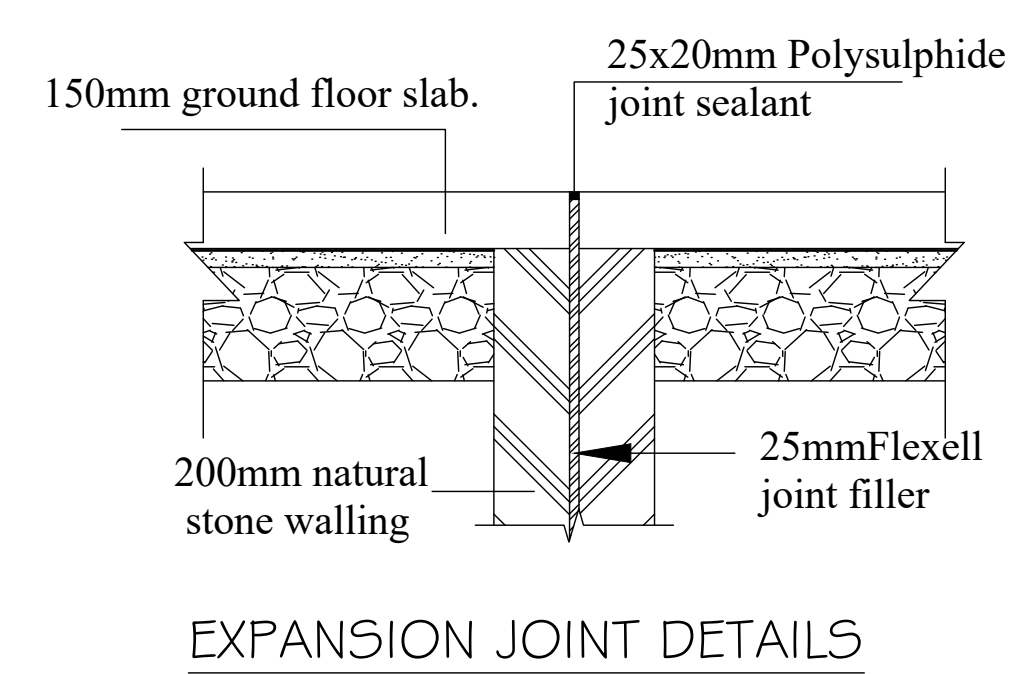
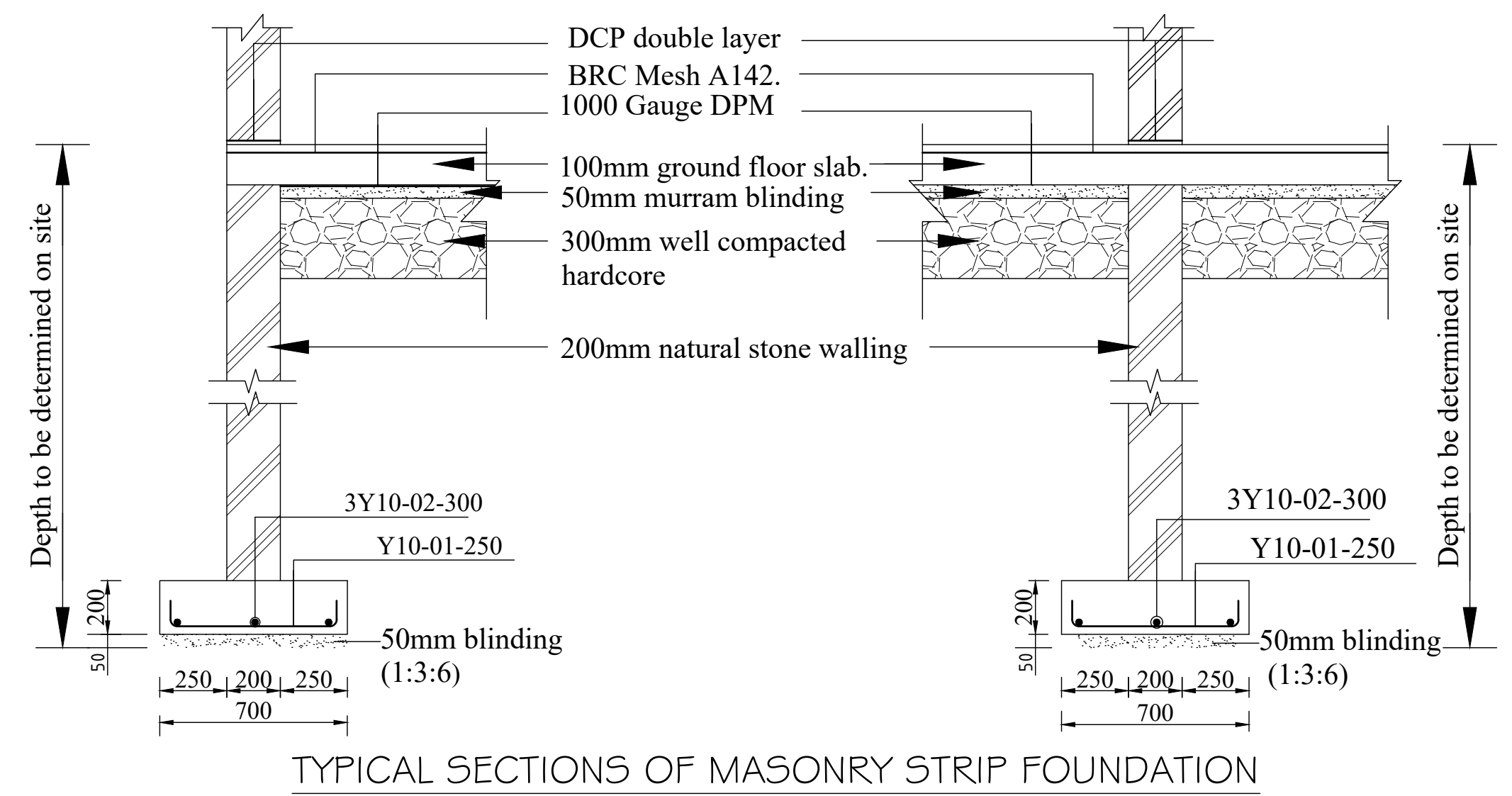
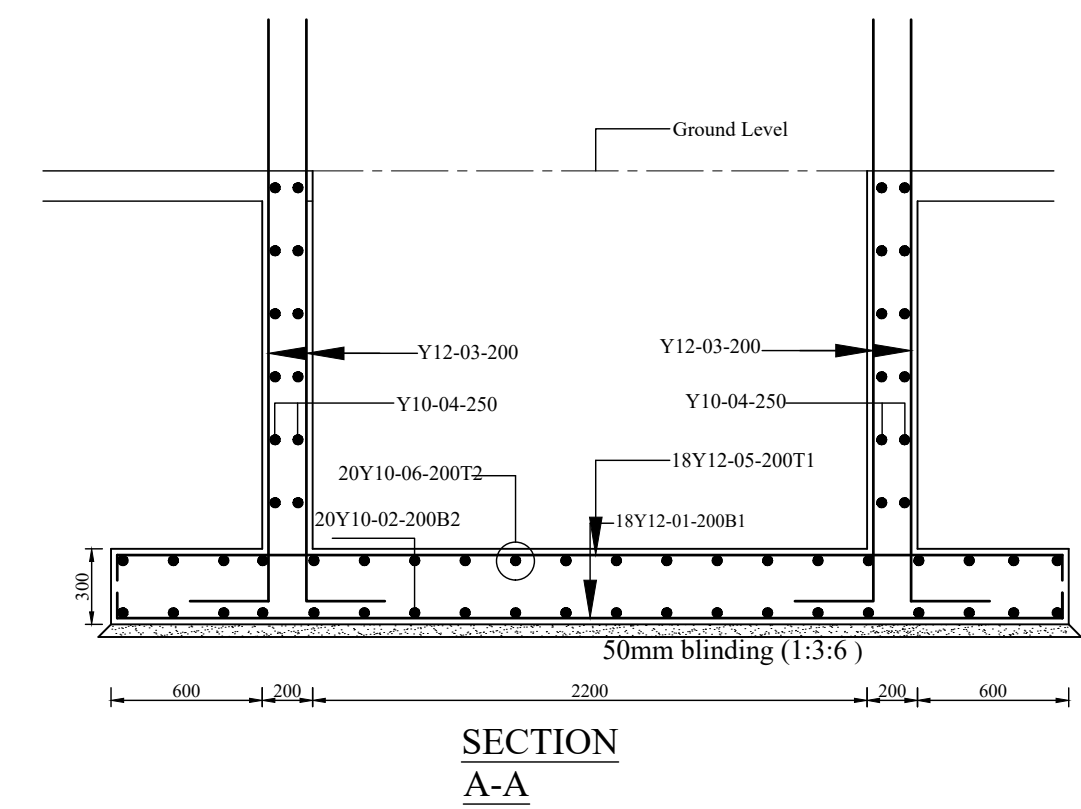
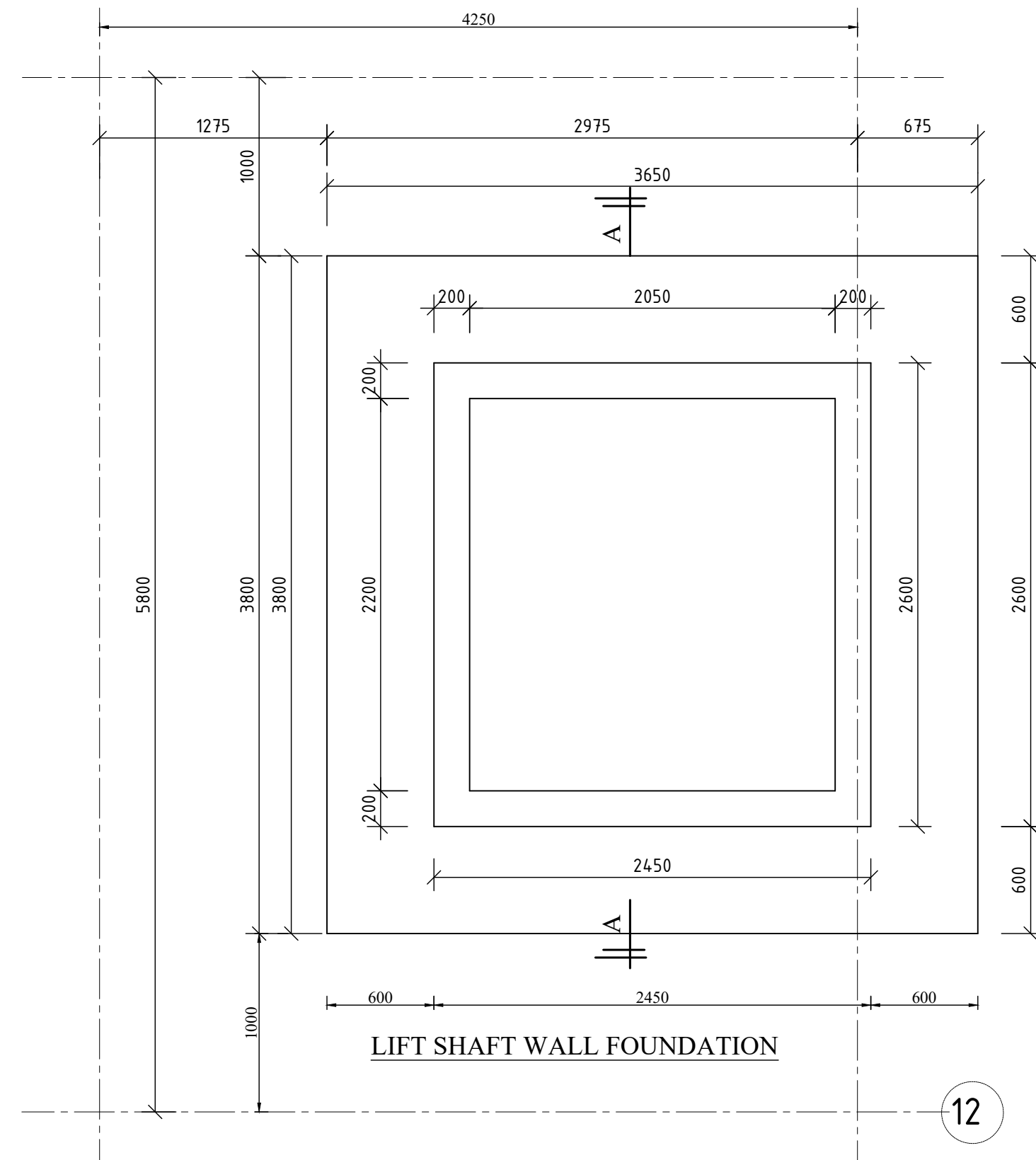
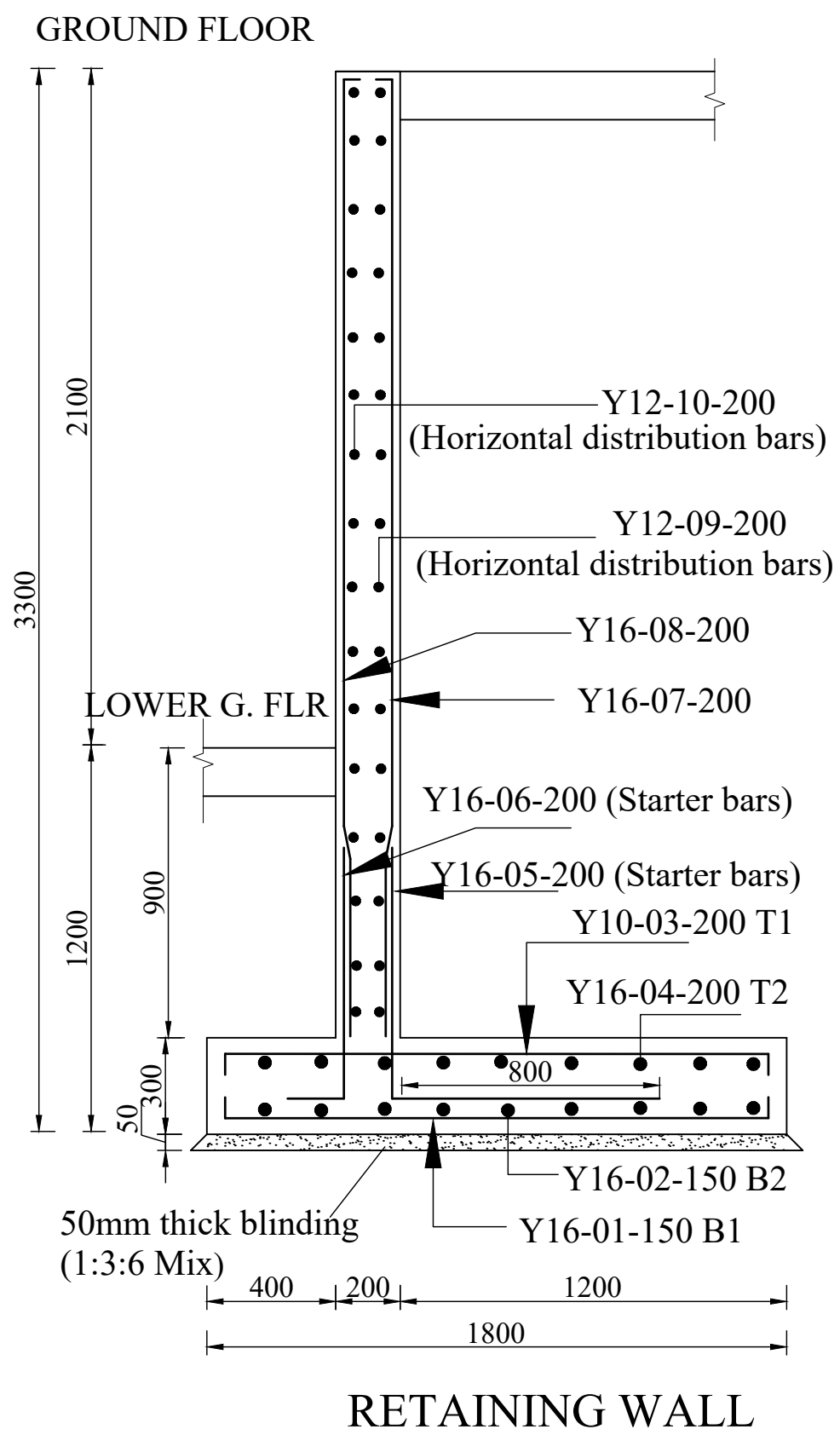
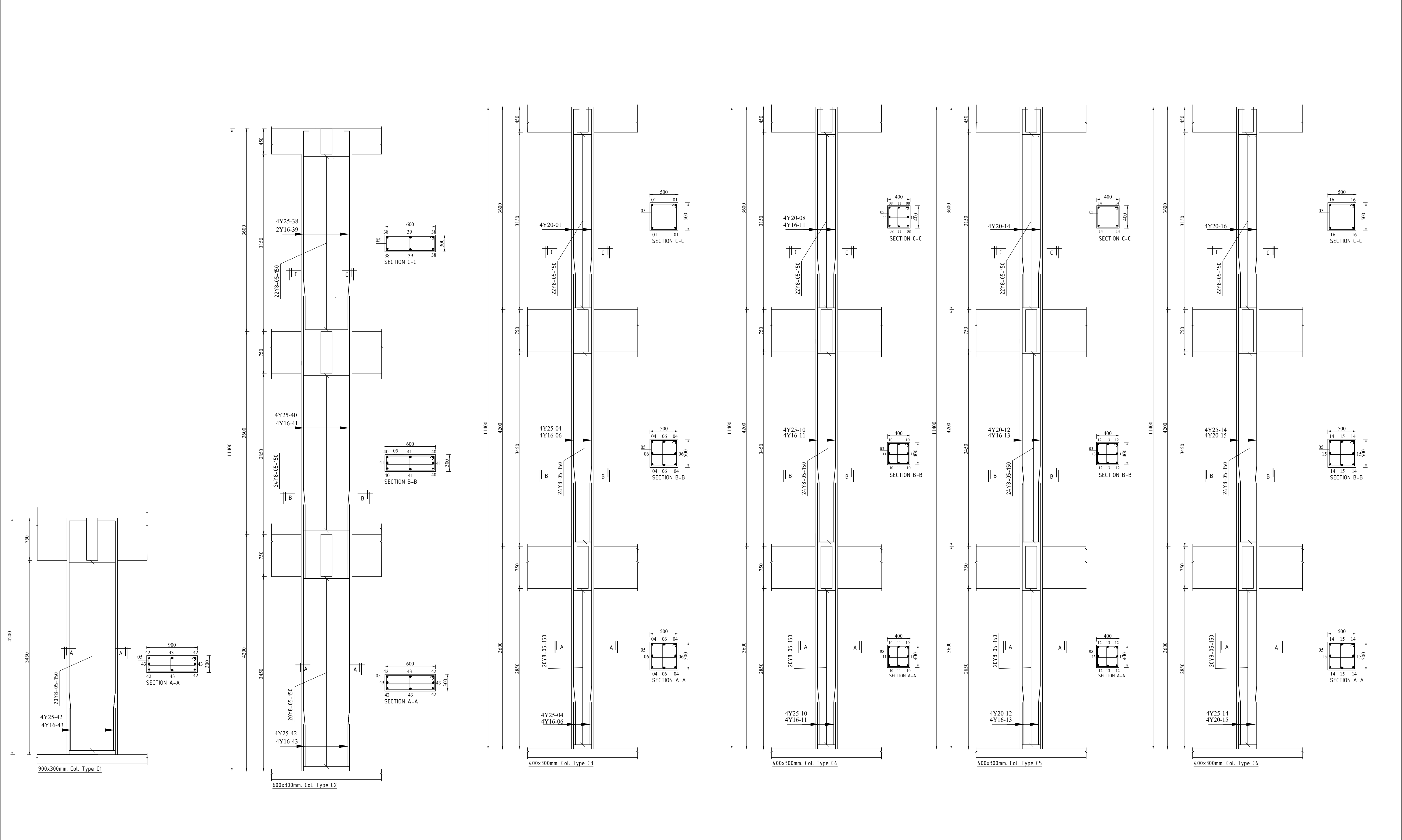
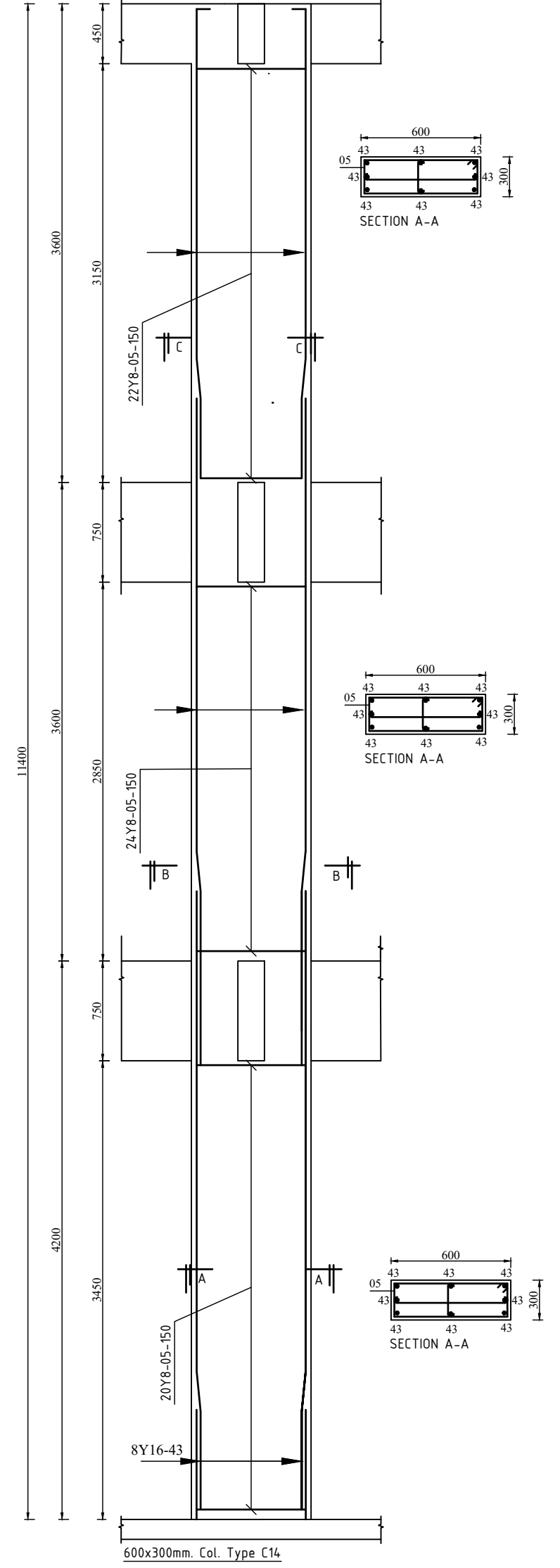
