

FOUNDATION LAYOUT
150mm ground floor slab

NOTES
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 3. All reinforced concrete to be Class 25 mix and blinding concrete to be Class 15 mix.
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 5. Any discrepancy in dimensions to be reported to the project consultants i.e architect or engineer.

6. Symbols; Y-Square twisted bars to BS 4461: T - Top face
 B - Bottom face
 7. Cover to reinforcement; Slabs - 20mm,
 Beams - 25mm, Columns - 40mm, Foundations - 50mm
 8. All structural steel be grade 43A.
 9. All welds are 6mm thick.
 10. All structural steel to be painted with anti-rust primer paint.

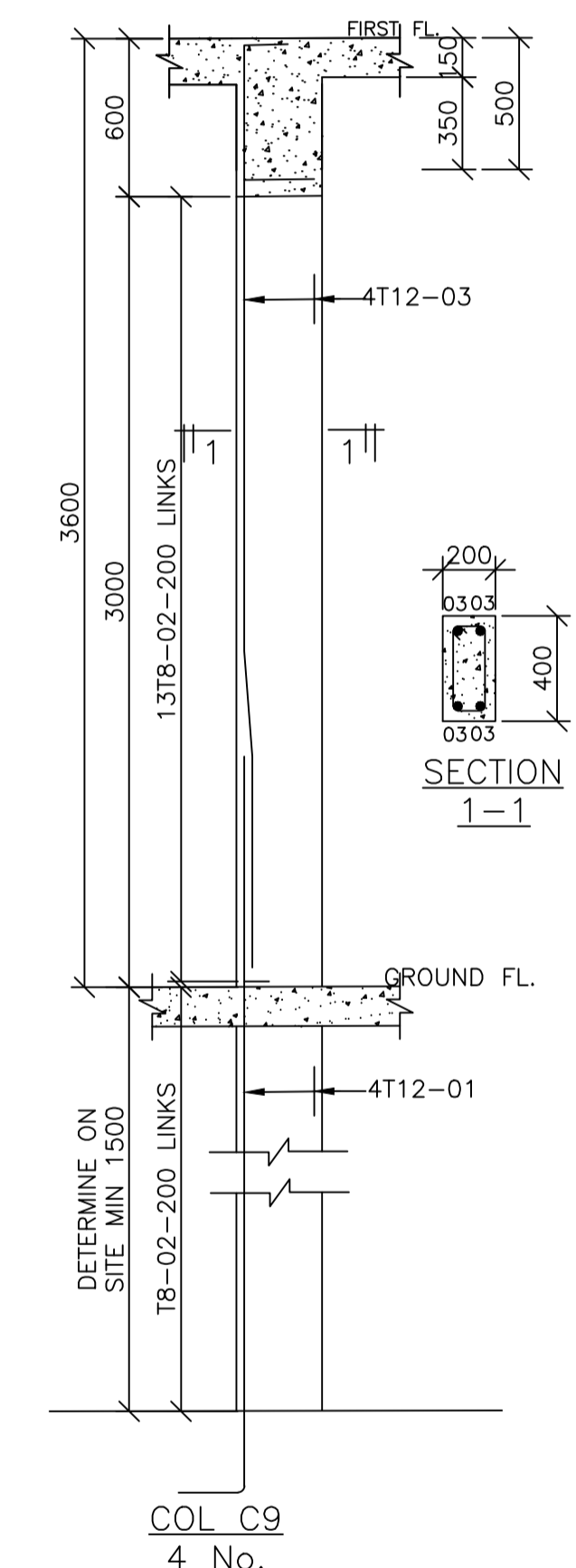
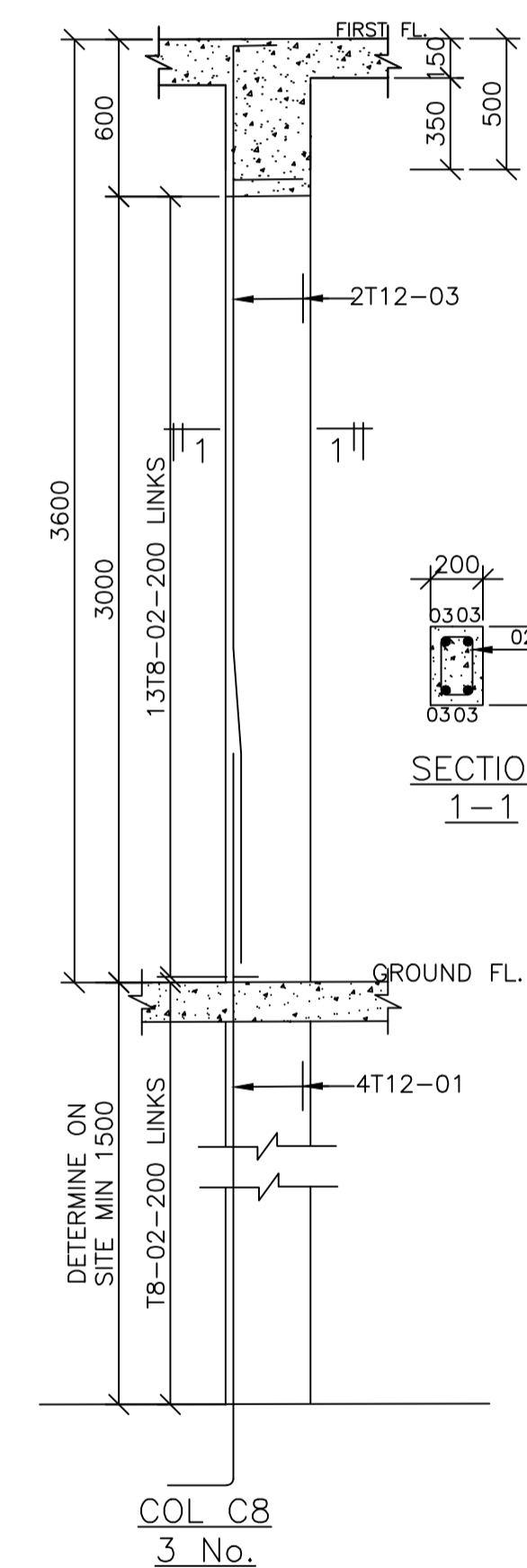
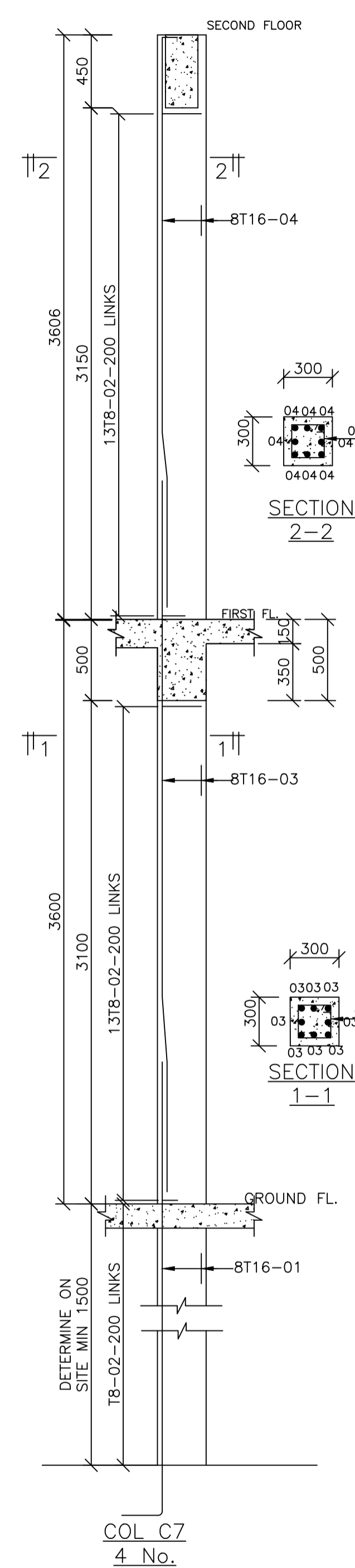
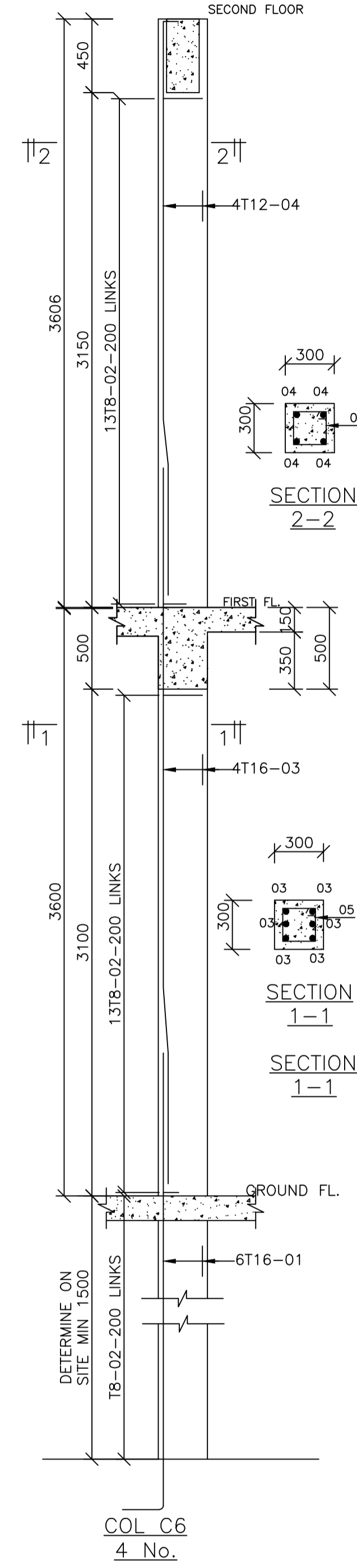
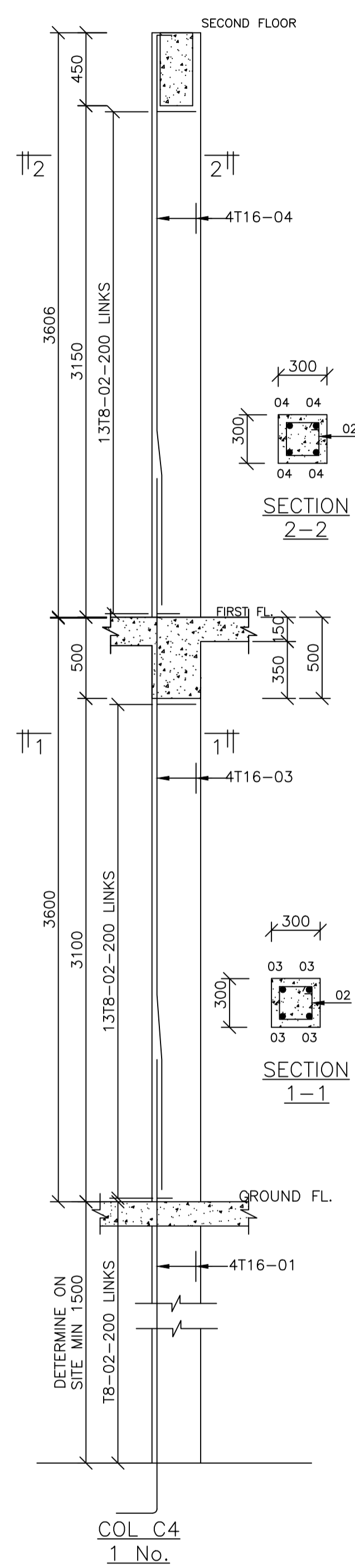
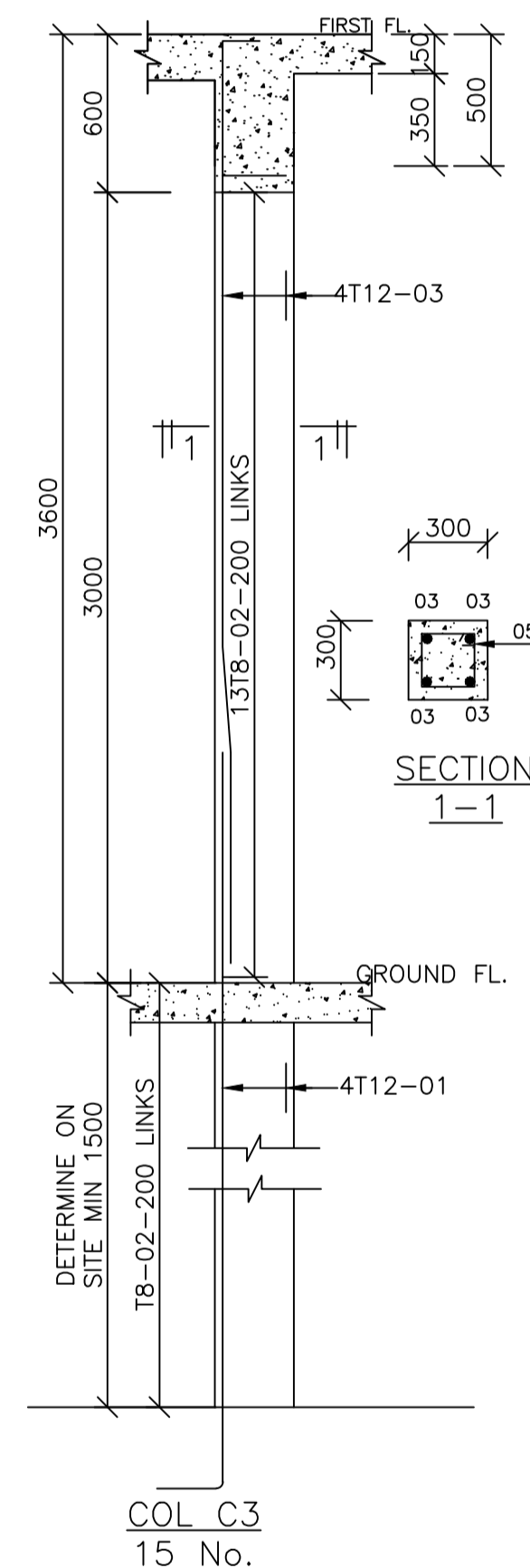
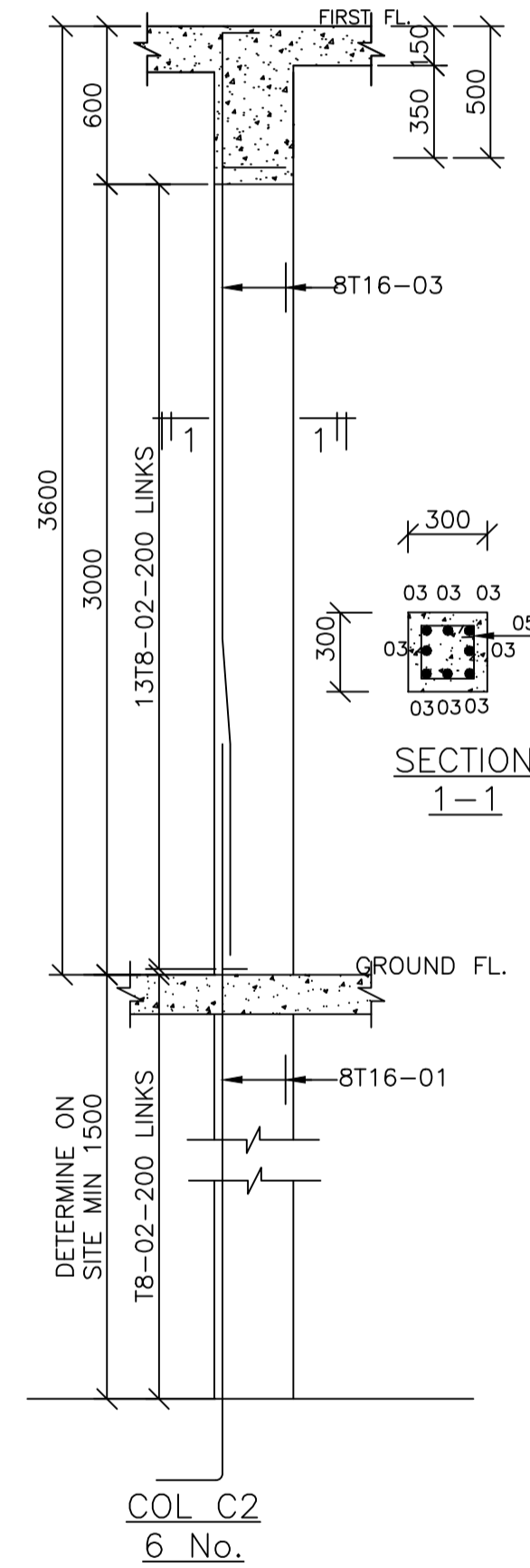
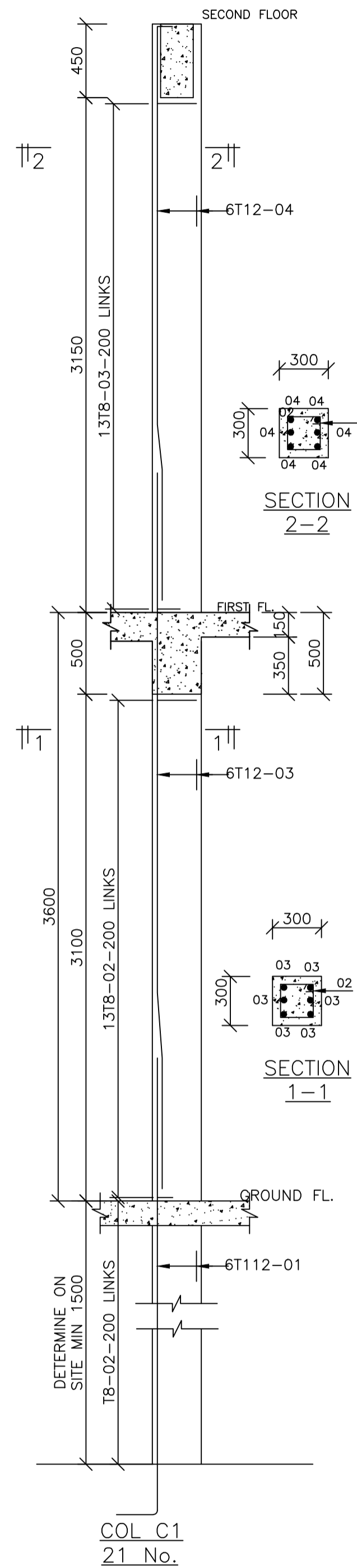
Client
 MINISTRY OF TRANSPORT, INFRASTRUCTURE,
 HOUSING AND URBAN DEVELOPMENT
 STATE DEPARTMENT FOR HOUSING AND URBAN
 DEVELOPMENT

