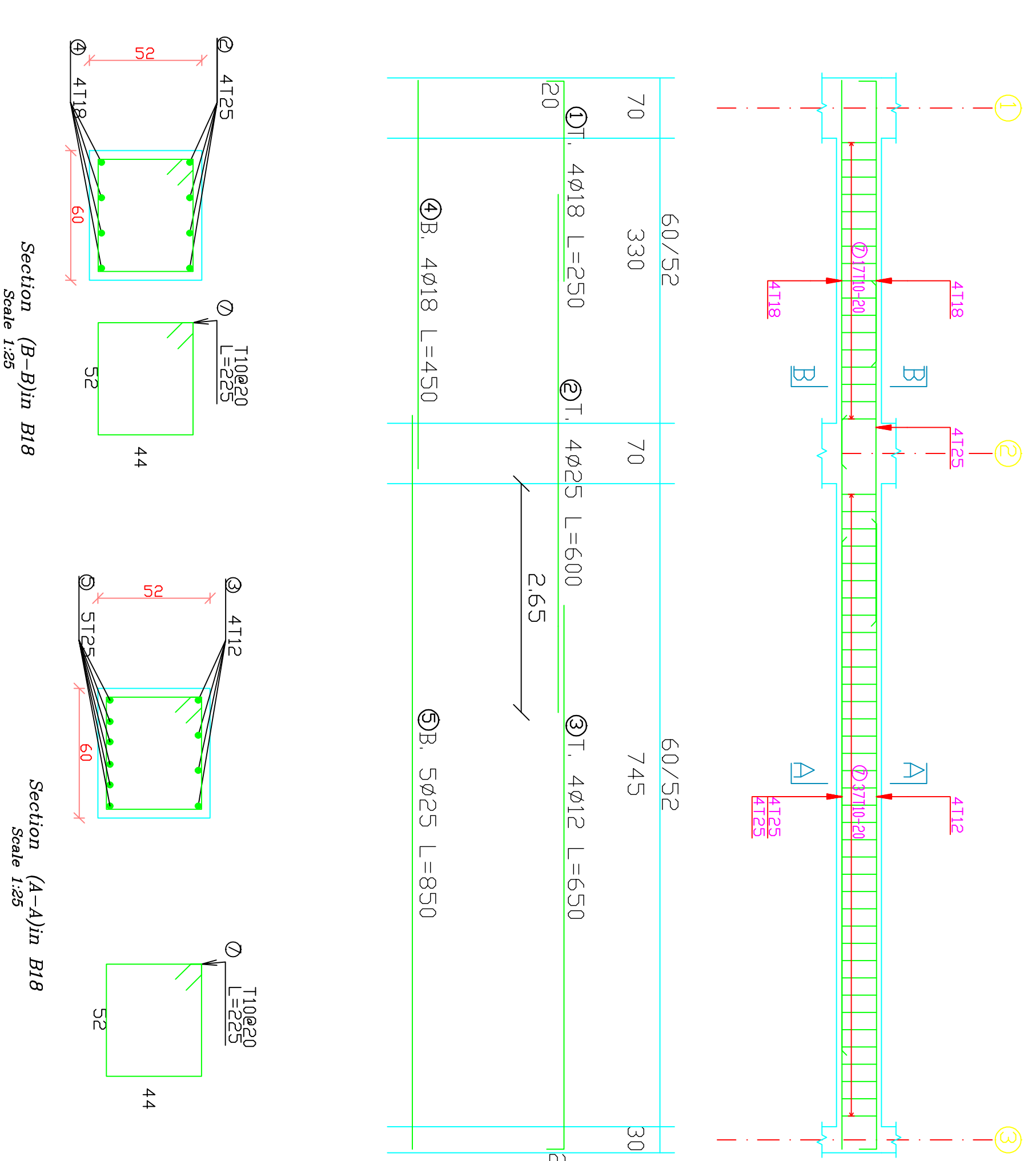
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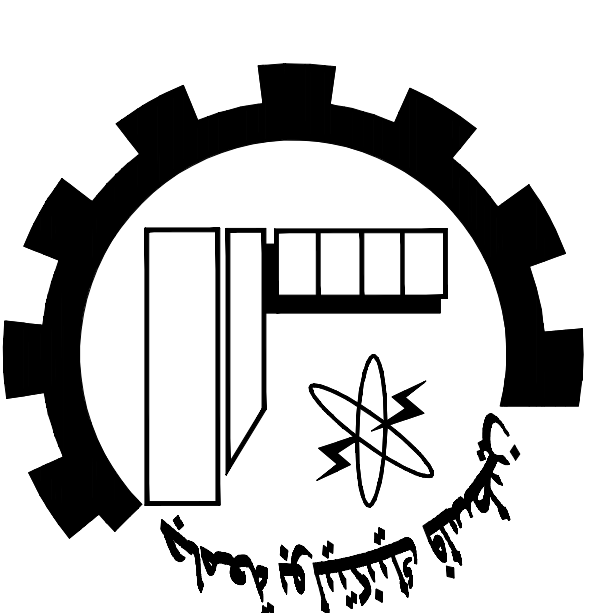
35-09



30-18
31-18
32-18
33-18
34-18



GENERAL NOTES



NOTES:

all dimensions are in meters]
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all spot levels are in meters.

Palestine Polytechnic University
Civil. Engr. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Beams Details

