

Technical drawing of a reinforced concrete beam cross-section and elevation.

Cross-section (Top): Shows a rectangular beam with reinforcement bars labeled 1 through 11. The central bar is labeled C.BC11. The beam is supported by two columns, labeled 1 and 2.

Elevation View (Bottom): Shows the beam's profile with dimensions and reinforcement details.

- Dimensions:**
 - Overall length: 60/35 (split into 456 and 458).
 - Overall width: 520.
 - Reinforcement spacing: 300 (for 6T12 L=320 T.B.), 550 (for 25T25 T.B.), 300 (for 35T12 L=320 T.B.).
- Reinforcement Details:**
 - Top bars: 6T12 L=320 T.B., 25T25 T.B., 35T12 L=320 T.B.
 - Bottom bars: 44T25 B.B., 54T25 B.B.

Figure 10 shows two views of a roof structure. The top view is an elevation showing a roof with a 12:12 pitch. The width is 60', and the height is 17'. The roof is labeled with '52'25' and '42'25' at the base. The bottom view is a section view labeled 'A-A' with a scale of '1:20'. It shows a cross-section of the roof with a 12:12 pitch, a width of 60', and a height of 17'.

① 6T14
 35
 ② 2T25
 60
 A-A
 1:20

① 2T25
 35
 ② 2T25
 60
 B-B
 1:20

T8ø15
 L=180
 52
 T12ø10
 L=195
 52

Technical drawing of a bridge structure, showing a plan view and two cross-sections (A-A and B-B).

Plan View:

- Span dimensions: 60/35 and 60/35.
- Reinforcement details: 6T14 L=320 T.B. (top), 7T25 L=320 T.B. (bottom), 520 (diameter), 550 (diameter).
- Section labels: A-A, B-B.
- Bridge label: C.BC11.

Cross-section A-A:

- Reinforcement: 6T14 L=320 T.B.
- Diameter: 520.
- Section label: A-A.

Cross-section B-B:

- Reinforcement: 7T25 L=320 T.B.
- Diameter: 550.
- Section label: B-B.

Technical drawings of a reinforced concrete column and beam.

Column Drawing (Top):

- Section: A-A, 1:20
- Dimensions: 450 mm x 450 mm square cross-section, 80 mm wall thickness.
- Reinforcement: 6T12 top bars, 6T12 bottom bars, 8T15 longitudinal bars.

Beam Drawing (Bottom):

- Section: B-B, 1:20
- Dimensions: 120 mm width, 850 mm height.
- Reinforcement: 6T14 top bars, 6T12 bottom bars, 8T15 longitudinal bars.

Technical drawing of a bridge structure, showing a plan view and a cross-section view.

Plan View (Top):

- Dimensions: 120/35, 120/35, 120/35, 60/120.
- Reinforcement details:
 - ① 6T14 L=350 T.B.
 - ② 8T20 T.B.
 - ③ 12T28 T.B.
 - ④ 12T28 T.B.
 - ⑤ 12T28 T.B.
 - ⑥ 8T14 T.B.
 - ⑦ 8T25 L=700 T.B.
 - ⑧ 10T12 M.B.
 - ⑨ 10T12 M.B.
 - ⑩ 8T25 B.B.
 - ⑪ 8T16 B.B.
 - ⑫ 12T28 B.B.
 - ⑬ 12T28 B.B.
 - ⑭ 12T28 B.B.
 - ⑮ 9T28 B.B.
 - ⑯ 9T28 B.B.

Cross-section View (Bottom):

- Dimensions: 30, 472, 455, 60, 677, 60, 1613, 30.
- Reinforcement details:
 - ① 28T8-15, 4L
 - ② 3T10-15, 4L
 - ③ 25T8-15, 4L
 - ④ 5T10-15, 4L
 - ⑤ 28T12-10, 4L
 - ⑥ 27T8-15, 4L
 - ⑦ 4T10-15, 4L
 - ⑧ 40T12-10
 - ⑨ 60T8-15
 - ⑩ 30T12-10

Technical drawing of a mechanical part, showing three views: front, top, and side.

Front View: Shows a rectangular block with a central slot. The top flange has a width of 35. The main body has a width of 120 and a height of 85. The slot has a width of 45 and a depth of 2. The bottom flange has a width of 52. The drawing includes section lines and dimension lines.

Top View: Shows the block's footprint. The overall dimensions are 120 (width) by 85 (depth). The central slot has a width of 45 and a depth of 2. The drawing includes section lines and dimension lines.

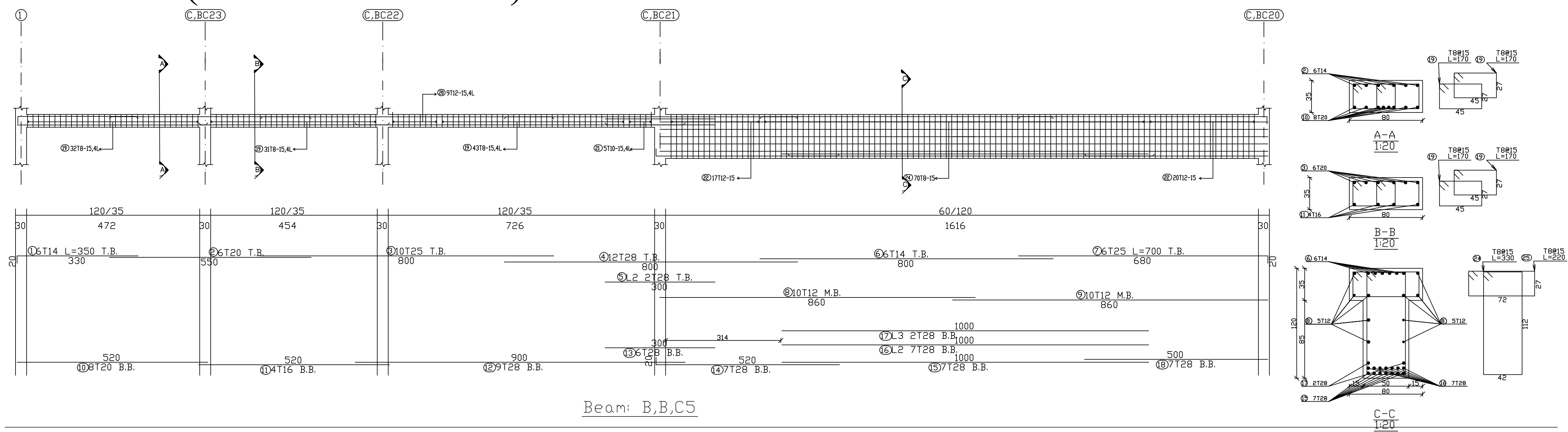
Side View: Shows the block's profile. The overall dimensions are 112 (width) by 52 (height). The central slot has a width of 45 and a depth of 2. The drawing includes section lines and dimension lines.

Section Lines: The drawing uses standard section line conventions to indicate the material of the part.

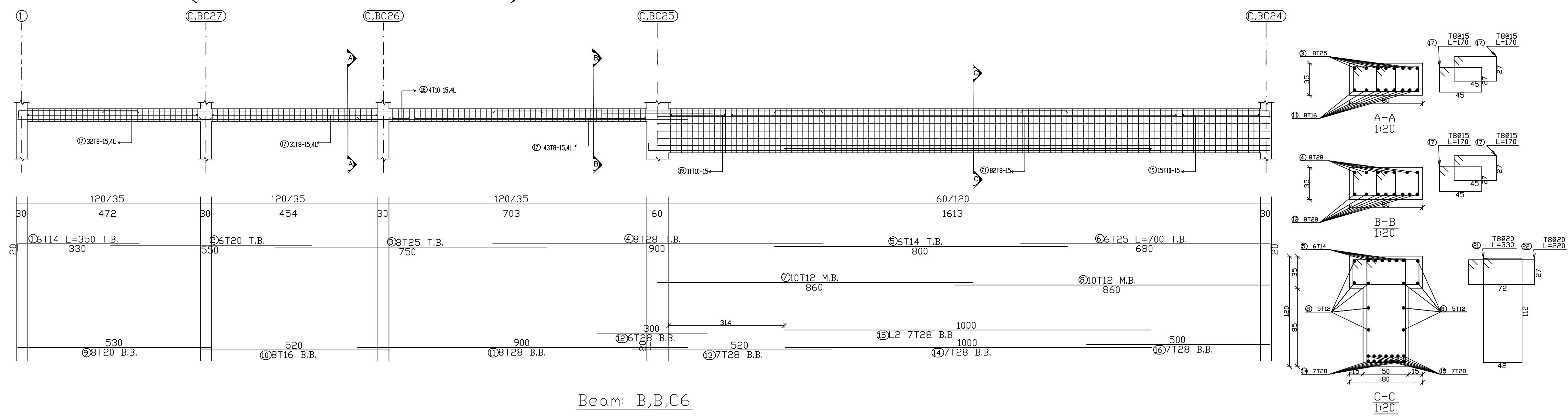
Dimensions: The drawing includes the following dimensions: 35, 120, 85, 45, 2, 52, 112, 120, 85, 45, 2, 52, 112.



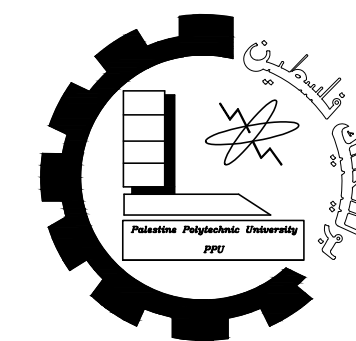
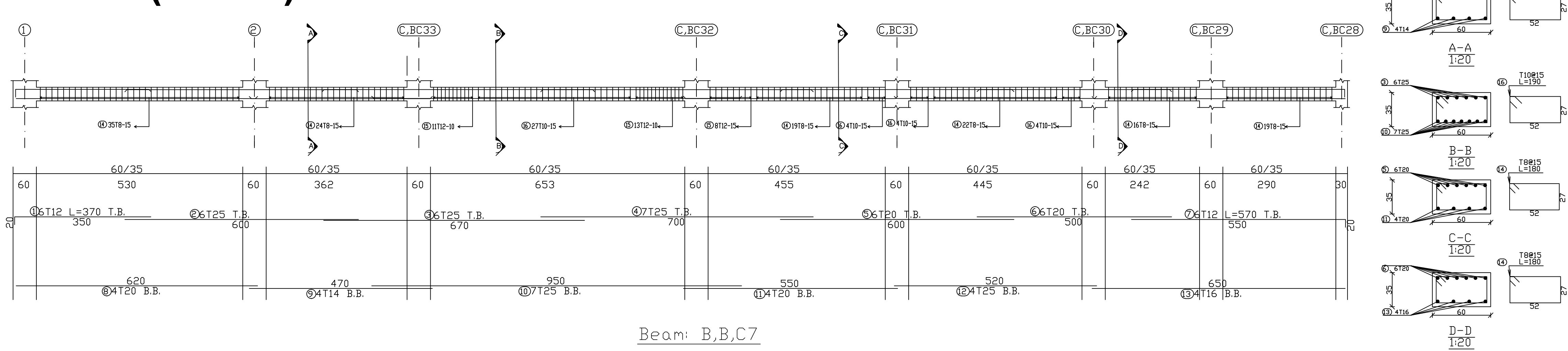
BEAM 5 (80/35 & T120/80)



BEAM 6 (80/35 & T120/80)

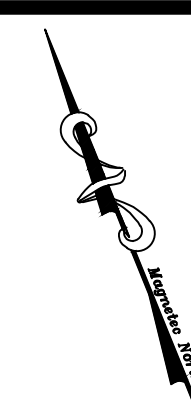


BEAM (60 /35)



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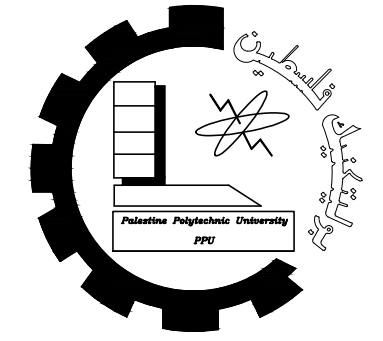
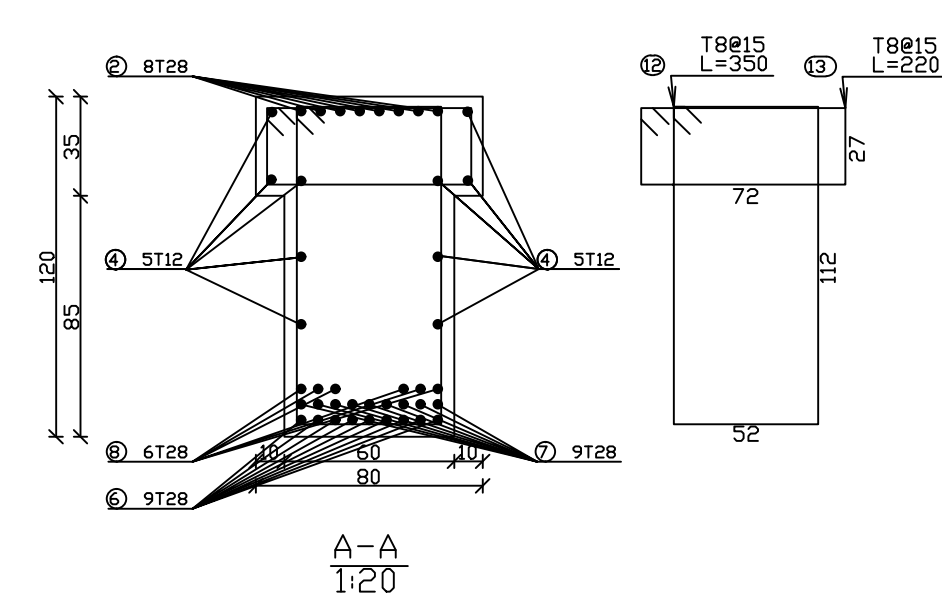
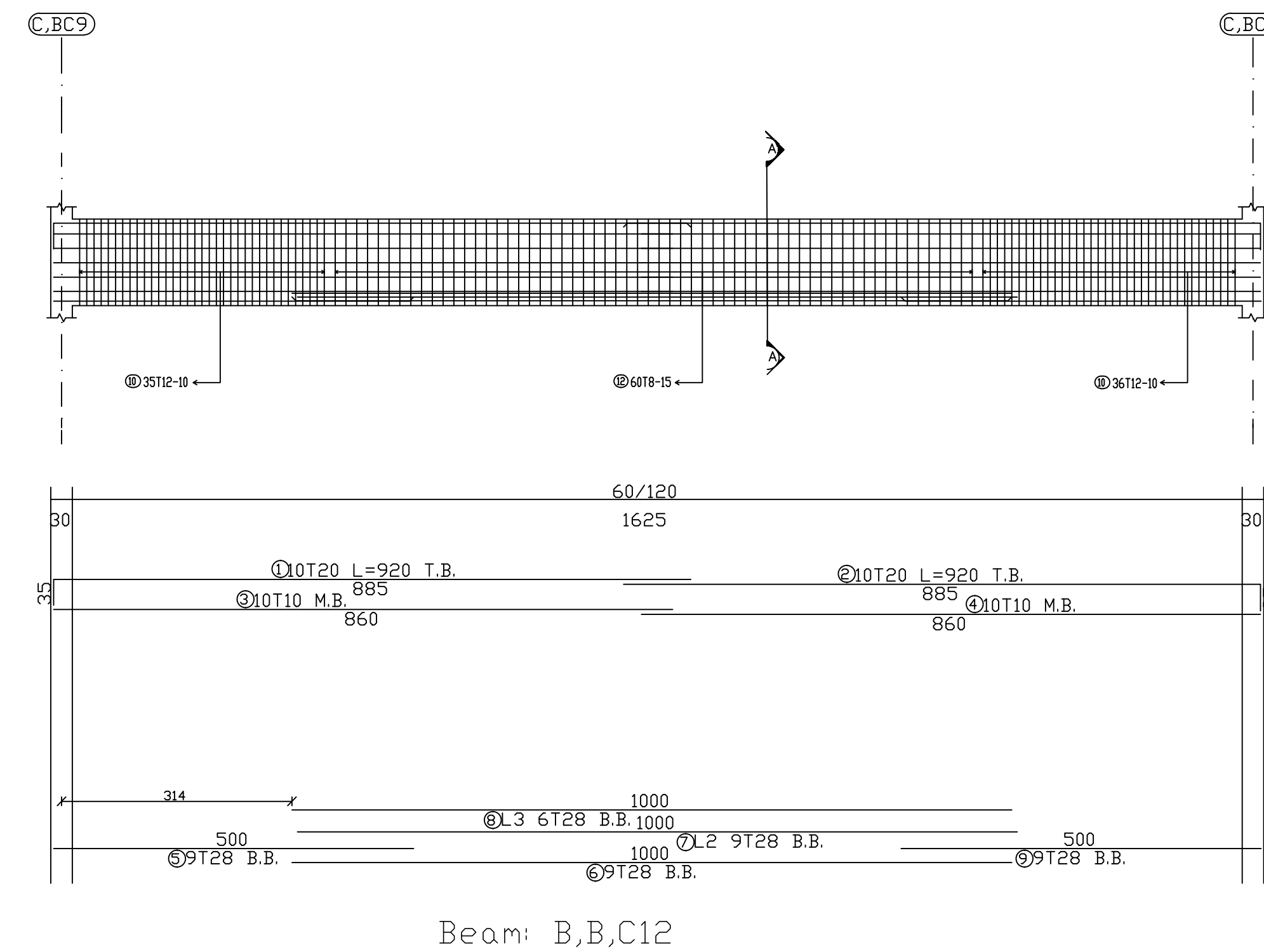
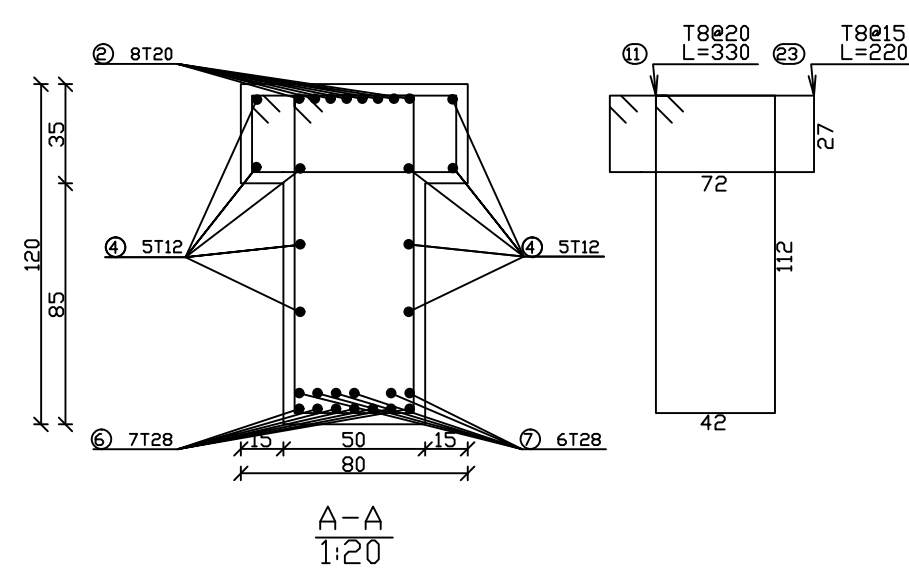
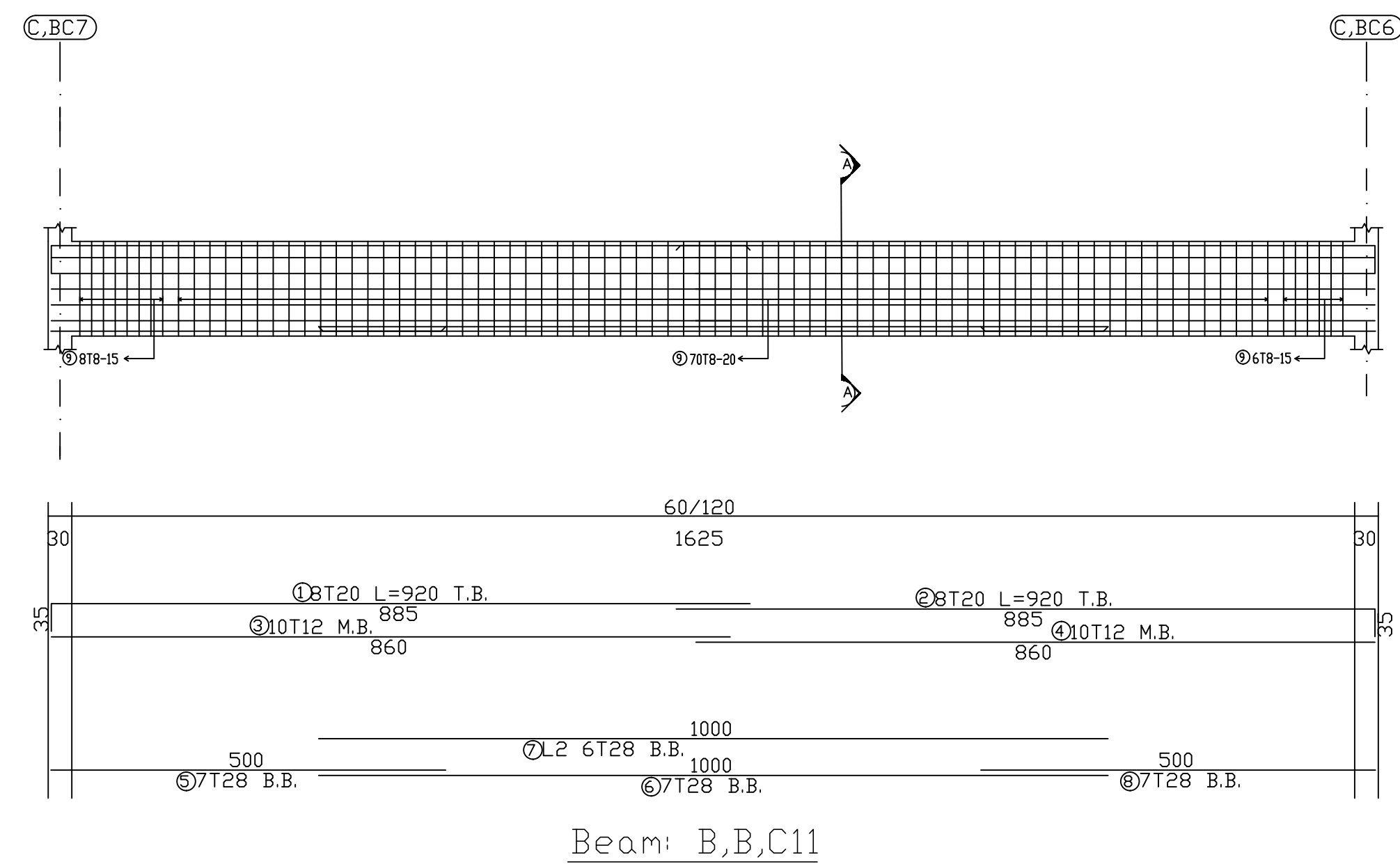
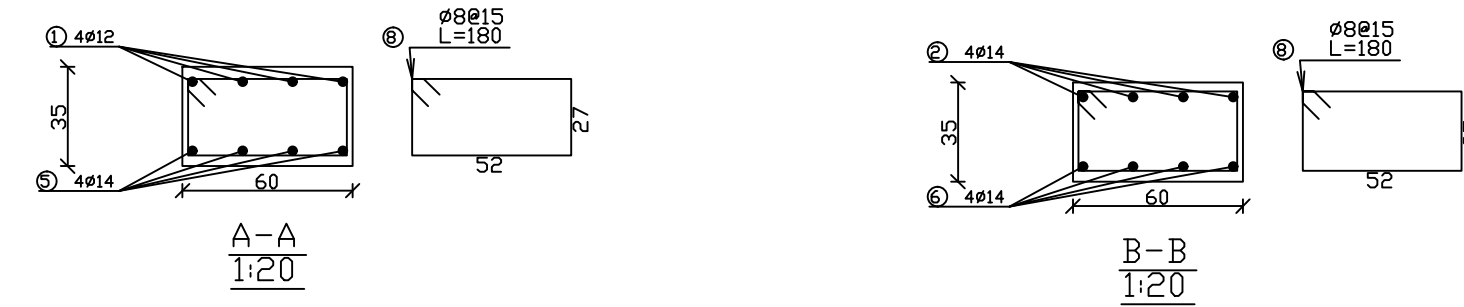
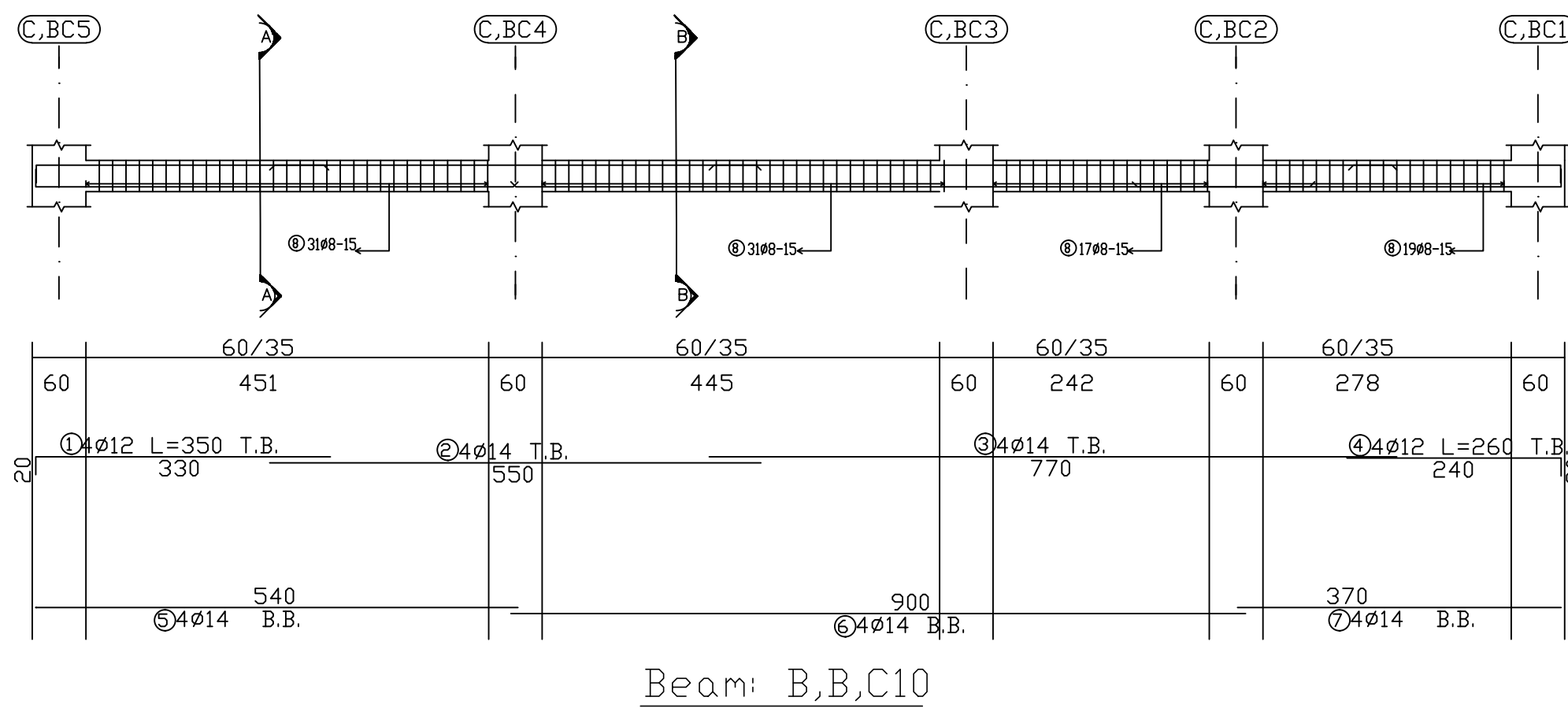
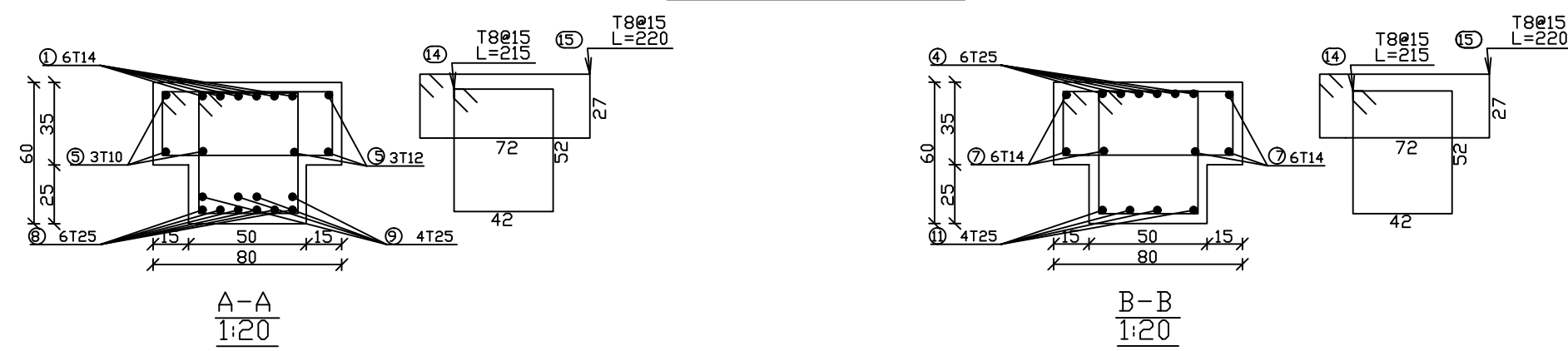
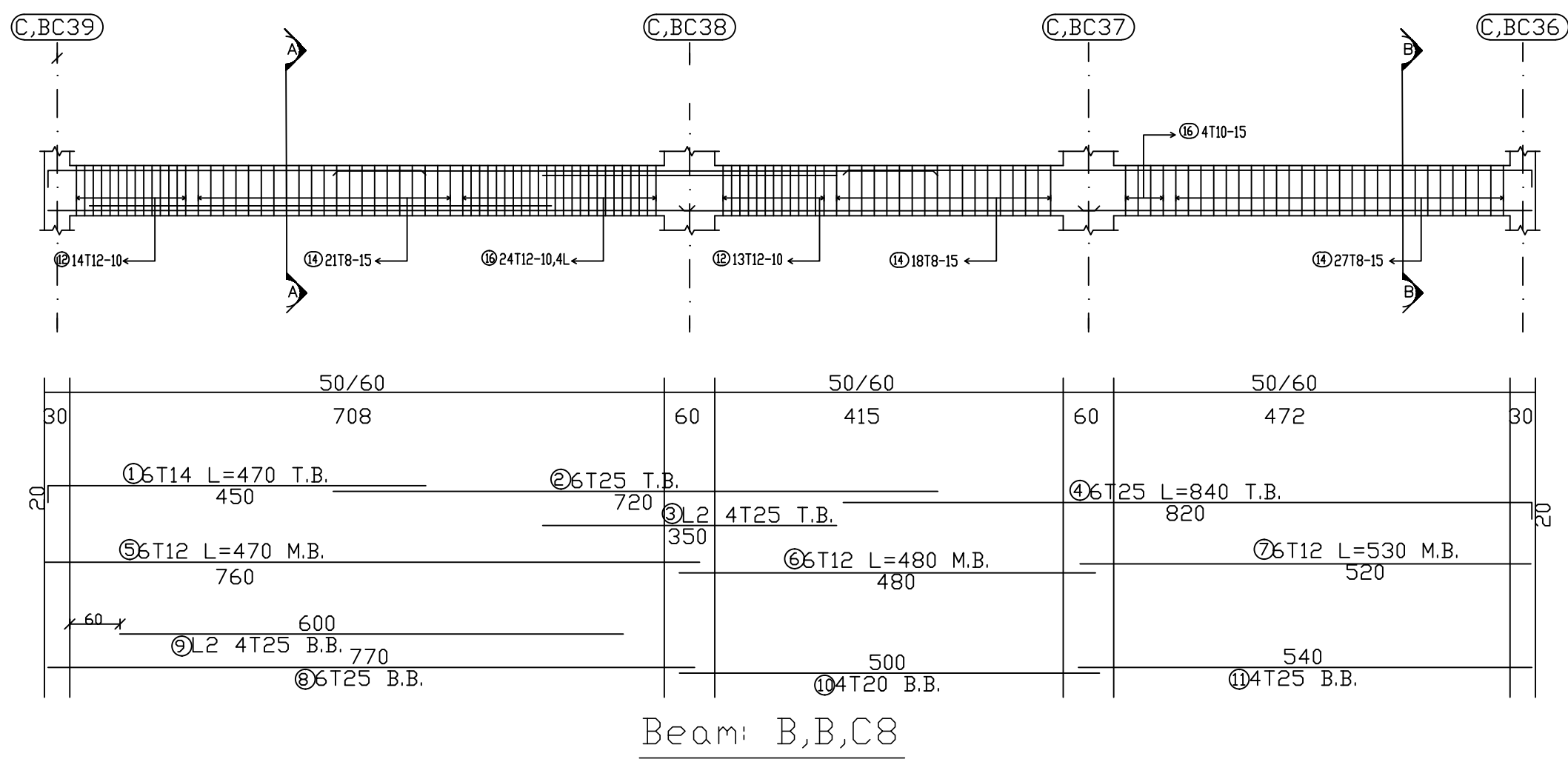
Project name:
Development and design of Land
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1/75 BEAMS DETAILING

