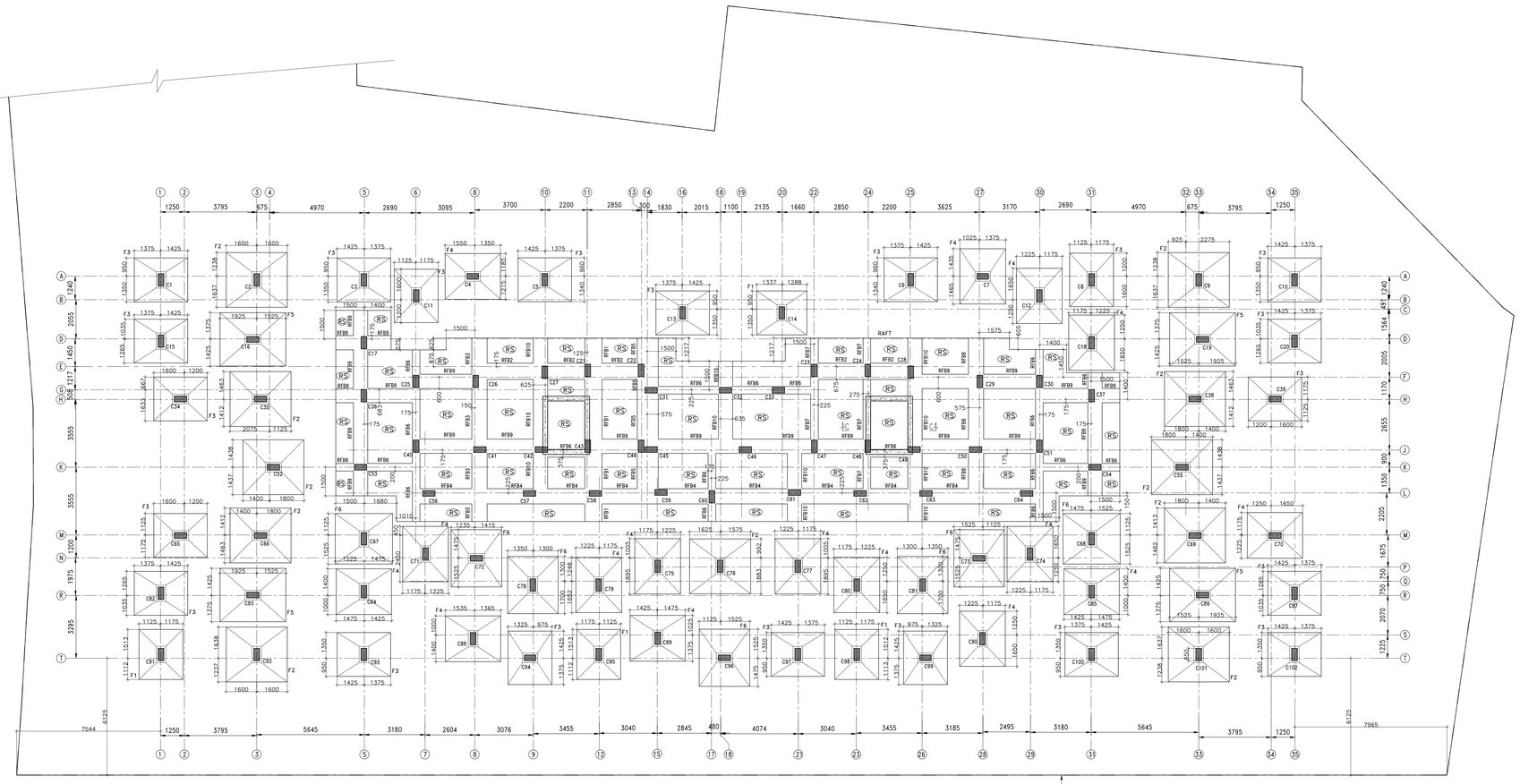


FOUNDATION LAYOUT PLAN
RAFT SLAB (RS) THICKNESS 650 mm
SCALE-1:100

NOTES :

1. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES S… CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF P…
2. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN ME… MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED… STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITEC… INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH).
3. ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH TH… RELEVANT ARCHITECTURAL DRAWINGS.
4. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
5. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008.
6. ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
7. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
8. UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 250 C/C.
9. CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
   i) ISOLATED FOUNDATION : 50 mm
   ii)RAFT BEAM & SLAB : 50 mm
   iii)SHEAR WALL : 20 mm
10. GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS: 456:2000.
11. DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP 34:1987
12. THE NET SAFE BEARING CAPACITIES FOR ALL ISOLATED FOUNDATION AT DEPTH (-)1.2m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. ASIM SARKAR.
13. THE NET SAFE BEARING CAPACITIES FOR RAFT FOUNDATION AT DEPTH (-)2.150m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. ASIM SARKAR..
14. THE ABOVE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
15. THE N VALUE AS DESCRIBED UNDER NOTES OF TABLE-1 OF IS-1893(PART-1)-2016 SHOULD BE ENSURED TO BE GREATER THAN 15 FOR VALIDITY OF THIS DESIGN AND DRAWING.

TITLE (BLOCK-A)

STRUCTURAL DRAWING OF PROPOSED (BLOCK-A) G+8 STORIED COMMERCIAL CUM RESIDENTIAL BUILDING (APARTMENT HOUSING PROJECT) OF SRI ASHIS RAY,SRI SASWAT RAY, MANORAMA RAY, MD MUSLIM & MD REZAUR RAHAMAN OVER L.R. PLOT NO. – 135 ,R.S PLOT NO.-135, KHATIAN NO.– 352,355,356,362 & 402 MOUZA –RAIDI, BLOCK-KULTI, J.L. NO– 29, P.S.– KULTI, DIST – PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

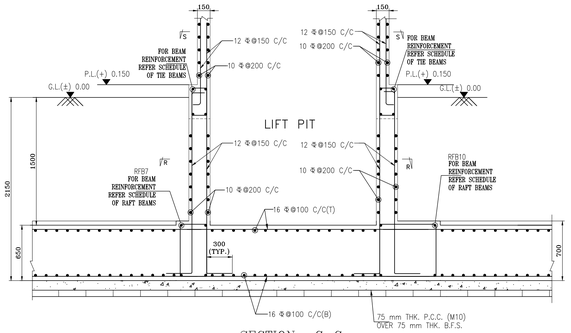
SIGNATURE OF ARCHITECT/ENGINEER

Ar. VIJAYA SINGH MAZUMDER
COA REGISTERED
CA/2021/134276

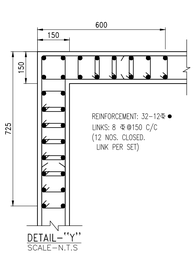
SIGNATURE OF GEOTECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

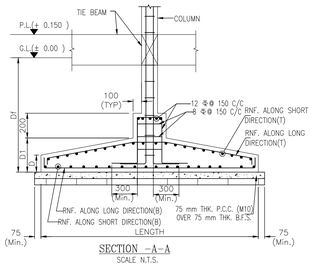
SIGNATURE OF THE VETTING AUTHORITY



SECTION –C–C
SCALE- 1:25



DETAIL-"Y"
SCALE-N.T.S



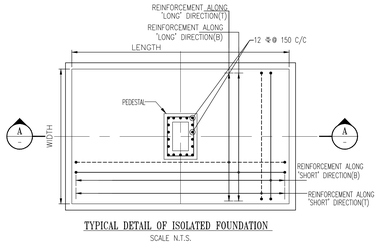
SECTION –A–A
SCALE N.T.S.

