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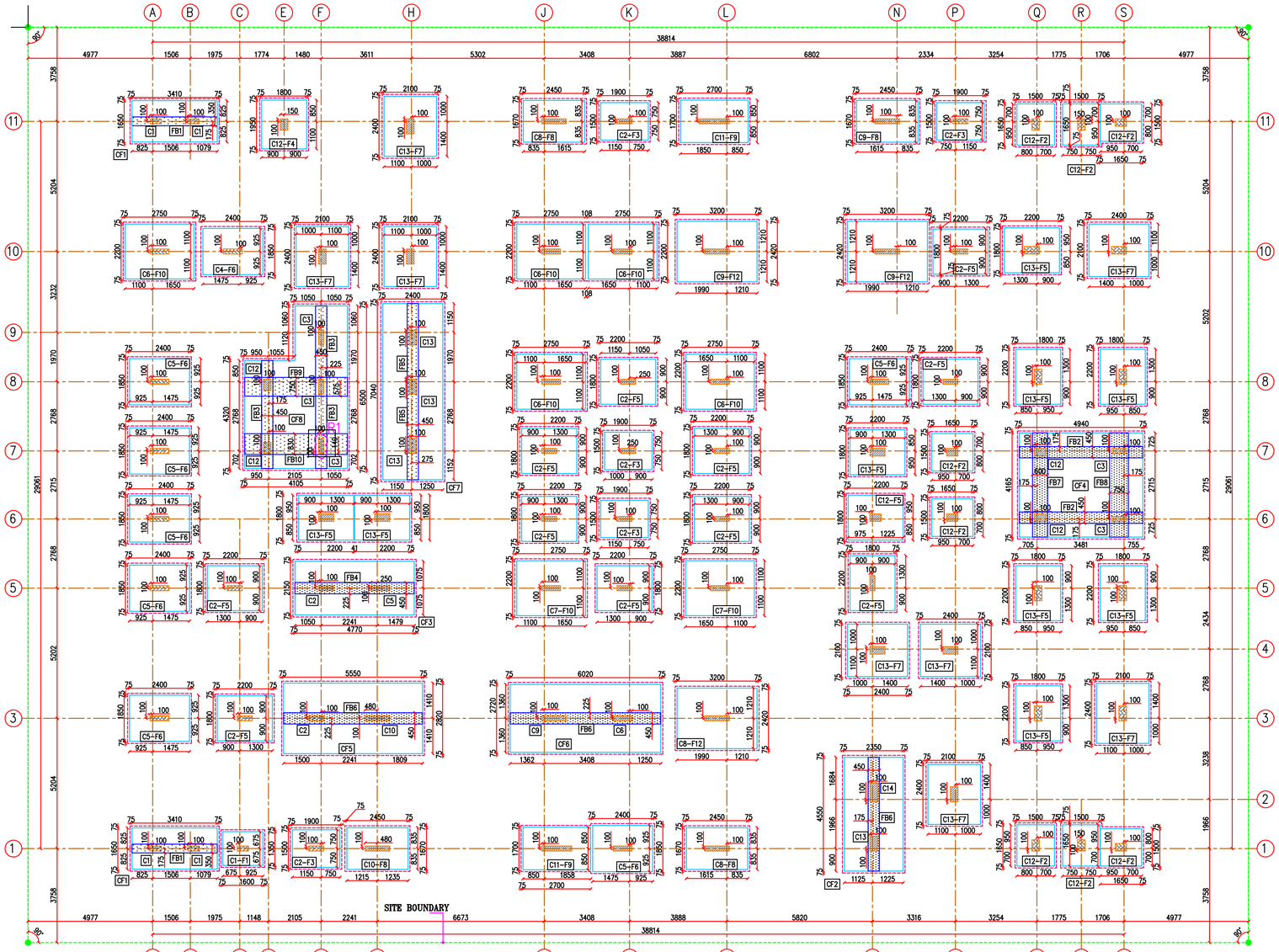
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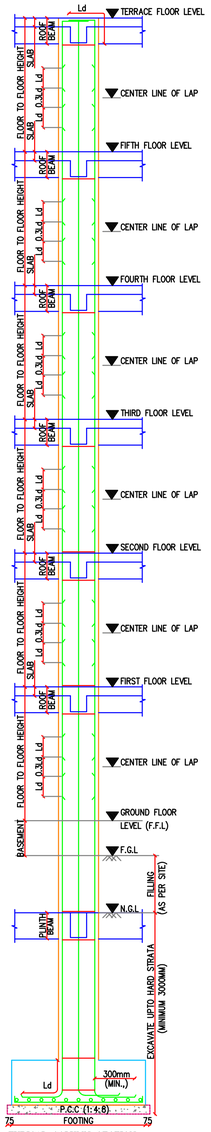
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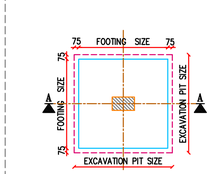
SBC IS CONSIDERED BASED ON SOIL INVESTIGATION REPORT (REF:- TIME/SO/SOIL TEST/SEPTEMBER 2025) ISSUED BY TIME INSTITUTE FOR MATERIALS TESTING, TRICHY, DATED:20.09.2025. IT IS THE RESPONSIBILITY OF THE CONTRACTOR/SITE ENGINEER/OWNER OF CONSTRUCTED BUILDING TO ENSURE THE SAME AT SITE BEFORE EXECUTION OF FOUNDATION. IT SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL ENGINEER IMMEDIATELY, IF THERE IS ANY DEVIATION IS OBSERVED AT SITE.



COLUMN, FOOTING LAYOUT

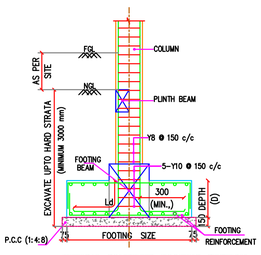


TYPICAL COLUMN SECTION
(N.T.S)

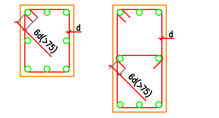


PLAN -TYPICAL FLAT FOOTING
(N.T.S)

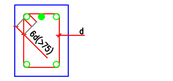
SECTION A-A
(N.T.S)



TYPICAL COMBINED FOOTING SECTION
(N.T.S)



TYPICAL COLUMN HOOK DETAILS



TYPICAL BEAM HOOK DETAILS

GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. FOR COLUMN THE GRADE OF CONCRETE SHALL BE OF M30(DESIGN MIX) AND ALL OTHER STRUCTURAL ELEMENTS SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 50mm FOR FOOTINGS & 40mm FOR COLUMNS AND 25mm FOR BEAMS.
6. S.B.C IS CONSIDERED AS 250kN/Sq.m @ 3000mm BELOW N.G.L & DESIGNED FOR G+5 FLOORS ONLY.
7. LAP LENGTH SHALL BE 50D(MAX DIA) FOR ALL BARS.
8. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
9. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
10. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
11. SUITABLE PRECAUTION SHOULD BE TAKEN CARE IN SITE TO AVOID EARTH SLIDING DURING EARTH WORK EXCAVATION AND EXECUTION OF FOOTING.
12. DURING EXCAVATION, IF ANY LOOSE POCKETS OF THE SOIL ENCOUNTERED,IT SHALL BE REMOVED & BACKFILLED WITH A LEVELLING COURSE OF CONCRETE THEN THE CONSTRUCTION OF FOUNDATION CAN BE CARRIED OUT.
13. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

LEGENDS

- FULL HEIGHT COLUMN
- COLUMN TERMINATES @ FIFTH FLOOR
- FOOTING BEAM

ABBREVIATIONS

N.G.L	– NATURAL GROUND LEVEL
F.G.L	– FORMED GROUND LEVEL
F.F.L	– FINISHED FLOOR LEVEL
N.T.S	– NOT TO SCALE
Ld	– DEVELOPMENT LENGTH
LVL	– LEVEL
CF	– COMBINED FOOTING
FB	– FOOTING BEAM

FOOTING BEAM DETAILS

S No	Beam No	Beam Size	Beam Reinforcement Details
1	FB1	350x750	6 – Y16 Y8 @ 150 c/c (4 legged) 2 – Y12 (SIDES)
			6 – Y16
2	FB2	450x600	8 – Y20 Y10 @ 150 c/c (4 legged)
			6 – Y16
3	FB3	450x680	8 – Y20 Y10 @ 150 c/c (4 legged)
			6 – Y16
4	FB4	450x750	8 – Y16 Y10 @ 125 c/c (4 legged) 2 – Y12 (SIDES)
			8 – Y20
5	FB5	450x830	8 – Y20 Y10 @ 150 c/c (4 legged) 2 – Y16 (SIDES)
			6 – Y16
6	FB6	450x900	8 – Y16 Y10 @ 125 c/c (4 legged) 4 – Y12 (SIDES)
			8 – Y20
7	FB7	600x600	8 – Y16 Y10 @ 150 c/c (4 legged)
			6 – Y16
8	FB8	750x600	10 – Y16 Y10 @ 150 c/c (4 legged)
			7 – Y16
9	FB9	750x680	10 – Y16 Y10 @ 150 c/c (4 legged) 2 – Y16 (SIDES)
			7 – Y16
10	FB10	830x680	8 – Y20 Y10 @ 125 c/c (4 legged) 2 – Y16 (SIDES)
			8 – Y20

FOOTING DETAILS

S No	Footing No	Footing Size	Excavation Pit Size	Footing Depth(D)	Footing Rft., Detail	
					Bottom Rft.,	Top Rft.,
1	F1	1600 x 1350	1750 x 1500	380	Y10 @ 125c/c Both Ways	–N.A–
2	F2	1650 x 1500	1800 x 1650	380	Y10 @ 125c/c Both Ways	–N.A–
3	F3	1900 x 1500	2050 x 1650	380	Y10 @ 100c/c Both Ways	–N.A–
4	F4	1950 x 1800	2100 x 1950	450	Y10 @ 100c/c Both Ways	–N.A–
5	F5	2200 x 1800	2350 x 1950	530	Y10 @ 100c/c Both Ways	–N.A–
6	F6	2400 x 1850	2550 x 2000	530	Y10 @ 100c/c Both Ways	–N.A–
7	F7	2400 x 2100	2550 x 2250	600	Y10 @ 100c/c Both Ways	Y10 @ 150c/c Both Ways
8	F8	2450 x 1670	2600 x 1820	530	Y10 @ 100c/c Both Ways	–N.A–
9	F9	2700 x 1700	2850 x 1850	530	Y10 @ 100c/c Both Ways	–N.A–
10	F10	2750 x 2200	2900 x 2350	680	Y12 @ 125c/c Both Ways	Y10 @ 150c/c Both Ways
11	F11	2800 x 2300	2950 x 2450	680	Y12 @ 125c/c Both Ways	Y10 @ 150c/c Both Ways
12	F12	3200 x 2420	3350 x 2570	680	Y12 @ 125c/c Both Ways	Y10 @ 150c/c Both Ways
13	CF1	3410 x 1650	3560 x 1800	600	Y10 @ 100c/c Both Ways	Y10 @ 125c/c Both Ways
14	CF2	4550 x 2350	4700 x 2500	750	Y12 @ 125c/c Both Ways	Y10 @ 125c/c Both Ways
15	CF3	4770 x 2150	4920 x 2300	600	Y10 @ 100c/c Both Ways	–N.A–
16	CF4	4940 x 4165	5090 x 4315	600	Y10 @ 100c/c Both Ways	Y10 @ 100c/c Both Ways
17	CF5	5550 x 2820	5700 x 2970	750	Y12 @ 125c/c Both Ways	Y10 @ 125c/c Both Ways
18	CF6	6020 x 2720	6170 x 2870	750	Y12 @ 125c/c Both Ways	Y10 @ 125c/c Both Ways
19	CF7	7040 x 2400	7190 x 2550	680	Y12 @ 125c/c Both Ways	Y10 @ 100c/c Both Ways
20	CF8	REFER LAYOUT	REFER LAYOUT	680	Y12 @ 100c/c Both Ways	Y10 @ 100c/c Both Ways

PAPER HOWARD - Approved

COLUMN DETAILS (CONT.,)

S No	Column No	Foundation To First Floor				From First To Second				From Second to Terrace			
		Column Size	Column Reinforcement Detail	Rings Detail (R–Ring)	Hooks Detail (H–Hook)	Column Size	Column Reinforcement Detail	Rings Detail (R–Ring)	Hooks Detail (H–Hook)	Column Size	Column Reinforcement Detail	Rings Detail (R–Ring)	Hooks Detail (H–Hook)
11	C11	200 x 1200	8 – Y20 + 12 – Y16 Y8 @ 150c/c	R–1 R–2 R–4 R–5 R–3	H–1 H–2	200 x 1200	8 – Y20 + 12 – Y16 Y8 @ 150c/c	R–1 R–2 R–4 R–5 R–3	H–1 H–2	200 x 750	12 – Y16 Y8 @ 150c/c	R–1 R–2 R–3	H–1 H–2
12	C12	300 x 450	12 – Y16 Y8 @ 150c/c	R–1	H–1 H–2	200 x 450	10 – Y16 Y8 @ 150c/c	R–1	H–1	200 x 450	6 – Y16 + 4 – Y12 Y8 @ 150c/c	R–1	H–1
13	C13	300 x 600	14 – Y16 Y8 @ 150c/c	R–1 R–3 R–2	H–1 H–3 H–2	200 x 600	12 – Y16 Y8 @ 150c/c	R–1 R–2 R–3	H–1 H–2	200 x 600	12 – Y16 Y8 @ 150c/c	R–1 R–2 R–3	H–1 H–2
14	C14	300 x 750	14 – Y16 Y8 @ 150c/c	R–1 R–3 R–2	H–1 H–3 H–2	200 x 750	12 – Y16 Y8 @ 150c/c	R–1 R–2 R–3	H–1 H–2	200 x 750	12 – Y16 Y8 @ 150c/c	R–1 R–2 R–3	H–1 H–2

COLUMN TERMINATION DETAILS

S No	Grid No		Termination Level
1	A–1	F–3	Fifth Floor (+15088mm) (Fourth Floor Roof)
	A–3	P–11	
	A–5	Q–1	
	A–6	Q–3	
	A–7	Q–5	
	A–8	Q–8	
	A–10	Q–10	
	A–11	Q–11	
	B–1	R–1	
	B–11	R–11	
	C–1	S–1	
	C–3	S–3	
	C–5	S–5	
	C–10	S–8	
	E–11	S–10	
	F–1	S–11	

COLUMN ROTATION DETAILS

S No	Grid No	Rotation Level/ Degree
1	C–10	From First Floor (+2896mm) / BY 90°

	Senior Architect	Head Architect	Project Head	Site Co-ordinator
Sign				
Date				

GOOD FOR CONSTRUCTION

REF	DESCRIPTION	BY	DATE
R1	GRID (F–7) COLUMN SIZE REVISED	MV	19.01.26

REVISIONS

CLIENT: Mamas Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Column, Footing Layout & Details (1-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
SS	MP	SKAR	SKAR	21.11.25	A1	1:100

DWG. NO:

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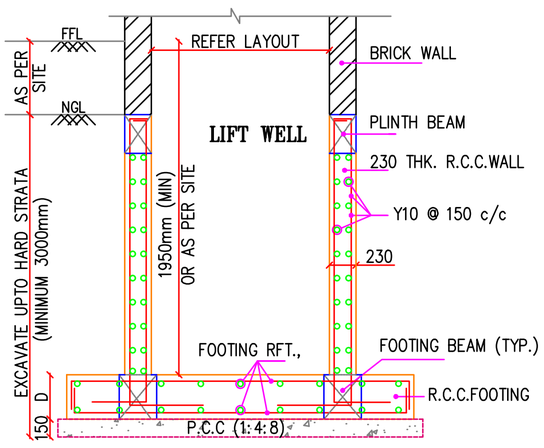
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COLUMN DETAILS

S No	Column No	Foundation To First Floor				From First To Second				From Second to Terrace			
		Column Size	Column Reinforcement Detail	Rings Detail (R–Ring)	Hooks Detail (H–Hook)	Column Size	Column Reinforcement Detail	Rings Detail (R–Ring)	Hooks Detail (H–Hook)	Column Size	Column Reinforcement Detail	Rings Detail (R–Ring)	Hooks Detail (H–Hook)
1	C1	200 x 450	10 – Y16 Y8 @ 150c/c	R-1	H-1	200 x 450	10 – Y16 Y8 @ 150c/c	R-1	H-1	200 x 450	10 – Y16 Y8 @ 150c/c	R-1	H-1
2	C2	200 x 600	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2	200 x 600	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2	200 x 450	6 – Y16 + 4 – Y12 ● Y8 @ 150c/c	R-1	H-1
3	C3	200 x 600	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2	200 x 600	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2	200 x 600	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2
4	C4	200 x 750	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2	200 x 600	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2	200 x 600	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2
5	C5	200 x 750	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2	200 x 750	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2	200 x 600	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2
6	C6	200 x 750	14 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2, H-3, H-4	200 x 750	14 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2, H-3, H-4	200 x 600	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2
7	C7	200 x 750	6 – Y20 + 8 – Y16 ● Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2, H-3, H-4	200 x 750	6 – Y20 + 8 – Y16 ● Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2, H-3, H-4	200 x 750	14 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2, H-3, H-4
8	C8	200 x 980	16 – Y16 Y8 @ 150c/c	R-1, R-2, R-3, R-4	H-1, H-2	200 x 980	16 – Y16 Y8 @ 150c/c	R-1, R-2, R-3, R-4	H-1, H-2	200 x 750	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2
9	C9	200 x 980	16 – Y20 Y8 @ 150c/c	R-1, R-2, R-3, R-4	H-1, H-2	200 x 980	16 – Y20 Y8 @ 150c/c	R-1, R-2, R-3, R-4	H-1, H-2	200 x 750	12 – Y16 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2
10	C10	200 x 980	16 – Y20 Y8 @ 150c/c	R-1, R-2, R-3, R-4	H-1, H-2	200 x 750	14 – Y20 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2, H-3, H-4	200 x 750	14 – Y20 Y8 @ 150c/c	R-1, R-2, R-3	H-1, H-2, H-3, H-4



TYPICAL LIFT WELL SECTION
(N.T.S)

	Senior Architect	Head Architect	Project Head	Site Co-odinator
Sign				
Date				

GOOD FOR CONSTRUCTION

REF.	DESCRIPTION	BY	DATE

REVISIONS

CLIENT:
Morais Architect X.

