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RE REGULATORY RECORD

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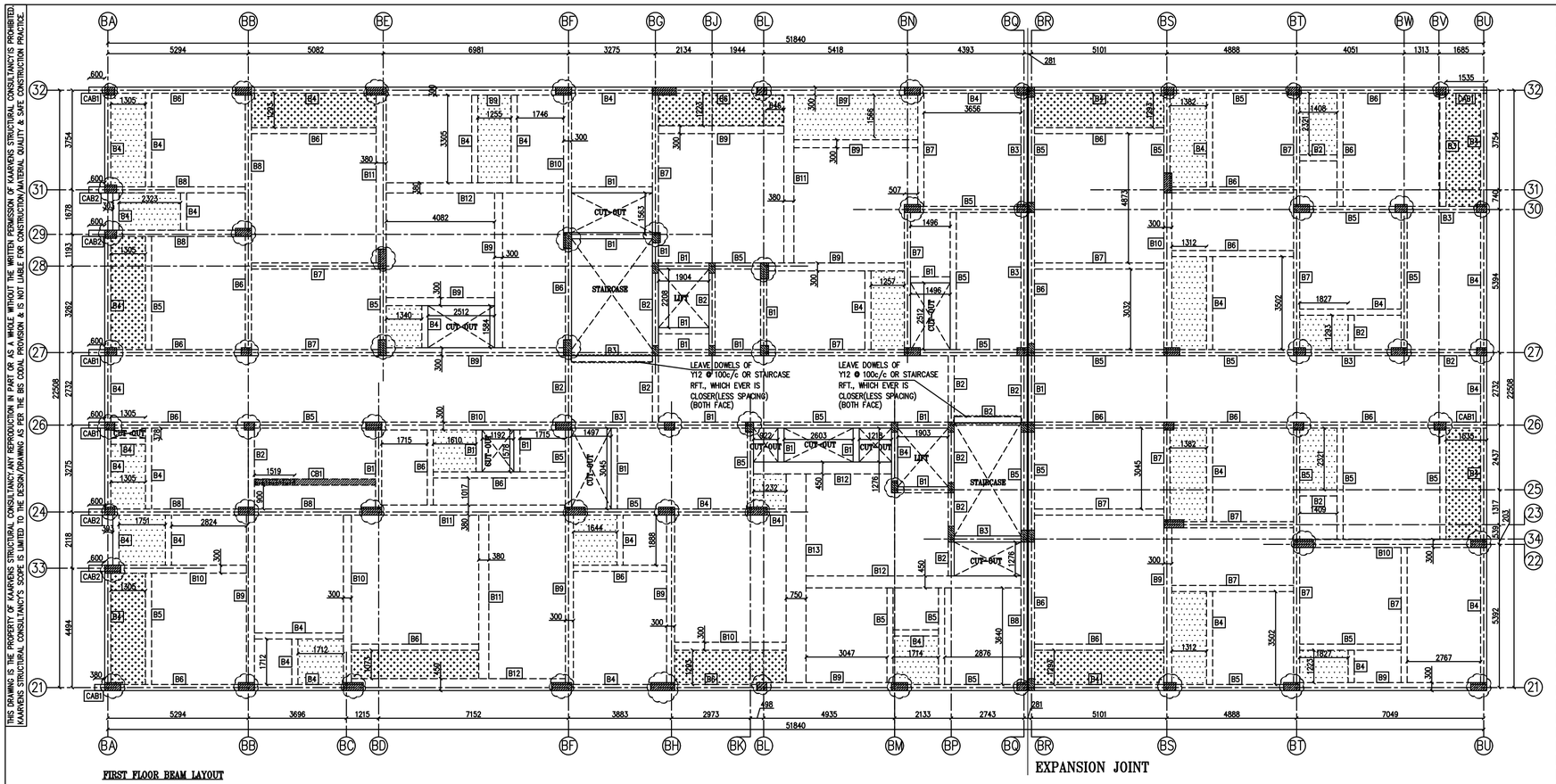
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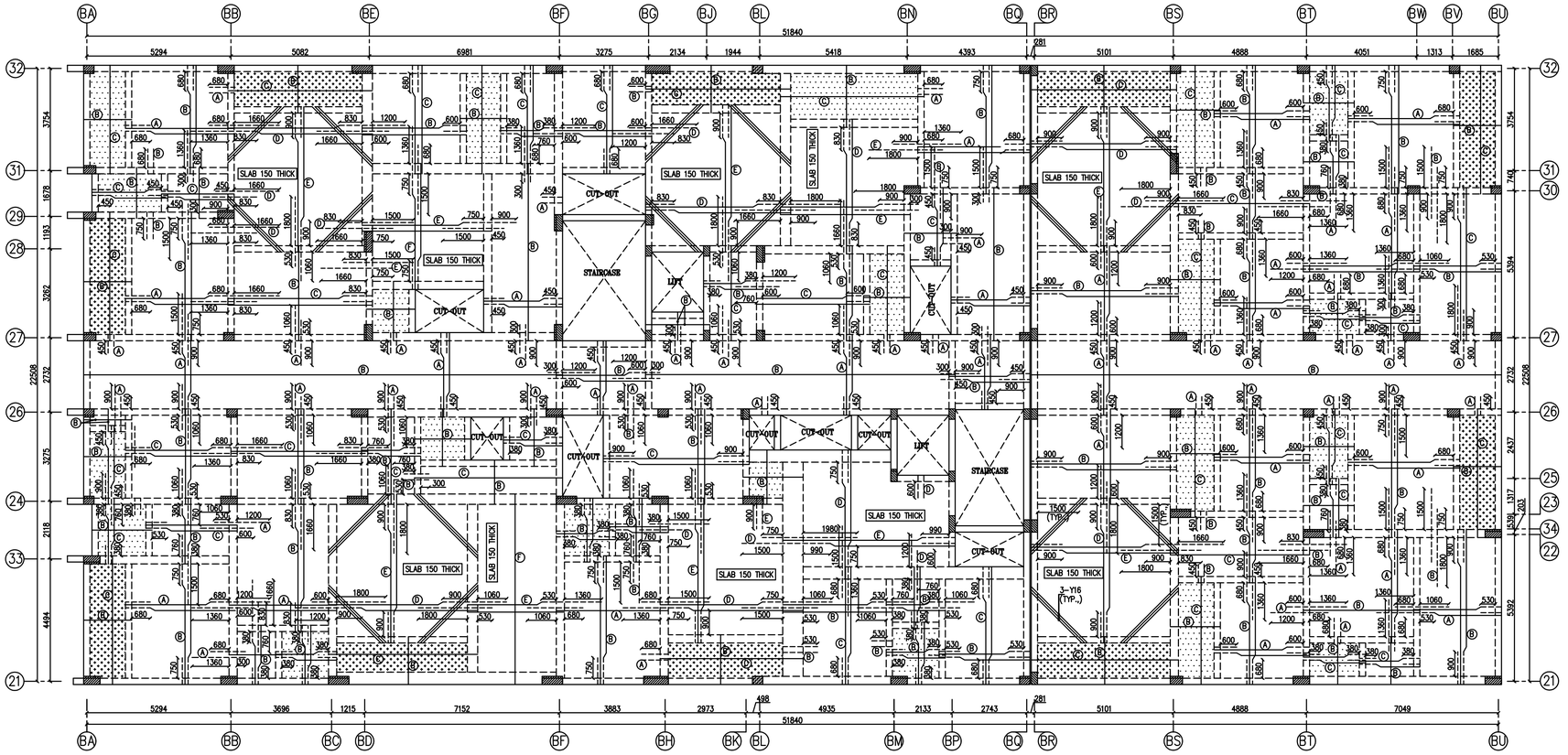
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FIRST FLOOR BEAM LAYOUT




FIRST FLOOR SLAB LAYOUT

## FIRST FLOOR BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y12 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 2 – Y20 +<br>2 – Y20 (EXT)•<br>Y8 @ 125c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 150c/c<br>2 – Y20 +<br>2 – Y20 (EXT)• |
| 9 | B9 | 300x450 | 2 – Y20 +<br>2 – Y25 (EXT)•<br>Y10 @ 125c/c<br>2 – Y20 | 2 – Y20<br>Y10 @ 125c/c<br>2 – Y20 +<br>2 – Y25 (EXT)• |
| 10 | B10 | 300x450 | 3 – Y25 +<br>2 – Y20 (EXT)•<br>Y10 @ 125c/c<br>3 – Y25 | 3 – Y25<br>Y10 @ 150c/c<br>3 – Y25 +<br>2 – Y20 (EXT)• |
| 11 | B11 | 380x450 | 3 – Y25 +<br>2 – Y25 (EXT)•<br>Y10 @ 150c/c<br>3 – Y25 | 3 – Y25<br>Y10 @ 150c/c<br>3 – Y25 +<br>2 – Y25 (EXT)• |
| 12 | B12 | 450x450 | 8 – Y25<br>Y10 @ 150c/c<br>(4–Legged)<br>8 – Y25 | |
| 13 | B13 | 750x450 | 12 – Y25<br>Y10 @ 150c/c<br>(6–Legged)<br>12 – Y25 | |
| 14 | CAB2 | 230x450 | 2 – Y20<br>Y8 @ 150c/c<br>2 – Y20 | |
| 15 | CB1 | 230x125 | 6 – Y12<br>Y8 @ 150c/c | |

## FIRST FLOOR SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

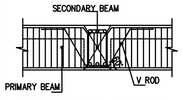
| | |
|---|---|
| A | Y8 @ 150 C/C |
| B | Y8 @ 175 C/C |
| C | Y8 @ 200 C/C |
| D | Y10 @ 150 C/C |
| E | Y10 @ 175 C/C |
| F | Y10 @ 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| FIRST FLOOR | 2 |




TYPICAL BEAM HOOK DETAILS




TYPICAL PRIMARY SECONDARY BEAM JUNCTION DETAIL (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.

**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).

## 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 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 230mm.
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.

## LEGENDS

- – FULL HEIGHT COLUMN
- – 230mm SUNKEN
- – 100mm SUNKEN
- – CONCEALED BEAM
- – LIGHT WEIGHT BRICK WALL
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |

**NOTE**
*FRONT ELEVATION TO BE DETAIL.

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT: Morais Architect X.

PROJECT: Morais Eden Apartment.

TITLE: First Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A1 | 1:100 |

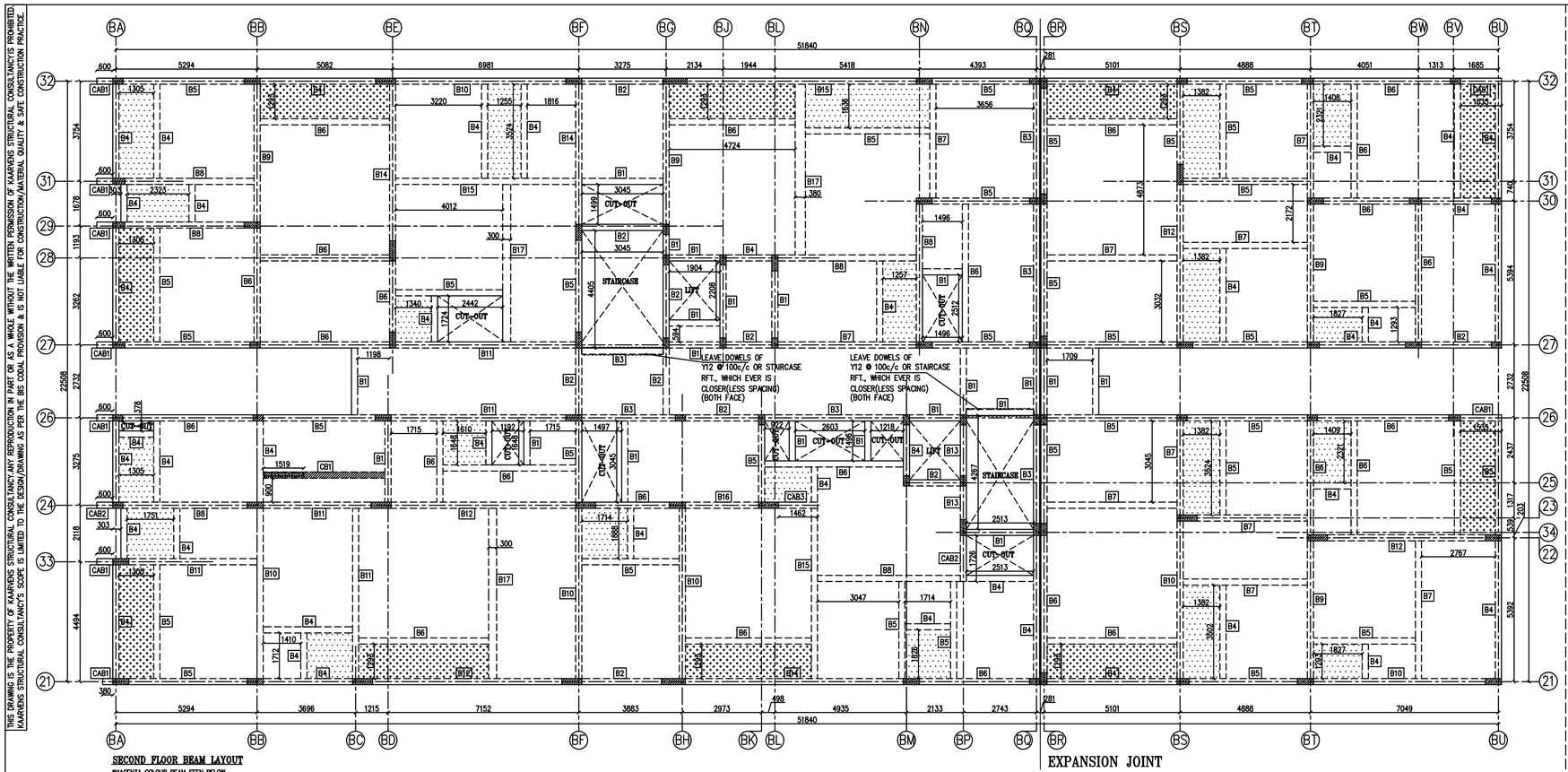
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STRUCTURAL CONSULTANT

KAARVENS

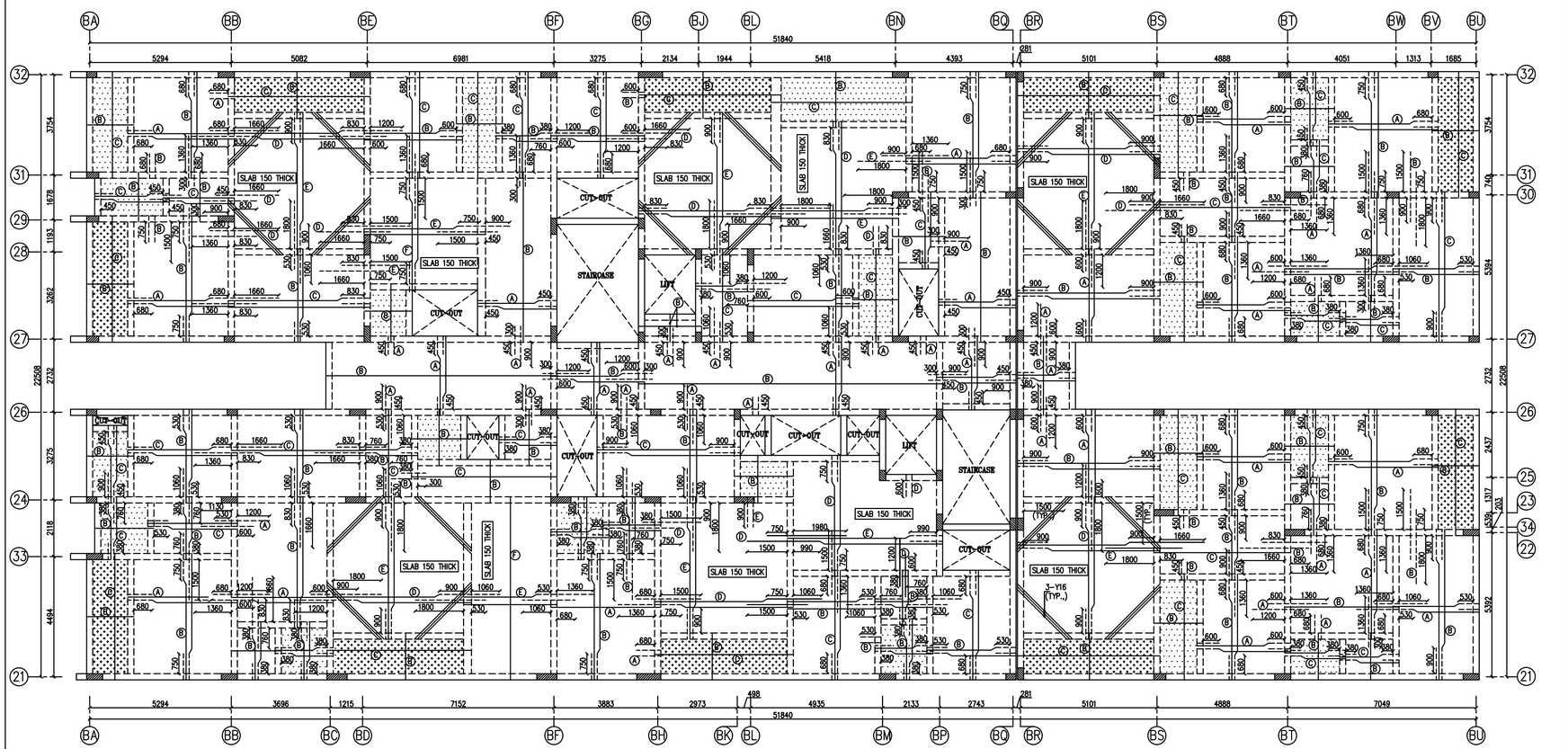
Er. S.K.ARUN KAMARAJ, ME (Struct.),
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KOTHARI LAYOUT, RAMANATHAPURAM,
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## SECOND FLOOR BEAM LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW




## SECOND FLOOR SLAB LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW

## SECOND FLOOR BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 100c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 100c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 10 | B10 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 11 | B11 | 230x600 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y20 +<br>2 – Y20 (EXT) +•<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 150c/c<br>2 – Y20 +<br>2 – Y20 (EXT) +•<br>2 – Y16 (EXT)• |
| 13 | B13/ CAB2 | 230x600 | 4 – Y20 +<br>2 – Y16•<br>Y8 @ 150c/c<br>4 – Y20 | |
| 14 | B14 | 230x750 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 15 | B15 | 230x750 | 4 – Y20<br>Y8 @ 125c/c<br>4 – Y20 +<br>4 – Y16• | |
| 16 | B16/ CAB3 | 230x750 | 4 – Y20 +<br>4 – Y16•<br>Y8 @ 125c/c<br>4 – Y20 | |
| 17 | B17 | 300x450 | 3 – Y25<br>Y10 @ 125c/c<br>5 – Y25 | |
| 15 | CB1 | 230x125 | 6 – Y12<br>Y8 @ 150c/c | |
| 16 | CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |

## SECOND FLOOR SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

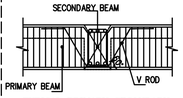
| | |
|---|---|
| A | Y8 : @ : 150 C/C |
| B | Y8 : @ : 175 C/C |
| C | Y8 : @ : 200 C/C |
| D | Y10 : @ : 150 C/C |
| E | Y10 : @ : 175 C/C |
| F | Y10 : @ : 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| SECOND FLOOR | 2 |

TYPICAL BEAM HOOK DETAILS




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

N

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
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5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM & 40mm COLUMN
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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 230mm.
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.

