

KEY PLAN FOR STAIRCASE TOWER
& BOTTOM SLAB OF LMR

SCHEDULE FOR BEAMS

TYPE	SIZE		TOP R/F STRAIGHT	TOP EXTRA UPTO L/4 FROM SUPPORT	BOTTOM R/F STRAIGHT	BOTTOM EXTRA '0.7 x L' AT CENTER	VERTICAL STIRRUPS	
	WIDTH (MM)	DEPTH (MM)					UPTO L/4 FROM SUPPORT	AT CENTRE
B1	300	600	4 - 16 Φ	2 - 16 Φ	3 - 16 Φ	2 - 16 Φ	8 Φ @ 100 C/C	8 Φ @ 100 C/C
B2	200	500	3 - 16 Φ	-----	3 - 16 Φ	-----	8 Φ @ 100 C/C	8 Φ @ 100 C/C
B3	300	500	3 - 16 Φ	2 - 16 Φ	4 - 16 Φ	2 - 16 Φ	8 Φ @ 100 C/C	8 Φ @ 150 C/C
B4	200	600	3 - 16 Φ	2 - 16 Φ	3 - 16 Φ	2 - 16 Φ	8 Φ @ 150 C/C	8 Φ @ 150 C/C
B5	300	500	4 - 20 Φ	-----	4 - 20 Φ	-----	8 Φ @ 100 C/C	8 Φ @ 150 C/C
CB	300	600	6 - 16 Φ	-----	5 - 16 Φ	-----	8 Φ @ 100 C/C	8 Φ @ 100 C/C
HB	200	SLAB THK.	2 - 12 Φ	-----	2 - 12 Φ	-----	8 Φ @ 150 C/C	8 Φ @ 150 C/C

SCHEDULE FOR SLAB

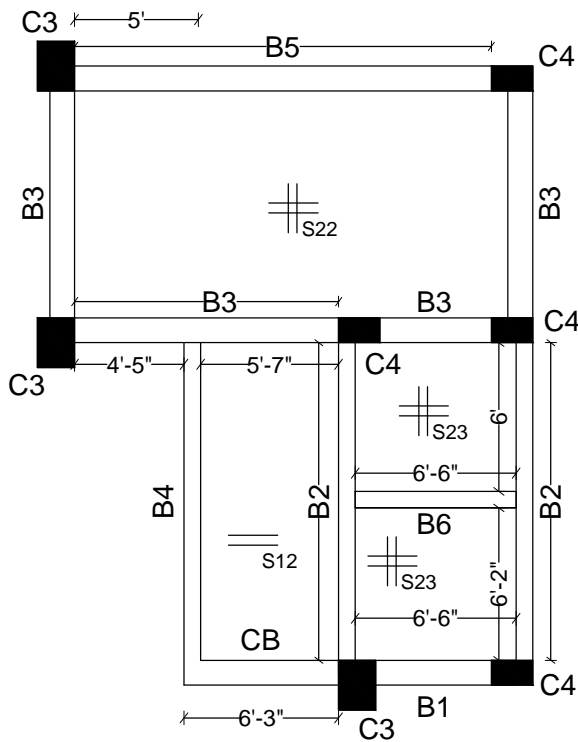
TYPE	THICKNESS (MM)	MAIN R/F ALT. B/U AT L/5 FROM SUPPORT	EXTRA TOP UP TO L/4 FROM SUPPORT	DIST.	REMARKS
S22	150	10 Φ @ 150 C/C	10 Φ @ 300 C/C	-----	TWO WAY
S11	150	10 Φ @ 150 C/C	10 Φ @ 300 C/C	-----	ONE WAY
S12	125	8 Φ @ 150 C/C	10 Φ @ 300 C/C	-----	ONE WAY

SCHEDULE FOR RCC TANK WALL

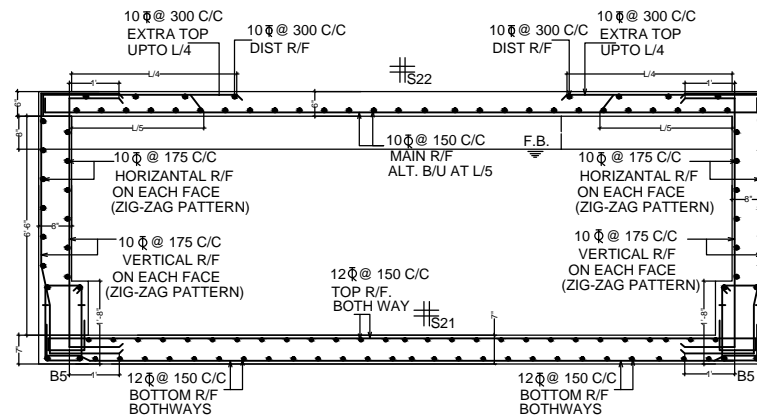
TYPE	TANK WALL DETAILS			
	THICKNESS (MM)	VERTICAL R/F ON EACH FACE	HORIZONTAL R/F ON EACH FACE	REMARKS
TANK WALL	200	10 Φ @ 175 C/C	10 Φ @ 175 C/C	DOUBLE MESH