PROJECT:
Proposed 2&3 BHK Apartment.

TITLE:
Column, Footing Layout & Details (2-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	12.11.25	A2	1:100

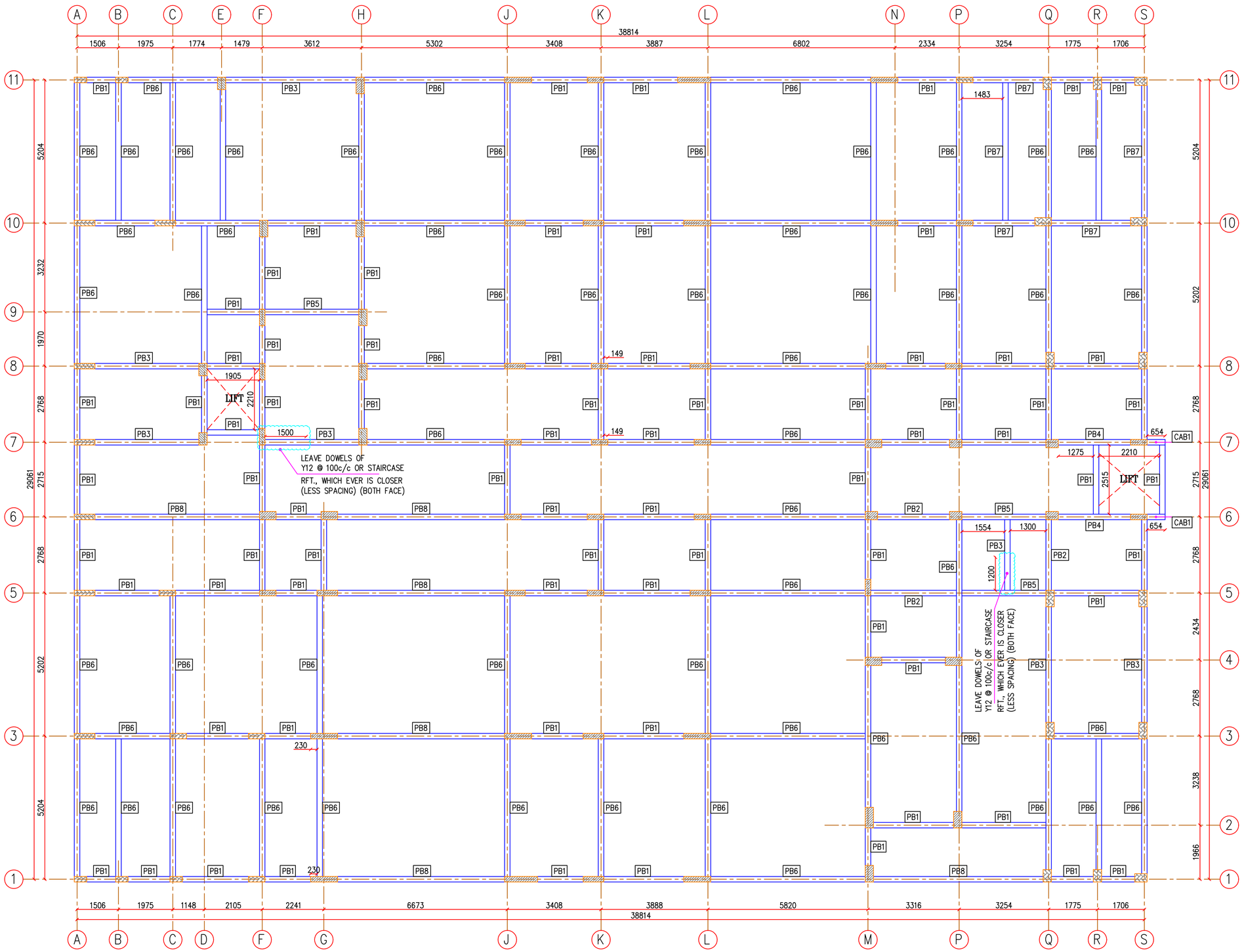
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PLINTH BEAM LAYOUT

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3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 25mm FOR PLINTH BEAM.
6. LAP LENGTH SHALL BE 50D(MAX DIA) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
9. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
10. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
11. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

LEGENDS

- FULL HEIGHT COLUMN
- COLUMN TERMINATES @ FIFTH FLOOR

ABBREVIATIONS

Ld	–	DEVELOPMENT LENGTH
PB	–	PLINTH BEAM
CAB	–	CANTILEVER BEAM
N.T.S	–	NOT TO SCALE

	Senior Architect	Head Architect	Project Head	Site Co-odinator
Sign				
Date				

GOOD FOR CONSTRUCTION

REF.	DESCRIPTION	BY	DATE
R1	GRID (F-7) COLUMN SIZE REVISED	MV	19.01.26

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Plinth Beam Layout and Details(1-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
BA	SP	SKAK	SKAK	12.11.25	A2	1:100

DWG. NO: MOST25-02-RC-LIST-R1

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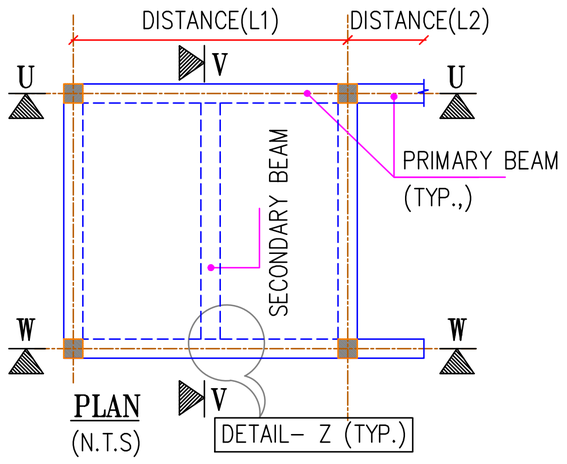
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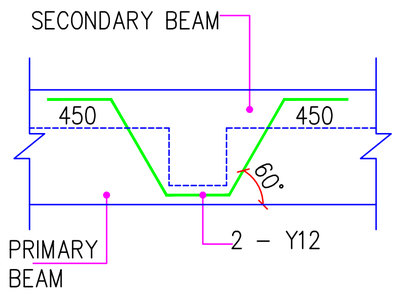
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PLINTH BEAM DETAILS

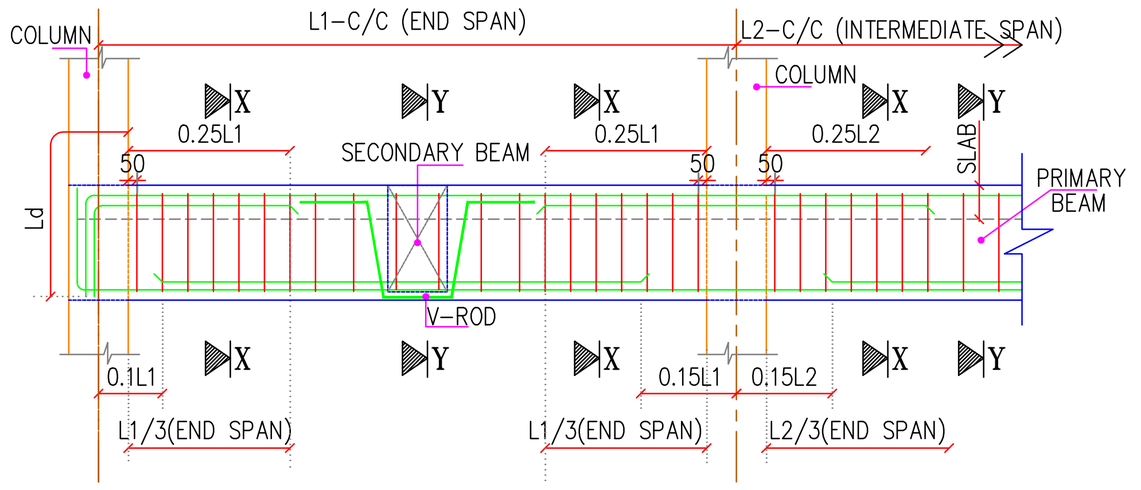
S No	Beam No	Beam Size	Section @ XX End span	Section @ YY Mid span
1	PB1	200x300	3 – Y12 Y8 @ 150c/c 3 – Y12	
2	PB2	200x300	2 – Y12 + 2 – Y12 (EXT) ● Y8 @ 150c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y12 (EXT) ●
3	PB3	200x380	3 – Y12 Y8 @ 150c/c 3 – Y12	
4	PB4/ CAB1	200x380	4 – Y12 Y8 @ 150c/c 4 – Y12	
5	PB5	200x380	2 – Y12 + 2 – Y12 (EXT) ● Y8 @ 150c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y12 (EXT) ●
6	PB6	200x450	3 – Y16 Y10 @ 150c/c 3 – Y16	
7	PB7	200x450	2 – Y16 + 2 – Y12 (EXT) ● Y10 @ 175c/c 2 – Y16	2 – Y16 Y10 @ 200c/c 2 – Y16 + 2 – Y12 (EXT) ●
8	PB8	200x530	4 – Y16 Y10 @ 150c/c 4 – Y16	



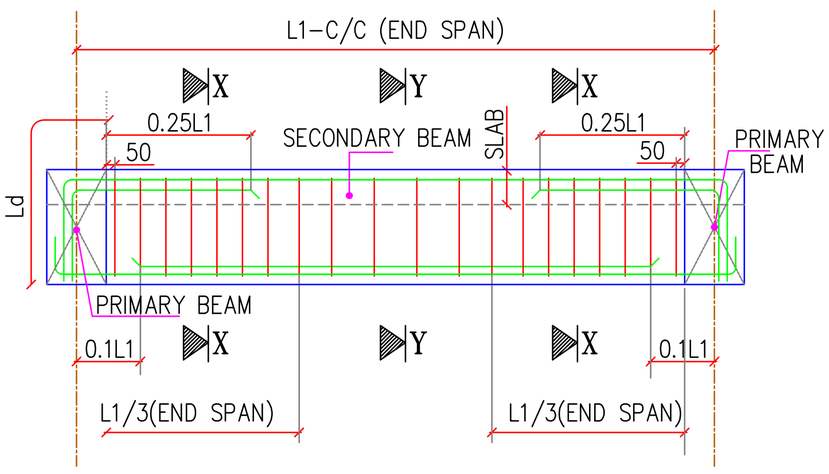
PLAN
(N.T.S)



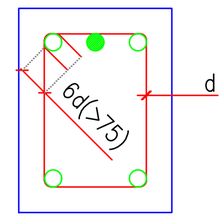
DETAIL – Z
(V-ROD DETAILS)
(N.T.S)



SECTION U–U
TYPICAL BEAM SECTION
(N.T.S)



SECTION V–V
TYPICAL BEAM SECTION
(N.T.S)



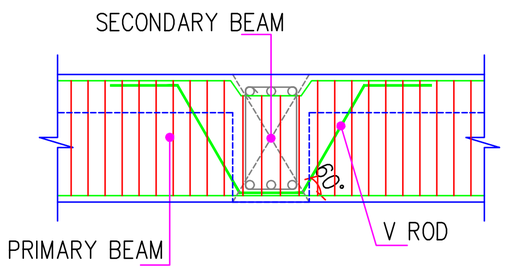
TYPICAL BEAM
HOOK DETAILS

COLUMN TERMINATION DETAILS

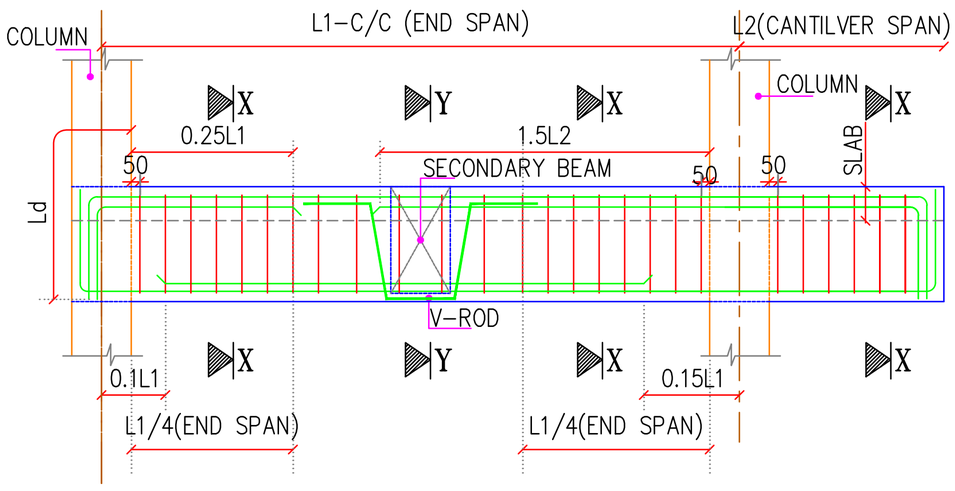
S No	Grid No		Termination Level
1	A–1 A–3 A–5 A–6 A–7 A–8 A–10 A–11 B–1 B–11 C–1 C–3 C–5 C–10 E–11 F–1	F–3 P–11 Q–1 Q–3 Q–5 Q–8 Q–10 Q–11 R–1 R–11 S–1 S–3 S–5 S–8 S–10 S–11	Fifth Floor (+15088mm) (Fourth Floor Roof)

COLUMN ROTATION DETAILS

S No	Grid No	Rotation Level/ Degree
1	C–10	From First Floor (+2896mm) / BY 90°



TYPICAL PRIMARY SECONDARY
BEAM JUNCTION DETAIL
(N.T.S)



SECTION W–W
TYPICAL CANTILEVER BEAM SECTION
(N.T.S)

GOOD FOR CONSTRUCTION

REF.	DESCRIPTION	BY	DATE
REVISIONS			

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Plinth Beam Layout and Details(2-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
BA	SP	SKAK	SKAK	12.11.25	A3	1:100

