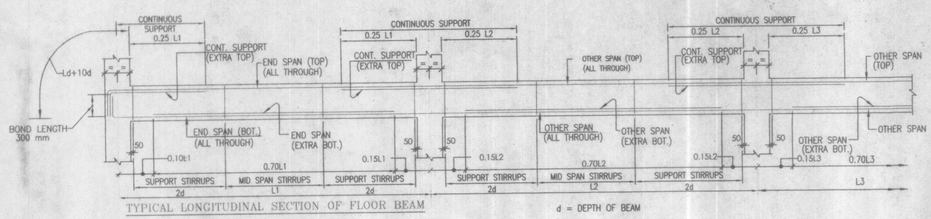
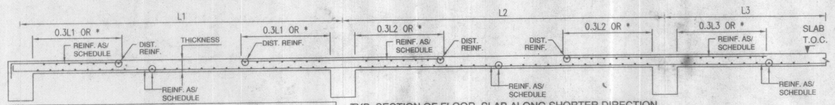


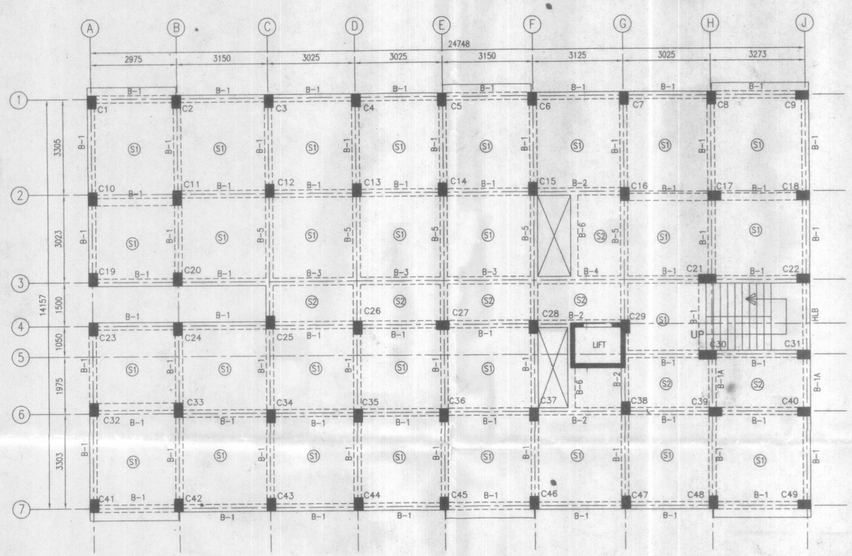
TYPICAL LONGITUDINAL SECTION OF FLOOR BEAM

d = DEPTH OF BEAM



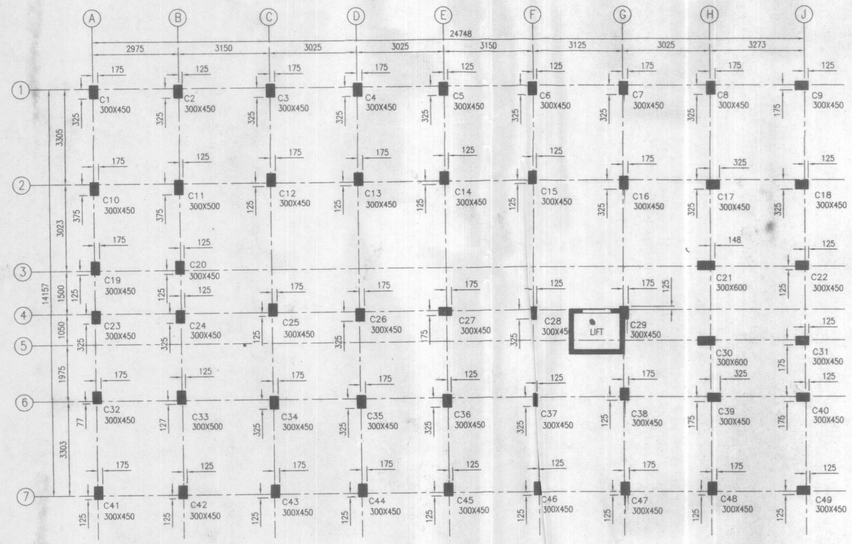
NOTE:
AT CONTINUOUS SUPPORTS COMMON TO SLABS OF TWO DIFFERENT MARKS, PROVIDE HIGHER AERA OF REINF. AT TOP BETWEEN THE TWO DIFFERENTLY MARKED SLABS.