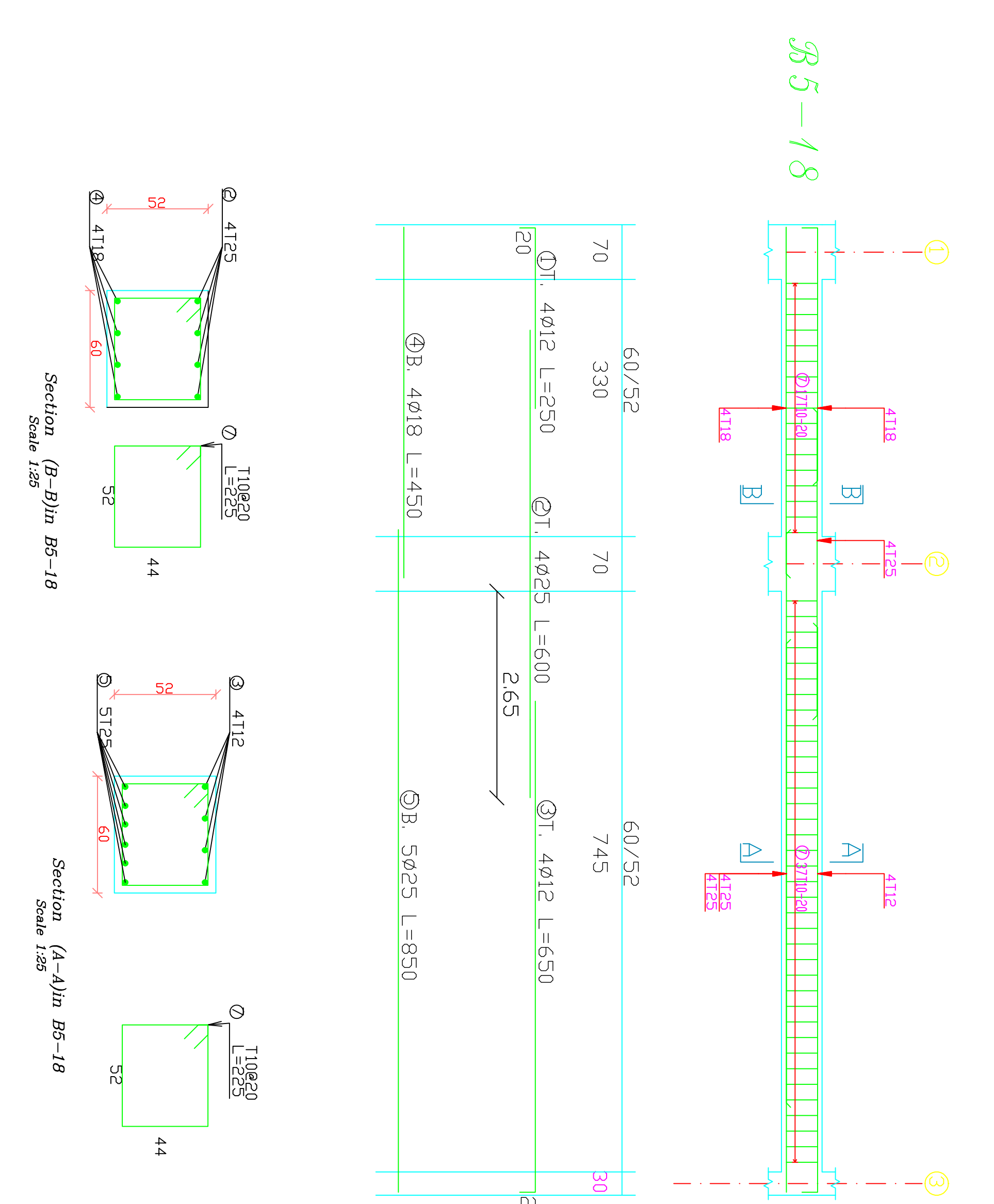
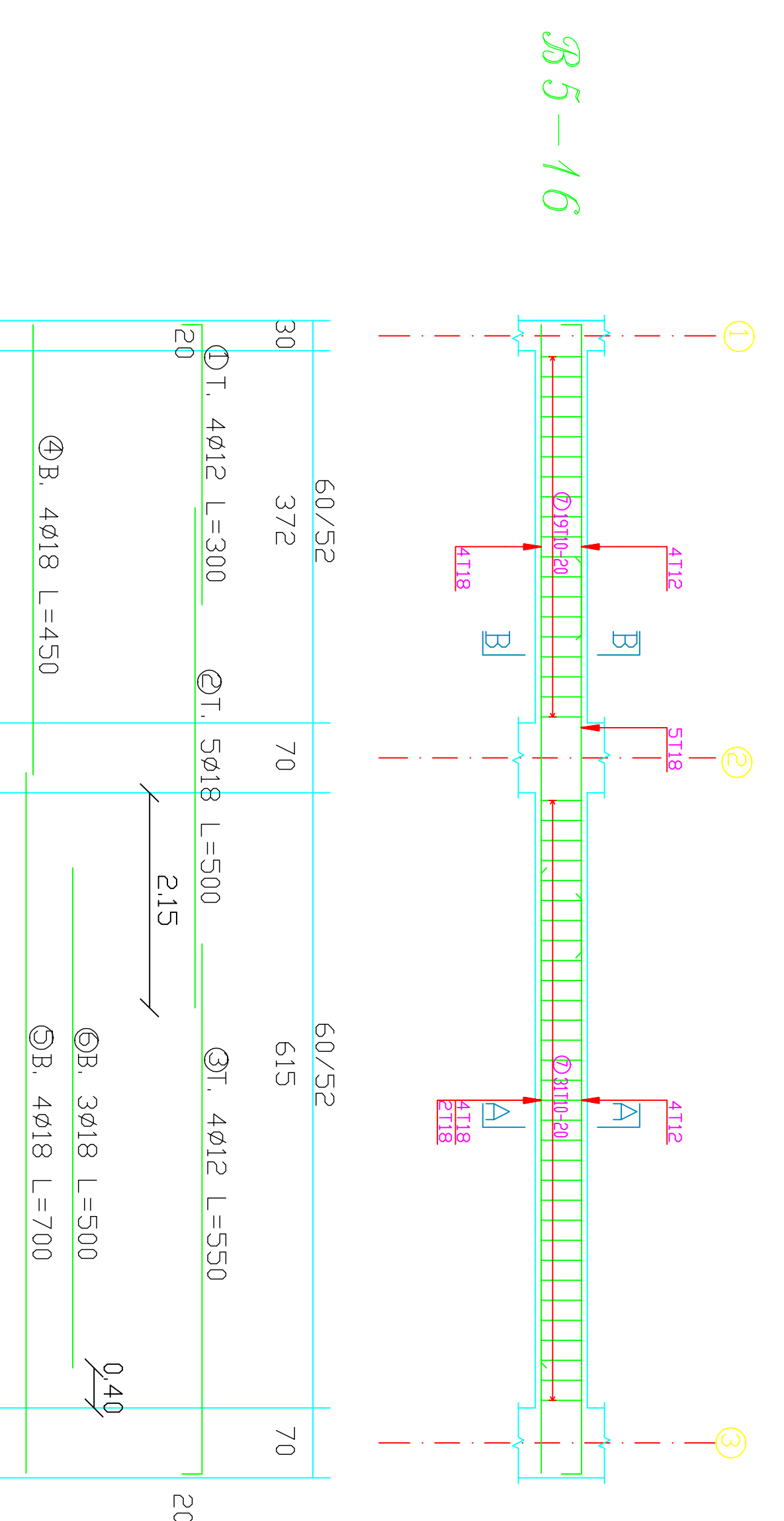
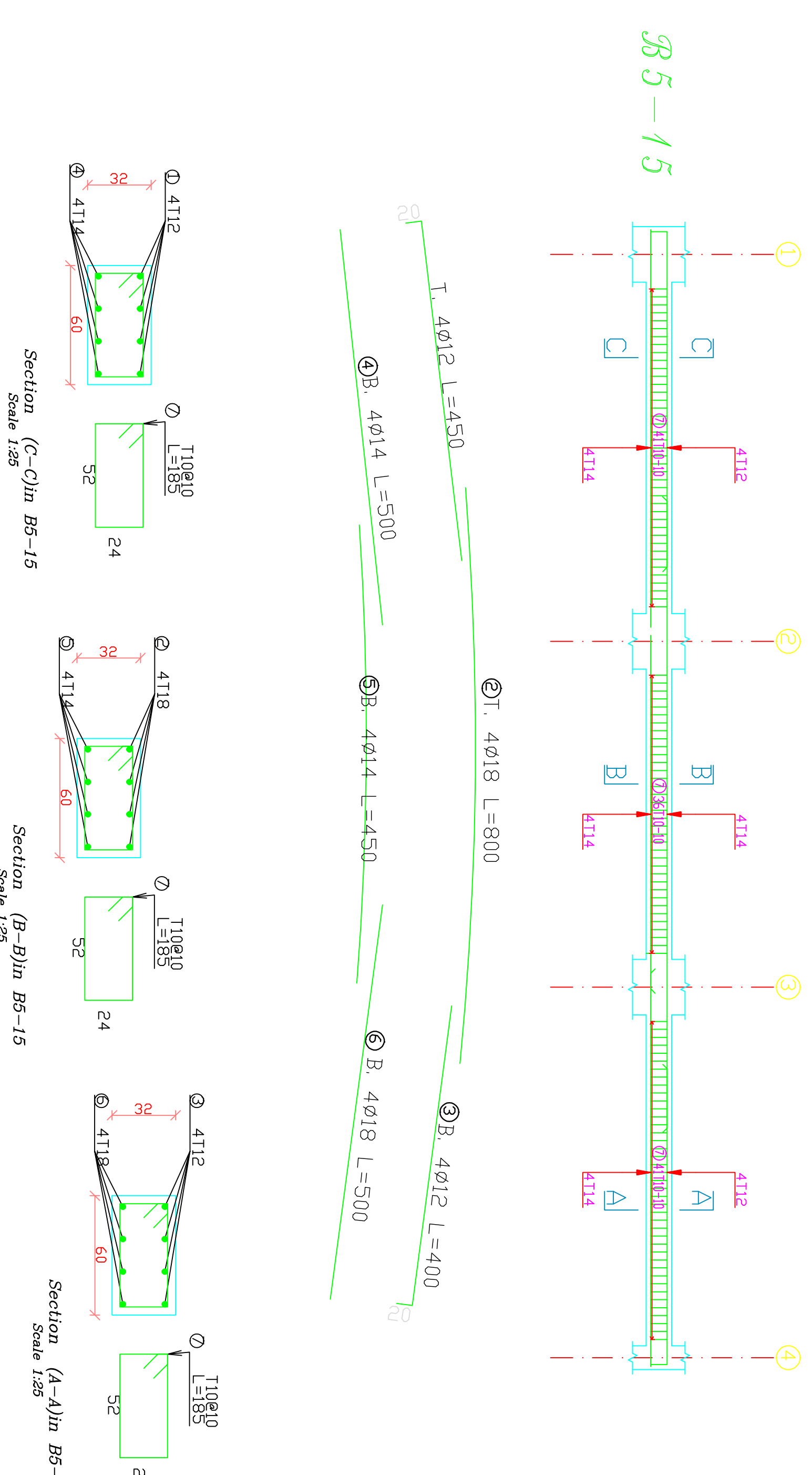
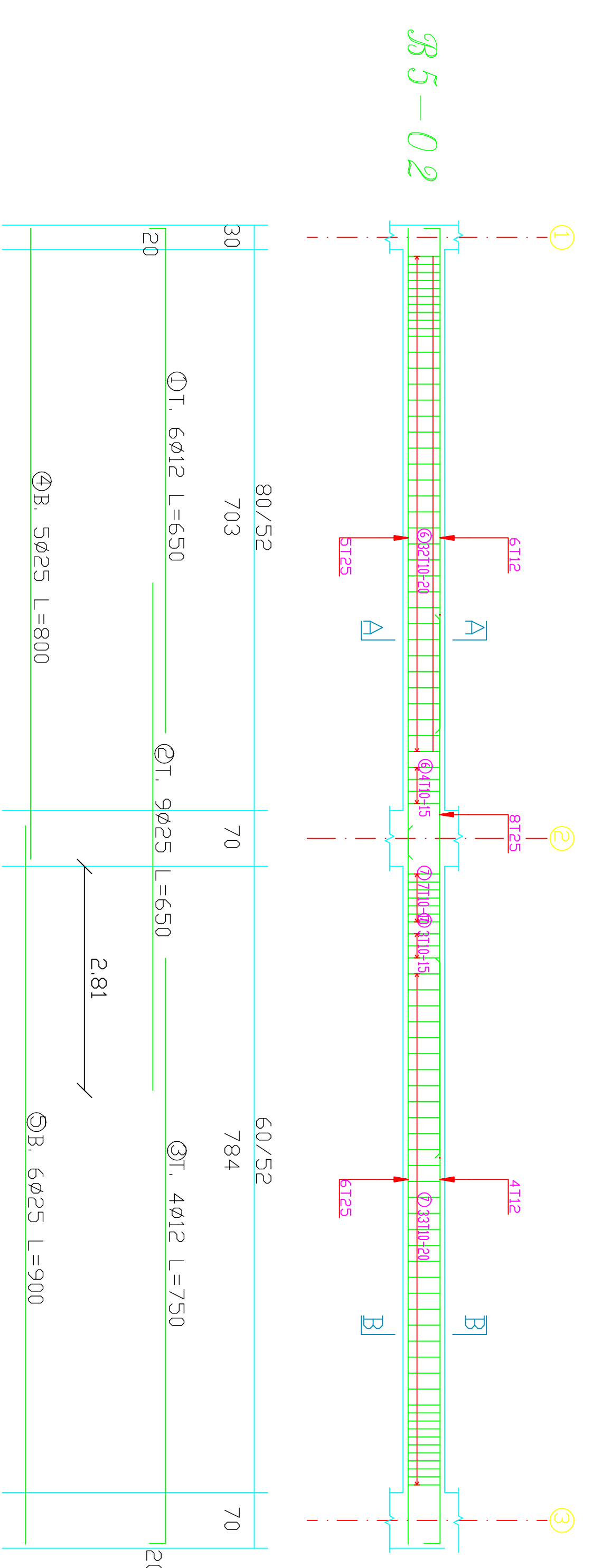
Supervisor :

Dr. Mohammad Taha

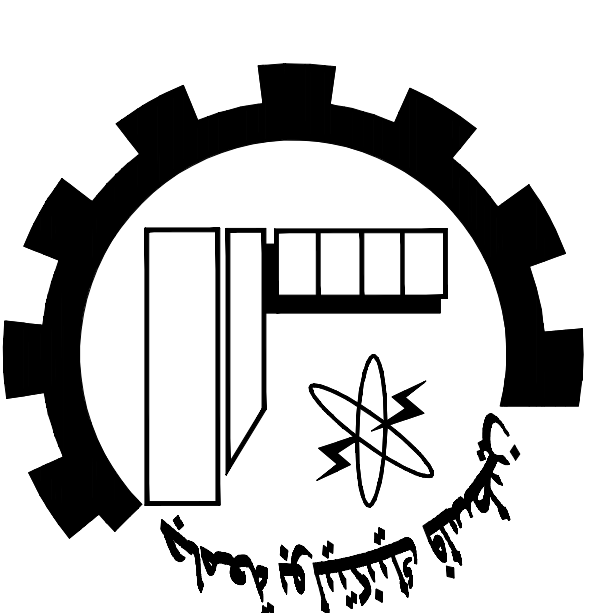
SCALE:

1/50

S39



GENERAL NOTES



NOTES:

all dimensions are in meters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:
Israa Rabai

Omar Khamayseh
Issam Hassouna

Abded Al-fatrah Jawabreh
Mohammad Abu Zalah

Drawing Title :

