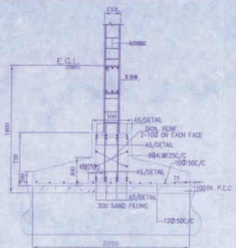
SCHEDULE OF COLUMN:- BLOCK-1D				(M20 AND FE 500)
COLUMN NOS.	SIZE (MMxMM)	FOUNDATION. TO 2ND. FL.	2ND.FL. TO 4TH. FL.	4TH. FL. TO ROOF&ABOVE
DC1	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	8-12Φ
DC2	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	8-12Φ
DC3	250X450	8-16Φ	6-16Φ+2-12Φ	6-16Φ+2-12Φ
DC4	250X450	8-16Φ	6-16Φ+2-12Φ	6-16Φ+2-12Φ
DC5	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	8-12Φ
DC6	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	8-12Φ
DC7	250X500	4-20Φ+6-16Φ	10-16Φ	10-16Φ
DC8	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC9	250X1125	12-16Φ+6-12Φ	12-16Φ+6-12Φ	12-16Φ+6-12Φ
DC10	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC11	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC12	250X500	4-20Φ+6-16Φ	10-16Φ	4-16Φ+6-12Φ
DC13	250X500	8-20Φ+2-16Φ	4-20Φ+6-16Φ	10-16Φ
DC14	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
DC15	250X450	8-20Φ	4-20Φ+4-16Φ	8-16Φ
DC16	250X450	8-16Φ	6-16Φ+2-12Φ	6-16Φ+2-12Φ
DC17	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC18	250X500	8-20Φ+2-16Φ	4-20Φ+6-16Φ	10-16Φ
DC19	250X500	8-20Φ+2-16Φ	4-20Φ+6-16Φ	10-16Φ
DC20	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC21	250X450	8-16Φ	6-16Φ+2-12Φ	6-16Φ+2-12Φ
DC22	250X450	8-20Φ	4-20Φ+4-16Φ	8-16Φ
DC23	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
DC24	250X500	10-16Φ	10-16Φ	10-16Φ
DC25	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
DC26	250X450	8-16Φ	6-16Φ+2-12Φ	4-16Φ+4-12Φ
DC27	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC28	250X575	8-20Φ+6-16Φ	12-16Φ	12-16Φ
DC29	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC30	250X450	8-16Φ	6-16Φ+2-12Φ	6-16Φ+2-12Φ

SCHEDULE OF COLUMN:- BLOCK-1D				(M20 AND FE 500)
COLUMN NOS.	SIZE (MMxMM)	FOUNDATION. TO 2ND. FL.	2ND.FL. TO 4TH. FL.	4TH. FL. TO ROOF&ABOVE
DC31	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC32	250X450	8-20Φ	4-20Φ+4-16Φ	4-20Φ+4-16Φ
DC33	250X500	4-20Φ+6-16Φ	10-16Φ	10-16Φ
DC34	250X450	4-20Φ+4-16Φ	4-20Φ+4-16Φ	8-16Φ
DC35	250X500	4-20Φ+6-16Φ	10-16Φ	10-16Φ
DC36	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC37	250X450	4-20Φ+4-16Φ	8-16Φ	8-16Φ
DC38	250X500	4-20Φ+6-16Φ	10-16Φ	10-16Φ
DC39	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	8-12Φ
DC40	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	8-12Φ
DC41	250X450	8-16Φ	8-16Φ	6-16Φ+2-12Φ
DC42	250X450	8-16Φ	8-16Φ	6-16Φ+2-12Φ
DC43	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	8-12Φ
DC44	250X450	4-16Φ+4-12Φ	4-16Φ+4-12Φ	8-12Φ



