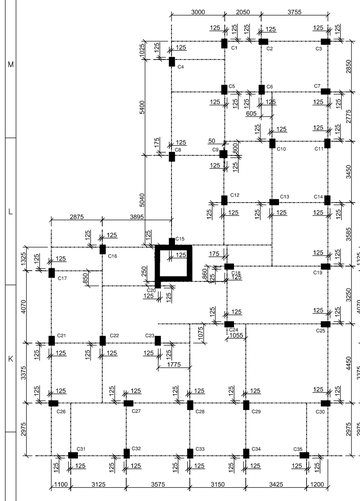
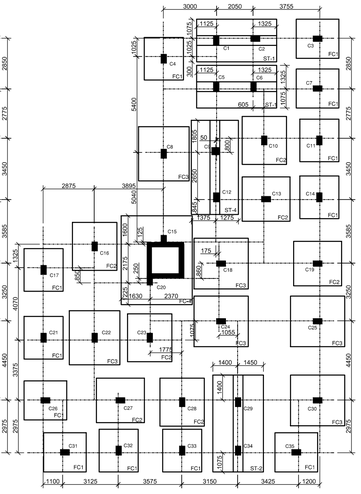
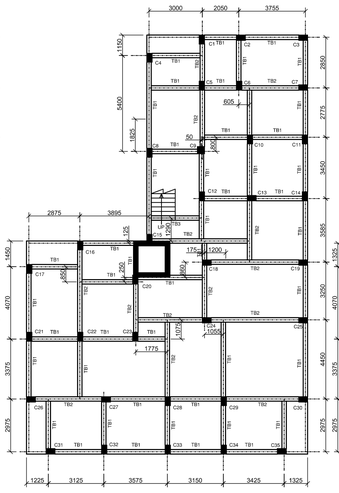


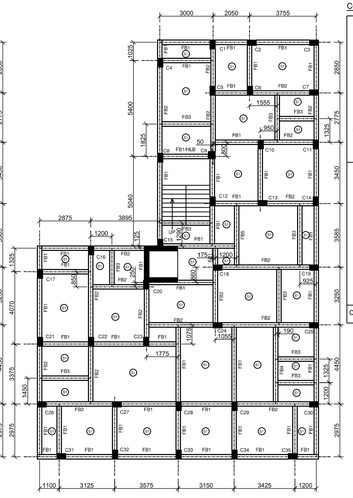
MARKING PLAN OF COLUMN
TOWER -1



MARKING PLAN OF FOOTING
TOWER -1



MARKING PLAN OF TIE BEAM
TOWER -1



MARKING PLAN OF TYP FLOOR BEAM & ROOF BEAM
TOWER -1

COLUMN SCHEDULE (M25:Fe500) TOWER -1

ROOF TO 3rd FLOOR LEVEL	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 300 × 500 · ●T16 · 12-T16	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 300 × 500 · ●T16 · 12-T16	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 450 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 400 × 500 · ●T16 · 12-T16
3rd FLOOR TO FOOTING	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 300 × 500 · ●T20 ●T16 · 4-T20 + 8-T16	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 300 × 500 · ●T16 · 12-T16	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 450 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 400 × 500 · ●T20 ●T16 · 4-T20 + 8-T16
COLUMN MARKED	C8,C12,C15,C16,C18,C20	OTHER	C9

TIE BEAM SCHEDULE (M25:Fe500) TOWER -1

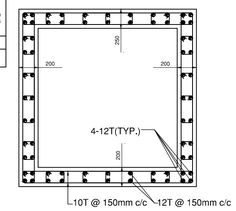
BEAM NUMBERS	SIZE B	SIZE D	BOTTOM REINFORCEMENT SUPPORT	BOTTOM REINFORCEMENT SPAN	TOP REINFORCEMENT SUPPORT	TOP REINFORCEMENT SPAN	SHEAR STIRRUPS SUPPORT(S1)	SHEAR STIRRUPS SPAN(S2)
TB1	250	450	3-T16	3-T16	3-T16 + 2-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
TB2	250	450	3-T16	3-T16 + 2-T12	3-T16 + 2-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
TB3	250	400	3-T16	3-T16	3-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C

