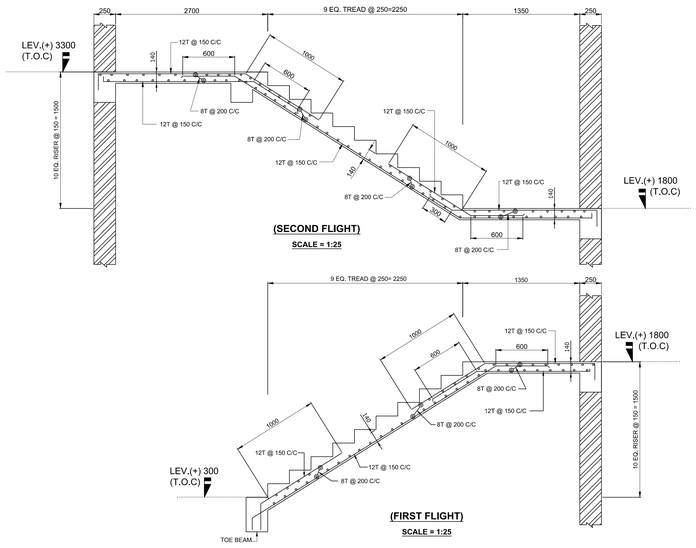
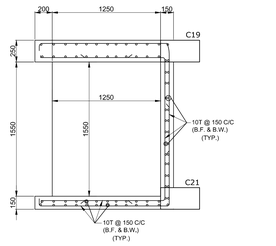


(SECOND FLIGHT)

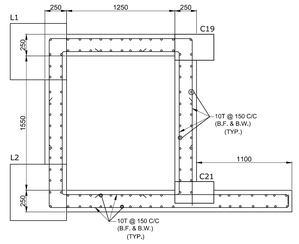
SCALE = 1:25

(FIRST FLIGHT)