STRUCTURAL ENGINEER:
 URBAN AND METROPOLITAN
 DEVELOPMENT

Designed by: *D. Masiria* / *Eng. Nyaga*
 Checked by: *Eng. Nyaga* / *D. Masiria*
 Approved by: SECRETARY, URBAN AND METROPOLITAN DEVELOPMENT
 Date: 30TH OCTOBER 2023 / Scale: As shown
 Drawing Number: UMD-ESP-01

Project
 PROPOSED ESP MARKET
Title
 FOUNDATION LAYOUT

Revisions		
No.	Description	Date



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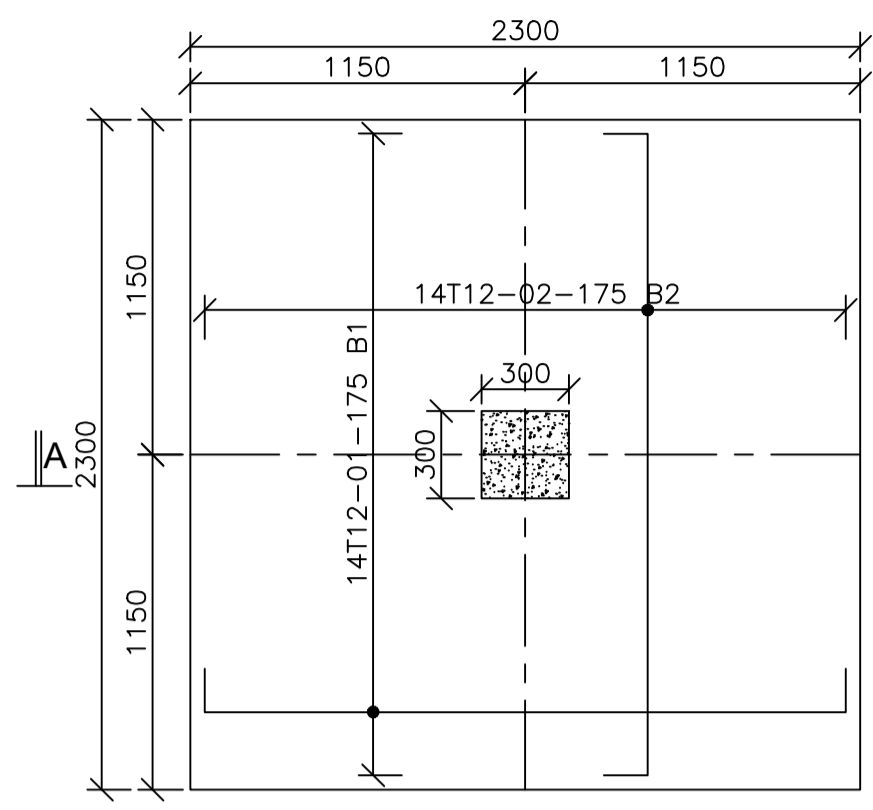
Client
 MINISTRY OF TRANSPORT, INFRASTRUCTURE,
 HOUSING AND URBAN DEVELOPMENT
 STATE DEPARTMENT FOR HOUSING AND URBAN
 DEVELOPMENT