Project team:
Amal Qaisyah
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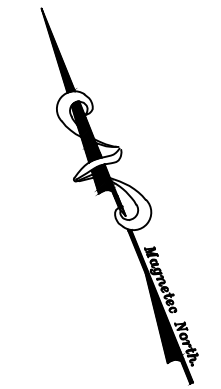
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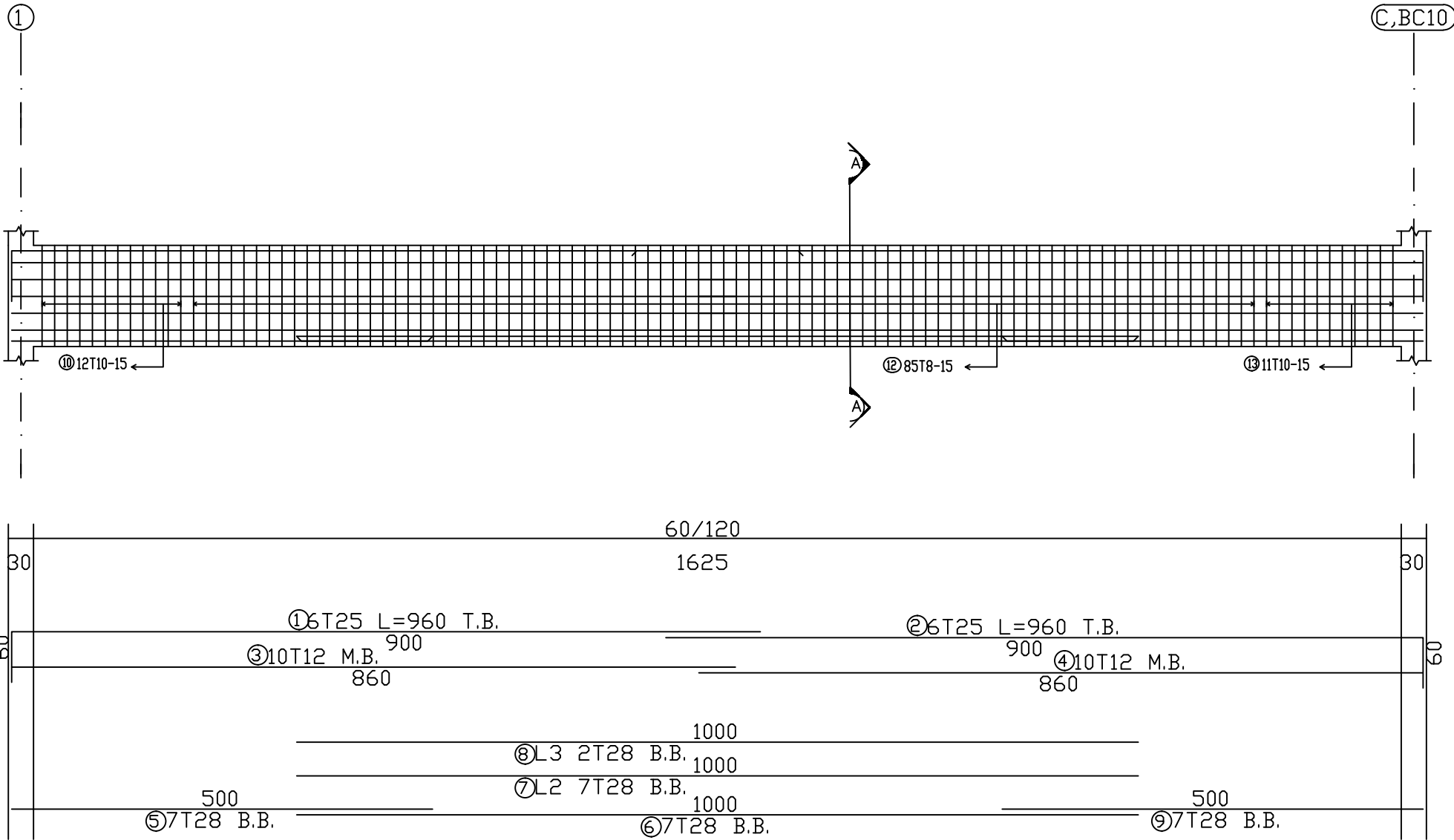
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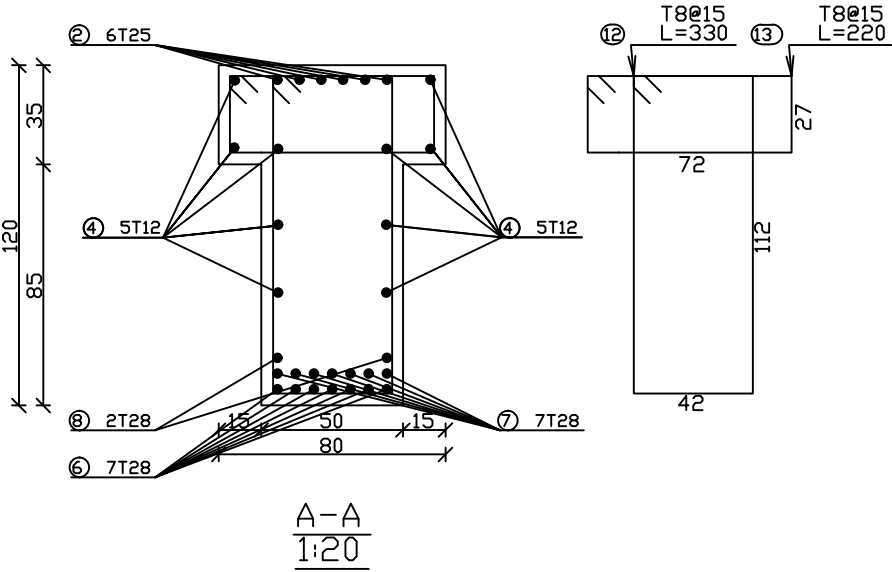
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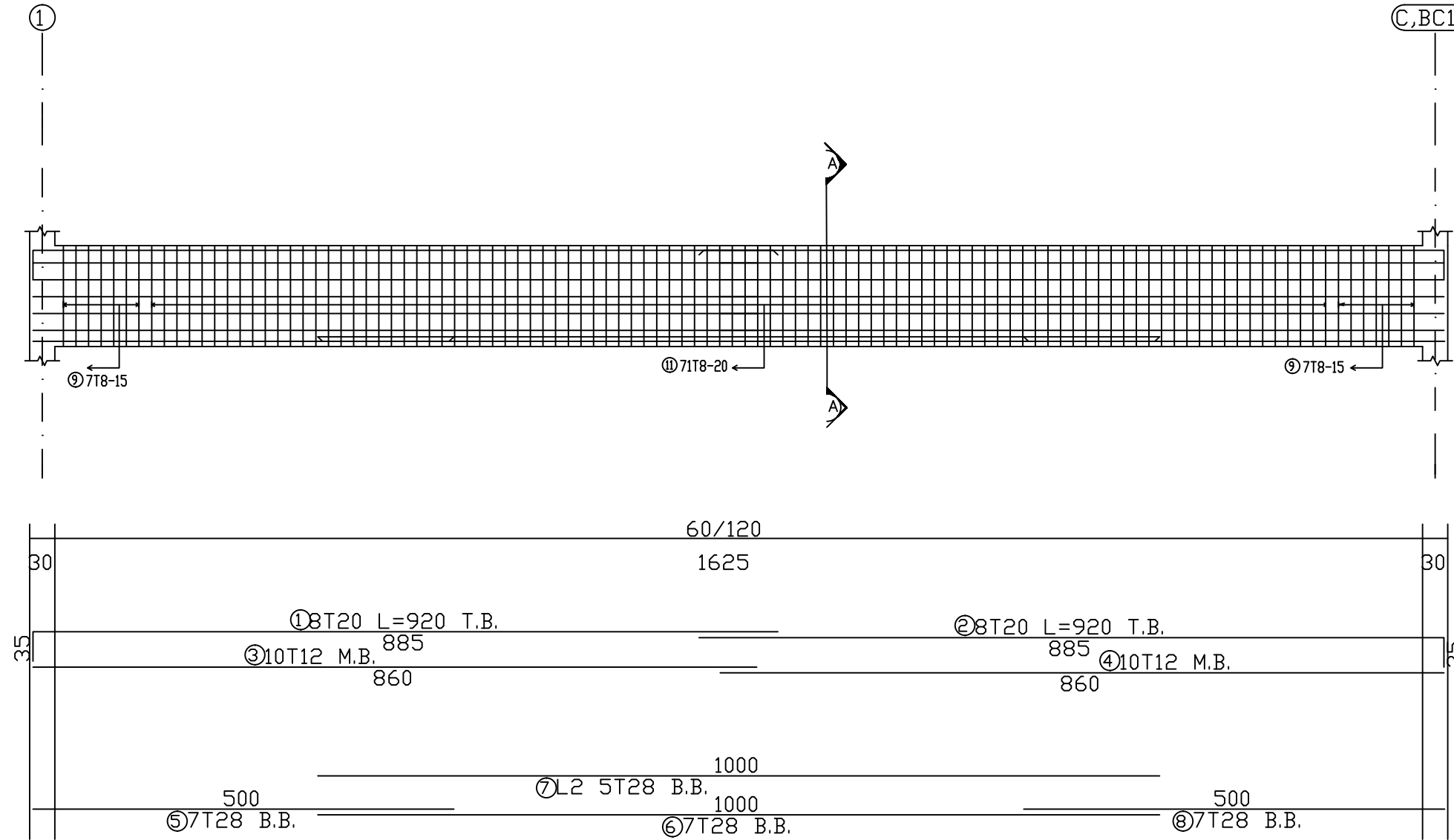
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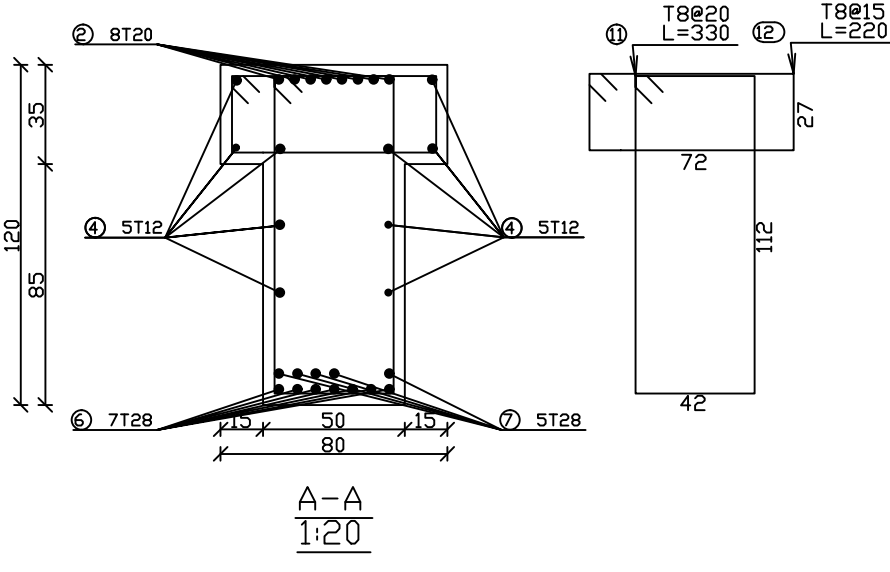
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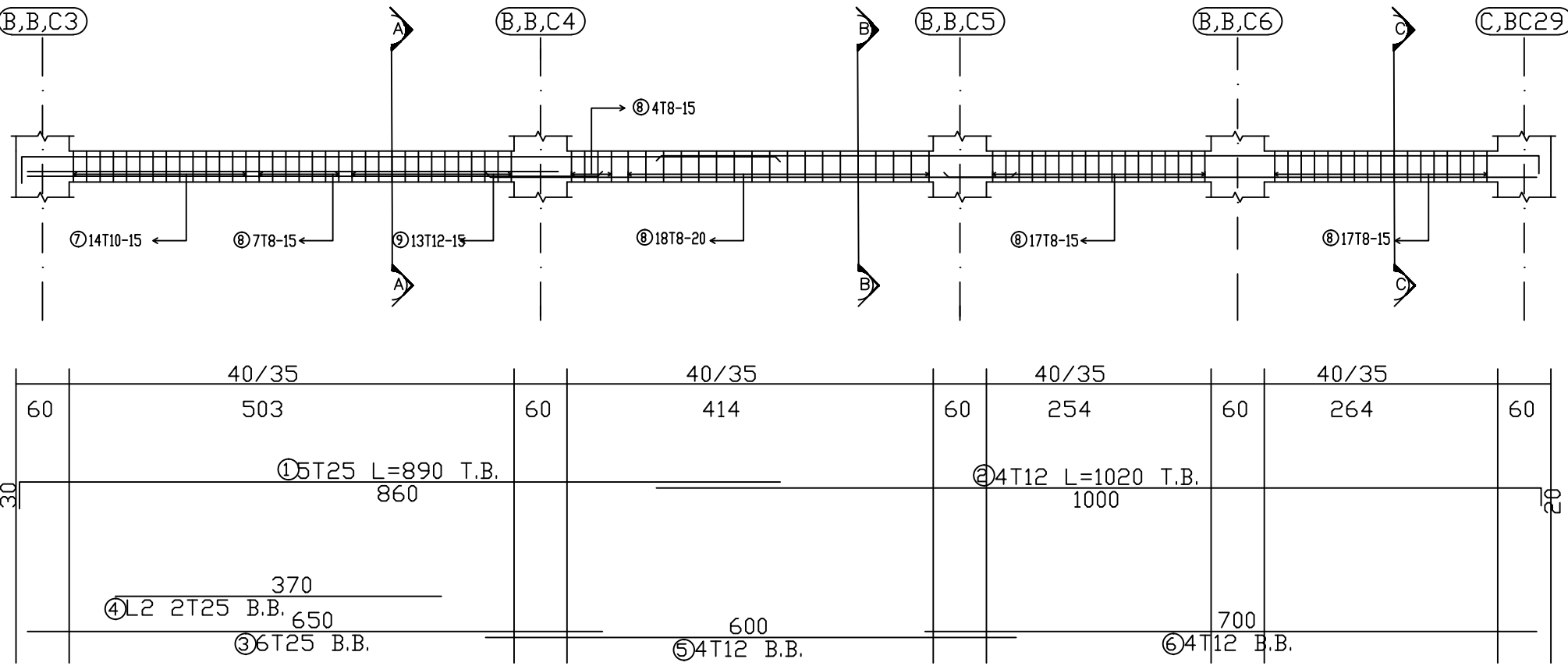
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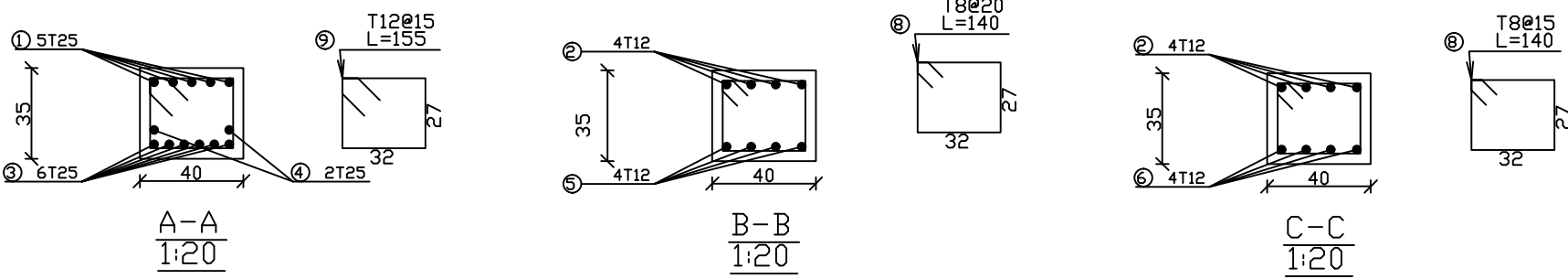
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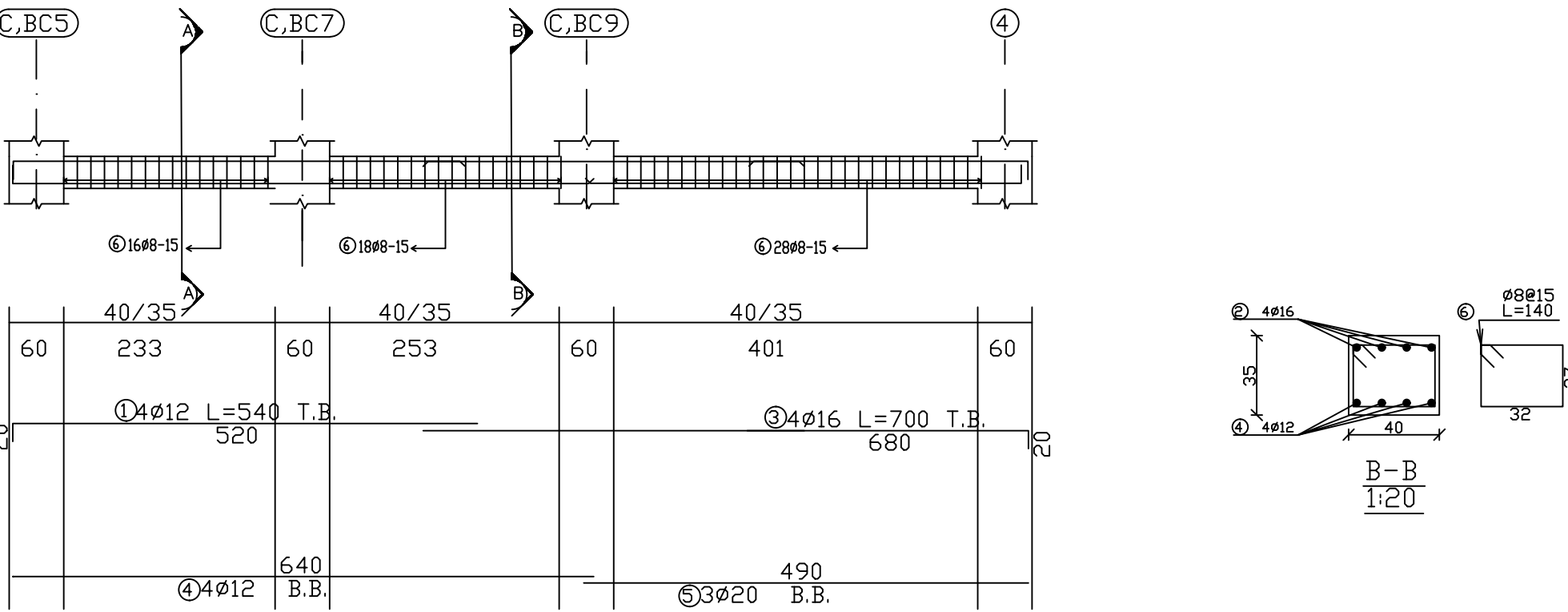
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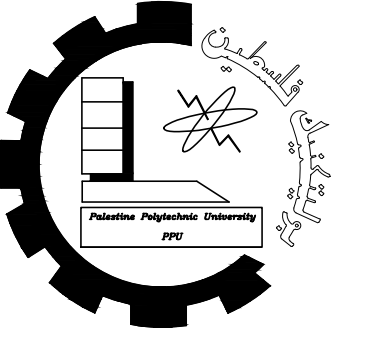
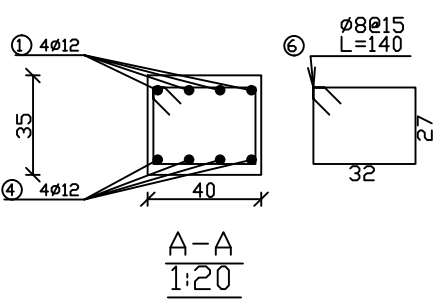
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Beam: B,B,C16