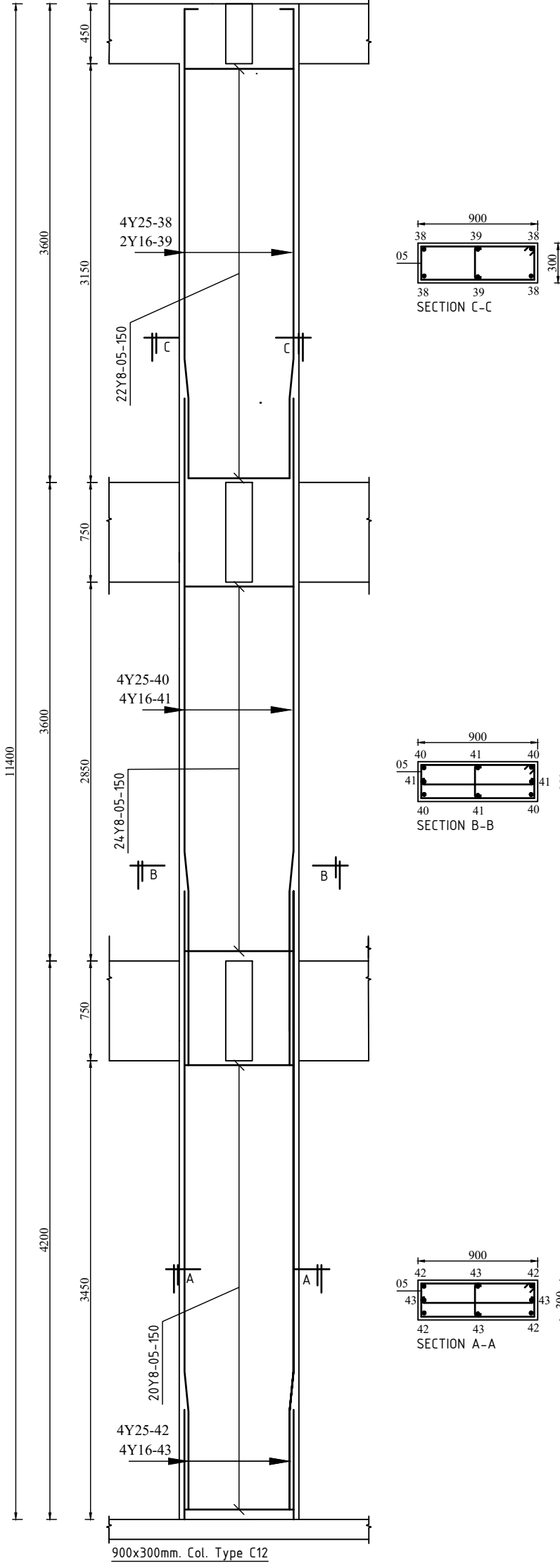
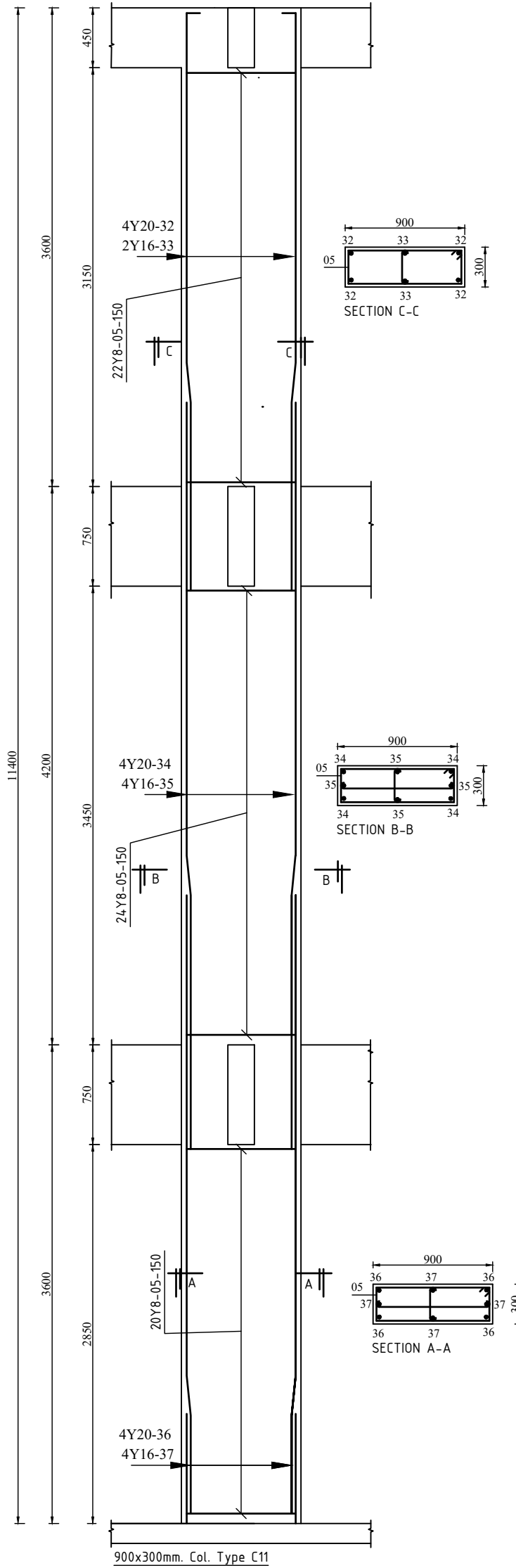
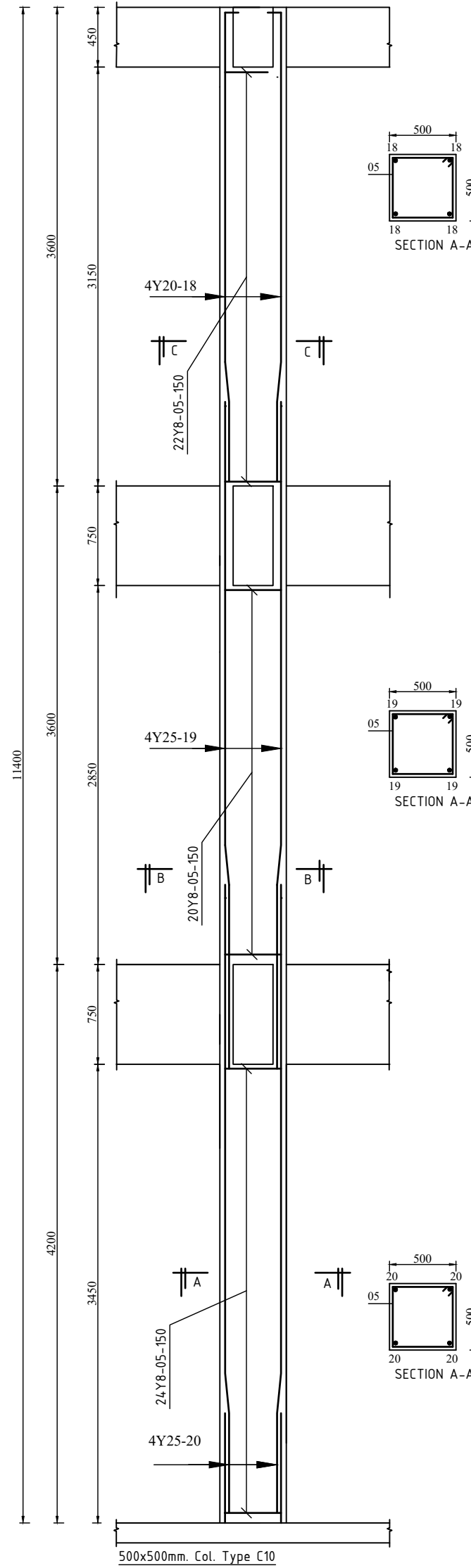
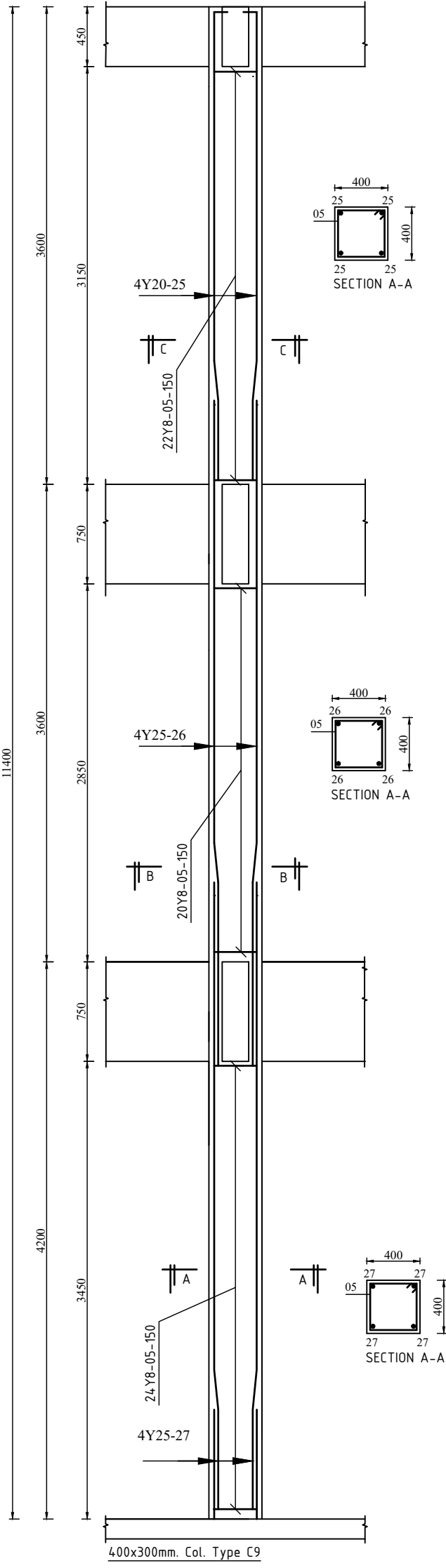
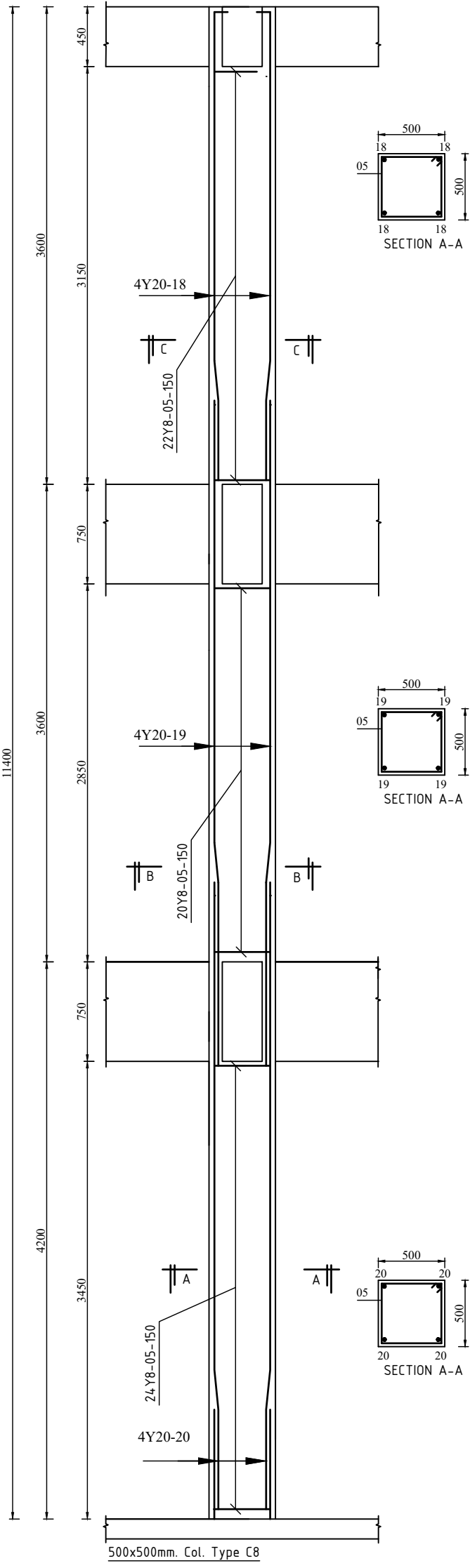
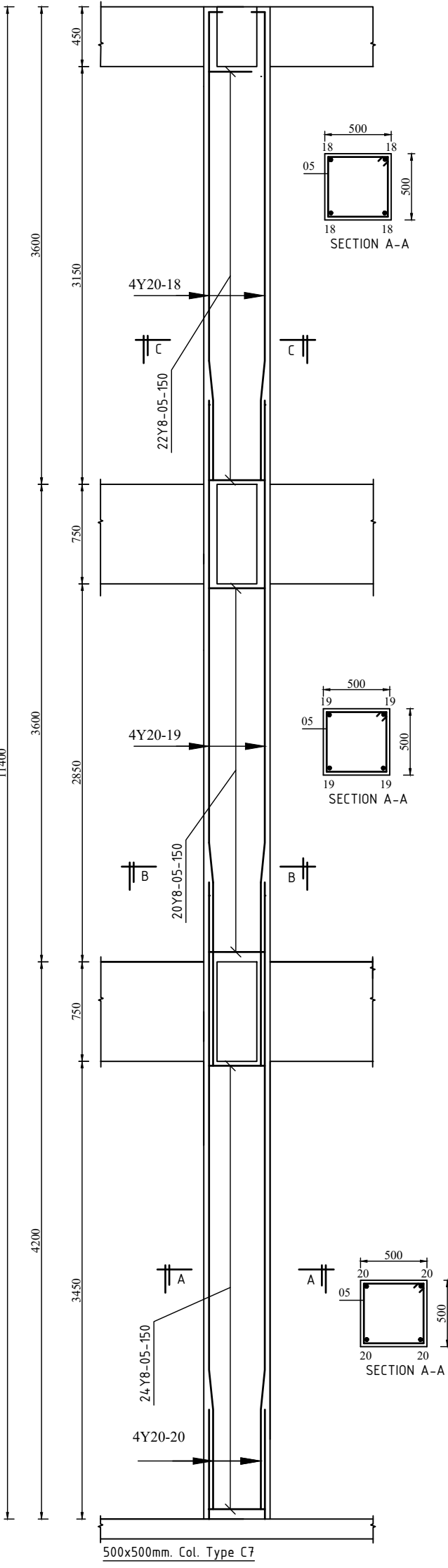