TYP. DETAIL OF FOUNDATION
SCALE 1:25

SCHEDULE OF FLOOR BEAM (M20 AND FE 500) BLOCK-1							
BEAM MKD.	SIZE (MMxMM)	TOP		BOTT.		STIRRUPS (2 LEGGED)	
		ALTH	EXT(AT SUPT.)	ALTH	EXT(MID SPAN)	AT SUPPORT	AT SPAN.
B1	250x450	2-16Φ	2-12Φ 2-20+1-16Φ(Cantl End)	2-16Φ	2-12Φ	8Φ2L@150C/C	8Φ2L@175C/C
B1A	250x450	3-16Φ+2-20Φ	-	3-16Φ+2-12Φ	-	8Φ2L@150C/C	8Φ2L@175C/C
B2	250x450	2-16Φ	2-16Φ 2-20+1-16Φ(Cantl End)	2-16Φ	2-16Φ	8Φ2L@150C/C	8Φ2L@175C/C
B2A	250x450	3-16Φ+2-20Φ	-	4-16Φ	-	8Φ2L@150C/C	8Φ2L@175C/C
B3	200x450	3-16Φ	2-16Φ	3-16Φ	2-16Φ	8Φ2L@150C/C	8Φ2L@175C/C
B3A	250x450	5-16Φ	-	3-16Φ	-	8Φ2L@150C/C	8Φ2L@175C/C
B4	250x450	2-16Φ	2-12Φ	3-16Φ	-	8Φ2L@150C/C	8Φ2L@175C/C
B5	250x450	2-16Φ	2-16Φ	4-16Φ	-	8Φ2L@150C/C	8Φ2L@175C/C
B6	250x450	2-16Φ	1-16Φ	4-16Φ	-	8Φ2L@150C/C	8Φ2L@175C/C
B7	250x450	2-16Φ	2-16Φ	3-20Φ	2-16Φ	8Φ2L@150C/C	8Φ2L@175C/C
B8	250x450	3-16Φ	-	3-16Φ	-	8Φ2L@150C/C	8Φ2L@175C/C
B9	250x450	2-16Φ+1-12Φ	2-16Φ	3-16Φ	2-20Φ	8Φ2L@150C/C	8Φ2L@175C/C
B10	250x450	2-16Φ	2-20Φ	2-16Φ	2-20Φ	8Φ2L@150C/C	8Φ2L@175C/C
B11	250x450	2-16Φ	2-20Φ	2-20Φ	2-16Φ	8Φ2L@150C/C	8Φ2L@175C/C

SCHEDULE OF SLAB (S1)	
SLAB THICKNESS AS MENTIONED :- 115 MM (ALONG SHORTER DIRECTION) (M20 AND FE 500)	
SUPPORT	8mmΦ@ 150mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 165mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :-115 MM (ALONG LONGER DIRECTION) (M20 AND FE 500)	
SUPPORT	8mmΦ@ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 175mm c/c at span & alternately curtained at L/4 from beam

SCHEDULE OF SLAB (S2)	
SLAB THICKNESS AS MENTIONED :- 125 MM (ALONG SHORTER DIRECTION) (M20 AND FE 500)	
SUPPORT	8mmΦ@ 130mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 150mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :-125 MM (ALONG LONGER DIRECTION) (M20 AND FE 500)	
SUPPORT	8mmΦ@ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 175mm c/c at span & alternately curtained at L/4 from beam

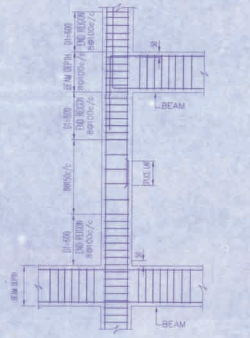
SCHEDULE OF SLAB (S2)	
SLAB THICKNESS AS MENTIONED :- 135 MM (ALONG SHORTER DIRECTION) (M20 AND FE 500)	
SUPPORT	8mmΦ@ 125mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 150mm c/c at span & alternately curtained at L/4 from beam

SLAB THICKNESS AS MENTIONED :-135 MM (ALONG LONGER DIRECTION) (M20 AND FE 500)	
SUPPORT	8mmΦ@ 165mm c/c at top of support & extended upto L/3 from beam.
SPAN	8mmΦ@ 175mm c/c at span & alternately curtained at L/4 from beam

SCHEDULE OF TIE BEAM (M20 AND FE 500)							
MKD.	SIZE (MMxMM)	TOP		BOTT.		STIRRUPS (2 LEGGED)	
		ALTH	EXT(AT SUPT.)	ALTH	EXT(MID SPAN)	AT SUPPORT	AT SPAN.
TB1	250x450	2-12#T	2-16#T	2-16#T	2-12#T	8#T@125mm C/C	8#T@150mm C/C
TB2	250x450	1-16#T+ 2-12#T	-	3-16T#	-	8#T@125mm C/C	8#T@150mm C/C
TB3	250x450	2-16#T	2-16#T	2-16#T	2-16#T	8#T@125mm C/C	8#T@150mm C/C
TB4	250x450	2-16#T	2-12#T	2-16#T	2-12#T	8#T@125mm C/C	8#T@150mm C/C
TB5	200x450	2-16#T	-	2-16#T	-	8#T@125mm C/C	8#T@150mm C/C

