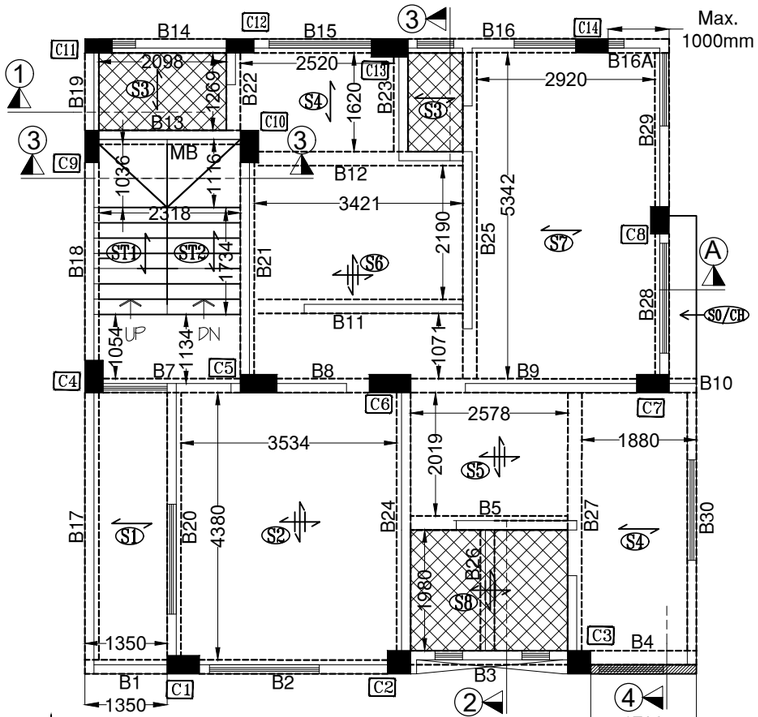
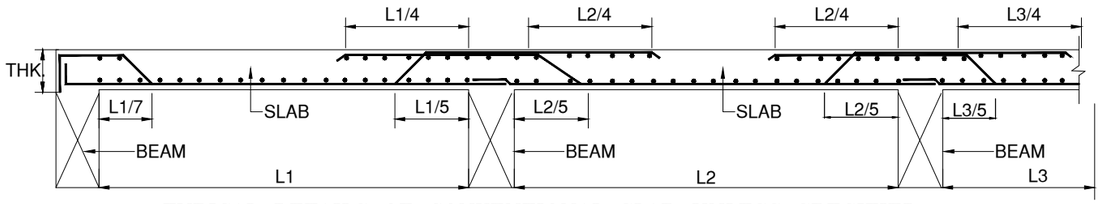