SCHEDULE FOR ISOLATED FOUNDATION

UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE					FOUNDATION REINFORCEMENT DETAILS			
			LENGTH (m)	WIDTH (m)	THICKNESS D1 (mm)	THICKNESS D (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT ALONG SHORT DIRECTION	BOTTOM REINFORCEMENT ALONG LONG DIRECTION	TOP REINFORCEMENT ALONG SHORT DIRECTION	TOP REINFORCEMENT ALONG LONG DIRECTION
C14,C91,C95,C98	F1	04	2.625	2.300	450	300	1200	16 ϕ@ 150 C/C	16 ϕ@ 150 C/C	8 ϕ@ 300 C/C	8 ϕ@ 300 C/C
C2,C9,C35,C38,C52,C55,C66, C69,C76,C92,C101	F2	11	3.200	2.875	550	450	1200	16 ϕ@ 175 C/C	20 ϕ@ 125 C/C	8 ϕ@ 300 C/C	8 ϕ@ 300 C/C
C1,C3,C5,C6,C8,C10,C11,C13, C15,C20,C34,C39,C65,C82,C87, C93,C94,C97,C99,C100,C102	F3	21	2.800	2.300	500	350	1200	16 ϕ@ 125 C/C	16 ϕ@ 125 C/C	8 ϕ@ 300 C/C	8 ϕ@ 300 C/C
C4,C7,C12,C18,C70,C71,C74, C75,C77,C78,C80,C84,C85,C88, C89,C90	F4	16	2.900	2.400	500	350	1200	16 ϕ@ 125 C/C	16 ϕ@ 100 C/C	8 ϕ@ 300 C/C	8 ϕ@ 300 C/C
C16,C19,C83,C86,	F5	04	3.450	2.800	600	450	1200	16 ϕ@ 150 C/C	16 ϕ@ 100 C/C	8 ϕ@ 300 C/C	8 ϕ@ 300 C/C
C67,C68,C72,C73,C78,C81,C96	F6	07	3.000	2.650	525	350	1200	16 ϕ@ 125 C/C	16 ϕ@ 125 C/C	8 ϕ@ 300 C/C	8 ϕ@ 300 C/C

SCHEDULE OF RAFT SLAB

SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS	650	16ϕ@100C/C	16ϕ@100C/C	16ϕ@100C/C	16ϕ@100C/C



TYPICAL DETAIL OF ISOLATED FOUNDATION
SCALE N.T.S.

SCHEDULE OF RAFT BEAMS

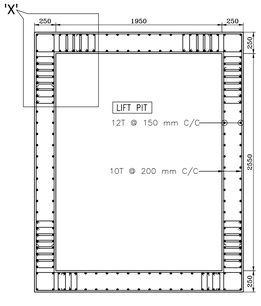
BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SPAN (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SUPPORT (d)	STIRRUPS
RFB1	900	700	9-12 ϕ	–	9-12 ϕ	4-12 ϕ	6L-8 ϕ@200 C/C
RFB2	850	700	9-12 ϕ	–	9-12 ϕ	–	6L-8 ϕ@200 C/C
RFB3	800	700	8-12 ϕ	–	8-12 ϕ	6-12 ϕ	4L-10 ϕ@100 C/C
RFB4	800	700	8-12 ϕ	–	8-12 ϕ	7-12 ϕ	4L-10 ϕ@100 C/C
RFB5	1100	700	11-12 ϕ	6-12 ϕ	11-12 ϕ	8-12 ϕ	6L-8 ϕ@200 C/C
RFB6	400	700	4-12 ϕ	–	4-12 ϕ	3-12 ϕ	4L-8 ϕ@200 C/C
RFB7	400	700	4-12 ϕ	2-12 ϕ	4-12 ϕ	4-12 ϕ	4L-8 ϕ@200 C/C
RFB8	800	700	8-12 ϕ	–	8-12 ϕ	8-12 ϕ	4L-8 ϕ@200 C/C
RFB9	750	700	8-12 ϕ	–	8-12 ϕ	–	4L-8 ϕ@200 C/C
RFB10	750	700	8-12 ϕ	–	8-12 ϕ	4-12 ϕ	4L-8 ϕ@100 C/C

NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

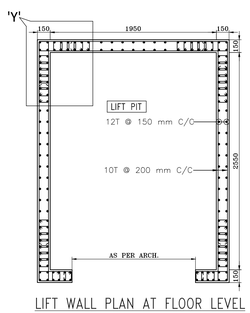
TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/M²)
ISOLATED	2.625m. x 2.300m.	16.8
	3.200m. x 2.875m.	16.1
	2.800m. x 2.300m.	16.7
	2.900m. x 2.400m.	16.6
	3.450m. x 2.800m.	16.2
	3.000m. x 2.650m.	16.3
RAFT	AS SHOWN IN DRAWING	13.5

SPECIAL NOTE:–
THIS DESIGN WILL NOT BE VALID IF THIS BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER.

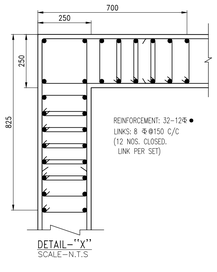
SPECIAL NOTES:–
1. THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.



LIFT WALL PLAN AT BASE LEVEL
SECTION (R-R)
SCALE 1:25



LIFT WALL PLAN AT FLOOR LEVEL
SECTION (S-S)
SCALE 1:25



DETAIL-"X"
SCALE-N.T.S

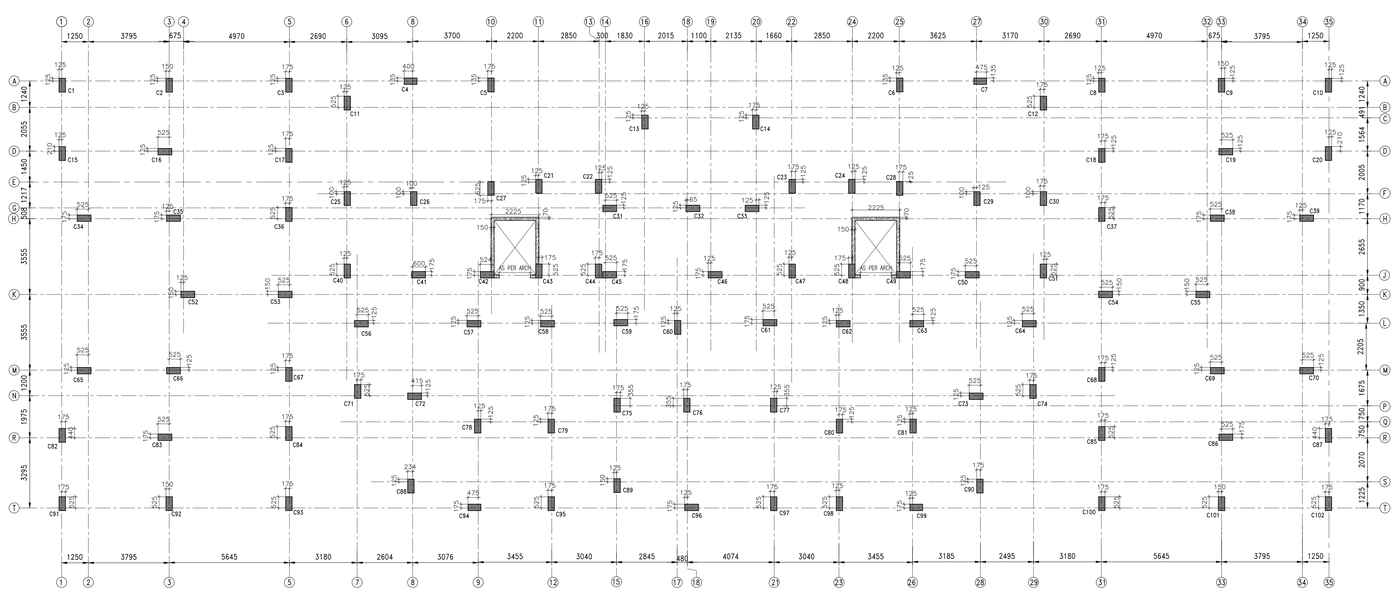
STRUCTURAL CONSULTANT:

STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR
968, KALIKAPUR ROAD,
KOLKATA- 700 099
Email-structconenterprise@gmail.com
Ph.-8697517321, 7003201735

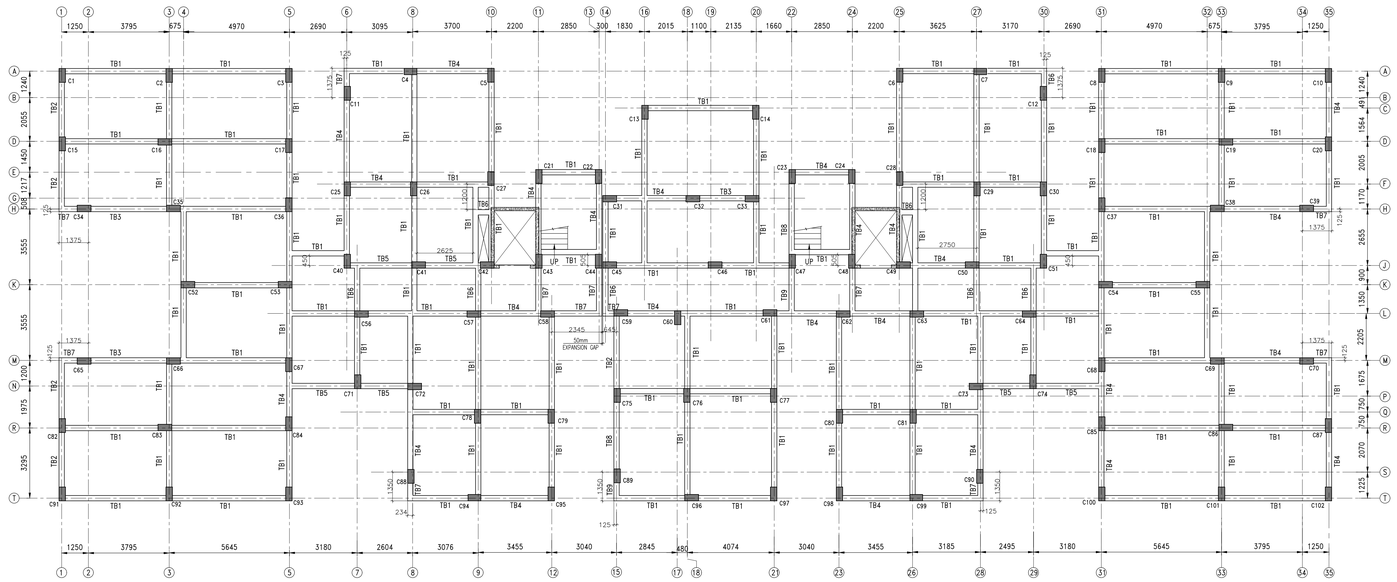
DRAWING TITLE

FOUNDATION LAYOUT PLAN WITH REINFORCEMENT DETAILS.

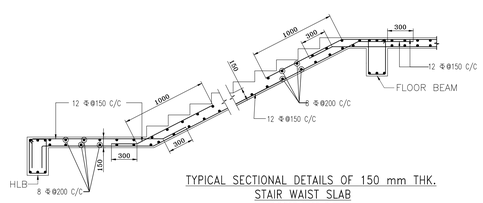
SCALE.-1:100 OR AS SHOWN
DATE.- 01.12.2022.
SHEET NO.- 1 OF 3
SHEET SIZE- A0



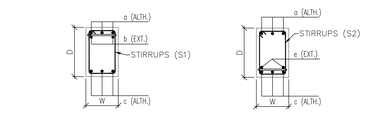
COLUMN LAYOUT PLAN
SCALE-1:100



TIE BEAM LAYOUT PLAN AT LEVEL (+) 0.150m.
SCALE- 1:100

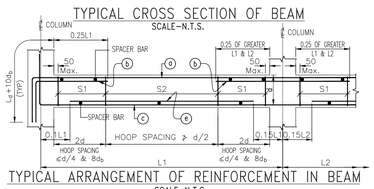


TYPICAL SECTIONAL DETAILS OF 150 mm THK. STAIR WAIST SLAB
SCALE-N.T.S.



AT SUPPORT AT SPAN

TYPICAL CROSS SECTION OF BEAM
SCALE-N.T.S.



TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM
SCALE-N.T.S.

SCHEDULE OF COLUMNS

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO 4TH FLOOR	4TH FLOOR TO ROOF/ ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING: NEAR JUNCTION (lo)	STIRRUP ARRANGEMENT & SPACING: REST PORTION
C4,C7,C94, C99	04	300X600	300 / 600 — MAIN RNF.:– 12–16 Φ●	300 / 600 — MAIN RNF.:– 8–16 Φ● +4–12 Φ○	8 Φ@75 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK)	8 Φ@150 C/C (3 NOS. CLOSED LINK) (1 NO. OPEN LINK)
C2,C16,C19, C83,C86,C88 C92,C96	08	300X650	300 / 650 — MAIN RNF.:– 14–16 Φ●	300 / 650 — MAIN RNF.:– 14–16 Φ●	8 Φ@75 C/C (4 NOS. CLOSED LINK)	8 Φ@150 C/C (4 NOS. CLOSED LINK)
C1,C3,C5,C6,C8,C9,C10,C11,C12, C13,C14,C15,C17,C18,C20,C21,C22, C23,C24,C25,C26,C27,C28,C29,C30, C31,C32,C33,C34,C35,C36,C37,C38, C39,C40,C41,C42,C43,C44,C45,C46, C47,C48,C49,C50,C51,C52,C53,C54, C55,C56,C57,C58,C59,C60,C61,C62, C63,C64,C65,C66,C67,C68,C69,C70, C71,C72,C73,C74,C75,C76,C77,C78, C79,C80,C81,C82,C84,C85,C87,C89, C90,C91,C93,C95,C97,C98,C100, C101,C102	90	300X650	300 / 650 — MAIN RNF.:– 14–16 Φ●	300 / 650 — MAIN RNF.:– 14–16 Φ●	8 Φ@75 C/C (4 NOS. CLOSED LINK)	8 Φ@150 C/C (4 NOS. CLOSED LINK)

