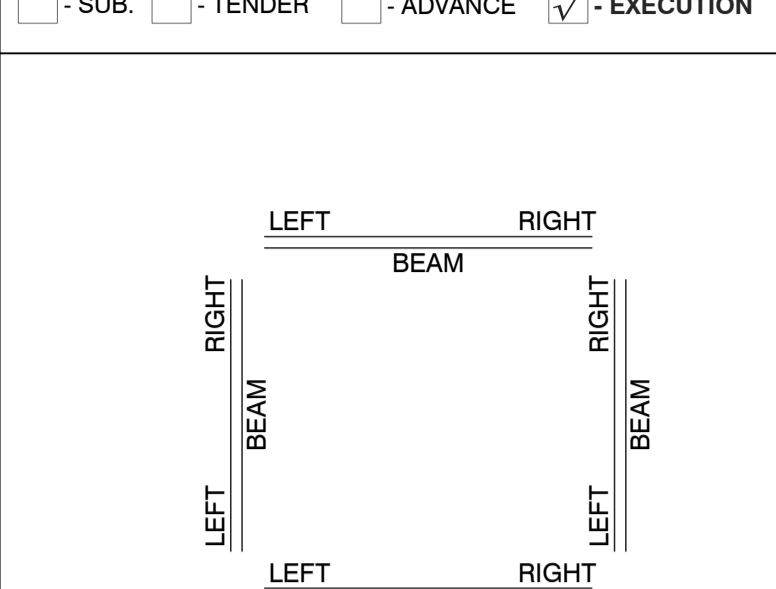


DRAWING NOS. : ASC - 04

PROJECT STAGE : ☐ - SUB. ☐ - TENDER ☐ - ADVANCE ☒ - EXECUTION



SIGN CONVENTIONS FOR BEAM LEFT & RIGHT SIDES FOR STIRRUPS & EXTRA TOP BARS

SPECIAL NOTES :-
ALL EXTERNAL WALLS SHALL BE 150 thk. LIGHT WEIGHT BLOCKS.
ALL INTERNAL WALLS SHALL BE 150 thk. LIGHT WEIGHT BLOCKS.

- NOTES :**
- Basic reference code:- IS 456: 2000, IS 1893, IS 13920
 - Due care shall be taken to ascertain that requisite strength of concrete is gained before commencement of deshuttering. It shall comply with provisions of Clause No. 11.3 of IS 456: 2000.
 - Earthquake zone considered is zone III for MUMBAI region.
 - Clear covers
 - Footings / Raft (Bottom / Top) 75/50
 - Columns & walls >200mm width 40
 - Columns & walls having width of 200mm & below 25
 - Slabs 20
 - Beams 25
 - Girder Beams 40
 - Pile cap 75
 - Beams having depth more than 750mm, provide side-face reinforcement.
 - Substratum shall be approved from our office before laying P.C.C.
 - Minimum clear spacing between any two longitudinal bars in beam= 50mm.
 - All laps (Ld) shall be staggered & not more than 50% bars to be lapped at any given section. Ld = 50 X D (where D= dia. of Bar)
 - All buildings shall have tie beams/plinth beams at ground/plinth level.
 - At any level where column size gets reduced in either dimension tie beams/plinth beams are essential.
 - For cantilevers, top bars to be anchored behind from external face of support for -1.5 X span of cantilever.
 - Fire rating considered:- 2 Hour Max.

- Use of this drawing for construction shall explicitly confirm acceptance of following conditions by Owner / Builder / Contractor
- Our responsibility shall remain limited to safe and sound structural design as transmitted by this drawing and we shall not remain responsible for
 - Safety of old structure during demolition.
 - Safety of any adjoining building /persons staying in adjoining building/persons and properties on adjoining roads.
 - Safety of construction worker/any personnel at work site during construction
 - Correctness/safety of any temporary structure, scaffolding, shuttering, centering erected at site and any injury to any personnel arising out of any accidents.
 - Accidents occurring due to premature deshuttering, faulty / substandard construction material or workmanship / faulty construction procedure.
 - Any accident occurring due to construction of elements of buildings not designed by us.
 - Supervision if specifically asked for will be provided to the extent of verification of reinforcement on site
 - All structural concrete should be weigh batched, machine mixed & mechanically vibrated.
 - Any discrepancy between our drawing & Architects' drawing shall be brought to our notice before construction.
 - Drawing shall not be scaled written dimensions are to be followed.
 - This drawing to be read along with other relevant drawings.