SCALE = 1:25



REINF. DETAIL OF LIFT WALL ABOVE GROUND LEVEL



REINF. DETAIL OF LIFT WALL UPTO GROUND LEVEL

TIE BEAM SCHEDULE:-

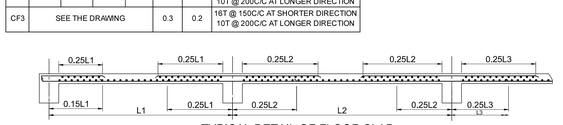
BEAM NUMBERS	SIZE		BOTTOM REINFORCEMENT			TOP REINFORCEMENT			SHEAR STIRRUPS		
	B	D	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT	LEFT	MID SPAN	RIGHT
TB1,TB7,TB21,TB25 ,TB27,TB54	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	9-2L-8T@150 C/C	7-2L-8T@150 C/C	9-2L-8T@150 C/C
TB2,TB8,TB34	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	11-2L-8T@150 C/C	9-2L-8T@150 C/C	11-2L-8T@150 C/C
TB3,TB14,TB26 ,TB31,TB37	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	8-2L-8T@150 C/C	6-2L-8T@150 C/C	8-2L-8T@150 C/C
TB4	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	12-2L-8T@140 C/C	9-2L-8T@150 C/C	12-2L-8T@140 C/C
TB5,TB52	250	400	3-12T	3-12T	3-12T	3-16T	3-16T	3-16T	8-2L-8T@150 C/C	6-2L-8T@150 C/C	8-2L-8T@150 C/C
TB6	250	400	3-12T	3-12T	3-12T	3-16T	3-16T	3-16T	11-2L-8T@150 C/C	9-2L-8T@150 C/C	11-2L-8T@140 C/C
TB9	250	400	3-12T	3-12T	3-12T	3-16T	3-16T	3-16T	12-2L-8T@150 C/C	10-2L-8T@150 C/C	12-2L-8T@150 C/C
TB10	250	400	3-12T	3-12T	3-12T	3-16T	3-16T	3-16T	9-2L-8T@140 C/C	7-2L-8T@140 C/C	9-2L-8T@140 C/C
TB11	250	400	4-16T	4-16T	4-16T	5-16T	3-16T	5-16T	13-2L-8T@150 C/C	11-2L-8T@150 C/C	13-2L-8T@150 C/C
TB12	250	400	4-16T	4-16T	4-16T	5-16T	3-16T	5-16T	5-2L-8T@150 C/C	3-2L-8T@150 C/C	5-2L-8T@150 C/C
TB13	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	5-2L-8T@150 C/C	3-2L-8T@150 C/C	5-2L-8T@150 C/C
TB15	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	10-2L-8T@140 C/C	8-2L-8T@150 C/C	10-2L-8T@140 C/C
TB18	250	400	3-16T	3-16T	3-16T	3-16T + 2-12T	3-16T + 2-12T	3-16T + 2-12T	5-2L-8T@150 C/C	3-2L-8T@150 C/C	5-2L-8T@150 C/C
TB19	250	400	3-12T	3-12T	3-12T	3-16T	3-16T	3-16T	7-2L-8T@150 C/C	6-2L-8T@140 C/C	8-2L-8T@140 C/C
TB20	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	8-2L-8T@150 C/C	6-2L-8T@150 C/C	8-2L-8T@140 C/C
TB45	250	400	3-12T	3-12T	3-12T	3-16T	3-16T	3-16T	9-2L-8T@150 C/C	7-2L-8T@150 C/C	9-2L-8T@150 C/C
TB24,TB29	250	400	3-12T	3-12T	3-12T	3-12T	3-12T	3-12T	8-2L-8T@150 C/C	6-2L-8T@150 C/C	8-2L-8T@150 C/C
TB28,TB38,TB43	250	400	3-12T	3-12T	3-12T	3-12T	3-12T	3-12T	7-2L-8T@150 C/C	5-2L-8T@150 C/C	7-2L-8T@150 C/C
TB30	250	400	3-12T	3-12T	3-12T	3-12T	3-12T	3-12T	10-2L-8T@150 C/C	8-2L-8T@150 C/C	10-2L-8T@150 C/C
TB32,TB35,TB41 ,TB47	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	7-2L-8T@150 C/C	5-2L-8T@150 C/C	7-2L-8T@150 C/C
TB33,TB40	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	10-2L-8T@150 C/C	8-2L-8T@150 C/C	10-2L-8T@150 C/C
TB36	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	7-2L-8T@140 C/C	5-2L-8T@140 C/C	7-2L-8T@140 C/C
TB39,TB50	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	8-2L-8T@140 C/C	6-2L-8T@140 C/C	8-2L-8T@140 C/C
TB42	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	10-2L-8T@140 C/C	8-2L-8T@150 C/C	10-2L-8T@150 C/C
TB46	250	400	3-12T	3-12T	3-12T	3-16T	3-16T	3-16T	9-2L-8T@140 C/C	6-2L-8T@150 C/C	9-2L-8T@140 C/C
TB48	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	6-2L-8T@150 C/C	4-2L-8T@150 C/C	6-2L-8T@150 C/C
TB51	250	400	3-12T	3-12T	3-12T	3-16T	3-16T	3-16T	9-2L-8T@150 C/C	7-2L-8T@150 C/C	9-2L-8T@150 C/C
TB53	250	400	3-12T	3-12T	3-12T	3-16T	3-16T	3-16T	10-2L-8T@150 C/C	8-2L-8T@150 C/C	10-2L-8T@150 C/C
TB55	250	400	3-16T	3-16T	3-16T	3-16T	3-16T	3-16T	9-2L-8T@150 C/C	7-2L-8T@150 C/C	9-2L-8T@140 C/C