STRUCTURAL ENGINEER:
 URBAN AND METROPOLITAN
 DEVELOPMENT

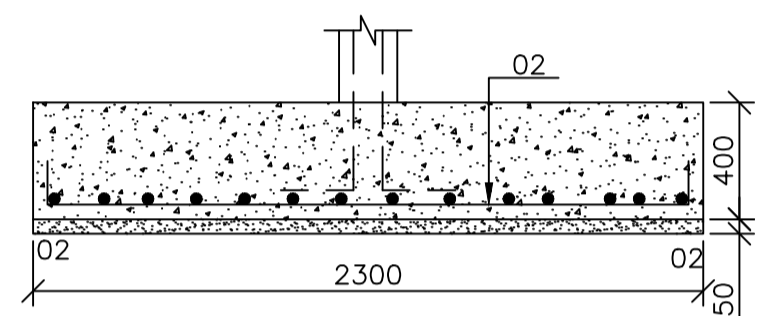
Designed by: D. Masiria
 Eng. Nyaga
 Checked by: Eng. Nyaga
 D. Masiria
 Approved by: SECRETARY, URBAN AND
 METROPOLITAN DEVELOPMENT
 Date: 30TH OCTOBER 2023
 Scale: As shown
 Drawing Number: UMD-ESP-02

Project
 PROPOSED ESP MARKET
Title
 COLUMNS R.C DETAILS

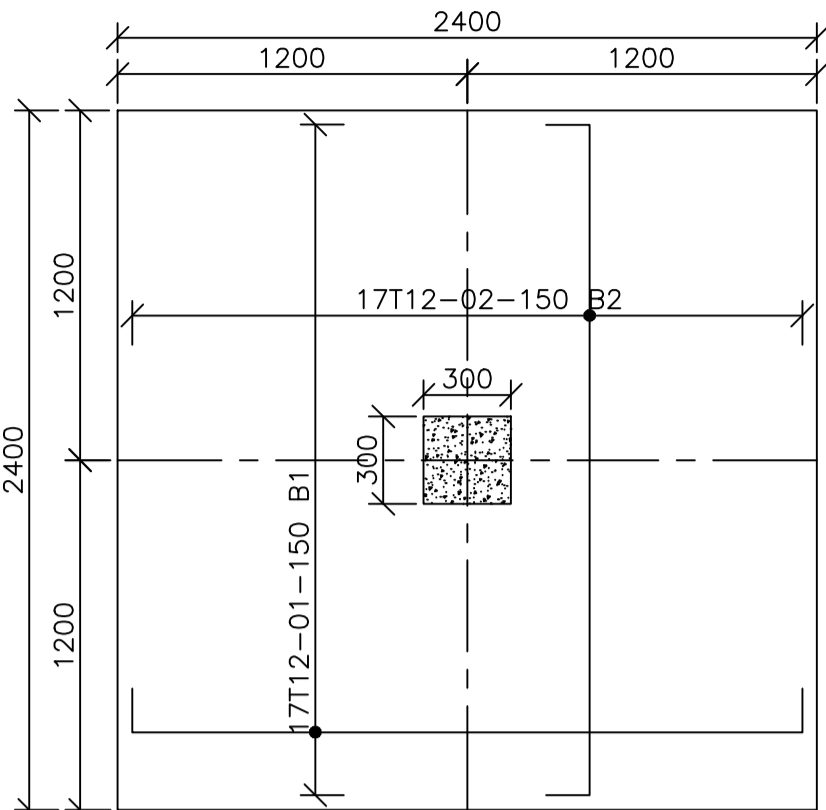
Revisions		
No.	Description	Date



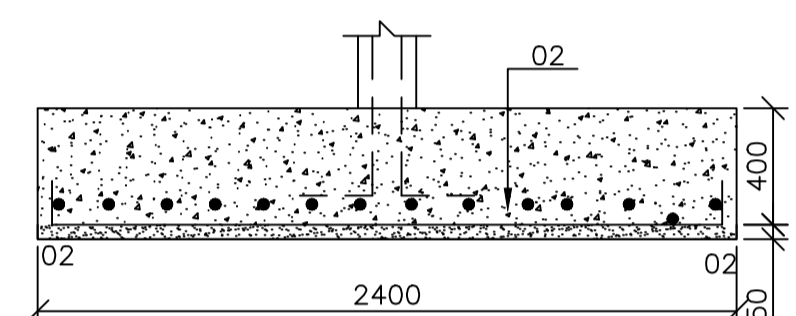
BASE B1
2300X2300X400mm
21No.
SCALE 1:25



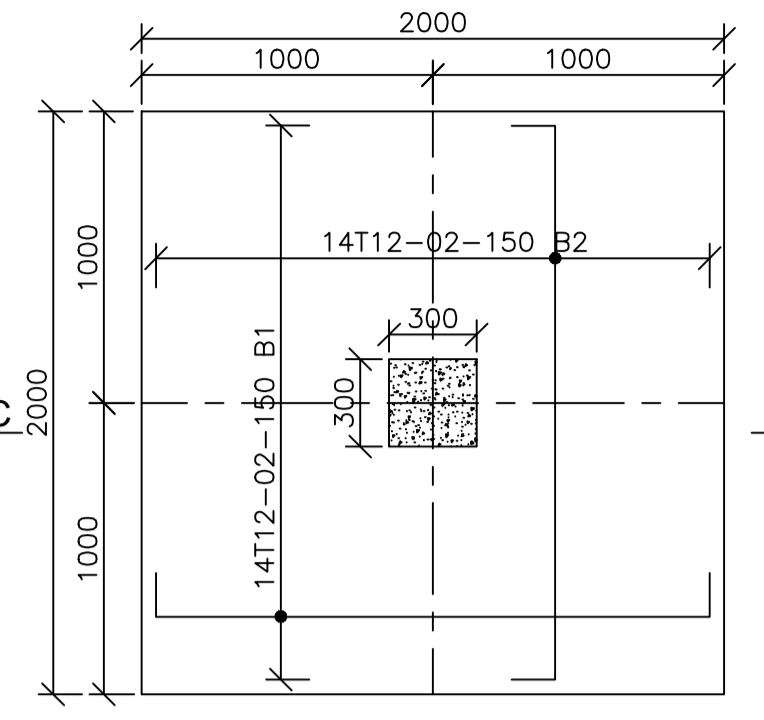
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SCALE 1:25



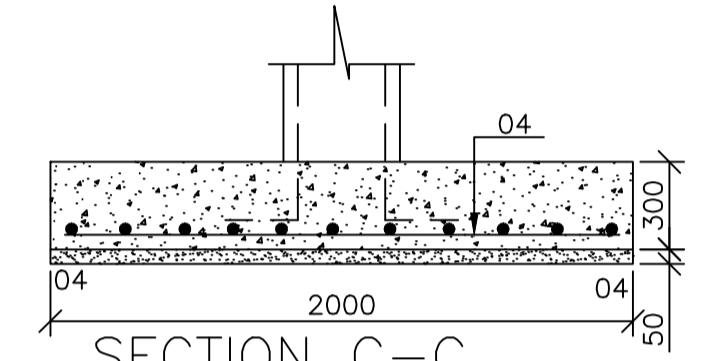
BASE B2
2400X2400X400mm
5No.
SCALE 1:25



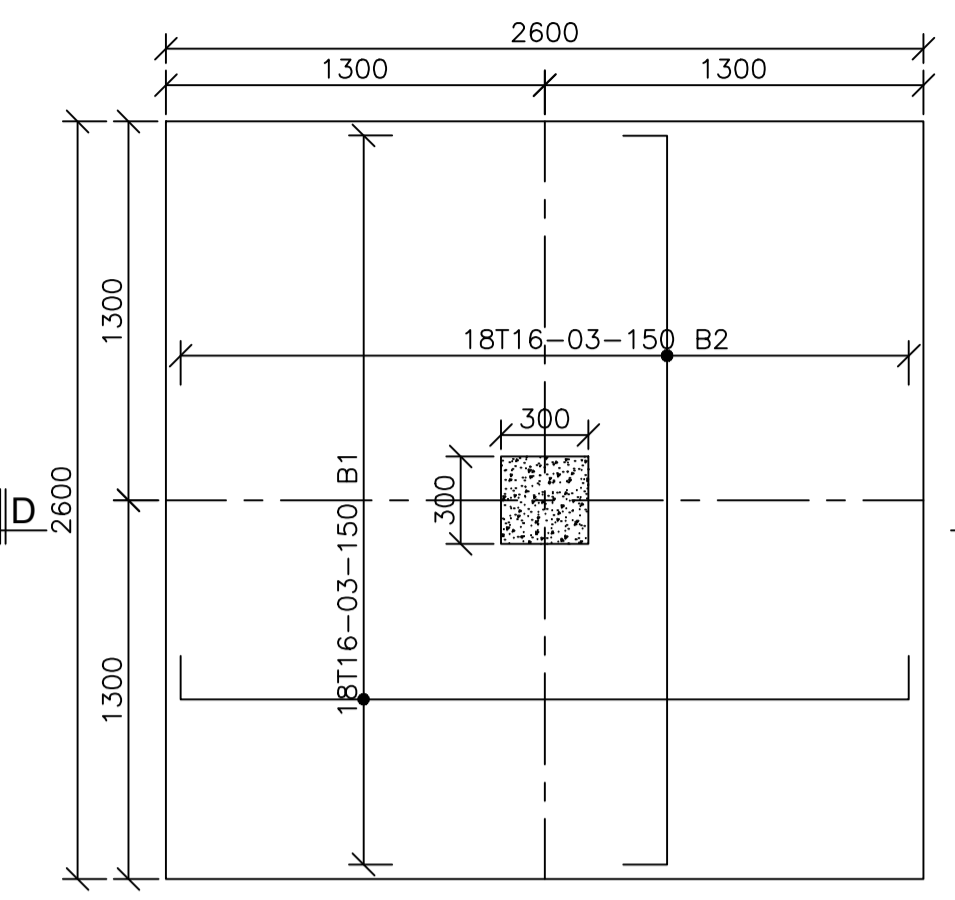
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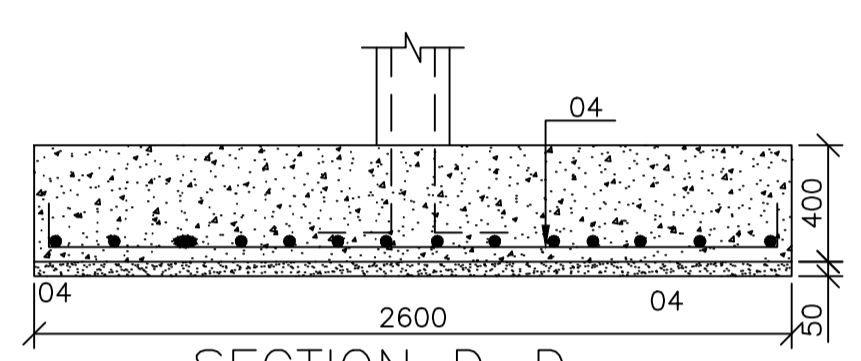
BASE B3
2000x2000x300mm
15No.
SCALE 1:25