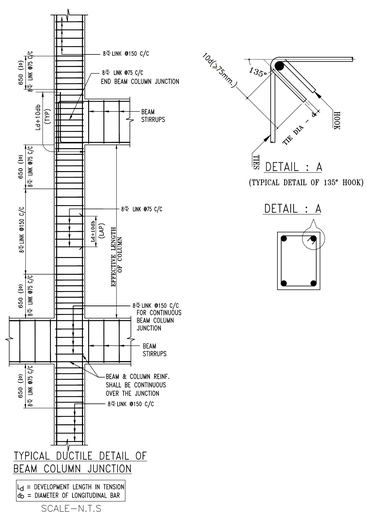
SCHEDULE OF STOOL COLUMNS

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	ROOF TO ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
STC (ROOF TO WATER TANK)	01	250x250	250 / 250 — MAIN RNF.:– 4–16 Φ●	8 Φ@150 C/C (1 NO. CLOSED LINK)

SCHEDULE OF TIE BEAMS

BEAM MARKED	BEAM SIZE: WIDTH (W) (mm)	BEAM SIZE: DEPTH (D) (mm)	TOP REINFORCEMENT: ALTHROUGH (a)	TOP REINFORCEMENT: EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT: ALTHROUGH (c)	BOTTOM REINFORCEMENT: EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
TB1	250	400	2–12 Φ +1–16 Φ	–	2–12 Φ +1–16 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
TB2	250	400	2–12 Φ +1–16 Φ	–	2–16 Φ +1–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
TB3	250	400	2–12 Φ +1–16 Φ	2–12 Φ	2–12 Φ +1–16 Φ	2–12 Φ	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
TB4	250	400	2–12 Φ +1–16 Φ	2–12 Φ	2–12 Φ +1–16 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
TB5	250	400	3–16 Φ	–	3–16 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
TB6	250	400	2–12 Φ +1–16 Φ	–	2–12 Φ +1–16 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@100 C/C
TB7	250	400	UR(F) 2–12 Φ +1–16 Φ; UR(S) 2–12 Φ +1–12 Φ	–	2–12 Φ +1–16 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@100 C/C
TB8	250	400	2–12 Φ +1–12 Φ	2–12 Φ	2–16 Φ +1–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
TB9	250	400	UR(F) 2–12 Φ +1–16 Φ; UR(S) 2–12 Φ +1–12 Φ	–	2–16 Φ +1–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@100 C/C

SPECIAL NOTES:–
1. THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.



TYPICAL DUCTILE DETAIL OF BEAM COLUMN JUNCTION

Ld = DEVELOPMENT LENGTH IN TENSION
db = DIAMETER OF LONGITUDINAL BAR

SCALE–N.T.S

DETAIL : A
(TYPICAL DETAIL OF 135° HOOK)

DETAIL : A

NOTES :

1. UNLESS OTHERWISE STATED ALL CONSTRUCTION WORK SHALL BE CARRIED OUT CONFORMING TO RELEVANT INDIAN STANDARD CODES OF PRACTICE.
2. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS IN METERS EXCEPT OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS AND INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH).
3. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe–500/500D CONFORMING TO IS–1786–2008.
5. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50xBAR DIA.
6. 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
7. GRADE OF CONCRETE FOR SUPERSTRUCTURE UPTO AND INCLUDING 4TH FLOOR WILL BE M30 AND ABOVE THAT WILL BE M25 AS PER IS:456:2000.
8. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
9 DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
10. 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.
11. WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE.
12. ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UPTO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

TITLE (BLOCK–A)

STRUCTURAL DRAWING OF PROPOSED (BLOCK–A) G+8 STORIED COMMERCIAL CUM RESIDENTIAL BUILDING (APARTMENT HOUSING PROJECT) OF SRI ASHIS RAY,SRI SASWAT RAY, MANORAMA RAY, MD MUSLIM & MD REZAUR RAHAMAN OVER L.R. PLOT NO. – 135 ,R.S PLOT NO.–135, KHATIAN NO.– 352,355,356,362 & 402 MOUZA –RAIDI, BLOCK–KULTI, J.L. NO– 29, P.S.– KULTI, DIST – PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT/ENGINEER

Ar. VIJAYA SINGH MAZUMDER
COA REGISTERED
CA/2021/134276

SIGNATURE OF GEOTECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

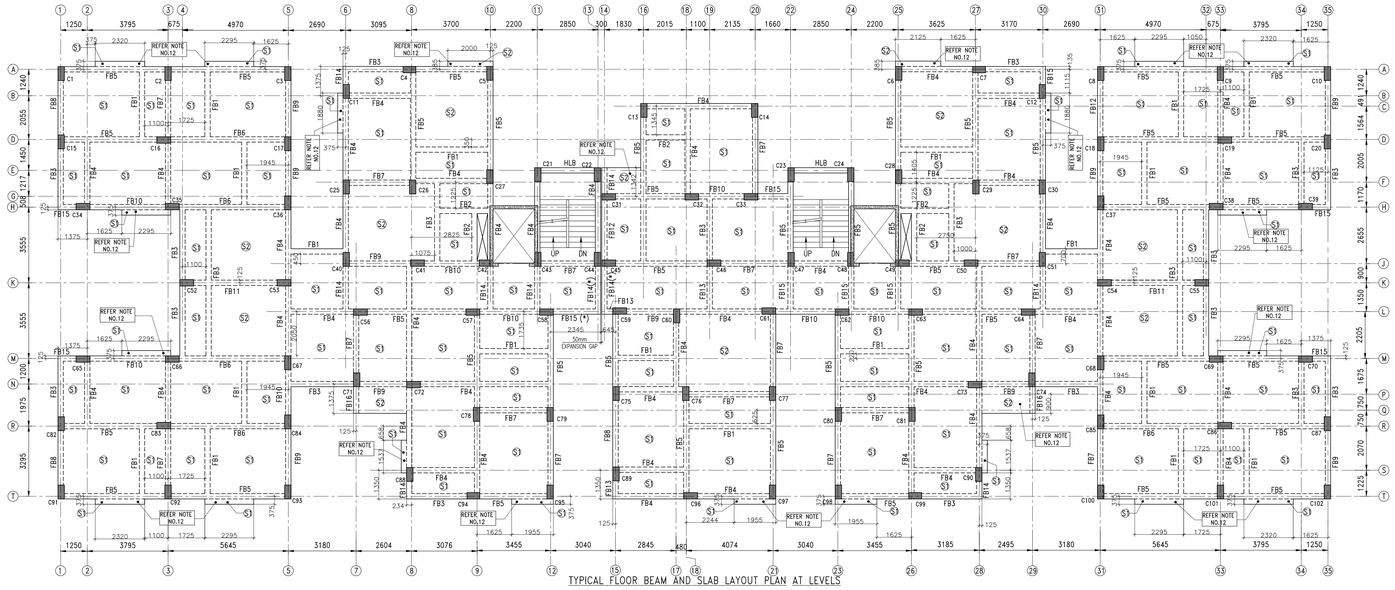
STRUCTURAL CONSULTANT:

STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR
968, KALIKAPUR ROAD,
KOLKATA– 700 099
Email–structconenterprise@gmail.com
Ph.–8697517321, 7003201735

