

SCHEDULE OF THE BEAMS

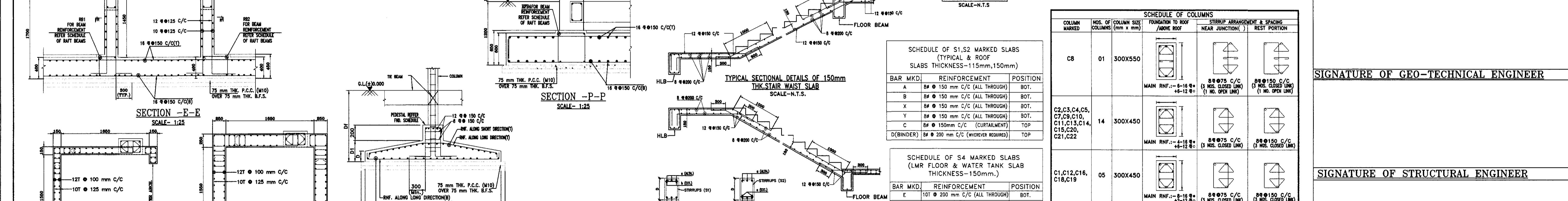
BEAM MARKED	BEAM SIZE (mm)	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
TB1	250 x 400	2-12	2-12	2-8 @ 100 C/C	2-8 @ 200 C/C
TB2	250 x 400	2-12	2-12	2-8 @ 100 C/C	2-8 @ 200 C/C
TB3	250 x 400	2-12	2-12	2-8 @ 100 C/C	2-8 @ 100 C/C
TB4	250 x 350	3-12	3-12	2-8 @ 100 C/C	2-8 @ 200 C/C
TB5	250 x 350	3-12	3-12	2-8 @ 100 C/C	2-8 @ 100 C/C

SCHEDULE OF TYPICAL FLOOR BEAMS

BEAM MARKED	BEAM SIZE (mm)	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
FB1	250 x 450	2-12	2-12	2-8 @ 100 C/C	2-8 @ 200 C/C
FB2	250 x 450	2-12	2-12	2-8 @ 100 C/C	2-8 @ 200 C/C
FB3	250 x 450	2-12	2-12	2-8 @ 100 C/C	2-8 @ 100 C/C
FB4	250 x 400	3-12	3-12	2-8 @ 100 C/C	2-8 @ 100 C/C
FB5	250 x 450	2-12	2-12	2-8 @ 100 C/C	2-8 @ 100 C/C
FB6	250 x 450	2-12	2-12	2-8 @ 100 C/C	2-8 @ 100 C/C
FB7	250 x 450	3-16	3-16	2-8 @ 100 C/C	2-8 @ 200 C/C
FB8	250 x 450	3-16	3-16	2-8 @ 100 C/C	2-8 @ 200 C/C
FB9	250 x 450	3-16	2-12	2-8 @ 100 C/C	2-8 @ 200 C/C
FB10	250 x 450	3-16	3-16	2-8 @ 100 C/C	2-8 @ 200 C/C
FB11	250 x 450	3-20	3-16	2-8 @ 100 C/C	2-8 @ 200 C/C
FB12	250 x 450	3-20	3-16	2-8 @ 100 C/C	2-8 @ 200 C/C
FB13	250 x 450	3-16	3-16	2-8 @ 100 C/C	2-8 @ 200 C/C
FB14	250 x 450	3-16	3-16	2-8 @ 100 C/C	2-8 @ 200 C/C
FB15	400 x 175	6-16	6-16	2-8 @ 100 C/C	2-8 @ 150 C/C
HLB	250 x 450	3-16	2-16	2-8 @ 100 C/C	2-8 @ 200 C/C

SCHEDULE OF ABOVE ROOF BEAMS

BEAM MARKED	BEAM SIZE (mm)	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
WR1	250 x 450	3-16	3-16	2-8 @ 100 C/C	2-8 @ 200 C/C
WR2	250 x 450	3-16	3-16	2-8 @ 100 C/C	2-8 @ 100 C/C
LMF1	250 x 400	3-16	3-16	2-8 @ 100 C/C	2-8 @ 200 C/C
LMF2	250 x 400	3-16	3-16	2-8 @ 100 C/C	2-8 @ 100 C/C
LMR1	250 x 400	3-12	3-12	2-8 @ 100 C/C	2-8 @ 200 C/C
LMR2	250 x 400	3-12	3-12	2-8 @ 100 C/C	2-8 @ 100 C/C
MRR1	250 x 400	3-12	3-12	2-8 @ 100 C/C	2-8 @ 200 C/C
MRR2	250 x 400	3-12	3-12	2-8 @ 100 C/C	2-8 @ 100 C/C



SCHEDULE OF S1,S2 MARKED SLABS (TYPICAL & ROOF SLABS THICKNESS-115mm,150mm)

BAR MKD	REINFORCEMENT	POSITION
A	8# @ 150 mm C/C (ALL THROUGH)	BOT.
B	8# @ 150 mm C/C (ALL THROUGH)	BOT.
X	8# @ 150 mm C/C (ALL THROUGH)	BOT.
Y	8# @ 150 mm C/C (ALL THROUGH)	BOT.
C	8# @ 150 mm C/C (CURTAILMENT)	TOP
D (BINDER)	8# @ 200 mm C/C (WHEVER REQUIRED)	TOP

SCHEDULE OF S4 MARKED SLABS (MUMTY & LMR ROOF SLAB THICKNESS-150mm.)

BAR MKD	REINFORCEMENT	POSITION
E	10# @ 200 mm C/C (ALL THROUGH)	BOT.
F	10# @ 200 mm C/C (ALL THROUGH)	TOP

SCHEDULE OF S3 MARKED SLABS (MUMTY & LMR ROOF SLAB THICKNESS-115mm.)