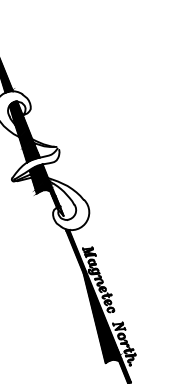
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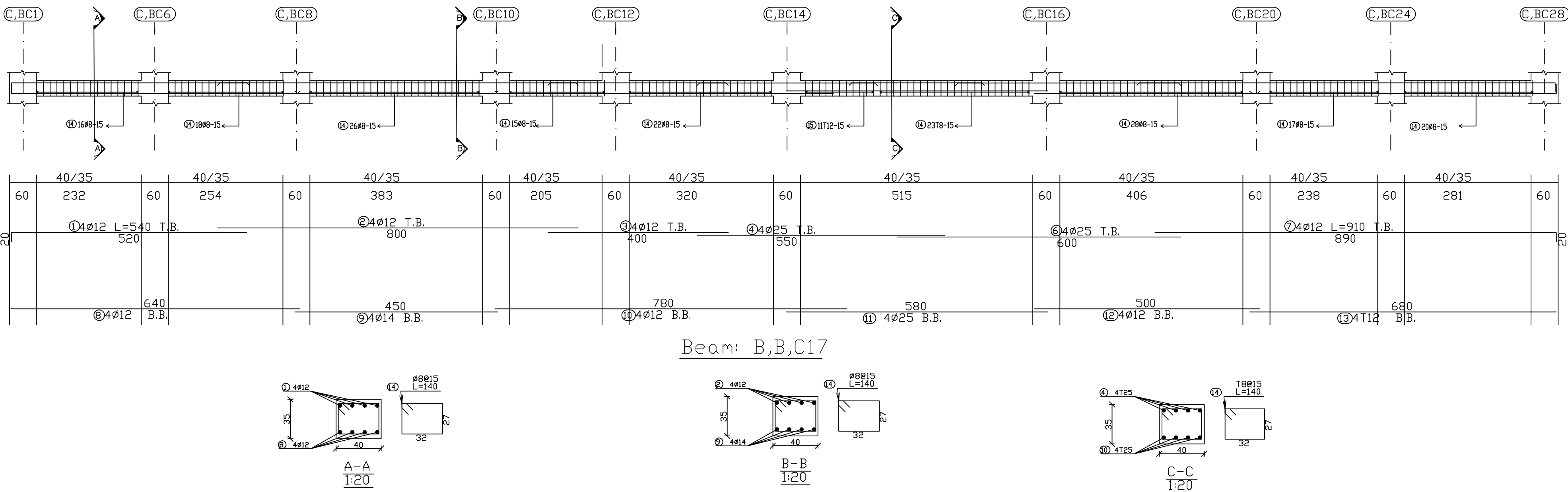
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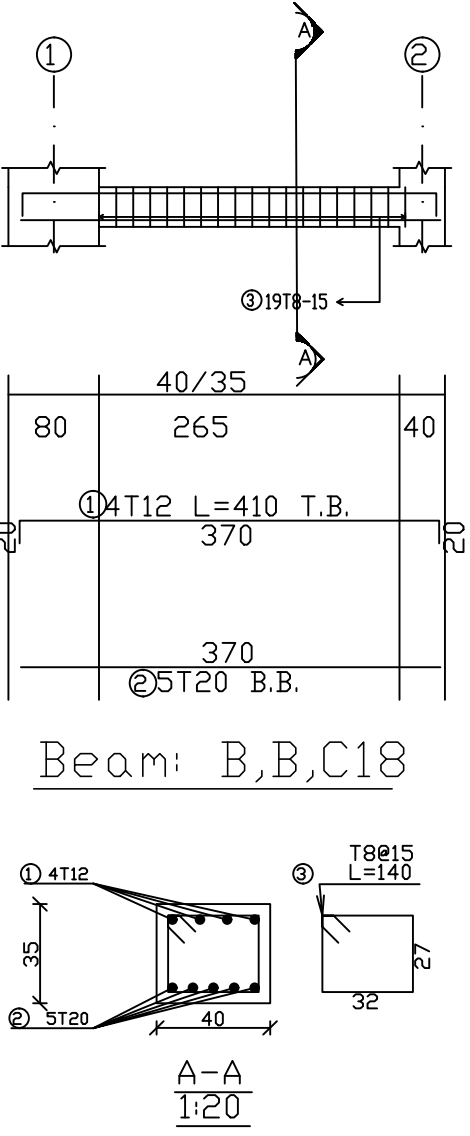
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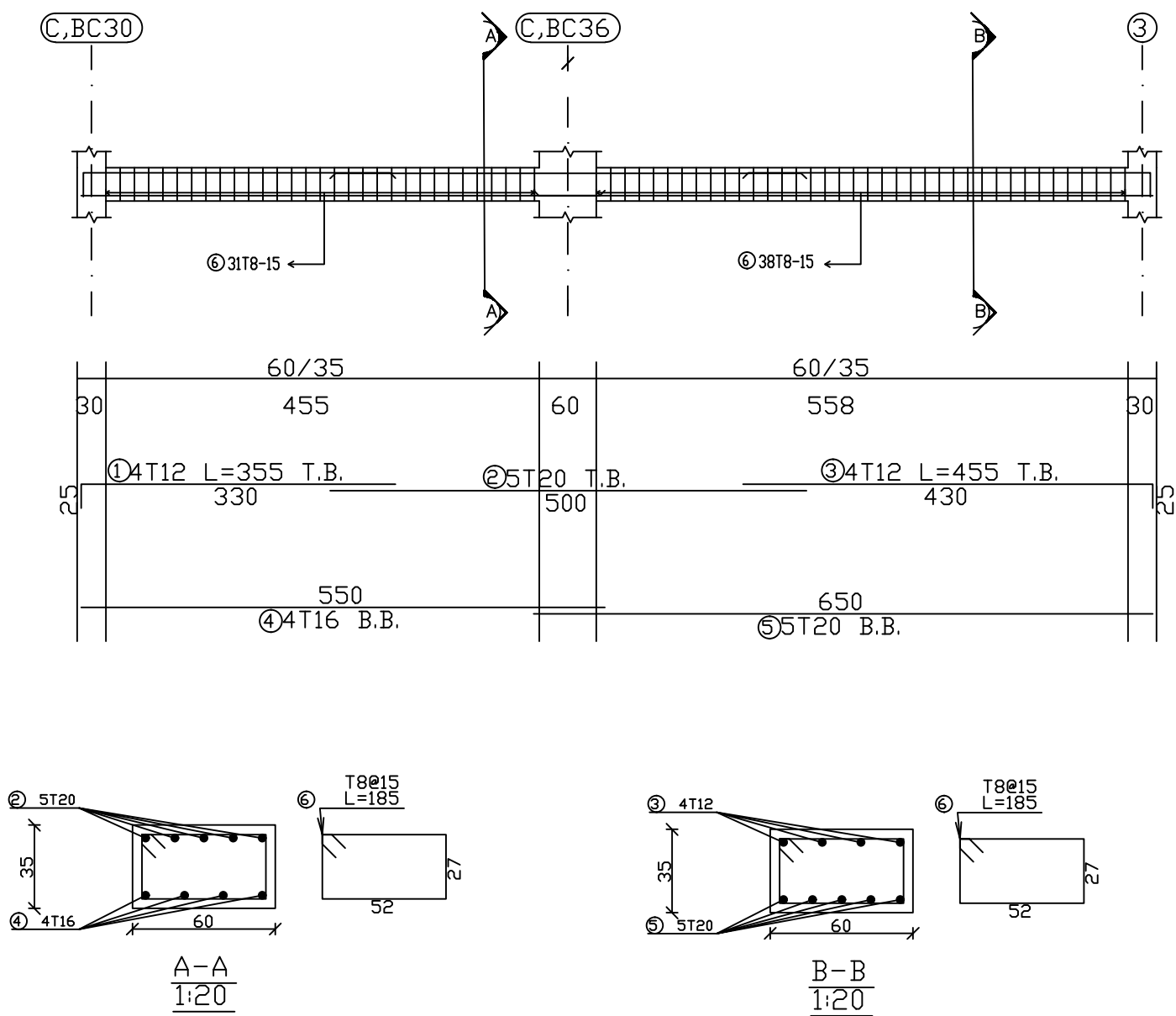
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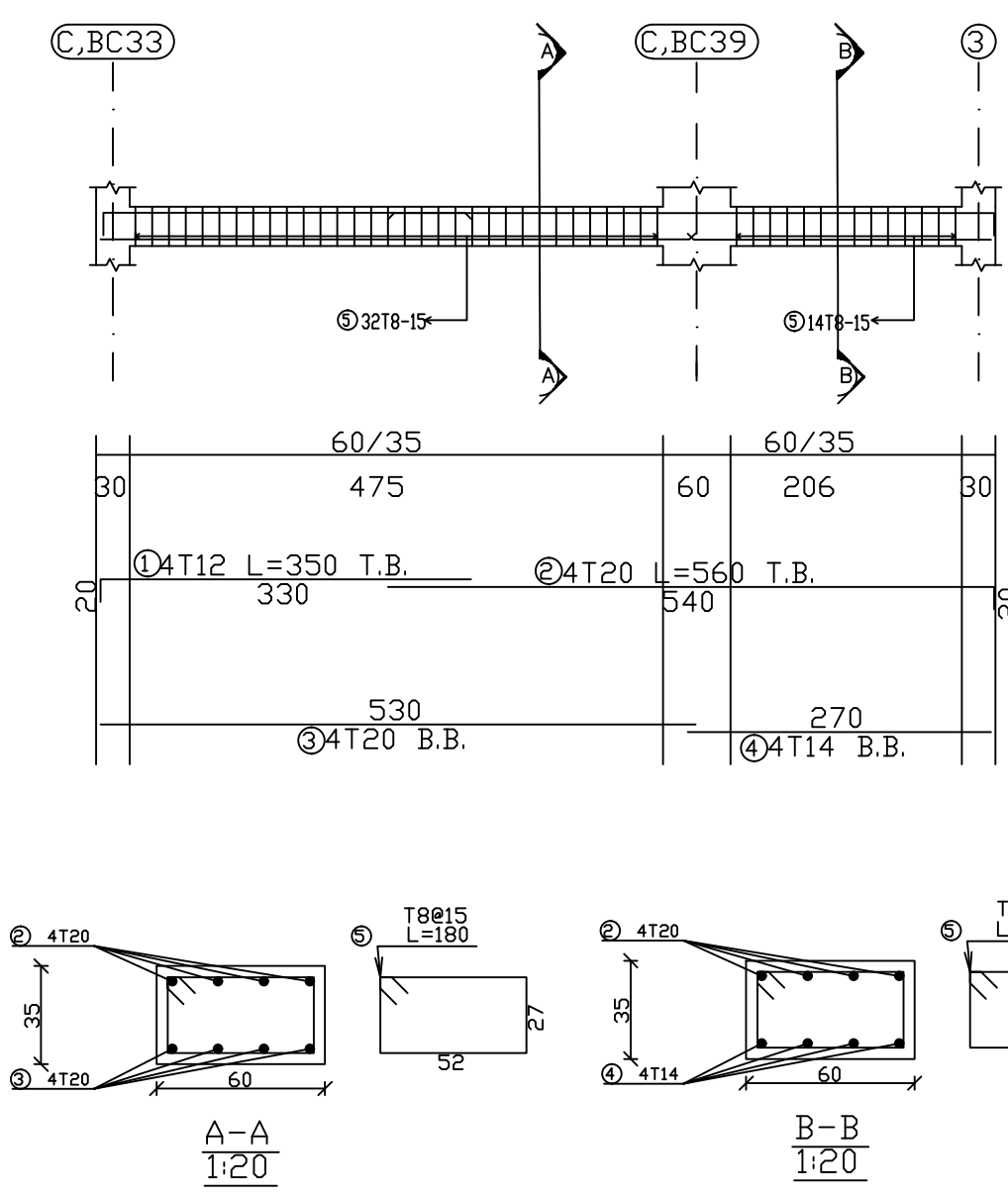
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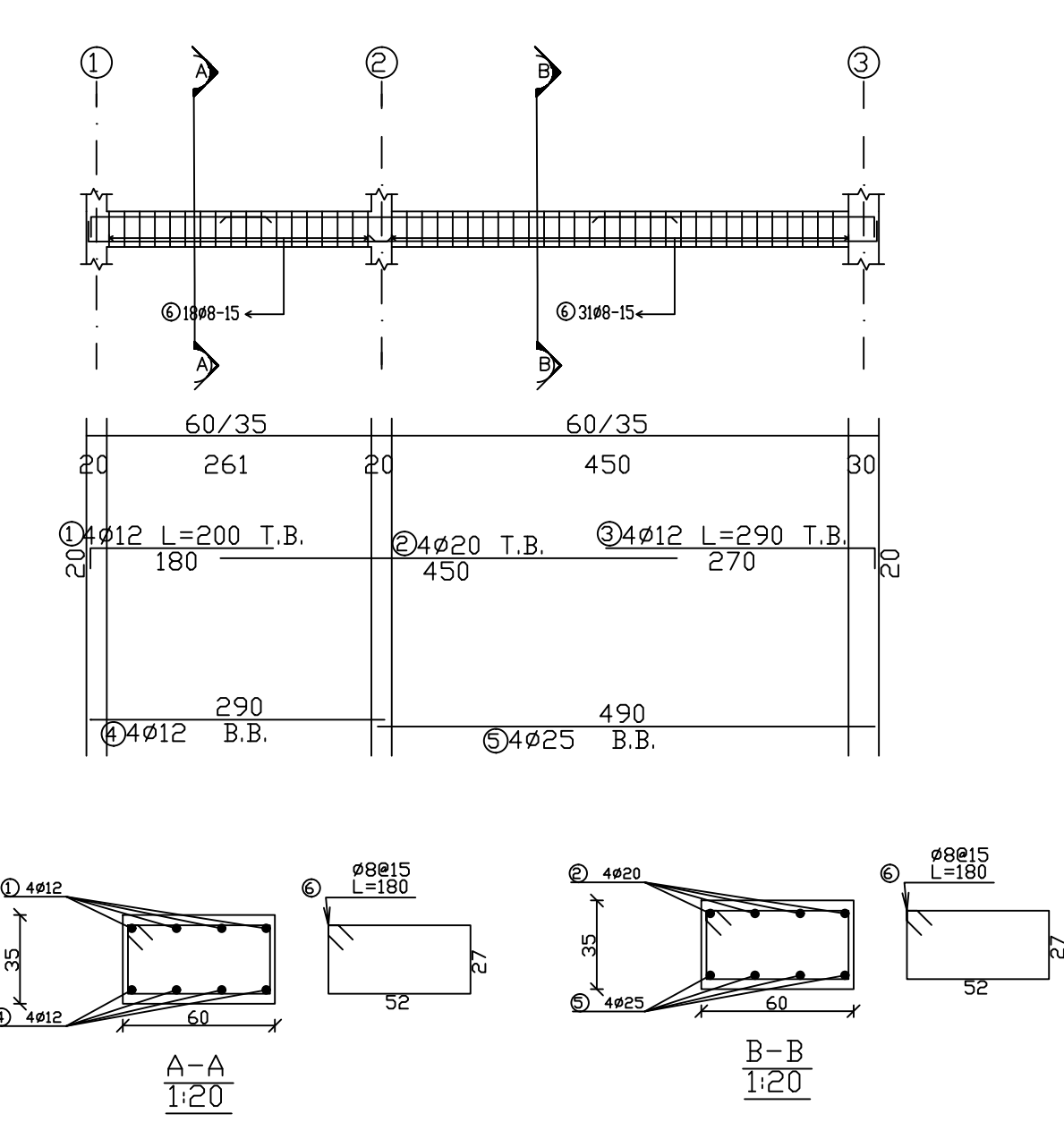
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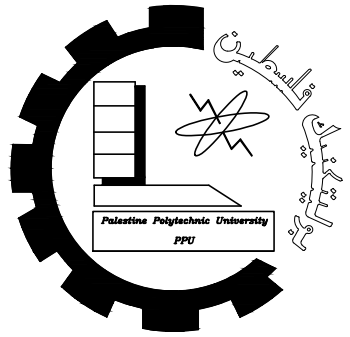
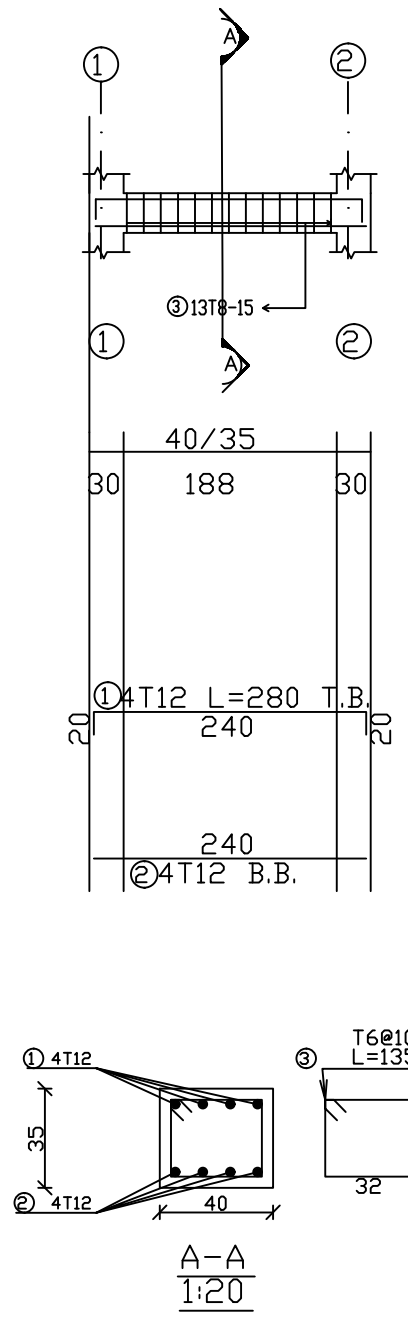
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BEAM21(60 /35)



BEAM23(40 /35)