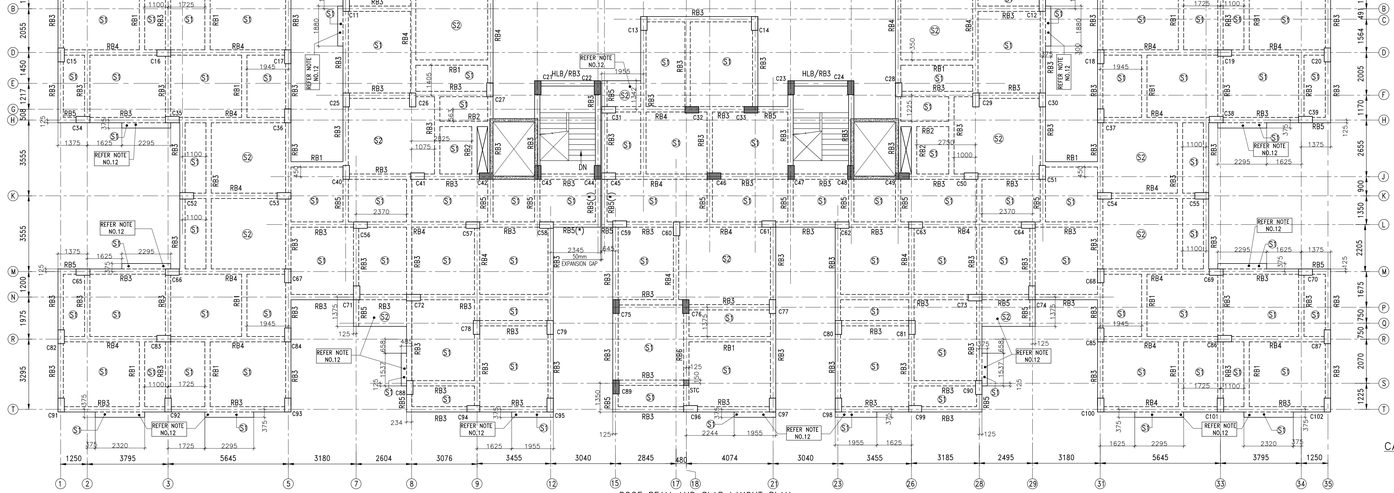
DRAWING TITLE

COLUMN AND TIE BEAM LAYOUT PLAN WITH REINFORCEMENT DETAILS.

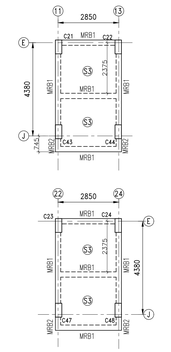
SCALE.–1:100 OR AS SHOWN
DATE.– 01.12.2022.
SHEET NO.– 2 OF 3 | SHEET SIZE– A0



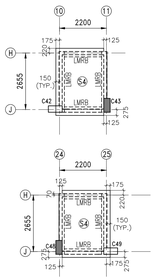
TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVELS
(+)3.20m,(+)6.25m,(+)9.300m.,(+)12.35m,(+)15.40m,
(+)18.45m,(+)21.50m,(+)24.55m
S1 MARKED SLABS ARE 115 mm THICK.
S2 MARKED SLABS ARE 125 mm THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE- 1:100
"*" MARKED BEAMS SHOULD BE CAST WITH UPWARD PRE-CAMBER OF 8 mm AT TIP.



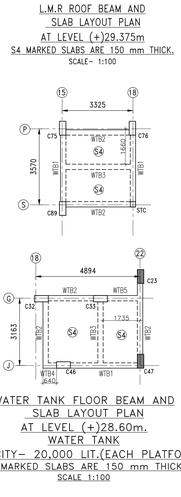
ROOF BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)27.60m
S1 MARKED SLABS ARE 115 mm THICK.
S2 MARKED SLABS ARE 125 mm THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE- 1:100
"*" MARKED BEAMS SHOULD BE CAST WITH UPWARD PRE-CAMBER OF 8 mm AT TIP.



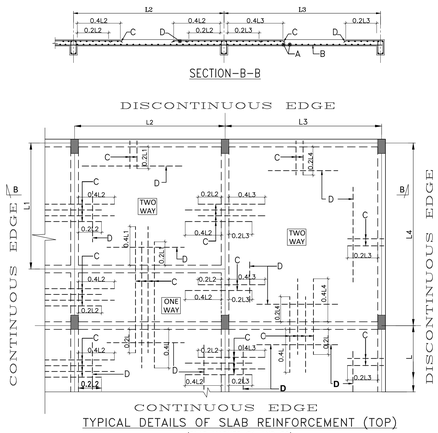
MUMTY ROOF BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)30.025m
S3 MARKED SLABS ARE 115 mm THICK.
SCALE- 1:100



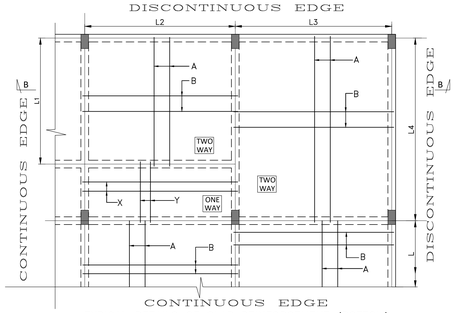
L.M.R ROOF BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)29.375m
S4 MARKED SLABS ARE 150 mm THICK.
SCALE- 1:100



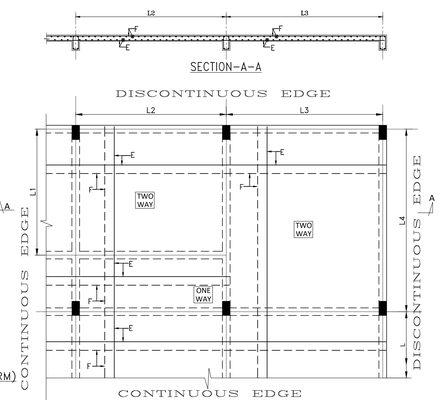
WATER TANK FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)28.60m.
WATER TANK
CAPACITY- 20,000 LIT.(EACH PLATFORM)
S4 MARKED SLABS ARE 150 mm THICK.
SCALE 1:100



CONTINUOUS EDGE
TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP)
(SLAB MARKED S1 AND S2)
(SCALE-N.T.S)



CONTINUOUS EDGE
TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)
(SLAB MARKED S1 AND S2)
(SCALE - N.T.S.)



CONTINUOUS EDGE
TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP & BOTTOM)
(SLAB MARKED S3 AND S4)
(SCALE-N.T.S)

SCHEDULE OF TYPICAL FLOOR BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
FB1	250	400	2-12 Φ + 1-16 Φ	–	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
FB2	250	400	2-12 Φ + 1-16 Φ	–	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
FB3	250	450	2-12 Φ + 1-12 Φ	–	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB4	250	450	2-12 Φ + 1-12 Φ	3-12 Φ	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB5	250	450	2-12 Φ + 1-12 Φ	3-16 Φ	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB6	250	450	2-12 Φ + 1-12 Φ	3-20 Φ	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB7	250	450	UKSE: 2-16 Φ + 1-12 Φ	–	2-16 Φ + 1-12 Φ	2-12 Φ	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB8	250	450	UKSE: 2-16 Φ + 1-12 Φ	–	UKSE: 2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB9	250	450	UKSE: 2-16 Φ + 1-12 Φ	–	UKSE: 2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB10	250	450	UKSE: 2-16 Φ + 1-12 Φ	3-16 Φ	UKSE: 2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB11	250	450	2-16 Φ + 1-12 Φ	3-20 Φ	2-16 Φ + 1-12 Φ	3-12 Φ	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB12	250	450	UKSE: 2-16 Φ + 1-12 Φ	–	UKSE: 2-16 Φ + 1-12 Φ	2-12 Φ	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
FB13	250	450	UKSE: 3-16 Φ + 1-12 Φ	–	2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
FB14	250	450	UKSE: 2-16 Φ + 1-12 Φ	–	UKSE: 2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
FB15	250	450	UKSE: 2-16 Φ + 1-12 Φ	–	UKSE: 3-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
FB16	250	450	UKSE: 2-16 Φ + 1-12 Φ	–	UKSE: 2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
HLB	250	450	3-16 Φ	3-12 Φ	3-16 Φ	2-12 Φ	2L-8 Φ@100 C/C	2L-8 Φ@150 C/C