DWG. NO: MOS-25-02-RC-25-R0

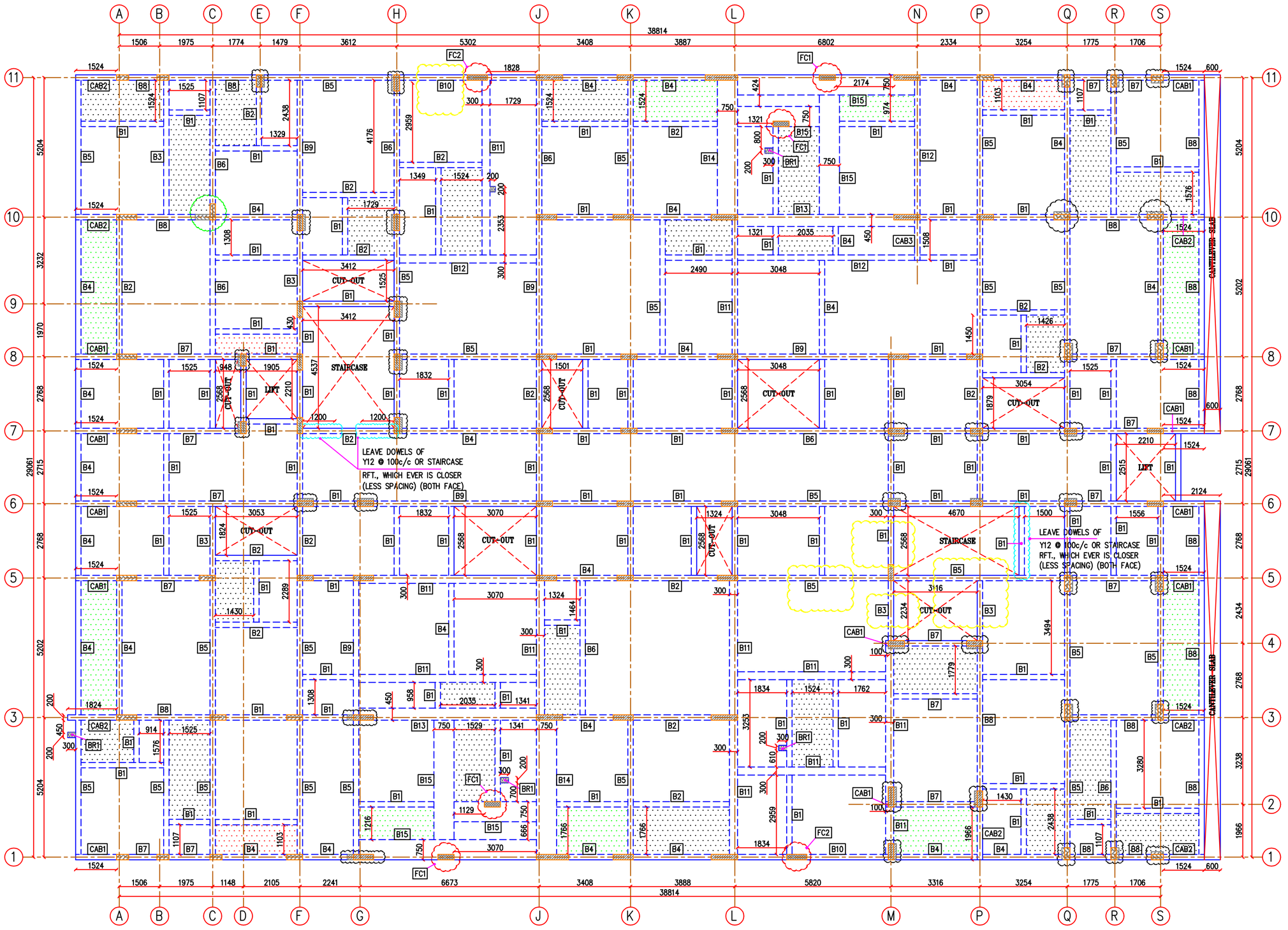
	Senior Architect	Head Architect	Project Head	Site Co-odinator
Sign				
Date				

STRUCTURAL CONSULTANT

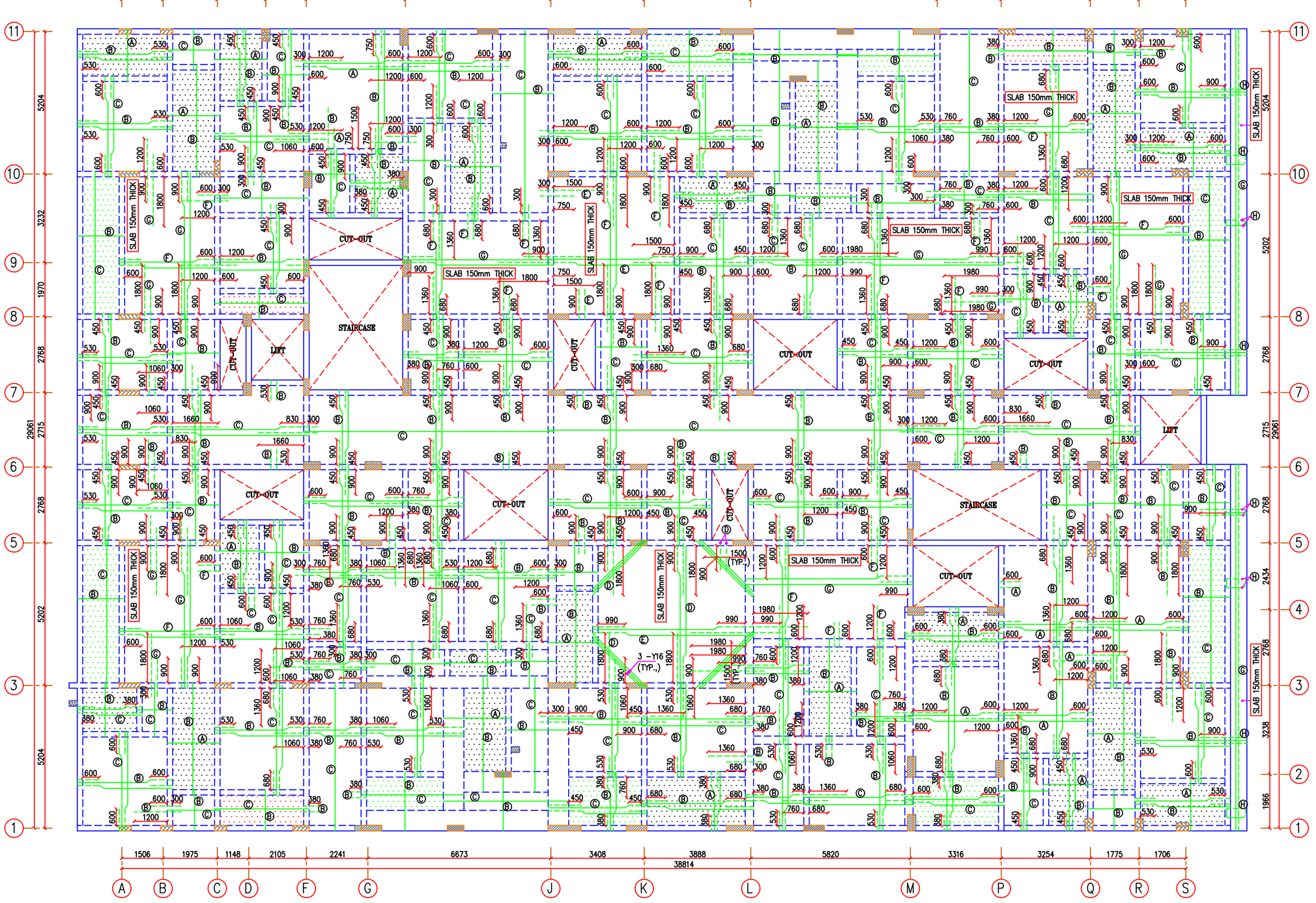
KAARVENS

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FIRST FLOOR BEAM LAYOUT



FIRST FLOOR SLAB LAYOUT

GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM & 40mm FOR COLUMN.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. MINIMUM DEPTH OF SUNKEN SHALL BE 250mm.
10. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
11. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
12. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
13. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

LEGENDS

- – FULL HEIGHT COLUMN
- – COLUMN TERMINATES @ FIFTH FLOOR
- – FLOATING COLUMN FROM FIRST FLOOR
- – 9" SUNKEN
- – 6" SUNKEN
- – 4" SUNKEN
- – BEAM BRACKET
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

ABBREVIATIONS

Ld	– DEVELOPMENT LENGTH
CAB	– CANTILEVER BEAM
BR	– BRACKET
FC	– FLOATING COLUMN
N.T.S	– NOT TO SCALE

ADVANCE COPY

REF.	DESCRIPTION	BY	DATE
R1	GRID (F-7) COLUMN SIZE REVISED	MV	19.01.26

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: First Floor Slab, Beam Layout & Details (1-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A1	1:100

DWG. NO:

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BEAM DETAILS

S No	Beam No	Beam Size	Section @ XX End span	Section @ YY Mid span
1	B1	200x380	3 – Y12 Y8 @ 150c/c 3 – Y12	
2	B2	200x380	2 – Y12 + 2 – Y16 (EXT) Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y16 (EXT)
3	B3	200x380	2 – Y16 + 2 – Y16 (EXT) Y8 @ 175c/c 2 – Y16	2 – Y16 Y8 @ 200c/c 2 – Y16 + 2 – Y16 (EXT)
4	B4	200x450	2 – Y12 + 2 – Y16 (EXT) Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y16 (EXT)
5	B5	200x450	2 – Y16 + 2 – Y16 (EXT) Y8 @ 125c/c 2 – Y16	2 – Y16 Y8 @ 150c/c 2 – Y16 + 2 – Y16 (EXT)
6	B6	200x450	2 – Y16 + 2 – Y20 (EXT) Y8 @ 125c/c 2 – Y16	2 – Y16 Y8 @ 150c/c 2 – Y16 + 2 – Y20 (EXT)
7	B7/ CAB1	200x450	4 – Y16 Y8 @ 150c/c 3 – Y16	
8	B8/ CAB2	200x450	4 – Y20 Y8 @ 150c/c 3 – Y20	
9	B9	200x450	2 – Y20 + 2 – Y20 (EXT) Y8 @ 125c/c 2 – Y20	2 – Y20 Y8 @ 150c/c 2 – Y20 + 2 – Y20 (EXT)
10	B10	200x900	6 – Y25 4 – Y16 (SIDES) Y10 @ 100c/c 6 – Y25	
11	B11	300x450	3 – Y20 + 3 – Y20 (EXT) Y8 @ 150c/c 3 – Y20	3 – Y20 Y8 @ 175c/c 3 – Y20 + 3 – Y20 (EXT)
12	B12/ CAB3	300x450	4 – Y20 + 2 – Y16 Y8 @ 150c/c 3 – Y16	

BEAM DETAILS (CONT.,)

S No	Beam No	Beam Size	Section @ XX End span	Section @ YY Mid span
13	B13	450x450	4 – Y20 + 4 – Y20 (EXT) Y10 @ 150c/c (4–Legged) 2 – Y12 (SIDES) 4 – Y20	4 – Y20 Y10 @ 175c/c (4–Legged) 2 – Y12 (SIDES) 4 – Y20 + 4 – Y20 (EXT)
14	B14	750x450	6 – Y20 + 6 – Y20 (EXT) Y10 @ 125c/c (4–Legged) 2 – Y16 (SIDES) 6 – Y20	6 – Y20 Y10 @ 150c/c (4–Legged) 2 – Y16 (SIDES) 6 – Y20 + 6 – Y20 (EXT)
15	B15	750x450	6 – Y25 + 6 – Y25 (EXT) Y10 @ 125c/c (4–Legged) 2 – Y16 (SIDES) 6 – Y25	6 – Y25 Y10 @ 150c/c (4–Legged) 2 – Y16 (SIDES) 6 – Y25 + 6 – Y25 (EXT)

FLOATING COLUMN DETAILS

S No	Column No	Column Size	Column Reinforcement Detail	Rings Detail (R–Ring)	Hooks Detail (H–Hook)	V–Rod Detail
1	FC1	200 x 600	10 – Y16 Y8 @ 150c/c	R–1, R–2, R–3	H–1	2 –Y16
2	FC2	200 x 750	14 – Y16 Y8 @ 150c/c	R–1, R–2, R–3	H–1, H–2, H–3, H–4	2 –Y16

COLUMN TERMINATION DETAILS

S No	Grid No		Termination Level
1	A–1 A–3 A–5 A–6 A–7 A–8 A–10 A–11 B–1 B–11 C–1 C–3 C–5 C–10 E–11 F–1	F–3 P–11 Q–1 Q–3 Q–5 Q–8 Q–10 Q–11 R–1 R–11 S–1 S–3 S–5 S–8 S–10 S–11	Fifth Floor (Fourth Floor Roof)

COLUMN ROTATION DETAILS

S No	Grid No	Rotation Level/ Degree
1	C–10	From First Floor / BY 90°

PRE CAMBERS FOR BEAMS

PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

ABBREVIATIONS

Ld	– DEVELOPMENT LENGTH
CAB	– CANTILEVER BEAM
BR	– BRACKET
FC	– FLOATING COLUMN
N.T.S	– NOT TO SCALE

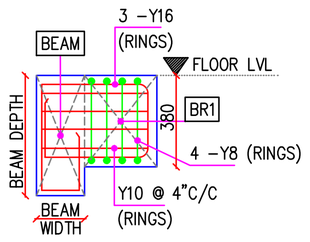
SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

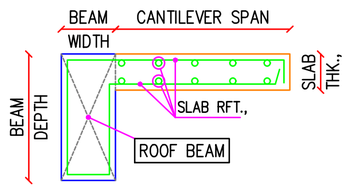
A	Y8	@	150 C/C
B	Y8	@	175 C/C
C	Y8	@	200 C/C
D	Y10	@	125 C/C
E	Y10	@	150 C/C
F	Y10	@	175 C/C
G	Y10	@	200 C/C
H	Y10	@	100 C/C

LIVE LOAD SCHEDULE

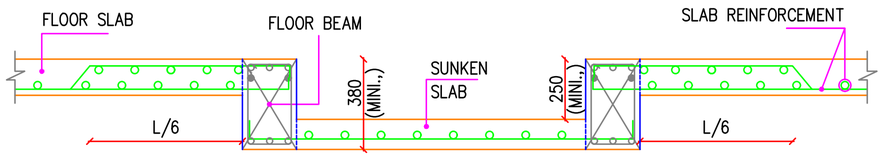
DESCRIPTION	LIVE LOAD (kN/m²)
FIRST FLOOR	2



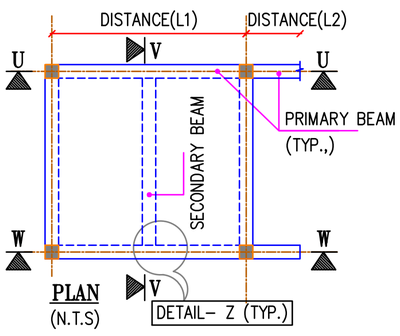
TYPICAL BRACKET DETAIL (BR1)
(SCALE 1:25)



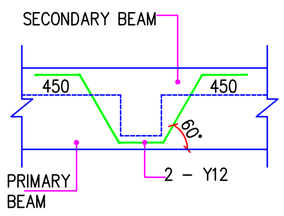
TYPICAL CANTILEVER SLAB SECTION
(N.T.S)



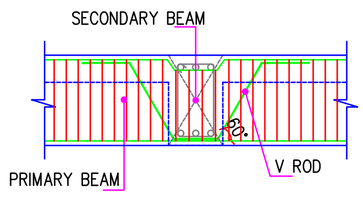
TYPICAL SUNKEN SLAB SECTION
(N.T.S)



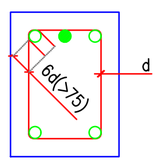
PLAN
(N.T.S)



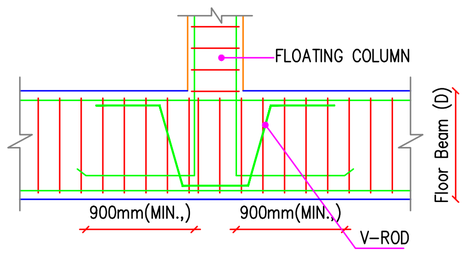
DETAIL – Z
(V–ROD DETAILS)
(N.T.S)



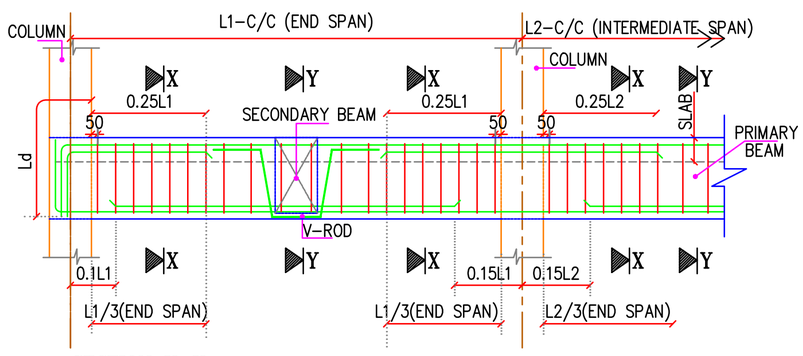
TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)



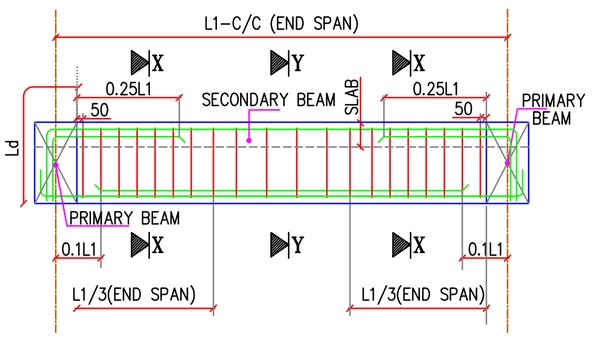
TYPICAL BEAM HOOK DETAILS



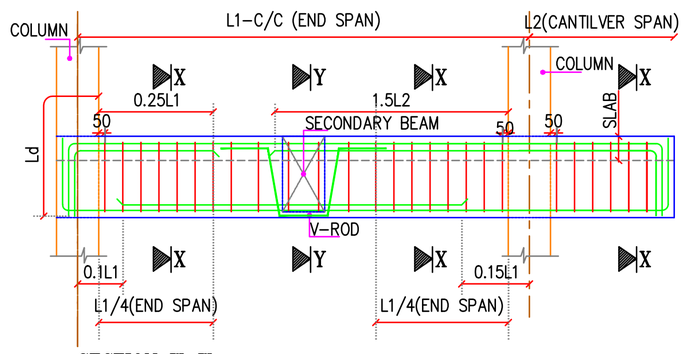
TYPICAL FLOATING COLUMN SECTION @ CENTER
(N.T.S)



SECTION U–U
TYPICAL BEAM SECTION
(N.T.S)



SECTION V–V
TYPICAL BEAM SECTION
(N.T.S)



SECTION W–W
TYPICAL CANTILEVER BEAM SECTION
(N.T.S)

NOTE

* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.

