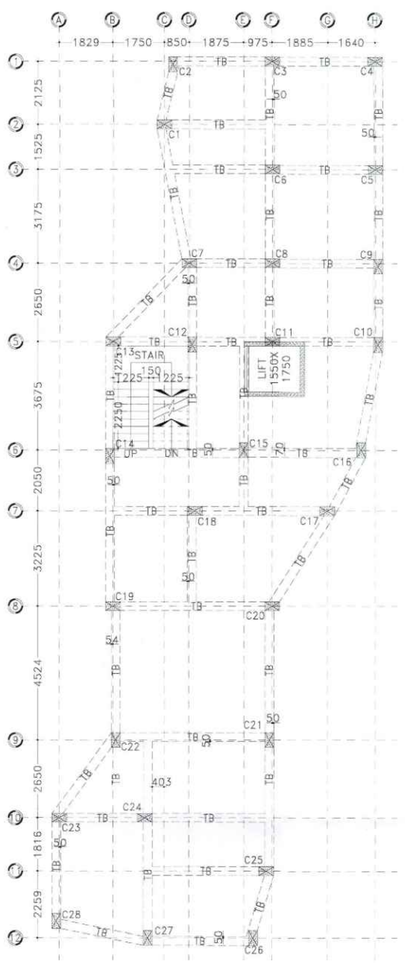
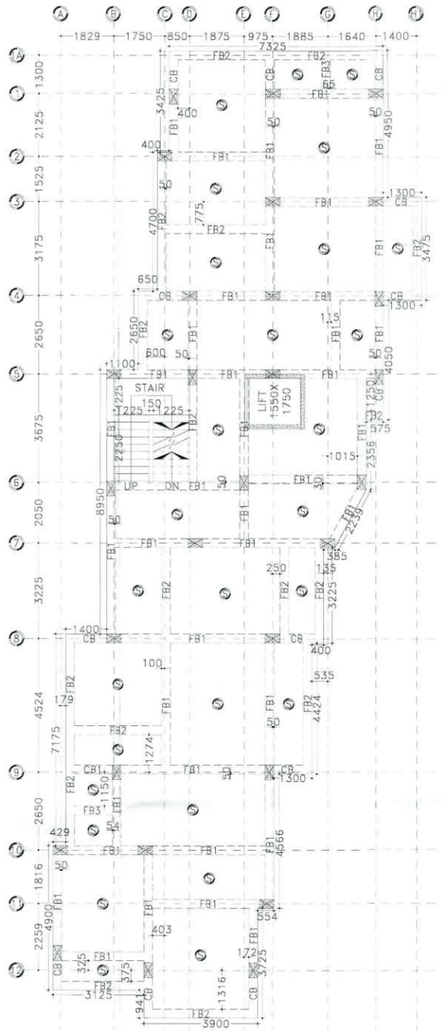
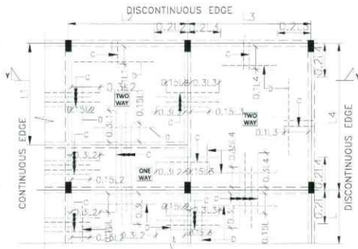


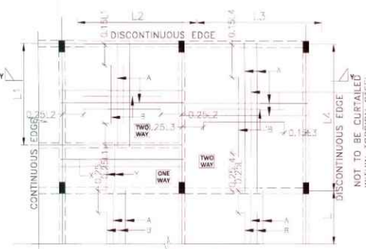
3 TIE BEAM LAYOUT PLAN
SCALE: 1:100



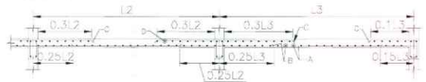
4 GROUND & TYPICAL FLOOR BEAM LAYOUT PLAN
SCALE: 1:100



TYPICAL DETAILS OF SLAB REINFORCEMENT
SCALE - N.T.S.



TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)
SCALE - N.T.S.



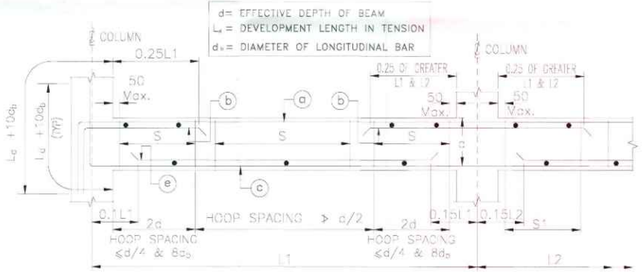
SECTION – Y–Y
SCALE – N.T.S.