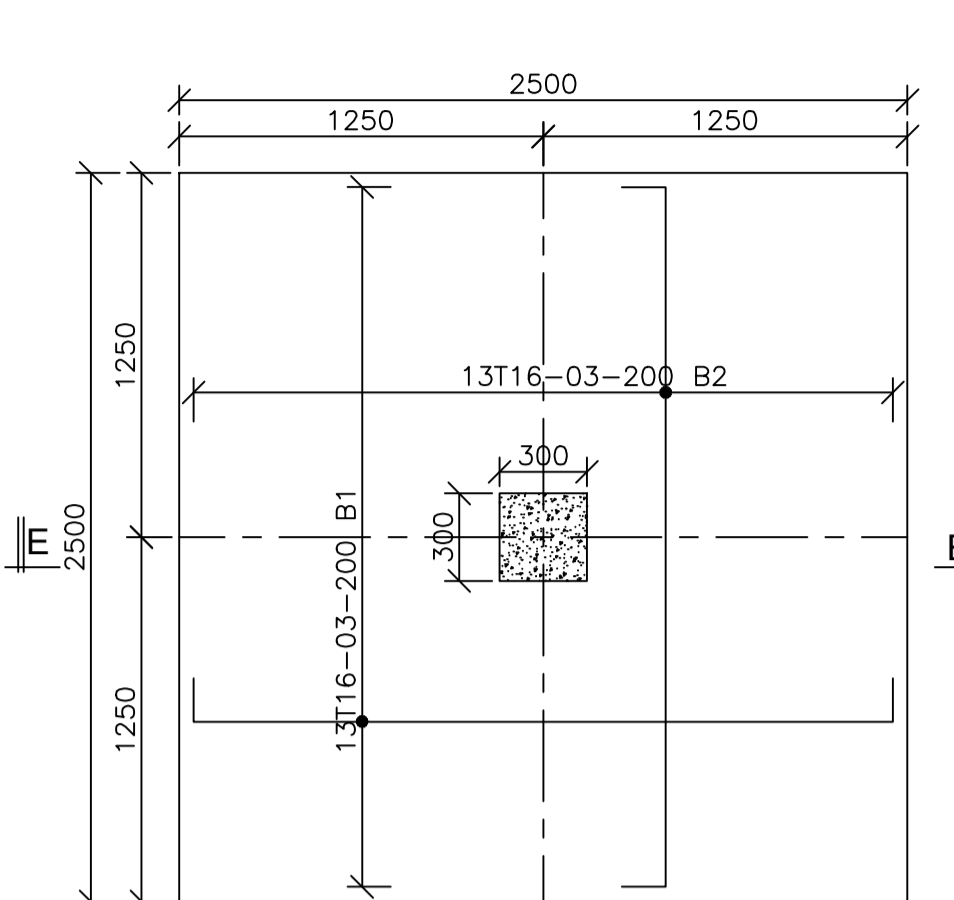
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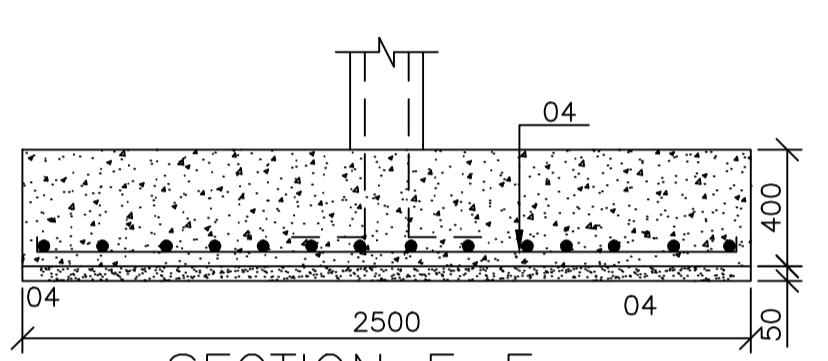
BASE B5
2500x2500x400mm
1No.
SCALE 1:25



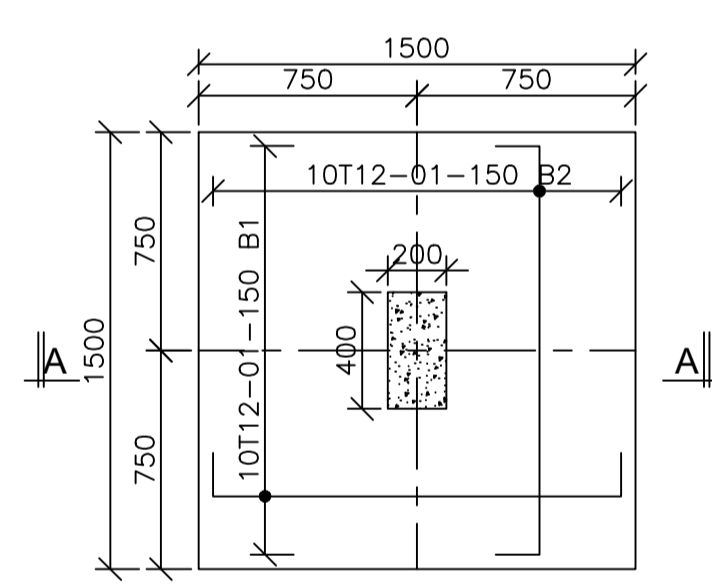
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SCALE 1:25



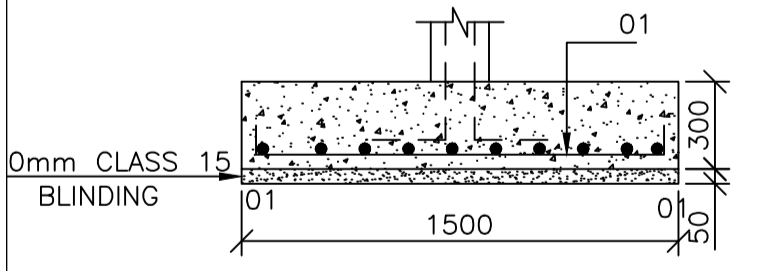
BASE B6
2500x2500x400mm
4No.
SCALE 1:25



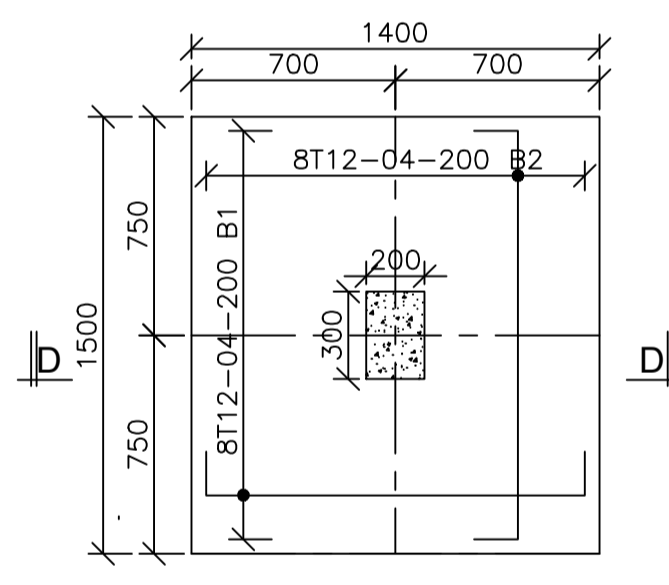
SECTION E-E
SCALE 1:25



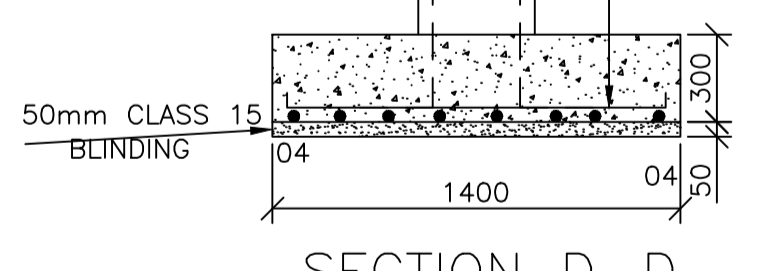
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1500X1500X300mm
4No.
SCALE 1:25



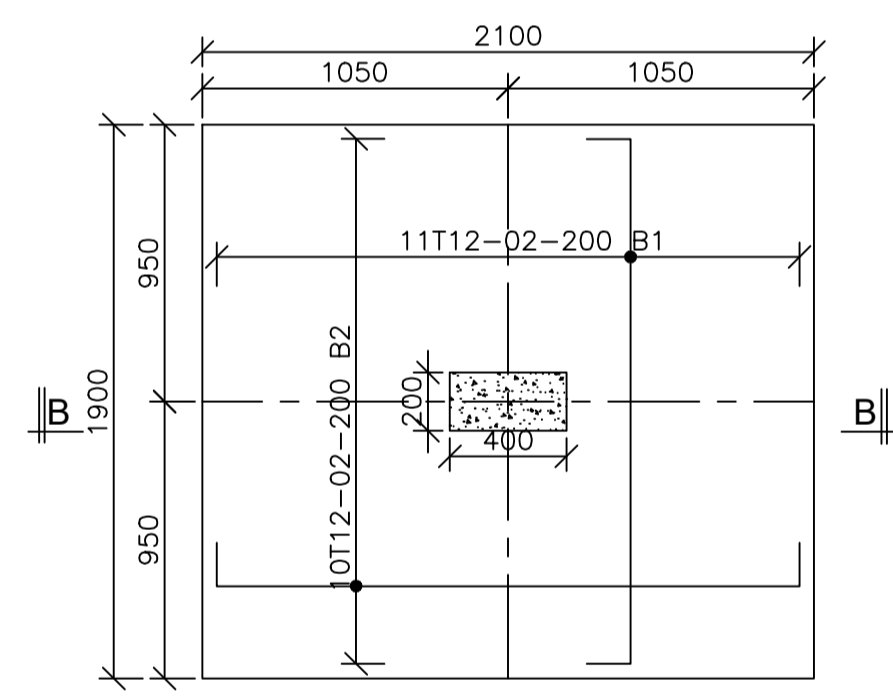
SECTION A-A
SCALE 1:25



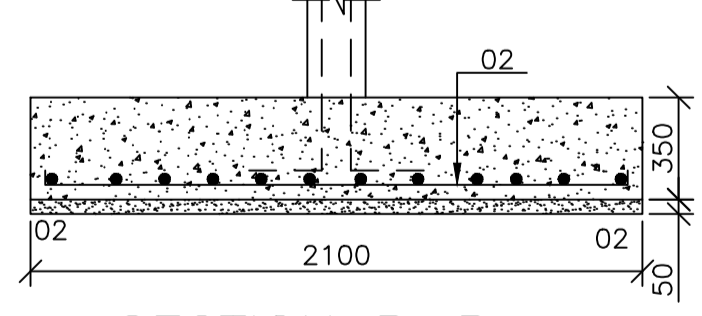
BASE B8
1400x1500x300mm
3No.
SCALE 1:25



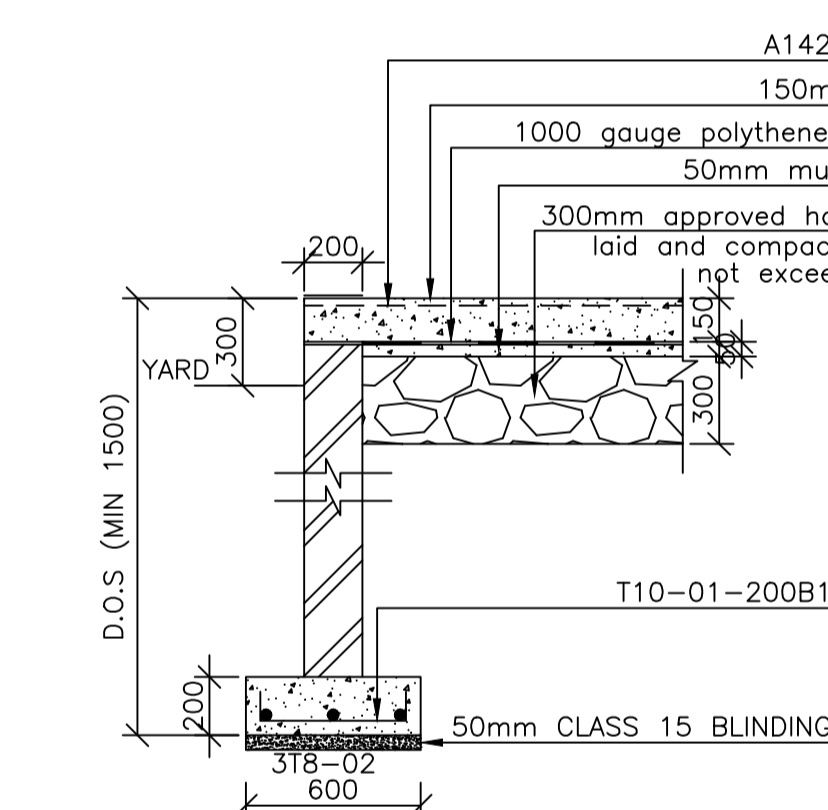
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SCALE 1:25