SCHEDULE OF ROOF BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
RB1	250	400	2-12 Φ + 1-16 Φ	–	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
RB2	250	400	2-12 Φ + 1-16 Φ	–	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
RB3	250	450	2-12 Φ + 1-16 Φ	–	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
RB4	250	450	2-12 Φ + 1-16 Φ	3-12 Φ	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
RB5	250	450	2-12 Φ + 1-16 Φ	–	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
RB6	250	450	2-12 Φ + 1-16 Φ	3-16 Φ	2-12 Φ + 1-16 Φ	2-12 Φ	2L-8 Φ @75 C/C	2L-8 Φ@150 C/C
HLB	250	450	3-16 Φ	3-12 Φ	3-16 Φ	2-12 Φ	2L-8 Φ@100 C/C	2L-8 Φ@150 C/C

SCHEDULE OF ABOVE ROOF BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
LMR9	250	400	2-16 Φ + 1-12 Φ	–	2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
MRB1	250	400	2-12 Φ + 1-16 Φ	–	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
MRB2	250	400	2-12 Φ + 1-16 Φ	–	2-12 Φ + 1-16 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
WTB1	250	400	2-16 Φ + 1-12 Φ	3-12 Φ	2-16 Φ + 1-12 Φ	3-12 Φ	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
WTB2	250	400	2-16 Φ + 1-12 Φ	–	2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@200 C/C
WTB3	250	400	2-16 Φ + 1-12 Φ	–	2-16 Φ + 1-12 Φ	3-16 Φ	2L-8 Φ@100 C/C	2L-8 Φ@150 C/C
WTB4	250	400	UKSE: 2-16 Φ + 1-12 Φ	–	UKSE: 2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C
WTB5	250	400	UKSE: 2-16 Φ + 1-12 Φ	–	UKSE: 2-16 Φ + 1-12 Φ	–	2L-8 Φ@100 C/C	2L-8 Φ@100 C/C

SCHEDULE OF S1 AND S2 MARKED SLABS
(TYPICAL FLOOR & ROOF SLABS
THICKNESS-115mm & 125mm)

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# @ 150mm C/C (CURTAILMENT)	TOP
D(BINDER)	8# @ 200 mm C/C (WHEREVER REQUIRED)	TOP

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

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

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

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

SPECIAL NOTES:-
1. THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.

NOTES :

1. UNLESS OTHERWISE STATED ALL CONSTRUCTION WORK SHALL BE CARRIED OUT CONFORMING TO RELEVANT INDIAN STANDARD CODES OF PRACTICE.
2. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS IN METERS EXCEPT OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWING AND INDICATE STRUCTURAL LEVEL ONLY (WITHOUT FINISH).
3. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500D CONFORMING TO IS-1786-2008.
5. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50xBAR DIA.
6. 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
7. GRADE OF CONCRETE FOR SUPERSTRUCTURE UPTO AND INCLUDING 4TH FLOOR WILL BE M30 AND ABOVE THAT WILL BE M25 AS PER IS:456:2000.
8. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
9. DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
10. 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.
11. WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE.
12. ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UPTO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

TITLE (BLOCK-A)

STRUCTURAL DRAWING OF PROPOSED (BLOCK-A) G+8 STORIED COMMERCIAL CUM RESIDENTIAL BUILDING (APARTMENT HOUSING PROJECT) OF SRI ASHIS RAY,SRI SASWAT RAY, MANORAMA RAY, MD MUSLIM & MD REZAUR RAHAMAN OVER L.R. PLOT NO. - 135 ,R.S PLOT NO.-135, KHATIAN NO.- 352,355,356,362 & 402 MOUZA -RAIDI, BLOCK-KULTI, J.L. NO- 29, P.S.- KULTI, DIST - PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT/ENGINEER

Ar. VIJAYA SINGH MAZUMDER
COA REGISTERED
CA/2021/134276

SIGNATURE OF GEOTECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

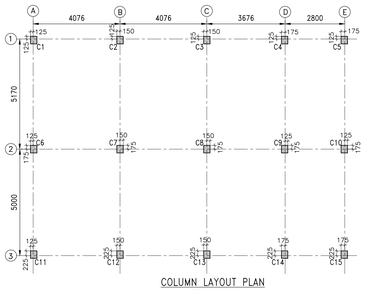
STRUCTURAL CONSULTANT:

STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT,
GROUND FLOOR
968, KALIKAPUR ROAD,
KOLKATA- 700 099
Email-structconenterprise@gmail.com
Ph.-8697517321, 7003201735

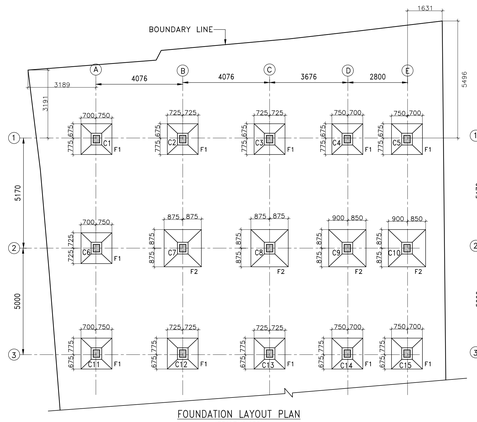
DRAWING TITLE

TYPICAL FLOOR, ROOF AND ABOVE ROOF BEAM AND SLAB LAYOUT PLAN WITH REINF. DETAILS.

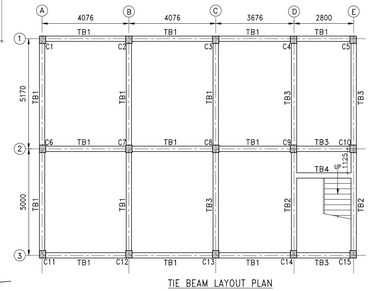
SCALE.-1:100 OR AS SHOWN
DATE.- 01.12.2022.
SHEET NO.- 3 OF 3 | SHEET SIZE- A0



COLUMN LAYOUT PLAN
SCALE-1:100



FOUNDATION LAYOUT PLAN
SCALE-1:100



TIE BEAM LAYOUT PLAN
AT LEVEL (+)0.150m.
SCALE 1:100

SCHEDULE OF COLUMNS

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO ROOF/ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING	
				NEAR JUNCTION(lo)	REST PORTION
C1,C2,C3, C5,C11, C12,C13	07	300X350	300 / 350 MAIN RNF.:– 4–16 Φ ● +4–12 Φ ○	8 Φ Φ75 C/C (2 NOS. CLOSED LINK)	8 Φ Φ150 C/C (2 NOS. CLOSED LINK)
C4	01	300X350	300 / 350 MAIN RNF.:– 6–16 Φ ● +2–12 Φ ○	8 Φ Φ75 C/C (2 NOS. CLOSED LINK)	8 Φ Φ150 C/C (2 NOS. CLOSED LINK)
C6,C7,C8,C9, C10,C14,C15	07	300X350	300 / 350 MAIN RNF.:– 6–12 Φ ● +2–16 Φ ○	8 Φ Φ75 C/C (2 NOS. CLOSED LINK)	8 Φ Φ150 C/C (2 NOS. CLOSED LINK)