NO.	REVISION DESCRIPTION	BY	ISSUED	DATE	NOTES			PROJECT: KOITALEEL ARAP SAMOEI CAMPUS ADMINSTRATION BLOCK		
					1. All excavation to be approved by Engineer before concreting.			DRAWING: RETAINING WALL AND LIFT SHAFT		
					2. Concrete to be class 25/20 with minimum crushing strength of 17.5 N/mm-2 and 25 N/mm-2 at 7 days and 28 days respectively.			CLIENT		
					3. Minimum cover to reinforcement to be as shown below:-			UNIVERSITY OF NAIROBI		
					A). Foundation- 50mm			GORO CONSULTANTS 2nd Floor ,Rattansi E.T Bldg Koinange/Monrovia Street P.O Box 55501-00200 NAIROBI KENYA Tel:4402081/2,3534086		
					B). Columns 40mm					
					C). Beams-30mm					
					D). Slab-25mm					
					4. All dimensions to be verified and discrepancy reported to the Engineer			Drawn By:		
					5. Blinding concrete to be class 15/20 with minimum crushing strength of 15N/mm-2 at 28 days.			Checked BY: Eng E.C. GORO		
					6. All reinforcement works MUST be approved by the Engineer before concreting.			Approved By: Drg NO: UON/2019/02/02		
					7. All unsuitable soils to be removed and replaced with suitable fill material.			Scale: AS SHOWN		
					8. All measurements are in millimetres unless stated otherwise			Date: NOVEMBER 2019		