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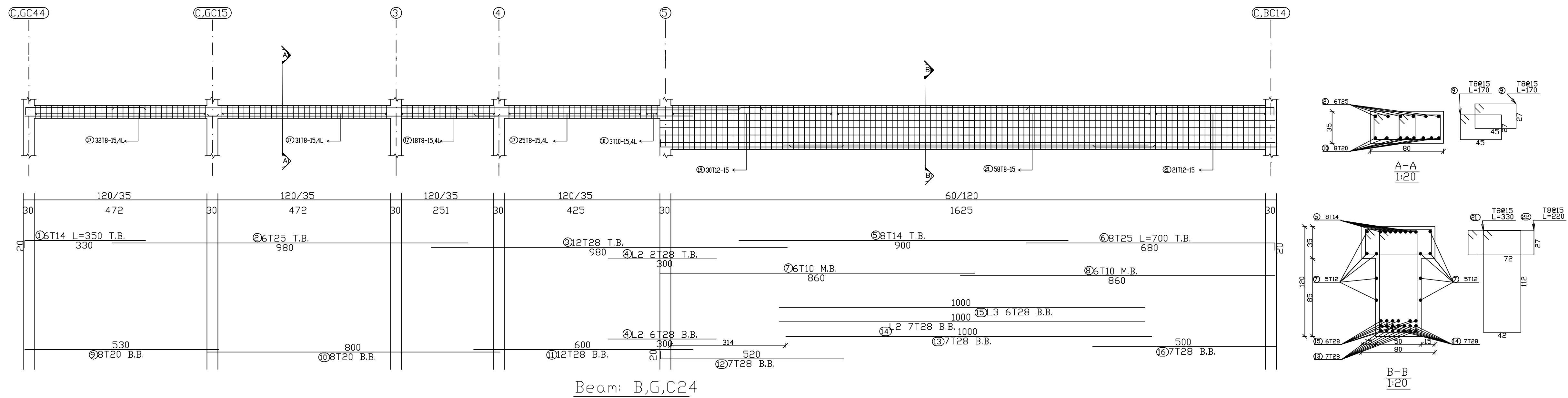
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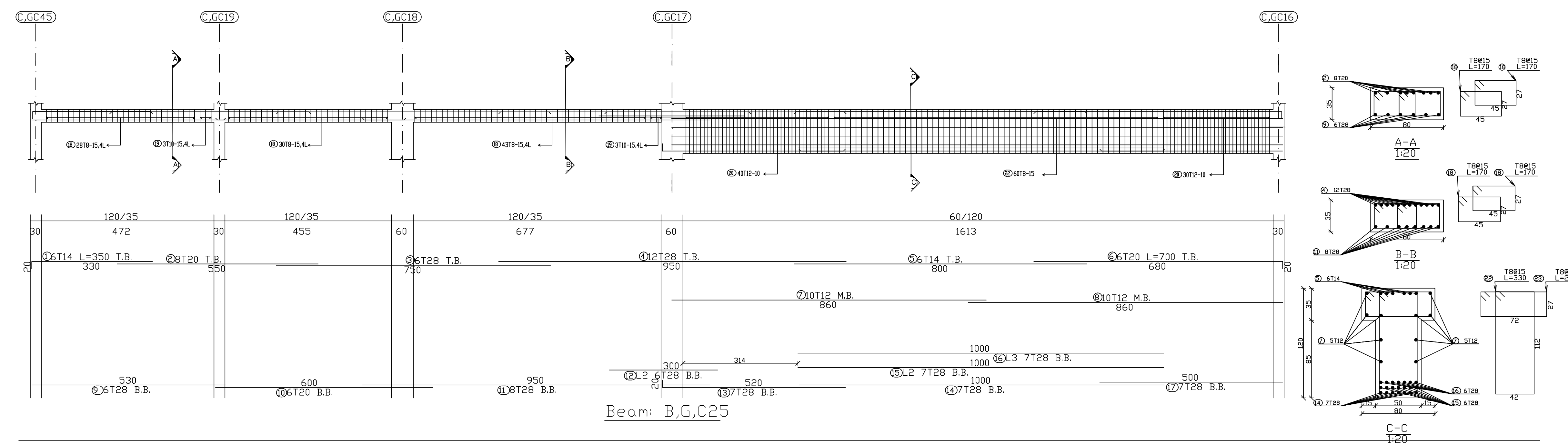
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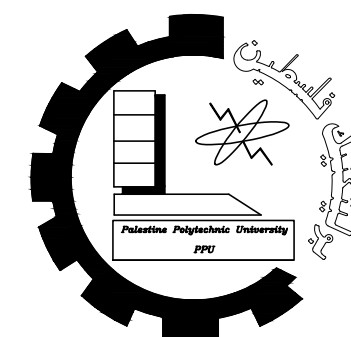
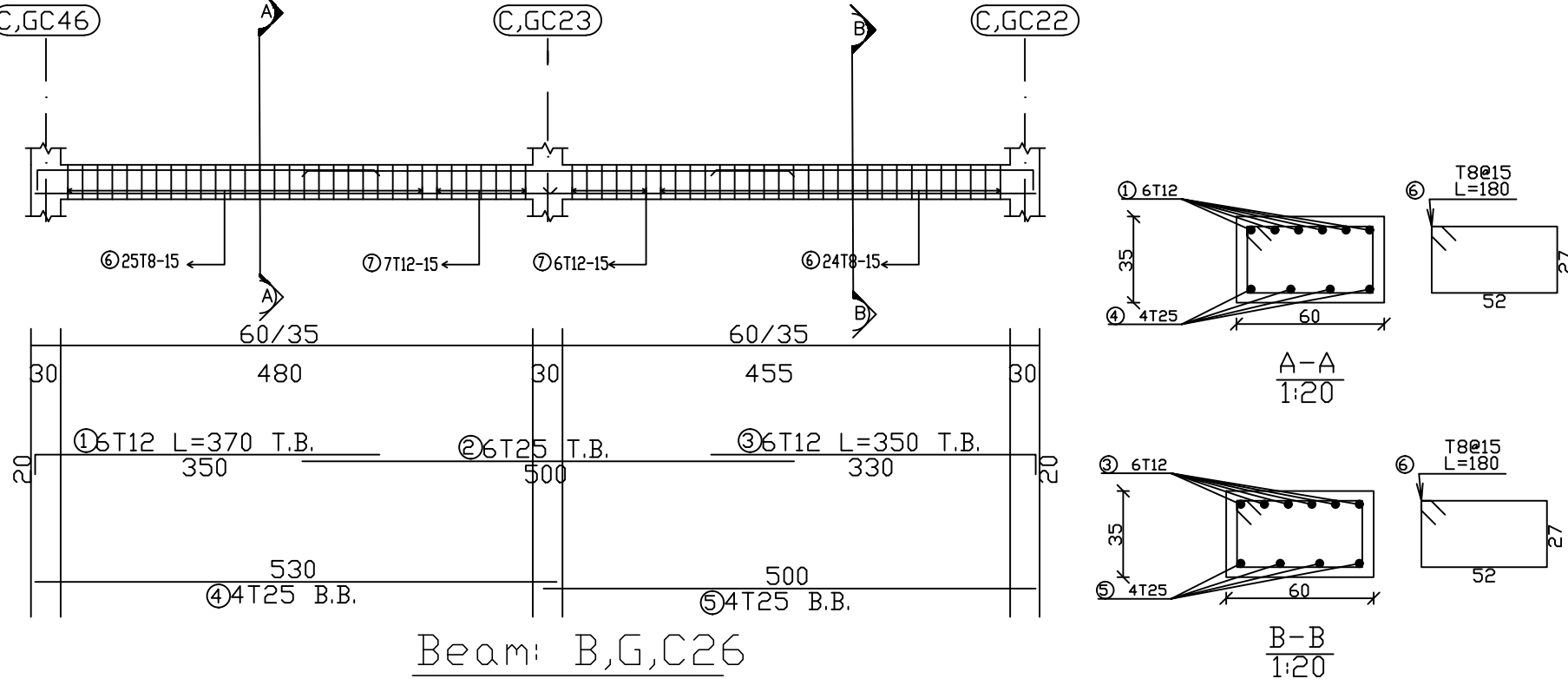
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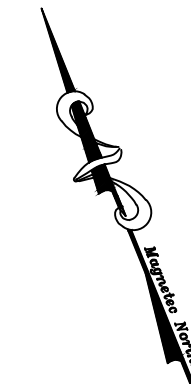
BEAM 25 (80/35 & T120/80)



BEAM26(60 /35)



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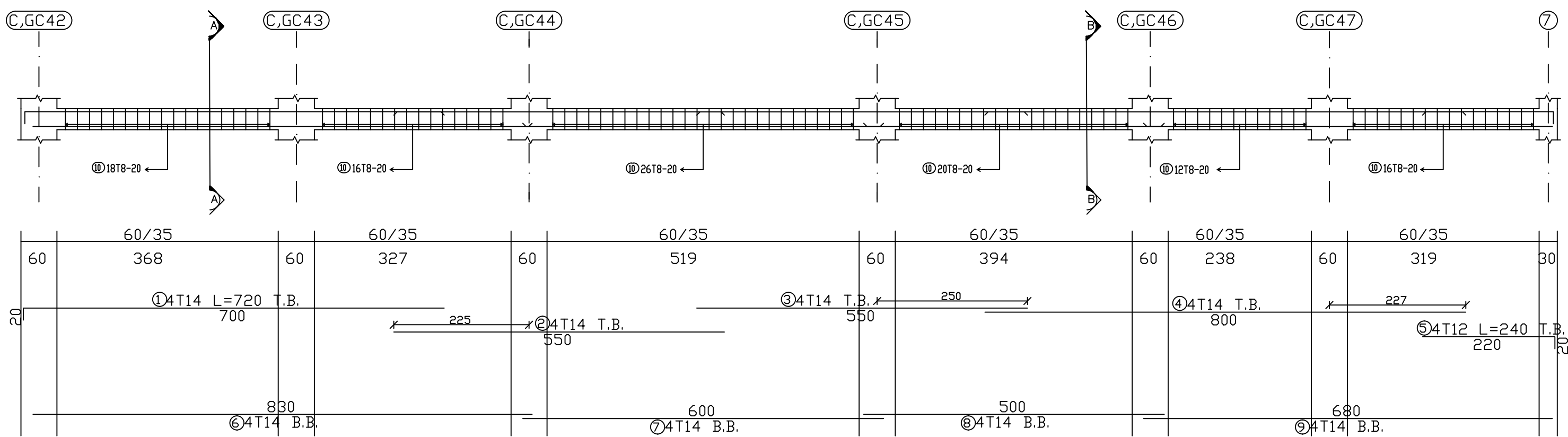
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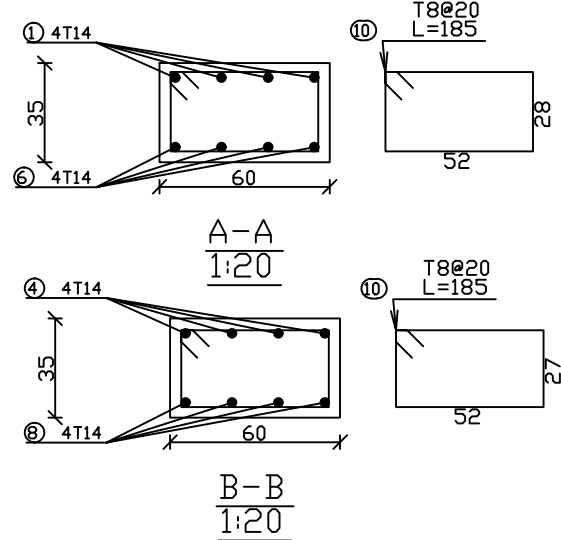
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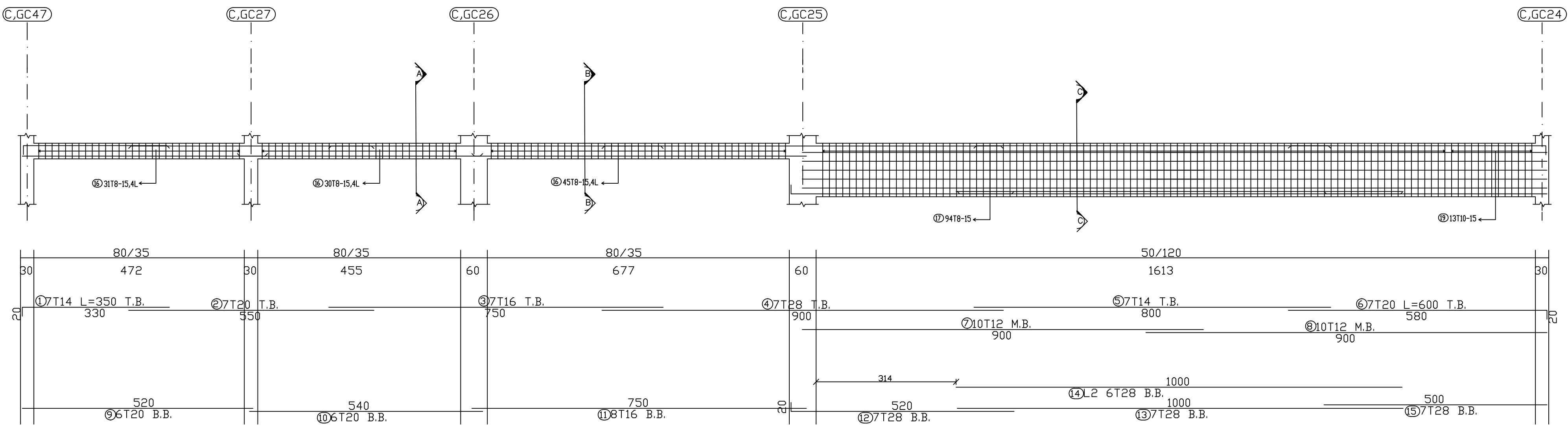
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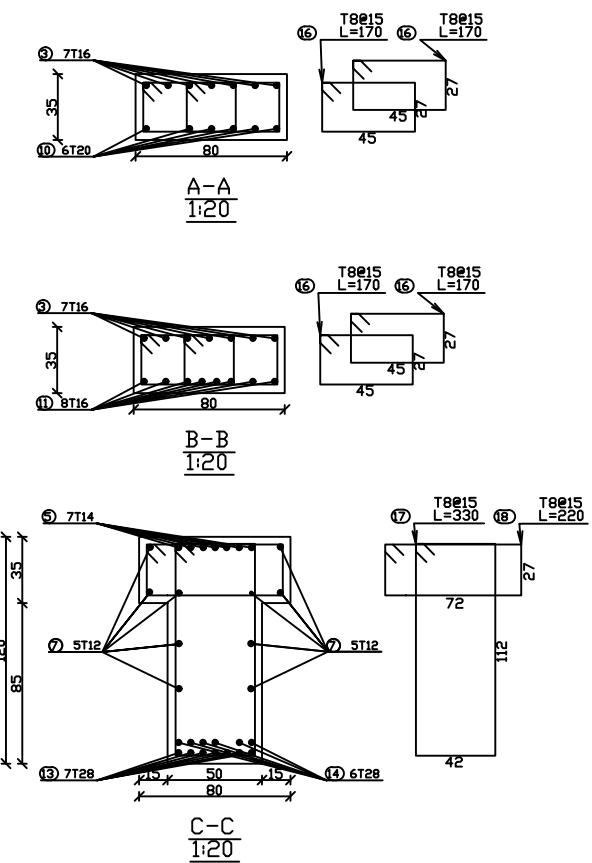
Beam: B,G,C27 & B,F,C27



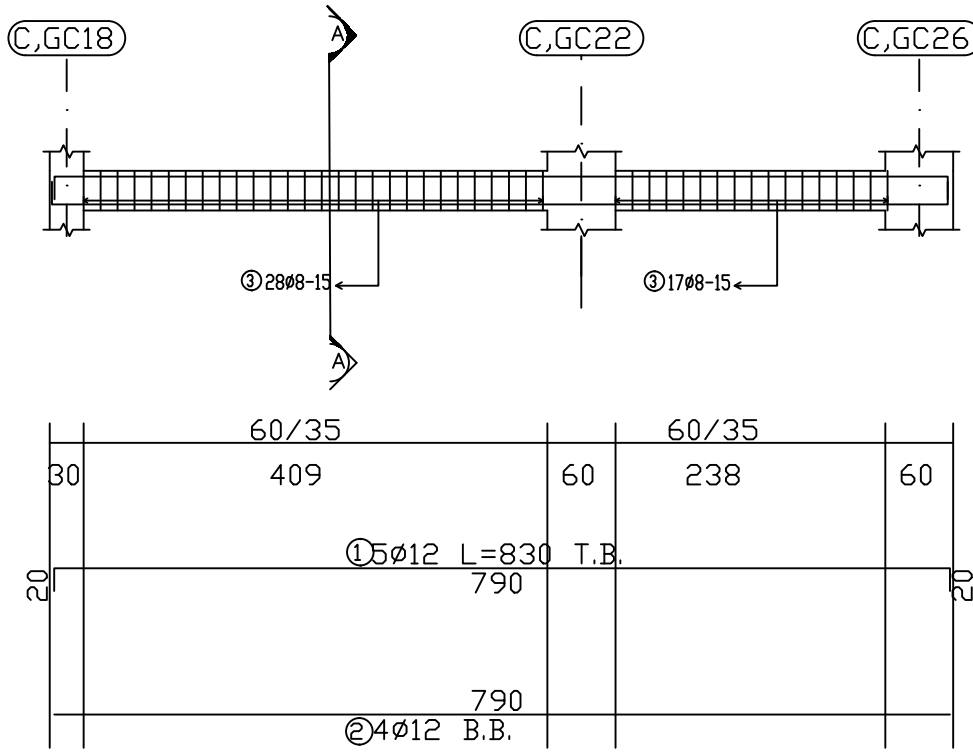
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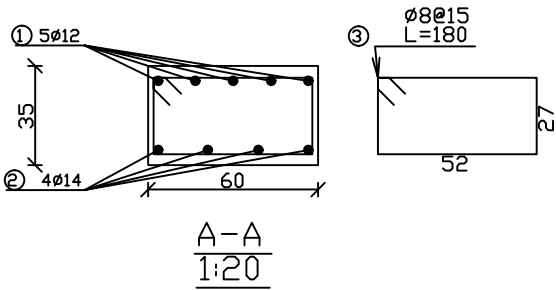
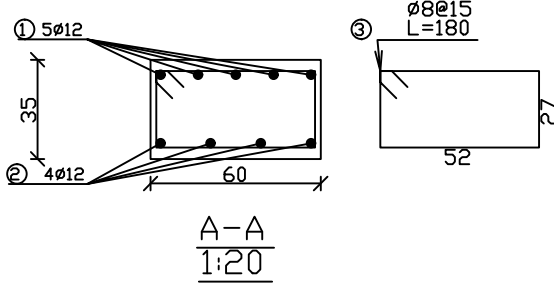
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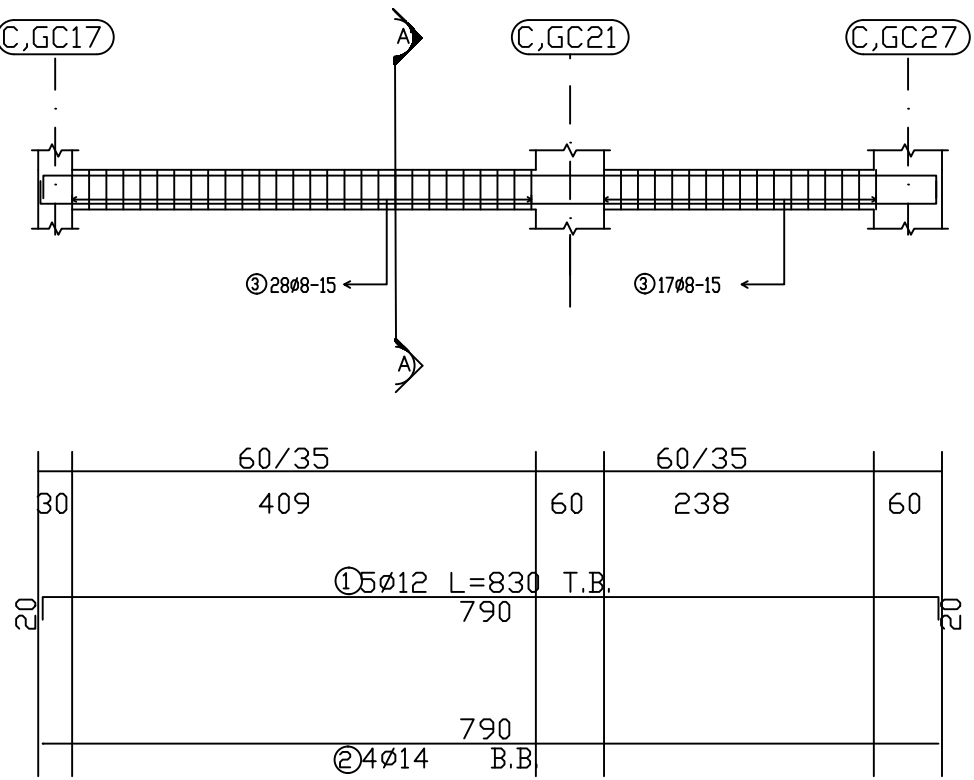
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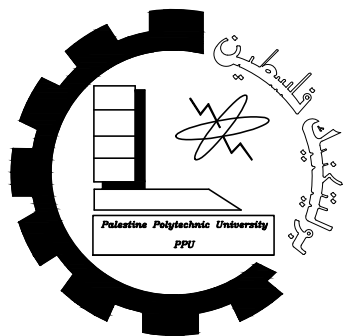
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BEAM30(60 /35)



Beam: B,G,C30 & B,F,C30



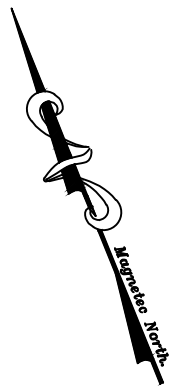
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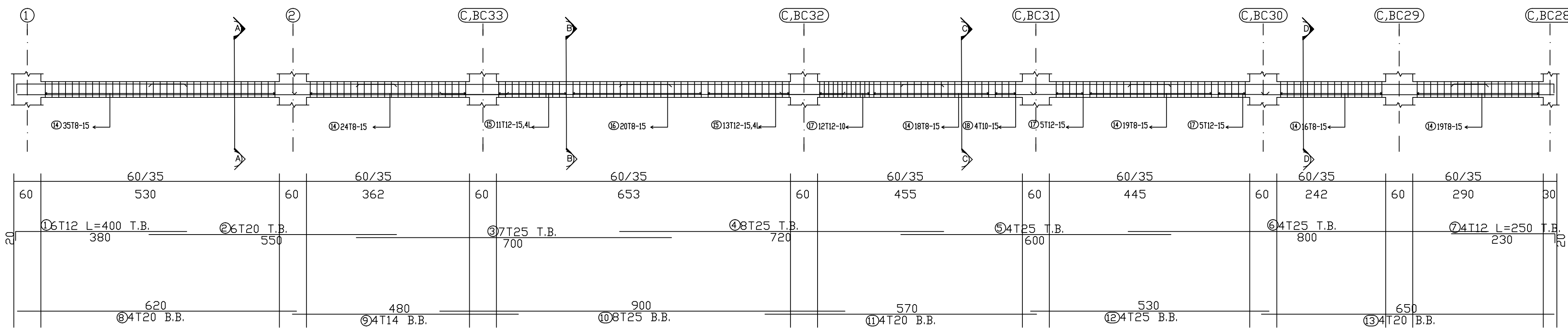
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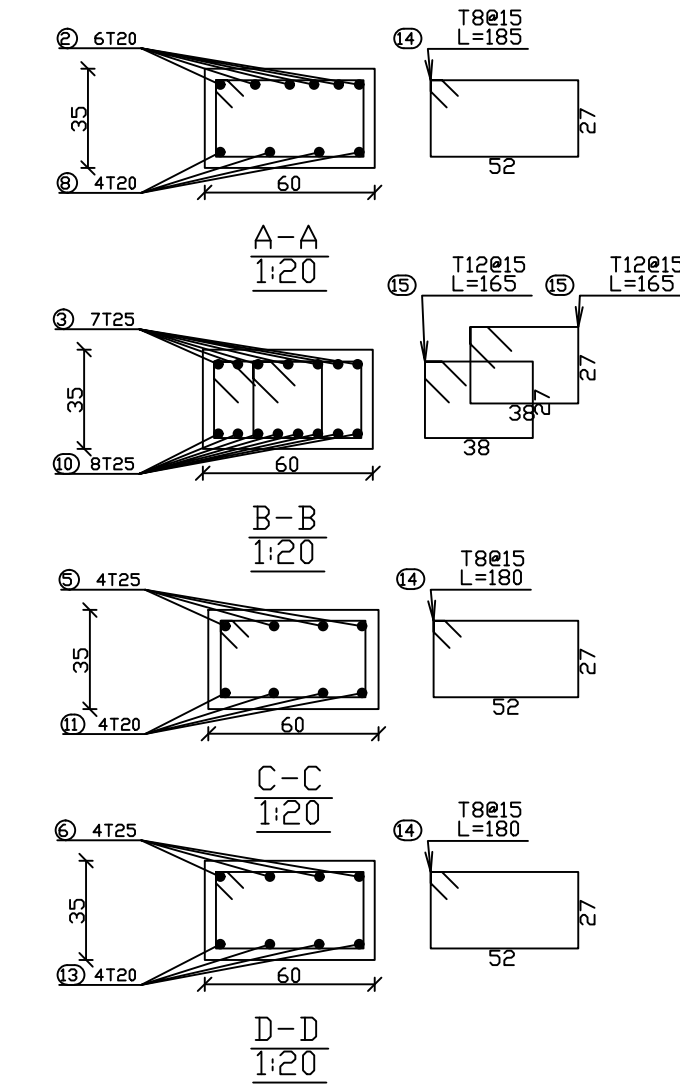
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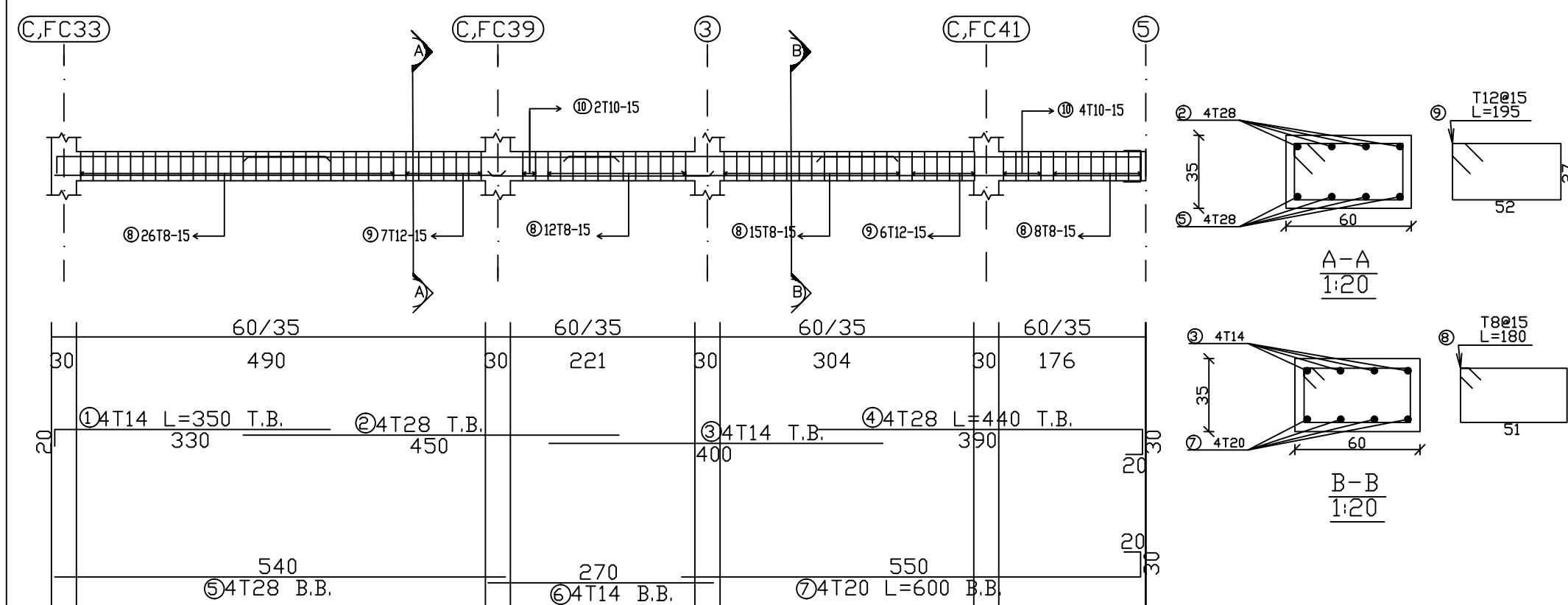
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Beam: B,G,C31 & B,F,C31