ADVANCE COPY

REF.	DESCRIPTION	BY	DATE

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: First Floor Slab, Beam Layout & Details (1-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A2	1:100

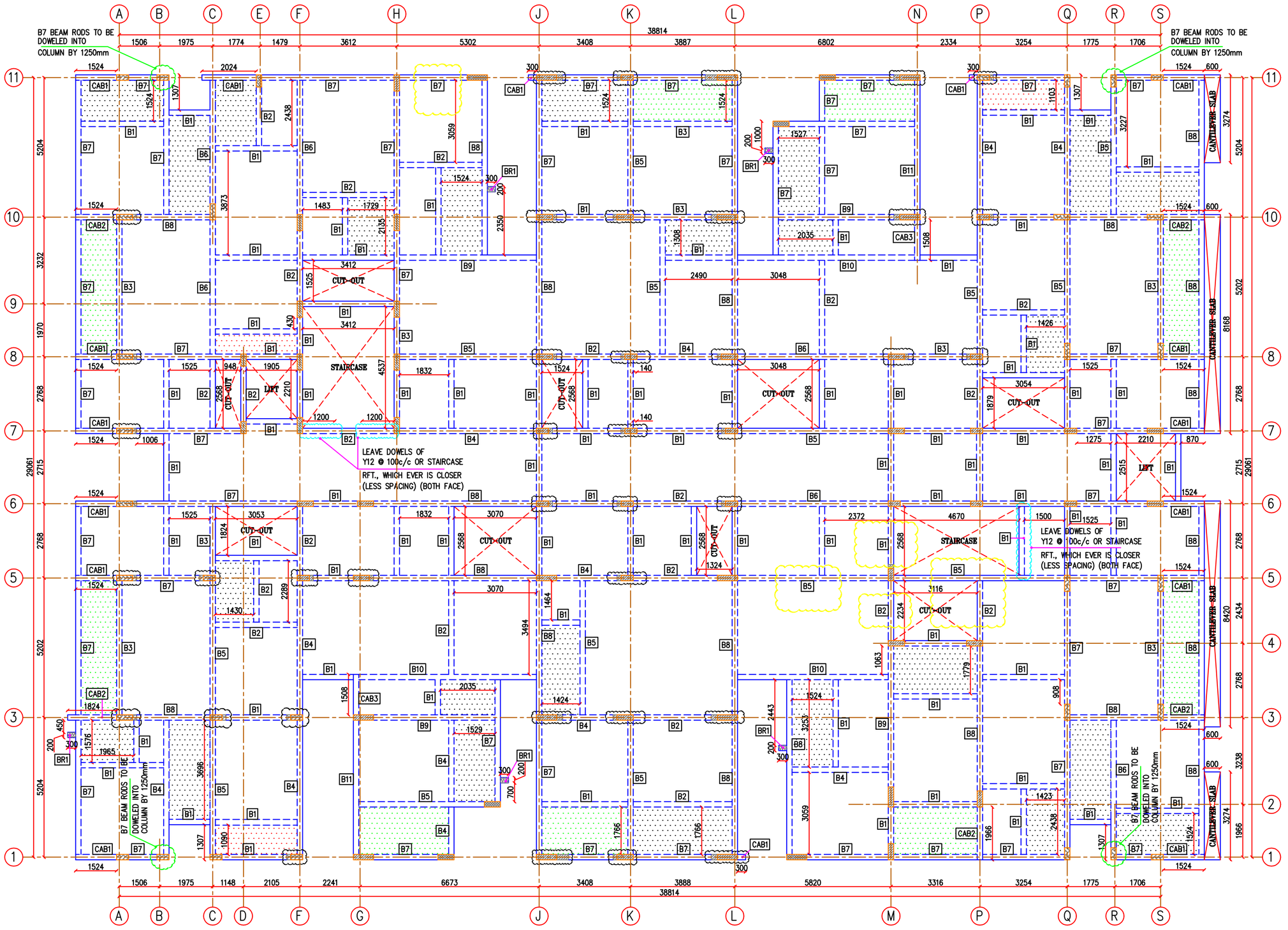
DWG. NO: MOS-25-02-RC-17-R0

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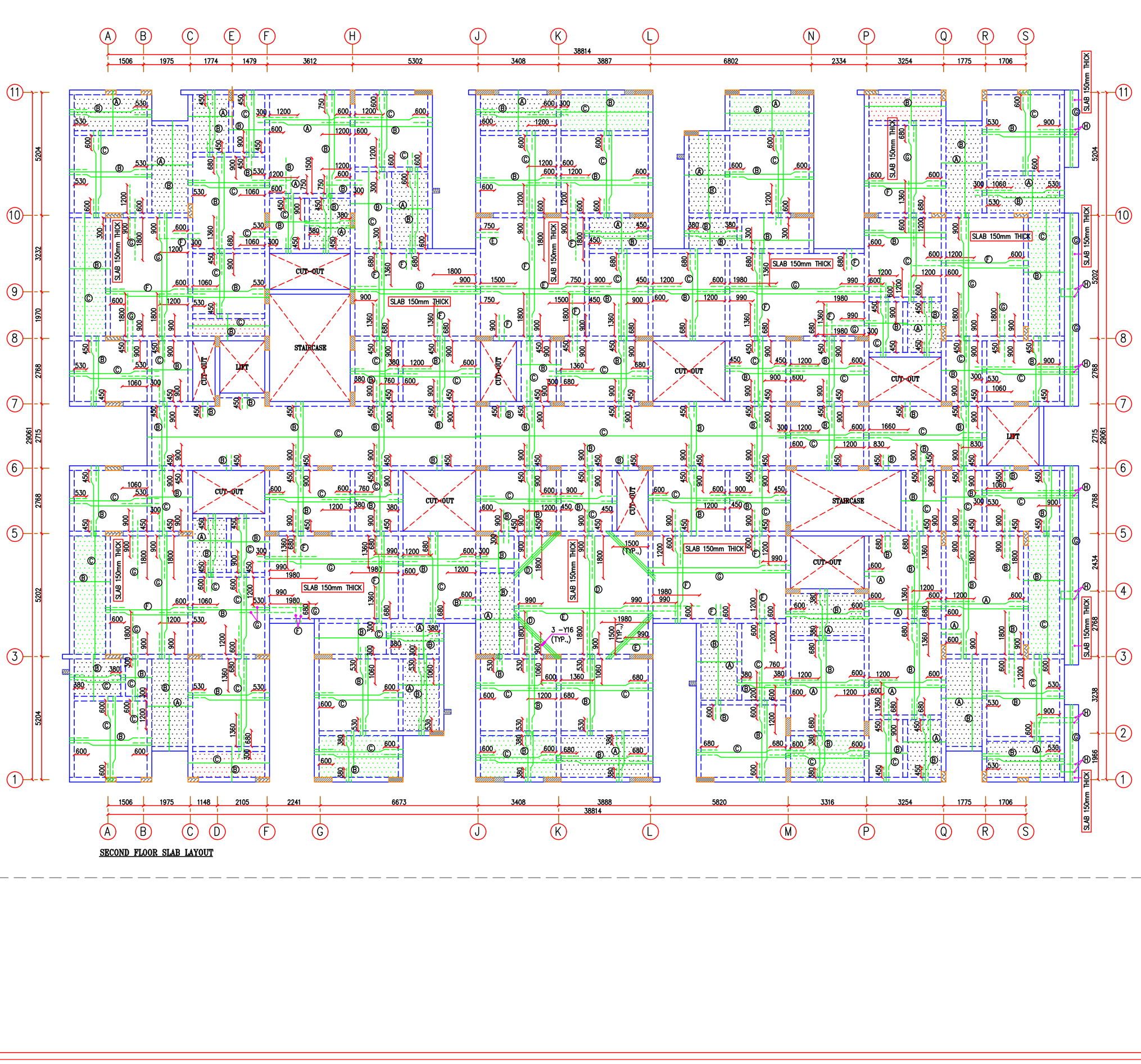
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SECOND FLOOR BEAM LAYOUT



SECOND FLOOR SLAB LAYOUT

GENERAL NOTES

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5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
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LEGENDS

- – FULL HEIGHT COLUMN
- – COLUMN TERMINATES @ FIFTH FLOOR
- – FLOATING COLUMN FROM FIRST FLOOR
- – 9" SUNKEN
- – 6" SUNKEN
- – 4" SUNKEN
- – BEAM BRACKET
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

ABBREVIATIONS

Ld	– DEVELOPMENT LENGTH
CAB	– CANTILEVER BEAM
BR	– BRACKET
N.T.S	– NOT TO SCALE

ADVANCE COPY

REF.	DESCRIPTION	BY	DATE
R1	GRID (F-7) COLUMN SIZE REVISED	MV	19.01.26

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Second Floor Slab, Beam Layout & Details (1-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A1	1:100

DWG. NO:

STRUCTURAL CONSULTANT

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BEAM DETAILS

S No	Beam No	Beam Size	Section @ XX End span	Section @ YY Mid span
1	B1	200x380		3 – Y12 Y8 @ 150c/c 3 – Y12
2	B2	200x380	2 – Y12 + 2 – Y16 (EXT) Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y16 (EXT)
3	B3	200x450	2 – Y12 + 2 – Y12 (EXT) Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y12 (EXT)
4	B4	200x450	2 – Y12 + 2 – Y16 (EXT) Y8 @ 150c/c 2 – Y12	2 – Y12 Y8 @ 175c/c 2 – Y12 + 2 – Y16 (EXT)
5	B5	200x450	2 – Y16 + 2 – Y16 (EXT) Y8 @ 150c/c 2 – Y16	2 – Y16 Y8 @ 175c/c 2 – Y16 + 2 – Y16 (EXT)
6	B6	200x530	2 – Y16 + 2 – Y16 (EXT) Y8 @ 150c/c 2 – Y16	2 – Y16 Y8 @ 175c/c 2 – Y16 + 2 – Y16 (EXT)
7	B7/ CAB1	200x600		3 – Y16 Y8 @ 175c/c 3 – Y16
8	B8/ CAB2	200x600		4 – Y16 Y8 @ 150c/c 4 – Y16
9	B9	200x600	2 – Y16 + 3 – Y16 (EXT) Y8 @ 125c/c 2 – Y16	2 – Y16 Y8 @ 150c/c 2 – Y16 + 3 – Y16 (EXT)
10	B10	200x600	2 – Y20 + 2 – Y20 (EXT) + 2 – Y16 (EXT) Y8 @ 125c/c 2 – Y20	2 – Y20 Y8 @ 125c/c 2 – Y20 + 2 – Y20 (EXT) + 2 – Y16 (EXT)
11	B11/ CAB3	200x600		6 – Y16 Y8 @ 125c/c 3 – Y16

SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

A	Y8	@ 150 C/C
B	Y8	@ 175 C/C
C	Y8	@ 200 C/C
D	Y10	@ 125 C/C
E	Y10	@ 150 C/C
F	Y10	@ 175 C/C
G	Y10	@ 200 C/C
H	Y10	@ 100 C/C

LIVE LOAD SCHEDULE

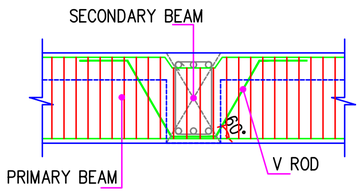
DESCRIPTION	LIVE LOAD (kN/m²)
SECOND FLOOR	2

PRE CAMBERS FOR BEAMS

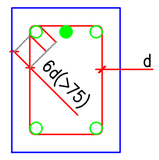
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

COLUMN TERMINATION DETAILS

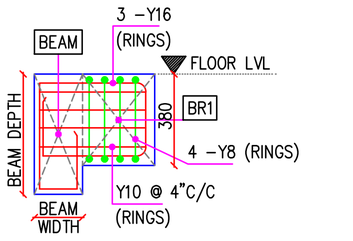
S No	Grid No		Termination Level
1	A–1 A–3 A–5 A–6 A–7 A–8 A–10 A–11 B–1 B–11 C–1 C–3 C–5 C–10 E–11 F–1	F–3 P–11 Q–1 Q–3 Q–5 Q–8 Q–10 Q–11 R–1 R–11 S–1 S–3 S–5 S–8 S–10 S–11	Fifth Floor (Fourth Floor Roof)



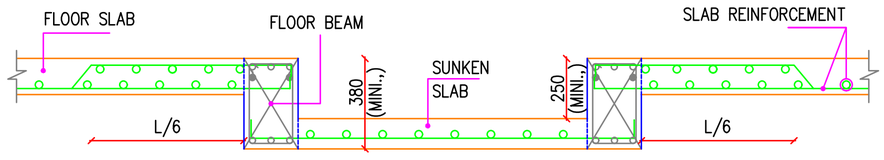
TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)



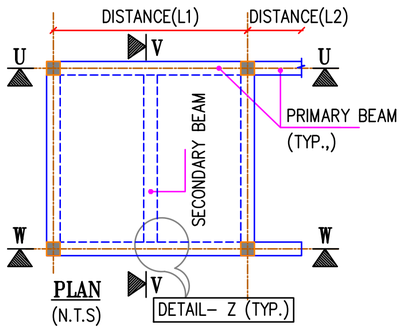
TYPICAL BEAM HOOK DETAILS



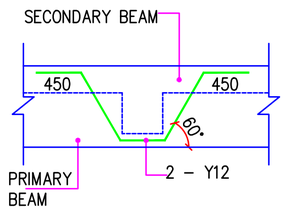
TYPICAL BRACKET DETAIL (BR1)
(SCALE 1:25)



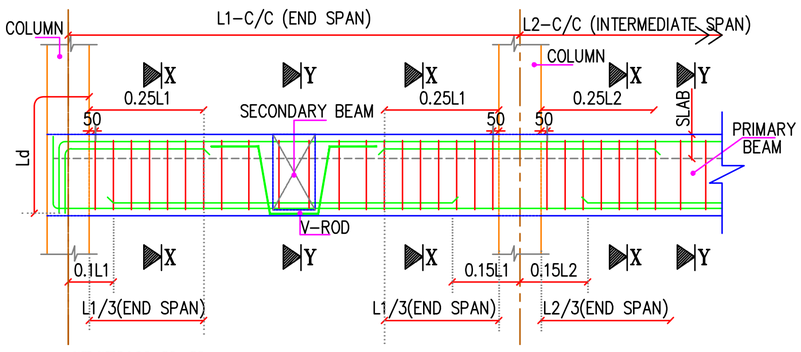
TYPICAL SUNKEN SLAB SECTION
(N.T.S)



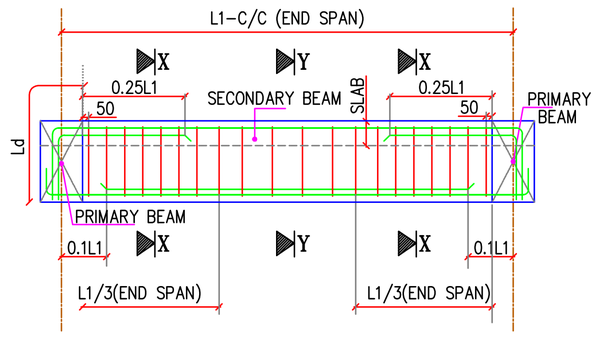
PLAN
(N.T.S)



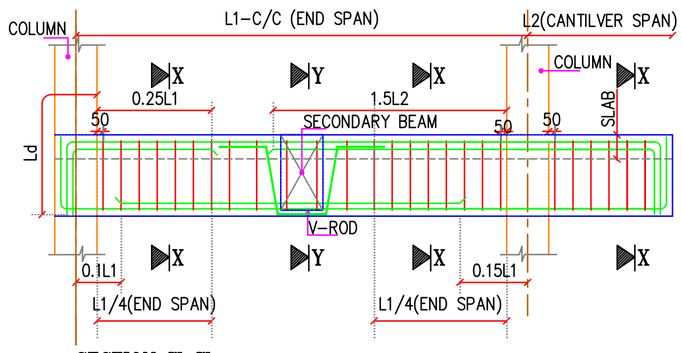
DETAIL – Z
(V-ROD DETAILS)
(N.T.S)



SECTION U–U
TYPICAL BEAM SECTION
(N.T.S)



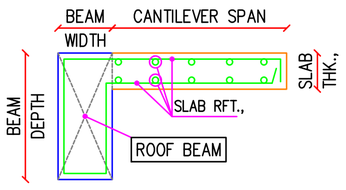
SECTION V–V
TYPICAL BEAM SECTION
(N.T.S)



SECTION W–W
TYPICAL CANTILEVER BEAM SECTION
(N.T.S)

ABBREVIATIONS

Ld	– DEVELOPMENT LENGTH
CAB	– CANTILEVER BEAM
BR	– BRACKET
FC	– FLOATING COLUMN
N.T.S	– NOT TO SCALE



TYPICAL CANTILEVER SLAB SECTION
(N.T.S)

NOTE

* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.