REV	DESCRIPTION	DATE	DWN.	CHKD.
R9	REVISED AS MARKED	15.12.23	NK	SIDDHI
R8	REVISED AS MARKED	30.11.23	NK	SIDDHI
R7	REVISED AS PER COMMENTS & AS MARKED	16.11.23	NK	SIDDHI
R6	REVISED AS PER COMMENTS & AS MARKED	03.11.23	NK	SIDDHI
R5	REVISED AS PER COMMENTS & AS MARKED	17.10.23	NK	SIDDHI
R4	REVISED AS PER COMMENTS & AS MARKED	12.10.23	NK	SIDDHI
R3	REVISED AS PER COMMENTS & AS MARKED	10.10.23	NK	SIDDHI
R2	REVISED AS PER COMMENTS	27.09.23	NK	SIDDHI
R1	REVISED AS PER COMMENTS	21.09.23	NK	SIDDHI

GRADE OF CONCRETE :-	- M25
GRADE OF STEEL :-	- Fe500
ENVIRONMENTAL EXPOSURE CONDITION :-	- MODERATE
DESIGN LIVE LOAD :- (UNLESS SPECIFIED)	-
S.B.C. :-	

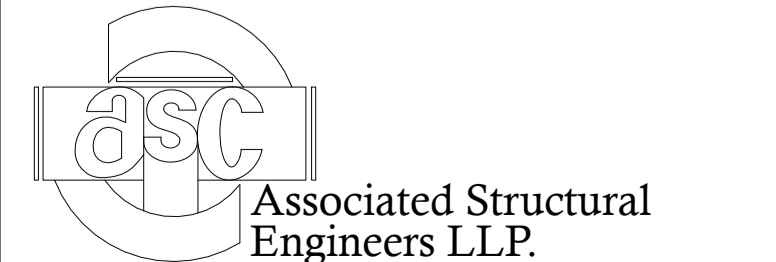
PROJECT : PROPOSED RESORT @ PALI, RAIGARH (GUEST BLOCK - 1A & 1B)

CLIENT : MELLORA INFRASTRUCTURE

ARCHITECT : STUDIO HUMANE

DRAWING TITLE : RCC DETAIL OF 1ST FLOOR LEVEL

SCALE	DWN.BY	CHK.BY	DATE	JOB NO.
N.T.S.	NandkumaR	SIDDHI	18.09.2023	ASC-2544



607, Opal Square, Opp. Railadevi Lake, Barve Rd. Wagale Estate, Thane (W)- 400 604.
Phone: +91-22-23812084/85, 8976072223
Email: info@asc.org.in Website: www.asc.org.in

SCHEDULE OF 'Z' BEAMS AT 1ST FLOOR LEVEL

BEAM MARKED	SIZE (B x D/d)	BOTTOM (STRAIGHT)	REINFORCEMENT		EX. TOP (STRAIGHT)	TOP (EXTRA OVER SUPPORT)		STIRRUPS		REMARKS
			BOTTOM (CURTAIL)	TOP (STRAIGHT)		LEFT	RIGHT	UPTO L/4	REST	
AB11,33 BB11,33	200 x 600 ~1200	2 - T16	---	2 - T16	2 - T16	---	---	T8@100 C/C	T8@100C/C	SFR 3-T10

SCHEDULE OF BEAMS AT 1ST FLOOR LEVEL :- BEAM AB3,4,5,14,15,16,18,22,23,25,29,30,32,36,42,60,62A,63,64,65,66,67,68,84,85,86,93,94,95,96,HB & HB1 ARE DELETED