## LEGENDS

- – FULL HEIGHT COLUMN
- – 230mm SUNKEN
- – 100mm SUNKEN
- – CONCEALED BEAM
- – LIGHT WEIGHT BRICK WALL
- – TOP REINFORCEMENT
- – BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |

## 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).

## 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.

## NOTE

*FRONT ELEVATION TO BE DETAIL.

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT: Morais Architect X.

PROJECT: Morais Eden Apartment.

TITLE: Second Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
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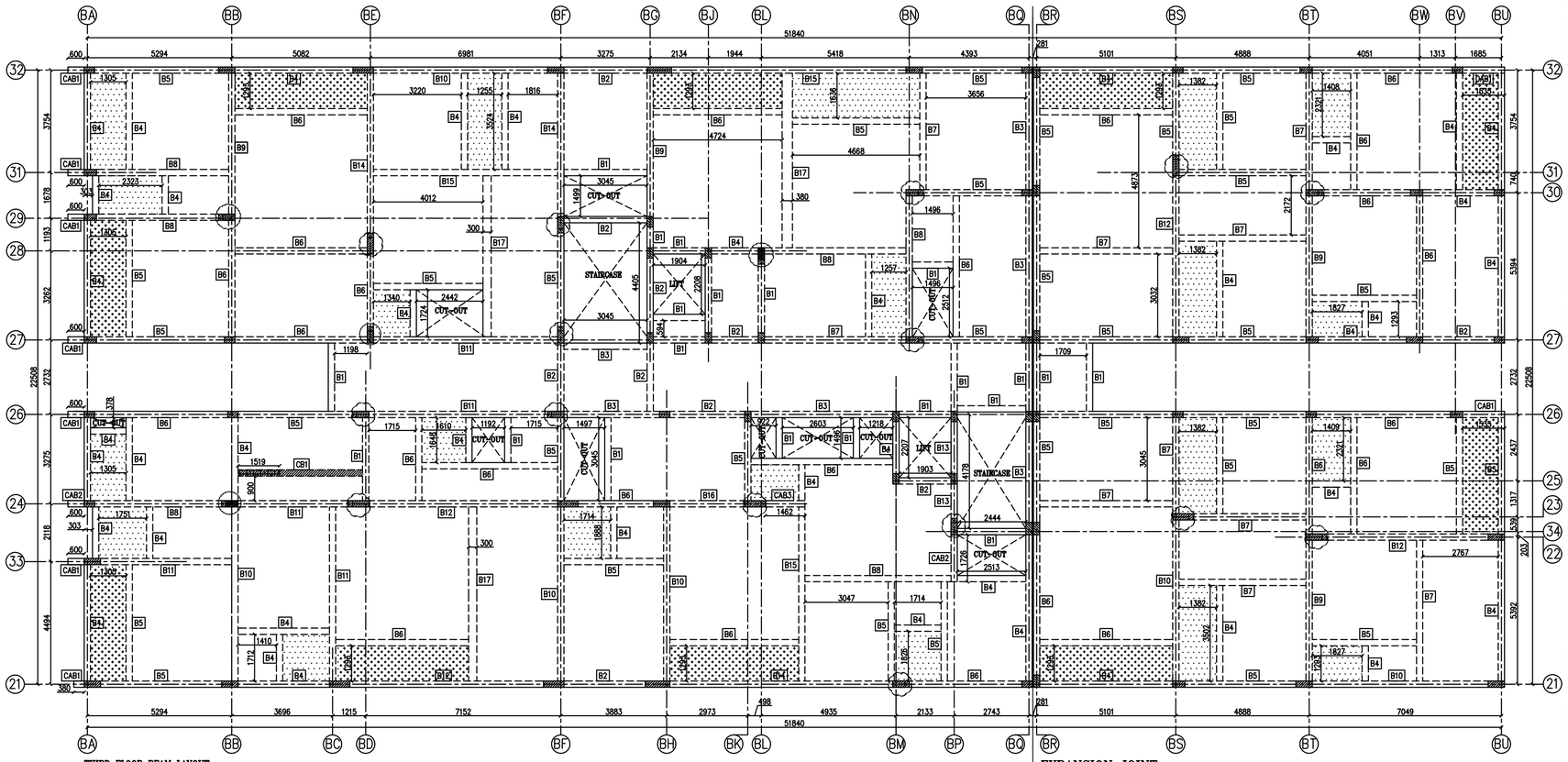
DWG NO: MOS/ERS/GF/BK/100/RO

STRUCTURAL CONSULTANT

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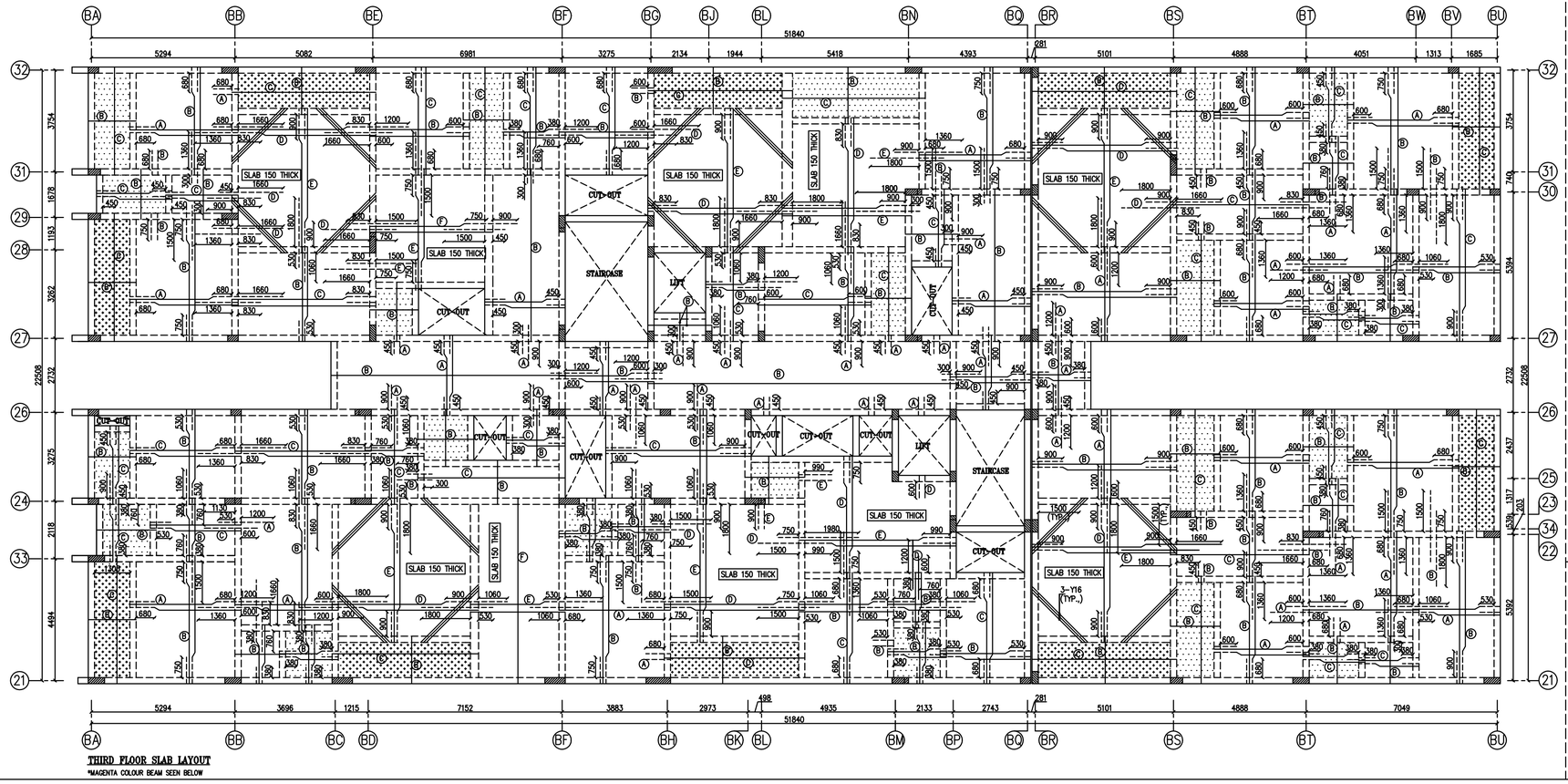
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THIRD FLOOR BEAM LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW

EXPANSION JOINT




THIRD FLOOR SLAB LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW

## THIRD FLOOR BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)*<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)* |
| 4 | B4 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |
| 5 | B5 | 230x450 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)*<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>2 – Y16 (EXT)* |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>3 – Y16 (EXT)* |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 100c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 100c/c<br>3 – Y16 +<br>3 – Y16 (EXT)* |
| 9 | B9 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)*<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>2 – Y16 (EXT)* |
| 10 | B10 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>3 – Y16 (EXT)* |
| 11 | B11 | 230x600 | 3 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)* |
| 12 | B12 | 230x600 | 2 – Y20 +<br>2 – Y20 (EXT) +*<br>2 – Y16 (EXT)*<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 150c/c<br>2 – Y20 +<br>2 – Y20 (EXT) +*<br>2 – Y16 (EXT)* |
| 13 | B13/ CAB2 | 230x600 | | 4 – Y20 +<br>2 – Y16*<br>Y8 @ 150c/c<br>4 – Y20 |
| 14 | B14 | 230x750 | 3 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)* |
| 15 | B15 | 230x750 | | 4 – Y20<br>Y8 @ 125c/c<br>4 – Y20 +<br>4 – Y16* |
| 16 | B16/ CAB3 | 230x750 | | 4 – Y20 +<br>4 – Y16*<br>Y8 @ 125c/c<br>4 – Y20 |
| 17 | B17 | 300x450 | | 3 – Y25<br>Y10 @ 125c/c<br>5 – Y25 |
| 15 | CB1 | 230x125 | | 6 – Y12<br>Y8 @ 150c/c |
| 16 | CAB1 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |

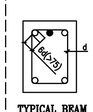
## THIRD FLOOR SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

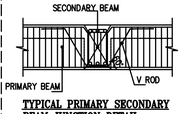
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| B | Y8 : @ : 175 C/C |
| C | Y8 : @ : 200 C/C |
| D | Y10 : @ : 150 C/C |
| E | Y10 : @ : 175 C/C |
| F | Y10 : @ : 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| SECOND FLOOR | 2 |




TYPICAL BEAM HOOK DETAILS




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

N

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
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## LEGENDS

- – FULL HEIGHT COLUMN
- – 230mm SUNKEN
- – 100mm SUNKEN
- – CONCEALED BEAM
- – LIGHT WEIGHT BRICK WALL
- – – – – TOP REINFORCEMENT
- ——— BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |

**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).

**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.

**NOTE**

*FRONT ELEVATION TO BE DETAIL.

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT: Morais Architect X.

PROJECT: Morais Eden Apartment.