TYP. SECTION OF FLOOR SLAB ALONG SHORTER DIRECTION
(* DEVELOPMENT LENGTH, WHICHEVER IS GREATER)



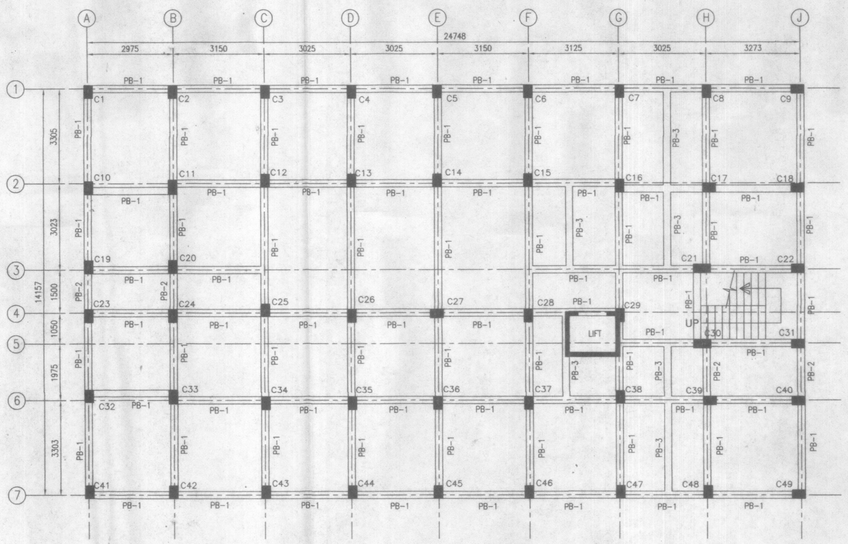
G.A OF TYPICAL FLOOR BEAM SLAB LAYOUT PLAN (BLOCK –A)

SCALE–1:100



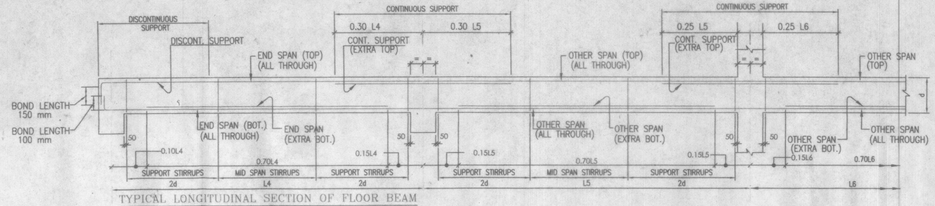
G.A OF COLUMN LAYOUT PLAN (BLOCK–A)

SCALE–1:100



G.A OF PLINTH BEAM LAYOUT PLAN (BLOCK–A)

SCALE–1:100



TYPICAL LONGITUDINAL SECTION OF FLOOR BEAM

SCHEDULE OF COLUMNS:

GRADE OF CONCRETE : M25 & GRADE OF STEEL: Fe500

ROOF TO FOUNDATION	300 × 600, M-25, 12 –16T	300 × 500, M-25, 12 –16T	300 × 450, M-25, 10 –16T
COL. SIZE	(300 X 600)	(300 X 500)	(300 X 450)
COL. MKD.	C21, C30	C11, C33	REST COLUMNS
LINK	8T @ 75 / 150 C/C	8T @ 75 / 150 C/C	8T @ 75 / 150 C/C

SCHEDULE OF FLOOR BEAM:

(GRADE OF CONCRETE : M25 & GRADE OF STEEL : Fe500)