Beams Details

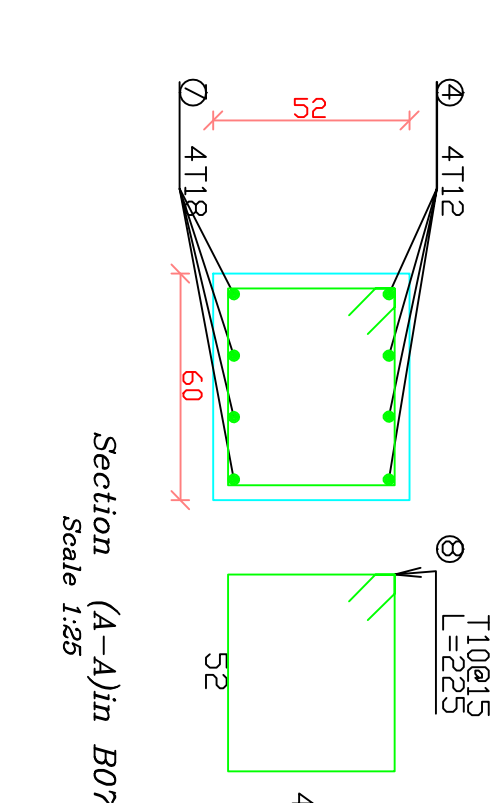
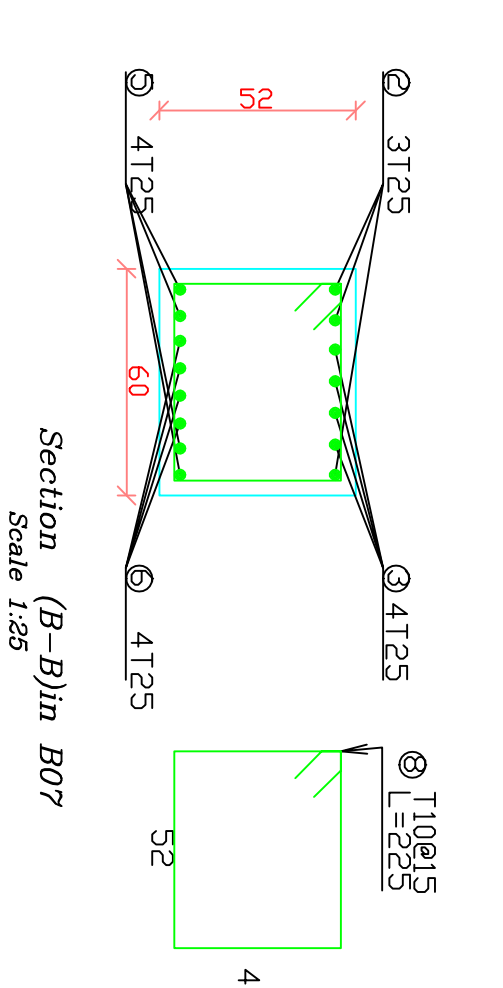
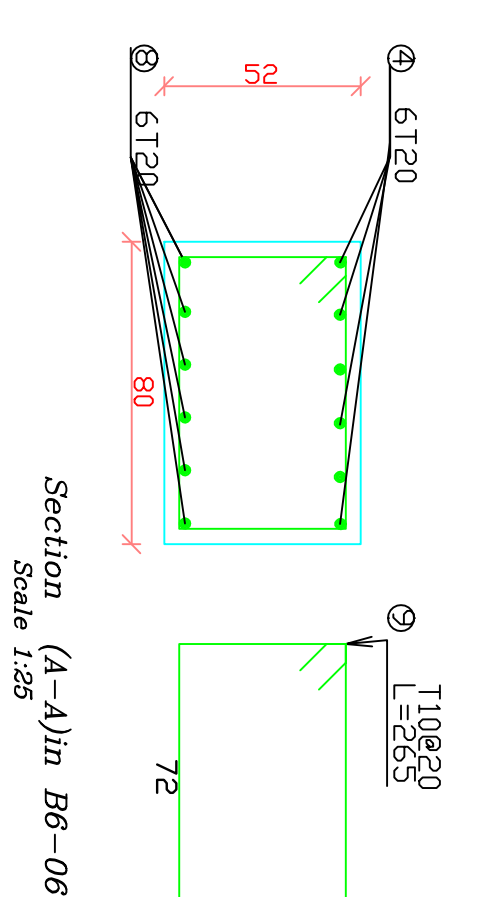
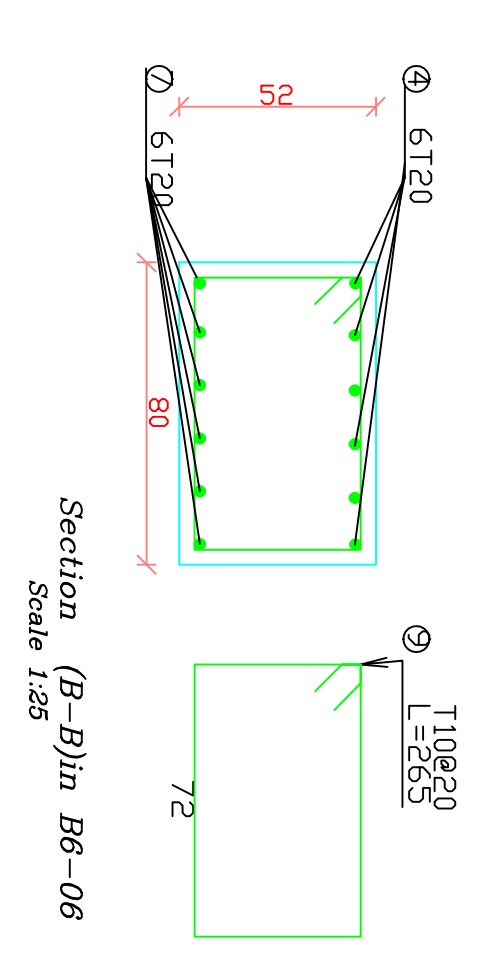
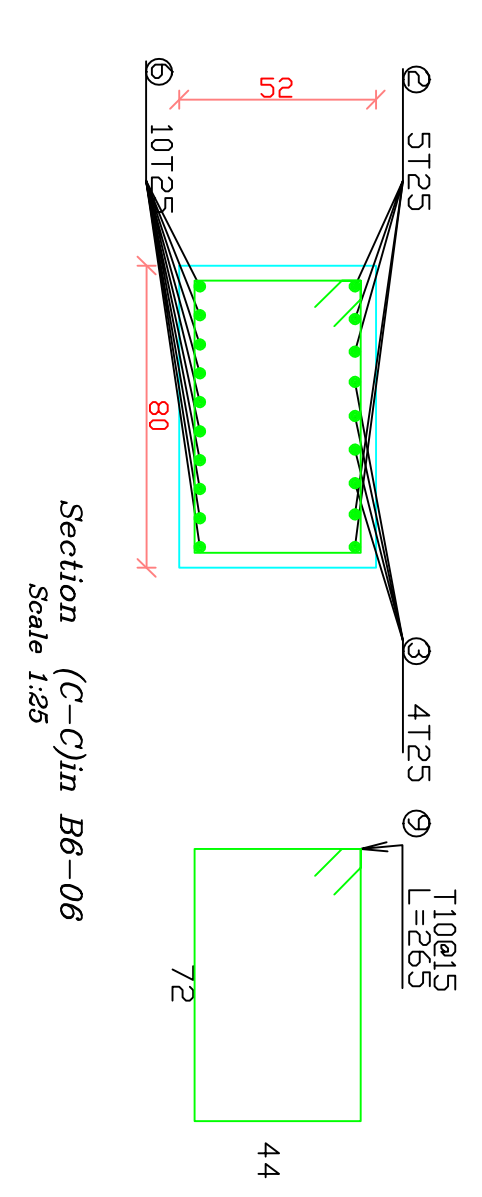
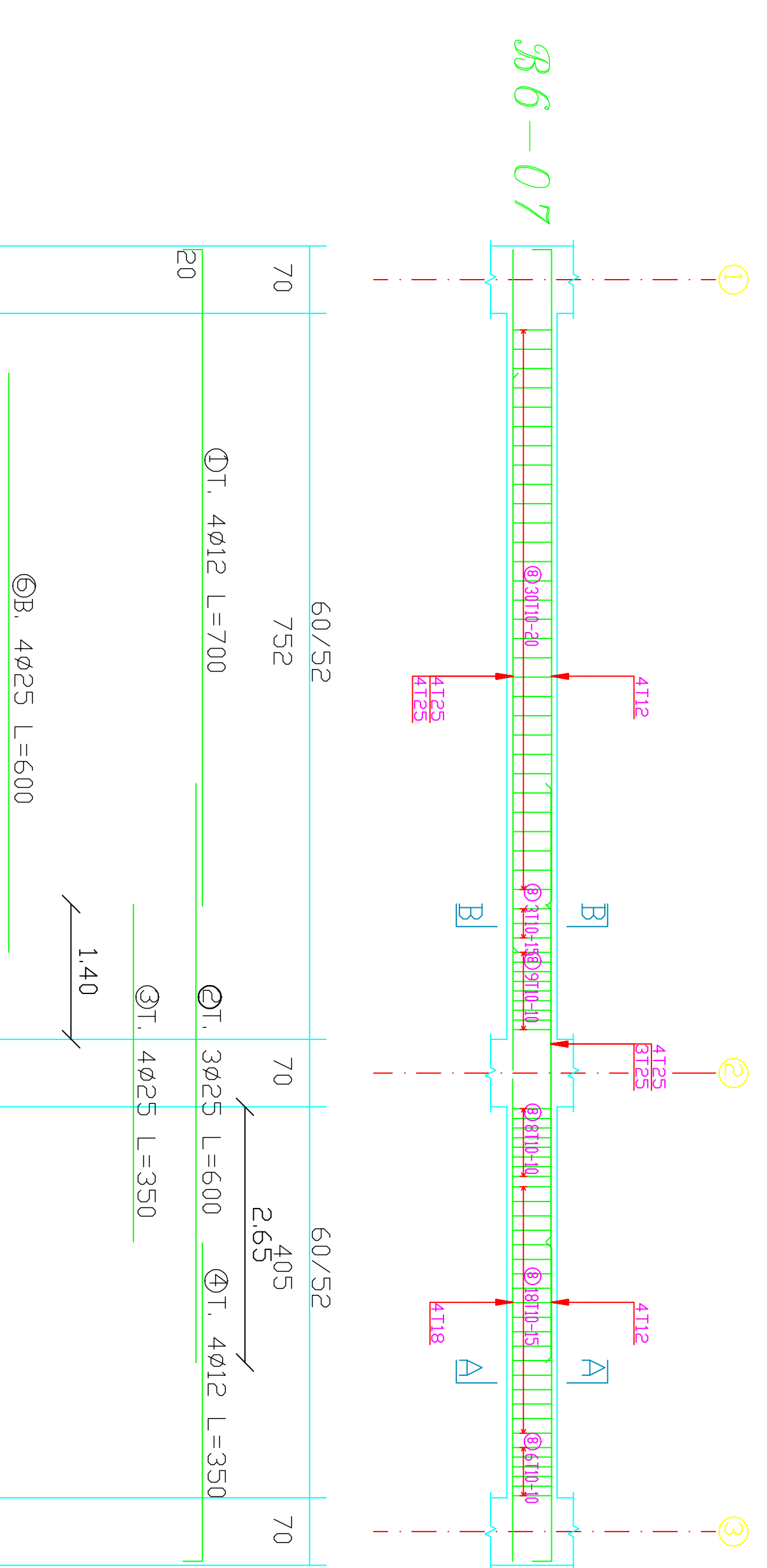
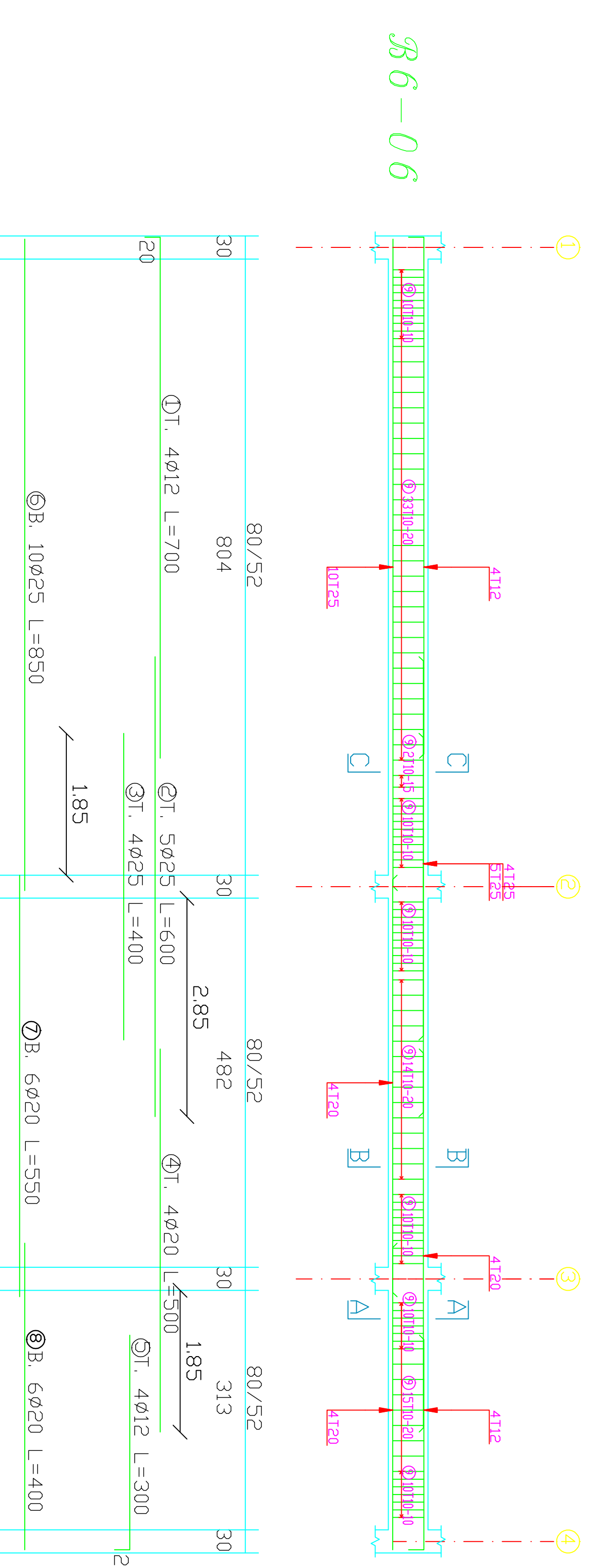
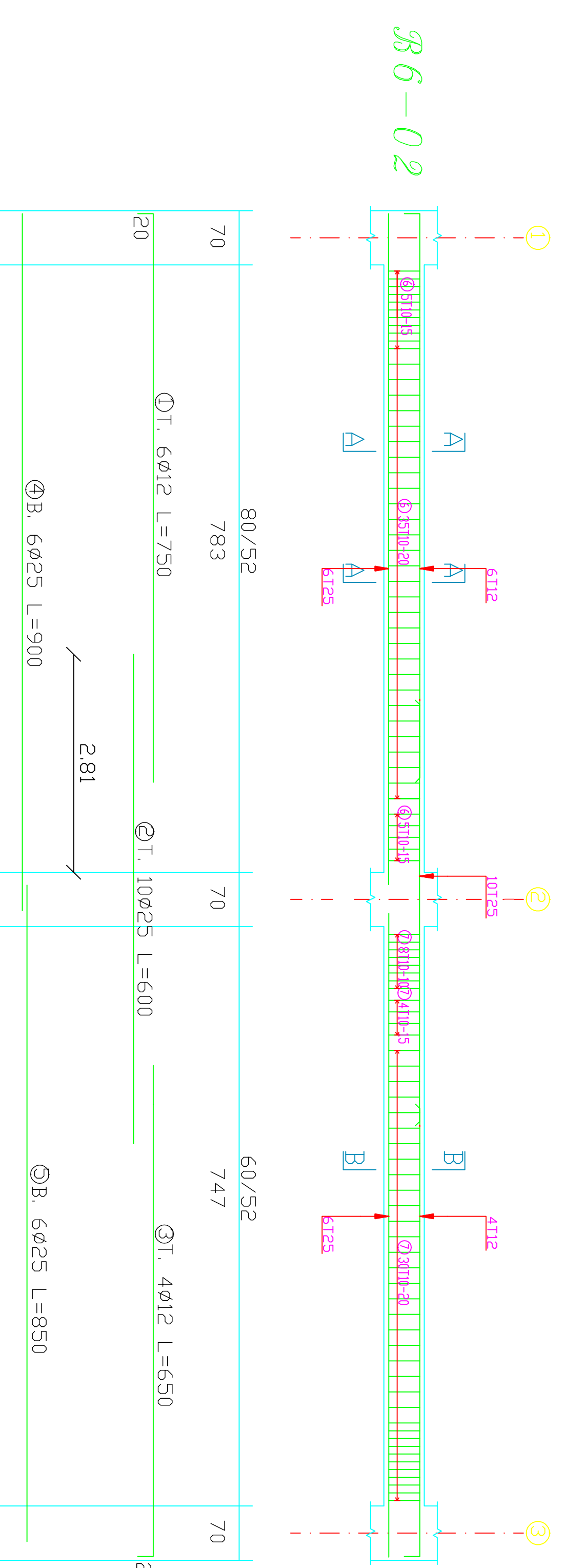
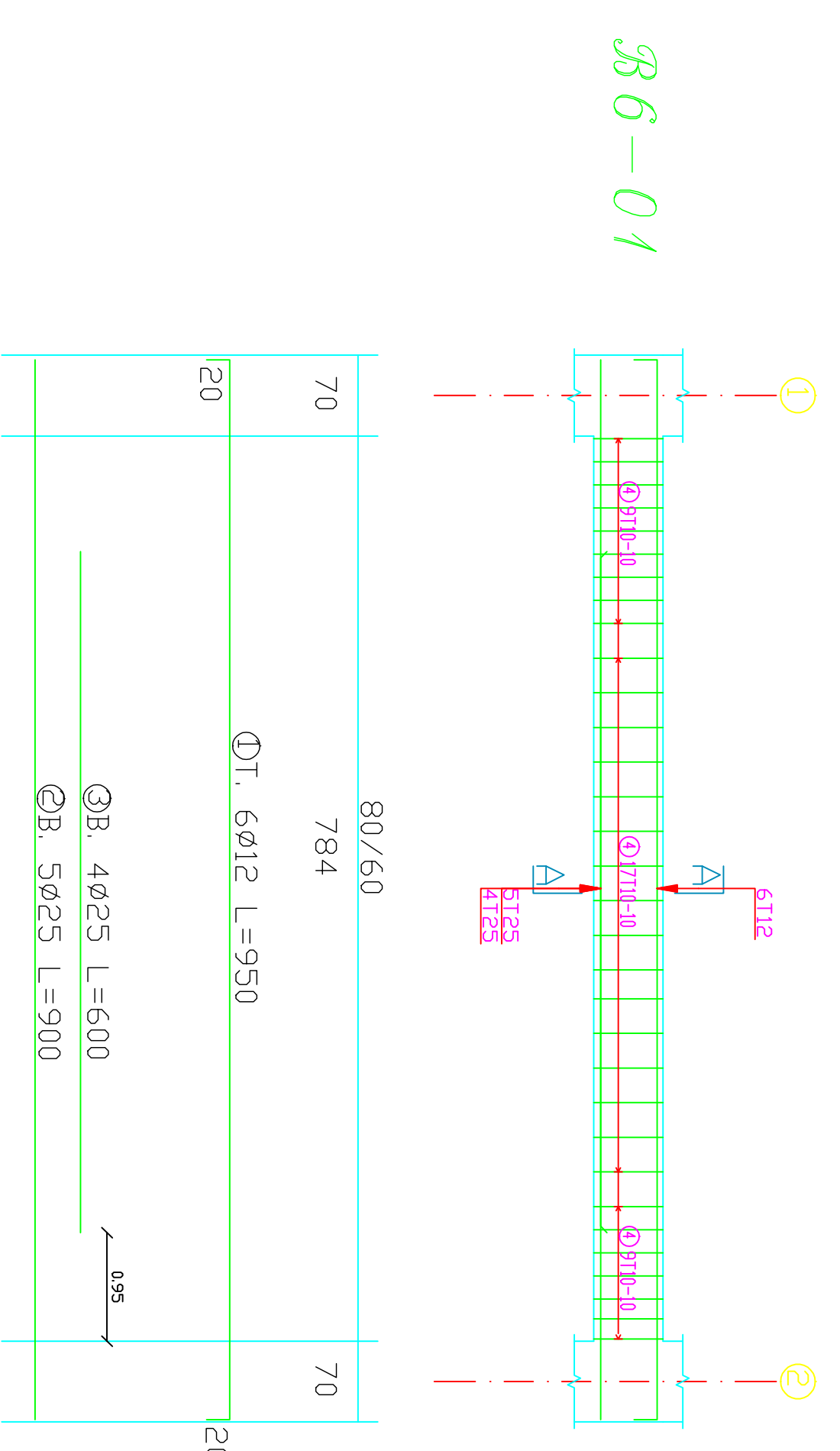
Supervisor :