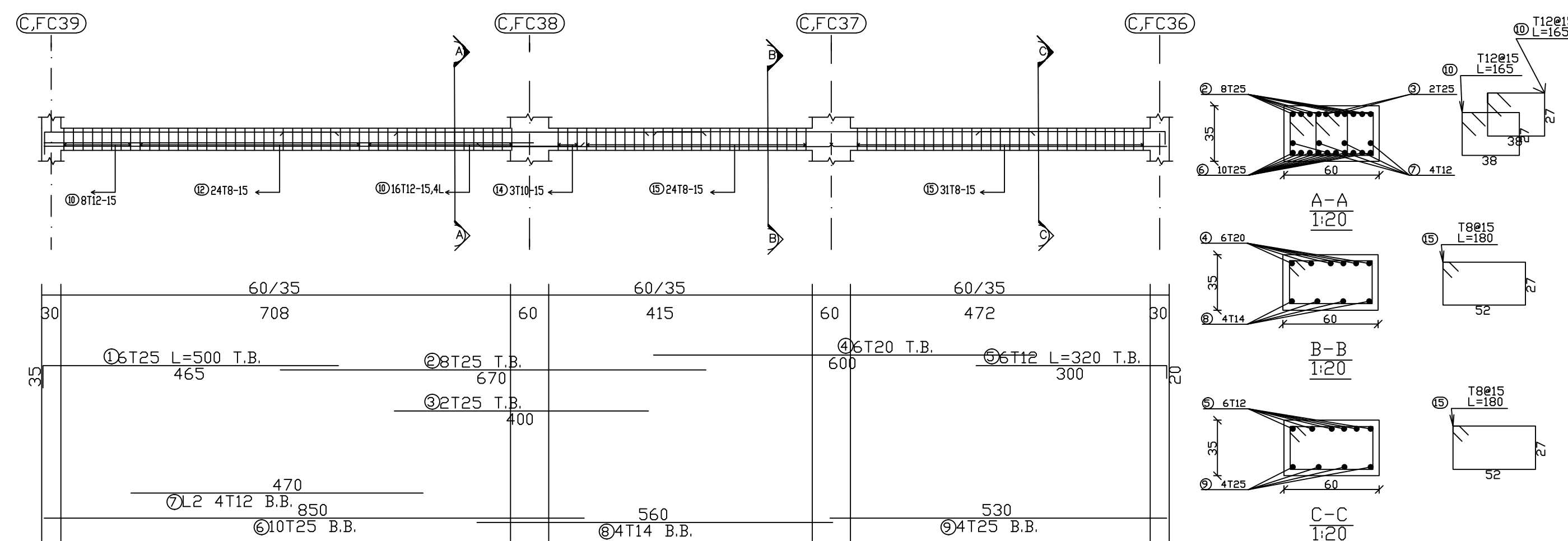


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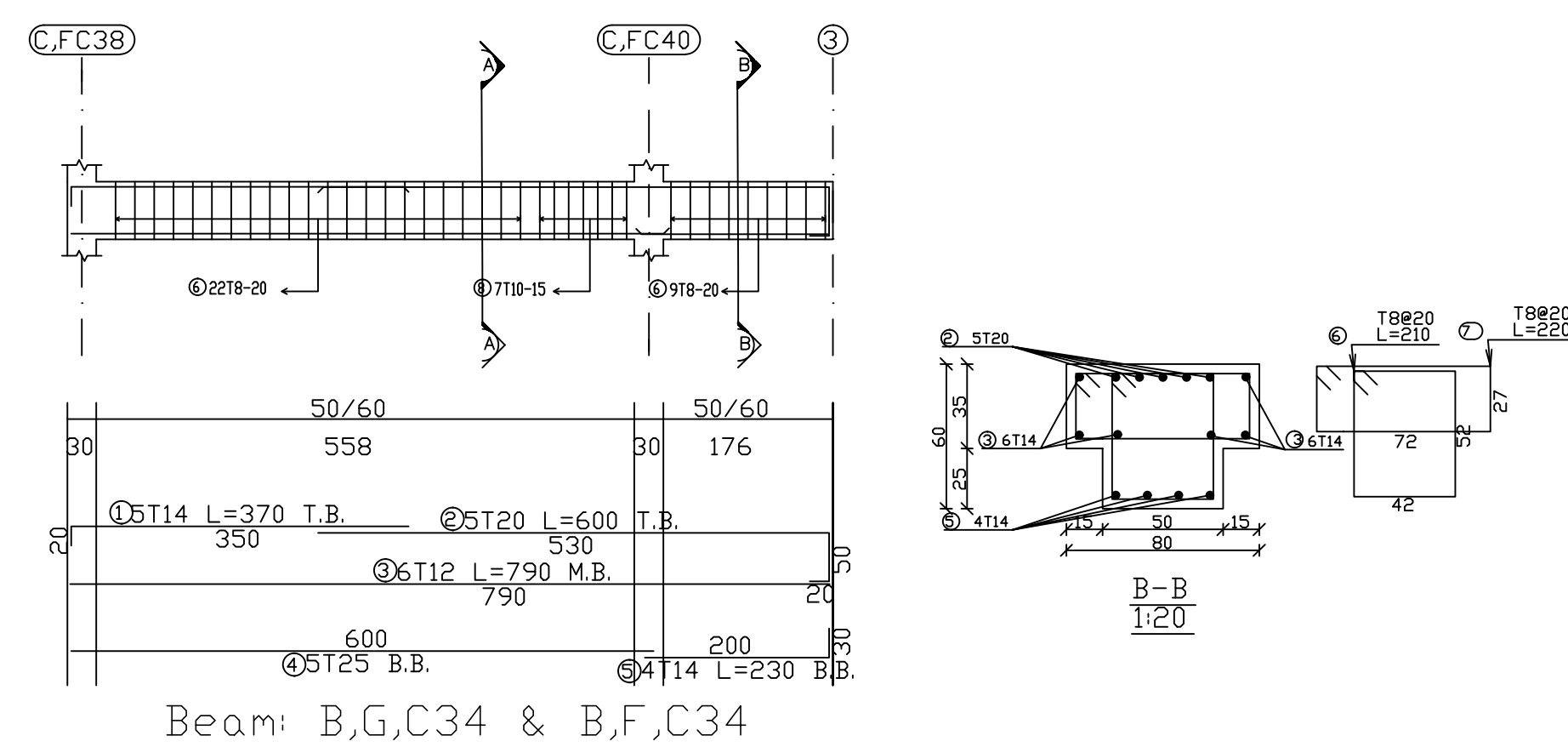
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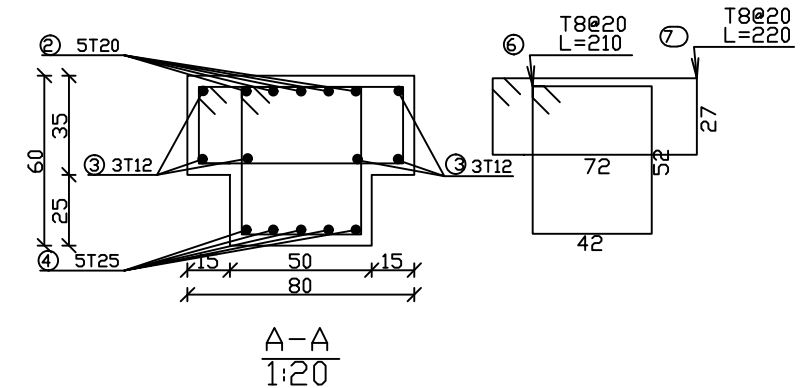


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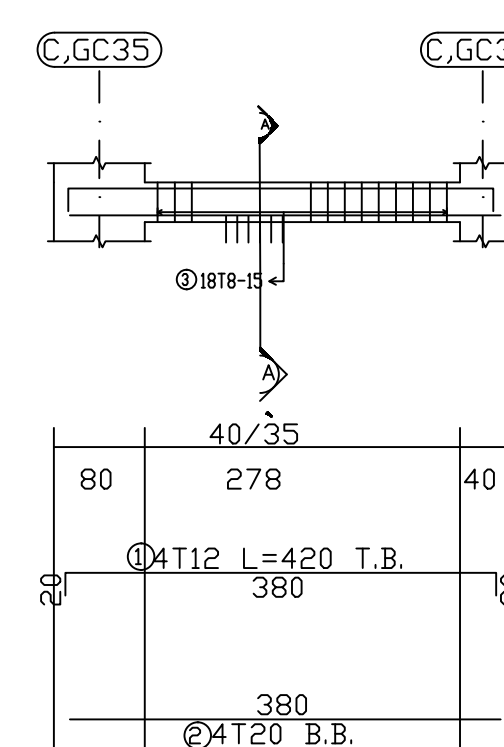
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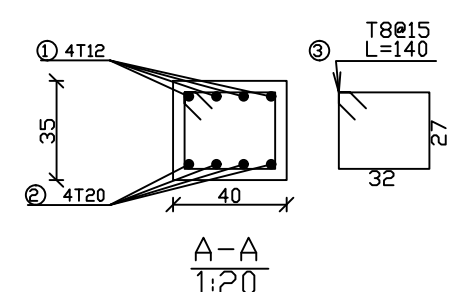
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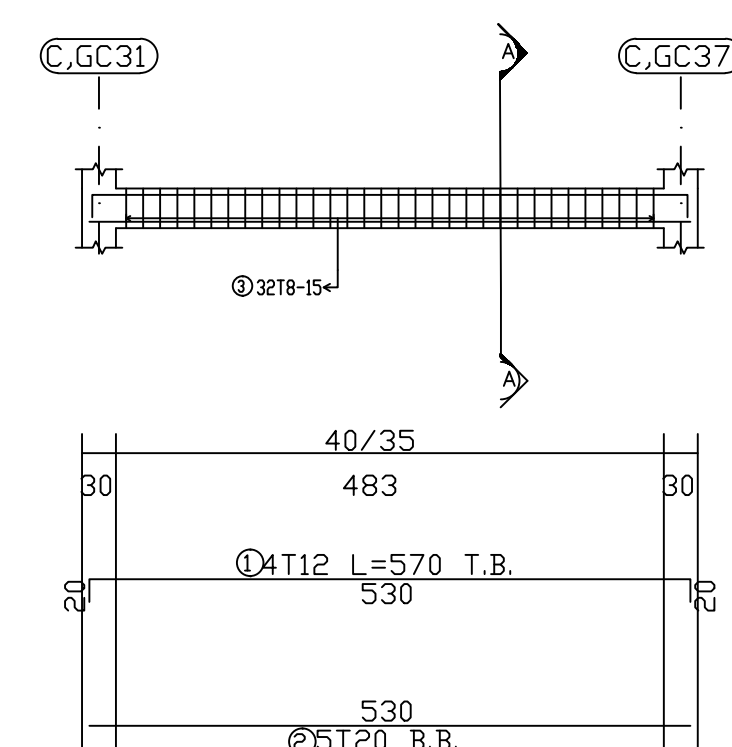
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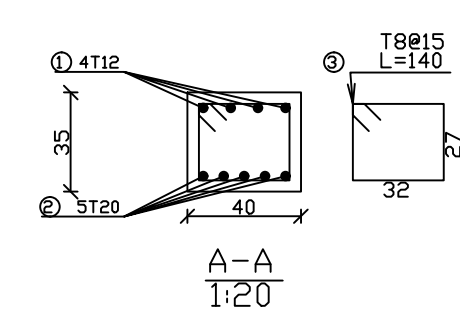
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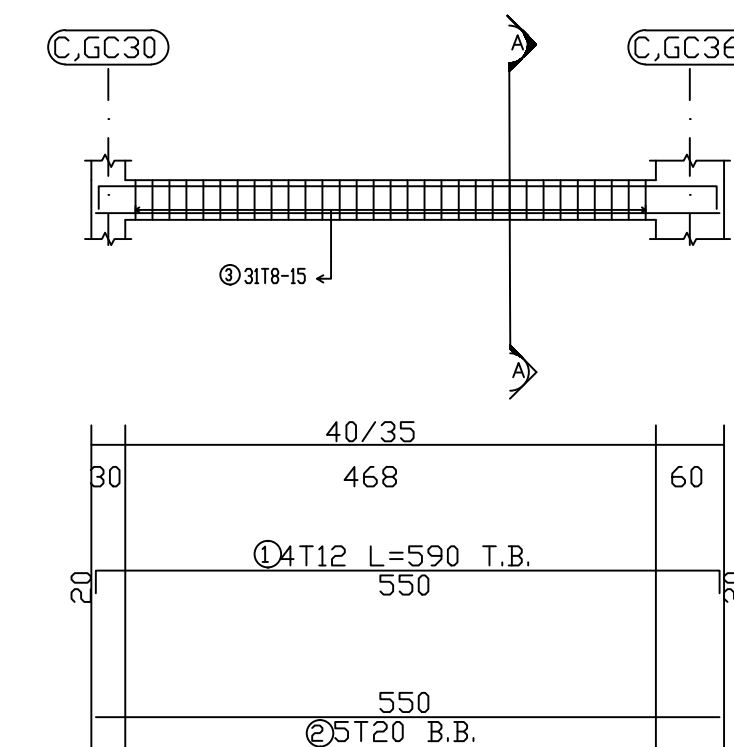
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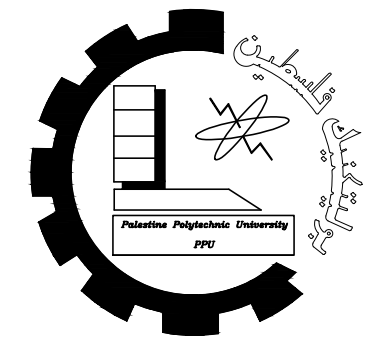
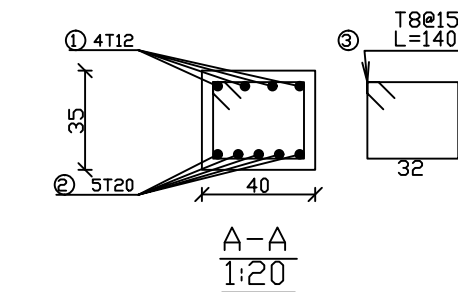
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BEAM37(40/35)



Beam: B,G,C37 & B,F,C37



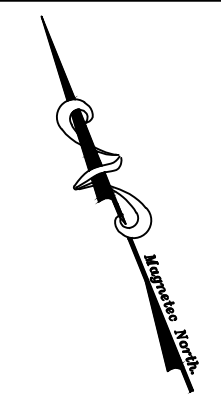
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Duaa Sonqrut

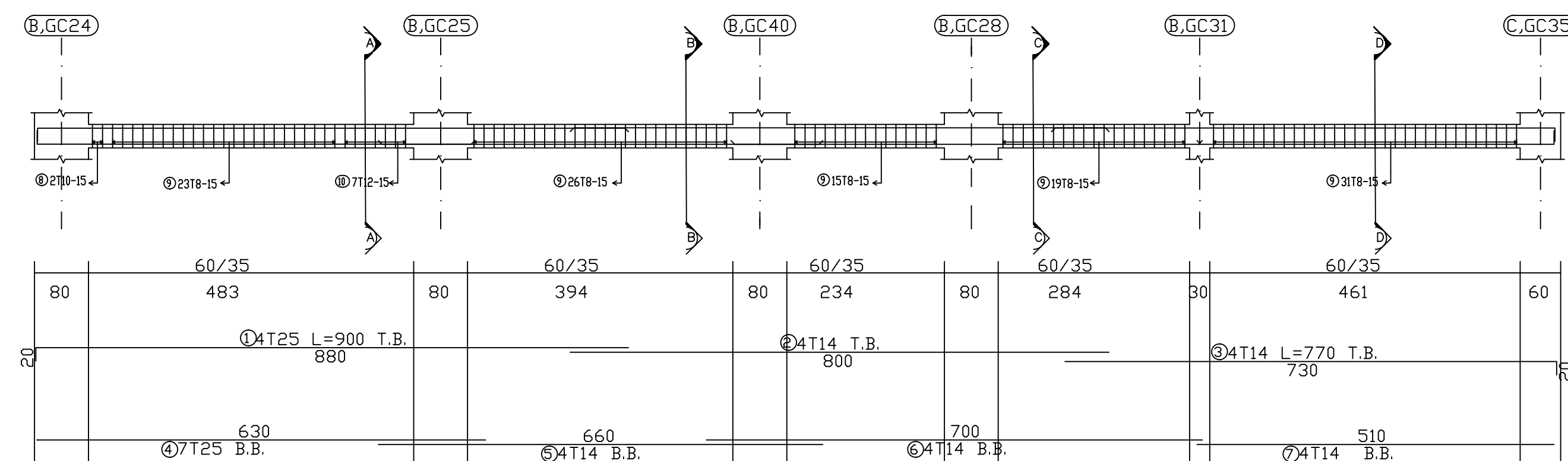
Supervisor:

Eng sufian Al-turk

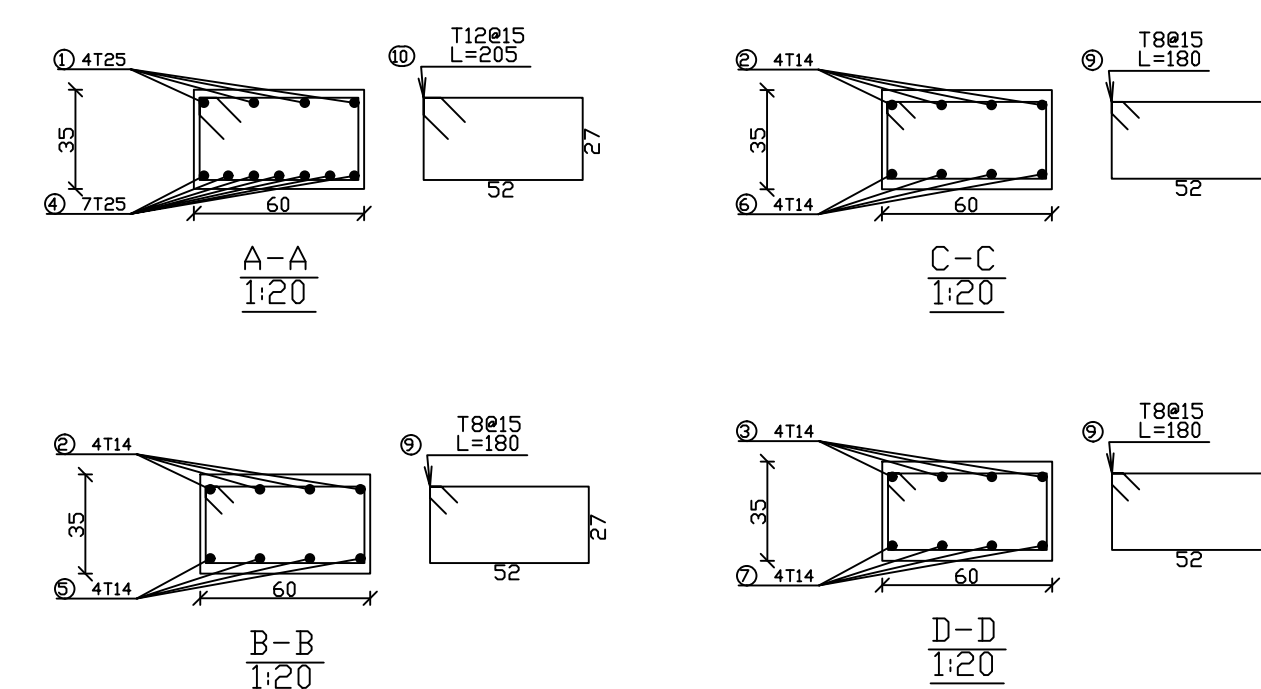
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BEAMS DETAILING IN BUILDING

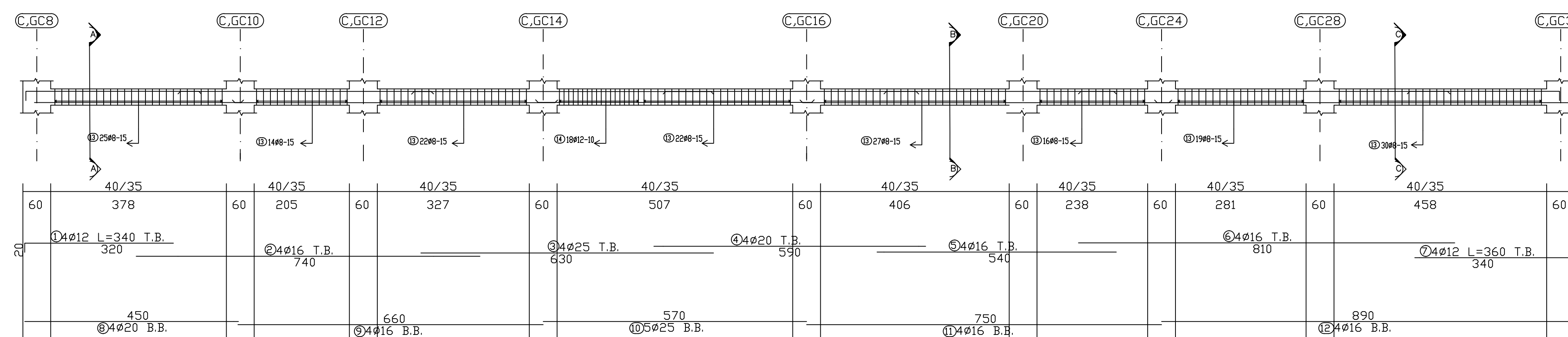
BEAM38(60 /35)