ADVANCE COPY

REF.	DESCRIPTION	BY	DATE
REVISIONS			

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Second Floor Slab, Beam Layout & Details (2-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A2	1:100

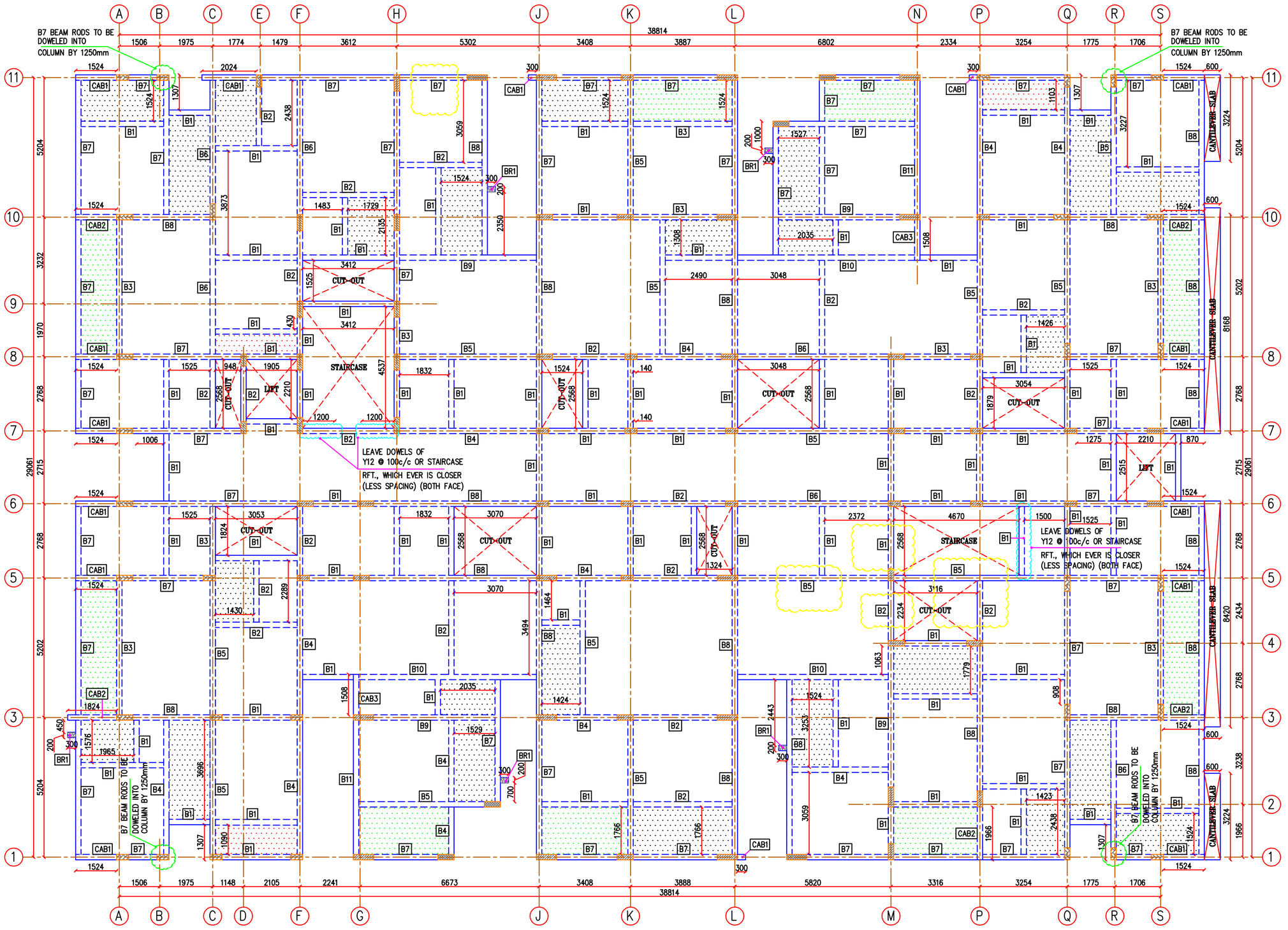
DWG. NO: MOS-25-02-RC-19-R0

STRUCTURAL CONSULTANT

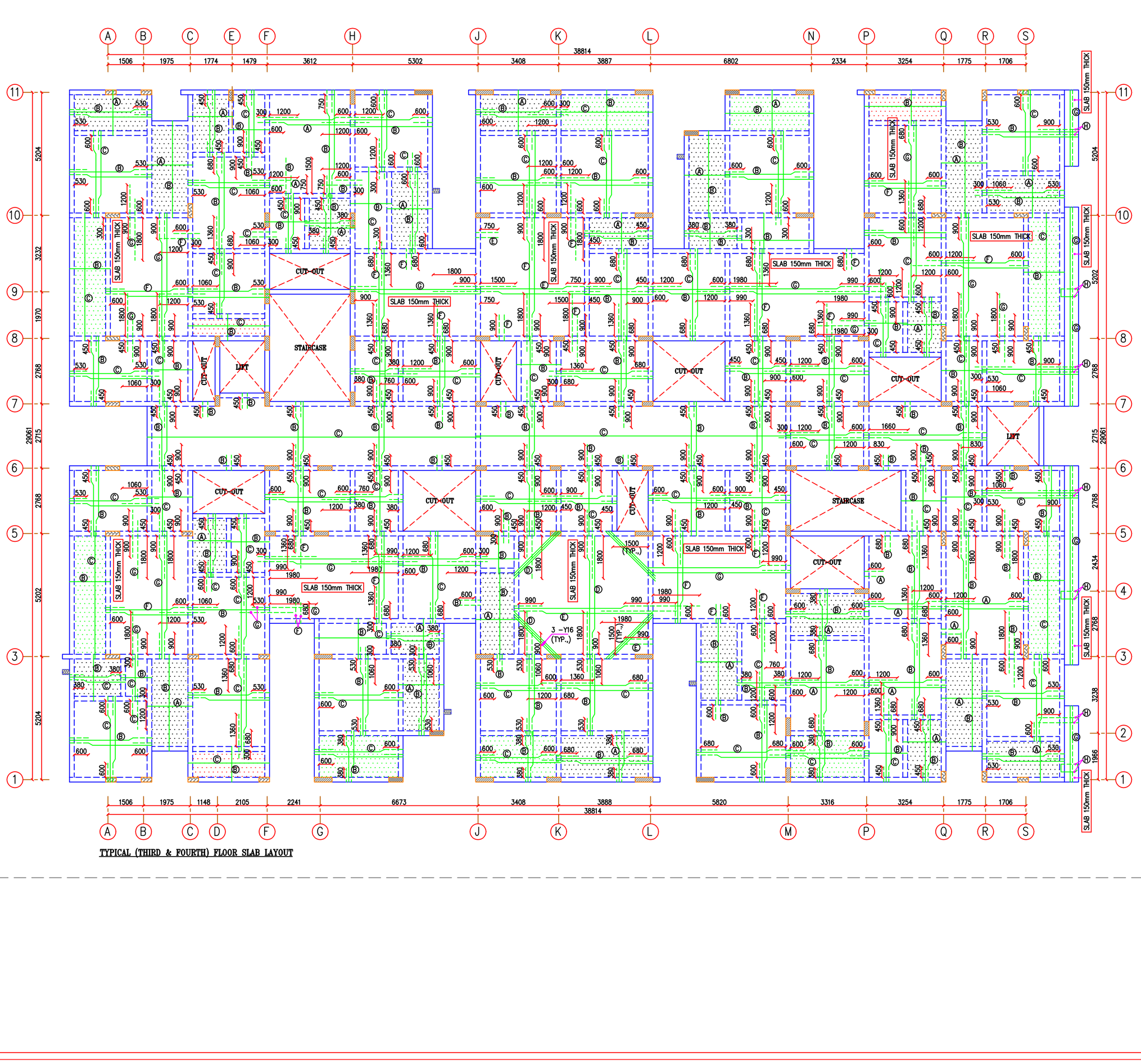
KAARVENS

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TYPICAL (THIRD & FOURTH) FLOOR BEAM LAYOUT



TYPICAL (THIRD & FOURTH) FLOOR SLAB LAYOUT

GENERAL NOTES

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2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. MINIMUM DEPTH OF SUNKEN SHALL BE 250mm.
10. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
11. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
12. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
13. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

LEGENDS

- – FULL HEIGHT COLUMN
- – COLUMN TERMINATES @ FIFTH FLOOR
- – FLOATING COLUMN FROM FIRST FLOOR
- – 9" SUNKEN
- – 6" SUNKEN
- – 4" SUNKEN
- – BEAM BRACKET
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

ABBREVIATIONS

Ld	– DEVELOPMENT LENGTH
CAB	– CANTILEVER BEAM
BR	– BRACKET
N.T.S	– NOT TO SCALE

ADVANCE COPY

REF.	DESCRIPTION	BY	DATE
R1	GRID (F-7) COLUMN SIZE REVISED	MV	19.01.26

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Typical (Third & Fourth) Floor Slab, Beam Layout & Details (1-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A1	1:100

DWG. NO:

STRUCTURAL CONSULTANT

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BEAM DETAILS

S No	Beam No	Beam Size	Section @ XX End span	Section @ YY Mid span
1	B1	200x380	3 – Y12 Y8 @ 150c/c 3 – Y12	
2	B2	200x380	2 – Y12 + 2 – Y16 (EXT) Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y16 (EXT)
3	B3	200x450	2 – Y12 + 2 – Y12 (EXT) Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y12 (EXT)
4	B4	200x450	2 – Y12 + 2 – Y16 (EXT) Y8 @ 150c/c 2 – Y12	2 – Y12 Y8 @ 175c/c 2 – Y12 + 2 – Y16 (EXT)
5	B5	200x450	2 – Y16 + 2 – Y16 (EXT) Y8 @ 150c/c 2 – Y16	2 – Y16 Y8 @ 175c/c 2 – Y16 + 2 – Y16 (EXT)
6	B6	200x530	2 – Y16 + 2 – Y16 (EXT) Y8 @ 150c/c 2 – Y16	2 – Y16 Y8 @ 175c/c 2 – Y16 + 2 – Y16 (EXT)
7	B7/ CAB1	200x600	3 – Y16 Y8 @ 175c/c 3 – Y16	
8	B8/ CAB2	200x600	4 – Y16 Y8 @ 150c/c 4 – Y16	
9	B9	200x600	2 – Y16 + 3 – Y16 (EXT) Y8 @ 125c/c 2 – Y16	2 – Y16 Y8 @ 150c/c 2 – Y16 + 3 – Y16 (EXT)
10	B10	200x600	2 – Y20 + 2 – Y20 (EXT) + 2 – Y16 (EXT) Y8 @ 125c/c 2 – Y20	2 – Y20 Y8 @ 125c/c 2 – Y20 + 2 – Y20 (EXT) + 2 – Y16 (EXT)
11	B11/ CAB3	200x600	6 – Y16 Y8 @ 125c/c 3 – Y16	

SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

A	Y8	@ 150 C/C
B	Y8	@ 175 C/C
C	Y8	@ 200 C/C
D	Y10	@ 125 C/C
E	Y10	@ 150 C/C
F	Y10	@ 175 C/C
G	Y10	@ 200 C/C
H	Y10	@ 100 C/C

LIVE LOAD SCHEDULE

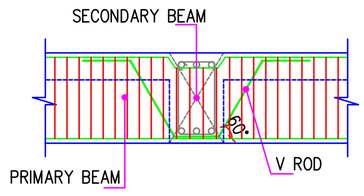
DESCRIPTION	LIVE LOAD (kN/m²)
THIRD & FOURTH FLOOR	2

PRE CAMBERS FOR BEAMS

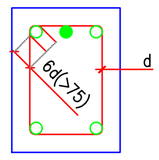
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

COLUMN TERMINATION DETAILS

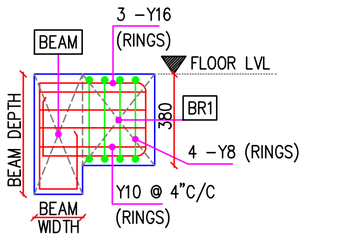
S No	Grid No		Termination Level
1	A–1 A–3 A–5 A–6 A–7 A–8 A–10 A–11 B–1 B–11 C–1 C–3 C–5 C–10 E–11 F–1	F–3 P–11 Q–1 Q–3 Q–5 Q–8 Q–10 Q–11 R–1 R–11 S–1 S–3 S–5 S–8 S–10 S–11	Fifth Floor (Fourth Floor Roof)



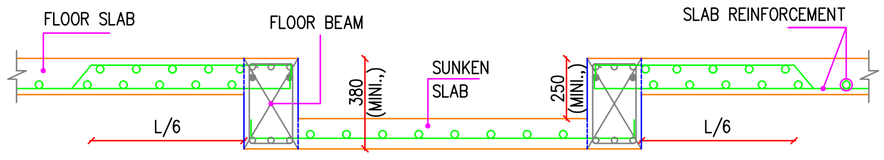
TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)



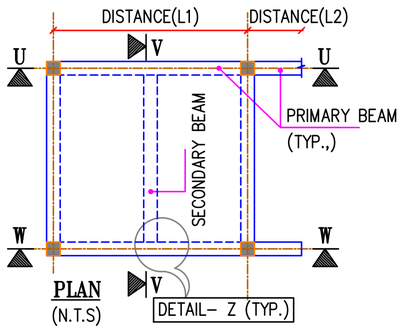
TYPICAL BEAM HOOK DETAILS



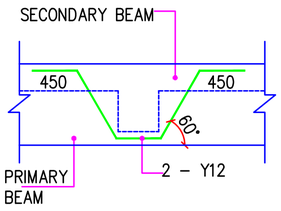
TYPICAL BRACKET DETAIL (BR1)
(SCALE 1:25)



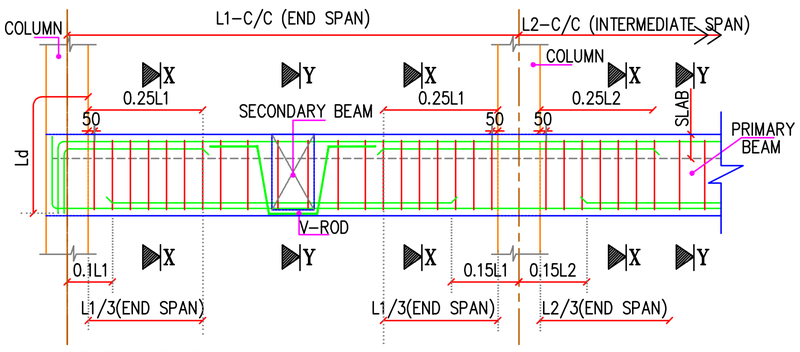
TYPICAL SUNKEN SLAB SECTION
(N.T.S)



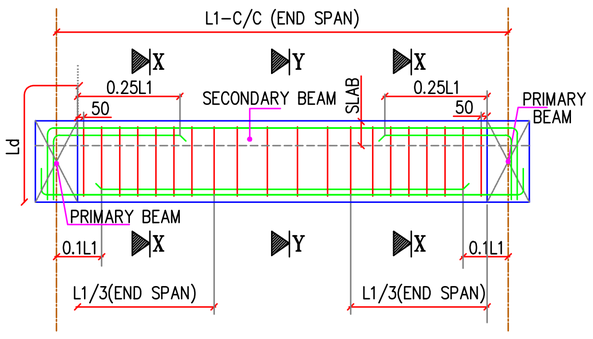
PLAN
(N.T.S)



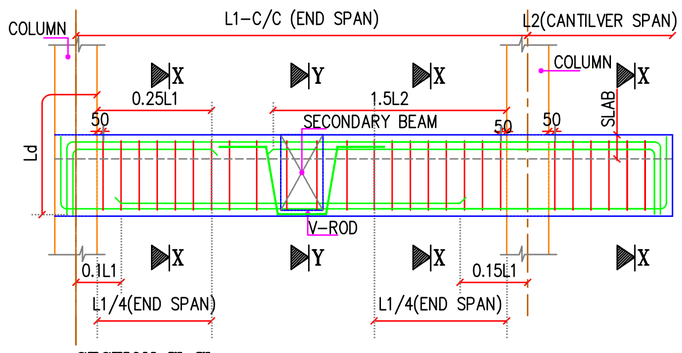
DETAIL – Z
(V-ROD DETAILS)
(N.T.S)



SECTION U–U
TYPICAL BEAM SECTION
(N.T.S)



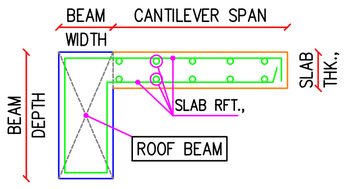
SECTION V–V
TYPICAL BEAM SECTION
(N.T.S)



SECTION W–W
TYPICAL CANTILEVER BEAM SECTION
(N.T.S)

ABBREVIATIONS

Ld	– DEVELOPMENT LENGTH
CAB	– CANTILEVER BEAM
BR	– BRACKET
FC	– FLOATING COLUMN
N.T.S	– NOT TO SCALE



TYPICAL CANTILEVER SLAB SECTION
(N.T.S)

NOTE

* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.