Dr. Mohammad Taha

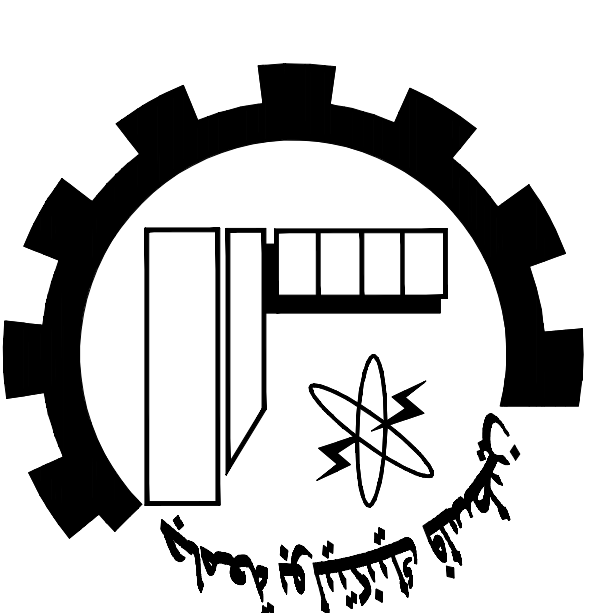
SCALE:

1/50

S40



GENERAL NOTES



NOTES:

all dimensions are in meters]
 unless otherwise shown.
 all spot levels are in meters.