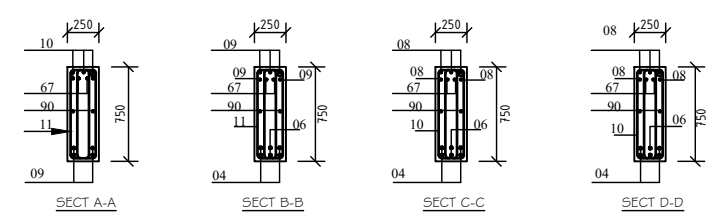
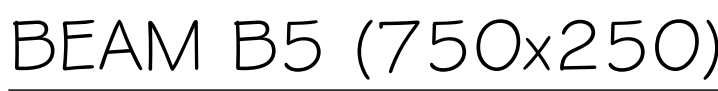
NO.	REVISION DESCRIPTION	BY	ISSUED	DATE	NOTES 1. All excavation to be approved by Engineer before concreting. 2. Concrete to be class 25/20 with minimum crushing strength of 17.5 N/mm-2 and 25 N/mm-2 at 7 days and 28 days respectively. 3. Minimum cover to reinforcement to be as shown below:- A). Foundation- 50mm B). Columns 40mm C). Beams-30mm D). Slab-25mm 4. All dimensions to be verified and discrepancy reported to the Engineer 5. Blinding concrete to be class 15/20 with minimum crushing strength of 15N/mm-2 at 28 days. 6. All reinforcement works MUST be approved by the Engineer before concreting. 7. All unsuitable soils to be removed and replaced with suitable fill material. 8. All measurements are in millimetres unless stated otherwise	PROJECT: KOITALEEL ARAP SAMOEI CAMPUS ADMINSTRATION BLOCK		
						DRAWING: COLUMN		
						CLIENT UNIVERSITY OF NAIROBI		
						GORO CONSULTANTS 2nd Floor ,Rattansi E.T Bldg Koinange/Monrovia Street P.O Box 55501-00200 NAIROBI KENYA Tel:4402081/2,3534086		
							Drawn By:	
							Checked BY: Eng E.C. GORO	
							Approved By:	
							Date: AS SHOWN	
						Date: NOVEMBER 2019	Drg NO: UON/2019/02/03	