TITLE: Third Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A1 | 1:100 |

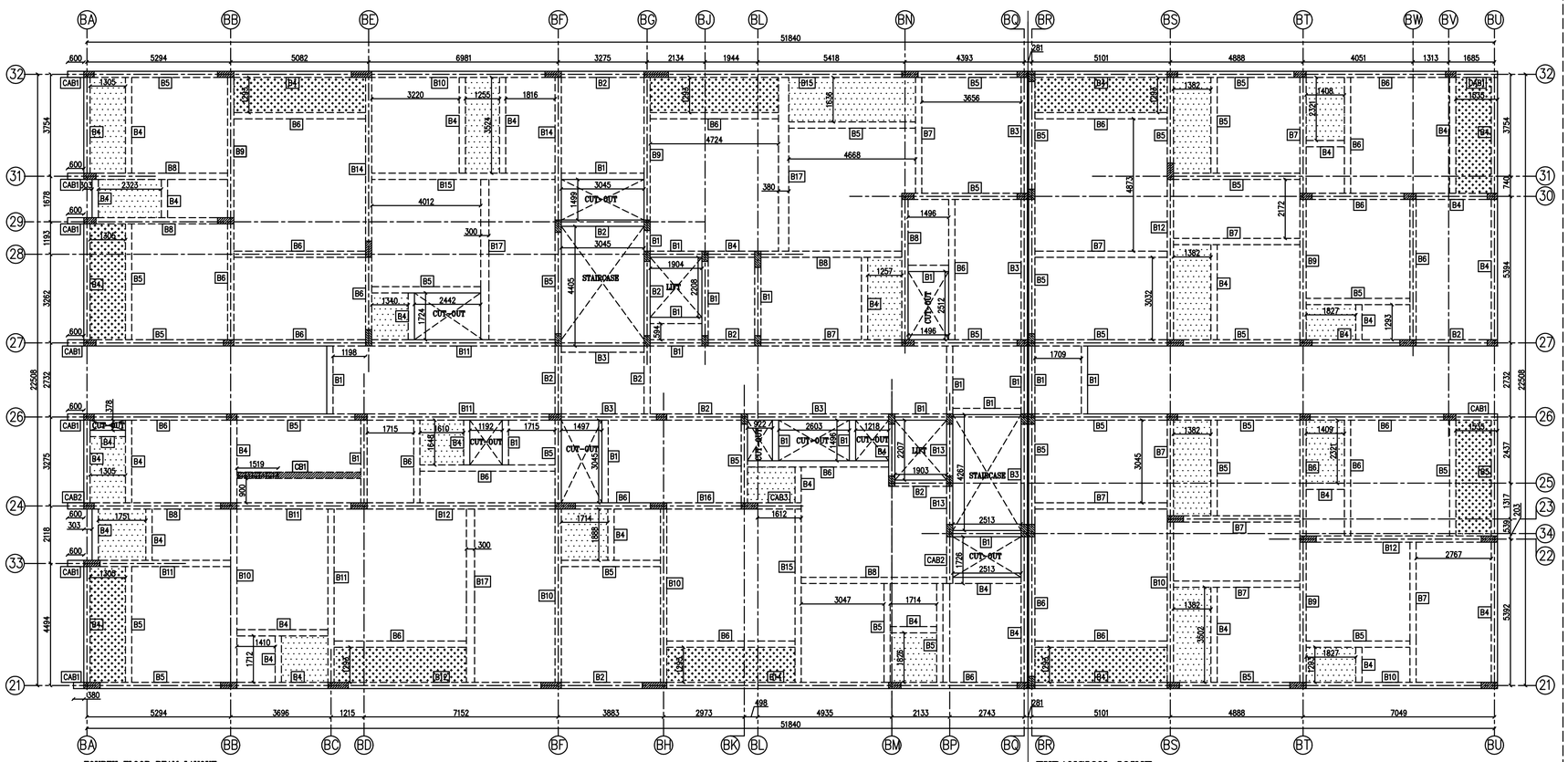
DWG. NO: MOS-EDN-OFL-BFL-THF-BEM

STRUCTURAL CONSULTANT

KAARVENS

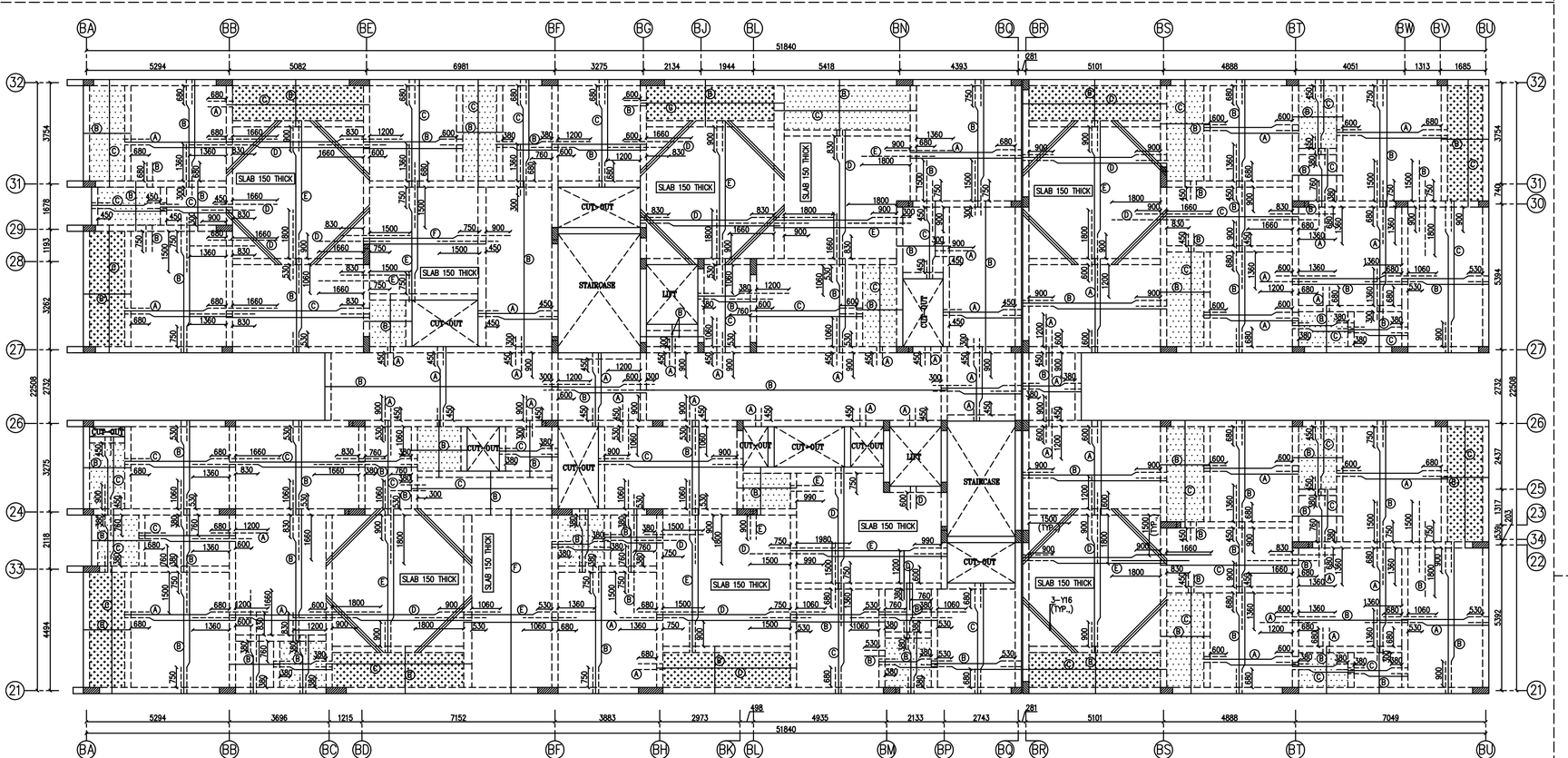
Er. S.K.ARUN KAMARAJ, ME (Struct.),
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KOTHARI LAYOUT, RAMANATHAPURAM,
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FOURTH FLOOR BEAM LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW




FOURTH FLOOR SLAB LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW

## FOURTH FLOOR BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)*<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)* |
| 4 | B4 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |
| 5 | B5 | 230x450 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)*<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>2 – Y16 (EXT)* |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>3 – Y16 (EXT)* |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 100c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 100c/c<br>3 – Y16 +<br>3 – Y16 (EXT)* |
| 9 | B9 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)*<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>2 – Y16 (EXT)* |
| 10 | B10 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>3 – Y16 (EXT)* |
| 11 | B11 | 230x600 | 3 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)* |
| 12 | B12 | 230x600 | 2 – Y20 +<br>2 – Y20 (EXT) +*<br>2 – Y16 (EXT)*<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 150c/c<br>2 – Y20 +<br>2 – Y20 (EXT) +*<br>2 – Y16 (EXT) * |
| 13 | B13/ CAB2 | 230x600 | | 4 – Y20 +<br>2 – Y16*<br>Y8 @ 150c/c<br>4 – Y20 |
| 14 | B14 | 230x750 | 3 – Y16 +<br>3 – Y16 (EXT)*<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)* |
| 15 | B15 | 230x750 | | 4 – Y20<br>Y8 @ 125c/c<br>4 – Y20 +<br>4 – Y16 * |
| 16 | B16/ CAB3 | 230x750 | | 4 – Y20 +<br>4 – Y16*<br>Y8 @ 125c/c<br>4 – Y20 |
| 17 | B17 | 300x450 | | 3 – Y25<br>Y10 @ 125c/c<br>5 – Y25 |
| 15 | CB1 | 230x125 | | 6 – Y12<br>Y8 @ 150c/c |
| 16 | CAB1 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |

## 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 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 230mm.
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.

## LEGENDS

- FULL HEIGHT COLUMN
- 230mm SUNKEN
- 100mm SUNKEN
- CONCEALED BEAM
- LIGHT WEIGHT BRICK WALL
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |

## 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).

## 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.

**NOTE**

*FRONT ELEVATION TO BE DETAIL.

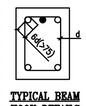
## FOURTH FLOOR SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

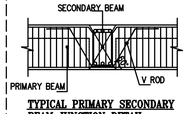
| | |
|---|---|
| A | Y8 : @ : 150 C/C |
| B | Y8 : @ : 175 C/C |
| C | Y8 : @ : 200 C/C |
| D | Y10 : @ : 150 C/C |
| E | Y10 : @ : 175 C/C |
| F | Y10 : @ : 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| SECOND FLOOR | 2 |




TYPICAL BEAM HOOK DETAILS




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

N

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Morais Eden Apartment.

TITLE: Fourth Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A1 | 1:100 |

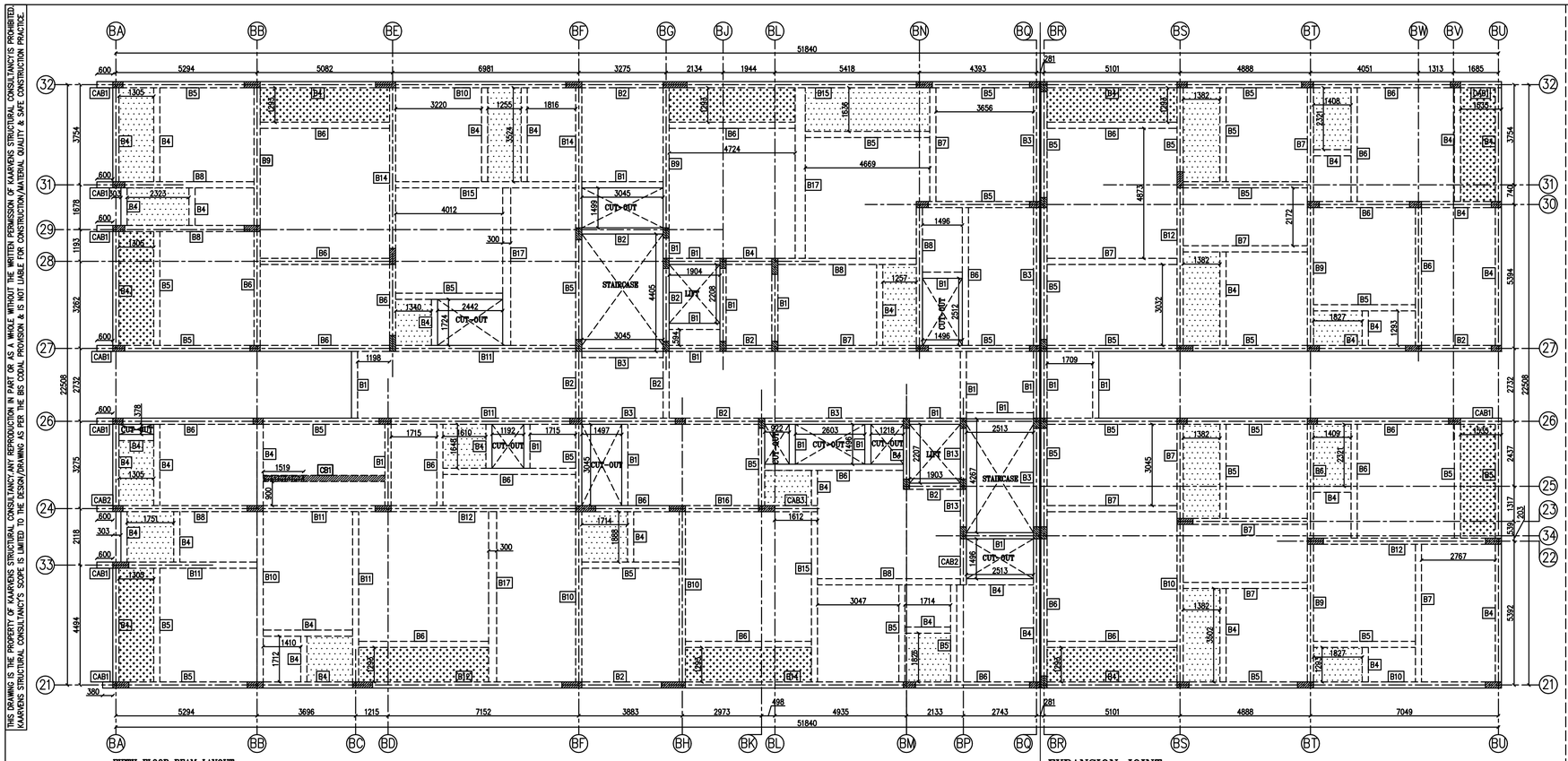
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STRUCTURAL CONSULTANT

KAARVENS

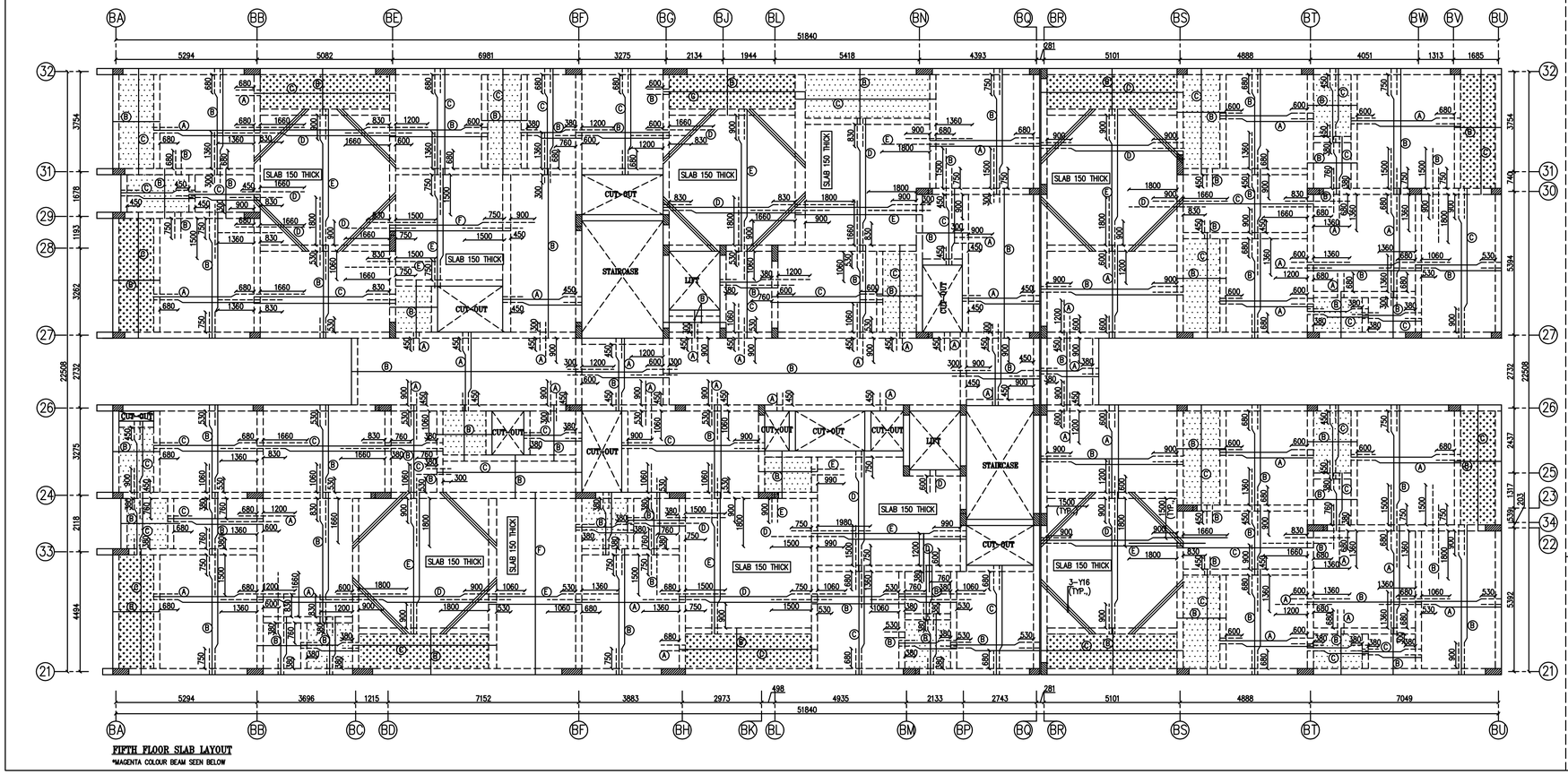
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FIFTH FLOOR BEAM LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW




FIFTH FLOOR SLAB LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW

## FIFTH FLOOR BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |
| 5 | B5 | 230x450 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 100c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 100c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 10 | B10 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 11 | B11 | 230x600 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y20 +<br>2 – Y20 (EXT) +•<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 150c/c<br>2 – Y20 +<br>2 – Y20 (EXT) +•<br>2 – Y16 (EXT)• |
| 13 | B13/ CAB2 | 230x600 | | 4 – Y20 +<br>2 – Y16•<br>Y8 @ 150c/c<br>4 – Y20 |
| 14 | B14 | 230x750 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 15 | B15 | 230x750 | | 4 – Y20<br>Y8 @ 125c/c<br>4 – Y20 +<br>4 – Y16• |
| 16 | B16/ CAB3 | 230x750 | | 4 – Y20 +<br>4 – Y16•<br>Y8 @ 125c/c<br>4 – Y20 |
| 17 | B17 | 300x450 | | 3 – Y25<br>Y10 @ 125c/c<br>5 – Y25 |
| 15 | CB1 | 230x125 | | 6 – Y12<br>Y8 @ 150c/c |
| 16 | CAB1 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |

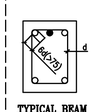
## FIFTH FLOOR SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

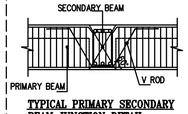
| | |
|---|---|
| A | Y8 : @ : 150 C/C |
| B | Y8 : @ : 175 C/C |
| C | Y8 : @ : 200 C/C |
| D | Y10 : @ : 150 C/C |
| E | Y10 : @ : 175 C/C |
| F | Y10 : @ : 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| SECOND FLOOR | 2 |




TYPICAL BEAM HOOK DETAILS




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

N

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
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9. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
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.

## LEGENDS

- FULL HEIGHT COLUMN
- 230mm SUNKEN
- 100mm SUNKEN
- CONCEALED BEAM
- LIGHT WEIGHT BRICK WALL
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |

**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).

**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.

**NOTE**

*FRONT ELEVATION TO BE DETAIL.

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT:
Morais Architect X.

PROJECT:
Morais Eden Apartment.

TITLE:
Fifth Floor Slab, Beam Layout & Details.