Palestine Polytechnic University
 Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

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Issam Hassouna

Abed Al-fatah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Beams Details

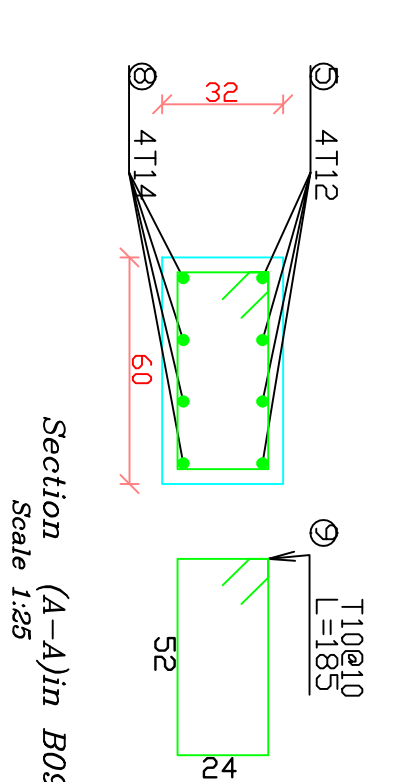
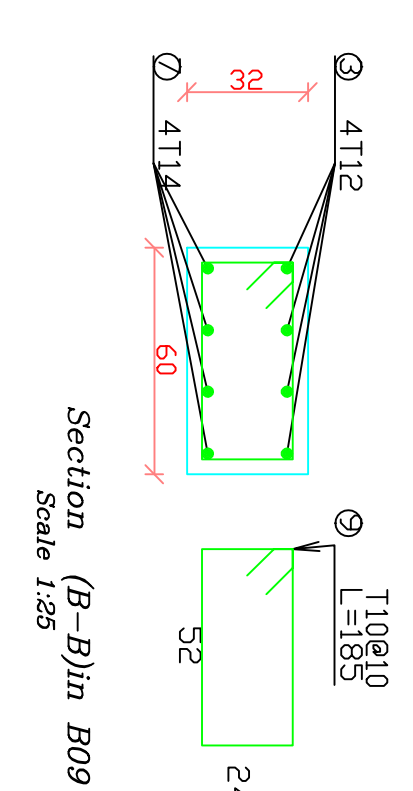
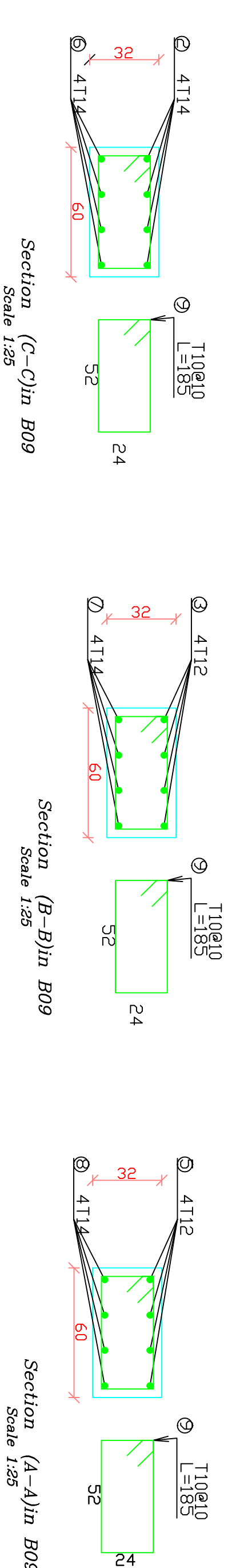
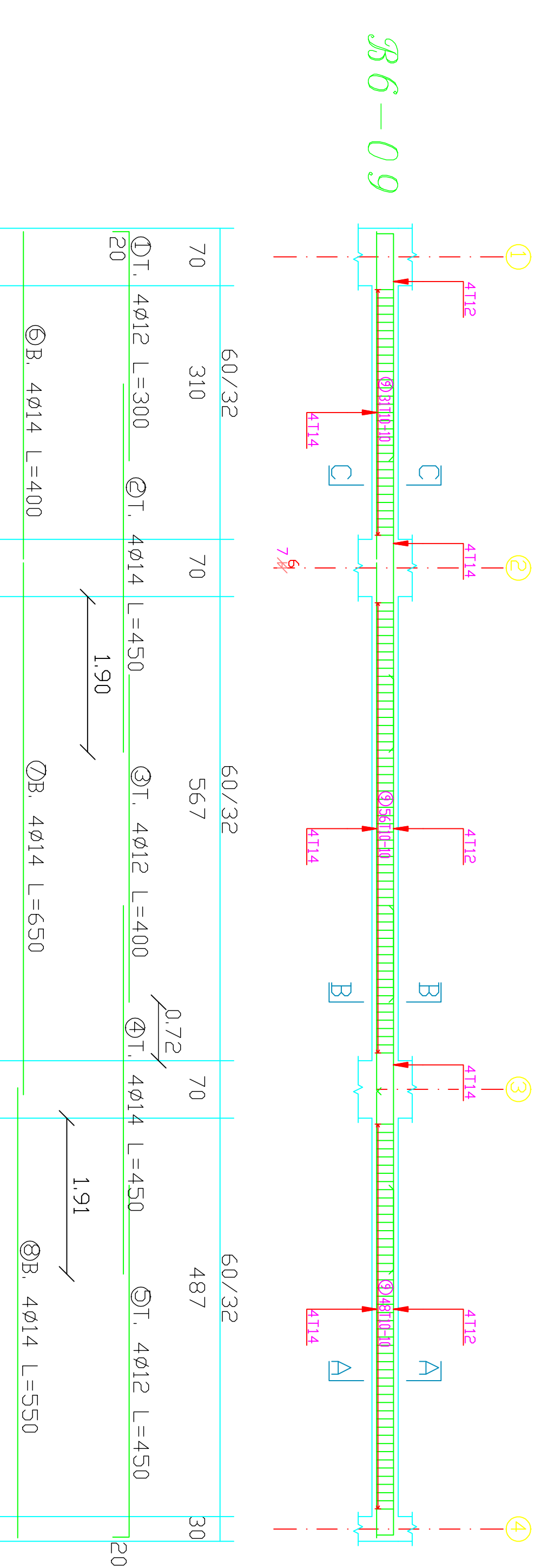
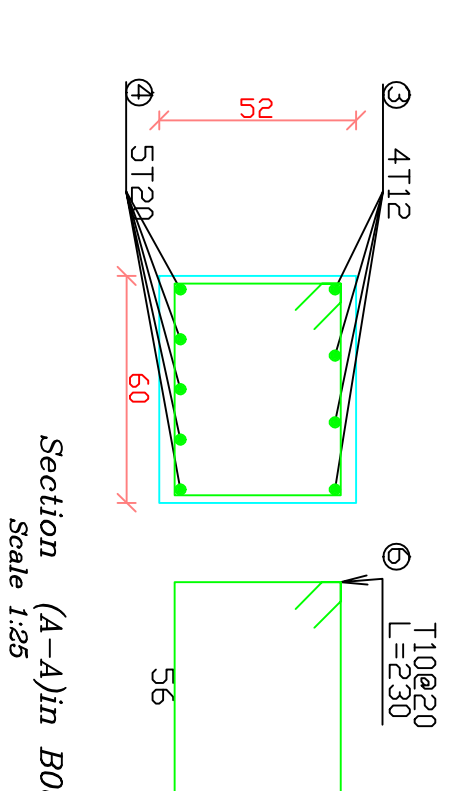
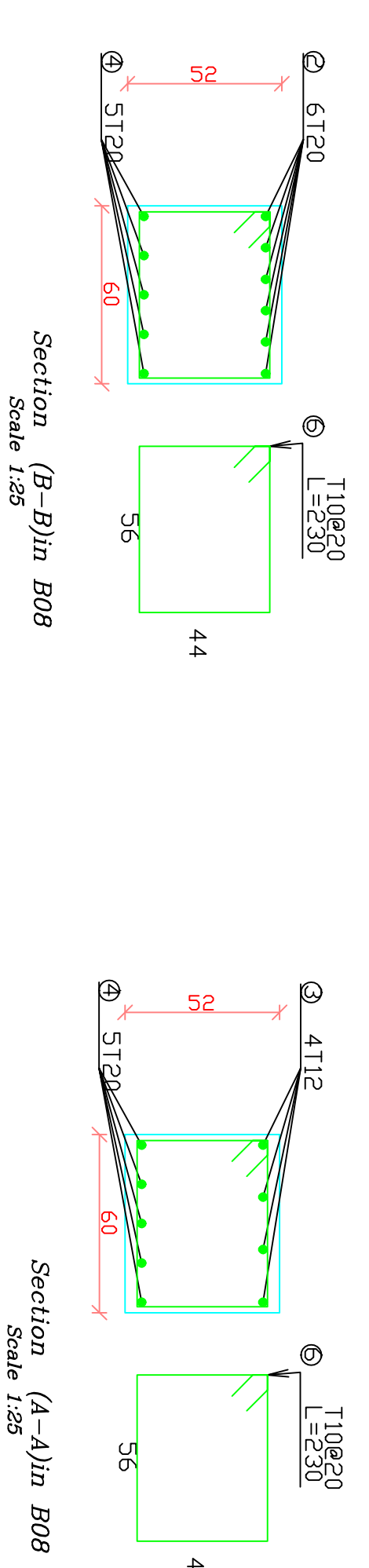
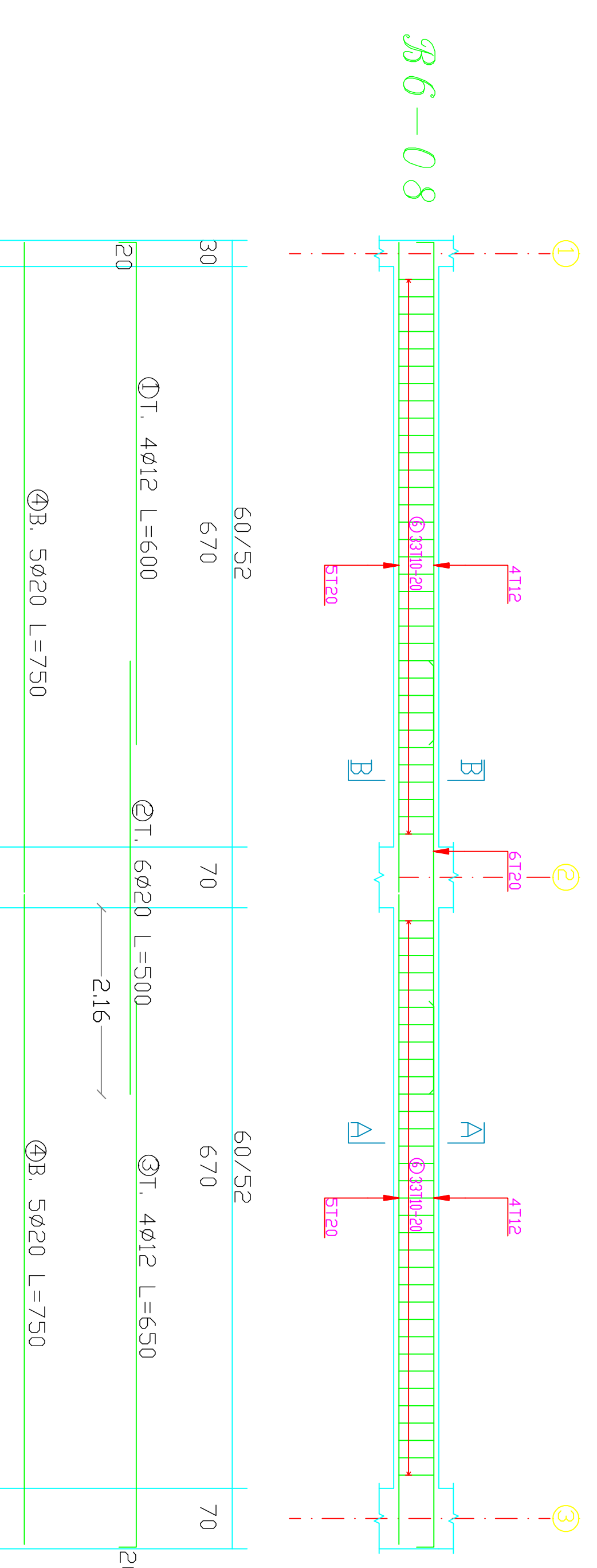
Supervisor :