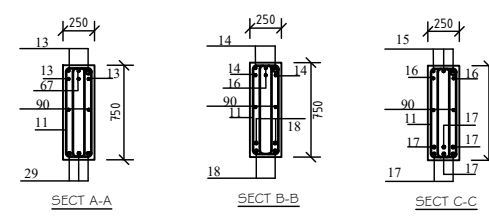
NO.	REVISION DESCRIPTION	BY	ISSUED	DATE

- NOTES
- All excavation to be approved by Engineer before concreting.
 - Concrete to be class 25/20 with minimum crushing strength of 17.5 N/mm² and 25 N/mm² at 7 days and 28 days respectively.
 - Minimum cover to reinforcement to be as shown below:
 - A). Foundation- 50mm
 - B). Columns 40mm
 - C). Beams-30mm
 - D). Slab-25mm
 - All dimensions to be verified and discrepancy reported to the Engineer
 - Blinding concrete to be class 15/20 with minimum crushing strength of 15N/mm² at 28 days.
 - All reinforcement works MUST be approved by the Engineer before concreting.
 - All unsuitable soils to be removed and replaced with suitable fill material.
 - All measurements are in millimetres unless stated otherwise

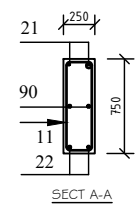
PROJECT: KOITALEEL ARAP SAMOEI CAMPUS ADMINSTRATION BLOCK		
DRAWING: SLAB REINFORCEMENT DETAILS		
CLIENT UNIVERSITY OF NAIROBI		
Goro Consultants 2nd Floor ,Rattansi E.T Bldg Koinange/Monrovia Street P.O Box 55501-00200 NAIROBI KENYA Tel:4402081/2,3534086	Drawn By: ...	Drg NO: UON/2019/02/04
	Checked BY: Eng E.C. GORO	
	Approved By:	
	Scale: AS SHOWN	
	Date: NOVEMBER 2019	



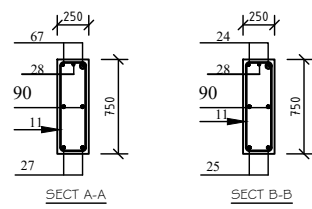
BEAM B6 (750x250)



BEAM B7 (750x250)



BEAM B8 (750x250)



BEAM B9 (750x250)

[illegible]

1. All excavation to be approved by Engineer before concreting.
2. Concrete to be class 25/20 with minimum crushing strength of 17.5 N/mm² and 25 N/mm² at 7 days and 28 days respectively.
3. Minimum cover to reinforcement to be as shown below:-
 - A). Foundation-50mm
 - B). Columns 40mm
 - C). Beams-30mm
 - D). Slab-25mm
4. All dimensions to be verified and discrepancy reported to the Engineer
5. Blinding concrete to be class 15/20 with minimum crushing strength of 15N/mm² at 28 days.
6. All reinforcement works MUST be approved by the Engineer before concreting.
7. All unsuitable soils to be removed and replaced with suitable fill material.
8. All measurements are in millimetres unless stated otherwise

Date: NOVEMBER 2019

Drg NO: UON/2019/02/05

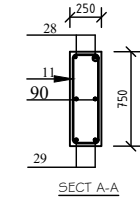


Figure 1: Schematic diagram of the test specimen. The diagram shows a horizontal beam of total length 6000 mm, supported at both ends by circular fixtures labeled E and F. The beam is divided into three sections: a left section of 2512 mm containing 9 bars (2Y12-9), a middle section of 40RS-11-150, and a right section of 2516 mm containing 6 bars (2Y16-6). A dimension line at the bottom indicates the total length of 6000 mm.

Technical drawing of a reinforced concrete beam with three spans. The beam is labeled with reinforcement bars: 2Y16-67, 2Y12-30, 3Y16-35, 2Y16-31, 36R8-11-150, 2Y16-34, 1Y16-32, 41R8-11-150, 2Y16-67, and 3Y16-33. The spans are 5250, 5250, and 6000. The beam is supported by three columns labeled 2', 3', and 4. The drawing shows the beam's profile, reinforcement layout, and dimensions.

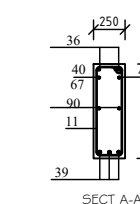


Figure 1 is a schematic diagram of the bridge structure. It shows a bridge with two main spans of 5250m and 6750m. The bridge is supported by piers (labeled 2 and 4) and abutments. Various structural components are labeled, including piles (2Y16-01, 3Y16-64, 45R8-11-130, 2Y16-65, 3Y20-66) and dimensions (1500, 1825, 5250, 6750). The diagram illustrates the layout of the bridge deck, piers, and the distribution of different pile types across the spans.

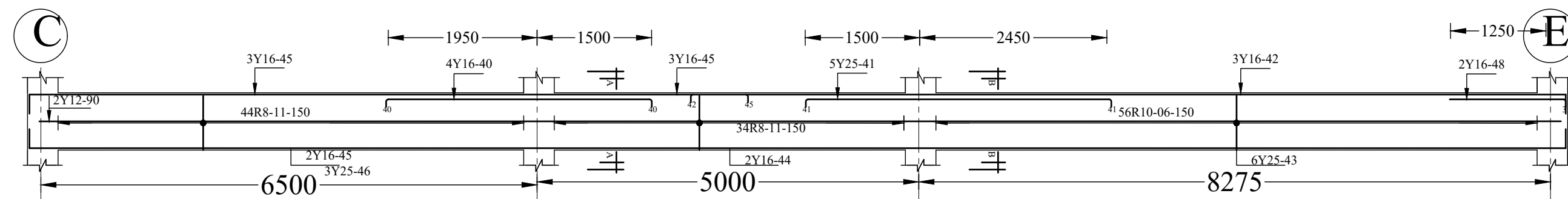
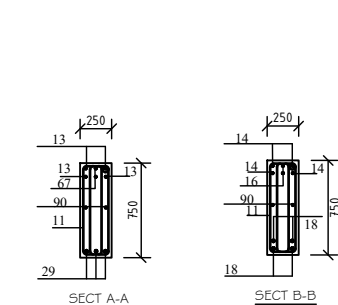
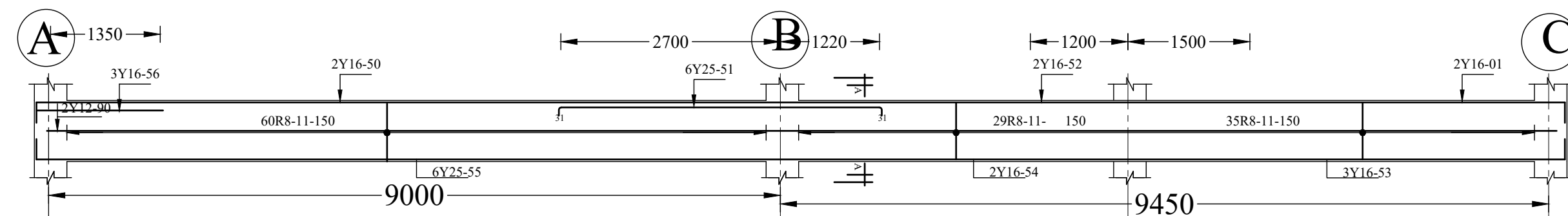
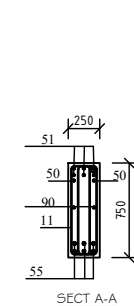
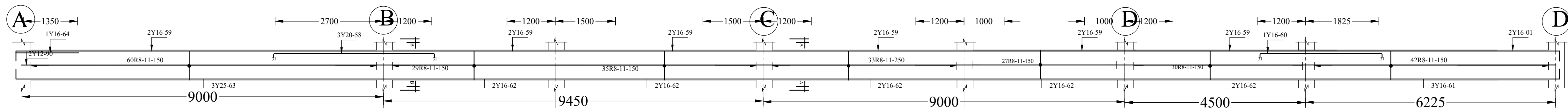


Diagram showing the cross-section A-A of the shaft. The shaft has an outer diameter of 47 mm and an inner diameter of 49 mm. The internal features include a central hole with a diameter of 25.0 mm and a depth of 11 mm. The shaft is shown with a keyway on the outer surface.