SCHEDULE OF STOOL COLUMNS

COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	ROOF TO ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
ST1,ST2(ROOF TO WATER TANK)	02	250x250	250 / 250 MAIN RNF.:– 4–16 Φ ●	8 Φ Φ150 C/C (1 NOS. CLOSED LINK)

SCHEDULE OF S1 & S2 MARKED SLABS (FIRST FLOOR AND ROOF SLABS THICKNESS– 115mm & 125mm)

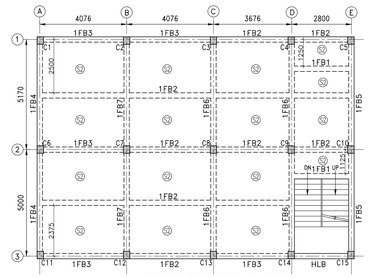
BAR MKD.	REINFORCEMENT	POSITION
A	8# @ 150 mm C/C (ALL THROUGH)	BOT.
B	8# @ 150 mm C/C (ALL THROUGH)	BOT.
X	8# @ 150 mm C/C (ALL THROUGH)	BOT.
Y	8# @ 150 mm C/C (ALL THROUGH)	BOT.
C	8# @ 150mm C/C (CURTAILMENT)	TOP
D(BINDER)	8# @ 200 mm C/C (WHEREVER REQUIRED)	TOP

SCHEDULE OF S4 MARKED SLABS (WATER TANK SLAB THICKNESS–135mm.)

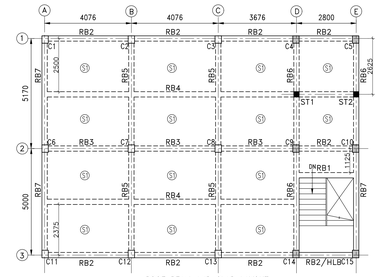
BAR MKD.	REINFORCEMENT	POSITION
E	10T @ 200 mm C/C (ALL THROUGH)	BOT.
F	10T @ 200 mm C/C (ALL THROUGH)	TOP

SCHEDULE OF S3 MARKED SLABS(MUMTY SLAB THICKNESS–115mm.)

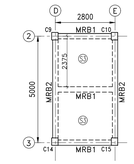
BAR MKD.	REINFORCEMENT	POSITION
E	8T @ 150 mm C/C (ALL THROUGH)	BOT.
F	8T @ 150 mm C/C (ALL THROUGH)	TOP



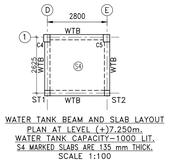
1ST FLOOR BEAM AND SLAB LAYOUT
PLAN AT LEVEL(+)3.200m.
S2 MARKED SLABS ARE 125 mm THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE 1:100



ROOF BEAM AND SLAB LAYOUT
PLAN AT LEVEL(+)6.250m.
S1 MARKED SLABS ARE 115 mm THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE 1:100



MUMTY BEAM AND SLAB
LAYOUT PLAN AT LEVEL (+)8.675m.
S3 MARKED SLABS ARE 115 mm THICK.
SCALE 1:100



WATER TANK BEAM AND SLAB LAYOUT
PLAN AT LEVEL (+)7.250m.
WATER TANK CAPACITY–1000 LIT.
S4 MARKED SLABS ARE 135 mm THICK.
SCALE 1:100

SCHEDULE OF TIE BEAMS

BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
	WIDTH (W) (mm)	DEPTH (D) (mm)	ALTHROUGH (a)	EXTRA AT SUPPORT (b)	ALTHROUGH (c)	EXTRA AT SPAN (e)	(S1)	(S2)
TB1	250	300	2–12 Φ	–	2–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@150 C/C
TB2	250	300	3–12 Φ	2–16 Φ	3–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@150 C/C
TB3	250	300	2–12 Φ	2–12 Φ	2–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@150 C/C
TB4	250	300	2–12 Φ	–	2–12 Φ	2–12 Φ	2L–8 Φ@100 C/C	2L–8 Φ@150 C/C

SCHEDULE OF 1ST FLOOR BEAMS

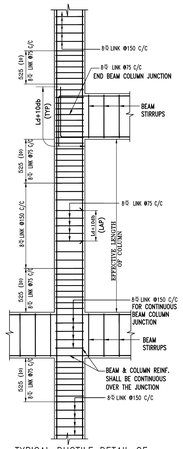
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
	WIDTH (W) (mm)	DEPTH (D) (mm)	ALTHROUGH (a)	EXTRA AT SUPPORT (b)	ALTHROUGH (c)	EXTRA AT SPAN (e)	(S1)	(S2)
1FB1	250	300	2–12 Φ	–	2–12 Φ	2–12 Φ	2L–8 Φ@100 C/C	2L–8 Φ@150 C/C
1FB2	250	350	3–12 Φ	–	3–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
1FB3	250	350	3–12 Φ	2–12 Φ	3–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
1FB4	250	350	3–12 Φ	3–12 Φ	3–12 Φ	2–12 Φ	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
1FB5	250	350	3–12 Φ	2–16 Φ	3–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
1FB6	250	350	3–12 Φ	3–16 Φ	3–12 Φ	2–16 Φ	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
1FB7	250	350	3–12 Φ / 2–12 Φ +1–16 Φ	3–16 Φ	3–12 Φ / 2–12 Φ +1–16 Φ	2–16 Φ	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
HLB	250	350	3–12 Φ	2–12 Φ	3–12 Φ	2–12 Φ	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C

SCHEDULE OF ROOF BEAMS

BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
	WIDTH (W) (mm)	DEPTH (D) (mm)	ALTHROUGH (a)	EXTRA AT SUPPORT (b)	ALTHROUGH (c)	EXTRA AT SPAN (e)	(S1)	(S2)
RB1	250	300	2–12 Φ	–	2–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
RB2	250	350	2–12 Φ	–	2–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
RB3	250	350	2–12 Φ	2–12 Φ	2–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
RB4	250	350	3–12 Φ	–	3–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
RB5	250	350	2–12 Φ / 2–16 Φ	3–16 Φ	3–12 Φ / 2–12 Φ +1–16 Φ	2–16 Φ	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
RB6	250	350	3–12 Φ	3–16 Φ	3–12 Φ	2–16 Φ	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
RB7	250	350	3–12 Φ	2–12 Φ	3–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C
HLB	250	350	3–12 Φ	2–12 Φ	3–12 Φ	2–12 Φ	2L–8 Φ@100 C/C	2L–8 Φ@200 C/C