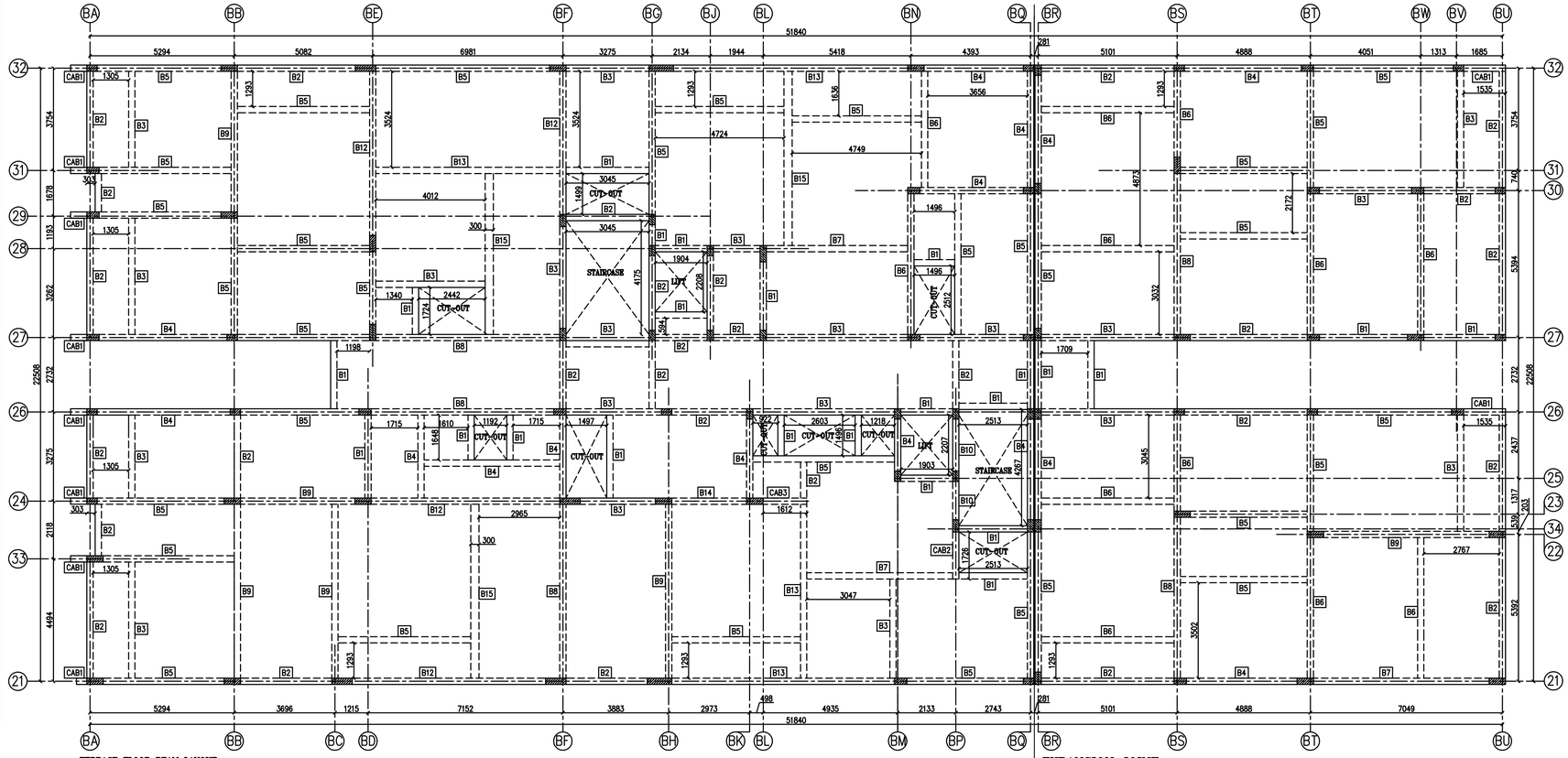
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DWG. NO: MOS-RFS-GFH-BFL-BRD

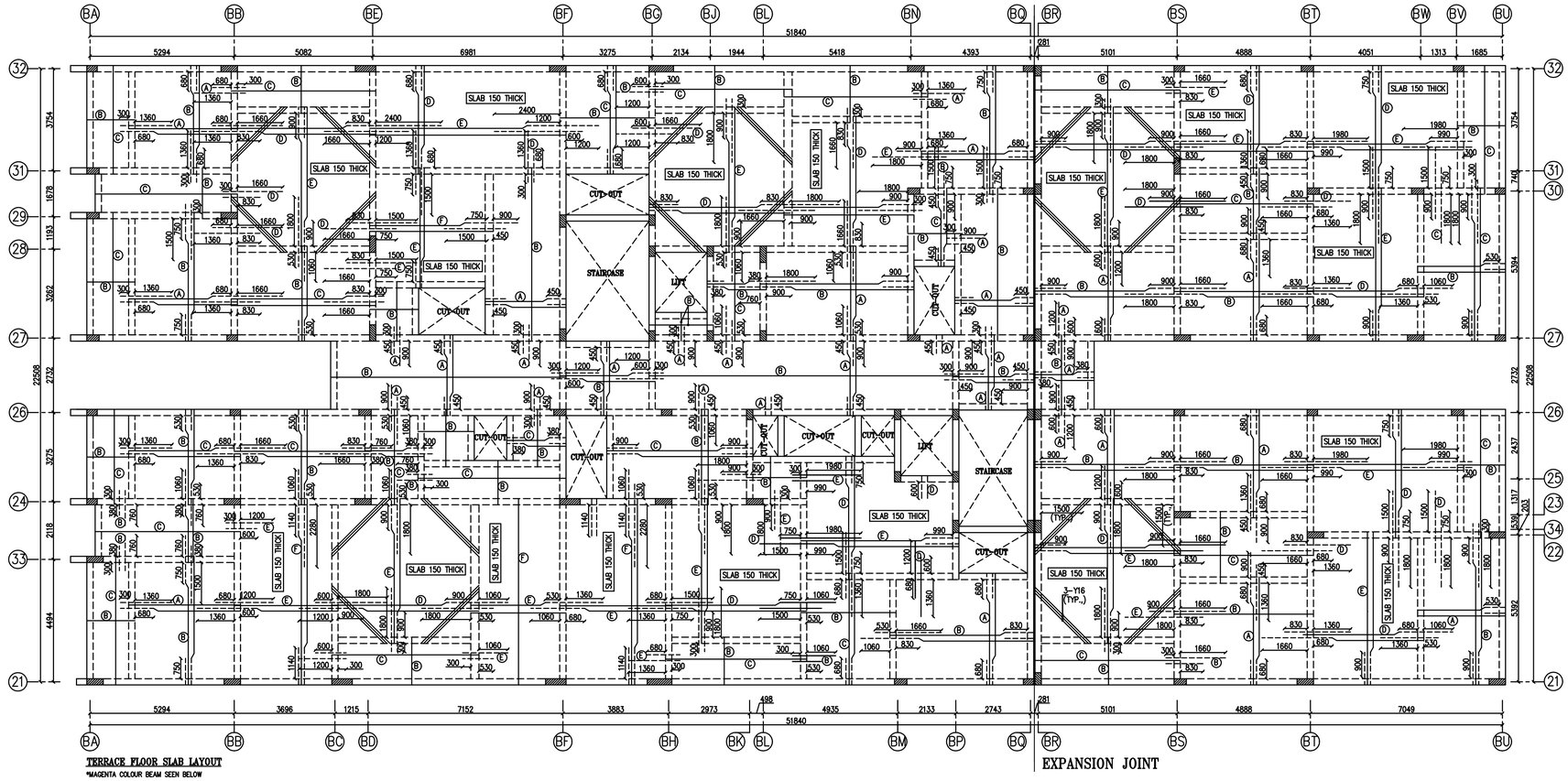
STRUCTURAL CONSULTANT

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**TERRACE FLOOR BEAM LAYOUT**
*MAGENTA COLOUR BEAM SEEN BELOW




**TERRACE FLOOR SLAB LAYOUT**
*MAGENTA COLOUR BEAM SEEN BELOW

## TERRACE FLOOR BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 9 | B9 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 10 | B10/ CAB2 | 230x600 | 4 – Y20<br>Y8 @ 125c/c<br>2 – Y20 +<br>2 – Y16• | |
| 11 | B11 | 230x600 | 2 – Y20 +<br>2 – Y20 (EXT) +•<br>2 – Y16 (EXT) •<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 150c/c<br>2 – Y20 +<br>2 – Y20 (EXT) +•<br>2 – Y16 (EXT) • |
| 12 | B12 | 230x750 | 4 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>4 – Y16 | 4 – Y16<br>Y8 @ 150c/c<br>4 – Y16 +<br>2 – Y16 (EXT)• |
| 13 | B13 | 230x750 | 4 – Y20 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>4 – Y20 | 4 – Y20<br>Y8 @ 150c/c<br>4 – Y20 +<br>2 – Y16 (EXT)• |
| 14 | B14/ CAB3 | 230x750 | 4 – Y20 +<br>2 – Y16•<br>Y8 @ 125c/c<br>4 – Y16 | |
| 15 | B15 | 300x450 | 3 – Y20 +<br>3 – Y20 (EXT)•<br>Y8 @ 150c/c<br>3 – Y20 | 3 – Y20<br>Y8 @ 150c/c<br>3 – Y20 +<br>3 – Y20 (EXT)• |

## TERRACE FLOOR SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | | |
|---|---|---|
| A | Y8 | @ : 150 C/C |
| B | Y8 | @ : 175 C/C |
| C | Y8 | @ : 200 C/C |
| D | Y10 | @ : 150 C/C |
| E | Y10 | @ : 175 C/C |
| F | Y10 | @ : 200 C/C |

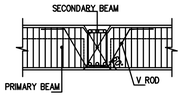
## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| TERRACE FLOOR | 1.5 |

**TYPICAL BEAM HOOK DETAILS**




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




**NOTE**
*FRONT ELEVATION TO BE DETAIL.

N

## 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 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.

## LEGENDS

- ▨ – FULL HEIGHT COLUMN
- ----- – TOP REINFORCEMENT
- ——— – BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |

**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).

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT:
Morais Architect X.

PROJECT:
Morais Eden Apartment.

TITLE:
Terrace Floor Slab, Beam Layout & Details.

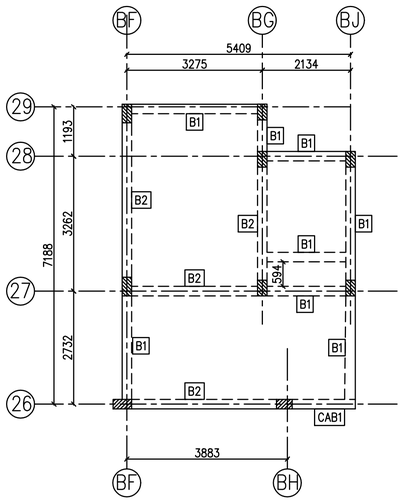
| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
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| JS | SP | SKAK | SKAK | 27.06.26 | A1 | 1:100 |

DWG. NO: MOS/ES/01/BT/TFS/BD

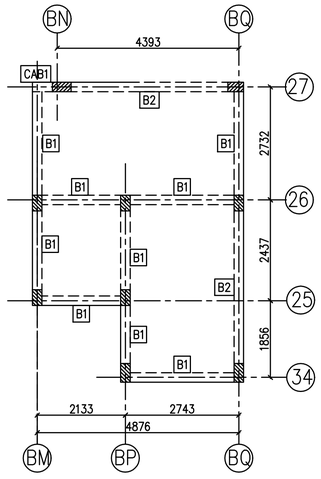
STRUCTURAL CONSULTANT

KAARVENS
Er. S.K.ARUN KAMARAJ, ME (Struct.),
KAARVENS STRUCTURAL CONSULTANCY,
41, BR NAGAR, 3RD STREET,
KOTHARI LAYOUT, RAMANATHAPURAM,
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E-MAIL : skarun@kaarvens.com
WEB : KAARVENS.COM

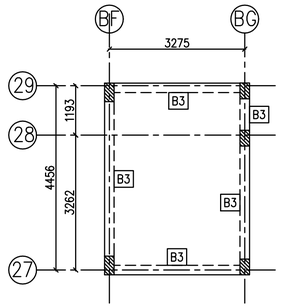
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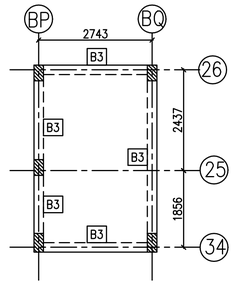

STAIRCASE & LIFT HEAD ROOM BEAM LAYOUT



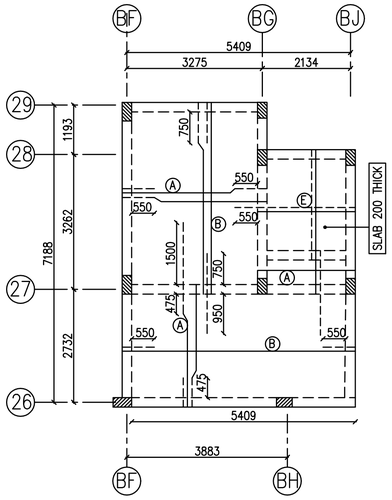

STAIRCASE & LIFT HEAD ROOM BEAM LAYOUT



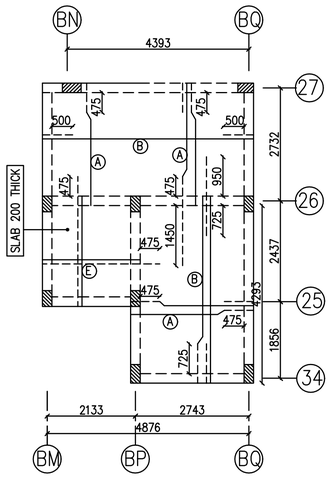

WATER TANK BASE BEAM LAYOUT



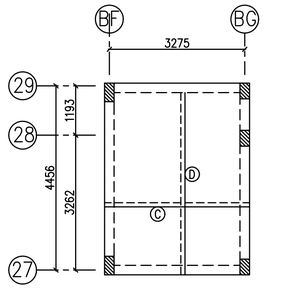

WATER TANK BASE BEAM LAYOUT



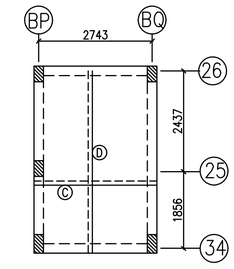

STAIRCASE & LIFT HEAD ROOM SLAB LAYOUT




STAIRCASE & LIFT HEAD ROOM SLAB LAYOUT




WATER TANK BASE SLAB LAYOUT




WATER TANK BASE SLAB LAYOUT

## BEAM DETAILS

| S No | Beam No | Beam Size | BEAM REINFORCEMENT DETAILS |
|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |

## SLAB DETAILS

| THICKNESS :125 (UNLESS NOTED) | |
|---|---|
| A | Y8 : @ : 150 C/C |
| B | Y8 : @ : 175 C/C |
| C | Y10 : @ : 125 C/C |
| D | Y10 : @ : 150 C/C |
| E | Y12 : @ : 100 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| STAIRCASE HEAD ROOM | 0.75 |
| LIFT HEAD ROOM | 5 |

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
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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.
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## LEGENDS

- FULL HEIGHT COLUMN
- – – – – TOP REINFORCEMENT
- ——— BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |

## 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).

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

CLIENT: Morais Architect X.

PROJECT: Morais Eden Apartment.

TITLE: Part Terrace Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A2 | 1:100 |

DWG. NO: MOS-25-04-RC-115-R0

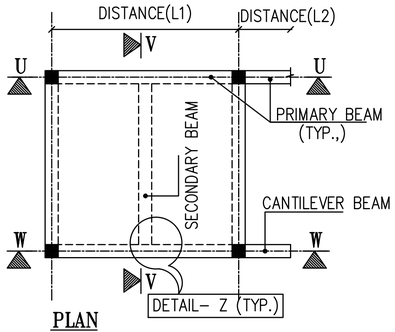
STRUCTURAL CONSULTANT

KAARVENS

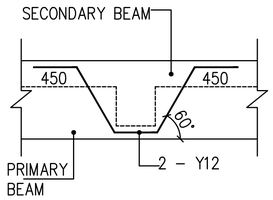
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KOTHARI LAYOUT, RAMANATHAPURAM,
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E-MAIL : skarun@kaarvens.com
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N

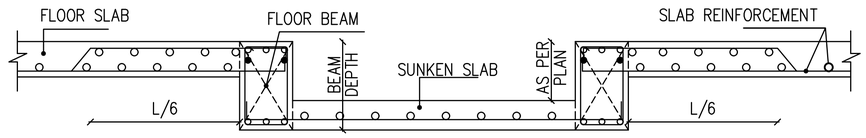
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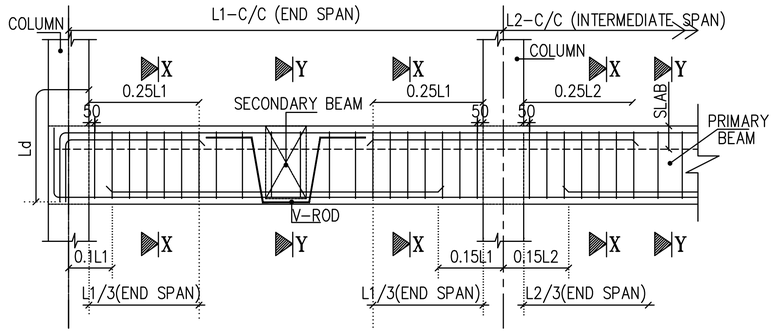

PLAN
(N.T.S)



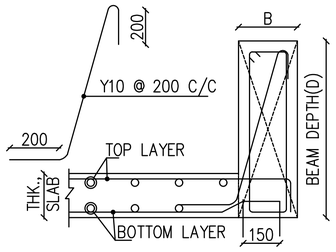

DETAIL – Z
(V-ROD DETAILS)
(N.T.S)



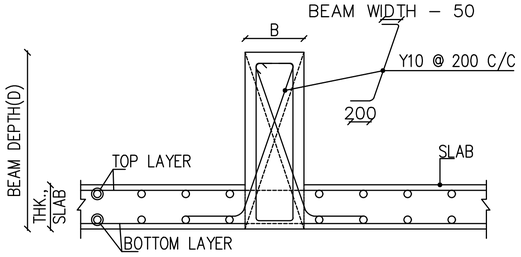

TYPICAL SUNKEN SLAB SECTION
(N.T.S)




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

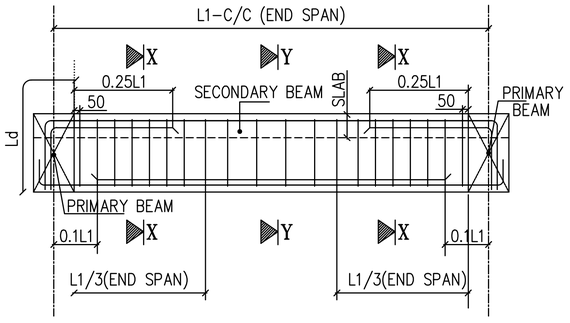



INVERTED BEAM/SUNKEN SLAB WITH
CUT OFF REINFORCEMENT



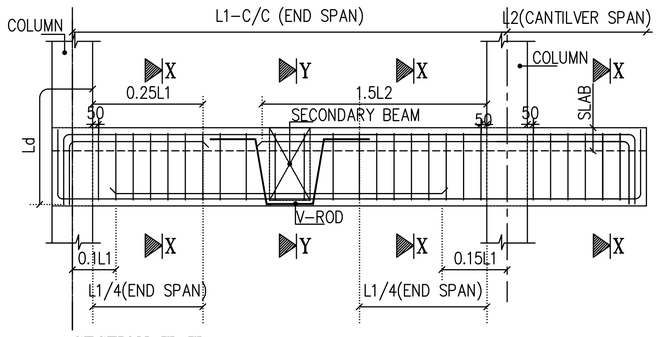

INVERTED BEAM/SUNKEN SLAB WITH
CONTINUOUS SLAB REINFORCEMENT

| ABBREVIATIONS | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| N.T.S | – NOT TO SCALE |




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

**NOTE**
*FOR SECTIONS XX & YY REFER BEAM DETAILS.




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

ONLY FOR REVIEW PURPOSE

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT:
Morais Architect X.