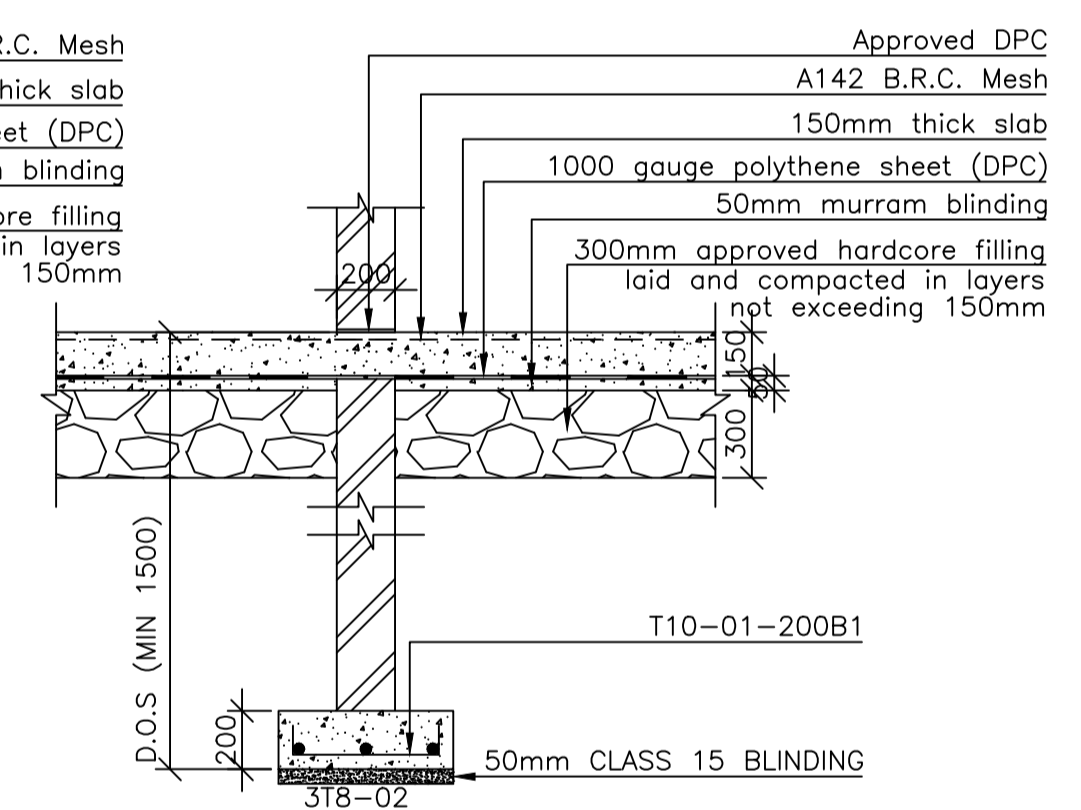
BASE B9
2100X1900X350mm
4No.
SCALE 1:25



SECTION B-B
SCALE 1:25



TYPICAL EXTERNAL FOOTING
SCALE 1:25



TYPICAL INTERNAL FOOTING
SCALE 1:25

BASE & COLUMN SCHEDULE					
BASES			COLUMN		
TYPE	SIZE	No.	TYPE	SIZE	No.
B1	2300x2300x400	21	C1	300x300	21
B2	2400x2400x400	5	C2	300x300	6
B3	2000x2000x300	15	C3	300x300	15
B4			C4	300x300	1
B5	2600x2600x400	1	C6	300x300	4
B6	2500x2500x400	4	C7	300x300	4
B7	1500x1500x300	4	C8	300x200	3
B8	1500x1400x300	3	C9	400x200	4
B9	2100x1900x350	4			

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9. All welds are 6mm thick.
10. All structural steel to be painted with anti-rust primer paint.

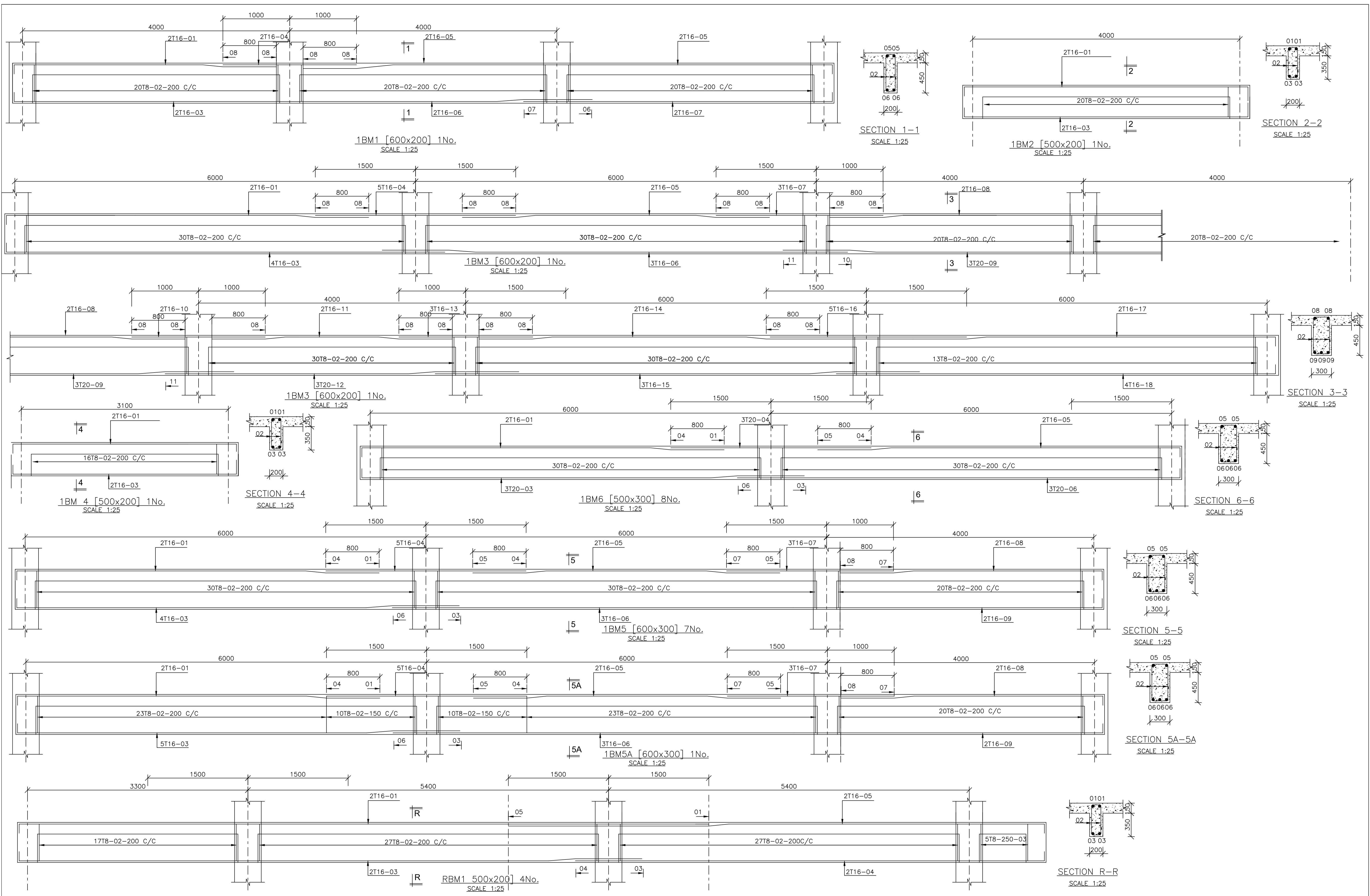
Client
MINISTRY OF TRANSPORT, INFRASTRUCTURE, HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT FOR HOUSING AND URBAN DEVELOPMENT

STRUCTURAL ENGINEER:
URBAN AND METROPOLITAN DEVELOPMENT

Designed by: D. Masiria
Eng. Nyaga
Checked by: Eng. Nyaga
D. Masiria
Approved by: SECRETARY, URBAN AND METROPOLITAN DEVELOPMENT
Date: 30TH OCTOBER 2023
Scale: As shown
Drawing Number: UMD-ESP-03