SCHEDULE OF ABOVE ROOF BEAMS

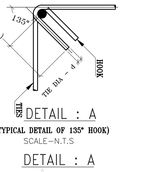
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)	STIRRUPS (AT SPAN)
	WIDTH (W) (mm)	DEPTH (D) (mm)	ALTHROUGH (a)	EXTRA AT SUPPORT (b)	ALTHROUGH (c)	EXTRA AT SPAN (e)	(S1)	(S2)
MRB1	250	300	2–12 Φ	–	2–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@150 C/C
MRB2	250	300	3–12 Φ	–	3–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@150 C/C
WTB	250	300	3–12 Φ	–	3–12 Φ	–	2L–8 Φ@100 C/C	2L–8 Φ@150 C/C



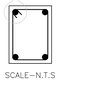
TYPICAL DUCTILE DETAIL OF
BEAM COLUMN JUNCTION

l_d = DEVELOPMENT LENGTH IN TENSION
d_b = DIAMETER OF LONGITUDINAL BAR

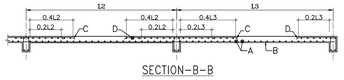
SCALE–N.T.S



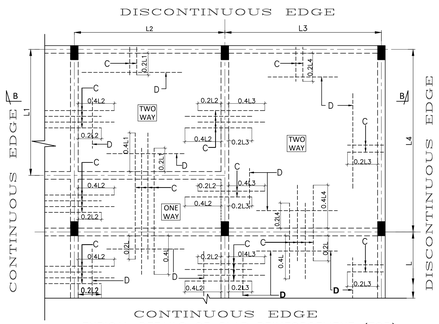
DETAIL : A
(TYPICAL DETAIL OF 135° HOOK)
SCALE–N.T.S



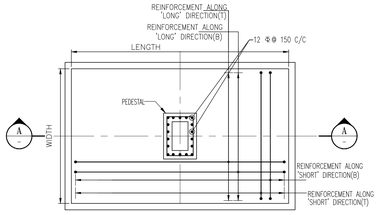
DETAIL : A
SCALE–N.T.S



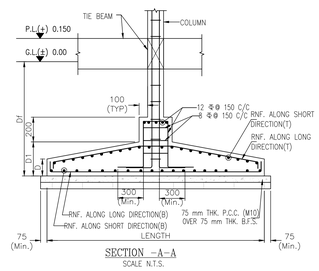
SECTION–B–B



TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP)
(SLAB MARKED S1 & S2)
(SCALE–N.T.S)



TYPICAL DETAIL OF ISOLATED FOUNDATION
SCALE N.T.S.

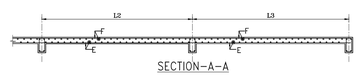


SECTION –A–A
SCALE N.T.S.

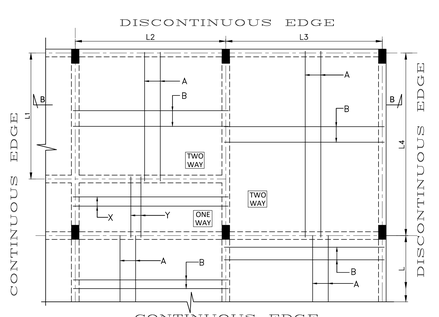
NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/M²)
ISOLATED	1.450m. x 1.450m.	17.0
	1.750m. x 1.750m.	16.9

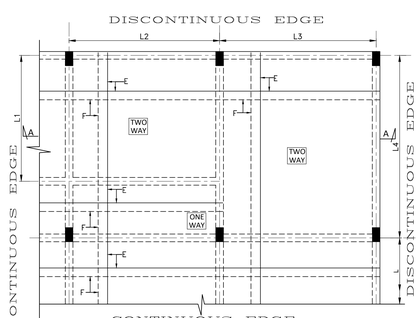
SPECIAL NOTE:–
THIS DESIGN WILL NOT BE VALID IF THIS BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO–TECHNICAL ENGINEER.



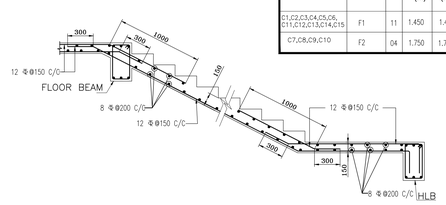
SECTION–A–A

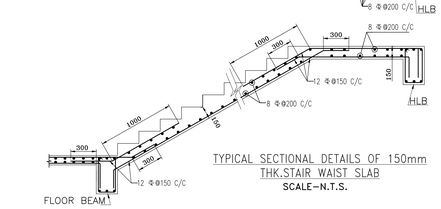


TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)
(SLAB MARKED S1 & S2)
(SCALE – N.T.S.)

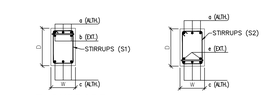


TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP & BOTTOM)
(SLAB MARKED S3 & S4)
(SCALE–N.T.S)

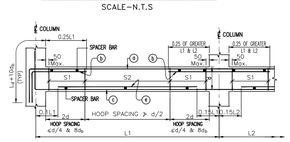




TYPICAL SECTIONAL DETAILS OF 150mm
THK.STAIR WAIST SLAB
SCALE–N.T.S.



AT SUPPORT AT SPAN
TYPICAL CROSS SECTION OF BEAM
SCALE–N.T.S



TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM
SCALE–N.T.S

SPECIAL NOTES:
1. THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.

NOTES :

1. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD PRACTICE.
2. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METERS. OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN STRUCTURAL DRAWINGS ARE IN REFERENCE TO ARCHITECTURAL DRAWINGS AND INDICATE STRUCTURAL LEVELS (WITHOUT FINISH).
3. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe–500/500D CONFORMING TO IS–1786–2008.
5. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50xBAR DIA.
6. 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) ISOLATED FOUNDATION : 50 mm
7. GRADE OF CONCRETE FOR SUPERSTRUCTURE & SUBSTRUCTURE WILL BE M25 AS PER IS: 456:2000.
8. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
9. DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
10. 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.
11. WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE.
12. ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UPTO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.
13. THE NET SAFE BEARING CAPACITIES FOR ALL ISOLATED FOOTINGS AT DEPTH (–)1.2m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. ASIM SARKAR.
14. THE ABOVE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
15. THE N VALUE AS DESCRIBED UNDER NOTES OF TABLE–1 OF IS–1893(PART–1)–2016 SHOULD BE ENSURED TO BE GREATER THAN 15 FOR VALIDITY OF THIS DESIGN AND DRAWING.

TITLE – (BLOCK–B)

STRUCTURAL DRAWING OF PROPOSED BLOCK–B (G+1) STORIED COMMERCIAL CUM RESIDENTIAL BUILDING (APARTMENT HOUSING PROJECT) OF SRI ASHIS RAY, SRI SASWAT RAY, MANORAMA RAY, MD MUSLIM & MD REZAUR RAHAMAN OVER L.R. PLOT NO.–135,R.S PLOT NO.–135, KHATIAN NO.– 352, 355,356,362 & 402 MOUZA –RAIDI, BLOCK– KULTI, J.L. NO–29, P.S.–KULTI, DIST–PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT

Ar. VIJAYA SINGH MAZUMDER
COA REGISTERED
CA/2021/134276

SIGNATURE OF GEO–TECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT:

STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR
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KOLKATA– 700 099
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DRAWING TITLE

FOUNDATION, COLUMN, BEAM AND SLAB LAYOUT PLAN WITH REINF. DETAILS.

SCALE.–1:100 OR AS SHOWN
DATE.–19.11.2022
SHEET NO. – 1 OF 1
SHEET SIZE – A0