Dr. Mohammad Taha

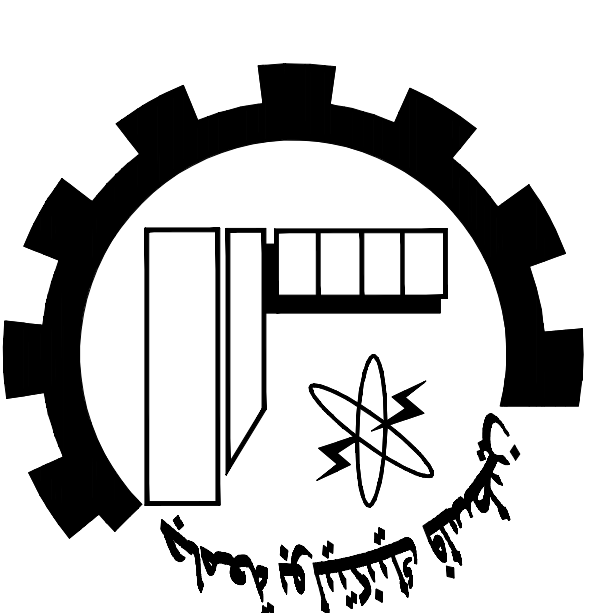
SCALE:

1/50

549



GENERAL NOTES



NOTES:

all dimensions are in meters]
unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University

Civil, Arch. Eng. Department

Building Engineering

Designed By:

Israa Rabai

Omar Khamayseh

Issam Hassouna

Abdel Al-fatah Jawabreh

Mohammad Abu Zalah

Drawing Title :

Beams Details

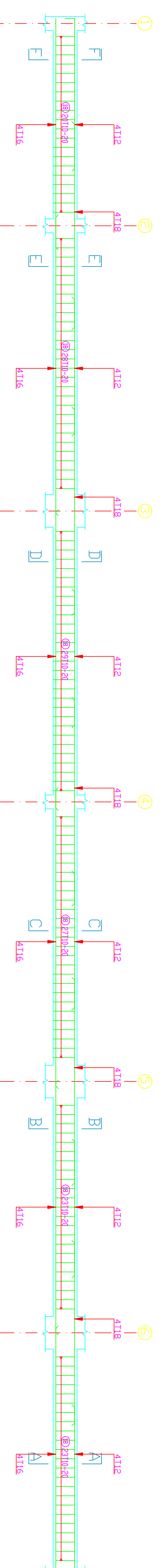
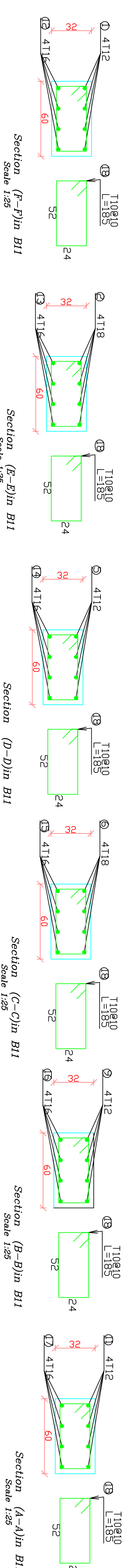
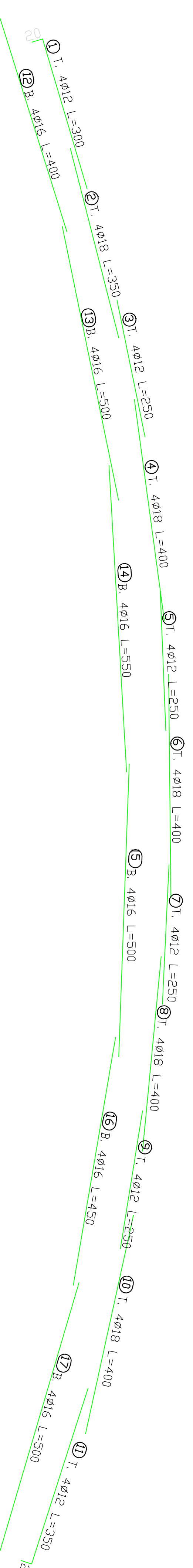
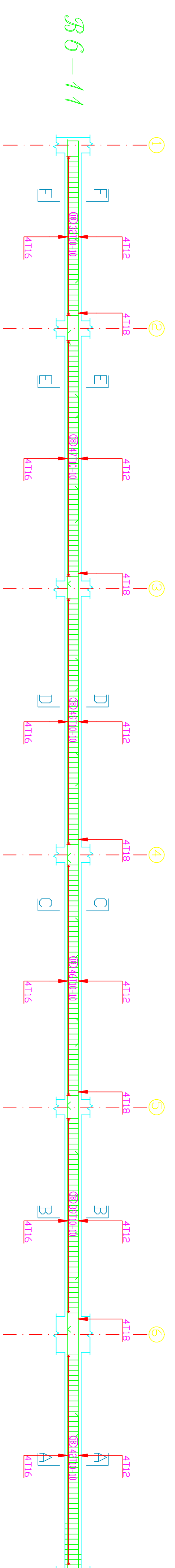
Supervisor :

Dr. Mohammad Taha

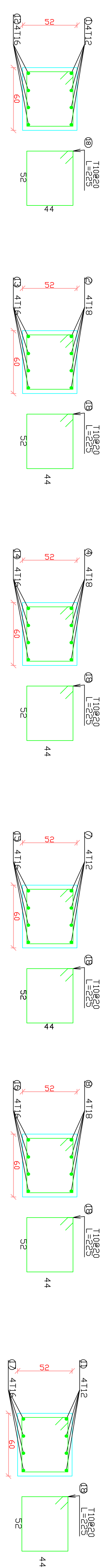
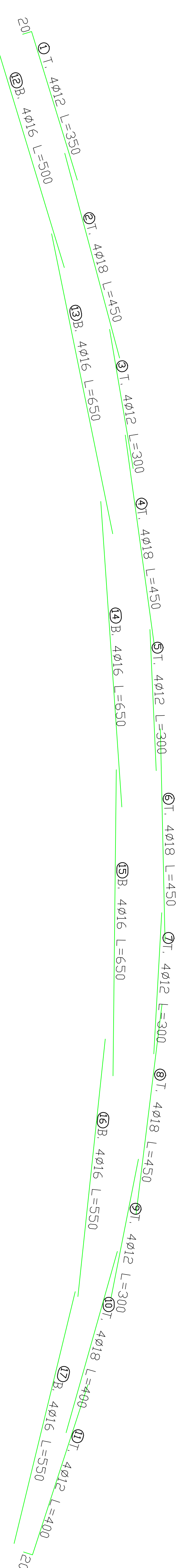
SCALE:

1/50

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30-12
31-12
32-12
33-12
34-12
35-12
36-10



Section (F-F)in B12
Scale 1:25

Section (E-E)in B12
Scale 1:25

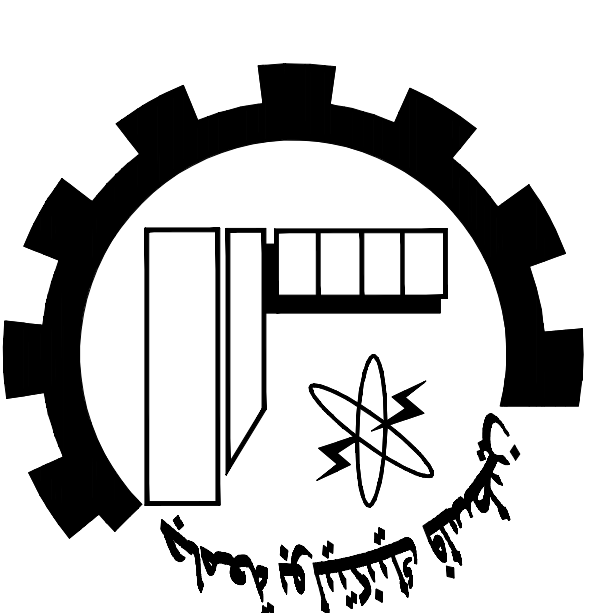
Section (D-D)in B12
Scale 1:25

Section (C-C)in B12
Scale 1:25

Section (B-B)in B12
Scale 1:25

Section (A-A)in B12
Scale 1:25

GENERAL NOTES



Palestine Polytechnic University
Civil. Arch. Eng. Department
Building Engineering