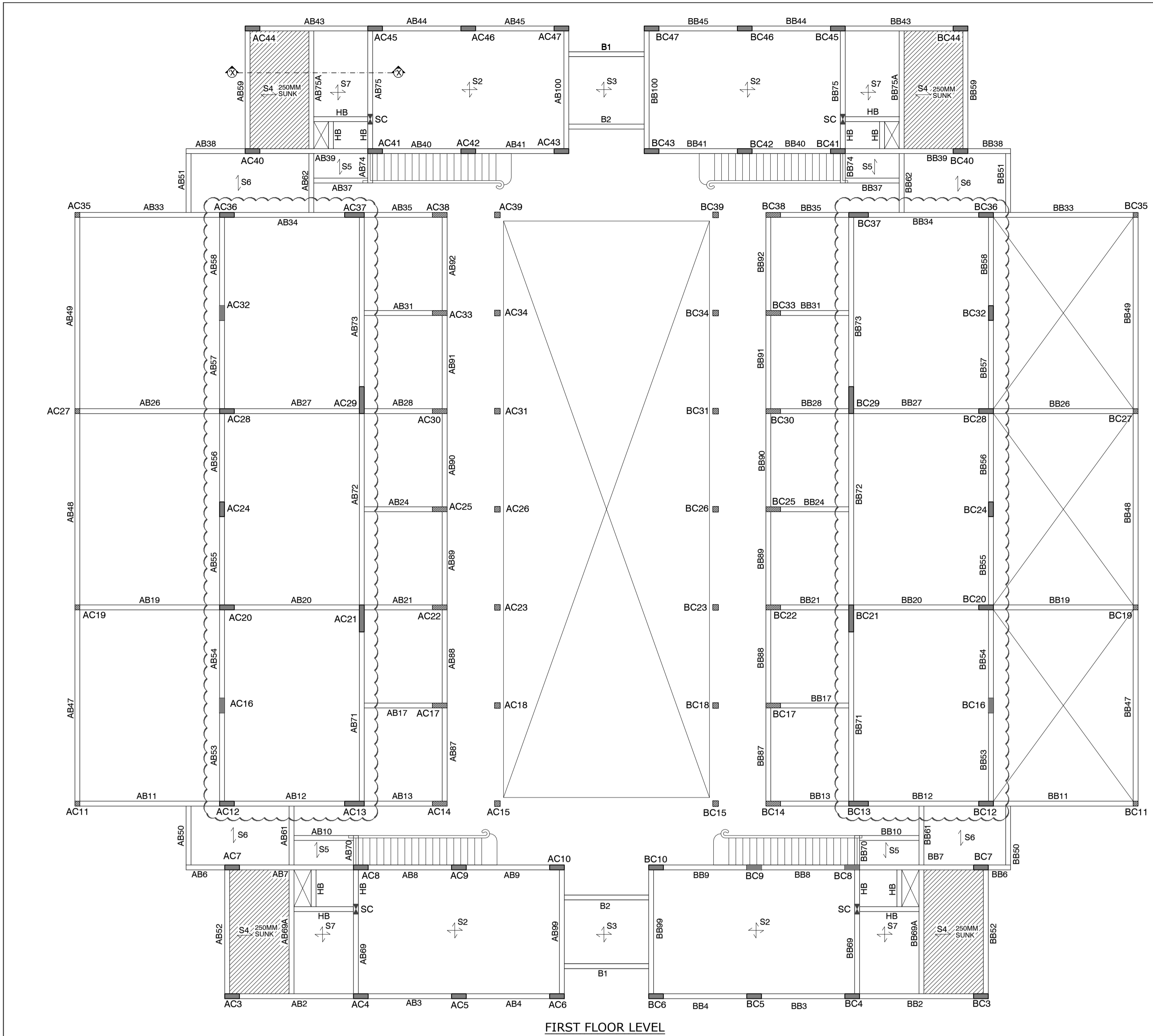
BEAM MARKED	SIZE (B x D)	REINFORCEMENT				STIRRUPS		REMARKS	
		BOTTOM (STRAIGHT)	TOP (CURTAIL)	TOP (STRAIGHT)	TOP (EXTRA OVER SUPPORT)	UPTO L/4	REST		
B1,2	200 x 600	2 - T16 +2 - T12	---	2 - T12	---	---	T8@200C/C	T8@200C/C	...
AB2,43	200 x 600	3 - T16	2 - T12	2 - T12	3 - T16	3 - T16	T8@100 C/C	T8@200 C/C	---
AB3,4,8,9,40,41,44,45	200 x 600	2 - T16 +2 - T12	---	2 - T12	2 - T16	2 - T16	T8@200 C/C	T8@200 C/C	---
AB6	200 x 600	2 - T12	---	2 - T16 +2 - T12	---	---	T10@100 C/C	T10@100 C/C	CANTILEVER
AB7	200 x 600	2 - T16	2 - T16	2 - T16	3 - T16	3 - T16	T8@100 C/C	T8@150 C/C	TOP & BOTTBARS TO BE TAKEN FROM CANTILEVER
AB10,37,50,51,61,62	200 x 600	2 - T16	---	2 - T12	---	---	T8@150C/C	T8@200C/C	...
AB12,34	200 x 600	2 - T16 +2 - T12	2 - T16	2 - T16	2 - T16	2 - T16	T8@100 C/C	T8@150C/C	---
AB13,35	200 x 600	2 - T16 +2 - T16	---	2 - T16	2 - T16	2 - T16	T8@100C/C	T8@100C/C	---
AB20,27	200 x 600	3 - T16 +2 - T12	2 - T16	2 - T16	---	---	T8@200 C/C	T8@200 C/C	---
AB17,24,31	200 x 600	2 - T16	---	2 - T16	---	2 - T16	T8@100 C/C	T8@100 C/C	---
AB19,26	200 x 600	3 - T16 +2 - T12	3 - T16	2 - T16 +2 - T12	2 - T12	3 - T16	T10@100 C/C	T10@150 C/C	---
AB21,28	200 x 600	3 - T16	---	2 - T16	---	---	T8@200C/C	T8@200C/C	---