Project
PROPOSED ESP MARKET
Title
COLUMN BASES RC DETAILS

Revisions		
No.	Description	Date



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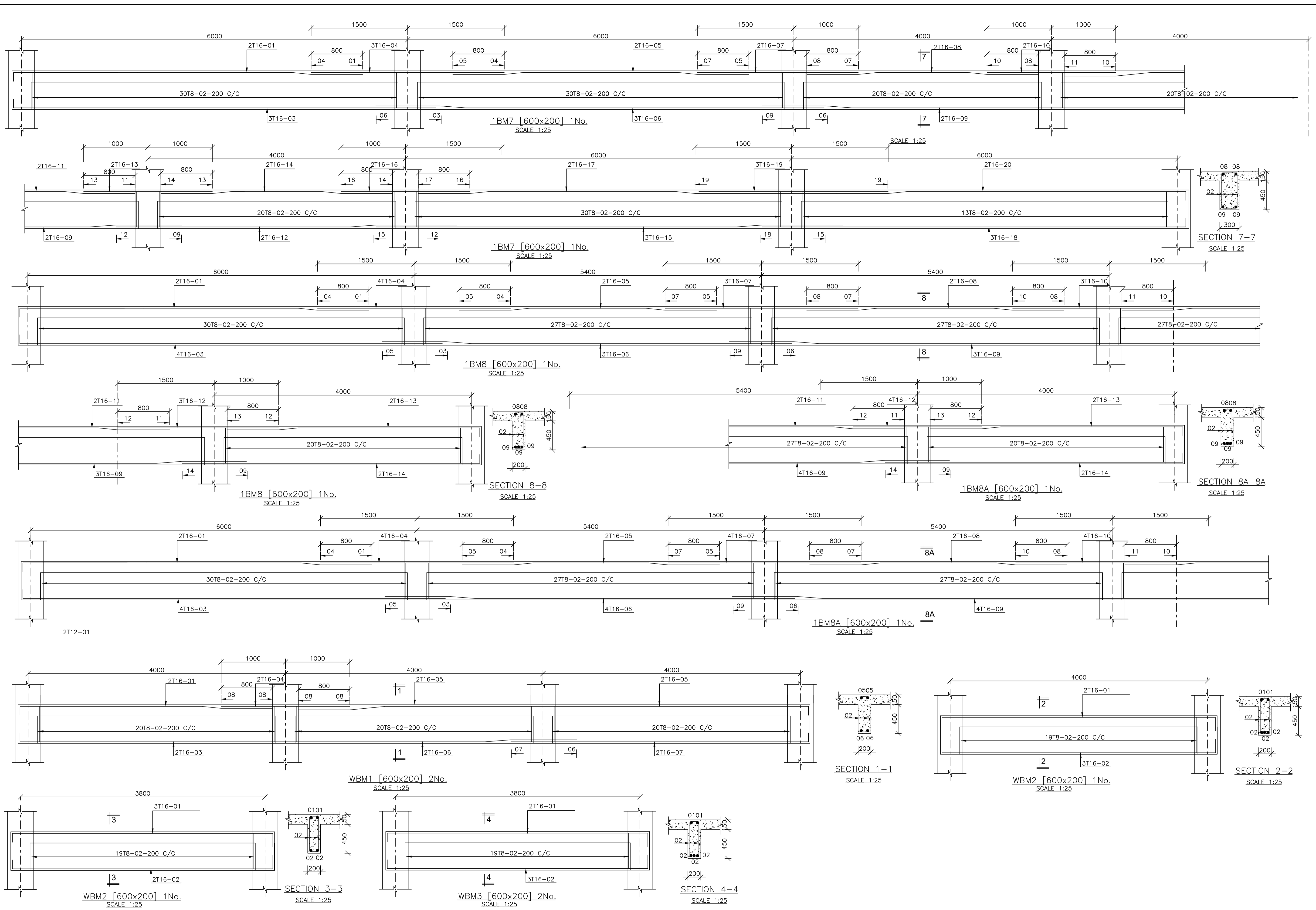
Client
 MINISTRY OF TRANSPORT, INFRASTRUCTURE,
 HOUSING AND URBAN DEVELOPMENT
 STATE DEPARTMENT FOR HOUSING AND URBAN
 DEVELOPMENT

STRUCTURAL ENGINEER:
 URBAN AND METROPOLITAN
 DEVELOPMENT

Designed by: D. Masiria
 Eng. Nyaya
 Checked by: Eng. Nyaya
 D. Masiria
 Approved by: SECRETARY, URBAN AND
 METROPOLITAN DEVELOPMENT
 Date: 30TH OCTOBER 2023
 Scale: As shown
 Drawing Number: UMD-ESP-04

Project
 PROPOSED ESP MARKET
Title
 FLOOR BEAMS

Revisions		
No.	Description	Date



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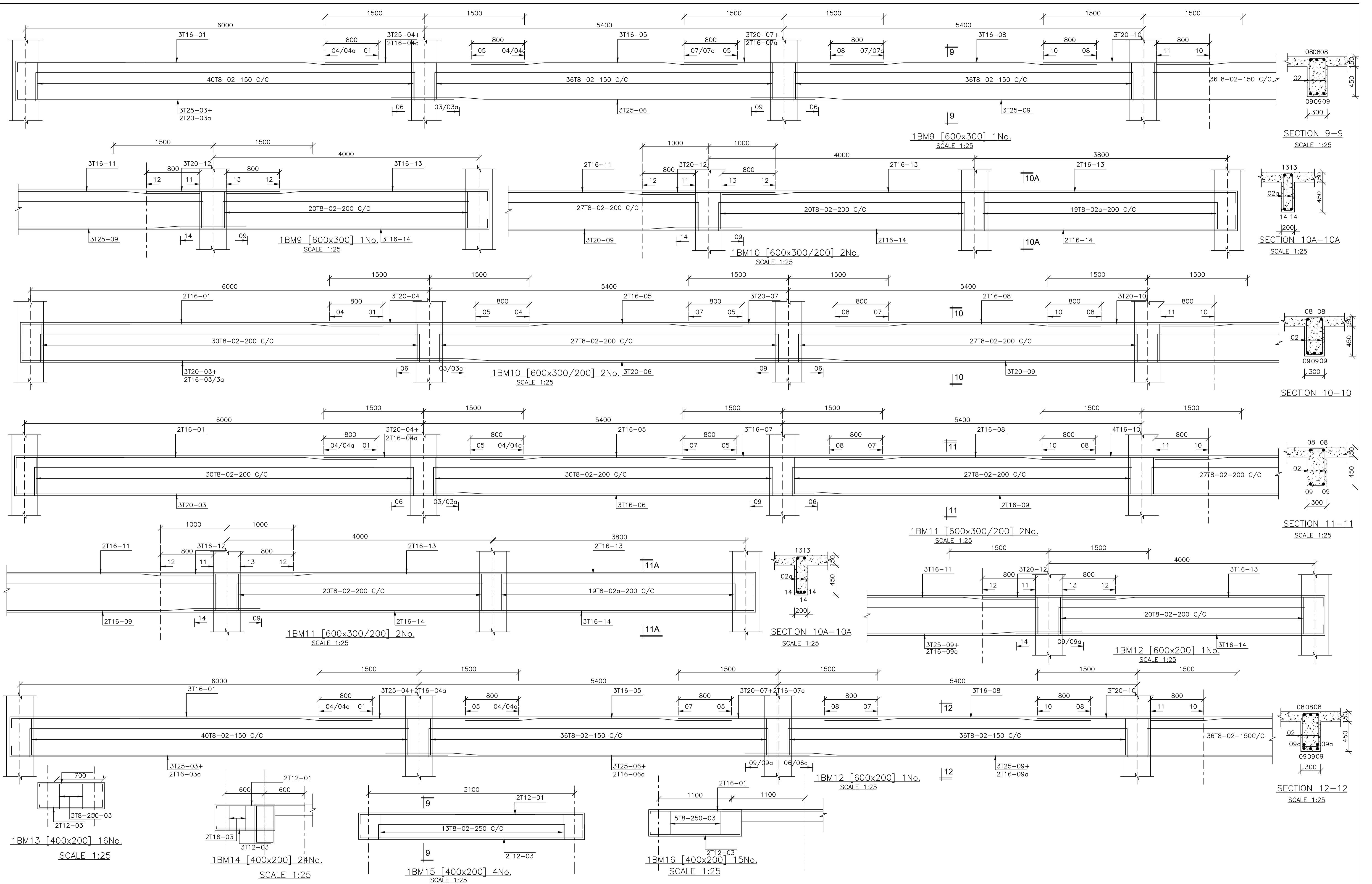
Client
 MINISTRY OF TRANSPORT, INFRASTRUCTURE,
 HOUSING AND URBAN DEVELOPMENT
 STATE DEPARTMENT FOR HOUSING AND URBAN
 DEVELOPMENT

STRUCTURAL ENGINEER:
 URBAN AND METROPOLITAN
 DEVELOPMENT

Designed by: *D. Mosiria*
 Eng. Nyaga
 Checked by: *Eng. Nyaga*
 D. Mosiria
 Approved by: SECRETARY, URBAN AND
 METROPOLITAN DEVELOPMENT
 Date: 30TH OCTOBER 2023
 Scale: As shown
 Drawing Number: UMD-ESP-05

Project
 PROPOSED ESP MARKET
Title
 FLOOR BEAMS

Revisions		
No.	Description	Date



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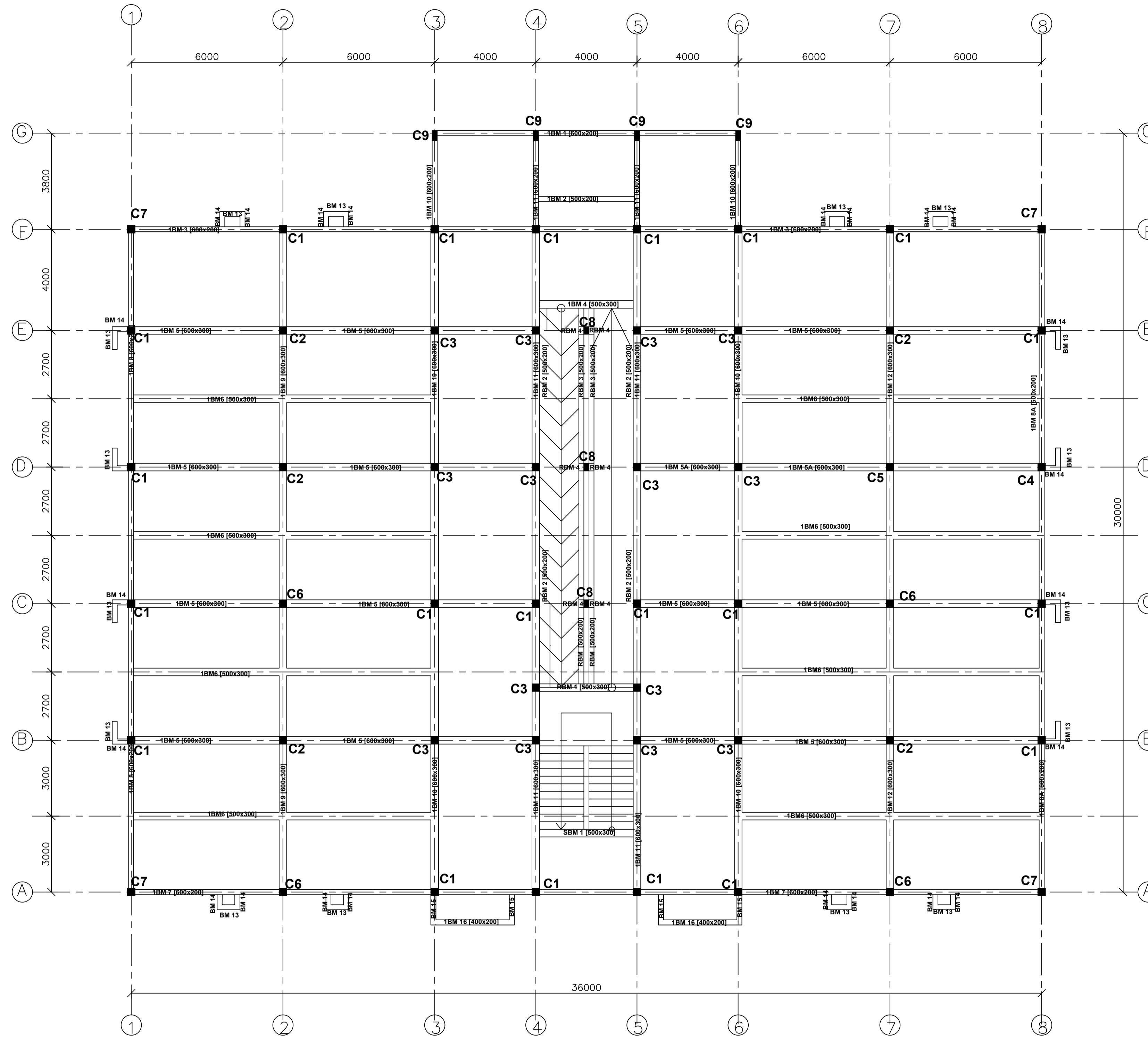
Client
 MINISTRY OF TRANSPORT, INFRASTRUCTURE,
 HOUSING AND URBAN DEVELOPMENT
 STATE DEPARTMENT FOR HOUSING AND URBAN
 DEVELOPMENT