TABLE NO:–2 (SCHEDULE OF FLOOR BEAM)

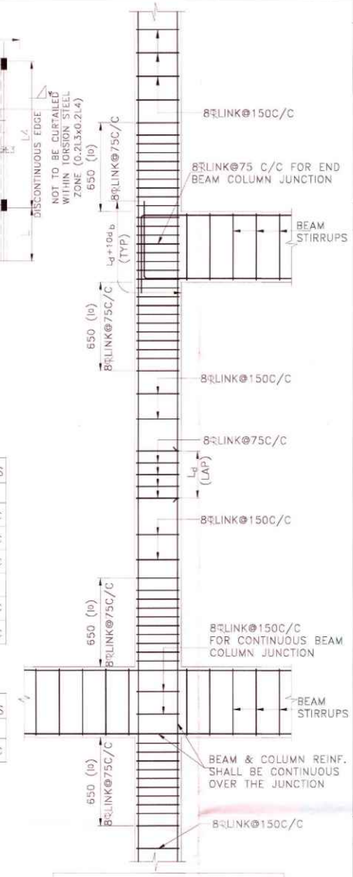
Beam Mkd	Size B	Size D	All Through Top(a)	All Through Bott.(c)	Ext. at End Supp. Top (b)	Ext. at Span. Bott (e)	Ext. at Cont. Supp. Top (b)	STIRRUPS Support	STIRRUPS Span
FB1	300	450	2–20ϕ	2–20ϕ	2–16ϕ	2–16ϕ	2–16ϕ	2L–8ϕ@125C/C	2L–8ϕ@125C/C
FB2	300	400	2–20ϕ	2–20ϕ	2–16ϕ	2–16ϕ	2–16ϕ	2L–8ϕ@125C/C	2L–8ϕ@125C/C
FB3	300	350	2–16ϕ	2–16ϕ	——	——	——	2L–8ϕ@125C/C	2L–8ϕ@125C/C
CB	300	450	3–16ϕ	3–16ϕ	——	——	——	2L–8ϕ@125C/C	2L–8ϕ@125/C
CB1	300	450	3–16ϕ	3–16ϕ	2–16ϕ	——	——	2L–8ϕ@125C/C	2L–8ϕ@125C/C
HLB	300	400	2–16ϕ	2–16ϕ	2–16ϕ	2–16ϕ	2–16ϕ	2L–8ϕ@125C/C	2L–8ϕ@125C/C

TABLE NO:–01 (SCHEDULE OF TIE BEAM)

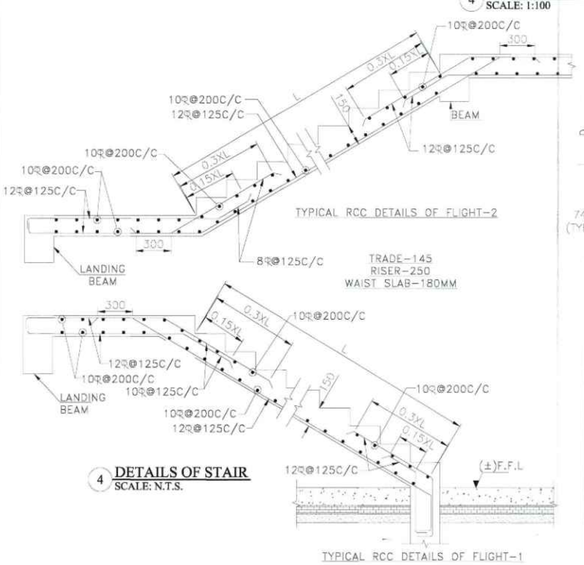
Beam Mkd	Size B	Size D	All Through Top(a)	All Through Bott.(c)	Ext. at End Supp. Top (b)	Ext. at Span. Bott (e)	Ext. at Cont. Supp. Top (b)	STIRRUPS Support	STIRRUPS Span
TB	300	450	2–20ϕ	2–20ϕ	2–16ϕ	2–16ϕ	2–16ϕ	2L–8ϕ@125C/C	2L–8ϕ@125C/C



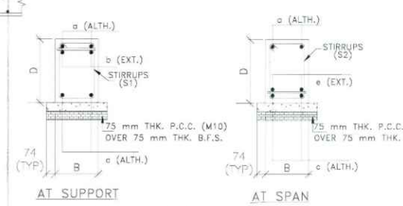
TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM



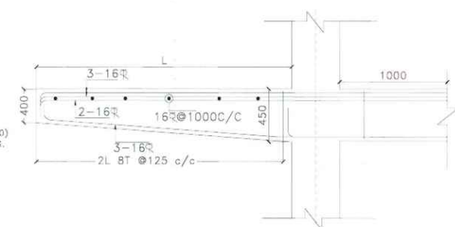
TYPICAL DETAIL OF BEAM COLUMN JUNCTION
SCALE 1:25



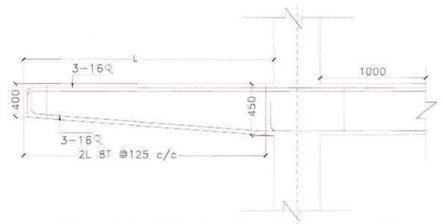
4 DETAILS OF STAIR
SCALE: N.T.S.