AB38	200 x 600	2 - T16	---	2 - T16 +2 - T16	---	---	T10@100C/C	T10@100C/C	CANTILEVER
AB39	200 x 600	3 - T16	2 - T12	2 - T16	---	2 - T16	T8@100C/C	T8@100C/C	TOP & BOTTBARS TO BE TAKEN FROM CANTILEVER
AB47,48,49	200 x 600	3 - T16 +2 - T16	2 - T16	2 - T16 +2 - T12	3 - T16	3 - T16	T10@100C/C	T10@150C/C	---
AB52,59,99,100	200 x 600	3 - T16	2 - T12	2 - T16	2 - T16	2 - T16	T10@150C/C	T10@200C/C	---
AB69,75	200 x 400	3 - T16	2 - T16	2 - T16	2 - T16	2 - T16	T10@100C/C	T10@150C/C	---
AB53,54,55,56,57,58, 87,88,89,90,91,92	200 x 600	2 - T16 +2 - T12	---	2 - T16	---	---	T8@100C/C	T8@200C/C	---
AB62A,84,85,86	200 x 350	2 - T12	---	2 - T12	---	---	T8@150C/C	T8@150C/C	BEAM TOP @250 SUNK LVL
AB67	200 x 600	2 - T12	---	2 - T12	---	---	T8@150 C/C	T8@150 C/C	---
AB69A,75A	200 x 375	2 - T16 +2 - T16	---	2 - T16 +2 - T12	---	---	T8@100C/C	T8@100C/C	---
AB70	200 x 600	2 - T16	---	2 - T16 +2 - T12	---	---	T8@100C/C	T8@100C/C	CANTILEVER
AB71,72,73	200 x 600	3 - T16	3 - T16	2 - T16 +2 - T12	3 - T16	3 - T16	T10@100C/C	T10@125C/C	---
AB74	200 x 600	2 - T16	---	2 - T16	---	---	T8@100 C/C	T8@100 C/C	---
AB78,79,81	200 x 600	2 - T12	---	2 - T10	---	---	T8@150 C/C	T8@150 C/C	---
HB	200 x SLAB THK.	2 - T12	---	2 - T12	---	---	T8@150C/C	T8@150C/C	HIDDEN BEAM