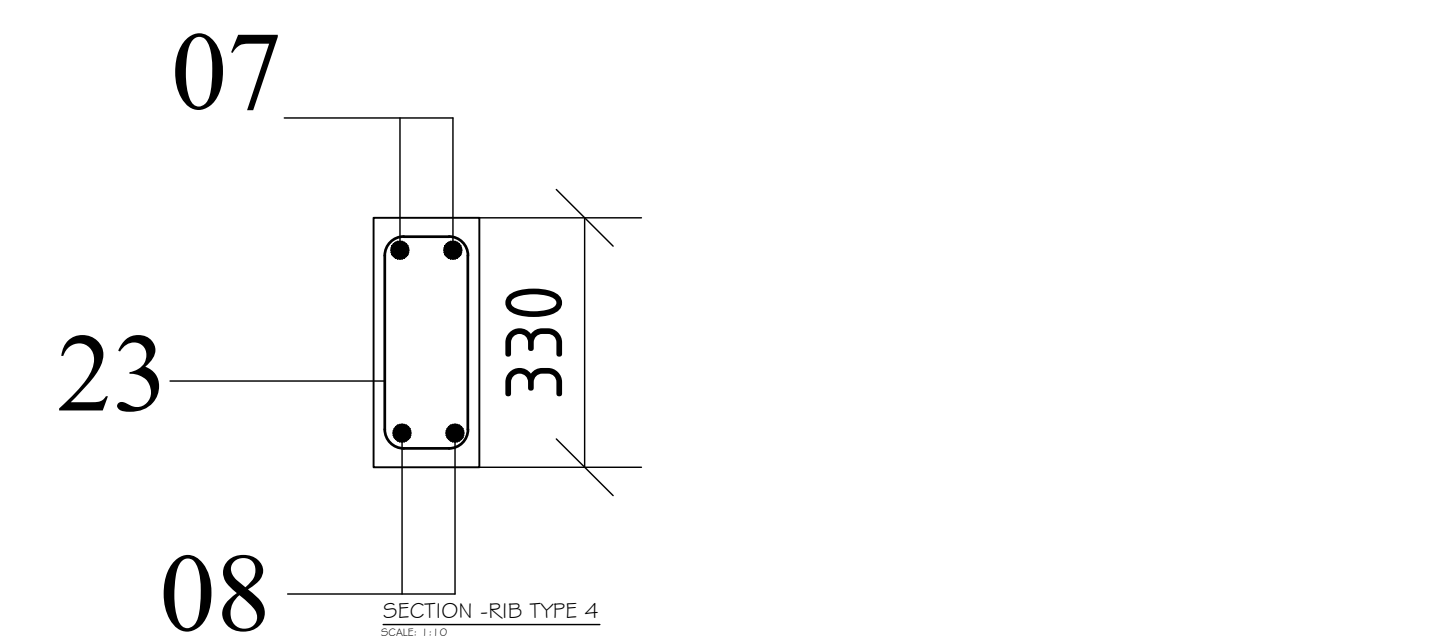
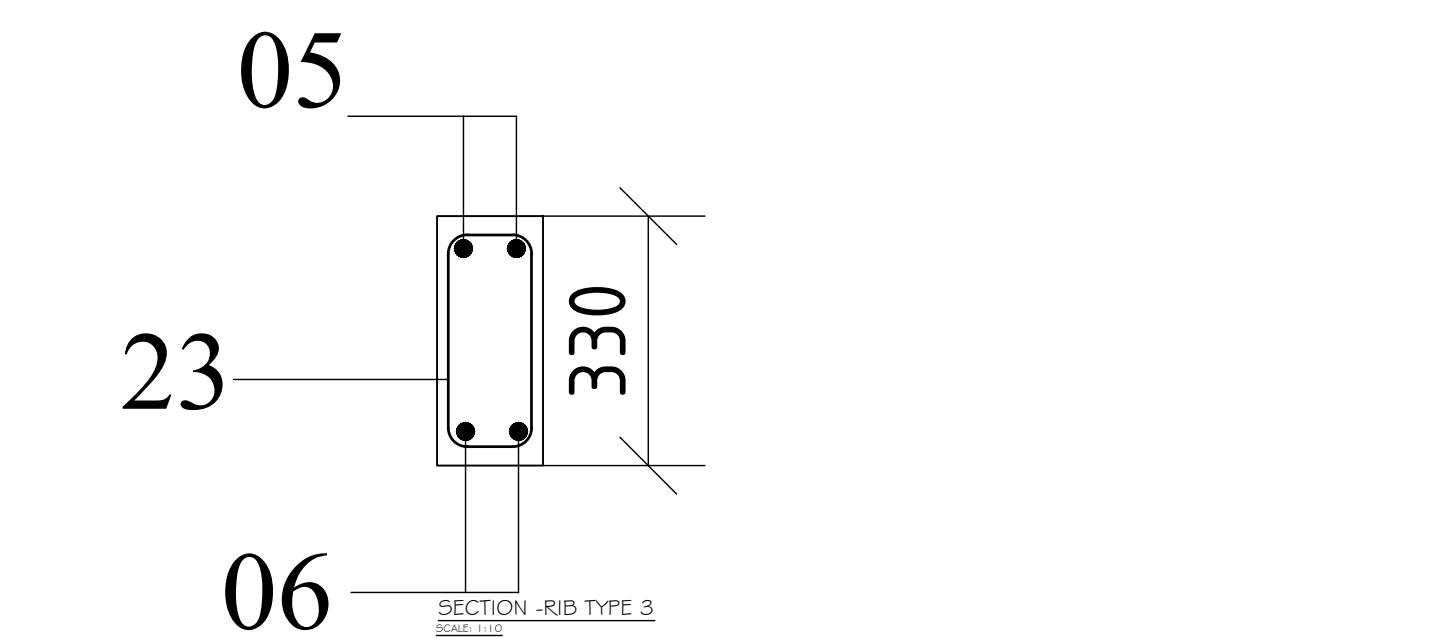
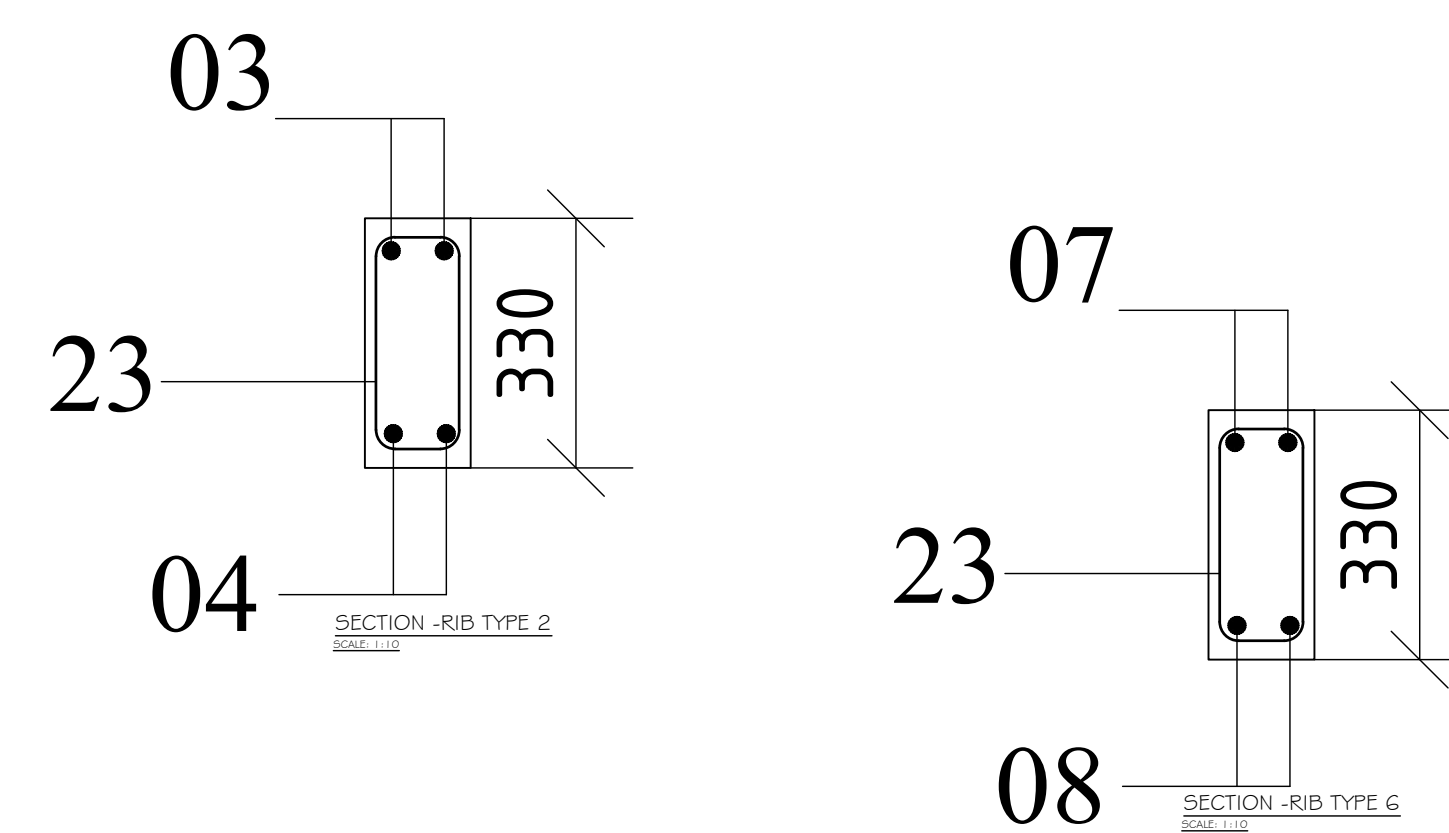
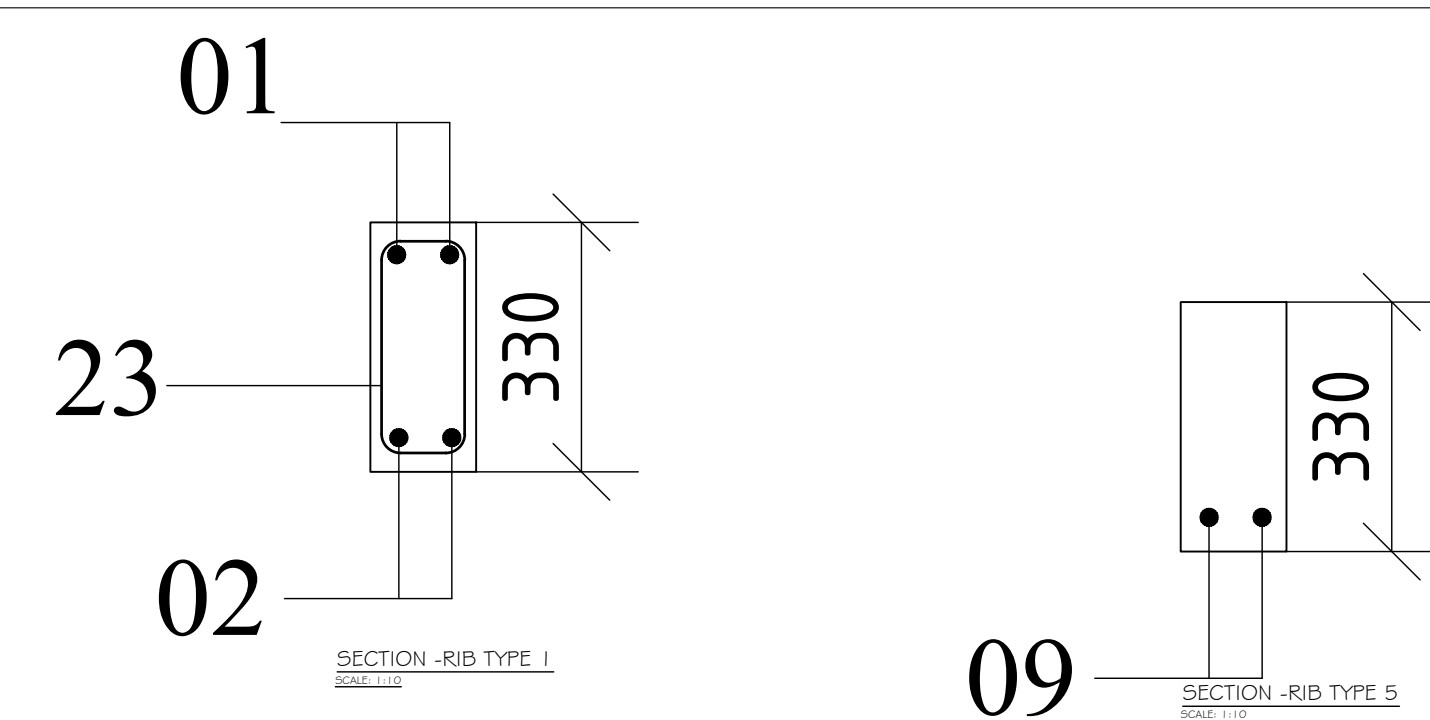