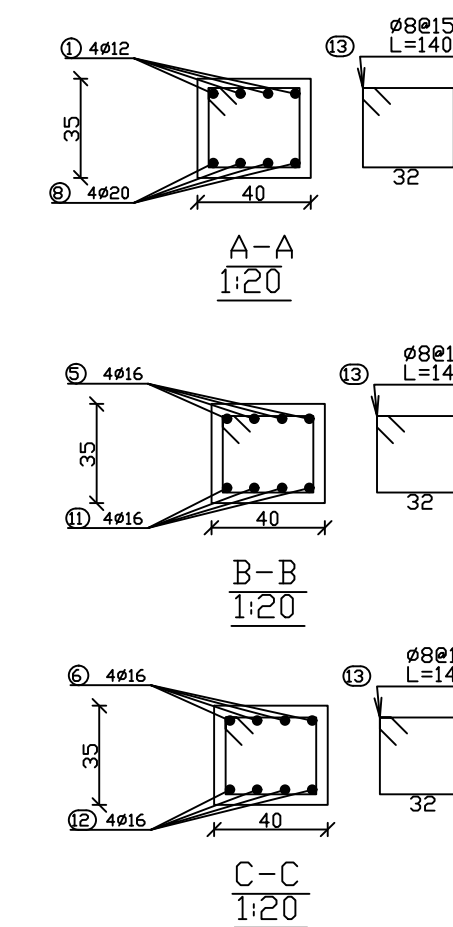
Beam: B,G,C38



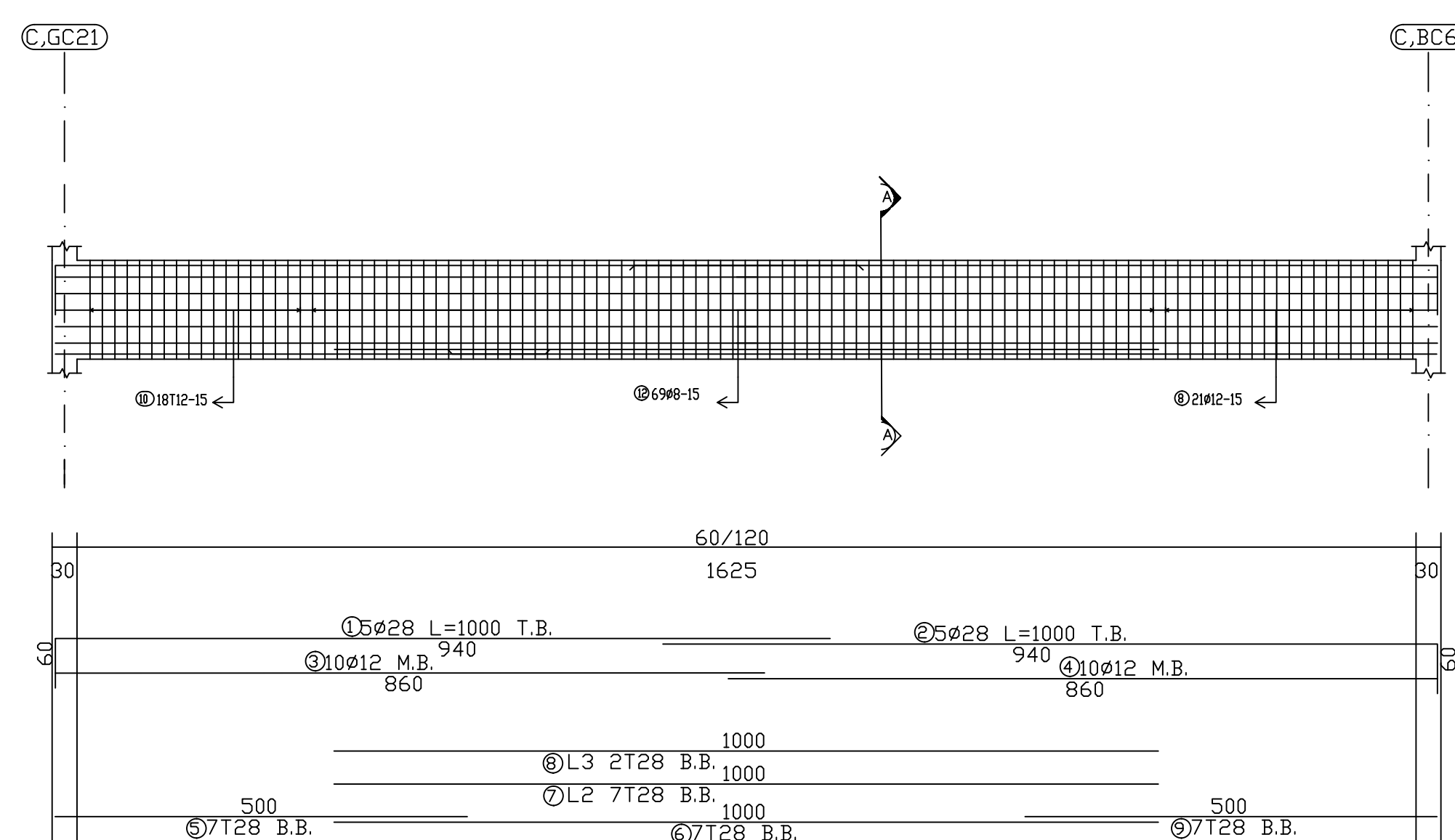
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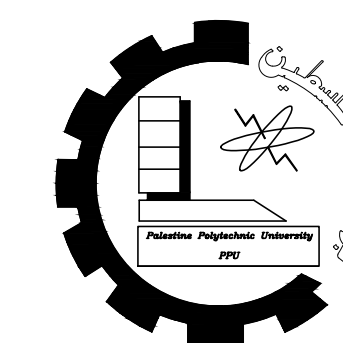
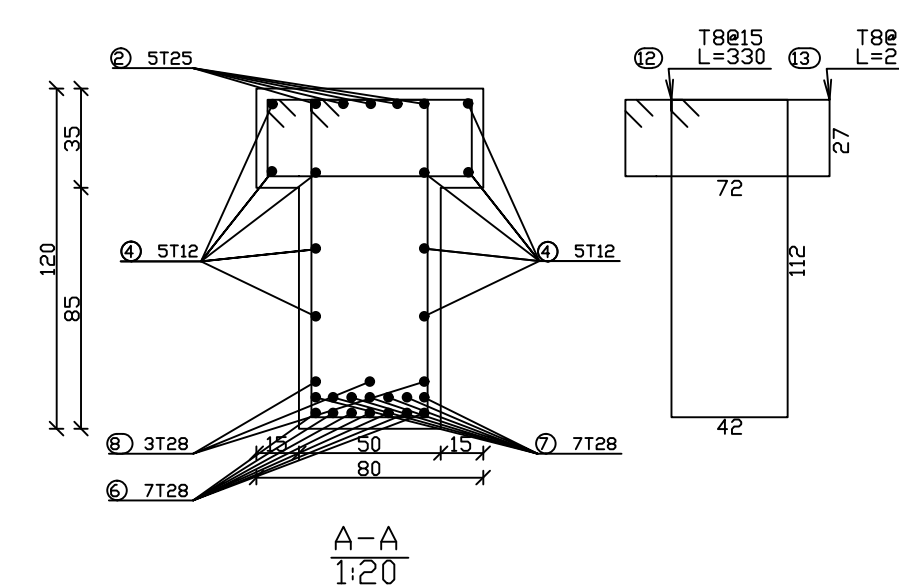
Beam: B,G,C39



BEAM40(T120 /80)



Beam: B,G,C40



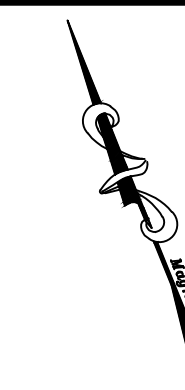
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Department Of Construction
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Civil Engineering

Graduation Project



Project name:

Development and design of Land

in Palestine Technical College(AL-Arroub)

1/75

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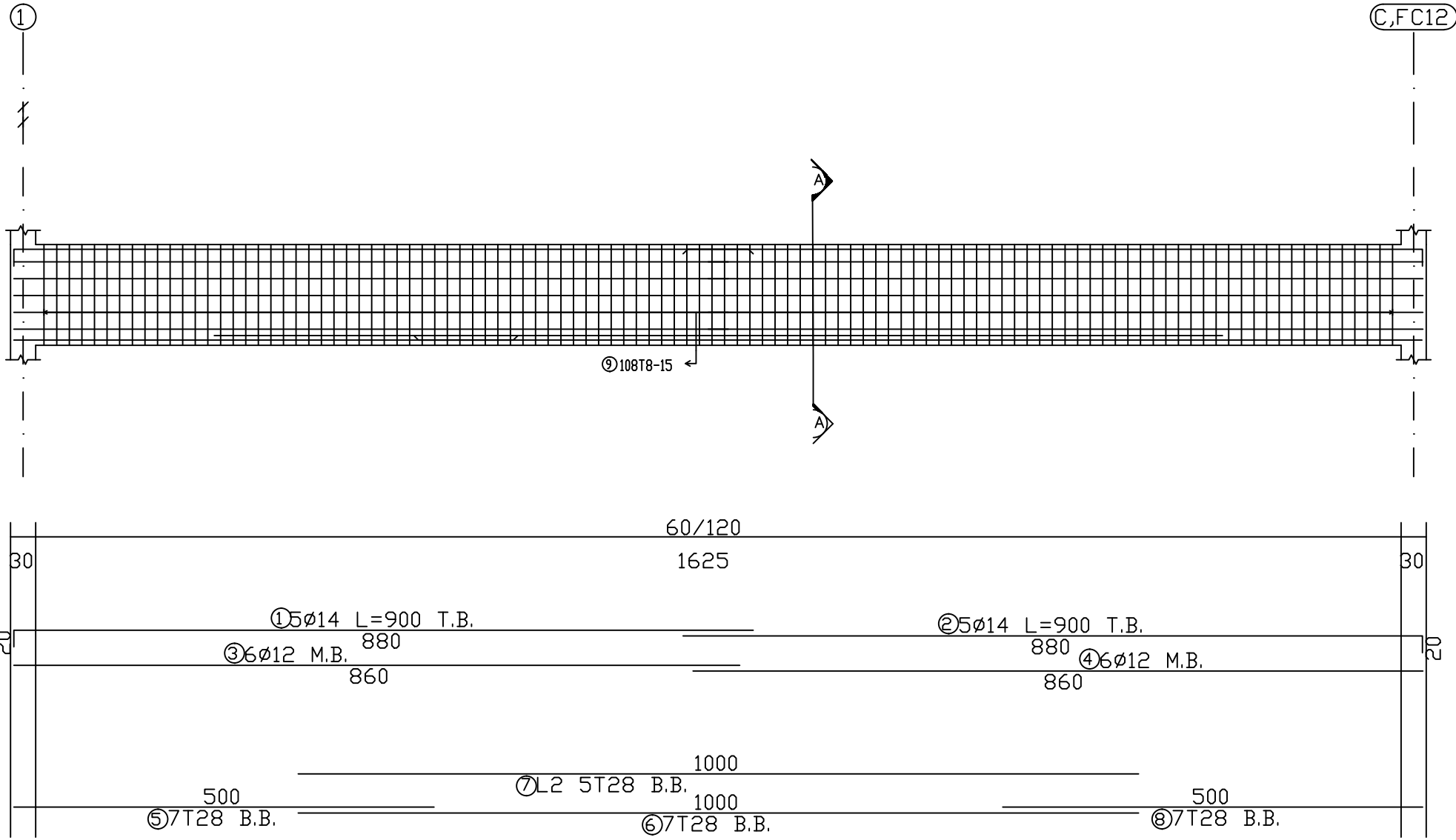
Supervisor:

Eng sufian Al-turk

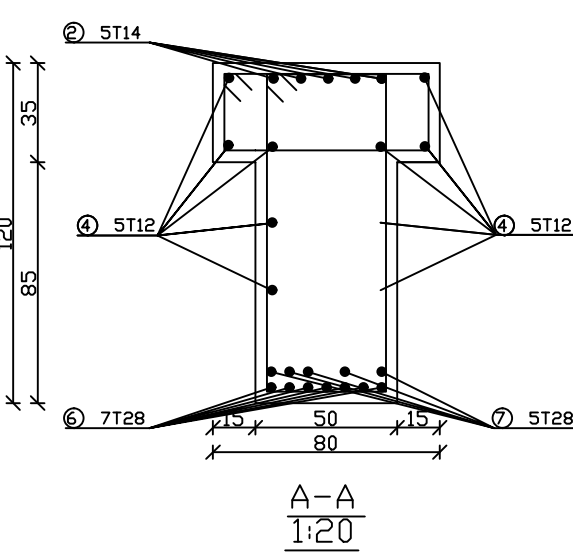
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BEAMS DETAILING IN BUILDING

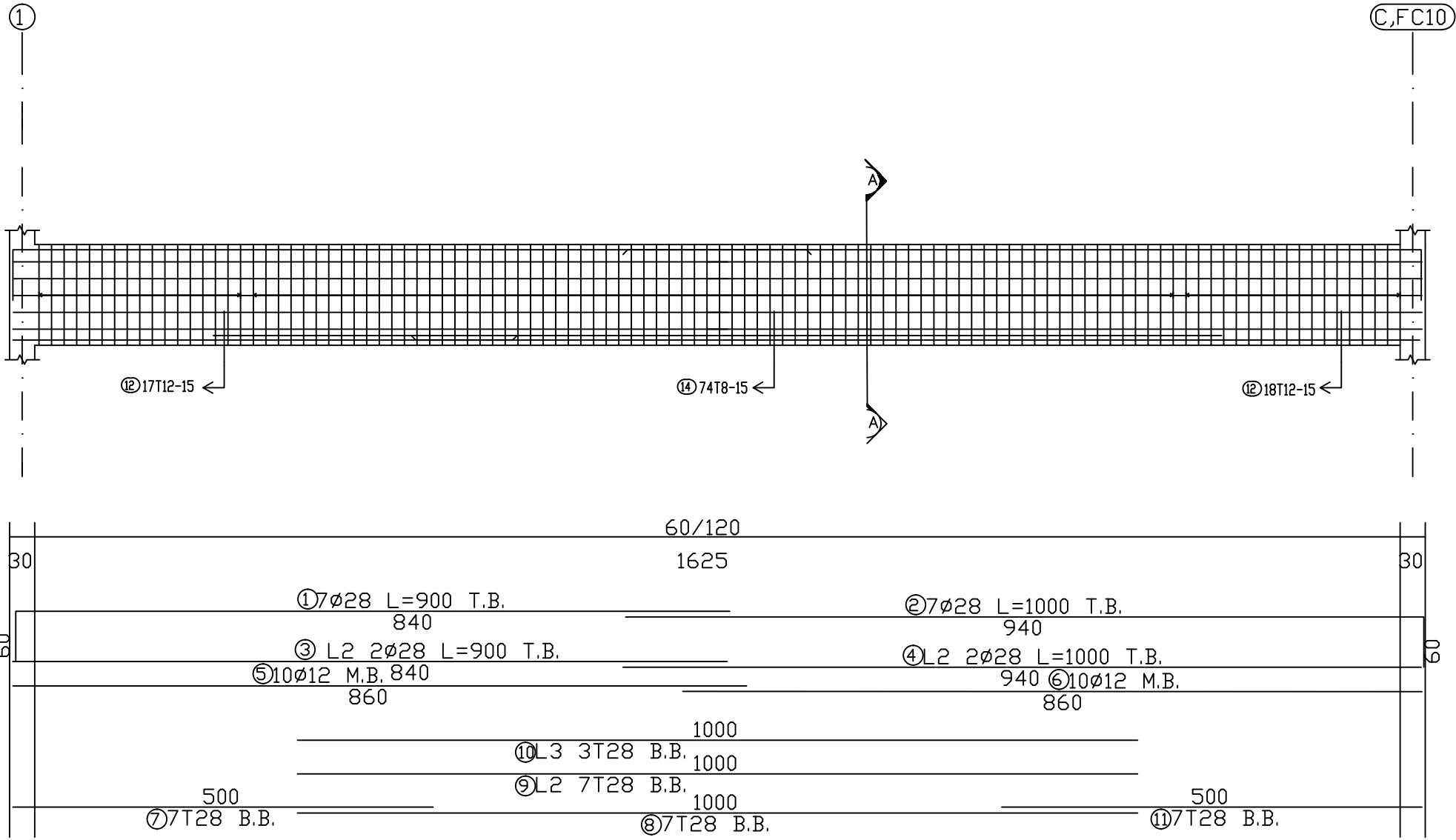
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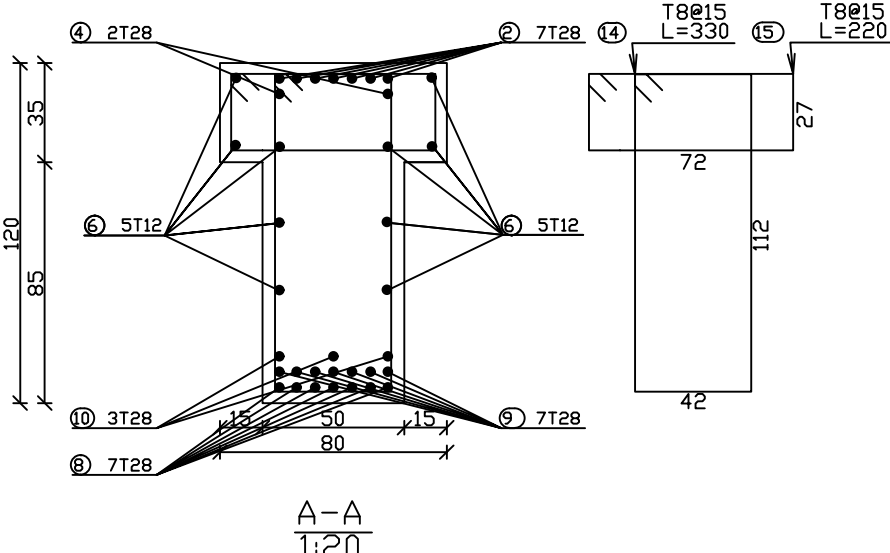
Beam: B,G,C41



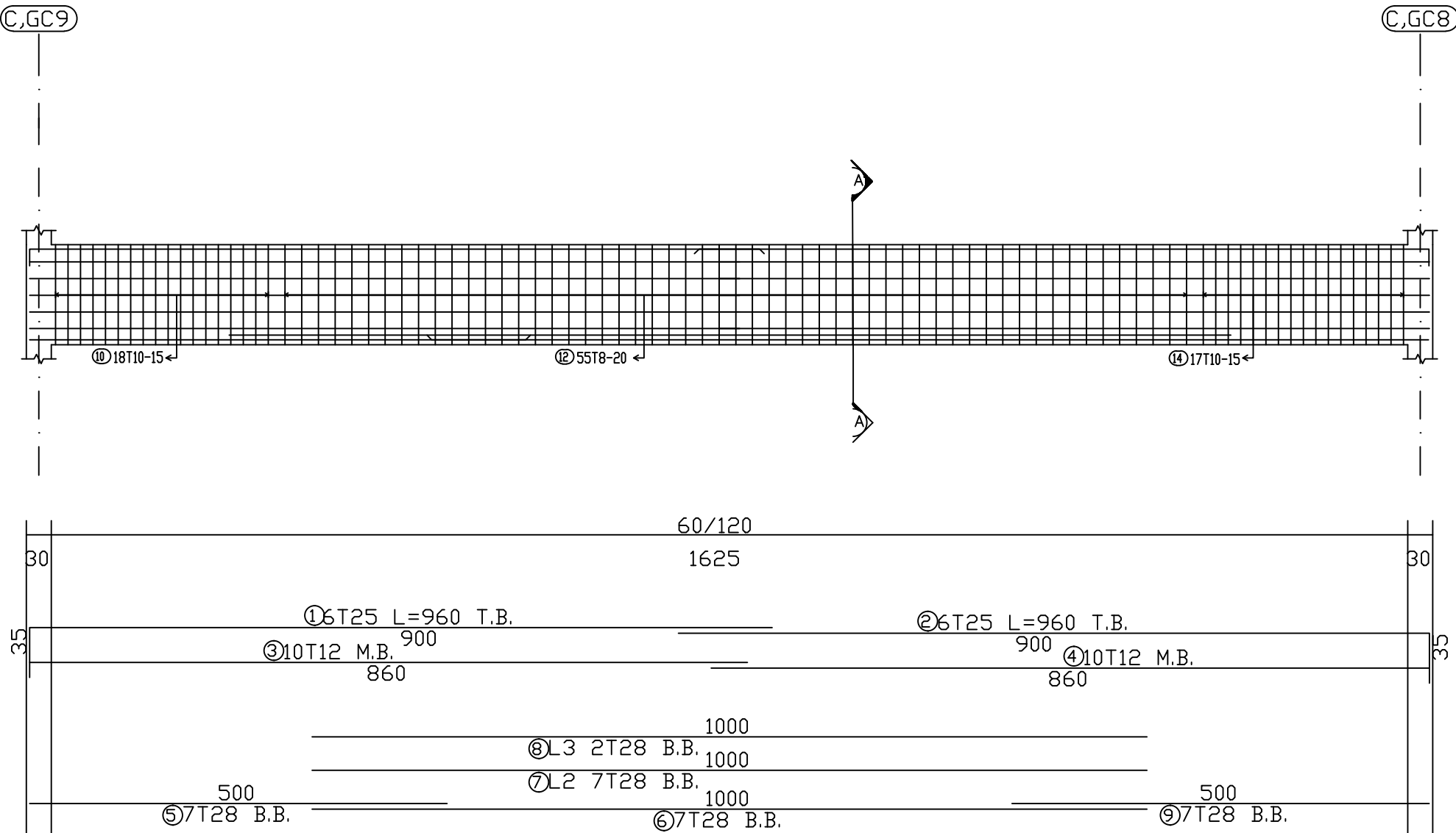
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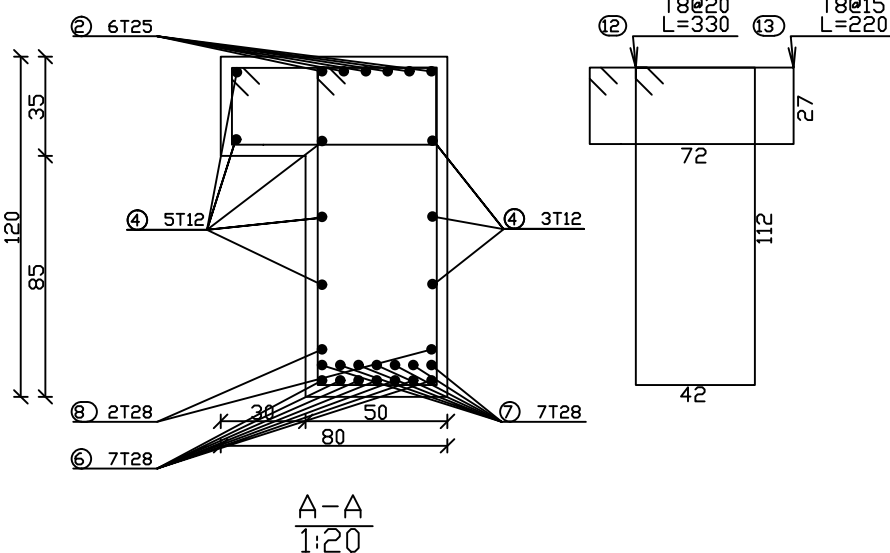
Beam: B,G,C42



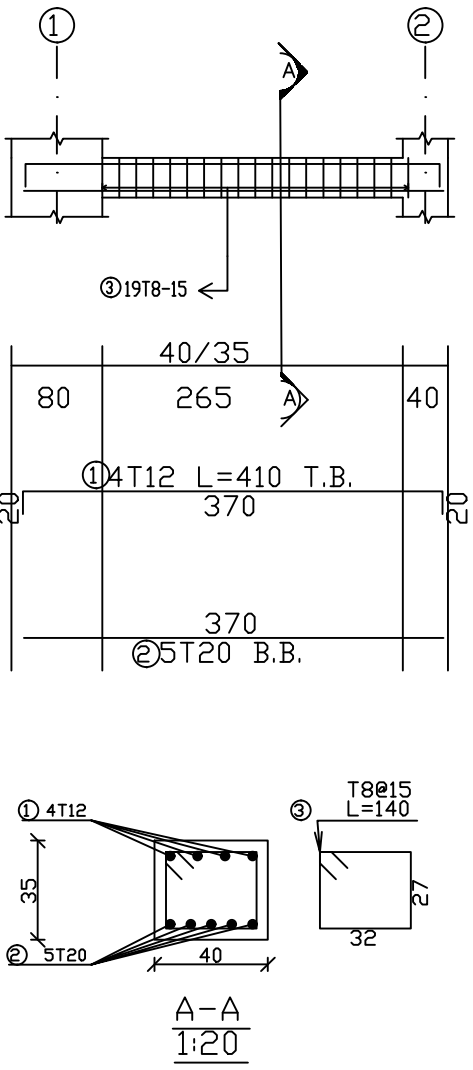
BEAM43(L120 /80)



Beam: B,G,C43

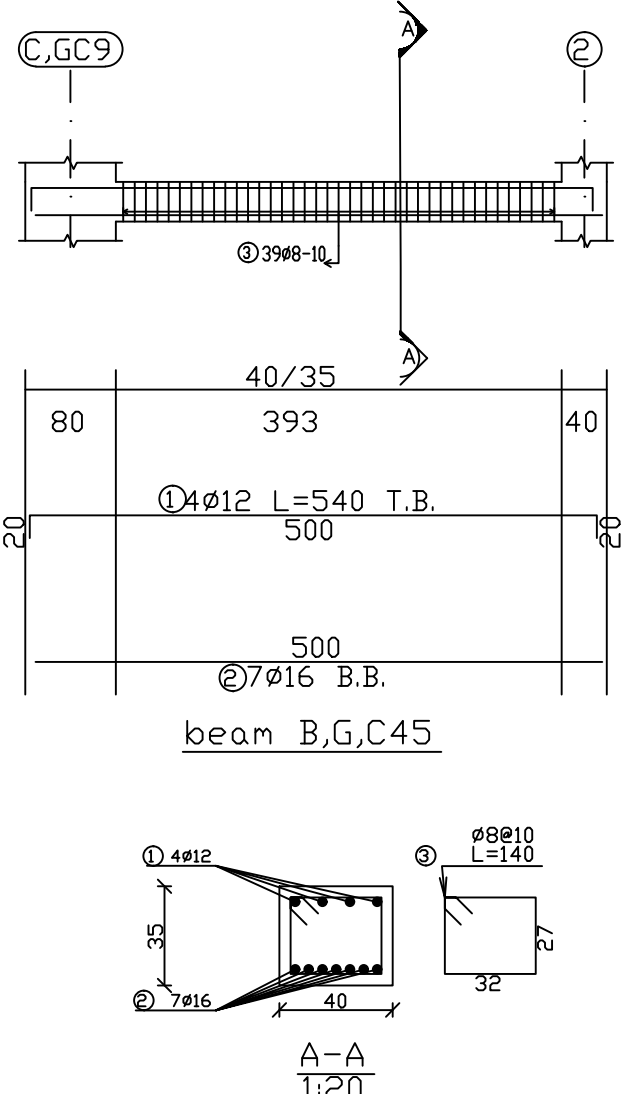


BEAM44(40 /35)