ADVANCE COPY

REF.	DESCRIPTION	BY	DATE
REVISIONS			

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Typical (Third & Fourth) Floor Slab, Beam Layout & Details (2-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A2	1:100

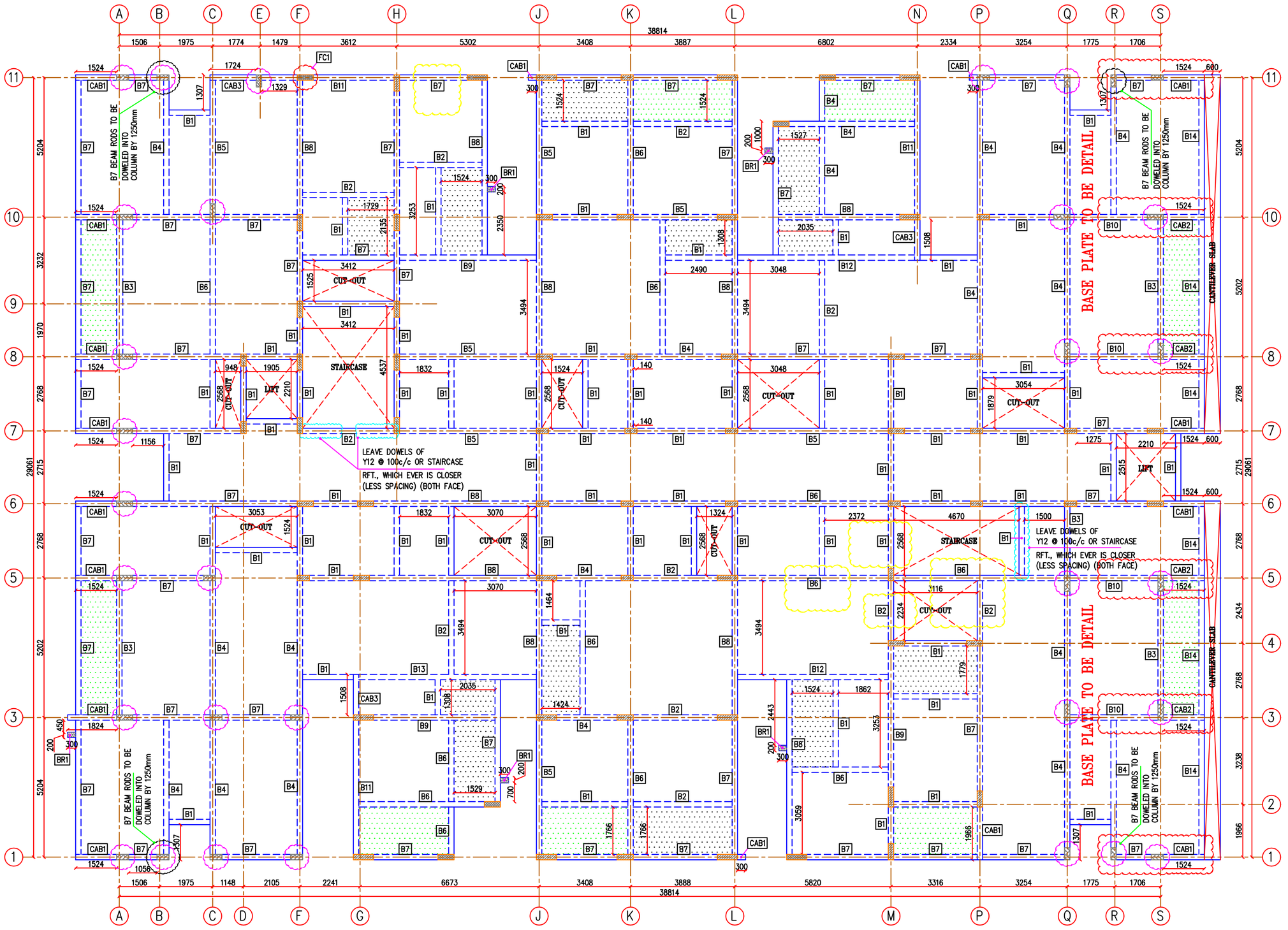
DWG. NO: MOS-25-02-RC-21-R0

STRUCTURAL CONSULTANT

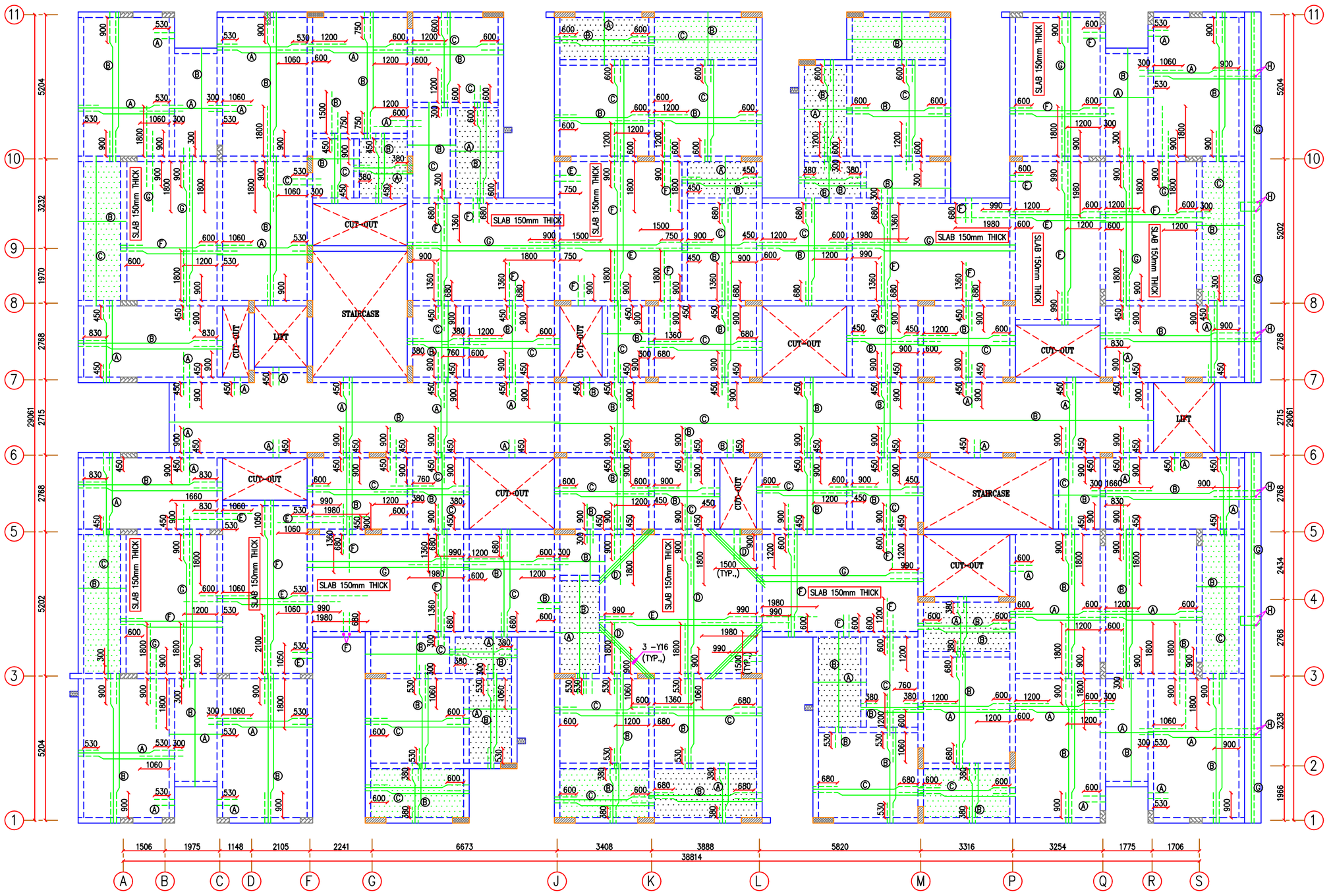
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FIFTH FLOOR BEAM LAYOUT



FIFTH FLOOR SLAB LAYOUT

GENERAL NOTES

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13. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

LEGENDS

- FULL HEIGHT COLUMN
- COLUMN TERMINATES @ FIFTH FLOOR
- FLOATING COLUMN FROM FIRST FLOOR
- FLOATING COLUMN FROM FIFTH FLOOR
- 9" SUNKEN
- 4" SUNKEN
- BEAM BRACKET
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

ABBREVIATIONS

Ld	DEVELOPMENT LENGTH
CAB	CANTILEVER BEAM
BR	BRACKET
FC	FLOATING COLUMN
N.T.S	NOT TO SCALE

ADVANCE COPY

REF.	DESCRIPTION	BY	DATE
R1	GRID (F-7) COLUMN SIZE REVISED	MV	19.01.26

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Fifth Floor Slab, Beam Layout & Details (1-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A1	1:100

DWG. NO:

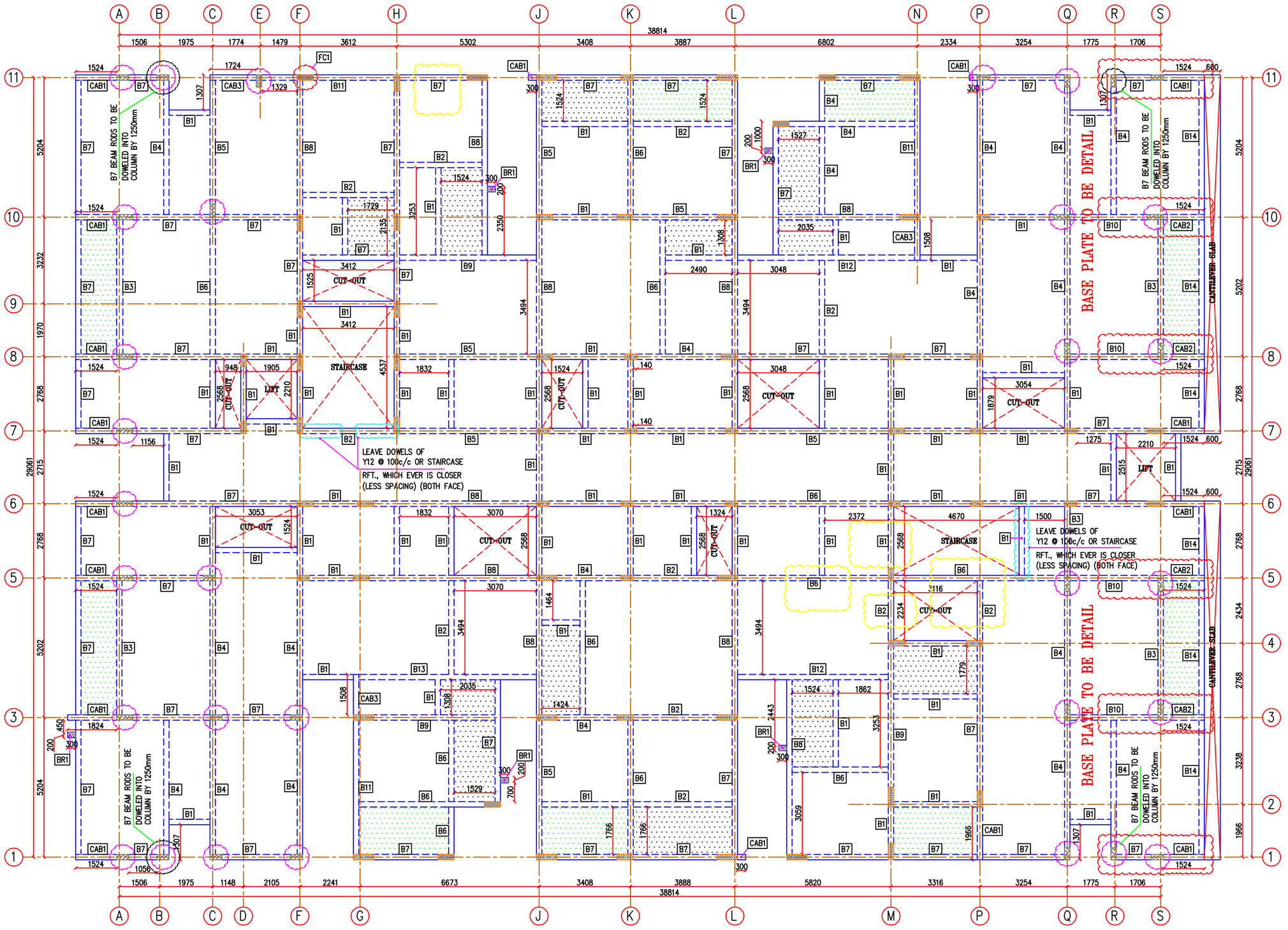
STRUCTURAL CONSULTANT

KAARVENS

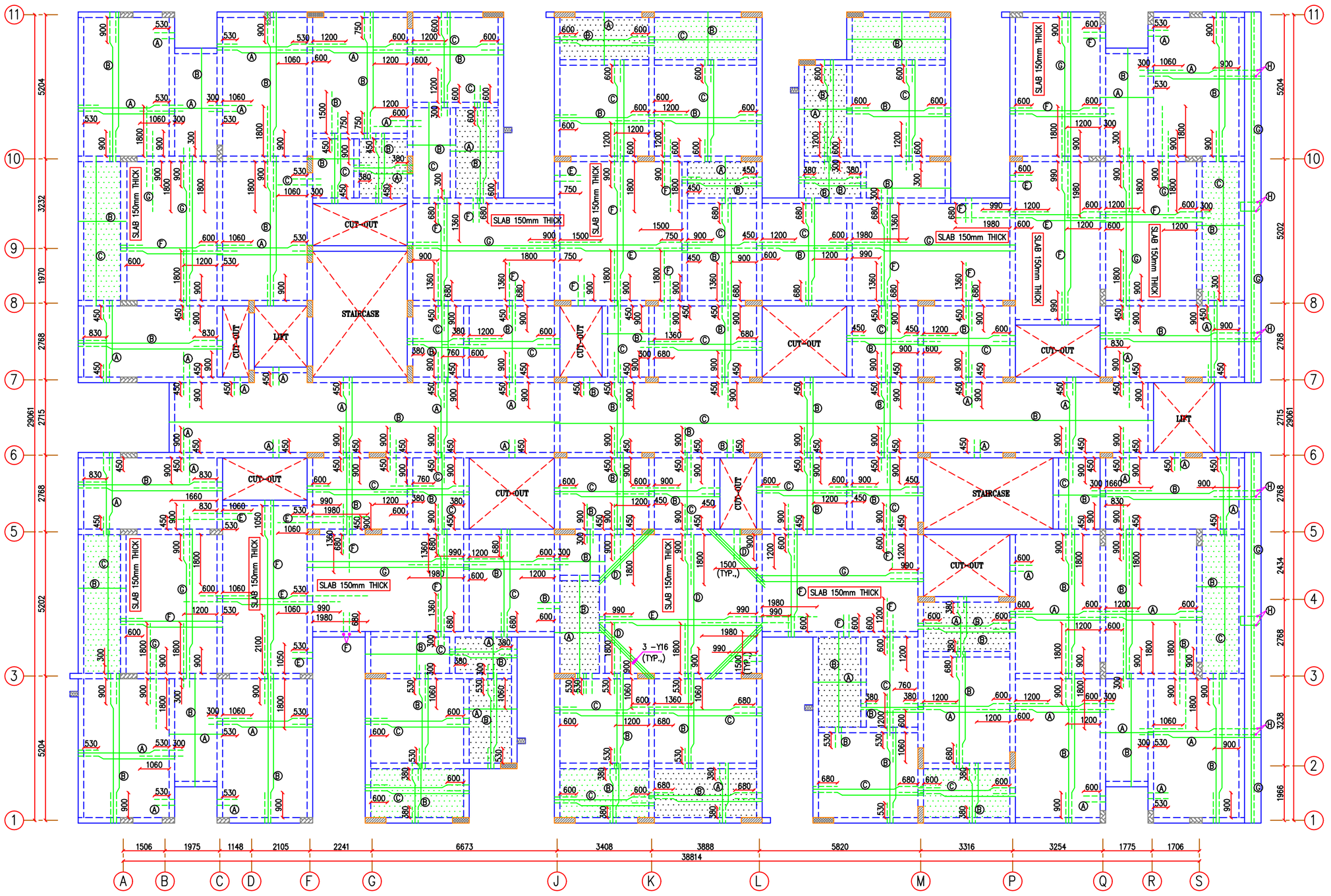
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FIFTH FLOOR BEAM LAYOUT



FIFTH FLOOR SLAB LAYOUT

GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM & 40mm FOR COLUMN.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. MINIMUM DEPTH OF SUNKEN SHALL BE 250mm.
10. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
11. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
12. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
13. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

LEGENDS

- FULL HEIGHT COLUMN
- COLUMN TERMINATES @ FIFTH FLOOR
- FLOATING COLUMN FROM FIRST FLOOR
- FLOATING COLUMN FROM FIFTH FLOOR
- 9" SUNKEN
- 4" SUNKEN
- BEAM BRACKET
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

ABBREVIATIONS

Ld	DEVELOPMENT LENGTH
CAB	CANTILEVER BEAM
BR	BRACKET
FC	FLOATING COLUMN
N.T.S	NOT TO SCALE

ADVANCE COPY

REF.	DESCRIPTION	BY	DATE
R1	GRID (F-7) COLUMN SIZE REVISED	MV	19.01.26

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Fifth Floor Slab, Beam Layout & Details (1-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A1	1:100

DWG. NO:

STRUCTURAL CONSULTANT

KAARVENS

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KAARVENS STRUCTURAL CONSULTANCY'S SCOPE IS LIMITED TO THE DESIGN/DRAWING AS PER THE BIS CODAL PROVISION & IS NOT LIABLE FOR CONSTRUCTION/MATERIAL QUALITY & SAFE CONSTRUCTION PRACTICE.