Technical drawing of a reinforced concrete beam (SPEKT A-A) showing reinforcement details. The beam has a total length of 9450 mm. It features top reinforcement 3Y16-01 and bottom reinforcement 2Y16-57. Two internal reinforcement points are marked: 29R8-11-150 and 35R8-11-150. The distance between the first and second internal point is 1200 mm, and the distance from the second internal point to the right end is 1500 mm. A cross-section detail (SPEKT A-A) shows a rectangular section with dimensions 400 mm by 120 mm, and reinforcement bars 3Y16-01 and 2Y16-57.

SECT A-A

[illegible]

- | | | |
|--|---------------------------|------------------------|
| PROJECT:
KOITALEEL ARAP SAMOEI CAMPUS ADMINISTRATION BLOCK | | |
| DRAWING:
BEAMS | | |
| CLIENT
UNIVERSITY OF NAIROBI | | |
| GORO CONSULTANTS
2nd Floor ,Rattansi E.T Bldg
Koinange/Monrovia Street
P.O Box 55501-00200
NAIROBI KENYA
Tel:4402081/2,3534086 | Drawn By: ... | Drp NO: UON/2019/02/06 |
| | Checked BY: Eng E.C. GORO | |
| | Approved By: | |
| | Scale: AS SHOWN | |
| | Date: NOVEMBER 2019 | |



NO.	REVISION DESCRIPTION	BY	ISSUED	DATE	NOTES	PROJECT: KOITALEEL ARAP SAMOEI CAMPUS ADMINSTRATION BLOCK							
					1. All excavation to be approved by Engineer before concreting.	DRAWING: RIB BEAMS							
					2. Concrete to be class 25/20 with minimum crushing strength of 17.5 N/mm-2 and 25 N/mm-2 at 7 days and 28 days respectively.	CLIENT UNIVERSITY OF NAIROBI							
					3. Minimum cover to reinforcement to be as shown below:- A). Foundation- 50mm B). Columns 40mm C). Beams-30mm D). Slab-25mm	GORO CONSULTANTS							
					4. All dimensions to be verified and discrepancy reported to the Engineer	2nd Floor ,Rattansi E.T Bldg							
					5. Blinding concrete to be class 15/20 with minimum crushing strength of 15N/mm-2 at 28 days.	Koinange/Monrovia Street							
					6. All reinforcement works MUST be approved by the Engineer before concreting.	P.O Box 55501-00200							
					7. All unsuitable soils to be removed and replaced with suitable fill material.	NAIROBI KENYA							
					8. All measurements are in millimetres unless stated otherwise	Tel:4402081/2,3534086							
						<table><tr><td>Drawn By: ---</td><td rowspan="4">Drg NO: UON/2019/02/07</td></tr><tr><td>Checked BY: Eng E.C. GORO</td></tr><tr><td>Approved By:</td></tr><tr><td>Scale: AS SHOWN</td></tr><tr><td>Date: NOVEMBER 2019</td><td></td></tr></table>	Drawn By: ---	Drg NO: UON/2019/02/07	Checked BY: Eng E.C. GORO	Approved By:	Scale: AS SHOWN	Date: NOVEMBER 2019	
Drawn By: ---	Drg NO: UON/2019/02/07												
Checked BY: Eng E.C. GORO													
Approved By:													
Scale: AS SHOWN													
Date: NOVEMBER 2019													

[illegible]

1. All concrete to be approved by Engineer before concreting.
2. Exaction to be class 25/20 with minimum crushing strength of 17.5 N/mm² and 25 N/mm² at 7 days and 28 days respectively.
3. Minimum cover to reinforcement to be as shown below:
 - A). Foundation- 50mm
 - B). Columns 40mm
 - C). Beams-35mm
 - D). Slab-25mm
4. All dimensions to be verified and discrepancy reported to the Engineer
5. Binding concrete to be class 15/20 with minimum crushing strength of 15N/mm² at 28 days.
6. All reinforcement works MUST be approved by the Engineer before concreting.
7. All unsuitable soils to be removed and replaced with suitable fill material.
8. All measurements are in millimetres unless stated otherwise

GORO CONSULTANTS
2nd Floor ,Rattansi E.T Bldg
Koinange/Monrovia Street
P.O Box 55501-00200
NAIROBI KENYA
Tel:4402081/2,3534086

Drawn By:	...
Checked BY:	Eng E.C. GORO
Approved By:	
Scale:	AS SHOWN
Date:	NOVEMBER 2019

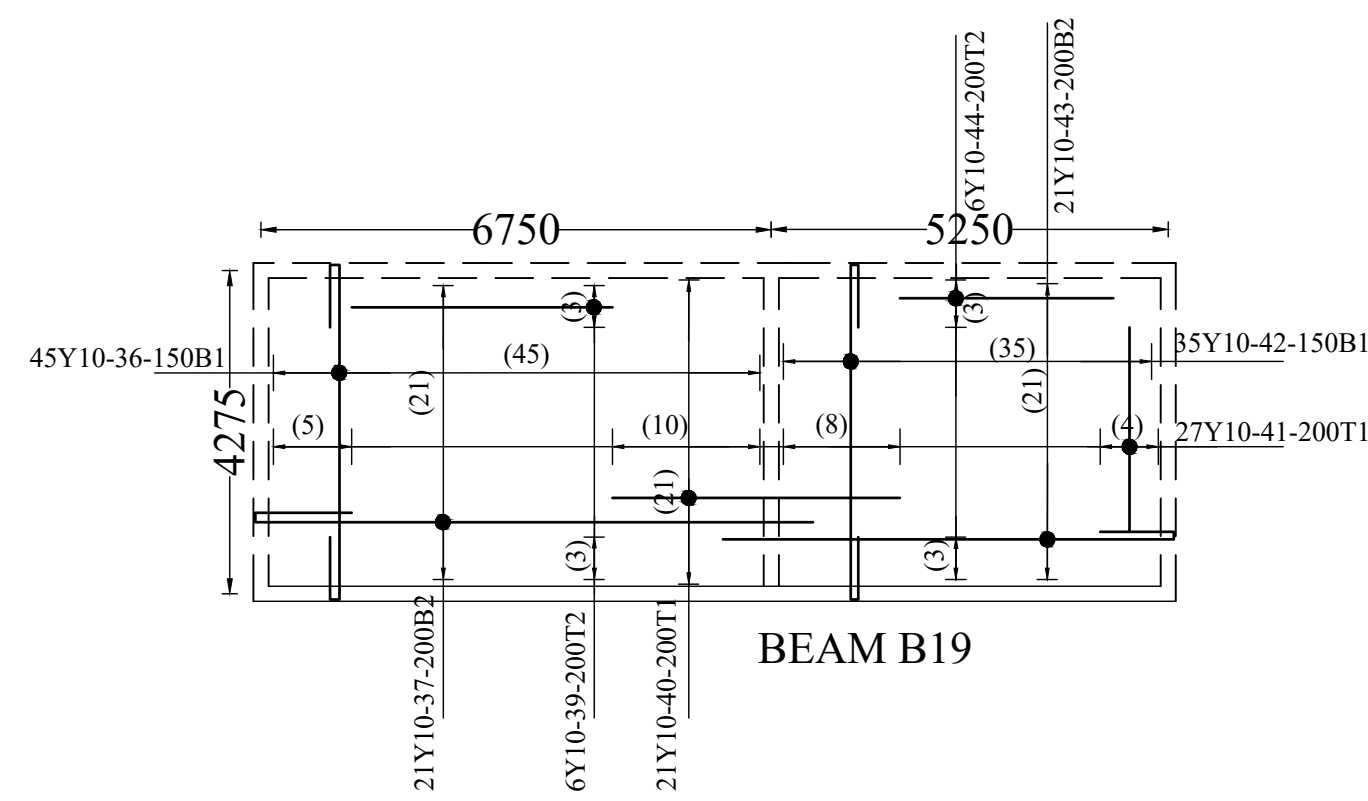
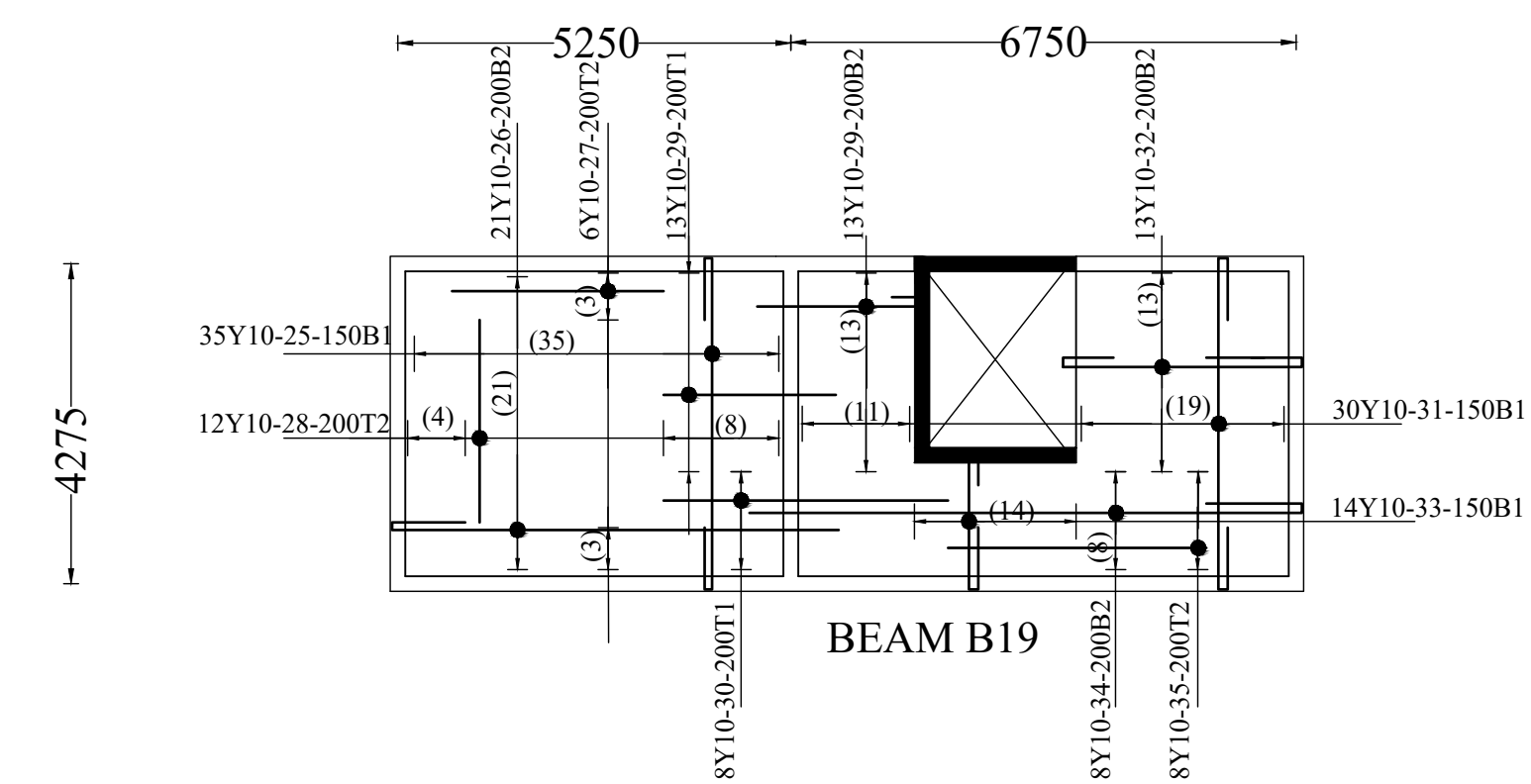
Drg NO: UON/2019/02/08