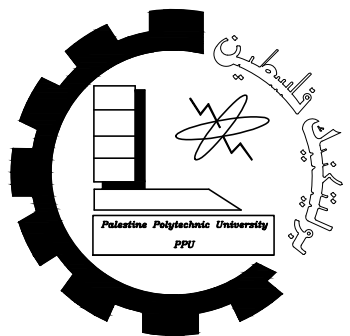


Beam: B,G,C44

BEAM45(40 /35)



Beam: B,G,C45



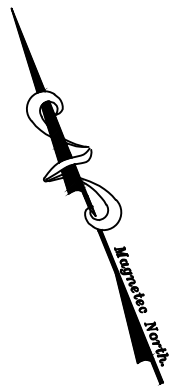
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Supervisor:

Eng sufian Al-turk

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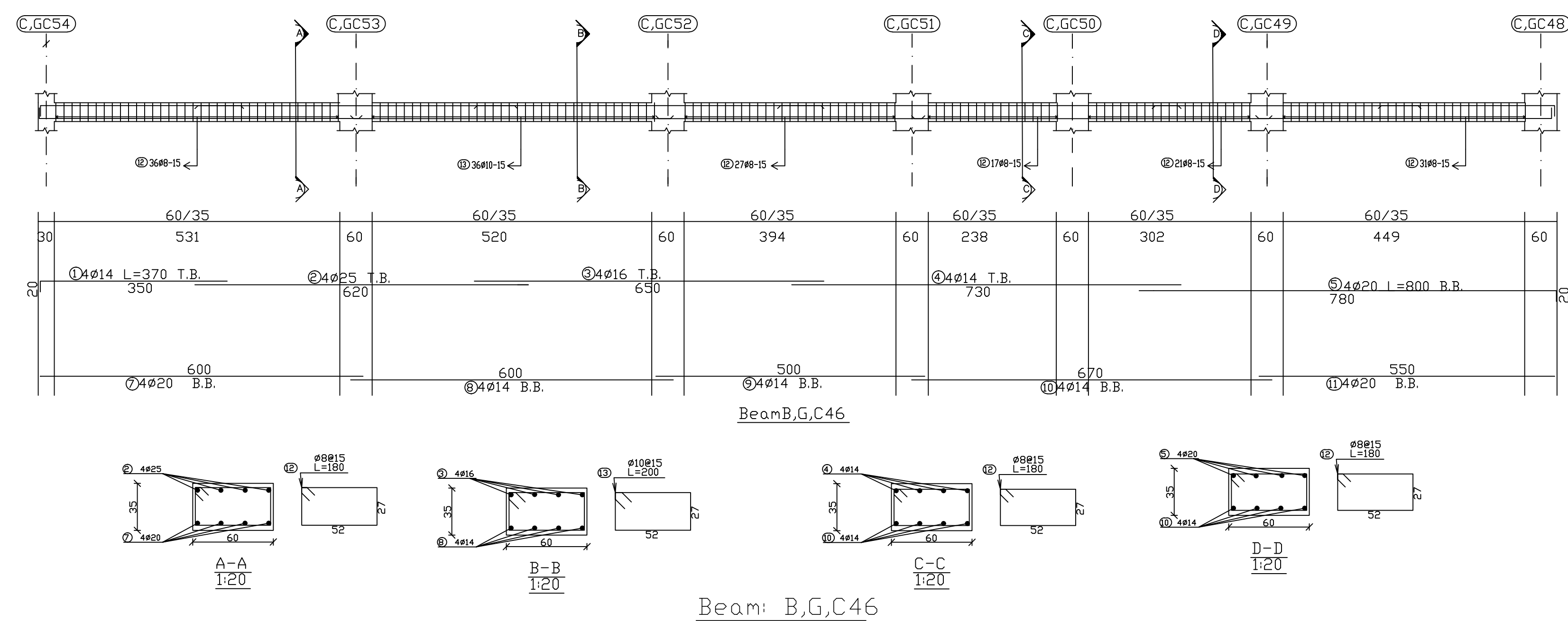
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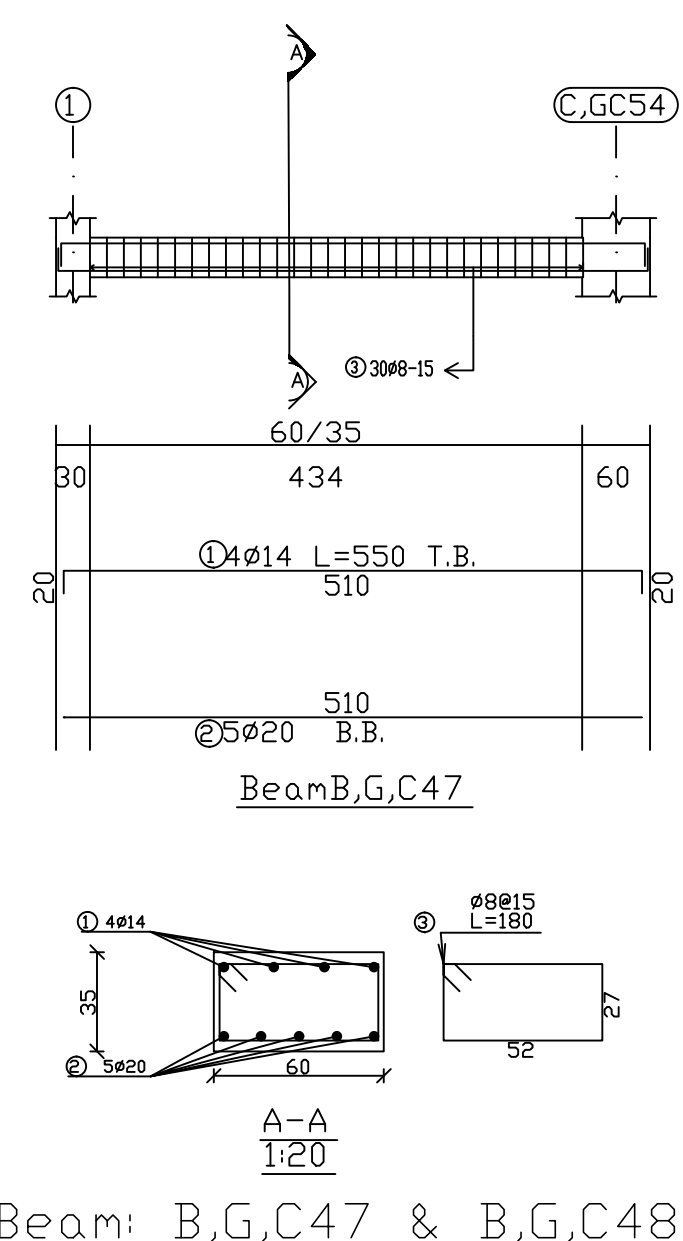
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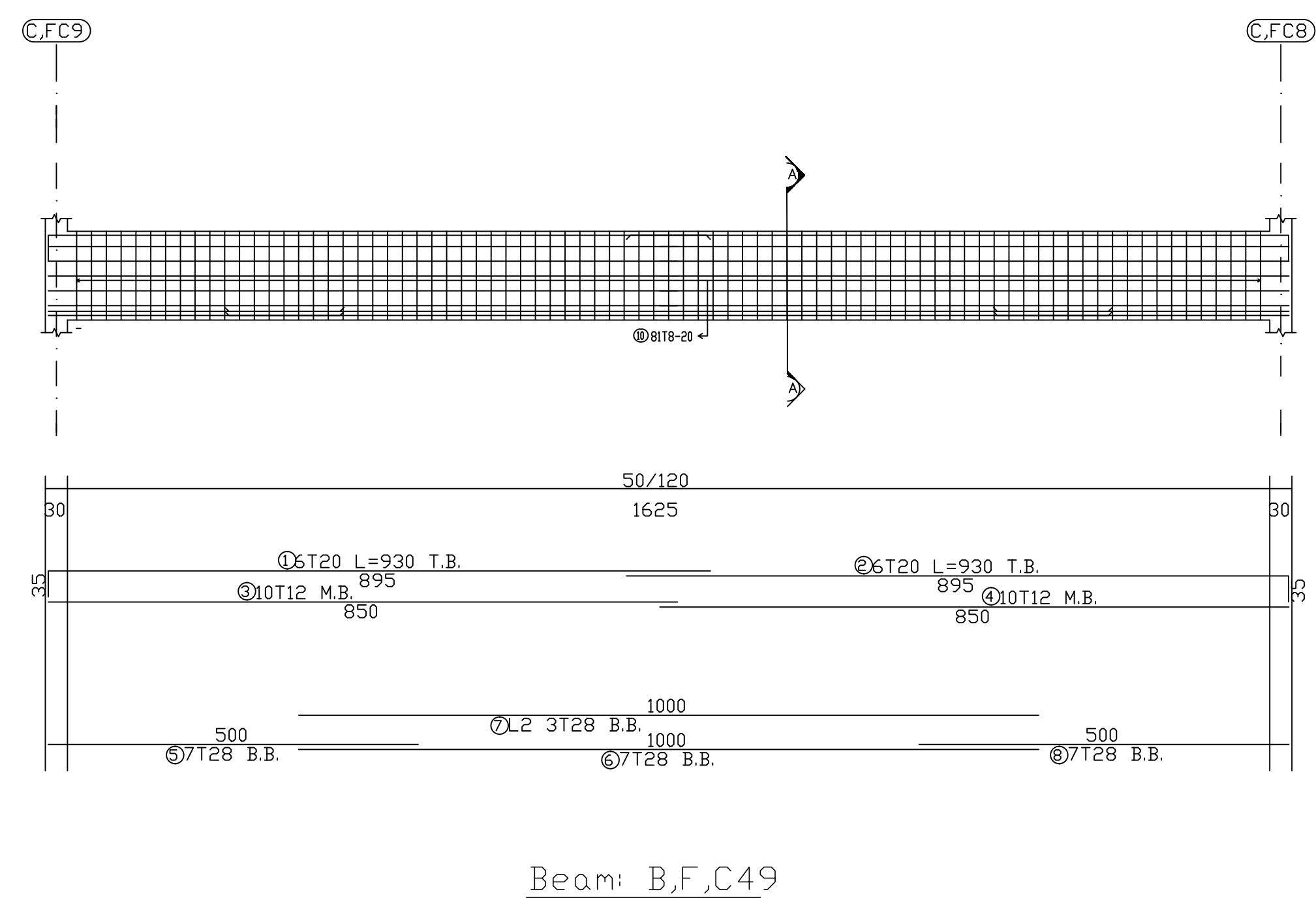
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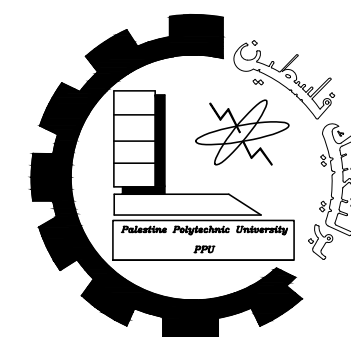
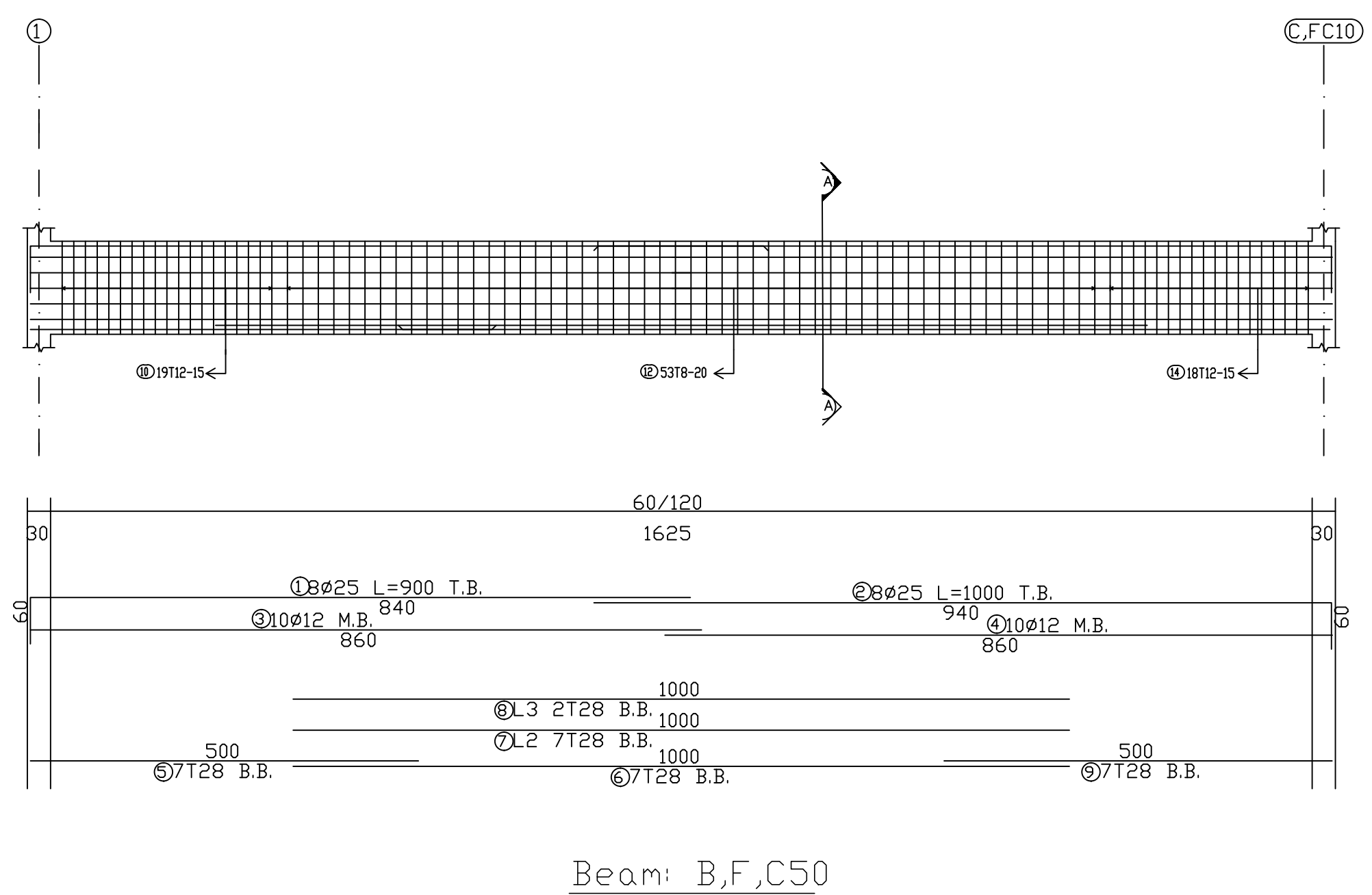
BEAM47(60 /35)



BEAM49(L120 /80)



BEAM50(T120 /80)



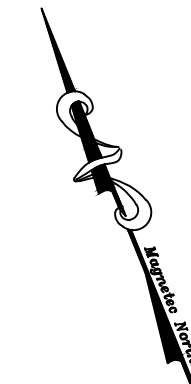
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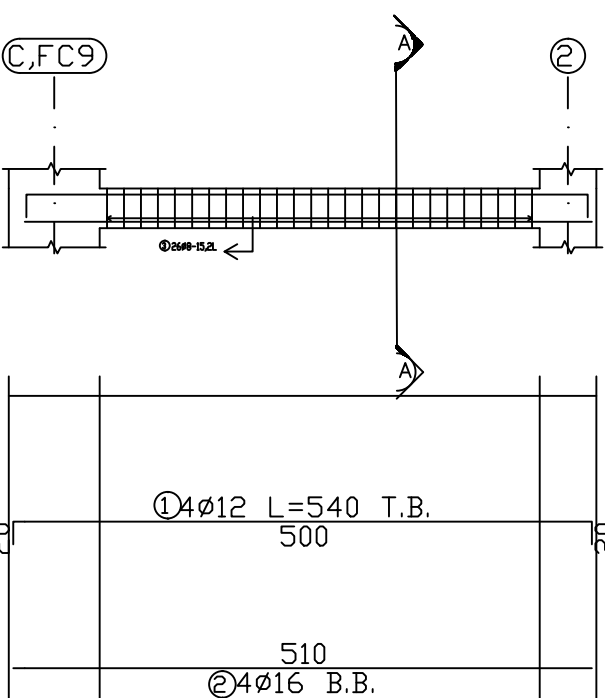
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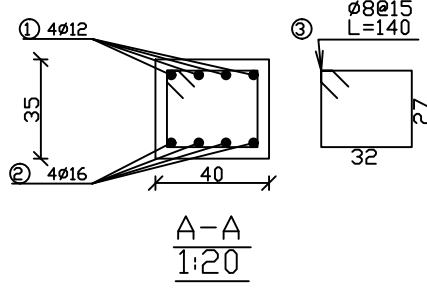
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BEAMS DETAILING IN BUILDING

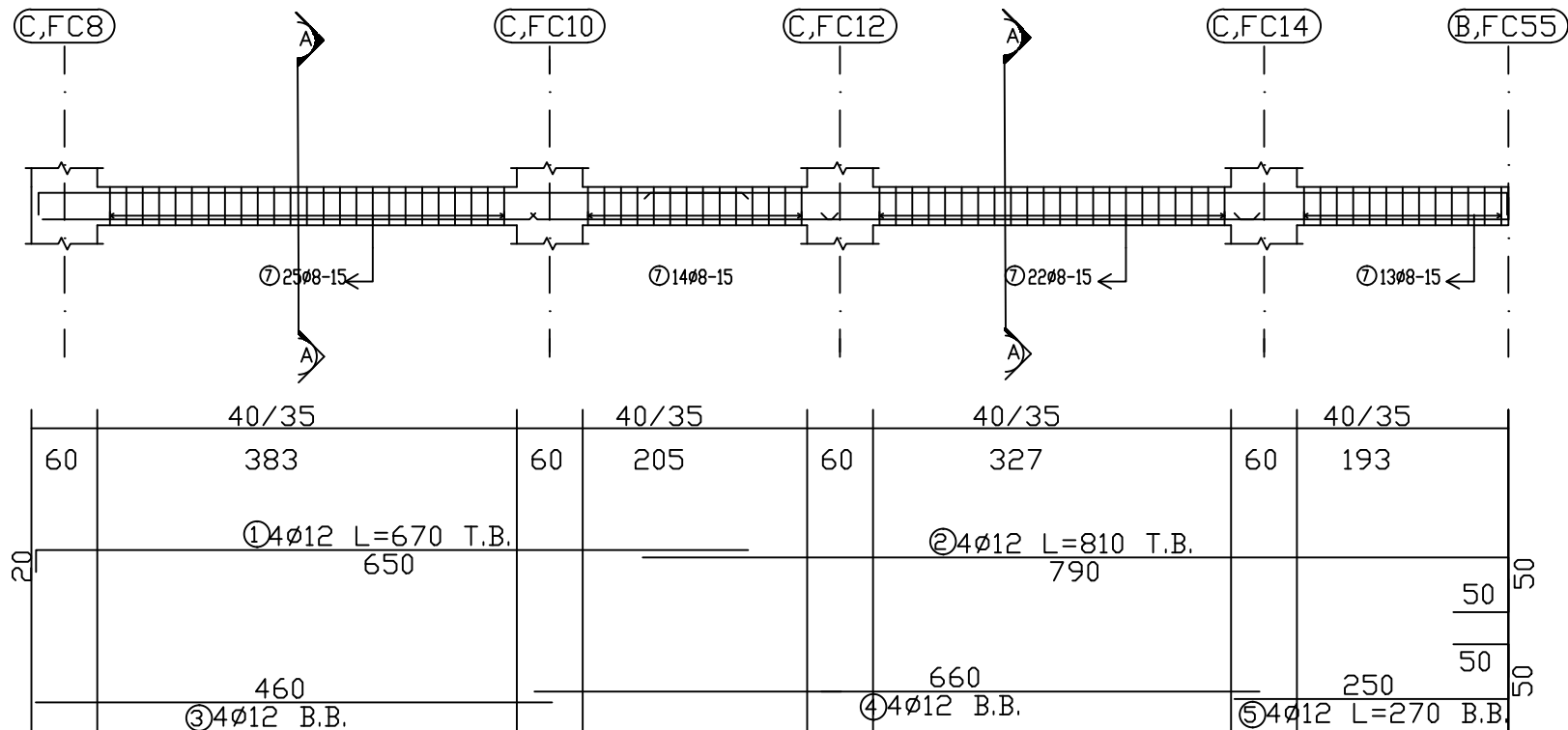
BEAM51(40 /35)



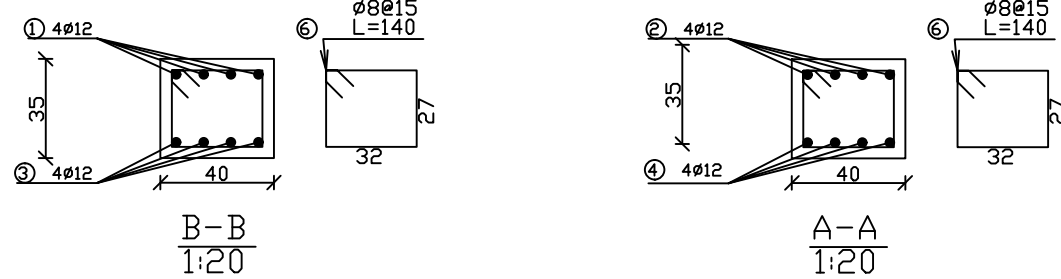
Beam: B,F,C51



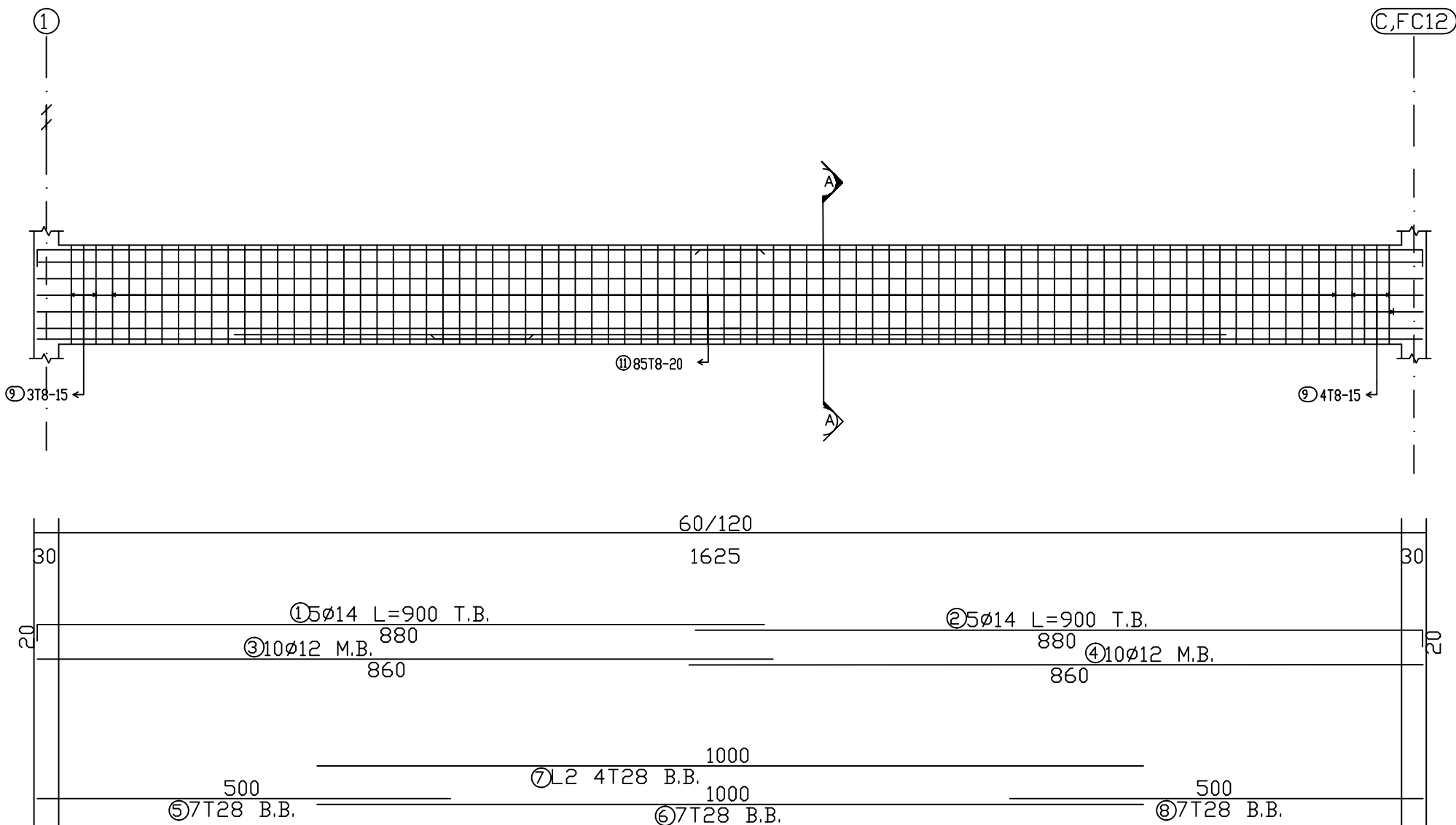
BEAM52(40 /35)