STRUCTURAL ENGINEER:
 URBAN AND METROPOLITAN
 DEVELOPMENT

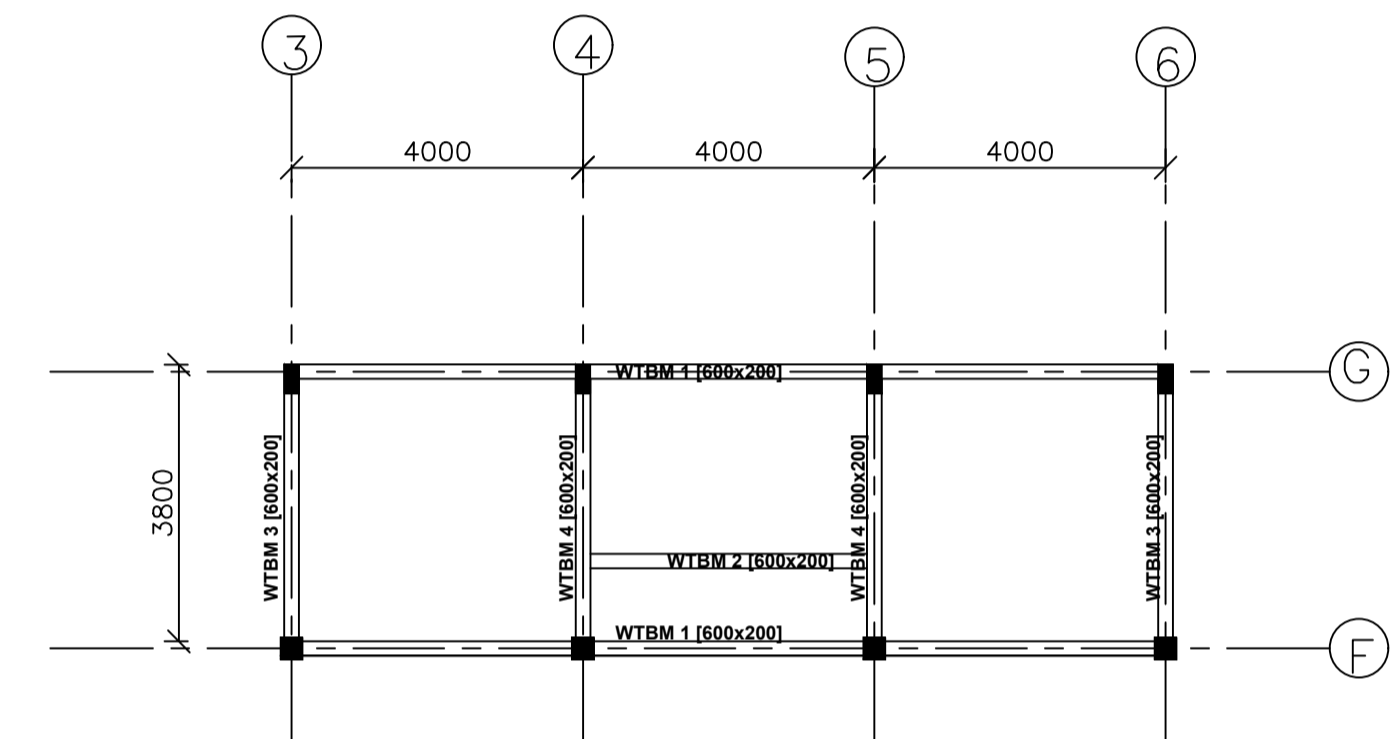
Designed by: *D. Masiria*
Eng. Nyaga
 Checked by: *Eng. Nyaga*
D. Masiria
 Approved by: SECRETARY, URBAN AND
 METROPOLITAN DEVELOPMENT
 Date: 30TH OCTOBER 2023 Scale: As shown
 Drawing Number: UMD-ESP-07

Project
 PROPOSED ESP MARKET
Title
 FLOOR BEAMS

Revisions		
No.	Description	Date



FIRST FLOOR BEAM LAYOUT
The Slab is 150mm Thick Suspended RC Slab



WATER TANK SLAB & BEAM LAYOUT
The Slab is 150mm Thick Suspended RC Slab

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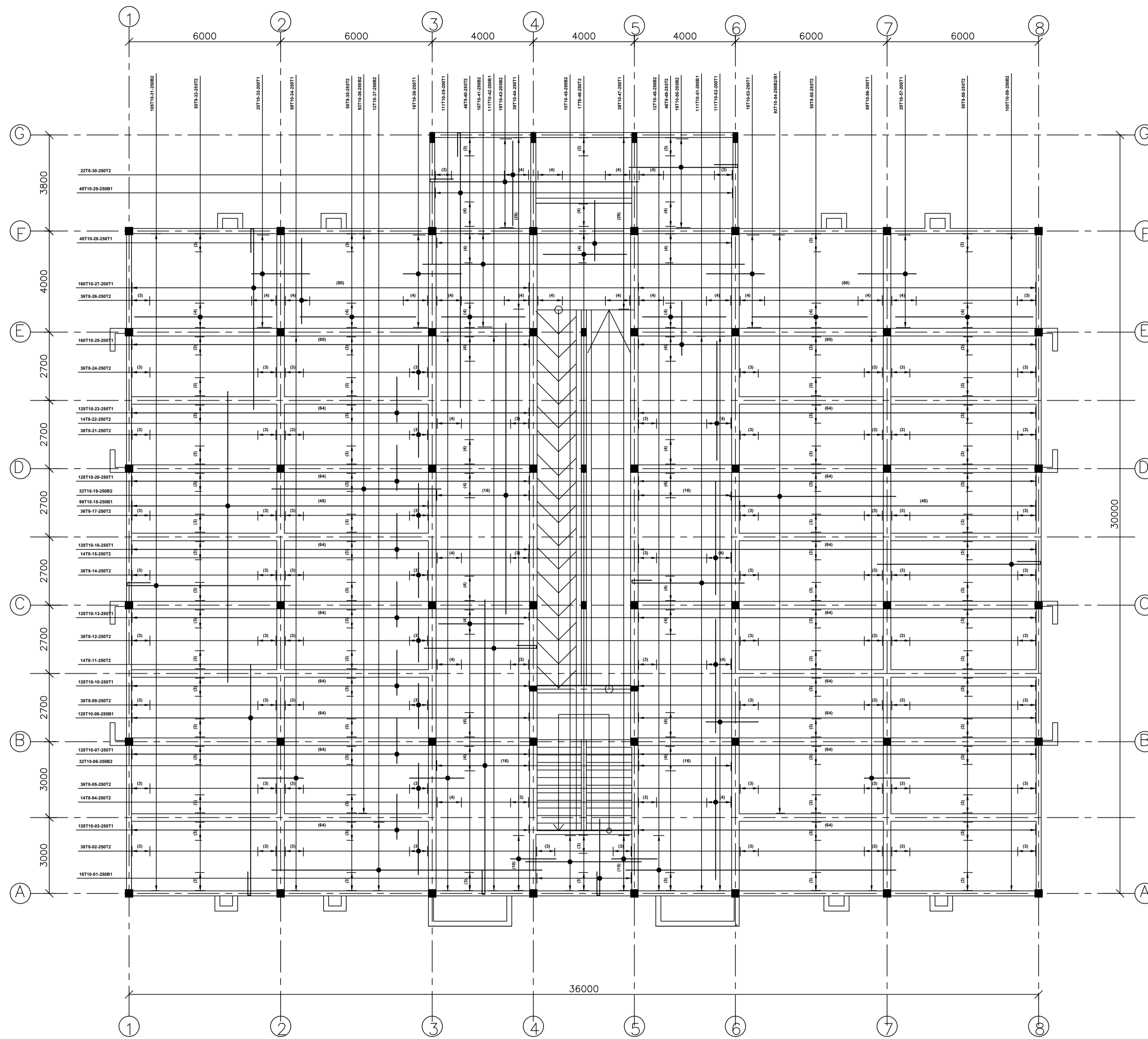
Client
MINISTRY OF TRANSPORT, INFRASTRUCTURE,
HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT FOR HOUSING AND URBAN
DEVELOPMENT

STRUCTURAL ENGINEER:
URBAN AND METROPOLITAN
DEVELOPMENT

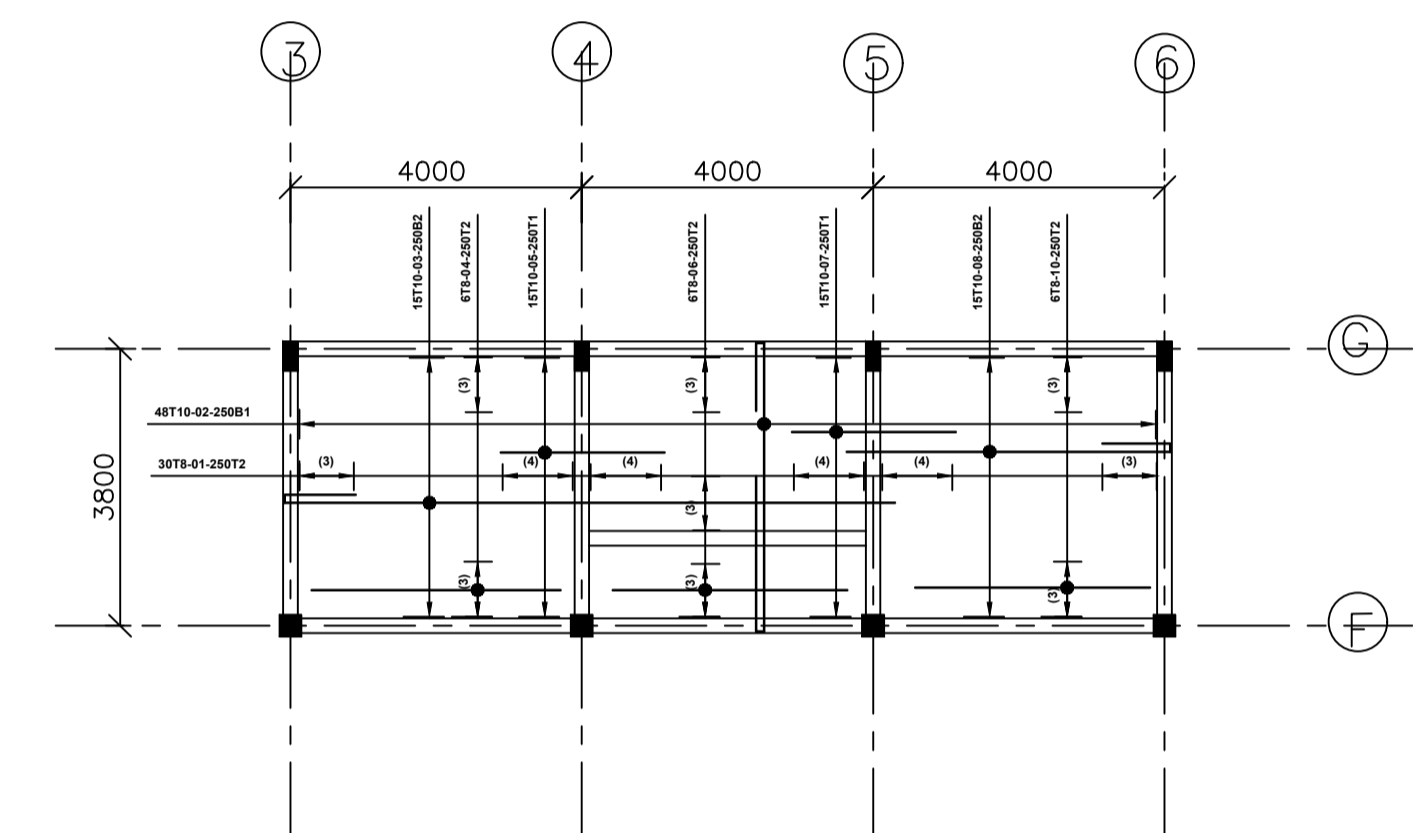
Designed by: *D. Masiria*
Eng. Nyaga
Checked by: *Eng. Nyaga*
D. Masiria
Approved by: SECRETARY, URBAN AND
METROPOLITAN DEVELOPMENT
Date: **30TH OCTOBER 2023** Scale: *As shown*
Drawing Number: *UMD-ESP-06*

