

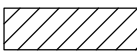

KEY PLAN FOR FOOTINGS AND COLUMN

BUILDING IS DESIGN FOR G+2 ONLY

GRADE OF CONCRETE - M25

GRADE OF STEEL - FE 500

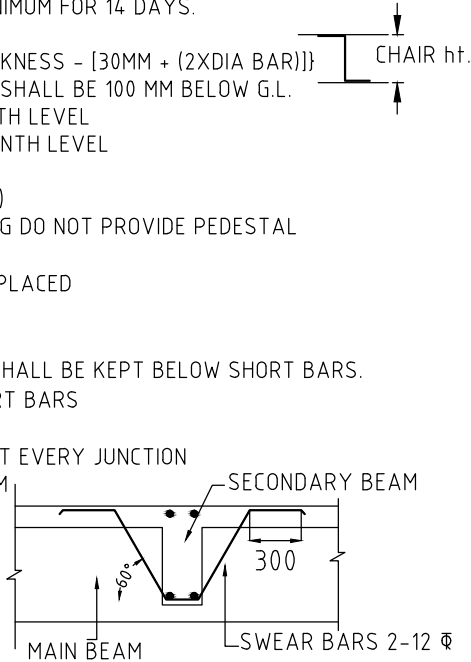
ICAI  
(FOOTING AND COLUMN DETAILS)

- (1)  RCC LIFT WALL UPTO GROUND FLOOR SLAB LVL.
- (2)  "SC" COLUMN UP TO PLINTH LVL.

FOR DIMENSIONS, LEVELS, CENTERLINE AND GENERAL ARRANGMENT REFER ARCHITECTURAL DRAWING.