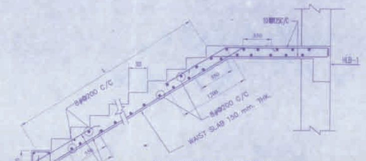
NOTES :-

1. ALL DIMENSIONS ARE IN MM
2. ALL CONCRETE SHOULD BE OF GRADE M20 UNLESS SPECIFIED
3. COVER TO REINFORCEMENT
   COLUMN = 40mm , BEAM = 30mm
   - SLAB = 15mm , FOUNDATION = 50mm
4. DEPTH OF EXCAVATION OF UNDER GROUND SUMP SHOULD BE ABOVE THAT OF FOUNDATION.
5. DO NOT SCALE THE DRAWING . FOLLOW WITH DIMENSION.
6. ALL WALLS ARE AS PER ARCHITECTURAL DRAWINGS
7. LEAN CONCRETE (1:3:6) NOMINAL MIX 75 THK. SHALL BE PROVIDED UNDER FOUNDATION.
8. THE DRAWINGS SHOULD BE STUDIED CAREFULLY AND ALL DIMENSIONS SHOWN HERE SHOULD BE CHECKED AT SITE. CLARIFICATION REGARDING DISCREPANCY IF ANY, SHOULD BE OBTAINED BEFORE COMMENCEMENT OF WORK.
9. SPACER BAR USED SHALL BE OF 20mm. OR DIAMETER OF THE BAR USED N THE JOB WHICH IS LARGER.
10. STEEL TO BE USE SHOULD BE OF Fe-500 GRADE. REINFORCEMENT SHOULD BE WITH COLD TWISTED DEFORMED BARS CONFIRMING TO IS : - 1786 AND HAVE BEEN SHOWN AS Φ.
11. DEPTH OF EXCAVATION OF UNDER GROUND SUMP/RESERVOIR SHOULD BE ABOVE THE DEPTH OF FOUNDATION OF THE ADJACENT BUILDING / STRUCTURE
12. LAP LENGTH OF STEEL BAR SHALL BE 50xDIA OF BAR

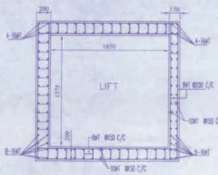


LONG SECTION OF COL. SHOWING LINK DETAILS

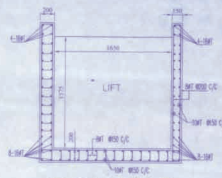
TYP.DET.OF SECOND FLIGHT SECTION



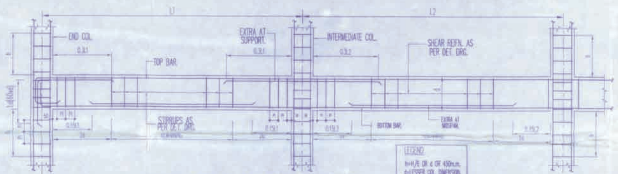
TYP.DET.OF FIRST FLIGHT SECTION



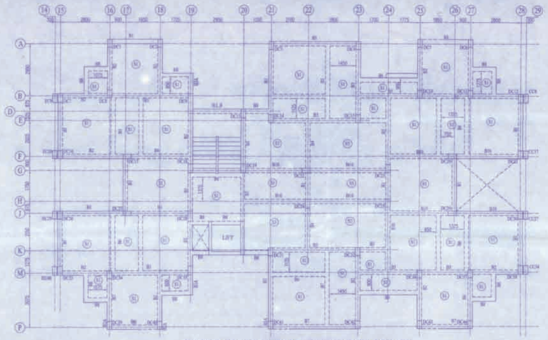
R.C. DETAILS OF LIFT WALL BELOW PINTH LEV.



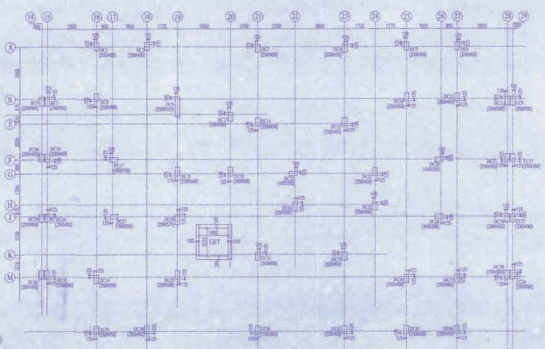
R.C. DETAILS OF LIFT WALL TYPICAL FLOOR PINTH LEV.