FOOTING SCHEDULE: -

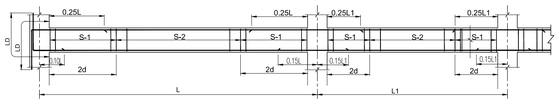
COL	PEDESTAL SIZE		FOUNDATION SIZE				REINFORCEMENT
			L	B	THK CETR	THK EDGE	
C1	0.350	0.650	2.4	2.4	0.4	0.2	12 T @ 150 MM C/C BOTH DIR
C2	0.350	0.550	2.5	2.5	0.4	0.2	12 T @ 150 MM C/C BOTH DIR
C3	0.350	0.550	2.4	2.4	0.4	0.2	12 T @ 150 MM C/C BOTH DIR
C4	0.350	0.600	2	2	0.35	0.2	12 T @ 150 MM C/C BOTH DIR
C5	0.350	0.700	2.5	2.5	0.45	0.2	12 T @ 150 MM C/C BOTH DIR
C6	0.400	0.600	3	2.7	0.5	0.2	12 T @ 150 MM C/C BOTH DIR
C7	0.350	0.550	3	2.6	0.45	0.2	16 T @ 150 MM C/C BOTH DIR
C8	0.350	0.650	3	3	0.5	0.2	12 T @ 150 MM C/C BOTH DIR
C9	0.350	0.600	2.4	2.4	0.4	0.2	12 T @ 150 MM C/C BOTH DIR
C10	0.350	0.650	3	3	0.5	0.2	12 T @ 150 MM C/C BOTH DIR
C11	0.350	0.650	2.7	2.7	0.45	0.2	12 T @ 150 MM C/C BOTH DIR
C16	0.350	0.550	2.7	2.7	0.45	0.2	12 T @ 150 MM C/C BOTH DIR
C22	0.350	0.550	2.4	2.4	0.4	0.2	12 T @ 150 MM C/C BOTH DIR
C27	0.350	0.550	2.4	2.4	0.4	0.2	12 T @ 150 MM C/C BOTH DIR
C28	0.350	0.700	2.7	2.7	0.45	0.2	12 T @ 150 MM C/C BOTH DIR
C29	0.350	0.550	2.4	2.4	0.4	0.2	12 T @ 150 MM C/C BOTH DIR
C30	0.350	0.550	2.4	2.4	0.4	0.2	12 T @ 150 MM C/C BOTH DIR
C31	0.350	0.550	2.4	2.4	0.4	0.2	12 T @ 150 MM C/C BOTH DIR
CF1			14	2.5	0.3	0.2	16T @ 150C/C AT SHORTER DIRECTION 10T @ 200C/C AT LONGER DIRECTION
CF2			5.5	3.1	0.3	0.2	16T @ 125C/C AT SHORTER DIRECTION 10T @ 200C/C AT LONGER DIRECTION
CF3	SEE THE DRAWING				0.3	0.2	16T @ 150C/C AT SHORTER DIRECTION 10T @ 200C/C AT LONGER DIRECTION

For SURAKSHA CONSTRUCTION

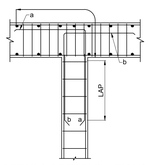
Partner Partner



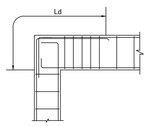
TYPICAL DETAIL OF FLOOR SLAB



TYPICAL DETAIL OF FLOOR BEAM



DETAILS OF TERMINATIONS OF COLUMN BARS INSIDE THE BEAM

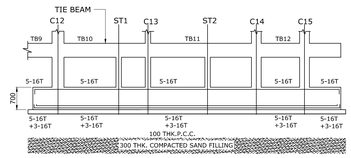


DETAILS OF TERMINATIONS OF CORNER COLUMN BARS

REINFORCEMENT DETAILS OF FOOTING BEAMS

STIRRUP= 4L 8T @ 150 C/C (AT SUPPORT) & 150 C/C (AT SPAN)

SCALE:- N.T.S.

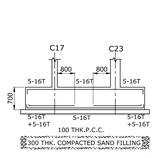


DETAIL OF FDN. BEAM GB1 (600 x 700)

REINFORCEMENT DETAILS OF FOOTING BEAMS

STIRRUP= 4L 8T @ 150 C/C (AT SUPPORT) & 150 C/C (AT SPAN)

SCALE:- N.T.S.

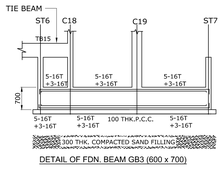


DETAIL OF FDN. BEAM GB2 (600 x 700)

REINFORCEMENT DETAILS OF FOOTING BEAMS

STIRRUP= 4L 8T @ 150 C/C (AT SUPPORT) & 150 C/C (AT SPAN)

SCALE:- N.T.S.