BEAM MKD.	BEAM SIZE	MAIN REINFORCEMENT				STIRRUPS	
		SUPPORT		SPAN			
		TOP	BOT.	TOP	BOT.	SUPPORT	SPAN
B-1	250X400	3 -16ϕ+ 2 -12ϕ	3 -16ϕ	2 -16ϕ	3 -16ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 150 C/C
B-1A	250X400	3 -16ϕ+ 2 -12ϕ	3 -16ϕ	3 -16ϕ+ 2 -12ϕ	3 -16ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 100 C/C
B-2	250X400	3 -16ϕ+ 2 -16ϕ	3 -16ϕ	2 -16ϕ	3 -16ϕ+ 2 -12ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 100 C/C
B-3	250X400	3 -16ϕ	3 -16ϕ	2 -16ϕ	3 -16ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 150 C/C
B-4	250X400	3 -16ϕ	2 -16ϕ	2 -16ϕ	3 -16ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 100 C/C
B-5	250X400	3 -16ϕ+ 3 -16ϕ	2 -16ϕ	2 -16ϕ	3 -16ϕ+ 2 -16ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 100 C/C
B-6	250X400	2 -16ϕ	2 -16ϕ	2 -16ϕ	2 -16ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 150 C/C
HLB	250X400	3 -16ϕ+ 2 -16ϕ	2 -16ϕ	2 -16ϕ	3 -16ϕ+ 2 -12ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 100 C/C

SCHEDULE OF PLINTH BEAM:

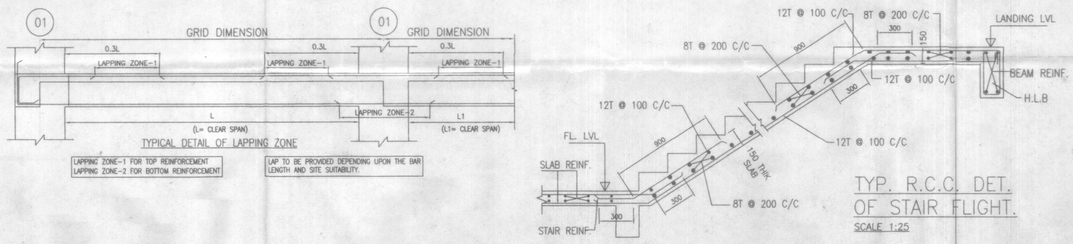
(GRADE OF CONCRETE : M25 & GRADE OF STEEL : Fe500)

BEAM MKD.	BEAM SIZE	MAIN REINFORCEMENT				STIRRUPS	
		SUPPORT		SPAN			
		TOP	BOT.	TOP	BOT.	SUPPORT	SPAN
PB-1	250X400	3 -16ϕ	3 -16ϕ	3 -16ϕ	3 -16ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 150 C/C
PB-2	250X400	3 -16ϕ	3 -16ϕ	3 -16ϕ	3 -16ϕ	8ϕ- 2L @ 100 C/C	8ϕ- 2L @ 100 C/C
PB-3	250X400	3 -12ϕ	3 -12ϕ	3 -12ϕ	3 -12ϕ	8ϕ- 2L @ 150 C/C	8ϕ- 2L @ 150 C/C
PB-4	250X400	2 -16ϕ	3 -16ϕ	2 -16ϕ	3 -16ϕ	8ϕ- 2L @ 150 C/C	8ϕ- 2L @ 150 C/C

SCHEDULE OF FLOOR SLAB:

(GRADE OF CONCRETE :M25 & GRADE OF STEEL :Fe500)

SLAB MKD.	SLAB THICKNESS (MM)	REINFORCEMENT			
		SHORTER SPAN		LONGER SPAN	
		SUPPORT (TOP)	SPAN (BOTTOM)	SUPPORT (TOP)	SPAN (BOTTOM)
S1	125	8ϕ@ 125 C/C	8ϕ @ 150 C/C	8ϕ @ 150 C/C	8ϕ @ 175 C/C
S2	125	8ϕ@ 175 C/C	8ϕ @ 200 C/C	8ϕ @ 175 C/C	8ϕ @ 200 C/C
PROVIDE 8ϕ@ 200 C/C DISTRIBUTOR BAR WHERE EVER REQUIRED					



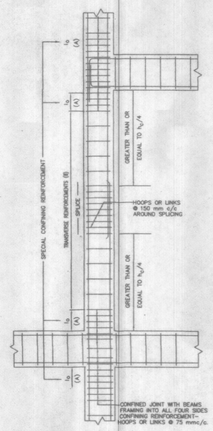
TYPICAL DETAIL OF LAPPING ZONE

LAPPING ZONE–1 FOR TOP REINFORCEMENT
LAPPING ZONE–2 FOR BOTTOM REINFORCEMENT

LAP TO BE PROVIDED DEPENDING UPON THE BAR LENGTH AND SITE SUITABILITY.

TYP. R.C.C. DET. OF STAIR FLIGHT.