PROJECT:
Morais Eden Apartment.

TITLE:
Typical Roof Beam Sections & Layout.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
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| JS | SP | SKAK | SKAK | 27.06.26 | A2 | 1:100 |

DWG. NO: MOS-25-04-RC-16-R0

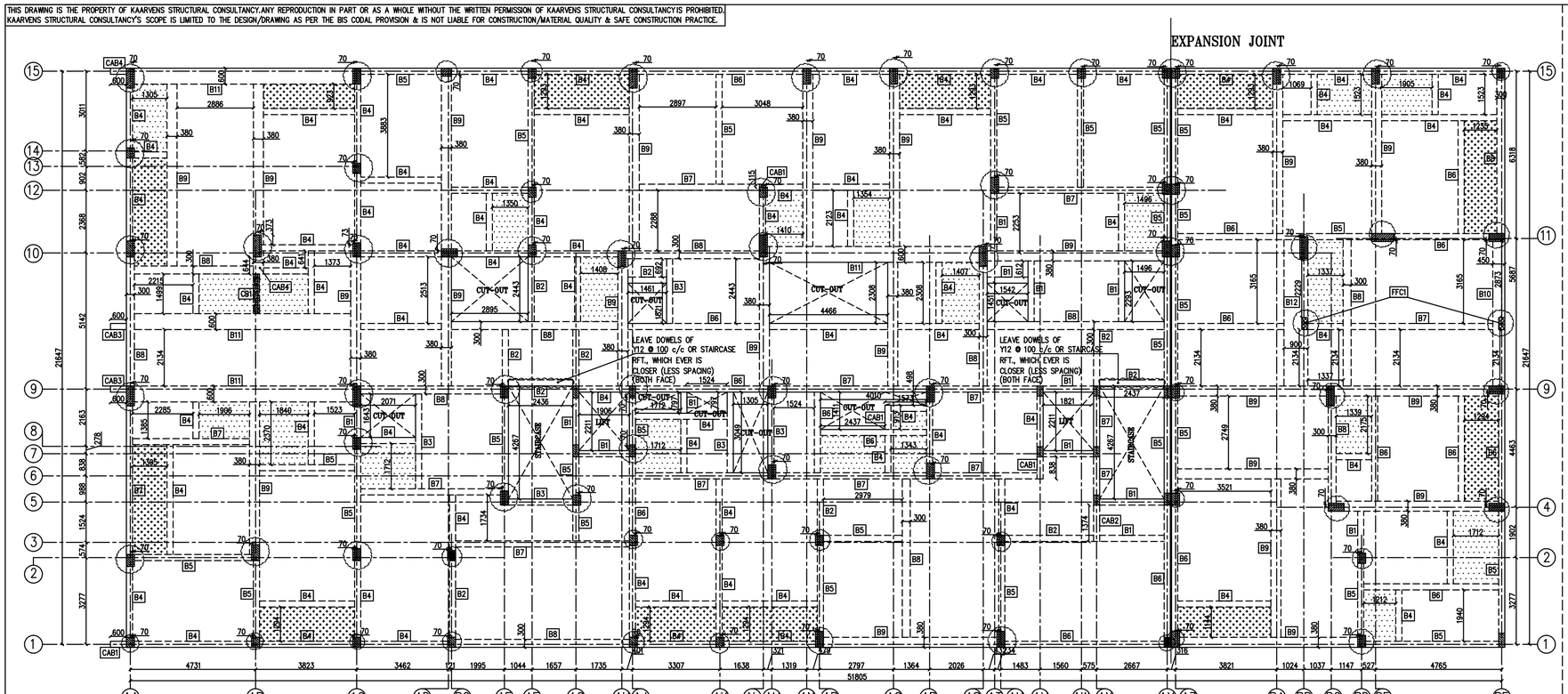
STRUCTURAL CONSULTANT

KAARVENS

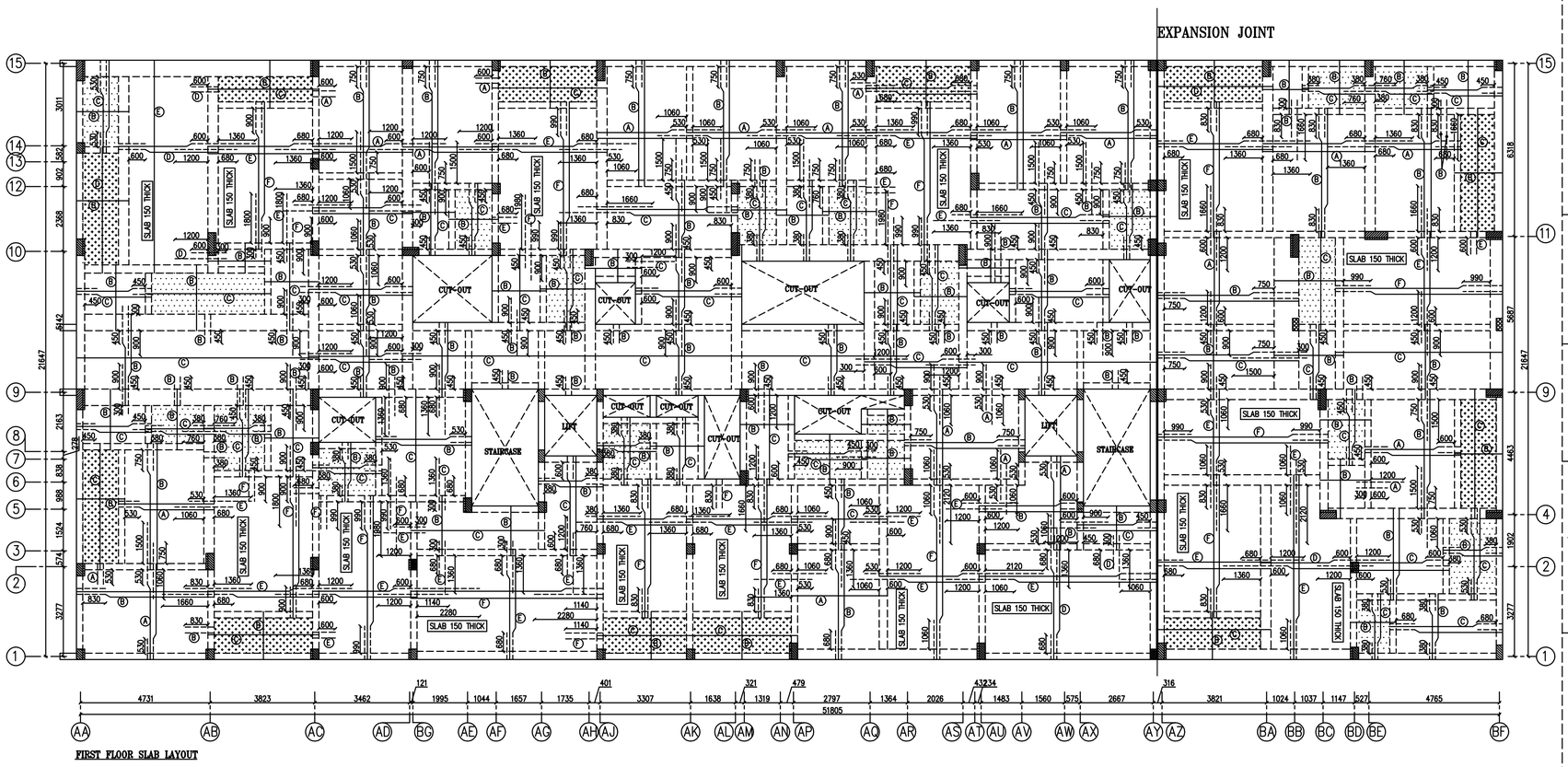
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FIRST FLOOR BEAM LAYOUT




FIRST FLOOR SLAB LAYOUT

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y12 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y12 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 |
| 5 | B5 | 230x450 | | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 4 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>4 – Y16 | 4 – Y16<br>Y8 @ 125c/c<br>4 – Y16 +<br>2 – Y16 (EXT)• |
| 8 | B8 | 300x450 | 2 – Y25 +<br>2 – Y20 (EXT)•<br>Y10 @ 125c/c<br>2 – Y25 | 2 – Y25<br>Y10 @ 125c/c<br>2 – Y25 +<br>2 – Y20 (EXT)• |
| 9 | B9 | 380x450 | 3 – Y25 +<br>3 – Y25 (EXT)•<br>Y10 @ 150c/c<br>3 – Y25 | 3 – Y25<br>Y10 @ 150c/c<br>3 – Y25 +<br>3 – Y25 (EXT)• |
| 10 | B10 | 450x450 | | 8 – Y25<br>Y10 @ 150c/c<br>(4 LEGGED)<br>8 – Y25 |
| 11 | B11 | 600x450 | | 10 – Y25<br>Y10 @ 150c/c<br>(4 LEGGED)<br>10 – Y25 |
| 12 | B12 | 900x450 | | 14 – Y25<br>Y10 @ 150c/c<br>(6 LEGGED)<br>14 – Y25 |
| 13 | CAB2 | 230x450 | | 4 – Y16<br>Y8 @ 150c/c<br>4 – Y16 |
| 14 | CAB3 | 230x450 | | 2 – Y25<br>Y10 @ 125c/c<br>2 – Y25 |
| 15 | CAB4 | 380x450 | | 3 – Y25<br>Y10 @ 125c/c<br>3 – Y25 |
| 16 | CB1 | 230x125 | | 6 – Y12<br>Y8 @ 150c/c |

## FLOATING COLUMN DETAILS

| S No | Column No | Column Size | Column Reinforcement Detail | Rings Detail (R–Ring) | Hooks Detail (H–Hook) | V–Rod |
|---|---|---|---|---|---|---|
| 1 | FFC1 | 230 x 450 | 10 – Y16<br>Y8 @ 150c/c | R=1 | H | 2 – Y16 |

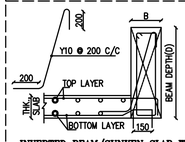
## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | |
|---|---|
| A | Y8 : @ : 150 C/C |
| B | Y8 : @ : 175 C/C |
| C | Y8 : @ : 200 C/C |
| D | Y10 : @ : 150 C/C |
| E | Y10 : @ : 175 C/C |
| F | Y10 : @ : 200 C/C |

## LIVE LOAD SCHEDULE

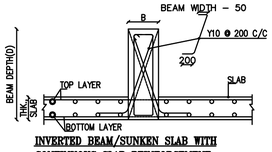
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| FIRST FLOOR | 2 |




INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

**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.




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT

N

## GENERAL NOTES

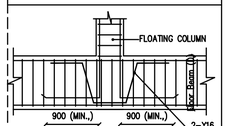
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3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
4. ALL REINFORCEMENT(Y) SHALL BE H.Y.S.D. BARS OF GRADE Fe 550 CONFORMING TO IS:1786.
5. THE CLEAR COVER FOR REINFORCEMENT SHALL BE 12.5mm FOR SLAB, 25mm FOR BEAM & 40mm 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 230mm.
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.

## LEGENDS

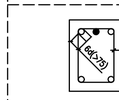
- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- 230mm SUNKEN
- 100mm SUNKEN
- CONCEALED BEAM
- LIGHT WEIGHT BRICK WALL
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

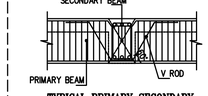
| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| FFC | – FIRST FLOOR FLOATING COLUMN |
| LVL | – LEVEL |
| CB | – CONCEALED BEAM |




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




TYPICAL BEAM HOOK DETAILS




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

**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 | AY–1 | First Floor (Stilt Floor Roof) |

**NOTE**

*FRONT ELEVATION TO BE DETAIL.

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT: Morais Architect X.

PROJECT: Morais Opal Apartment.

TITLE: First Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A1 | 1:100 |

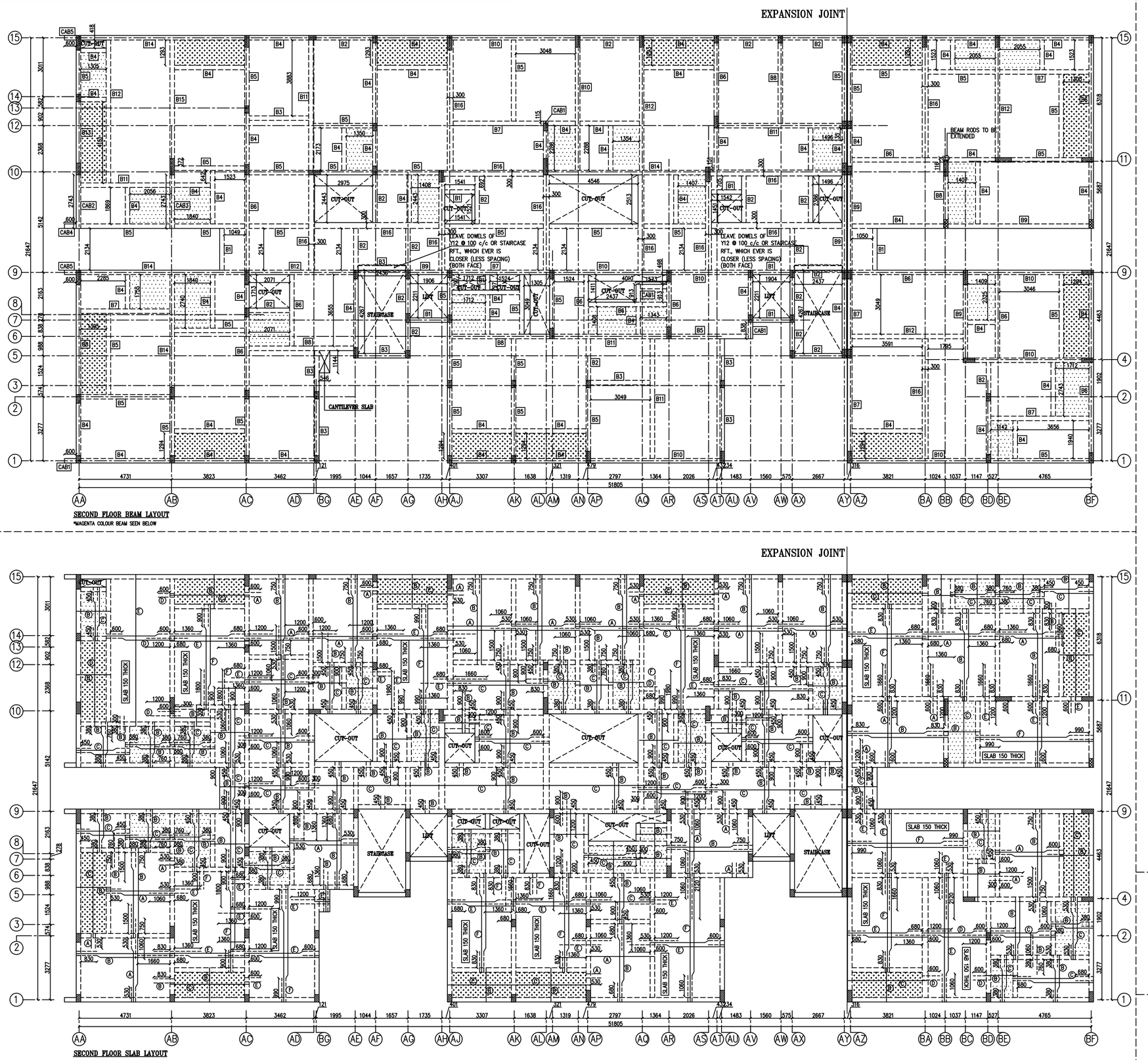
DWG NO: MOS-KS-04-BK-ST-RD

STRUCTURAL CONSULTANT

KAARVENS

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**SECOND FLOOR BEAM LAYOUT**
*MAGENTA COLOUR BEAM SEEN BELOW

**SECOND FLOOR SLAB LAYOUT**
*MAGENTA COLOUR BEAM SEEN BELOW

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5/ CAB4 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 100c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 100c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 10 | B10 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 11 | B11 | 230x600 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 175c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 175c/c<br>2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)• |
| 13 | B13/ CAB2 | 230x600 | 4 – Y20 +<br>2 – Y16 •<br>Y8 @ 125c/c<br>4 – Y20 | |
| 14 | B14 | 230x750 | 2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 125c/c<br>2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)• |
| 15 | B15/ CAB3 | 230x750 | 8 – Y20<br>Y8 @ 125c/c<br>6 – Y20 | |
| 16 | B16 | 300x450 | 3 – Y25<br>Y10 @ 150c/c<br>5 – Y25 | |
| 17 | CAB5 | 230x750 | 2 – Y20<br>Y8 @ 125c/c<br>2 – Y20 | |

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | |
|---|---|
| A | Y8 : @ 150 C/C |
| B | Y8 : @ 175 C/C |
| C | Y8 : @ 200 C/C |
| D | Y10 : @ 150 C/C |
| E | Y10 : @ 175 C/C |
| F | Y10 : @ 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| SECOND FLOOR | 2 |

## 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. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
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.