## INDEX PLAN FOR RCC SECOND FLOOR SLAB & BEAM

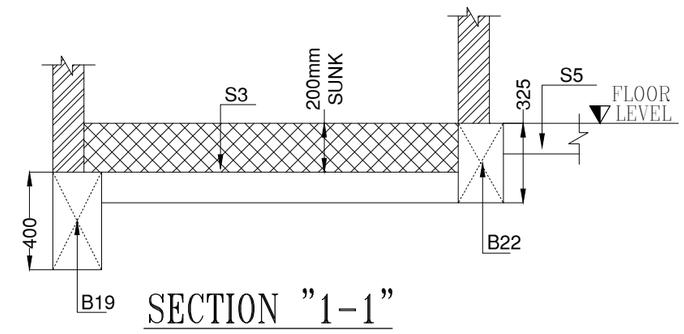
LEGEND :- - 150mm SUNK - SIDEWISE LUMP

## R.C.C. SLABS SCHEDULE

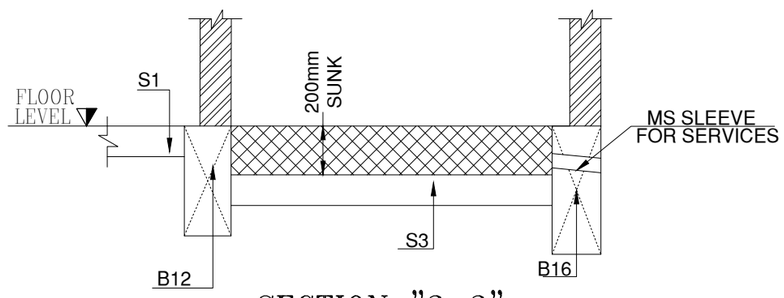
| TYPE | THICKNESS | STEEL ALONG SPAN ↕ | STEEL ACROSS SPAN ↔ | REMARKS |
|---|---|---|---|---|
| ST1,ST2 | 165 | T10 @ 100 C/C ALT BENT UP | T8 @ 200 C/C DIST. | SCISSOR JOINT.@ RESP UPPER LANDING |
| AST1 | 175 | T12 @ 115 C/C ALT BENT UP | T8 @ 200 C/C DIST. | SCISSOR JOINT.@ RESP UPPER LANDING |
| S1 | 125 | T8 @ 165 C/C ALL STR | T8 @ 200 C/C DIST. | ONE WAY SLAB |
| S2 | 125 | T8 @ 150 C/C ALT BENT UP | T8 @ 175 C/C ALT BENT UP | TWO WAY SLAB |
| S3 | 125 | T8 @ 100 C/C ALL STR. | T8 @ 200 C/C DIST. | ONE WAY SLAB SUNK BY 200mm |
| S4 | 125 | T8 @ 165 C/C ALT BENT UP | T8 @ 200 C/C DIST. | ONE WAY SLAB |
| S5 | 125 | T8 @ 165 C/C ALT BENT UP | T8 @ 175 C/C ALT BENT UP | TWO WAY SLAB |
| S6 | 125 | T8 @ 150 C/C ALT BENT UP | T8 @ 150 C/C ALT BENT UP | TWO WAY SLAB |
| S7 | 125 | T8 @ 150 C/C ALT BENT UP | T8 @ 200 C/C DIST. | ONE WAY SLAB |
| S8 | 150 | T10 @ 150 C/C ALT BENT UP | T10 @ 175 C/C ALT BENT UP | TWO WAY SLAB SUNK BY 200mm |
| S0 | 125 | T8 @ 150 @ TOP,EVERY ALT BAR BENT BACK ALONG BTM | T8 @ 150 C/C DIST. | CANTILEVER SLAB @ FLOOR LEVEL |
| CH | 125 | T8 @ 150 @ TOP,EVERY ALT BAR BENT BACK ALONG BTM | T8 @ 150 C/C DIST. | CANTILEVER SLAB @ BEAM BTM. LEVEL |