BEAM DETAILS

S No	Beam No	Beam Size	Section @ XX End span	Section @ YY Mid span
1	B1	200x380	3 – Y12 Y8 @ 175c/c 3 – Y12	
2	B2	200x380	2 – Y12 + 2 – Y16 (EXT) Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y16 (EXT)
3	B3	200x450	3 – Y12 Y8 @ 175c/c 3 – Y12	
4	B4	200x450	2 – Y12 + 2 – Y12 (EXT) Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y12 (EXT)
5	B5	200x450	2 – Y12 + 2 – Y16 (EXT) Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y16 (EXT)
6	B6	200x450	2 – Y16 + 2 – Y16 (EXT) Y8 @ 175c/c 2 – Y16	2 – Y16 Y8 @ 200c/c 2 – Y16 + 2 – Y16 (EXT)
7	B7/ CAB1	200x600	3 – Y16 Y8 @ 175c/c 3 – Y16	
8	B8	200x600	2 – Y16 + 2 – Y16 (EXT) Y8 @ 175c/c 2 – Y16	2 – Y16 Y8 @ 200c/c 2 – Y16 + 2 – Y16 (EXT)
9	B9	200x600	2 – Y16 + 3 – Y16 (EXT) Y8 @ 175c/c 2 – Y16	2 – Y16 Y8 @ 200c/c 2 – Y16 + 3 – Y16 (EXT)
10	B10/ CAB2	200x600	5 – Y16 Y8 @ 150c/c 3 – Y16	
11	B11/ CAB3	200x600	6 – Y16 Y8 @ 125c/c 3 – Y16	
12	B12	200x600	2 – Y20 + 4 – Y16 (EXT) Y8 @ 125c/c 2 – Y20	2 – Y20 Y8 @ 150c/c 2 – Y20 + 4 – Y16 (EXT)
13	B13	200x600	2 – Y20 + 3 – Y20 (EXT) Y10 @ 150c/c 2 – Y20	2 – Y20 Y10 @ 175c/c 2 – Y20 + 3 – Y20 (EXT)
14	B14	200x600	4 – Y16 Y10 @ 150c/c 4 – Y16	

FLOATING COLUMN DETAILS

S No	Column No	Column Size	Column Reinforcement Detail	Rings Detail (R–Ring)	Hooks Detail (H–Hook)	V–Rod Detail
1	FC1	200 x 600	10 – Y16 Y8 @ 150c/c	R–1, R–2, R–3	H–1	2–Y16

ABBREVIATIONS

Ld	– DEVELOPMENT LENGTH
CAB	– CANTILEVER BEAM
BR	– BRACKET
FC	– FLOATING COLUMN
N.T.S	– NOT TO SCALE

SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

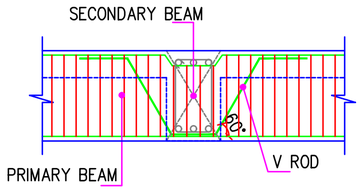
A	Y8	@	150 C/C
B	Y8	@	175 C/C
C	Y8	@	200 C/C
D	Y10	@	125 C/C
E	Y10	@	150 C/C
F	Y10	@	175 C/C
G	Y10	@	200 C/C
H	Y10	@	100 C/C

LIVE LOAD SCHEDULE

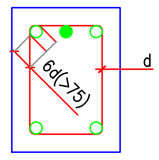
DESCRIPTION	LIVE LOAD (kN/m²)
FIFTH FLOOR	2

PRE CAMBERS FOR BEAMS

PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).



TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)

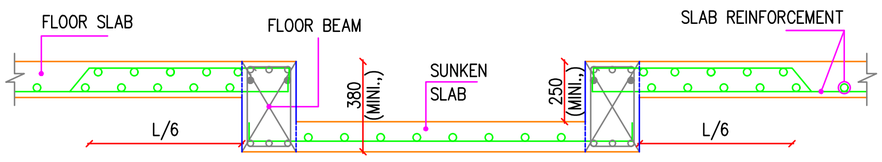


TYPICAL BEAM HOOK DETAILS

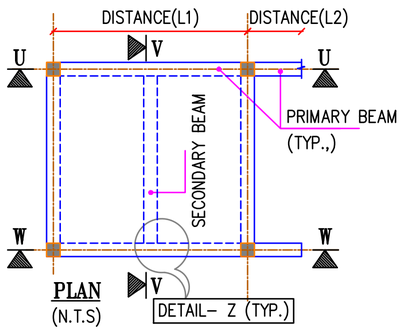
COLUMN TERMINATION DETAILS

S No	Grid No		Termination Level
1	A–1, A–3, A–5, A–6, A–7, A–8, A–10, A–11, B–1, B–11, C–1, C–3, C–5, C–10, E–11, F–1	F–3, P–11, Q–1, Q–3, Q–5, Q–8, Q–10, Q–11, R–1, R–11, S–1, S–3, S–5, S–8, S–10, S–11	Fifth Floor (Fourth Floor Roof)

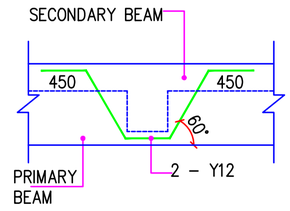
DESIGN ONLY FOR STATIC LOAD (DL + LL) LOAD CASES



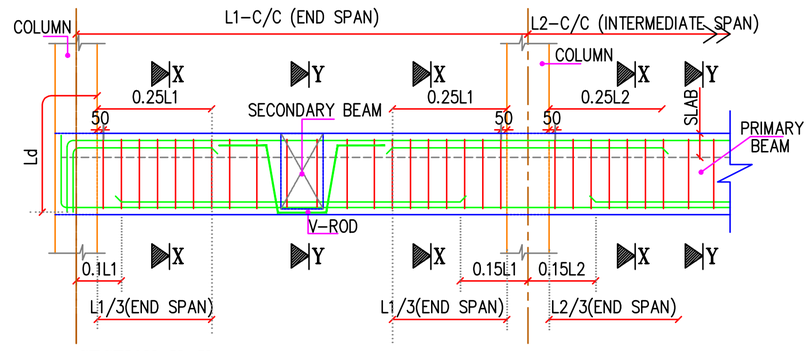
TYPICAL SUNKEN SLAB SECTION
(N.T.S)



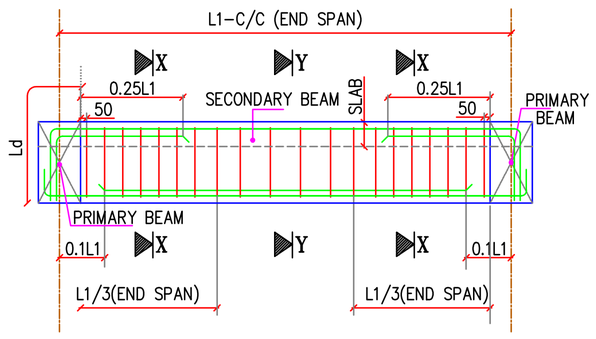
PLAN
(N.T.S)



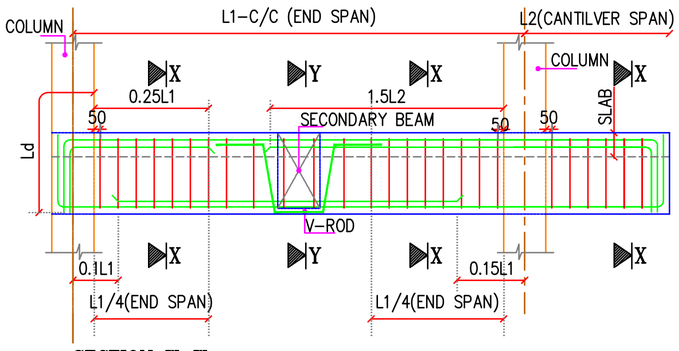
DETAIL – Z
(V–ROD DETAILS)
(N.T.S)



SECTION U–U
TYPICAL BEAM SECTION
(N.T.S)



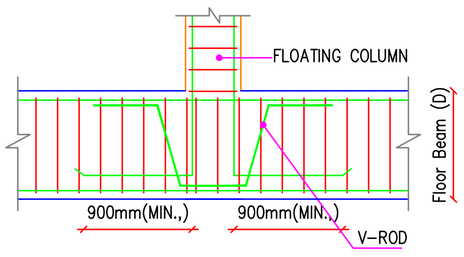
SECTION V–V
TYPICAL BEAM SECTION
(N.T.S)



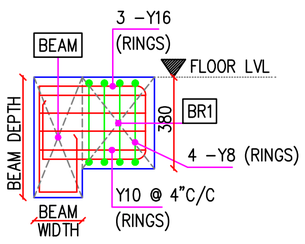
SECTION W–W
TYPICAL CANTILEVER BEAM SECTION
(N.T.S)

NOTE

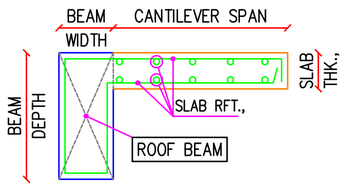
* ALL SUNKEN SLABS SHOULD BE FILLED ONLY WITH LIGHT WEIGHT FILLING MATERIAL (HEMALITE,VERMICULITE) OF UNIT WEIGHT 90 kg/m3 OR 1 kN/m2.



TYPICAL FLOATING COLUMN
SECTION @ CENTER
(N.T.S)



TYPICAL BRACKET DETAIL (BR1)
(SCALE 1:25)



TYPICAL CANTILEVER SLAB SECTION
(N.T.S)

ADVANCE COPY

REF.	DESCRIPTION	BY	DATE
REVISIONS			

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

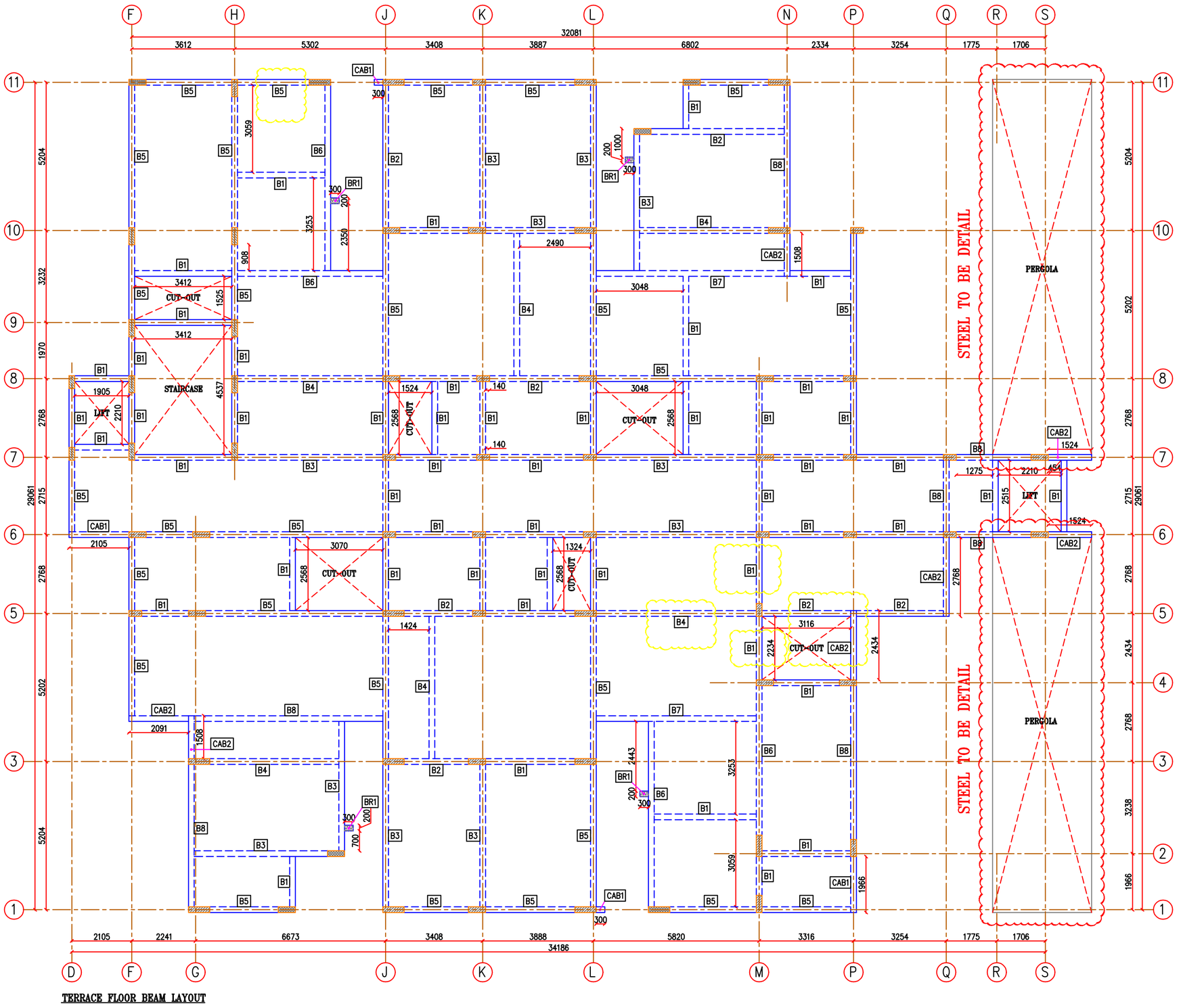
TITLE: Fifth Floor Slab, Beam Layout & Details (2-2).