SCALE 1:25



COLUMN AND JOINT DETAILING

SPL. NOTES:–

1. THE LENGTH "Lo" SHALL NOT BE LESS THAN EITHER OF THE FOLLOWING: (a) LARGER LATERAL DIMENSION OF THE MEMBER AT THE SECTION, (b) 1/6 OF CLEAR SPAN OF THE MEMBER, AND (C) 450 mm.]

NOTES:–

1. ALL DIMENSIONS ARE IN MM. UNLESS OTHERWISE MENTIONED.
2. SUPER STRUCTURE : SUPER STRUCTURE SHALL BE OF LIGHT WEIGHT A.A.C BLOCK IN 1:6 CEMENT MORTER.
3. GRADE OF CONC. M–25, OTHERWISE MENTIONED
4. ALL MATERIALS SHALL CONFORM TO RELEVANT I.S CODES.
5. FOR STEEL GRADE Fe 500 AS PER I.S 1786–2008.
6. LAPS, SPLICES & BOND LENGTH SHOULD BE 50 D WHERE 'D' IS THE SMALLEST BAR DIA.
7. ALL DISTRIBUTION BARS ARE 8 TOR @ 200 C/C AND TO BE PROVIDED WHEREVER REQUIRED
8. ALL SPACER BARS ARE 25 TOR @ 1000 C/C AND TO BE PROVIDED WHEREVER REQUIRED
9. MINIMUM CLEAR COVER TO MAIN REINFORCEMENT IS AS FOLLOWS:

MEMBER	TOP	BOTTOM	SIDE
a. BEAM	25	25	25
b. COLUMN	—	—	40
c. SLAB	20	20	20
d. PILECAP	60	75	60

SPACE FOR OFFICE USE:

May be Technically vetted

Assistant Engineer
Hooghly Zilla Parishad

Technically vetted

District Engineer
Hooghly Zilla Parishad

THIS IS TO CERTIFY THAT I SHALL NOT ON A LATER DATE, MAKE ANY ADDITION OR ALTERATION TO THIS PLAN. THIS IS CERTIFIED THAT I HAVE GONE THROUGH THE NBC OF INDIA AND ALSO ABIDE BY THOSE RULES DURING AND LATER CONSTRUCTION OF BUILDING.

SIGNATURE OF THE OWNER

TANMOY DAS
B.Tech (Civil), M.Tech (Struc. Engg.) (Pursuing)
AMIE, MIGS, Chartered Engineer
Empanelled L.B.S. (Class–I)
Kolkata Municipal Corporation
License No.- LBS/I/1680

SIGNATURE OF ARCHITECT/L.B.S

THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME. CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER, THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT IF IT IS CONSTRUCTED AS PER THIS DRAWING.

TANMOY DAS
B.Tech (Civil), M.Tech (Struc. Engg.) (Pursuing)
AMIE, MIGS, Chartered Engineer
Empanelled Structural Engineer
Kolkata Municipal Corporation
License No.- ESE/I/291

SIGNATURE OF STRUCTURAL ENGINEER.

VETTED BY:

Checked & Vetted

Dr. Partha Ghosh
B. E. (Civil), M.E. (Structural Engg.), Ph. D. (Engg.)
Professor
Construction Engg. Department
Jadavpur University, Kolkata - 700 106

PROJECT :

PROPOSED G+4 STORIED BUILDING "MADHUBAN LAKE VIEW" AT NAITY ROAD, CHAKRABORTY NAGAR UNDER KANAIPUR GRAM PANCHAYAT, MOUZA- BARABAHERA, J.L.NO.-5, P.S.- UTTARPARA, DIST.-HOOGHLY, W.B. OF R. S. DAG NO.-1221(P), R. S. KHATIAN NO.-901(640), L. R. DAG NO.-1475, L. R. KHATIAN NO.- 7804.

TITLE:
G.A & R.C.C DETAIL OF STRUCTURE

DRAWN BY- S.B	DATE - 23.05.2024	SHEET NO. - 02/03
CHECKED BY - TANMOY DAS	SCALE -1:100, 20, 25	REVISION - 00
JOB NO. -		
DRG. NO. - ARCHSTRUCT/STRC/VET/04/05-2024		
STATUS ☐ INFORMATION ☐ APPROVAL ■ SUBMISSION		

A1.dwg