SCHEDULE FOR MESH SLABS

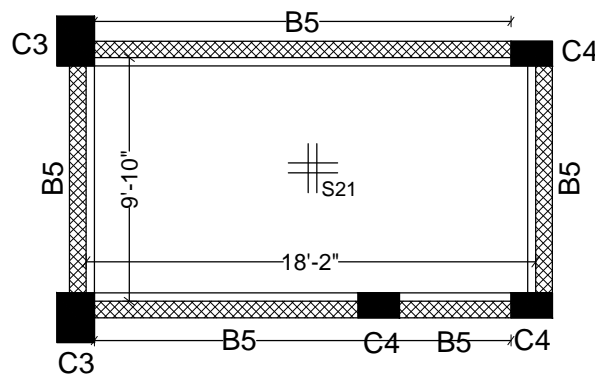
TYPE	THICKNESS (MM)	BOTTOM R/F BOTHWAYS	TOP R/F BOTHWAYS	REMARKS
S21	175	12 Φ @ 150 C/C	12 Φ @ 150 C/C	DOUBLE MESH
S23	150	10 Φ @ 150 C/C	10 Φ @ 150 C/C	DOUBLE MESH



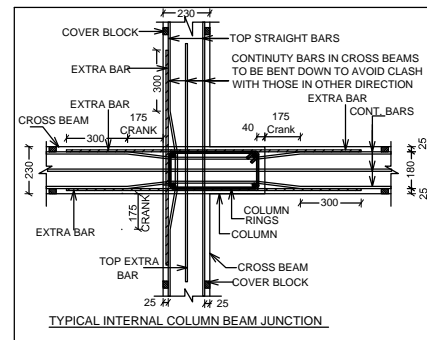
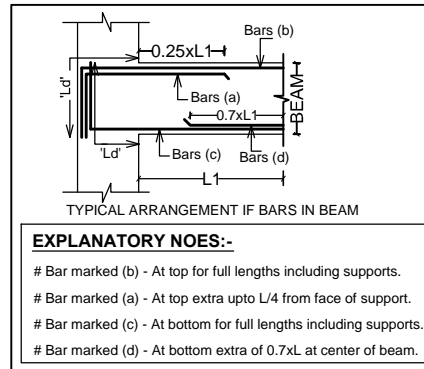
KEY PLAN FOR OVER HEAD
WATER TANK TOP SLAB & TOP SLAB OF LMR



SECTIONAL DETAIL AT "A-A"



KEY PLAN FOR OVER HEAD
WATER TANK BOTTOM SLAB

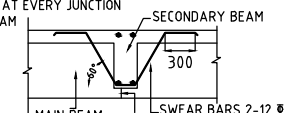


ICAI AT RAIPUR (LMR & WATER TANK SLAB BEAM DETAILS)

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

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

- NOTE:-
- 1] ALL DIMENSIONS ARE IN mm.
 - 2] S.B.C. OF THE SOIL IS ASSUMED AS 80kN/SQ.M. AND SHALL BE VERIFIED AT SITE BY SITE ENGINEER.
 - 3] MIN. DEPTH OF FOUNDATION SHOULD BE 3.000 M. BELOW NATURAL GROUND LVL.
 - 4] USE M25 GRADE OF CONCRETE.
 - 5] DENSITY OF BRICK ASSUME TO BE 1900 KG/M³.
 - 6] ALL STRUCTURAL STEEL REINFORCEMENT SHALL BE HIGH STRENGTH DEFORM BARS OF GRADE FE500 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 20 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 ARRANGEMENT REFER ARCHITECTURAL DRAWING.
 - 13] ALL BARS SHOULD BE EXTENDED UPTO DEVELOPMENT LENGTH + 10 DIA OF BAR
 - 14] LAP SHOULD BE EQUAL TO DEVELOPMENT 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] BURNED 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 + (2X DIA 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 6-3/L ONLY
 - 33] IN BOX FOOTING "L" SHALL BE 10-150
 - 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. -14.8
- 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
- 43] PHYSICAL CENTER OF COLUMN SHALL MATCH WITH CENTER OF FOOTING IN ISOLATED FOOTING.
- 44] IN CASE OF ANY DISCRIPANCY/HUMAN ERROR KINDLY CONTACT STRUCTURAL ENGINEER.
- 43] PROVIDE CLEAR COVER OF 25 mm FOR RCC WALL

R.NO.	REVISION	DATE	DEALT	
1.			DESIGN:-	AEC
2.			DEALT :-	KHUSHBU
3.			DATE:-	15/02/2018
4.			SCALE:-	VARIABLE

PROJECT:- PROPOSED ICAI BUILDING AT RAIPUR

TITLE:- STRUCTURAL DETAILS OF LMR & WATER TANK SLAB BEAM

OWNER:-

ARCHITECT :-

ARCHITECT SANDEEP. NEENA + ASSOCIATES

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DRG. NO.

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