TYPICAL CROSS SECTION OF TIE BEAM



3A TYPICAL SECTION OF CANTILEVER BEAM(CB1)
SCALE: NTS



3 TYPICAL SECTION OF CANTILEVER BEAM(CB)
SCALE: NTS

TABLE NO:–01 (SCHEDULE OF FLOOR SLAB)

SLAB THICKNESS – 150 mm (S)

BAR MKD.	REINFORCEMENT	POSITION
A	10T @ 150 mm C/C (ALL THROUGH)	BOT.
B	10T @ 150 mm C/C (ALL THROUGH)	BOT.
C	10T @ 150 mm C/C (CURTAILMENT)	TOP
D	10T @ 150 mm C/C (CURTAILMENT)	TOP
X	10T @ 150 mm C/C (ALL THROUGH)	BOT.
Y	10T @ 150 mm C/C (ALL THROUGH)	BOT.

PROJECT NAME:–

STRUCTURAL DRAWING OF PROPOSED (G+6) SEVEN STORIED RESIDENTIAL BUILDING OF MR. PRADIP CHANDRA C/O LATE BHOLA NATH CHANDRA, MRS. BELA SEN C/O KAPILESHWAR SEN, MR. SUDIP CHANDRA, C/O LATE BHOLA NATH CHANDRA, MRS. REKHA DUTTA C/O ANIL DUTTA, MR. RAJIB CHANDRA C/O LATE BHOLA NATH CHANDRA, MRS. MAMONI GHOSH C/O TAPAN MONDAL R.S PLOT NO-$^{136}_{498}$,$^{136}_{497}$,L.R. PLOT NO-884,895, L.R. KHATIAN NO-3015,3016,3017,3018,3019.3024 J. L NO-109, MOUZA-SHANKARPUR, P. S- NEW TOWN SHIP, DIST-PASCHIM, BARDHAMAN. WEST BENGAL.

NOTES :–

1. (±) 0.00 M LEVEL REFERS TO E.G.L.
2. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
3. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER. 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). HOWEVER ARCHITECTURAL DRAWING TO BE COORDINATED FOR ALL LEVELS.
4. ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
5. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
6. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT. BARS OF GRADE FE–500/500 D CONFORMING TO IS–1786–2008.
7. ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
8. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE DEVELOPMENT LENGTH=50XBAR DIA.
9. UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8T @ 250 C/C
10. CONCRETE COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:– A)BEAM:–25MM. B)COLUMN:–40MM. C)SLAB:–15MM. D)FOOTIING:–50MM.E)R.C.C WALL:–20MM. F) STAIR:– 20MM.
9. GRADE OF CONCRETE WILL BE M30 FOR COLUMN AND M25 FOR BEAM AND SUB STRUCTURE AS PER IS: 456:2000.
11. DEVELOPMENT LENGTH 50XD FOR LAP & SPICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987

SIGNATURE OF DEVELOPER/OWNER:–

VETTED BY:–

DR. S. N. MUKHERJEE
Professor
CIVIL ENGINEERING DEPT.
JADAVPUR UNIVERSITY
KOLKATA-700032, (W.B)

Approved Plan No.....on Meeting No.....Date.....
Valid upto.....

Prodhan
Jemua Gram Panchayat

SIGNATURE OF ARCHITECT:–

MANJU MONOWARA KHATUN
ARCHITECT
CA/2022/146222
GIDS, Durgapur -16

SIGNATURE OF GEO–TECHNICAL ENGINEER:–

SWADESH KUMAR MONDAL
Geo-Technical Engineer
M.I.G.S. No-LM1242
LIC NO-DMC/BPD/GEO-I/34

SIGNATURE OF STRUCTURAL ENGINEER:–

HIROK GHOSH
Structural Engineer
Lic No: L-S-P-M/493/AMC-DMC/BPD/ES
DCE, B-TECH, G.I.D.S. Durgapur-16
Contact No: 7602134171

TITLE:–

TIE BEAM LAYOUT PLAN WITH SECTIONAL WITH SCHEDULE DETAILS, GROUND AND TYPOCAL FLOOR ROOF BEAM LAYOUT PLAN WITH SCHEDULE AND SECTIONAL DETAILS, SECTIONAL DETAILS OF SLAB AND STAIR.

DRAWN BY:– S. MIDDYA

CHECKED BY:– S AKHTAR

SCALE:– 1:100, 1:50, 1:25, N.T.S

REV–00

DATE:– 18.05.2024

SHEET NO:– STRUCTURE– 02/02

N W E S