SCHEDULE OF BEAMS AT 1ST FLOOR LEVEL :- BEAM BB3,4,5,14,15,16,18,22,23,25,29,30,32,36,42,60,62A,63,64,65,66,67,68,84,85,86,93,94,95,96,HB & HB1 ARE DELETED

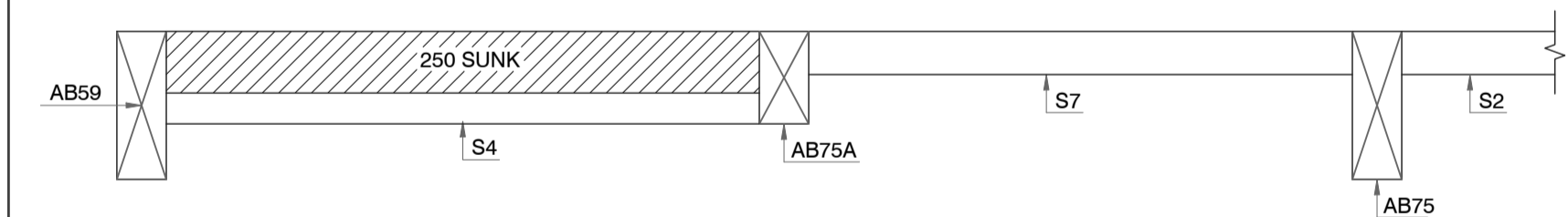
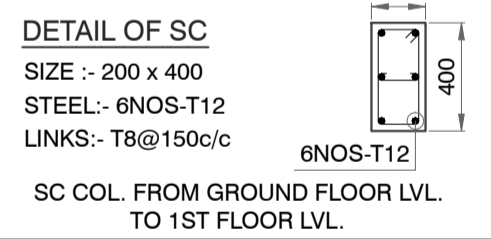
BEAM MARKED	SIZE (B x D)	REINFORCEMENT					STIRRUPS		REMARKS
		BOTTOM (STRAIGHT)	TOP (CURTAIL)	TOP (STRAIGHT)	TOP (EXTRA OVER SUPPORT)		UPTO L/4	REST	
BB2,43	200 x 600	3 - T16	2 - T12	2 - T12	3 - T16	3 - T16	T8@100 C/C	T8@200 C/C	...
BB3,4,8,9,40,41,44,45	200 x 600	2 - T16 +2 - T12	---	2 - T12	2 - T16	2 - T16	T8@200 C/C	T8@200 C/C	...
BB6	200 x 600	2 - T12	---	2 - T16 +2 - T12	---	---	T10@100 C/C	T10@100 C/C	CANTILEVER
BB7	200 x 600	2 - T16	2 - T16	2 - T16	3 - T16	3 - T16	T8@100 C/C	T8@150 C/C	TOP & BOTTBARS TO BE TAKEN FROM CANTILEVER
BB10,37,50,51,61,62	200 x 600	2 - T16	---	2 - T12	---	---	T8@150C/C	T8@200C/C	...
BB12,34	200 x 600	2 - T16 +2 - T12	2 - T16	2 - T16	2 - T16	2 - T16	T8@100 C/C	T8@150C/C	...
BB13,35	200 x 600	2 - T16 +2 - T16	---	2 - T16	2 - T16	2 - T16	T8@100C/C	T8@100C/C	...
BB20,27	200 x 600	3 - T16 +2 - T12	2 - T16	2 - T16	---	---	T8@200 C/C	T8@200 C/C	...
BB17,24,31	200 x 600	2 - T16	---	2 - T16	---	2 - T16	T8@100 C/C	T8@100 C/C	...
BB19,26	200 x 600	3 - T16 +2 - T12	3 - T16	2 - T16 +2 - T12	2 - T12	3 - T16	T10@100 C/C	T10@150 C/C	...
BB21,28	200 x 600	3 - T16	---	2 - T16	---	---	T8@200C/C	T8@200C/C	...
BB38	200 x 600	2 - T16	---	2 - T16 +2 - T16	---	---	T10@100C/C	T10@100C/C	CANTILEVER
BB39	200 x 600	3 - T16	2 - T12	2 - T16	---	2 - T16	T8@100C/C	T8@100C/C	TOP & BOTTBARS TO BE TAKEN FROM CANTILEVER
BB47,48,49	200 x 600	3 - T16 +2 - T16	2 - T16	2 - T16 +2 - T12	3 - T16	3 - T16	T10@100C/C	T10@150C/C	...
BB52,59,99,100	200 x 600	3 - T16	2 - T12	2 - T16	2 - T16	2 - T16	T10@150C/C	T10@200C/C	...
BB69,75	200 x 400	3 - T16	2 - T16	2 - T16	2 - T16	2 - T16	T10@100C/C	T10@150C/C	...
BB53,54,55,56,57,58, 87,88,89,90,91,92	200 x 600	2 - T16 +2 - T12	---	2 - T16	---	---	T8@100C/C	T8@200C/C	...
BB62A,84,85,86	200 x 350	2 - T12	---	2 - T12	---	---	T8@150C/C	T8@150C/C	BEAM TOP @250 SUNK LVL
BB67	200 x 600	2 - T12	---	2 - T12	---	---	T8@150 C/C	T8@150 C/C	...
BB69A,75A	200 x 375	2 - T16 +2 - T16	---	2 - T16 +2 - T12	---	---	T8@100C/C	T8@100C/C	...
BB70	200 x 600	2 - T16	---	2 - T16 +2 - T12	---	---	T8@100C/C	T8@100C/C	CANTILEVER
BB71,72,73	200 x 600	3 - T16	3 - T16	2 - T16 +2 - T12	3 - T16	3 - T16	T10@100C/C	T10@125C/C	...
BB74	200 x 600	2 - T16	---	2 - T16	---	---	T8@100 C/C	T8@100 C/C	...
BB78,79,81	200 x 600	2 - T12	---	2 - T10	---	---	T8@150 C/C	T8@150 C/C	...
HB	200 x SLAB THK.	2 - T12	---	2 - T12	---	---	T8@150C/C	T8@150C/C	HIDDEN BEAM