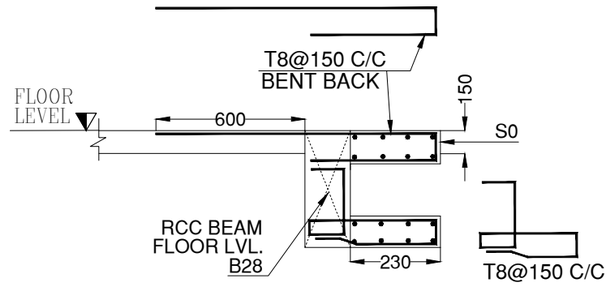

## TYPICAL DETAILS OF CONVENTIONAL SLAB UNLESS SPECIFIED



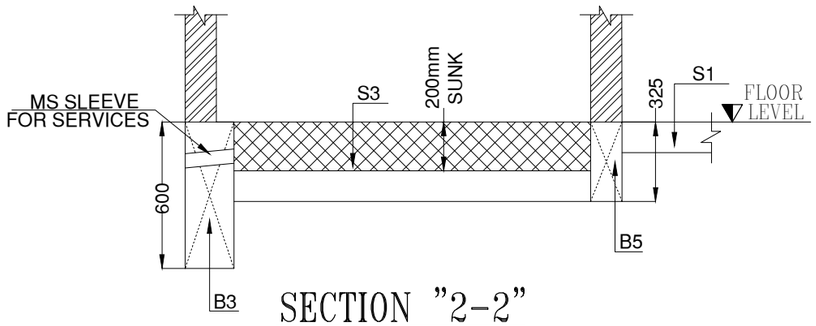

## SECTION "1-1"



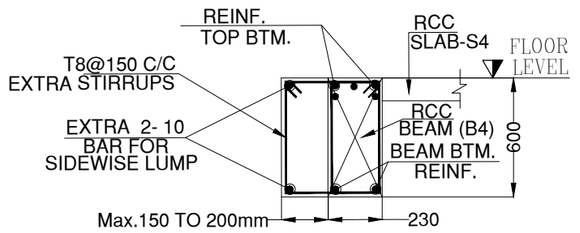

## SECTION "3-3"




## SECTION "A-A"




## SECTION "2-2"




## TYPICAL DETAILS OF SIDEWISE LUMP SECTION "4-4"

A3/1/3

(REFERENCE NOTES FROM IS 456: 2000)

1. ALL DIMENSIONS ARE IN 'mm' AND ALL LEVELS TO BE REFERRED FROM ARCHITECTURAL DRAWINGS.
2. CENTER LINE PLAN SHOULD BE CHECKED BY THE ARCH. REFER ARCHITECT'S DRAWING FOR ALL OTHER DETAILS & DIMENSIONS.
3. NOMINAL COVERS

| EXPOSURE CONDITION | Mild | Moderate |
|---|---|---|
| I FOOTINGS | 50 | 50 |
| II COLUMNS & WALLS (TO LINKS OF COLUMN) | 40 | 40 |
| III SLABS | 20 | 30 |
| IV BEAMS (TO STIRRUPS OF BEAM) | 20 | 30 |

4. LAPPING OF REINFORCEMENT:- DEVELOPMENT LENGTH (Ld)

| GRADE OF REINF. | M20 | M25 | M30 | M35 | M40 & ABOVE |
|---|---|---|---|---|---|
| Fe415 | 48 X D | 41 X D | 38 X D | 34 X D | 30 X D |
| Fe500 (TMT) | 57 X D | 49 X D | 46 X D | 40 X D | 36 X D |

5. REFER STANDARD DRAWING'S FOR LAP LOCATIONS TO BARS IN BEAMS AND COLUMNS.
6. IF UNAVOIDABLE,REINF. LAPS FOR BEAMS AND SLABS SHALL BE STAGGERED WITH NOT MORE THAN 50%OF THE BARS SPECIFIED AT A SECTION.
7. FOR CANTILEVERS (SLAB or BEAM), TOP BARS TO BE ANCHORED BEHIND FOR 75xDIA OR SPAN WHICHEVER IS GREATER.
8. LINKS IN COLUMN AT COLUMN-BEAM JUNCTION ARE NECESSARY.
9. WHENEVER THE DIMENTION OF COLUMN GETS REDUCED, TIE BEAM OR PLINTH BEAM IS NECESSARY IN THE SAME DIRECTION.
10. FIRE RATING CONSIDERED:- 1 Hour Maximum
11. ALL STRUCTURAL CONCRETE SHOULD BE WEIGH BATCHED, MACHINE MIXED & MECHANICALLY VIBRATED.
12. MINIMUM PERIOD FOR REMOVAL OF FORMWORK,

| VERTICAL FROMWORK TO COLUMN WALLS | 18 HOURS. |
|---|---|
| SOFFIT OF SLAB (UP TO 4.5 M.SPAN) | 7 DAYS. |
| SOFFIT OF SLAB (OVER 4.5 M. SPAN) | 14 DAYS. |
| BEAM BOTTOM (UP TO 6.0 M.SPAN) | 14 DAYS. |
| BEAM BOTTOMS (OVER 6.0 M.SPAN) | 21 DAYS. |