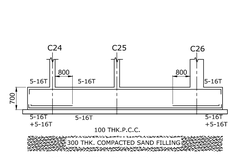


DETAIL OF FDN. BEAM GB3 (600 x 700)

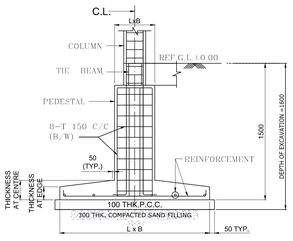
REINFORCEMENT DETAILS OF FOOTING BEAMS

STIRRUP= 4L 8T @ 150 C/C (AT SUPPORT) & 150 C/C (AT SPAN)

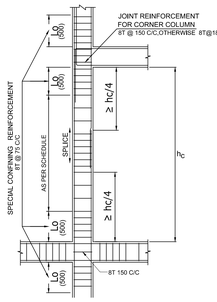
SCALE:- N.T.S.



DETAIL OF FDN. BEAM GB4 (600 x 700)

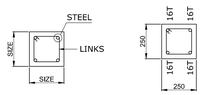


TYPICAL DETAILS OF ISOLATED FOOTING

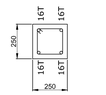


d= LARGEST LATERAL DIMENSIONS OF MEMBER.
b=LEAST LATERAL DIMENSION OF COLUMN.