## LEGENDS

- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- 230mm SUNKEN
- 100mm SUNKEN
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |



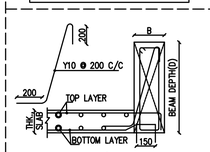

**TYPICAL BEAM HOOK DETAILS**




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

**PRE CAMBERS FOR BEAMS**

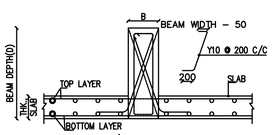
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).




**INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT**

**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.

**NOTE**
*FRONT ELEVATION TO BE DETAIL.




**INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT**

N

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Morais Opal Apartment.

TITLE:
Second Floor Slab, Beam Layout & Details.

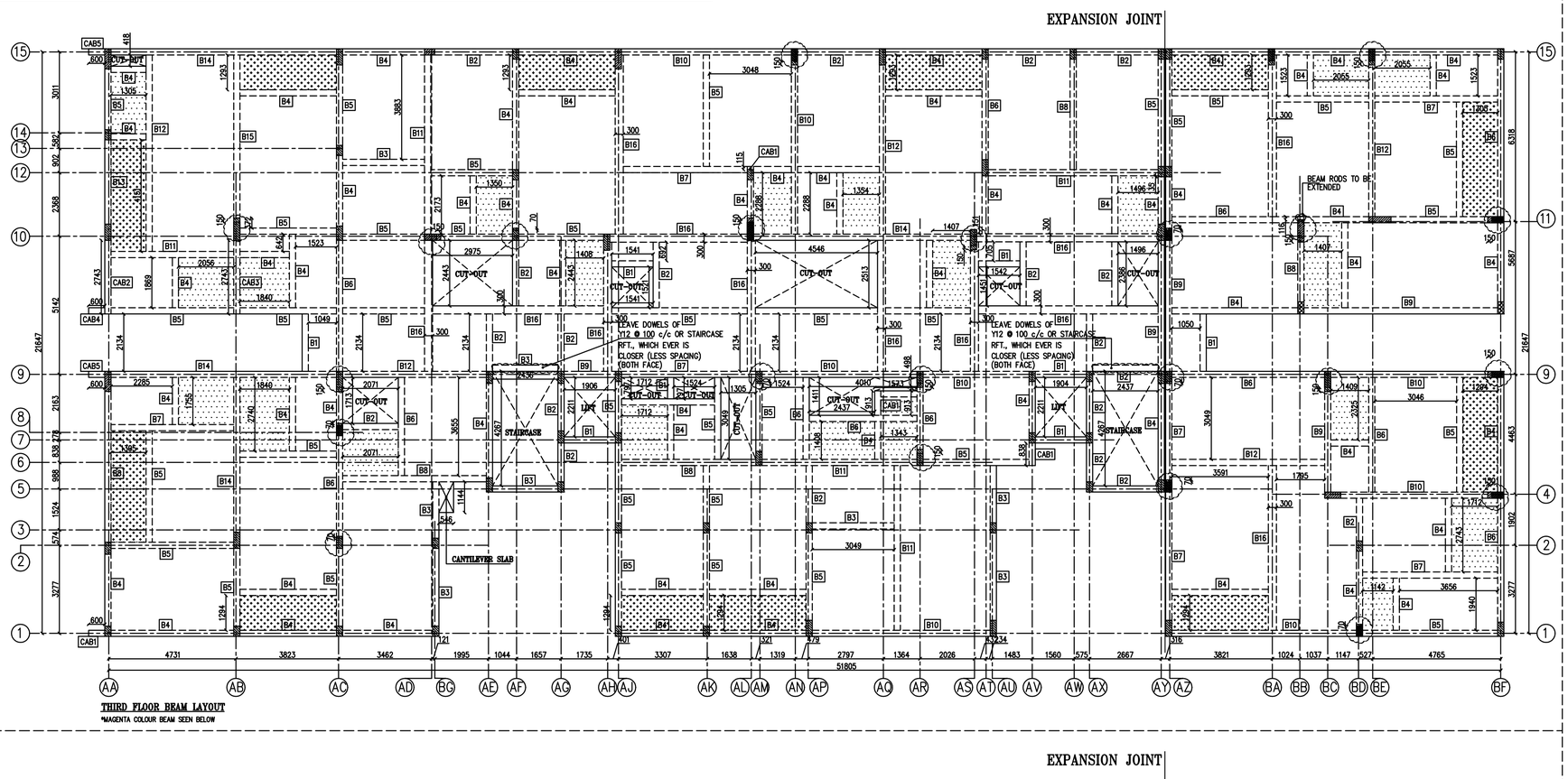
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|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A1 | 1:100 |

DWG. NO: M/01-FS-01-BL-RS-R0

**STRUCTURAL CONSULTANT**

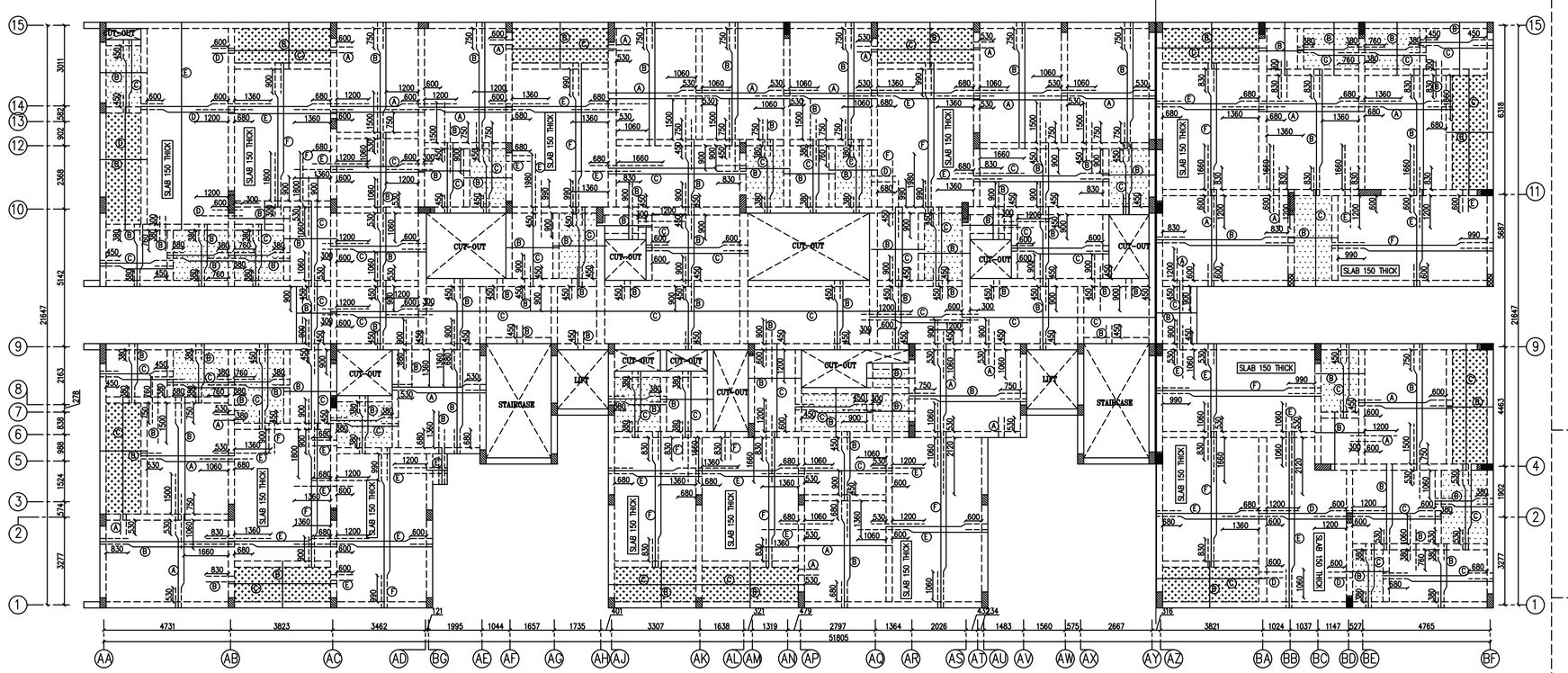
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THIRD FLOOR BEAM LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW




THIRD FLOOR SLAB LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5/ CAB4 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 100c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 100c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 10 | B10 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 11 | B11 | 230x600 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 175c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
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| 14 | B14 | 230x750 | 2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 125c/c<br>2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)• |
| 15 | B15/ CAB3 | 230x750 | 8 – Y20<br>Y8 @ 125c/c<br>6 – Y20 | |
| 16 | B16 | 300x450 | 3 – Y25<br>Y10 @ 150c/c<br>5 – Y25 | |
| 17 | CAB5 | 230x750 | 2 – Y20<br>Y8 @ 125c/c<br>2 – Y20 | |

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | |
|---|---|
| A | Y8 : @ 150 C/C |
| B | Y8 : @ 175 C/C |
| C | Y8 : @ 200 C/C |
| D | Y10 : @ 150 C/C |
| E | Y10 : @ 175 C/C |
| F | Y10 : @ 200 C/C |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| THIRD FLOOR | 2 |

## GENERAL NOTES

1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
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9. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
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.

## LEGENDS

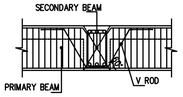
- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- 230mm SUNKEN
- 100mm SUNKEN
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |



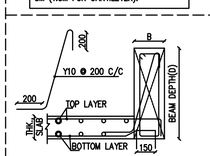

TYPICAL BEAM HOOK DETAILS




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

**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).



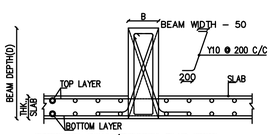

INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

**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.

**NOTE**

*FRONT ELEVATION TO BE DETAIL.




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT

N

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT: Morais Architect X.

PROJECT: Morais Opal Apartment.

TITLE: Third Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A1 | 1:100 |

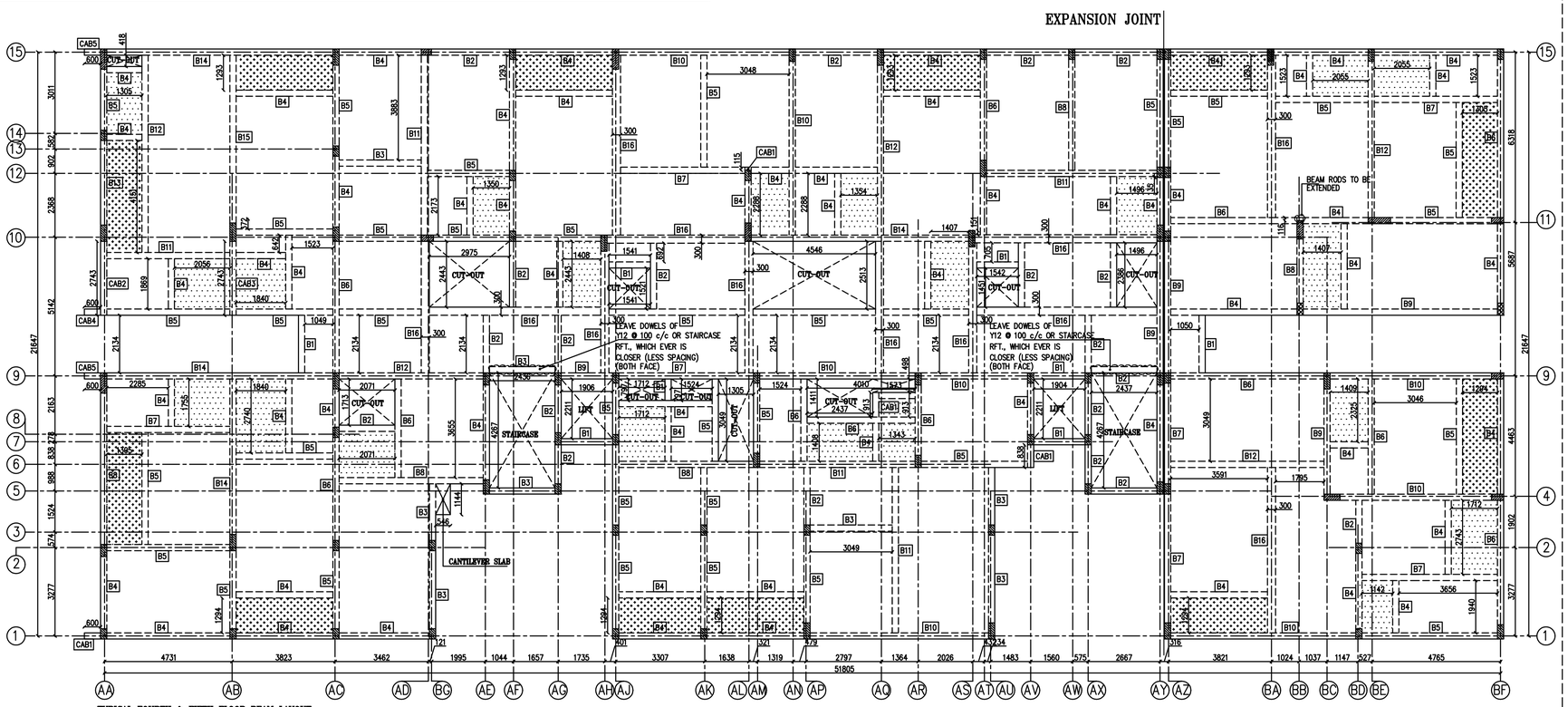
DWG. NO: MOS-PJS-OSI-BKT-ISS-R00

STRUCTURAL CONSULTANT

KAARVENS

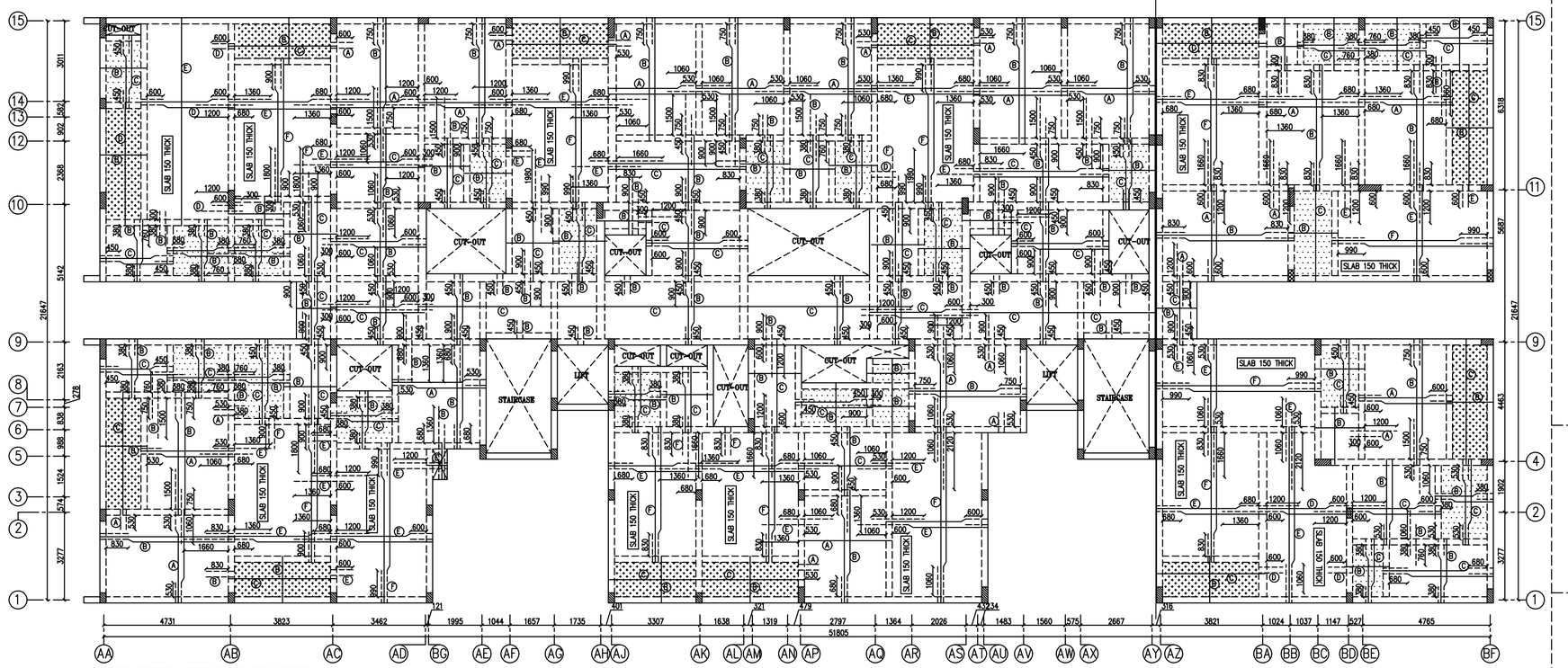
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TYPICAL FOURTH & FIFTH FLOOR BEAM LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW