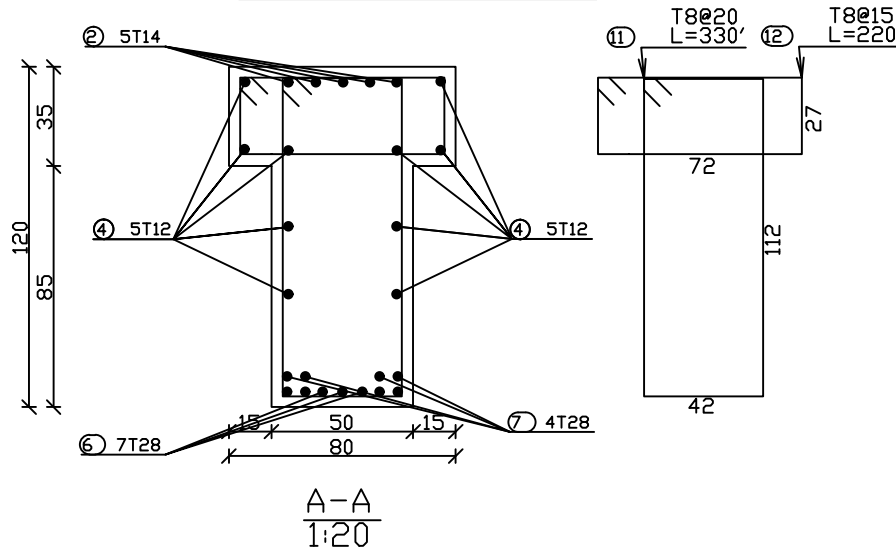
Beam: B,F,C52



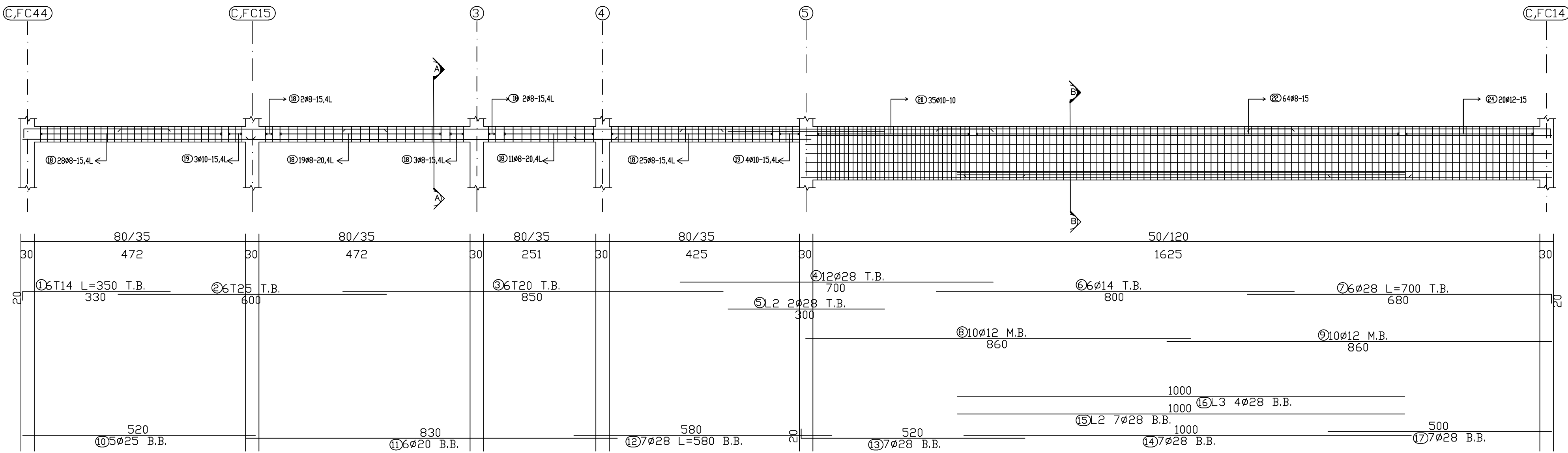
BEAM53(T120 /80)



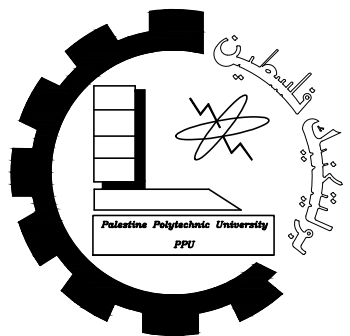
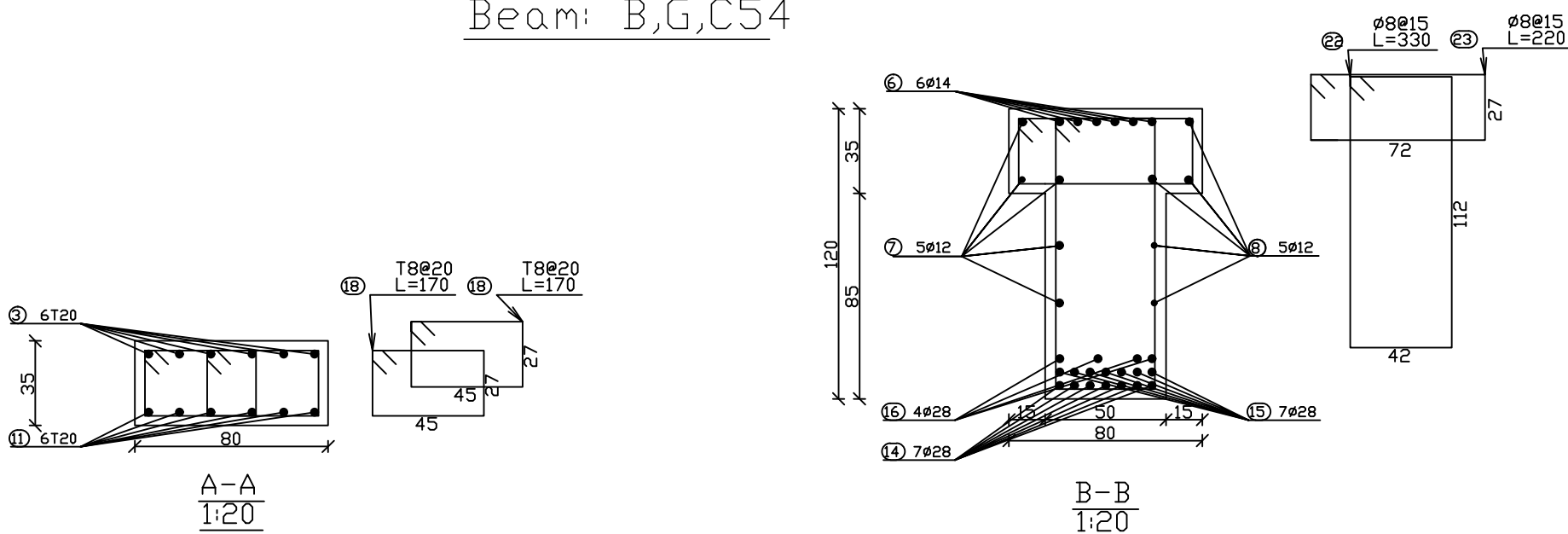
Beam: B,F,C53



BEAM 54 (80/35 & T120/80)



Beam: B,G,C54



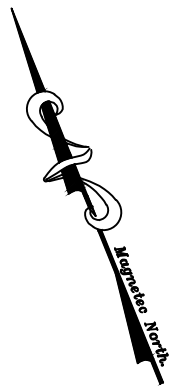
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BEAMS DETAILING IN BUILDING

Technical drawing of a beam section B-F, C55. The drawing includes a cross-section and a longitudinal section.

Cross-section: A rectangular beam with a width of 40 cm and a height of 35 cm. The beam is supported by two columns, with a distance of 80 cm between the column centers and a total length of 265 cm. The beam is labeled "Beam: B, F, C55".

Longitudinal section: Shows the beam with a length of 410 cm. The top reinforcement is 4T12, and the bottom reinforcement is 4T16. The beam is supported by two columns, with a distance of 80 cm between the column centers and a total length of 265 cm. The beam is labeled "Beam: B, F, C55".

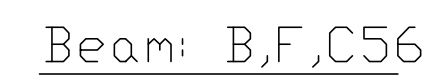
Technical drawing of a roof structure, showing a side elevation and a plan view.

Side Elevation:

- Overall height: 120
- Overall width: 34.5
- Labels: 81T8, 5T12, 2T28, 7T28
- Dimensions: 50, 30, 10, 12
- Section line: A-A

Plan View:

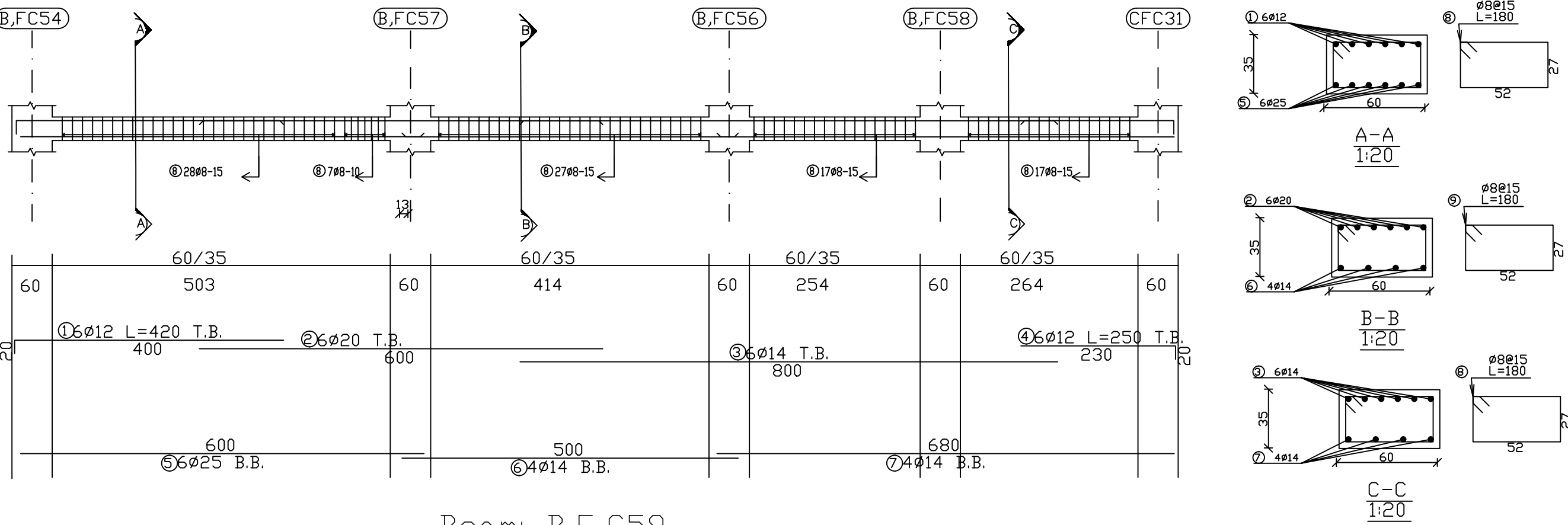
- Overall width: 72
- Overall depth: 42
- Labels: 12, 13, T8e20, T8e15
- Dimensions: 120, 330, 220



Structural drawing of a continuous beam, labeled "Beam: B,F,C57". The drawing includes a plan view at the top showing the beam's layout with supports and spans. The elevation view below shows the beam's profile with reinforcement details. The plan view includes dimensions for spans (e.g., 80/35, 80/35, 60, 80/35, 60, 50/120) and reinforcement details (e.g., 17ø14 L=350 T.B., 27ø25 T.B., 36ø20 T.B., 42ø28 T.B., 42ø14 T.B., 77ø28 L=700 T.B.). The elevation view shows the beam's profile with reinforcement details (e.g., 10ø25 B.B., 11ø20 B.B., 12ø20 L=880 B.B., 13ø28 B.B., 14ø28 B.B., 15ø28 B.B., 16ø28 B.B., 17ø28 B.B., 18ø28 B.B.). The section view at the bottom right shows the beam's cross-section with reinforcement details (e.g., 10ø25, 11ø20, 12ø20, 13ø28, 14ø28, 15ø28, 16ø28, 17ø28, 18ø28).

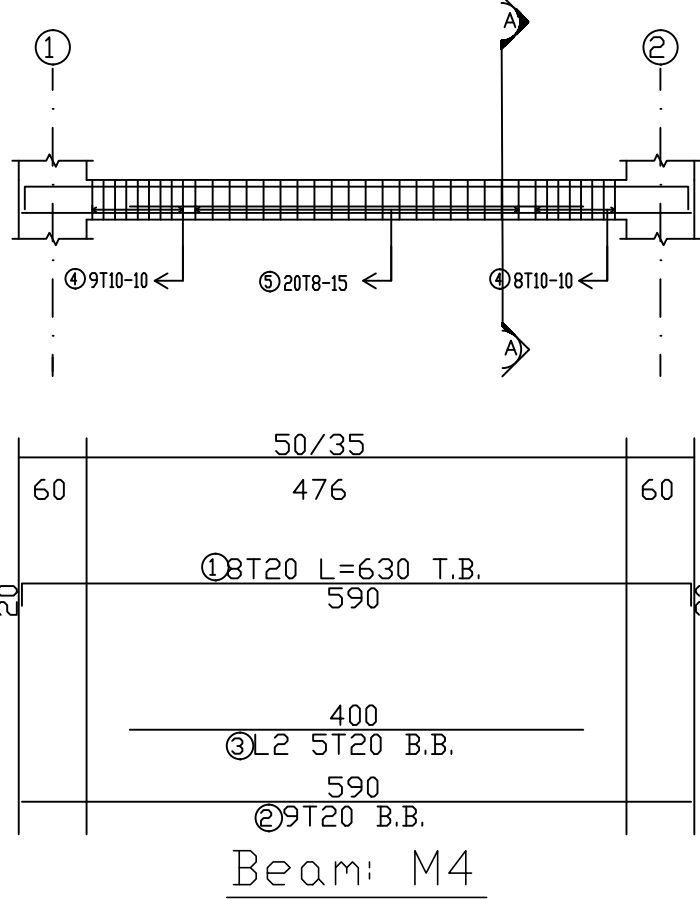


BEAM59(60 /35)

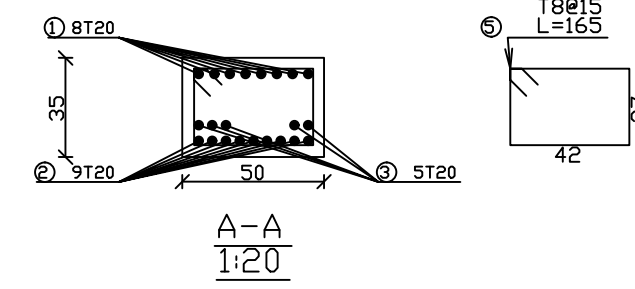


Beam: B,F,C59

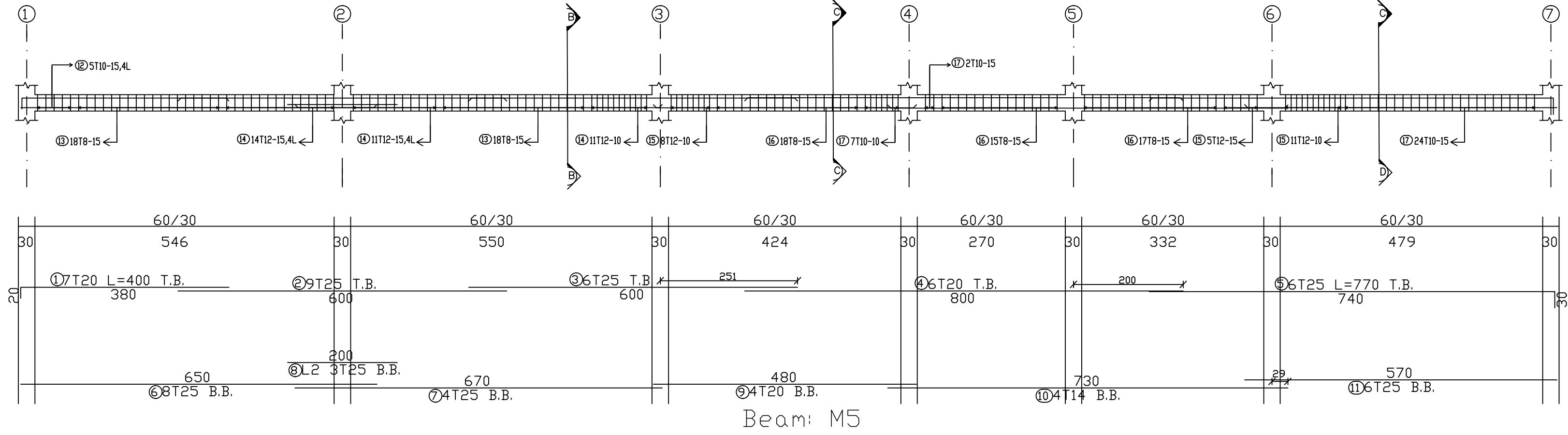
BEAM60(50 /35)



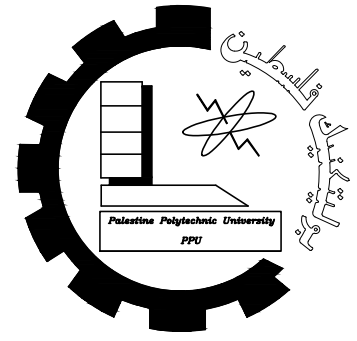
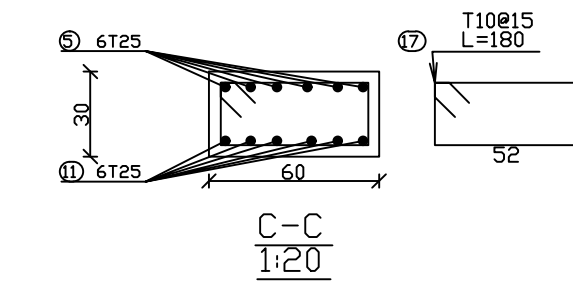
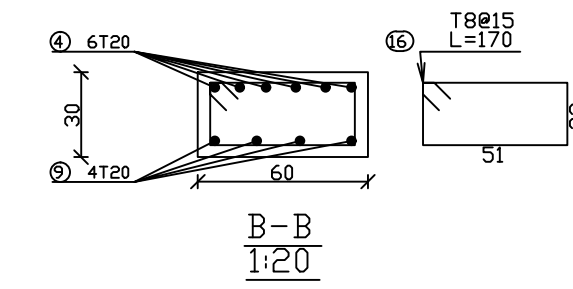
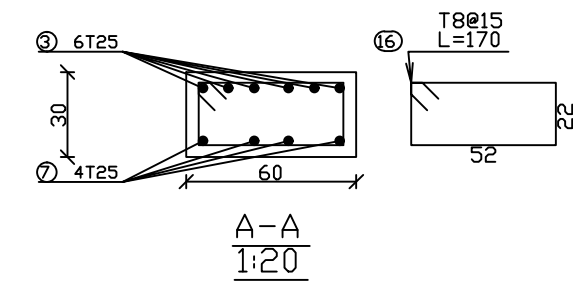
Beam: M4



BEAM61(60 /35)



Beam: M5



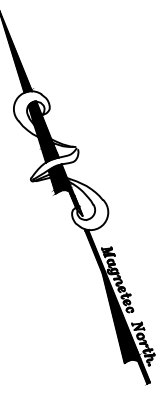
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Supervisor:

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BEAMS DETAILING IN BUILDING

Technical drawing of a bridge deck showing cross-sections and reinforcement details. The top part shows a plan view of the bridge deck with reinforcement bars (numbered 1-15) and dimensions. The bottom part shows a cross-section of the bridge deck with reinforcement bars (numbered 1-15) and dimensions.

Plan View (Top):

- Reinforcement bars: ① 26T8-15,4L, ② 10T12-15,4L, ③ 7T12-15,4L, ④ 25T8-15,4L, ⑤ 4T10-15,4L, ⑥ 25T8-15,4L, ⑦ 8T12-15,4L, ⑧ 18T12-10,4L, ⑨ 25T8-15,4L, ⑩ 3T10-15,4L.
- Dimensions: 80/35, 542, 550, 550, 606.

Cross-section (Bottom):

- Reinforcement bars: ① 4T12 L=370 T.B., ② 8T25 T.B., ③ 2T25 T.B., ④ 6T25 T.B., ⑤ 7T25 T.B., ⑥ 5T25 T.B., ⑦ 4T25 L=450 T.B., ⑧ 4T25 B.B., ⑨ 5T25 B.B., ⑩ 5T25 B.B., ⑪ 4T25 B.B., ⑫ 5T25 B.B., ⑬ 5T25 B.B., ⑭ 4T25 B.B., ⑮ 5T25 B.B.
- Dimensions: 350, 700, 250, 680, 720, 250, 333, 430, 400, 680, 660, 680, 280, 450, 750.

Technical drawing of a reinforced concrete slab cross-section. The drawing shows a slab with a central support. Dimensions are given in millimeters. The slab width is 400 mm. The central support width is 250 mm. The slab thickness is 150 mm. The reinforcement consists of 4 bars of 12 mm diameter (4T12) at the top and 4 bars of 12 mm diameter (4T12) at the bottom. The top bars are bent up at 45 degrees. The bottom bars are bent down at 45 degrees. The drawing is labeled with 1, 2, and 3 at the top and 4, 5, and 6 at the bottom. The dimensions are: 50/35, 325, 50, 50/35, 333, 50. The reinforcement details are: 4T12 L=270 T.B., 5T20 B., 4T12 L=270 T.B., 4T20 B.B., 5T20 B.B.

② 5720
 ④ 4120
 50
 1:20
 ③ T12E15
 L=175
 42
 ⑤ 4112
 ⑥ 4120
 50
 1:20
 ⑦ T8E15
 L=160
 41
 ⑧ 4112
 ⑨ 4120
 50
 1:20

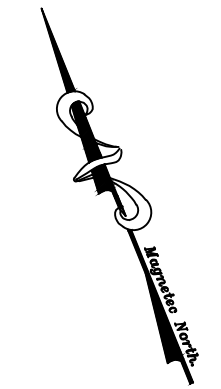
Technical drawing of a bridge structure, showing a plan view and a longitudinal section view.

Plan View (Top): Shows the bridge deck with 10 piers numbered 1 to 10. The spans between piers are labeled with dimensions: 60/35, 534, 526, 410, 250, 312, 474, 298, 333, and 50. The bridge is shown with a centerline and a dashed line indicating the alignment.

Longitudinal Section View (Bottom): Shows the bridge structure with various components labeled, including piers, spans, and dimensions. The drawing includes a title block on the left and a scale bar at the bottom.

Labels and Dimensions:

- Piers:** 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
- Spans:** 60/35, 534, 526, 410, 250, 312, 474, 298, 333, 50
- Dimensions:** 350, 450, 250, 600, 300, 120, 300, 700, 640, 480, 680, 550, 370, 420, 275, 225, 218, 500, 520, 186, 650, 350, 580, 500, 620, 800
- Structural Components:** ①T12 L=370 T.B., ②T20 T.B., ③T20 T.B., ④T20 T.B., ⑤T20 T.B., ⑥T20 T.B., ⑦T20 T.B., ⑧T20 T.B., ⑨T20 T.B., ⑩T20 T.B., ⑪T20 B.B., ⑫T20 B.B., ⑬T20 B.B., ⑭T20 B.B., ⑮T20 B.B., ⑯T20 B.B., ⑰T20 B.B., ⑱T20 B.B., ⑲T20 B.B., ⑳T20 B.B.



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