1] CONSULTANT COPY 2] CLIENT'S COPY 3] SITE COPY 4] OFFICE COPY

- NOTE:-
- 1] ALL DIMENSIONS ARE IN FEET INCHES.
  - 2] S.B.C. OF THE SOIL IS ASSUMED AS 180kN/SQ.M. AND SHALL BE VERIFIED AT SITE BY SITE ENGINEER.
  - 3] MIN DEPTH OF FOUNDATION SHOULD BE 10 FEET BELOW N. G. LEVEL
  - 4] USE M25 GRADE OF CONCRETE.
  - 5] DENSITY OF BRICK ASSUME TO BE 850 KG/M<sup>3</sup>.
  - 6] ALL STRUCTURAL STEEL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORM BARS OF GRADE FE 500 CONFORMING TO IS 1786-1985 & MILD STEEL GRADE I CONFORMING TO IS 432-1982 (PART 1)
  - 7] PROVIDE CLEAR COVER OF 50 mm FOR FOOTING R/F.
  - 8] PROVIDE CLEAR COVER OF 40 mm FOR COLUMN R/F.
  - 9] PROVIDE CLEAR COVER OF 25 mm FOR BEAM R/F AND 15 MM FOR SLAB R/F
  - 10] NOT MORE THAN 50 % BARS SHOULD BE LAPPED AT ONE SECTION.
  - 11] EXECUTION SHALL BE AS PER IS 456-2000.
  - 12] FOR DIMENSIONS, LEVELS, CENTERLINE AND GENERAL ARRANGMENT REFER ARCHITECTURAL DRAWING.
  - 13] ALL BARS SHOULD BE EXTENDED UPTO DEVELOPMENT LENGTH + 10 DIA OF BAR
  - 14] LAP SHOULD BE EQUAL TO DEVELOPEMENT LENGTH + 10 DIA OF BAR
  - 15] USE OPC/PPC WITH MINIMUM GRADE 43/53 AND USE MAXIMUM WATER CEMENT RATIO 0.5
  - 16] NO OVERLAPS ARE ALLOWED IN FOOTING
  - 17] ALL AGGREGATE FOR FOOTING 30mm DOWN AND FOR COLUMN 20mm DOWN
  - 18] USE CURED MORTOR COVER BLOCKS OF SAME STRENGTH OF CONCRETE
  - 19] STRIPPING OF TIME FOR SHUTTERING AS PER IS 456-2000
  - 20] TOLERANCES FOR FORMWORK, REINFORCEMENT, COVER AS PER IS 456-2000
  - 21] BACKFILLING IN COLUMN PITS SHALL BE WITH APPROVED SOIL AND COMPACTED PROPERLY TO AVOID SETTLEMENT
  - 22] USE DENSIFIED COATED PLYWOOD FOR SHUTTERING & FORMWORK
  - 23] USE STEEL PROPS & STEEL SUPPORT FOR FORMWORK
  - 24] BURNT OIL NOT PERMITTED FOR SHUTTERING, USE MOULD OIL.
  - 25] USE SUPER-PLASTICISER TO MAINTAIN WATER/CEMENT RATIO
  - 26] CURING-EXPOSED SURFACE OF CONCRETE SHALL BE KEPT CONTINUOUSLY IN WET CONDITION MINIMUM FOR 14 DAYS.
  - 27] GHODI OR CHAIR SPACING @ 600 C/C
  - 28] GHODI OR CHAIR HEIGHT = (SLAB THICKNESS - 30MM + (2XDIA BAR))
  - 29] ALL OUTER PLINTH BEAMS BOTTOMS SHALL BE 100 MM BELOW G.L.
  - 30] ALL INNER BEAMS SHALL BE AT PLINTH LEVEL
  - 31] STUB COLUMN SC ARE ONLY UPTO PLINTH LEVEL
  - 32] BUILDING IS DESIGN FOR G+2 ONLY
  - 33] IN BOX FOOTING "L" SHALL BE (D-150)
  - 34] IN RAFT, BOX AND ECCENTRIC FOOTING DO NOT PROVIDE PEDESTAL UNTILL & UNLESS SPECIFIED
  - 35] HIGHER DIAMETER OF BAR SHALL BE PLACED AT SHORTER FACE OF COLUMN.
  - 36] SUPERVISION AT OWNER'S RISK.
  - 37] FOR ISOLATED FOOTING LONG BARS SHALL BE KEPT BELOW SHORT BARS.
  - 38] FOR COMBINED & RAFT FOOTING SHORT BARS SHALL BE KEPT BELOW LONG BARS.
  - 39] TYPICAL DETAILS OF SWEAR BARS AT EVERY JUNCTION OF MAIN BEAM AND SECONDARY BEAM



- 40] GRADE OF CONCRETE FOR P.C.C. -1:4:8.
- 41] CONCRETE AND STEEL MATERIAL TESTING AT OWNER'S RISK.
- 42] POSITION OF DRAIN PIPES IN TOILETS MAY VARY AS PER ARCHITECTURAL REQUIREMENT & SHALL BE 250MM AWAY FROM SUPPORT

| STUDY PURPOSE |          |      |          |            |
|---------------|----------|------|----------|------------|
| R.NO.         | REVISION | DATE | DESIGN:- | AEC        |
| 1.            |          |      | DEALT :- | KHUSHBU    |
| 2.            |          |      | DATE:-   | 21/04/2018 |
| 3.            |          |      | SCALE:-  | VARIABLE   |
| 4.            |          |      |          |            |

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|-----------|--|
| PROJECT:- | PROPOSED ICAI AT PURENA ,RAIPUR.( C.G.)  |
| TITLE:-   | STRUCTURAL DETAILS OF FOOTING AND COLUMN |
| OWNER:-   | -----                                    |

|              |  |
|--------------|--|
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|---|---|-----------------------|
|  | STRUCTURAL DESIGNER:-<br>AAJ ENGINEERS AND CONSULTANTS PVT. LTD.<br>SUNRAJ BHASKAR CMPLX., SECOND FLR., PRATAP NAGAR,<br>Ph.NO. 9970066936 e-mail : mail@aaajengineers.in | DRG. NO.<br><b>1A</b> |
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