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A2	1:100

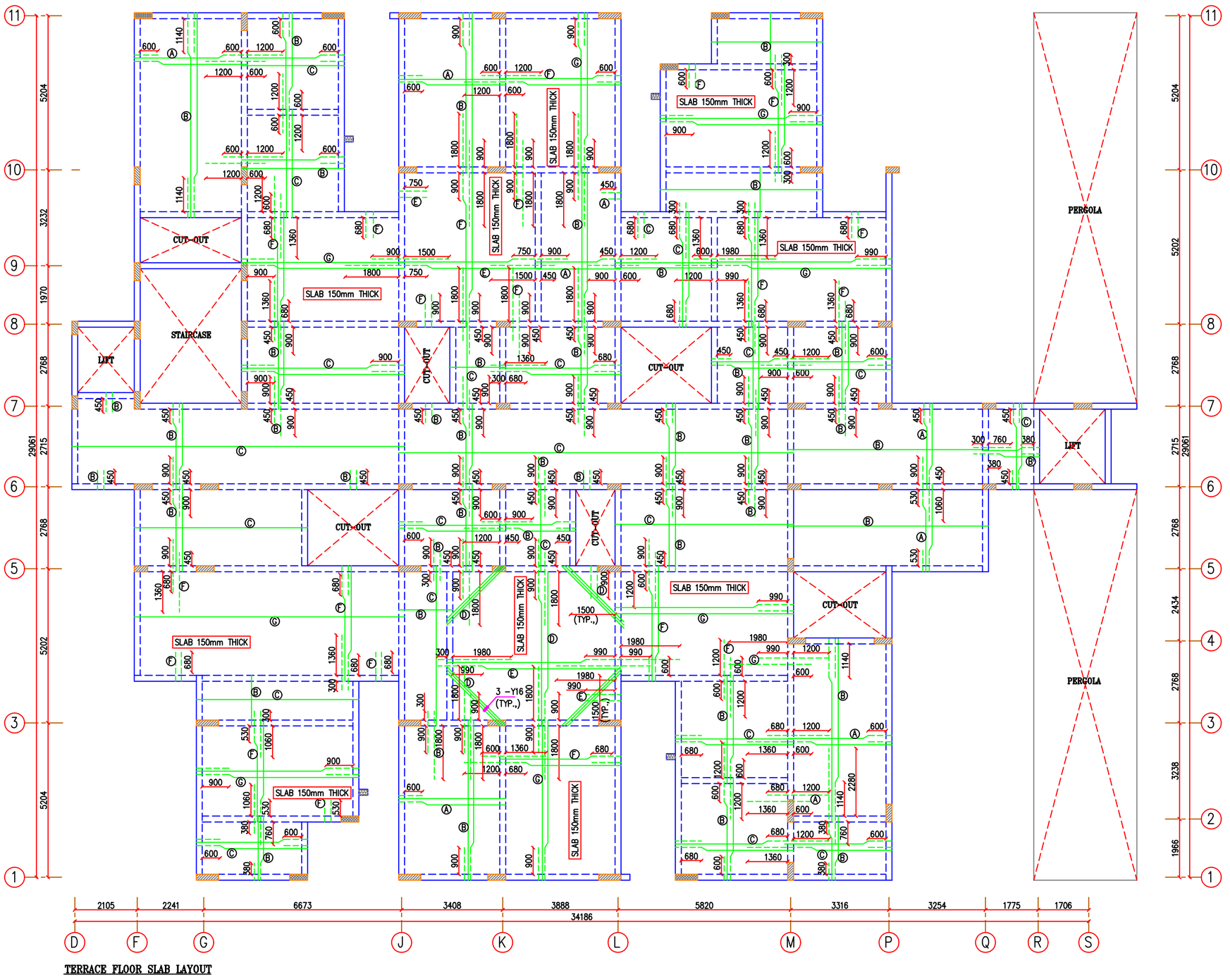
DWG. NO: MOS-25-02-RC-23-R0

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TERRACE FLOOR BEAM LAYOUT



TERRACE FLOOR SLAB LAYOUT

DESIGN ONLY FOR STATIC LOAD (DL + LL) LOAD CASES

BEAM DETAILS

S No	Beam No	Beam Size	Section @ XX End span	Section @ YY Mid span
1	B1	200x380	3 – Y12 Y8 @ 175c/c 3 – Y12	
2	B2	200x450	3 – Y12 Y8 @ 175c/c 3 – Y12	
3	B3	200x450	2 – Y12 + 2 – Y12 (EXT)● Y8 @ 175c/c 2 – Y12	2 – Y12 Y8 @ 200c/c 2 – Y12 + 2 – Y12 (EXT)●
4	B4	200x450	2 – Y16 + 2 – Y16 (EXT)● Y8 @ 175c/c 2 – Y16	2 – Y16 Y8 @ 200c/c 2 – Y16 + 2 – Y16 (EXT)●
5	B5/ CAB1	200x600	3 – Y16 Y8 @ 175c/c 3 – Y16	
6	B6	200x600	2 – Y16 + 2 – Y16 (EXT)● Y8 @ 175c/c 2 – Y16	2 – Y16 Y8 @ 200c/c 2 – Y16 + 2 – Y16 (EXT)●
7	B7	200x600	2 – Y16 + 4 – Y16 (EXT)● Y8 @ 175c/c 2 – Y16	2 – Y16 Y8 @ 200c/c 2 – Y16 + 4 – Y16 (EXT)●
8	B8/ CAB2	200x600	6 – Y16 Y8 @ 175c/c 5 – Y16	

SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

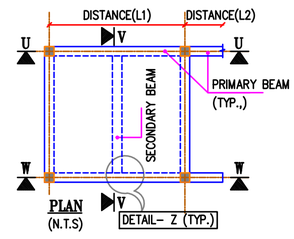
A	Y8	@	150 C/C
B	Y8	@	175 C/C
C	Y8	@	200 C/C
D	Y10	@	125 C/C
E	Y10	@	150 C/C
F	Y10	@	175 C/C
G	Y10	@	200 C/C

LIVE LOAD SCHEDULE

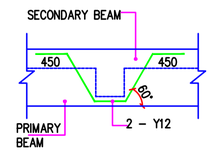
DESCRIPTION	LIVE LOAD (kN/m²)
TERRACE FLOOR	2

PRE CAMBERS FOR BEAMS

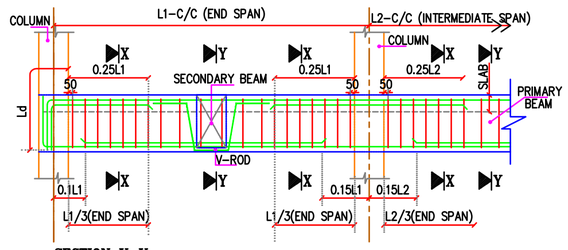
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).



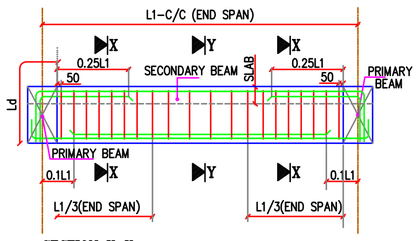
PLAN (N.T.S)



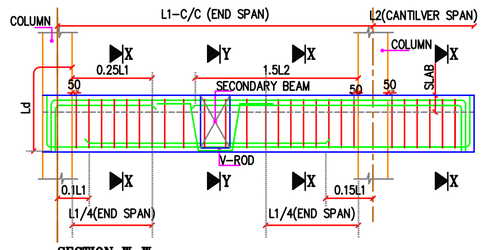
DETAIL – Z (V-ROD DETAILS) (N.T.S)



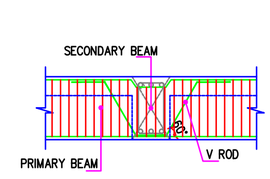
SECTION U–U
TYPICAL BEAM SECTION
(N.T.S)



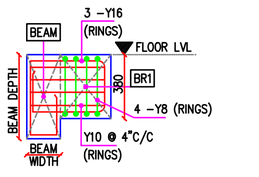
SECTION V–V
TYPICAL BEAM SECTION
(N.T.S)



SECTION W–W
TYPICAL CANTILEVER BEAM SECTION
(N.T.S)



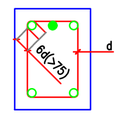
TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL
(N.T.S)



TYPICAL BRACKET DETAIL (BR1)
(SCALE 1:25)

ABBREVIATIONS

Ld	–	DEVELOPMENT LENGTH
CAB	–	CANTILEVER BEAM
BR	–	BRACKET
N.T.S	–	NOT TO SCALE



TYPICAL BEAM HOOK DETAILS

GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM & 40mm FOR COLUMN.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
10. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
11. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
12. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

LEGENDS

- – FULL HEIGHT COLUMN
- – COLUMN TERMINATES @ FIFTH FLOOR
- – FLOATING COLUMN FROM FIFTH FLOOR
- – BEAM BRACKET
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

N

ADVANCE COPY

REF	DESCRIPTION	BY	DATE
R1	GRID (F-7) COLUMN SIZE REVISED	MV	19.01.26

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Proposed 2&3 BHK Apartment.

TITLE: Terrace Floor Slab, Beam Layout & Details.

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
JS	SP	SKAK	SKAK	06.11.25	A1	1:100

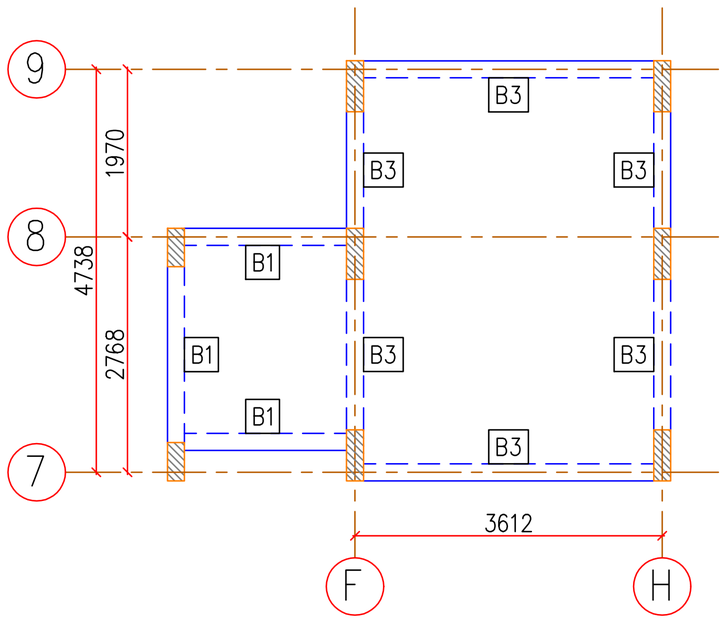
DWG. NO:

STRUCTURAL CONSULTANT

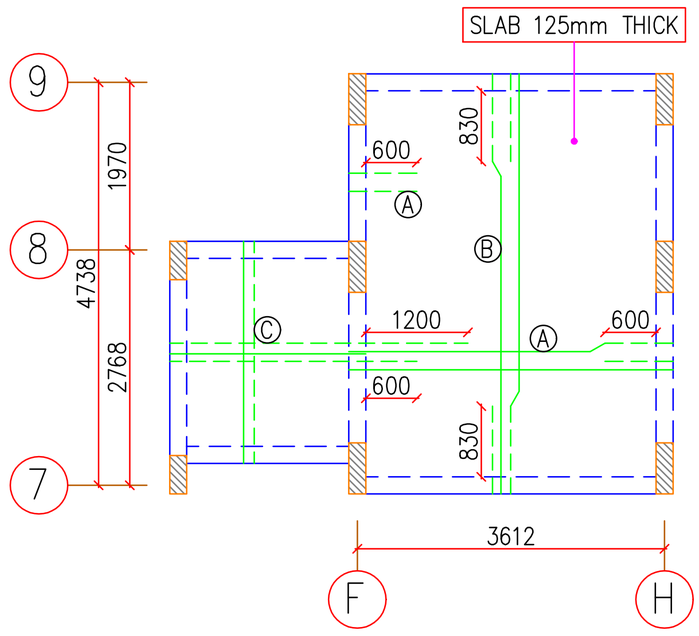
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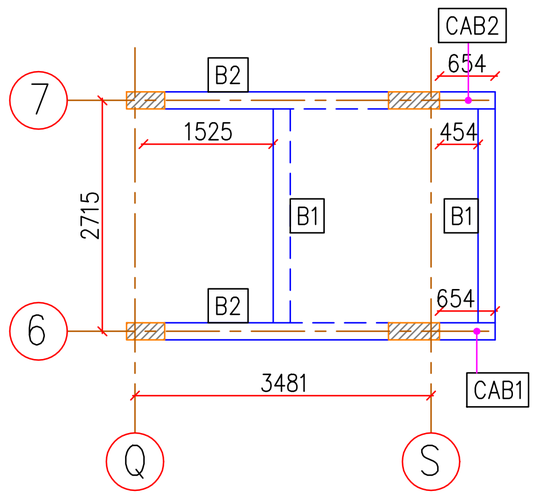
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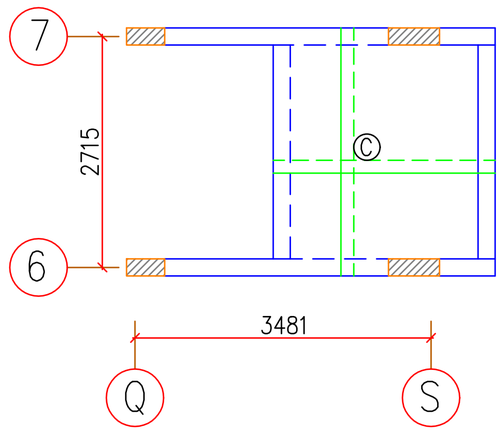
STAIRCASE & LIFT HEADROOM
COVER SLAB, BEAM LAYOUT



STAIRCASE & LIFT HEADROOM
COVER SLAB LAYOUT



LIFT HEADROOM
COVER SLAB, BEAM LAYOUT



LIFT HEADROOM
COVER SLAB, BEAM LAYOUT

BEAM DETAILS

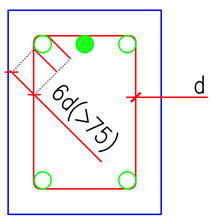
S No	Beam No	Beam Size	Beam Reinforcement Details
1	B1	200x380	3 – Y12 Y8 @ 175c/c 3 – Y12
2	B2/ CAB1	200x450	3 – Y16 Y8 @ 150c/c 3 – Y16
3	B3	200x600	4 – Y16 Y8 @ 150c/c 4 – Y16

LIVE LOAD SCHEDULE

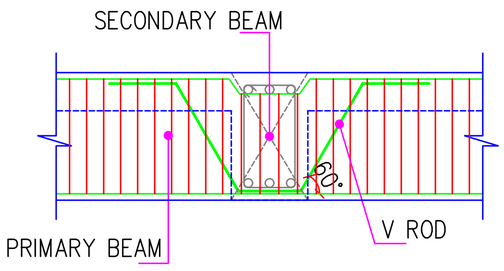
DESCRIPTION	LIVE LOAD (kN/m²)
STAIRCASE & LIFT HEADROOM	0.75

SLAB DETAILS

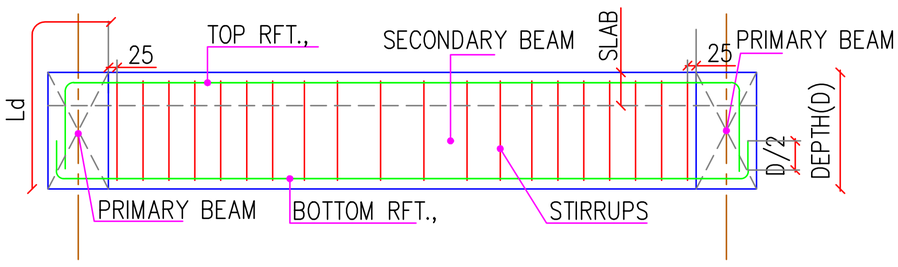
THICKNESS : 200 (UNLESS NOTED)	
A	Y8 @ 150 C/C
B	Y8 @ 175 C/C
C	Y12 @ 100 C/C



TYPICAL BEAM
HOOK DETAILS



TYPICAL PRIMARY SECONDARY
BEAM JUNCTION DETAIL
(N.T.S)



TYPICAL BEAM SECTION
(N.T.S)

ADVANCE COPY

GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM.
6. LAP LENGTH (Ld) SHALL BE 50*D (DIA OF BAR) FOR ALL BARS.
7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
8. THIS DRAWING IS NOT TO BE SCALED ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
9. ALL SLABS SHALL BE PROVIDED WITH TOP DISTRIBUTORS OF Y8 @ 200 C/C.
10. SPACER BAR TO BE PROVIDED IN BETWEEN TWO LAYERS OF REINFORCEMENT OF SAME DIA(MIN.,20mm) AT EVERY 1000 C/C.
11. THE SITE IN-CHARGE SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES SHALL BE REPORTED TO THE STRUCTURAL ENGINEER BEFORE EXECUTION.
12. DESIGNED ONLY FOR STATIC LOAD (DL + LL) LOAD CASES.

LEGENDS

- FULL HEIGHT COLUMN
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

N

REF.	DESCRIPTION	BY	DATE
R1	GRID (F-7) COLUMN SIZE REVISED	MV	19.01.26

REVISIONS

CLIENT:
Morais Architect X.

PROJECT:
Proposed 2&3 BHK Apartment.

TITLE:
Staircase & Lift Headroom Cover Slab, Beam Layout and Details.

DSGN	DRWN	CHKD	APPD	DATE	SHEET	SCALE
HG	BK	SKAK	SKAK	06.11.25	A3	1:100

DWG. NO: MOS-25-02-RC-26-R1

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THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

Verified RealEstate
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Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.