Designed By:
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Abed Al-fatrah Jawabreh

Mohammad Abu Zalath

Drawing Title :

Stair Details

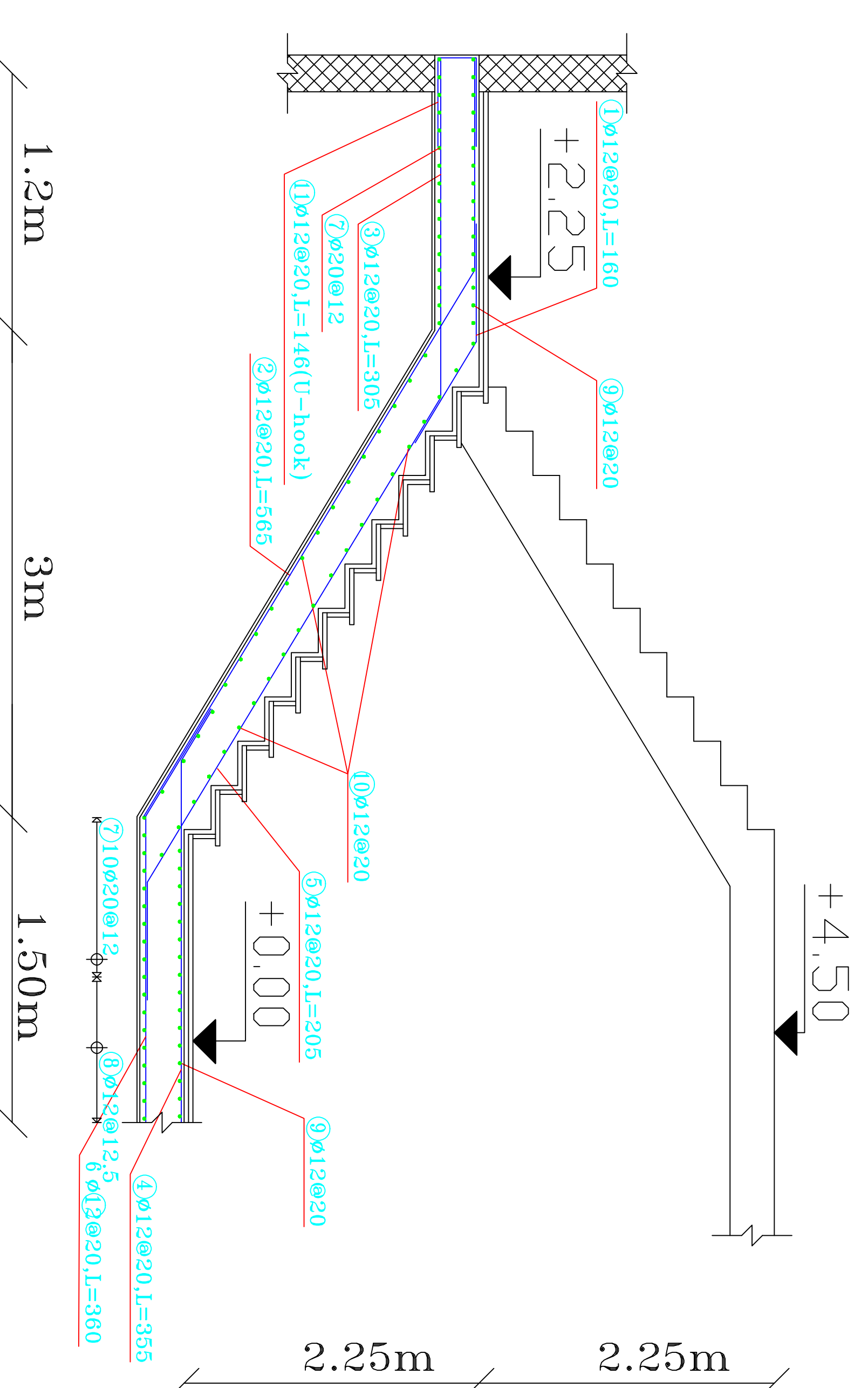
Supervisor :

Dr. Mohammad Taha

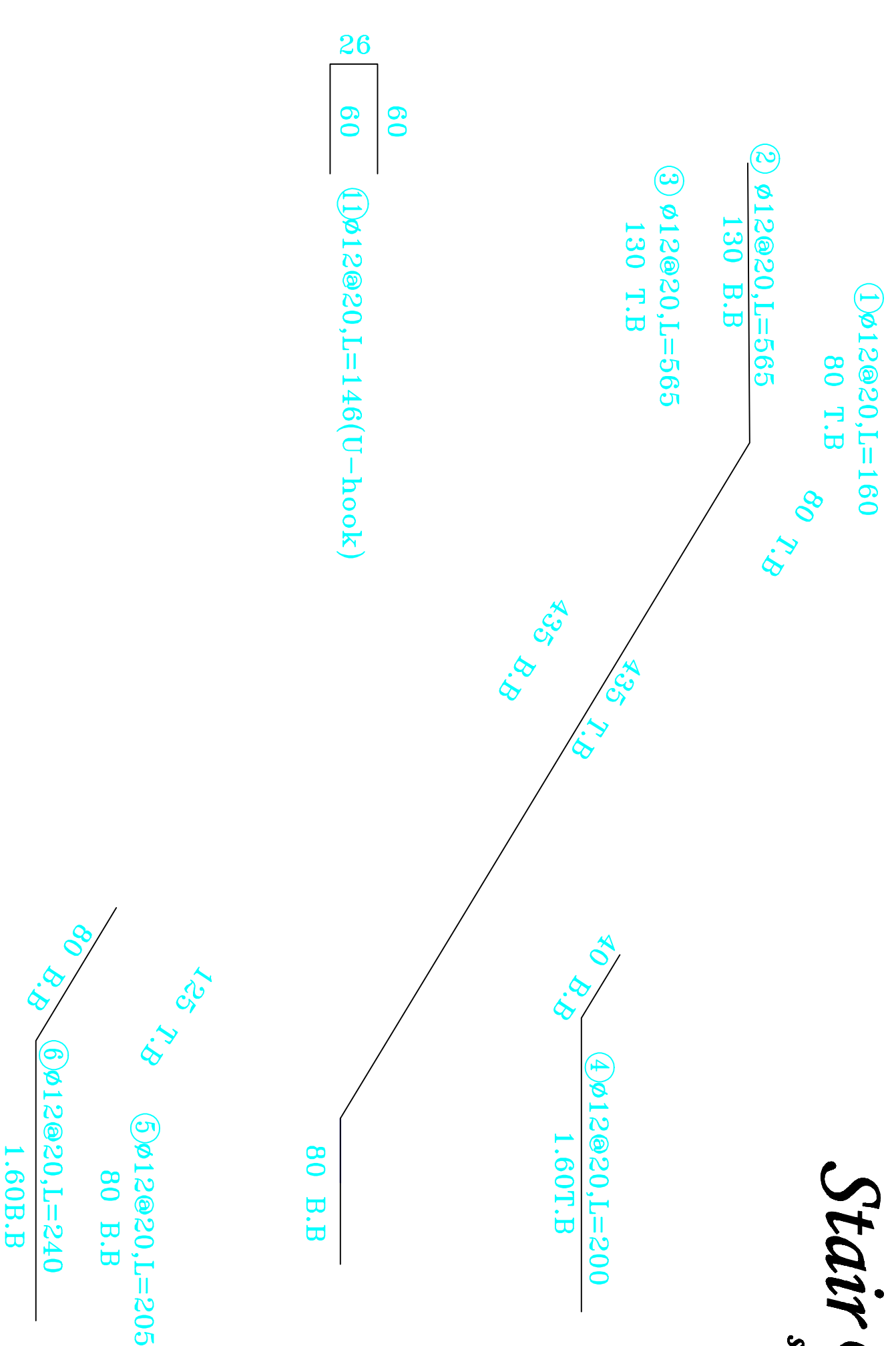
SCALE:

1/20

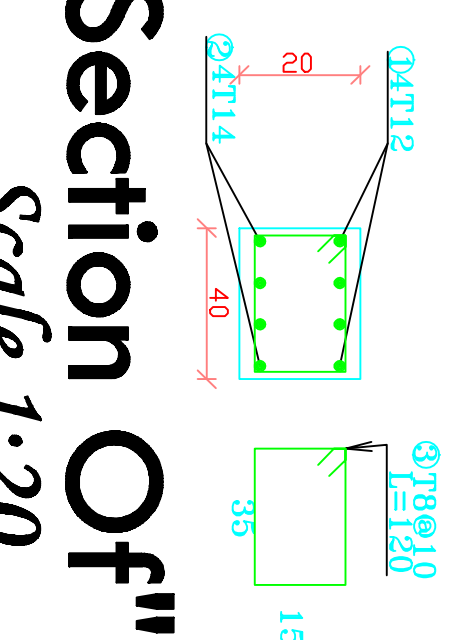
543



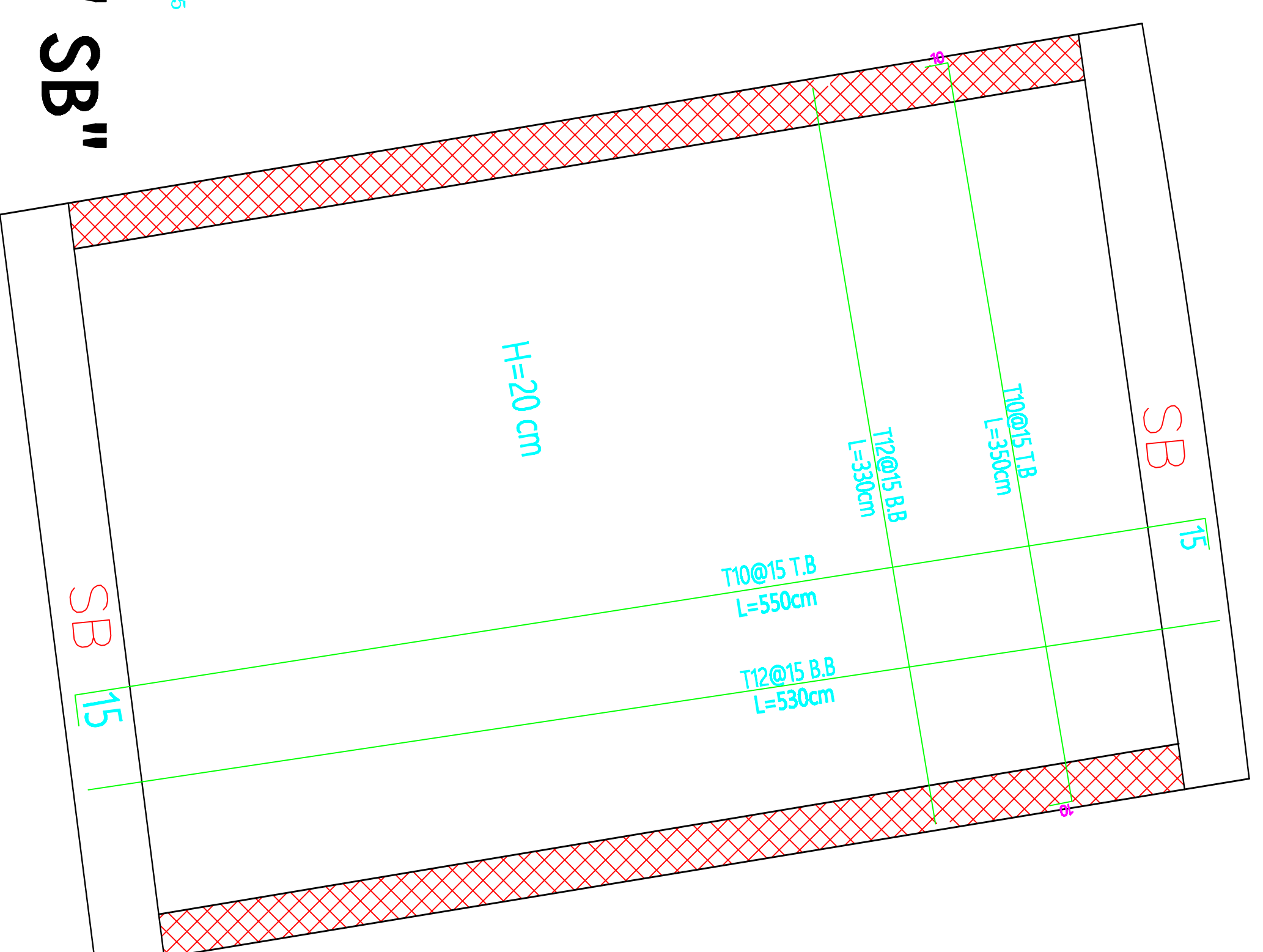
Stair Details
scale 1:20

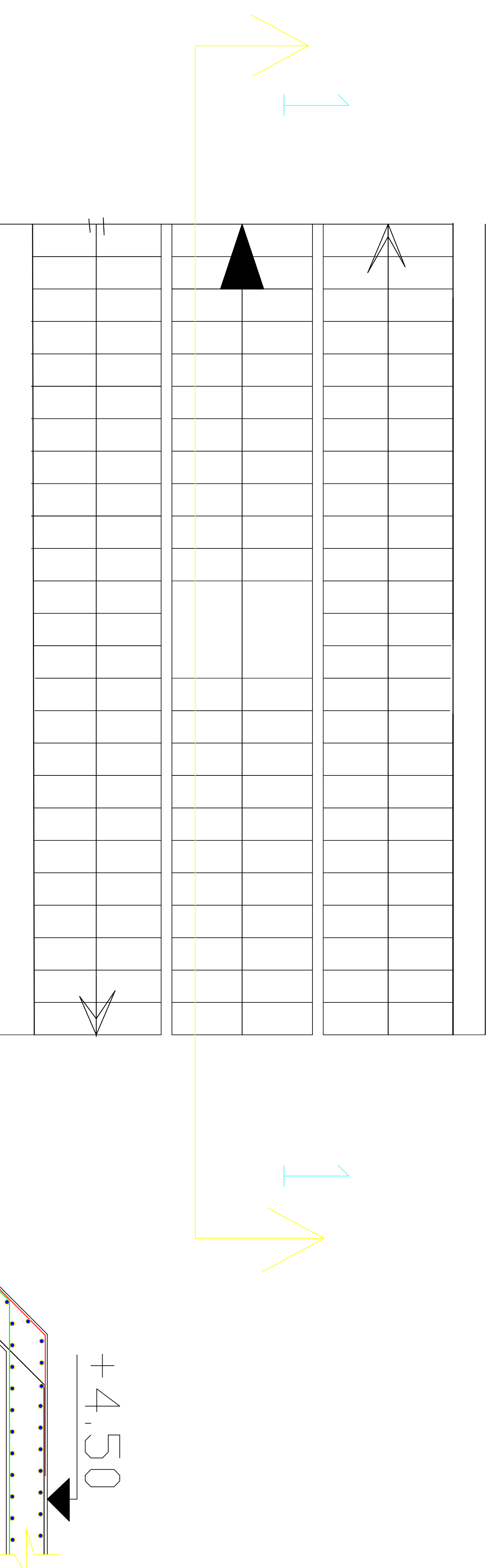


Section Of" SB"
Scale 1:20



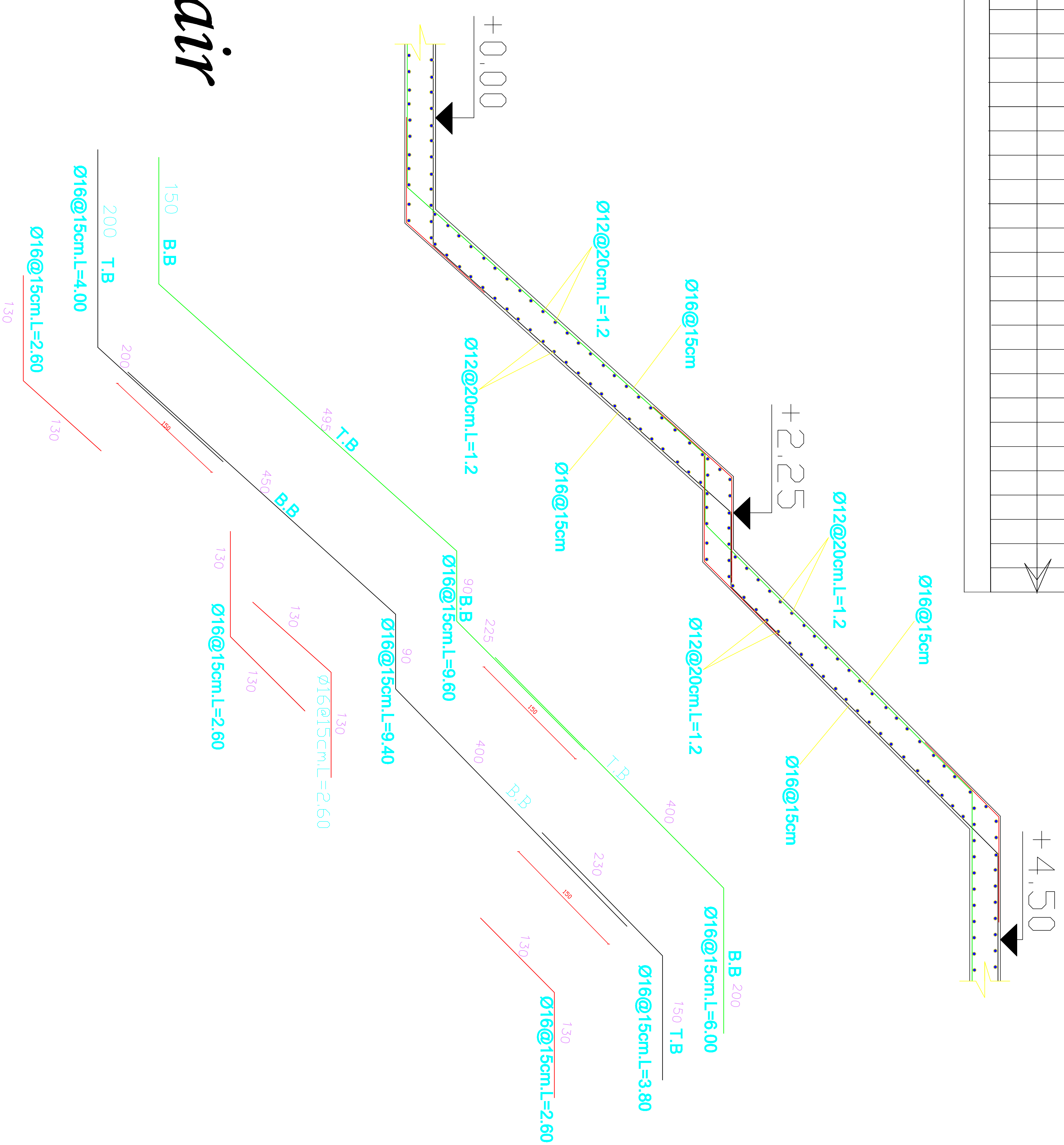
Solid Slab of Stair Case
Scale 1:20



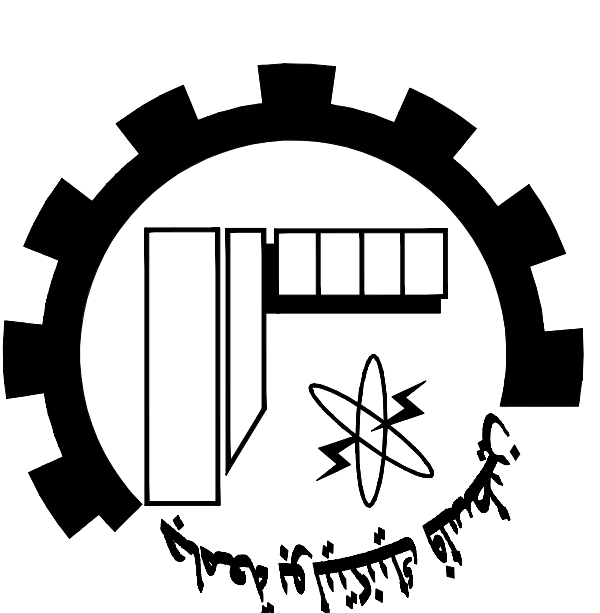


Section (1-1) in stair

SCALE 1:25



GENERAL NOTES



NOTES:

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unless otherwise shown.
all spot levels are in meters.

Palestine Polytechnic University
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Building Engineering

Designed By:
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Mohammad Abu Zalah

Drawing Title:
Stair Details

Supervisor:
Dr. Mohammad Taha

SCALE:

1/25

S44