*# IF PROPS TO BE REFIXED IMMEDIATELY AFTER REMOVAL OF FORM WARK,*

| SOFFIT OF SLAB | 3 DAYS. |
|---|---|
| BEAM BOTTOM | 7 DAYS. |

NOTES:-

*# ONLY THE DRAWINGS WITH THE STAMP/SEAL AND SIGN OF SHOULD BE CONSIDERED AS AUTHENTIC G.F.C DRAWINGS.*

*# AFTER UNDERSTANDING THE ABOVE NOTES, DETAILS THE LICENSED SUPERVISING ENGINEER AND CONTRACTOR SHALL COMPLY WITH THE SAME, BEFORE CONCRETING.THEY ARE ALSO RESPONSIBLE FOR THE FULL SAFETY OF SHUTTERING, CENTERING PROPS, CONCRETING, EXECUTION, SUPERVISION, WORKMANSHIP, QUALITY OF MATERIAL AND OTHER CONSTRUCTION PROCEDURES.*

*# RESPONSIBILITY REGARDING CORRECT & SOUND CONSTRUCTION ,SHUTTERING SHALL SOLELY REST WITH CONTRACTOR/ OWNER FOLLOWING GUIDELINE MAY BE USED FOR STRIPPING OF FORMS IN NORMAL CIRCUMSTANCES.*

*# WE SHALL NOT BE RESPONSIBLE AGAINST ANY ACCIDENTS AND FAILURES BECAUSE OF DEFECTIVE SHUTTERING, DEFECTIVE CONSTRUCTION PROCEDURE, ANY ADDITION AND / OR ALTERATION OR ANY DAMAGE TO THE STRUCTURAL FRAME WHICH IS CAUSED BY ACCIDENT ON SITE OR BY TAMPERING WITH THE GEOMETRICAL SECTIONS OF STRUCTURAL MEMBERS FOR ANY PURPOSE WHATSOEVER OR DUE TO OVERLOADING OF THE STRUCTURE OR LACK OF MAINTENANCE.*

DESIGN CONSIDERATIONS:

| | |
|---|---|
| DESIGN VALID ONLY FOR:- | GROUND + 3 FLOOR ONLY |
| SAFE BEARING CAPACITY OF SOIL:- # STRATA SHOULD BE CONFIRMED AS PER SOIL INVESTIGATION REPORT | 35 T/m2 |
| GRADE OF CONCRETE:- | M25 |
| GRADE OF STEEL | Fe 500 |
| EXPOSURE CONDITION:- | MILD |
| DESIGNED LIVE LOAD:- | 2 Kn/sq.m |

| NO. REV. | DATE | DRAWN BY | CHECKED BY | DESCRIPTION OF THE REVISIONS |
|---|---|---|---|---|
| R0 | 23.04.21 | M.M. | M.M | ADVANCE COPY FOR APPROVAL |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

PURPOSE OF RELEASE

ADVANCE COPY FOR TENDERING PURPOSE

NAME OF CLIENT/OWNER/DEVELOPER:

MR.MANOJ PRAKASH SATHE

NAME OF PROJECT:

Proposed Residential building @S.No - 38/2/2(P), Plot No-31, Village - Kharadi, Pune-411014

PROJECT ARCHITECT:

AR.DHARAMPAL GAWADE

DRAWING TITLE:

INDEX PLAN FOR RCC SECOND FLOOR SLAB AND BEAM

| | | | |
|---|---|---|---|
| DRAWN BY: | V.S | DESIGNED BY: | M.M |
| CHECKED BY: | M.M. | DATE: | 23.04.2021 |
| DRAWING NO & REVISION: | 2020/10/RC-SFS&B/R0 | | |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