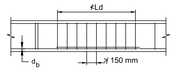
COLUMN AND JOINT DETAILING



TYP. DETAIL OF COLUMN

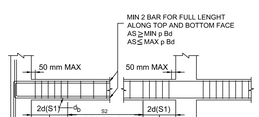


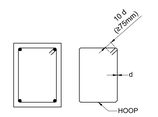
DETAIL OF STOOL COLUMN



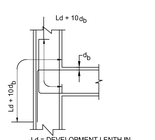
d_b= BAR DIAMETER

LAP, SPLICE IN BEAM

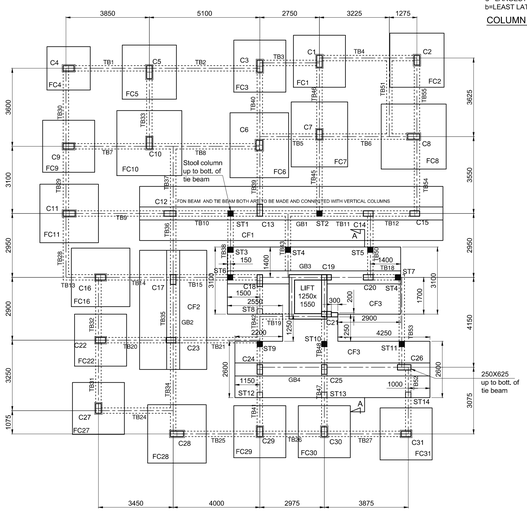




BEAM WEB REINFORCEMENT

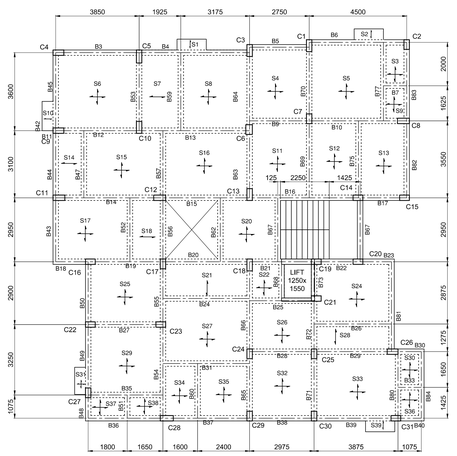


BEAM REINFORCEMENT



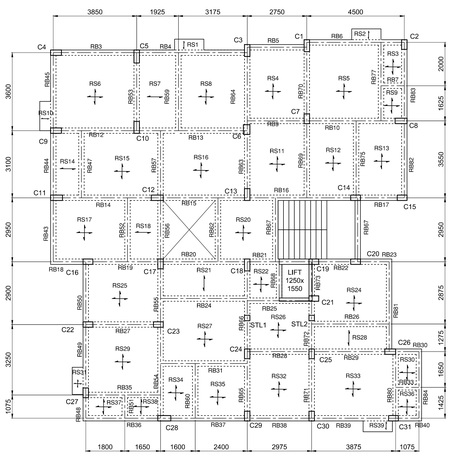
FOUNDATION & TIE BEAM LAYOUT

SCALE:- 1:100



TYPICAL FLOOR BEAM & SLAB LAY-OUT

SCALE:- 1:100



ROOF BEAM & SLAB LAY-OUT

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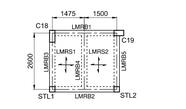
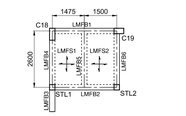


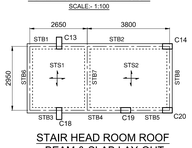
LIFT MECH. ROOM ROOF BEAM & SLAB LAY-OUT

SCALE:- 1:100



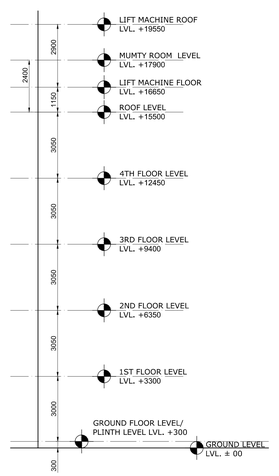
LIFT MECH. ROOM FLOOR BEAM & SLAB LAY-OUT

SCALE:- 1:100



STAIR HEAD ROOM ROOF BEAM & SLAB LAY-OUT

SCALE:- 1:100



SKIN SECTION OF BUILDING LEVELS

SCALE:- 1:100

NOTES & SPECIFICATIONS

1.ALL DIMENSIONS ARE IN M.M. UNLESS OTHERWISE MENTIONED.
2.WRITTEN DIMENSIONS TO BE FOLLOWED.
3.ALL P.C.C. WORK WILL BE IN (1:3:6)
4.ALL BUILDING MATERIALS TO BE USED AS PER N.B.C. OF INDIA.
5.MINIMUM COVER FOR R.C.C. STRUCTURES :
FOR SLAB- 20 M.M.
FOR BEAM-25 M.M.
FOR COLUMN-40 M.M.
6.GRADE OF CONCRETE: M 25
7.GRADE OF STEEL - Fe 500
8.FOUNDATION DESIGNED CONSIDERING SOIL BEARING CAPACITY TO BE 10 T/ SQM. AS PER SOIL REPORT.
FOUNDATION DEPTH= -1.5 M BELOW GROUND LEVEL.
9. CONSIDERING UNIT WEIGHT OF BRICK 20kn/Cum.
10. THE STRUCTURAL DESIGN IS MADE CONSIDERING THREE STORIED STRUCTURE .

STRUCTURAL CERTIFICATE

THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPER- STRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOADS AS PER N.B.C. OF INDIA AND CERTIFICATE THAT IT IS SAFE AND STABLE IN ALL RESPECT.

SIGNATURE OF E.S.E

SIGNATURE OF GEO-TECHNICAL ENGINEER

SIGNATURE OF OWNER

STRUCTURAL DRAWING OF **PROPOSED G+IV STORIED RESIDENTIAL BUILDING AT HOLDING NO. - 690 MOUZA-GARAGACHA, R.S. DAG NO-177/285 ,177 &178, L.R. DAG NO-189, 190,191, R.S.KHATIAN - 117 & 124 ,L.R. KHATIAN NO -582,583, 584,585,586,587, 615,617 & 618 ,J.L. NO-45, P.S.-NARENDRAPUR, DIST-24 PARAGANAS SOUTH,WARD NO-01,UNDER RAJPUR SONARPUR MUNICIPALITY.**

TITLE

G+IV STORIED RESIDENTIAL BUILDING
DETAILS OF:-
FOUNDATION,COLUMN,TIE-BEAM,BEAM & SLAB.

STRUCTURAL SHEET

SCALE - 1:100 & AS NOTED

STRUCTURAL CONSULTANT - DIGISTRUC