Project
PROPOSED ESP MARKET
Title
FLOOR BEAM LAYOUT

Revisions		
No.	Description	Date



FIRST FLOOR SLAB
The Slab is 150mm Thick Suspended RC Slab



WATER TANK FLOOR
The Slab is 150mm Thick Suspended RC Slab

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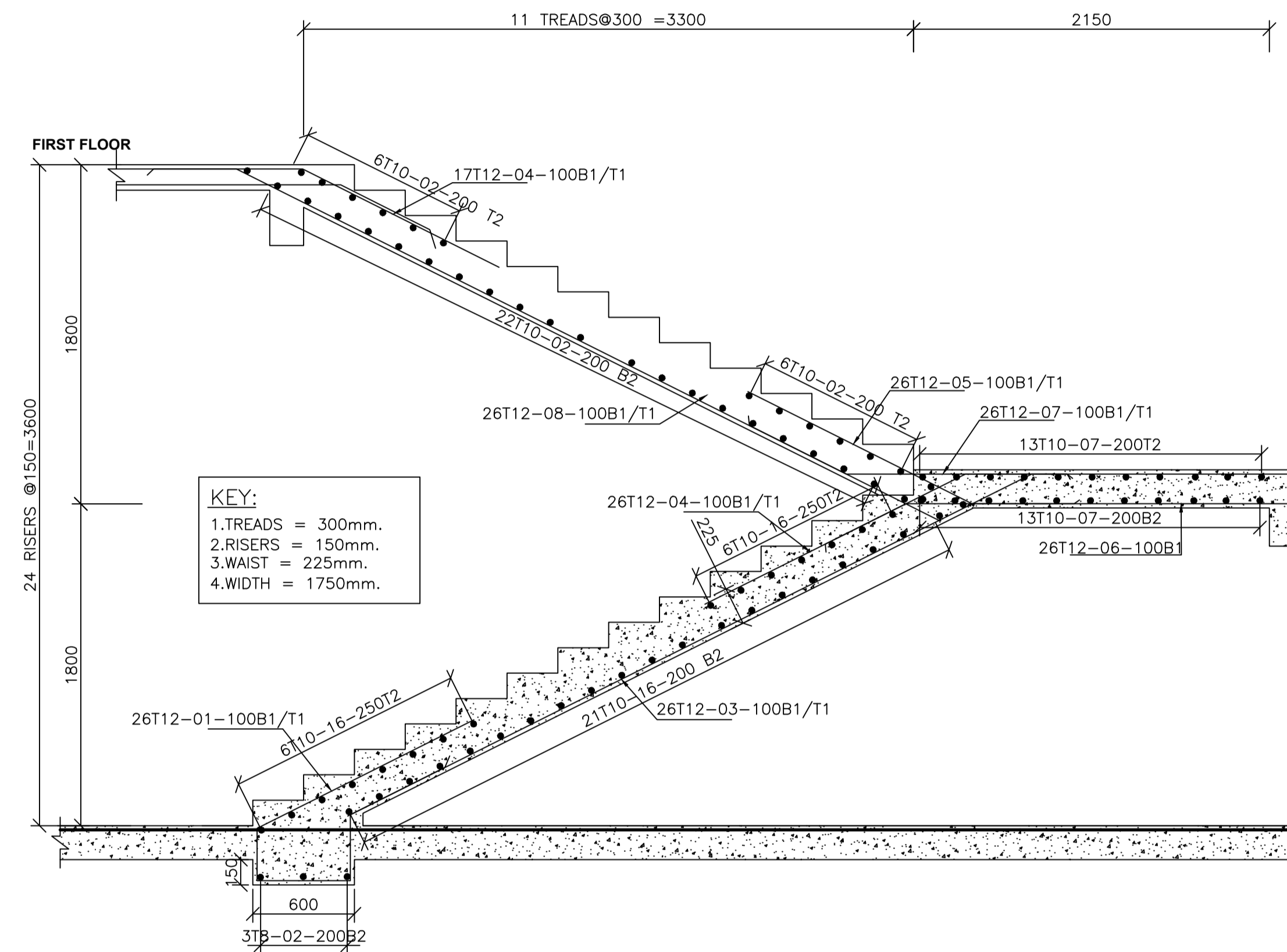
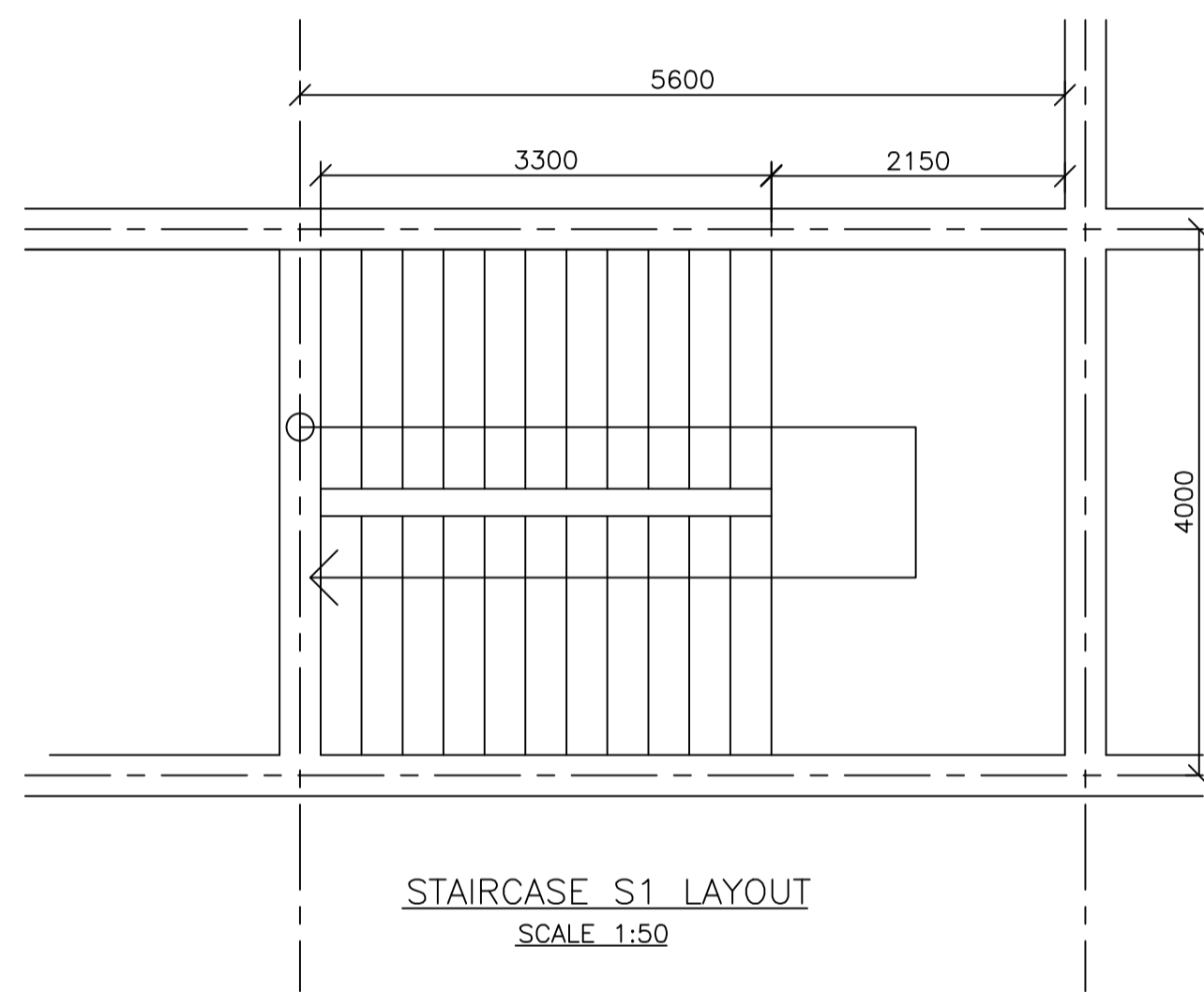
Client
 MINISTRY OF TRANSPORT, INFRASTRUCTURE,
 HOUSING AND URBAN DEVELOPMENT
 STATE DEPARTMENT FOR HOUSING AND URBAN
 DEVELOPMENT

STRUCTURAL ENGINEER:
 URBAN AND METROPOLITAN
 DEVELOPMENT

Designed by: *D. Masiria* / *Eng. Nyaga*
 Checked by: *Eng. Nyaga* / *D. Masiria*
 Approved by: SECRETARY, URBAN AND METROPOLITAN DEVELOPMENT
 Date: 30TH OCTOBER 2023 / Scale: As shown
 Drawing Number: UMD-ESP-08

Project
 PROPOSED ESP MARKET
Title
 FLOOR SLAB RC DETAILS.

Revisions		
No.	Description	Date



[STAIRCASE - S1 SECTION J]-1No.
SCALE 1:25

NOTES

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Client
MINISTRY OF TRANSPORT, INFRASTRUCTURE,
HOUSING AND URBAN DEVELOPMENT
STATE DEPARTMENT FOR HOUSING AND URBAN
DEVELOPMENT

STRUCTURAL ENGINEER:
URBAN AND METROPOLITAN
DEVELOPMENT

Designed by: *d.mosiria* Checked by: *F. OPANDE*
Approved by: SECRETARY, URBAN AND
METROPOLITAN DEVELOPMENT
Date: **23RD OCTOBER 2023** Scale: *As shown*
Drawing Number: *UMD-ESP-09*

Project
PROPOSED ENGINEER MARKET IN
NYANDARUA COUNTY
Title
STAIRCASE DETAILS

Revisions		
No.	Description	Date