TYPICAL FOURTH & FIFTH FLOOR SLAB LAYOUT

*MAGENTA COLOUR BEAM SEEN BELOW

## BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)• |
| 4 | B4/ CAB1 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5/ CAB4 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 125c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 100c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 100c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 9 | B9 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)• |
| 10 | B10 | 230x600 | 2 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)• |
| 11 | B11 | 230x600 | 3 – Y16 +<br>3 – Y16 (EXT)•<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 175c/c<br>3 – Y16 +<br>3 – Y16 (EXT)• |
| 12 | B12 | 230x600 | 2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)•<br>Y8 @ 150c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 175c/c<br>2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)• |
| 13 | B13/ CAB2 | 230x600 | 4 – Y20 +<br>2 – Y16 •<br>Y8 @ 125c/c<br>4 – Y20 | |
| 14 | B14 | 230x750 | 2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)•<br>Y8 @ 125c/c<br>2 – Y20 | 2 – Y20<br>Y8 @ 125c/c<br>2 – Y20<br>2 – Y20 (EXT) + •<br>2 – Y16 (EXT)• |
| 15 | B15/ CAB3 | 230x750 | 8 – Y20<br>Y8 @ 125c/c<br>6 – Y20 | |
| 16 | B16 | 300x450 | 3 – Y25<br>Y10 @ 150c/c<br>5 – Y25 | |
| 17 | CAB5 | 230x750 | 2 – Y20<br>Y8 @ 125c/c<br>2 – Y20 | |

## SLAB DETAILS

THICKNESS :125 (UNLESS NOTED)

| | | |
|---|---|---|
| A | Y8 : @ 150 C/C | |
| B | Y8 : @ 175 C/C | |
| C | Y8 : @ 200 C/C | |
| D | Y10 : @ 150 C/C | |
| E | Y10 : @ 175 C/C | |
| F | Y10 : @ 200 C/C | |

## LIVE LOAD SCHEDULE

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| TYPICAL FLOORS (FOURTH & FIFTH) | 2 |

## 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. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
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.

## LEGENDS

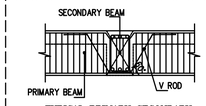
- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- 230mm SUNKEN
- 100mm SUNKEN
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |



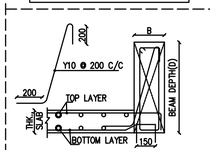

TYPICAL BEAM HOOK DETAILS




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

**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).



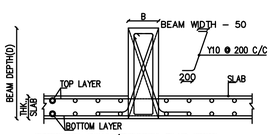

INVERTED BEAM/SUNKEN SLAB WITH CUT OFF REINFORCEMENT

**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.

**NOTE**

*FRONT ELEVATION TO BE DETAIL.




INVERTED BEAM/SUNKEN SLAB WITH CONTINUOUS SLAB REINFORCEMENT

N

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT: Morais Architect X.

PROJECT: Morais Opal Apartment.

TITLE: Typical Fourth & Fifth Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A1 | 1:100 |

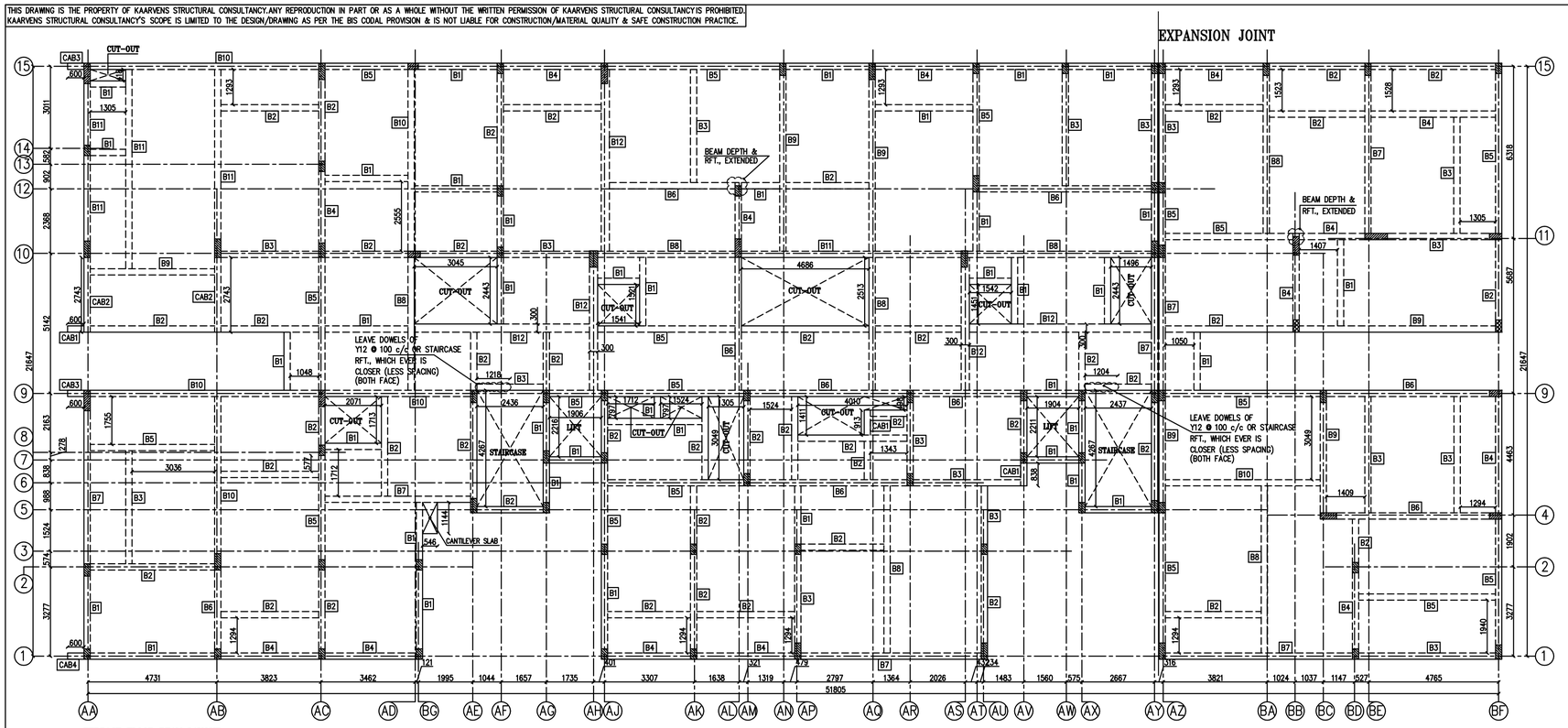
DWG. NO: MOS-STS-GIS-BFL-ISH-R00

STRUCTURAL CONSULTANT

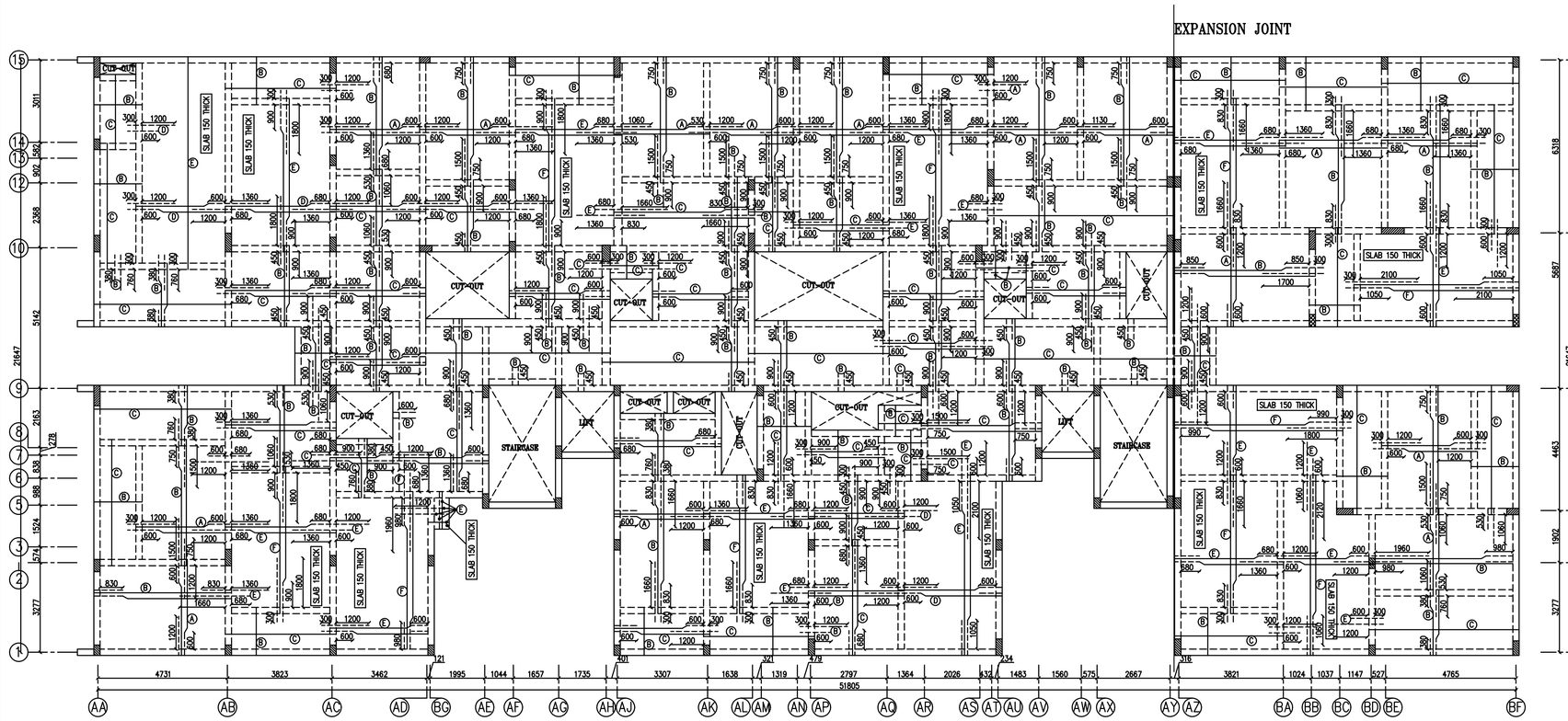
KAARVENS

Er. S.K.ARUN KAMARAJ, ME (Struct.),
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**TERRACE FLOOR BEAM LAYOUT**
*MAGENTA COLOUR BEAM SEEN BELOW




**TERRACE FLOOR SLAB LAYOUT**
*MAGENTA COLOUR BEAM SEEN BELOW

## TERRACE FLOOR BEAM DETAILS

| S No | Beam No | Beam Size | Section @ XX End span | Section @ YY Mid span |
|---|---|---|---|---|
| 1 | B1/ CAB4 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 2 | B2/ CAB1 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 | |
| 3 | B3 | 230x380 | 2 – Y12 +<br>2 – Y16 (EXT)●<br>Y8 @ 150c/c<br>2 – Y12 | 2 – Y12<br>Y8 @ 175c/c<br>2 – Y12 +<br>2 – Y16 (EXT)● |
| 4 | B4 | 230x450 | 2 – Y16<br>Y8 @ 150c/c<br>2 – Y16 | |
| 5 | B5 | 230x450 | 2 – Y16 +<br>2 – Y12 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y12 (EXT)● |
| 6 | B6 | 230x450 | 2 – Y16 +<br>2 – Y16 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)● |
| 7 | B7 | 230x450 | 2 – Y16 +<br>3 – Y16 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>3 – Y16 (EXT)● |
| 8 | B8 | 230x450 | 3 – Y16 +<br>3 – Y16 (EXT)●<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)● |
| 9 | B9 | 230x600 | 2 – Y16 +<br>2 – Y16 (EXT)●<br>Y8 @ 150c/c<br>2 – Y16 | 2 – Y16<br>Y8 @ 175c/c<br>2 – Y16 +<br>2 – Y16 (EXT)● |
| 10 | B10 | 230x600 | 3 – Y16 +<br>3 – Y16 (EXT)●<br>Y8 @ 150c/c<br>3 – Y16 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 +<br>3 – Y16 (EXT)● |
| 11 | B11/ CAB2 | 230x600 | 4 – Y20<br>2 – Y16 (EXT)●<br>Y8 @ 150c/c<br>4 – Y20 +<br>2 – Y16 (EXT)● | |
| 12 | B12 | 300x450 | 3 – Y25 +<br>2 – Y20 (EXT)●<br>Y8 @ 150c/c<br>3 – Y25 | 3 – Y25<br>Y8 @ 150c/c<br>3 – Y25 +<br>3 – Y20 (EXT)● |
| 13 | CAB3 | 230x600 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 | |

**SECONDARY BEAM**
**PRIMARY BEAM**
V_ROD

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

**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).

**SLAB DETAILS**
THICKNESS :125 (UNLESS NOTED)

| | | |
|---|---|---|
| A | Y8 | @ 150 C/C |
| B | Y8 | @ 175 C/C |
| C | Y8 | @ 200 C/C |
| D | Y10 | @ 150 C/C |
| E | Y10 | @ 175 C/C |
| F | Y10 | @ 200 C/C |




**TYPICAL BEAM HOOK DETAILS**

**LIVE LOAD SCHEDULE**

| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| TERRACE FLOOR | 1.5 |

## 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. MINIMUM DEPTH OF SUNKEN SHALL BE 230mm.
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.

## LEGENDS

- FULL HEIGHT COLUMN
- FLOATING COLUMN FROM FIRST FLOOR
- TOP REINFORCEMENT
- BOTTOM REINFORCEMENT

## ABBREVIATIONS

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |

**NOTE**
*FRONT ELEVATION TO BE DETAIL.

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|
| REVISIONS | | | |

CLIENT:
Morais Architect X.

PROJECT:
Morais Opal Apartment.

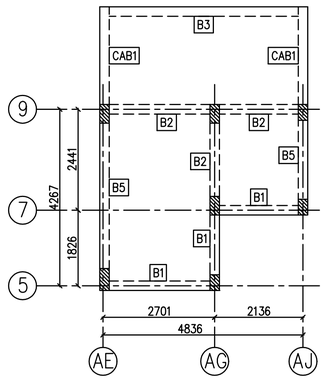
TITLE:
Terrace Floor Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A1 | 1:100 |

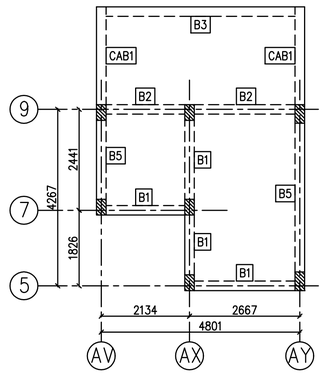
DWG. NO: MOS-STS-GNS-BFL-ISR-RBD

STRUCTURAL CONSULTANT
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M:+91-9894215019, M:+91-8270005019
E-MAIL : skarun@kaarvens.com
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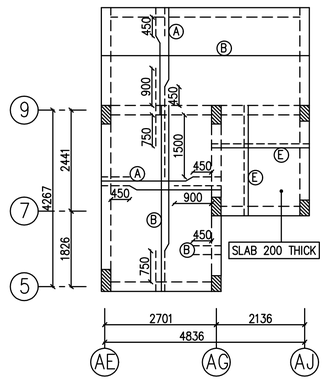
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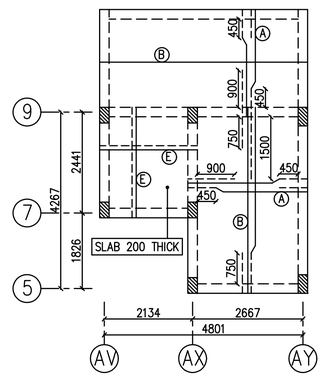

STAIRCASE & LIFT TYPE-1 HEAD ROOM COVER BEAM LAYOUT




STAIRCASE & LIFT TYPE-2 HEAD ROOM COVER BEAM LAYOUT




STAIRCASE & LIFT TYPE-1 HEAD ROOM COVER SLAB LAYOUT




STAIRCASE & LIFT TYPE-2 HEAD ROOM COVER SLAB LAYOUT

## BEAM DETAILS

| S No | Beam No | Beam Size | Beam Reinforcement Details |
|---|---|---|---|
| 1 | B1 | 230x300 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 2 | B2 | 230x380 | 3 – Y12<br>Y8 @ 150c/c<br>3 – Y12 |
| 3 | B3 | 230x450 | 3 – Y16<br>Y8 @ 150c/c<br>3 – Y16 |
| 4 | B4 | 230x450 | 4 – Y16<br>Y10 @ 125c/c<br>4 – Y16 |
| 5 | B5/ CAB1 | 230x600 | 4 – Y16<br>Y10 @ 125c/c<br>4 – Y16 |

## GENERAL NOTES

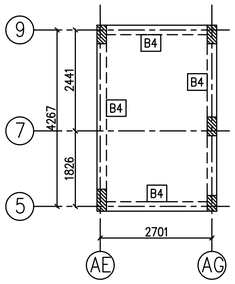
1. THIS DRAWING SHOULD BE READ ALONG WITH ARCHITECTURAL DRAWINGS.
2. ALL DIMENSIONS ARE IN MILLIMETERS.
3. ALL STRUCTURAL CONCRETE SHALL BE OF M25(1:1:2) GRADE CONFORMING TO IS:456.
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7. NOT MORE THAN 50% OF REINFORCEMENT SHALL BE LAPPED AT ANY PARTICULAR JUNCTION.
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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.