SCHEDULE OF SLABS AT 1ST FLOOR LEVEL:- SLAB S1 ARE DELETED

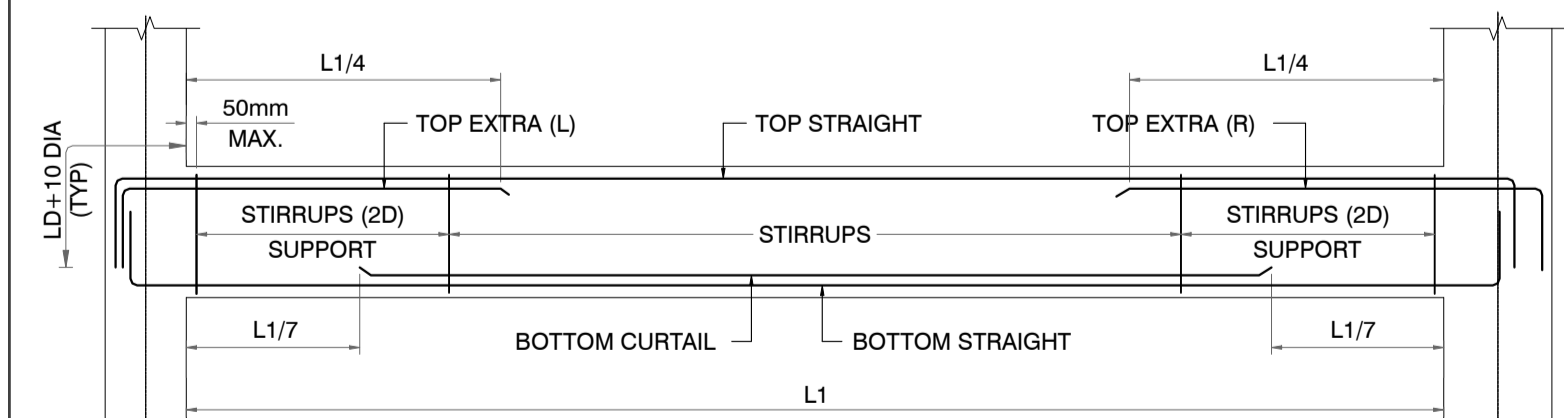
SLAB MARKED	THICK.	TYPE	REINFORCEMENT		REMARKS
			SHORT BAR	LONG BAR	
S2	175	TWO WAY	T10@100C/C (ALT. BENT UP)	T10@200C/C (ALT. BENT UP)	.
S3	125	TWO WAY	T8@150C/C (ALT. BENT UP)	T8@200C/C (ALT. BENT UP)	.
S4	125	ONE WAY	T8@100C/C (ALT. BENT UP)	T8@200C/C (ALT. BENT UP)	250MM SUNK SLAB
S5	115	ONE WAY	T8@150C/C (ALT. BENT UP)	T8@200C/C (ALT. BENT UP)	.
S6	115	ONE WAY	T8@150C/C (ALL STRAIGHT)	T8@200C/C (DIST.)	.
S7	175	TWO WAY	T10@150C/C (ALT. BENT UP)	T10@200C/C (ALT. BENT UP)	.
ST	225	ONE WAY	T12@100C/C (MAIN)	T12@200C/C (DIST.)	STAIRCASE SLAB