NOTES

1. All excavation to be approved by Engineer before concreting.
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 - A). Foundation- 50mm
 - B). Columns- 40mm
 - C). Beams- 30mm
 - D). Slab- 25mm
4. All dimensions to be verified and discrepancy reported to the Engineer
5. Blinding concrete to be class 15/20 with minimum crushing strength of 15N/mm² at 28 days.
6. All reinforcement works MUST be approved by the Engineer before concreting.
7. All unsuitable soils to be removed and replaced with suitable fill material.
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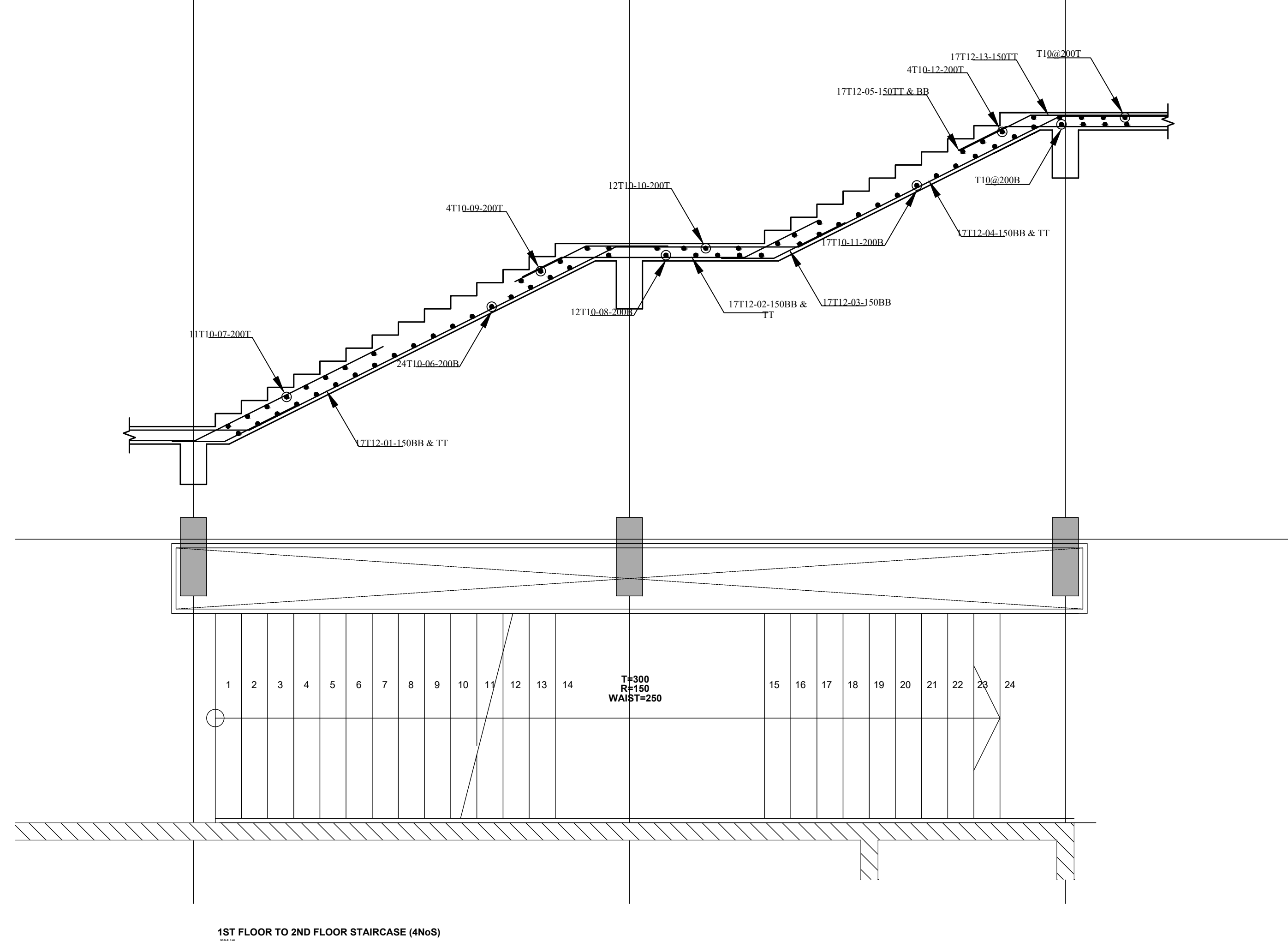
PROJECT:		KOITALEEL ARAP SAMOEI CAMPUS ADMINISTRATION BLOCK	
DRAWING:			
SLAB REINFORCEMENT DETAILS			
CLIENT			
UNIVERSITY OF NAIROBI			
GORO CONSULTANTS 2nd Floor, Rattansi E.T Bldg Koinange/Monrovia Street P.O Box 55501-00200 NAIROBI KENYA Tel:4402081/2,3534086	Drawn By: ...		Drg NO: UON/2019/02/09
	Checked By: Eng E.C. GORO		
	Approved By:		
	Scale: AS SHOWN		
	Date: NOVEMBER 2019		



NOTES

1. All excavation to be approved by Engineer before concreting.
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PROJECT:		
KOITALEEL ARAP SAMOEI CAMPUS ADMINSTRATION BLOCK		
DRAWING:		
SLAB REINFORCEMENT DETAILS		
CLIENT		
UNIVERSITY OF NAIROBI		
GORO CONSULTANTS 2nd Floor ,Rattansi E.T Bldg Koinange/Monrovia Street P.O Box 55501-00200 NAIROBI KENYA Tel:4402081/2,3534086	Drawn By: ...	Drg NO: UON/2019/02/10
	Checked By: Eng E.C. GORO	
	Approved By:	
	Scale: AS SHOWN	
	Date: NOVEMBER 2019	





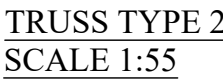
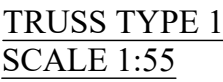
NOTES

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CLIENT
UNIVERSITY OF NAIROBI
GORO CONSULTANTS
2nd Floor ,Rattansi E.T Bldg
Koinange/Monrovia Street
P.O Box 55501-00200
NAIROBI KENYA
Tel:4402081/2,3534086

Drawn By:	...
Checked BY:	Eng E.C. GORO
Approved By:	
Scale:	1:75
Date:	NOVEMBER 2019

Drg NO: UON/2019/02/12



NOTES

1. All excavation to be approved by Engineer before concreting.
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 - D). Slab-25mm
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6. All reinforcement works MUST be approved by the Engineer before concreting.
7. All unsuitable soils to be removed and replaced with suitable fill material.
8. All measurements are in millimetres unless stated otherwise

PROJECT:	KOITALEEL ARAP SAMOEI CAMPUS ADMINISTRATION BLOCK
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DRAWING:
TRUSSES

CLIENT
UNIVERSITY OF NAIROBI

GORO CONSULTANTS
2nd Floor ,Rattansi E.T Bldg
Koinange/Monrovia Street
P.O Box 55501-00200
NAIROBI KENYA
Tel:4402081/2,3534086

Drawn By:	...
Checked BY:	Eng E.C. GORO
Approved By:	
Scale:	1:75
Date:	NOVEMBER 2019

Reg NO: UON/2019/02/13