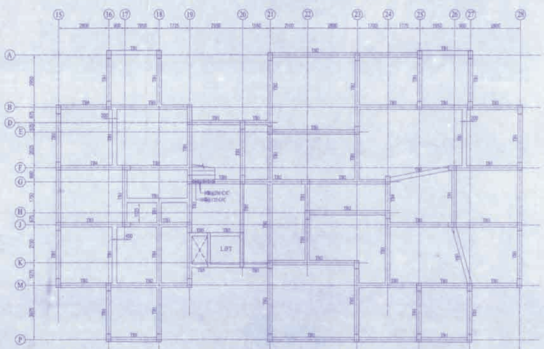
TYPICAL DETAIL OF BEAM COLUMN JUNCTION



TYPICAL FLOOR BEAM LAYOUT PLAN (BLOCK-1D)
SCALE -1:100



COLUMN LAYOUT PLAN (BLOCK-1D)
SCALE -1:100



TIE BEAM LAYOUT PLAN (BLOCK-1D)
SCALE -1:100

Constitute Attorney
REALMARK REALTY PVT. LTD.
Authorised Signatory/Director

SIGNATURE OF OWNER

CERTIFICATE OF STRUCTURAL ENGINEER

CERTIFIED THAT, "THE STRUCTURAL DESIGN & DRAWINGS OF BOTH FOUNDATION & SUPER STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA & CERTIFIED THAT IT IS SAFE & STABLE IN ALL RESPECTS".

SUBIR CHANDRA SANYAL
B.C.E., A.M.I., STRUCT. E. (I)
E.B.S. NO. 840, CLASS-I
E.S.E. NO. 007, CLASS-I
RAJPUR-SONARPUR MUNICIPALITY

SIGNATURE OF STRUCTURAL ENGINEER.

CERTIFICATE OF ARCHITECT

THE E.B.S. HAS CERTIFIED ON THE PLAN ITSELF WITH FULL RESPONSIBILITY THAT THE BUILDING PLAN HAS BEEN DRAWN UP AS PER PROVISION OF WEST BENGAL MUNICIPAL BUILDING RULES 2007, AS AMENDED FROM TIME TO TIME AND THAT THE SITE CONDITION INCLUDING THE WIDTH OF THE ABUTTING ROAD CONFIRM WITH THE PLAN AND IT IS A BUILD ABLE SITE AND NOT A TANK OR A FILLED UP TANK.

RAJKUMAR AGARWAL (E.B.A.)
RAJPUR SONARPUR MUNICIPALITY
NO. 4511/RJPSON/EBA

SIGNATURE OF ARCHITECT

Rupak Kumar Banerjee

RUPAK KUMAR BANERJEE
B.C.E., M.E., MIGS
M.I.E., CHARTERED ENGINEER
ENLISTED GEO TECHNICAL ENGINEER (K.M.C.)
G.T./I/3(K.M.C.), LM-4279
M-153876-5
GTER-HIDCO/09/00014
01GT/LIP RSON/LT/2014-15

SIGNATURE OF GEO-TECHNICAL ENGINEER

TITLE

COLUMN & TIE-BEAM LAYOUT PLAN WITH DETAILS. (BLOCK-1D)

PROJECT

STRUCTURAL DRAWING FOR A PROPOSED G+IV (15.45 MT. HT.) STOREDRESIDENTIAL BUILDING AT HOLDING NO.-484, GHOSHAL PARA, WARD NO-23, R.S & L.R DAG NO -213, 353, 354 & 355, R.S KHATIAN NO. - 82 & 387, LR KHATIAN NO. 1619 , 1620 , 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, JL NO. 77, MOUZA - MANIKPORE, P.S- SONARPUR, SOUTH 24 PARAGNAS UNDER RAJPUR - SONARPUR MUNICIPALITY.

DATE	JOB. NO.	DEALT	CHECKED	SHEET NO.
30.09.19	STRUC./-484	SOMNATH	DIPANKAR	3 OF 7

SCALE
1:150, 100, 50, 600, 4000

ARCHITECT

RAJ AGRAWAL & ASSOCIATES
8B, ROYD STREET, KOLKATA - 16

Sanyalson Associates
Consultant Pvt. Ltd.
CONSULTANT PLANNER & STRUCTURAL ENGINEERS.
P-157 KANUNGO PARK KOLKATA-84

FOR OFFICE USE ONLY

Structure plan as submitted by the structural Engineer have been kept with Building Plan No. 316/03/23/45 Dated On...
for record of the Rajpur-Sonarpur Municipality without Verification and deviation from the submitting structure plan would be made at the time of erection without submitting fresh structural plan along with design calculations and stability certificate in the prescribed form necessary steps should be taken for the safety of the adjoining premises public private properties and safety of human life during Construction

17/03/2020

Sig. of Assistant Engineer.
Incharge P.W.D
RAJPUR-SONARPUR MUNICIPALITY