BAR MKD	REINFORCEMENT	POSITION
E	8# @ 150 mm C/C (ALL THROUGH)	BOT.
F	8# @ 150 mm C/C (ALL THROUGH)	TOP

SCHEDULE OF STOOl COLUMNS

COLUMN MARKED	NOS. OF COLUMNS	FOUNDATION TO ROOF ABOVE ROOF	ROOF TO ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
C8	01	300X550		
C2,C3,C4,C5, C7,C9,C10, C11,C13,C14, C15,C20, C21,C22	14	300X450		
C1,C12,C16, C18,C19	05	300X450		
C17	01	300X450		
C6	01	400X400		
S1,S2 (ROOF TO WATER TANK)	02	250x250		

NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

ISOLATED	F1	F2	F3	F4
ISOLATED	2.1m x 2.1m	2.4m x 2.4m	2.8m x 2.8m	3.0m x 3.0m
RAFT	11.00	12.7	11.00	10.00

SCHEDULE FOR ISOLATED FOUNDATION

UNDER COLUMNS MARKED	FOUNDATION MARKED	WIDTH (m)	LENGTH (m)	THICKNESS (mm)	DEPTH (mm)	BOTTOM REINFORCEMENT	TOP REINFORCEMENT
C1,C2,C15, C20	F1	2.1	2.1	400	250	12 # @ 150 C/C	12 # @ 150 C/C
C3,C10, C13,C14	F2	2.4	2.4	500	350	12 # @ 150 C/C	12 # @ 150 C/C
C4,C11, C14,C22	F3	2.8	2.8	500	300	12 # @ 100 C/C	12 # @ 100 C/C
C6,C12	F4	3.0	3.0	500	350	12 # @ 100 C/C	12 # @ 100 C/C

SCHEDULE OF RAFT BEAMS

BEAM MARKED	BEAM SIZE (mm)	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS	SIDE FACE
RB1	400 x 400	4-16	4-20	3-16	4-8 @ 200 C/C
RB2	350 x 450	5-16	5-20	3-16	4-8 @ 150 C/C
RB3	400 x 450	6-16	6-20	4-8	4-8 @ 150 C/C
RB4	400 x 550	7-16	7-20	7-20	4-8 @ 100 C/C

SCHEDULE OF RAFT SLAB

SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION	REINFORCEMENT ALONG LONGER DIRECTION
RS1	400	16 # @ 150 C/C	16 # @ 150 C/C
RS2	600	16 # @ 150 C/C	16 # @ 150 C/C

- NOTES:**
- UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
 - ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METERS. UNLESS OTHERWISE STATED ALL DIMENSIONS SHALL BE FOLLOWED.
 - INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH).
 - ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE WORK COMMENCES.
 - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE BARS OF GRADE Fe-500/500D CONFORMING TO IS-1786-2008.
 - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50d BAR DIA.
 - CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
 - i) COLUMNS : 40 mm
 - ii) BEAMS : 30 mm
 - iii) SLABS : 20 mm
 - iv) WAIST SLAB : 20 mm
 - v) ISOLATE FOOTING : 50 mm
 - vi) RAFT BEAM & SLAB : 50 mm
 - vii) SHEAR WALL : 20 mm
 - GRADE OF CONCRETE FOR SUPERSTRUCTURE WILL BE M25 AS PER IS-456:2000.
 - (1) GRADE OF CONCRETE FOR SUPERSTRUCTURE WILL BE M25 AS PER IS-456:2000.
 - (2) SUBSTRUCTURE - M25 AS PER IS-456:2000.
 - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
 - DEVELOPMENT LENGTHS GOOD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987.
 - WHEREVER A SUPPORTED MEMBER TERMINATES AT A SUPPORTING MEMBER THE BARS OF THE SUPPORTED MEMBER SHOULD HAVE AN ANCHORAGE OF 60d IN THE SUPPORTING MEMBER.
 - WHERE TWO BEAMS MEET AT A COLUMN LOCATED ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDES.
 - THE NET SAFE BEARING CAPACITIES FOR ALL ISOLATED COMBINED & STRIP FOOTINGS AT DEPTH (-) 1.2m FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY M. SURESH KUMAR.
 - THE ABOVE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
 - THE N VALUE AS DESCRIBED UNDER NOTES OF TABLE-1 OF IS-1803(PART-1)-2016 SHOULD BE ENSURED TO BE GREATER THAN 15 FOR VALIDITY OF THIS DESIGN AND DRAWING.

TITLE-
 STRUCTURAL DRAWING OF PROPOSED G+4 STORIED COMMERCIAL CUM RESIDENTIAL (APARTMENT) BUILDING OF SRI ASIT KUMAR TRIBEDI, SMT. HASI TRIBEDI , OVER L.R. PLOT NO. - 3149 & 3151, R.S. PLOT NO.- 702, KHATHIAN NO- 1284 & 2154 MOUZA - NADIHA, J.L. NO- 092, P.S. COKE OVEN, DIST- PASHCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT/ENGINEER

SIGNATURE OF GEO-TECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT:



STRUCTCON ENTERPRISE
 REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR, 09B, KALIKAPUR ROAD, KOLKATA - 700 099
 Email-structconenterprise@gmail.com
 Ph. - 9007714478, 7005201793

DRAWING TITLE
 FOUNDATION, BEAM, COLUMN, SAB, STAIR LAYOUT PLAN WITH REINF. STRUCTURAL DETAILS.
SCALE-1:100 OR AS SHOWN
DATE- 26.06.2023

SHEET NO.- 1 OF 1 SHEET SIZE-A0