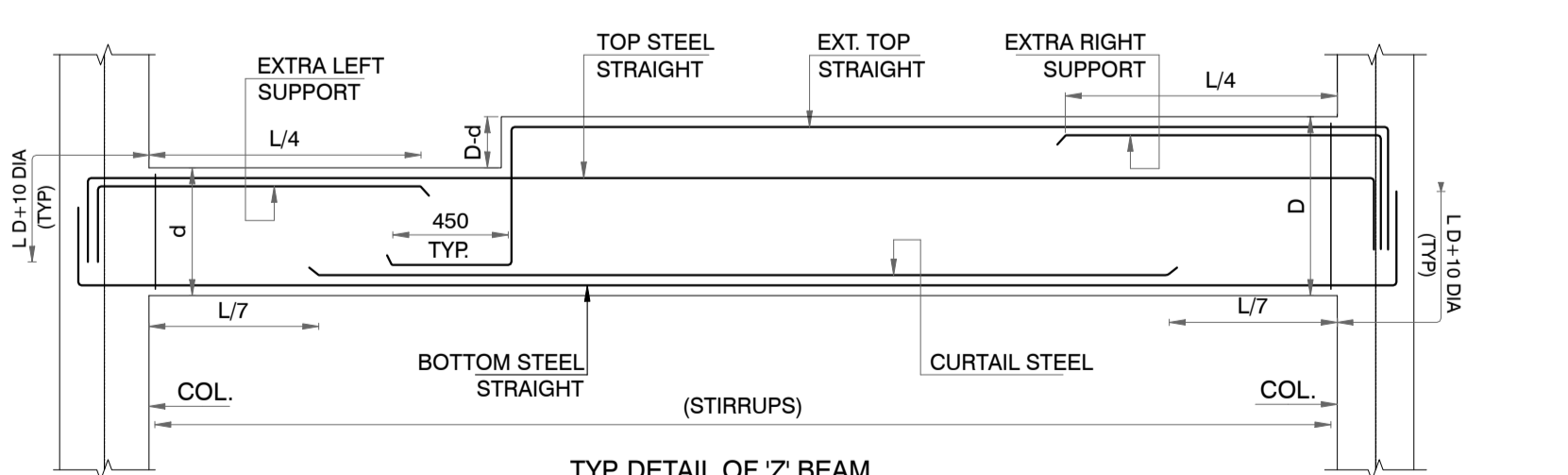
FIRST FLOOR LEVEL



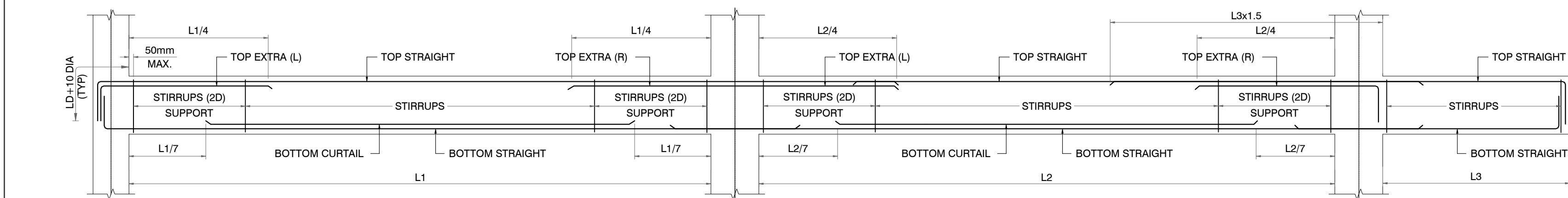
SECTION 'X - X'



TYPICAL DETAILS OF SPECIAL CONFINING REINFORCEMENT FOR BEAM RESTING ON COLUMN AT BOTH ENDS



TYP. DETAIL OF 'Z' BEAM



TYPICAL DETAILS OF SPECIAL CONFINING REINFORCEMENT REQUIREMENT FOR BEAM REINFORCEMENT