## LEGENDS

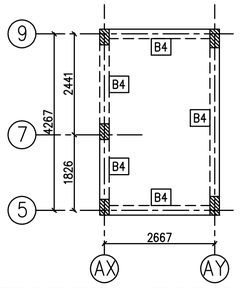
- – FULL HEIGHT COLUMN
- – FLOATING COLUMN FROM FIRST FLOOR
- – – – – TOP REINFORCEMENT
- ——— BOTTOM REINFORCEMENT

## ABBREVIATIONS

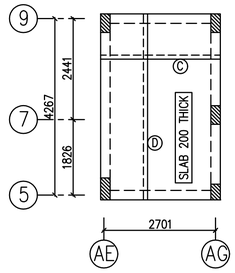
| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| CAB | – CANTILEVER BEAM |
| N.T.S | – NOT TO SCALE |
| LVL | – LEVEL |



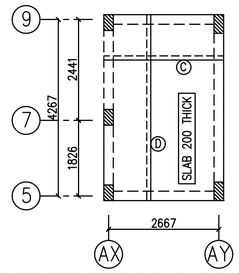

WATER TANK TYPE-1 BASE SLAB BEAM LAYOUT
(WATER TANK IS PLACED 900mm ABOVE HEAD ROOM COVER SLAB)




WATER TANK TYPE-2 BASE SLAB BEAM LAYOUT
(WATER TANK IS PLACED 900mm ABOVE HEAD ROOM COVER SLAB)




WATER TANK TYPE-1 BASE SLAB LAYOUT
(WATER TANK IS PLACED 900mm ABOVE HEAD ROOM COVER SLAB)




WATER TANK TYPE-2 BASE SLAB LAYOUT
(WATER TANK IS PLACED 900mm ABOVE HEAD ROOM COVER SLAB)

## LIVE LOAD SCHEDULE

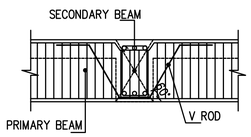
| DESCRIPTION | LIVE LOAD (kN/m²) |
|---|---|
| STAIRCASE HEAD ROOM | 0.75 |
| LIFT HEAD ROOM | 5 |

## PRE CAMBERS FOR BEAMS

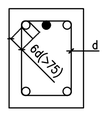
PRE CAMBERS OF 0.4% OF THE SPAN BE PROVIDED FOR ALL HORIZONTAL STRUCTURAL MEMBERS SPAN EXCEEDING 5M (1.5M FOR CANTILEVER).

## SLAB DETAILS

| THICKNESS :125 (UNLESS NOTED) | | |
|---|---|---|
| A | Y8 | @ : 175 C/C |
| B | Y8 | @ : 200 C/C |
| C | Y10 | @ : 125 C/C |
| D | Y10 | @ : 150 C/C |
| E | Y12 | @ : 100 C/C |




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




TYPICAL BEAM HOOK DETAILS

ONLY FOR REVIEW PURPOSE

| REF | DESCRIPTION | BY | DATE |
|---|---|---|---|

REVISIONS

CLIENT:
Morais Architect X.

PROJECT:
Morais Opal Apartment.

TITLE:
Staircase, Lift Head Room and Water Tank Base Slab, Beam Layout & Details.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A2 | 1:100 |

DWG. NO: MOIS-25I-05I-IRC-516-IR0

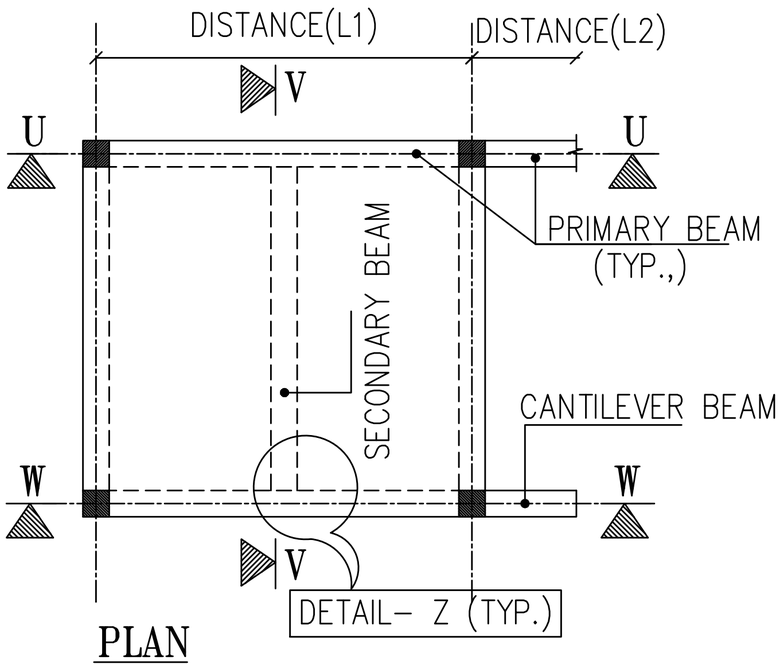
STRUCTURAL CONSULTANT

KAARVENS

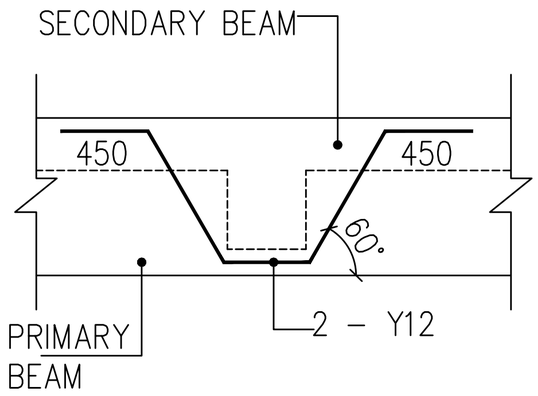
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N

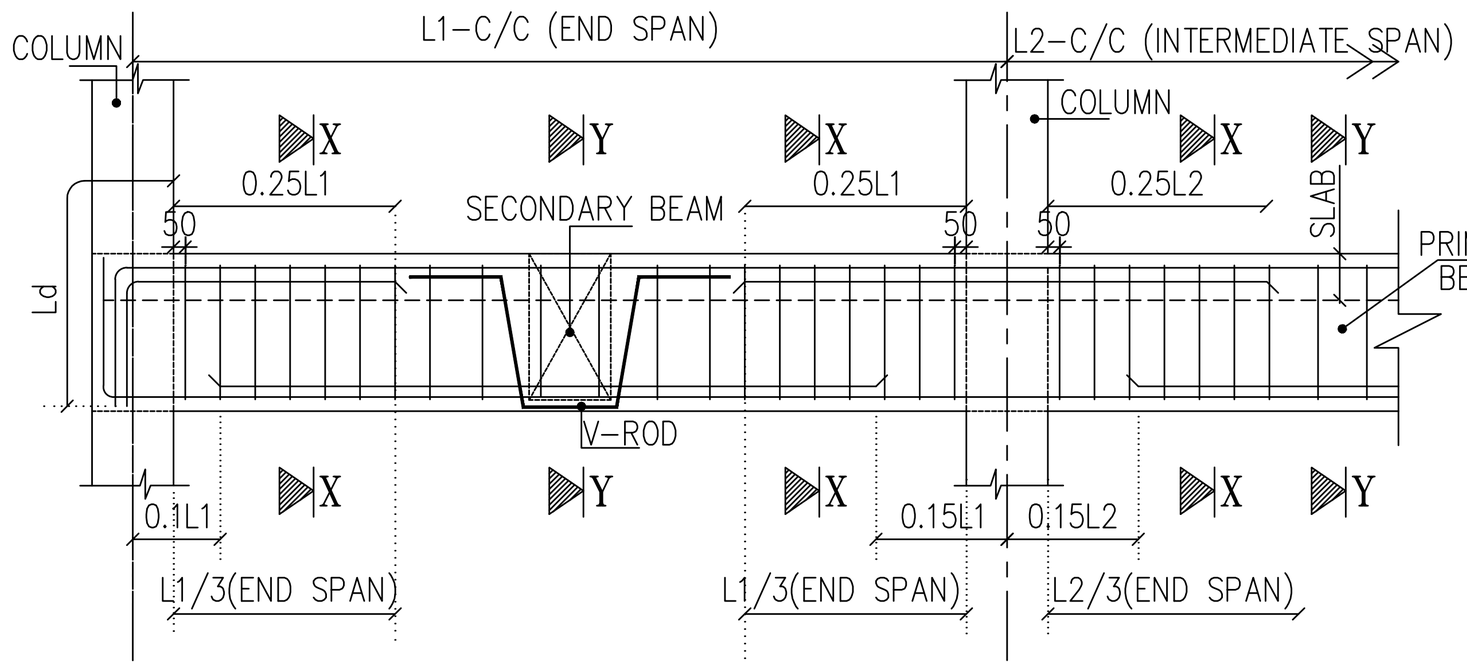
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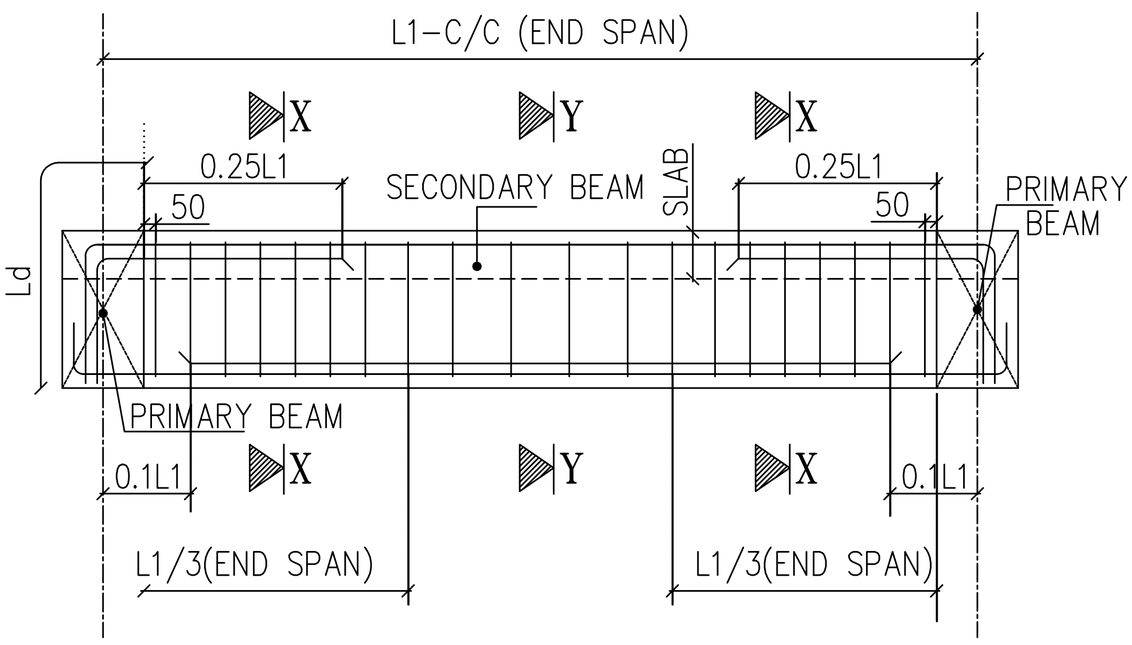

**PLAN**
(N.T.S)



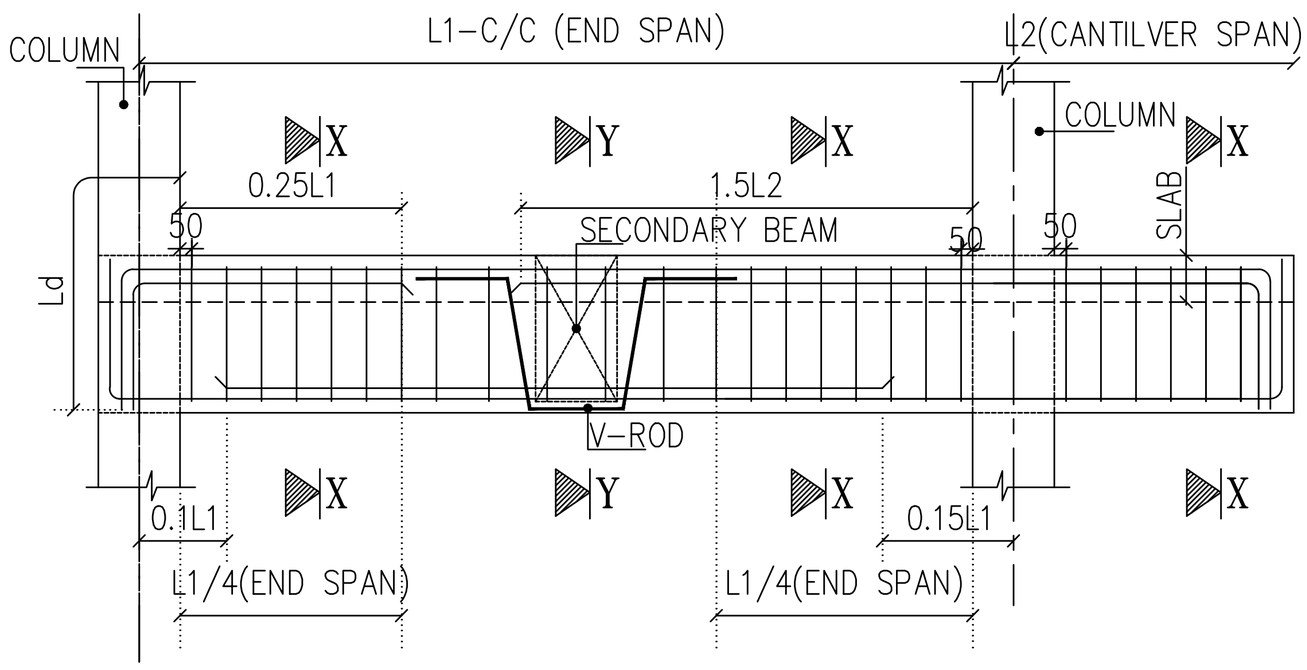

**DETAIL – Z**
**(V–ROD DETAILS)**
(N.T.S)



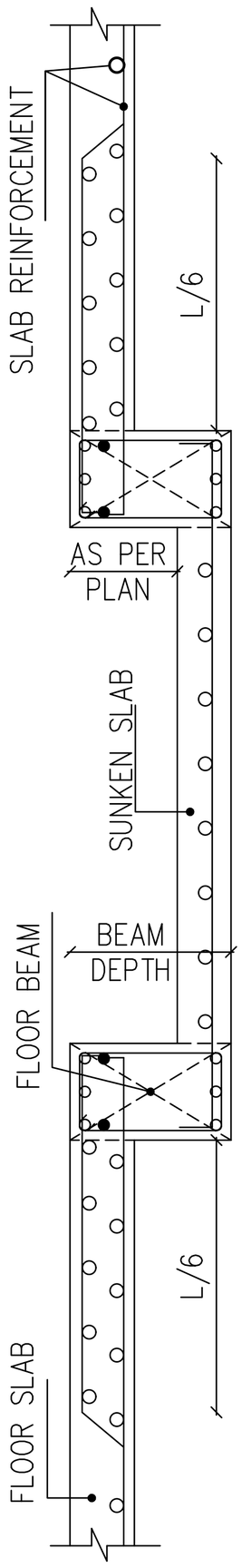

**SECTION U–U**
**TYPICAL BEAM SECTION**
(N.T.S)




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




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




**TYPICAL SUNKEN SLAB SECTION**
(N.T.S)

**ABBREVIATIONS**

| | |
|---|---|
| Ld | – DEVELOPMENT LENGTH |
| N.T.S | – NOT TO SCALE |

**NOTE**
*FOR SECTIONS XX & YY REFER BEAM DETAILS.

ONLY FOR REVIEW PURPOSE

| REF. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | REVISIONS | | |

CLIENT:
Morais Architect X.

PROJECT:
Morais Opal Apartment.

TITLE:
Typical Roof Beam Sections and Layout.

| DSGN | DRWN | CHKD | APPD | DATE | SHEET | SCALE |
|---|---|---|---|---|---|---|
| JS | SP | SKAK | SKAK | 27.06.26 | A4 | 1:100 |

DWG. NO: MOS-25-05-RC-57-R0

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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

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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.