FLOOR BEAM SCHEDULE (M25:Fe500) TOWER -1

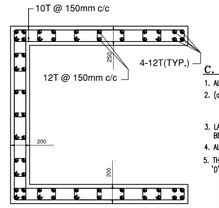
BEAM NUMBERS	SIZE B	SIZE D	BOTTOM REINFORCEMENT SUPPORT	BOTTOM REINFORCEMENT SPAN	TOP REINFORCEMENT SUPPORT	TOP REINFORCEMENT SPAN	SHEAR STIRRUPS SUPPORT(S1)	SHEAR STIRRUPS SPAN(S2)
FB1	250	450	3-T16	3-T16	3-T16 + 2-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB2	250	450	3-T16	3-T16 + 2-T16	3-T16 + 2-T20	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB3	250	400	3-T16	3-T16	3-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C
FB4	250	450	3-T16	3-T16 + 2-T16	3-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C

FLOOR SLAB SCHEDULE (M25 : FE500) TOWER-1

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT ALONG SHORT SPAN	BOTTOM REINFORCEMENT ALONG LONG SPAN	TOP REINFORCEMENT OVER LONG SUPPORT	TOP REINFORCEMENT OVER SHORT SUPPORT
S1	125	T10 @ 125 C/C	T10 @ 125 C/C	T10 @ 125 C/C	T10 @ 125 C/C



LIFT WALL SCHEDULE (M25:Fe500)
FOUNDATION TO PLINTH
TOWER -1



LIFT WALL SCHEDULE (M25:Fe500)
PLINTH TO ROOF
TOWER -1

N O T E S :–

A. GENERAL:

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS ARE IN METRE.
2. DRAWINGS SHALL NOT BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
3. ALL FOUNDATIONS SHALL BE REST ON VIRGIN SOIL OR ON THOROUGHLY COMPACTED SOIL AS PER SPECIFICATION. WHENEVER THE SOIL CONTAIN THE LOOSE SOIL POCKETS, THE SAME SHALL BE REMOVED AND REFILLED WITH THE P.C.C.

B. CONCRETE WORK:

1. ALL CONCRETE WORK SHALL BE AS PER IS:456 (LATEST REVISION)
2. ALL STRUCTURAL REINFORCED CONCRETE WORK SHALL BE WITH DESIGN MIX CONCRETE OF GRADE AS FOLLOWS UNLESS NOTED OTHERWISE.
   a). THE GRADE CONC. FOR SUB & SUPER STRUCTURES ARE M – 2 5
3. PLAIN CONCRETE WORK SHALL BE OF THE FOLLOWING GRADES OF NOMINAL MIX CONCRETE:
   a). 1:5:10 PLUM CONCRETE FOR FILLING CONCRETE UNDER FOUNDATION (WITH MAXIMUM AGGREGATE SIZE OF 40 MM.) AND AS , PIT, TRENCHES ETC.
   b). M–15 FOR LEAN CONCRETE BELOW FOUNDATIONS & PLINTH PROTECTION
4. THE MINIMUM CLEAR COVER FOR PROTECTION OF MAIN REINFORCEMENT SHALL BE AS FOLLOWS

STRUCTURAL ELEMENT	COVER TOP	COVER BOTTOM	COVER SIDES
a). PLINTH BEAM	25	40	40
b). COLUMNS	50	–	40
c). SLAB ON GRADE	20	25	25
d). FLOOR BEAM	25	25	25
e). SLAB	20	20	20
f). FOUNDATION	50	50	50

C. REINFORCEMENTS:

1. ALL REINFORING STEEL SHALL BE OF TESTED QUALITY.
2. (a). HIGH YIELD STRENGTH DEFORMED BAR REINFORCEMENT (YIELD STRESS Fe= 500 N/MM^2.) SHALL CONFORM TO IS:1786. (LATEST REVISION)
3. LAPS AND SPLICES OF REINFORCEMENT TO SUIT AVAILABLE LENGTH OF BARS SHALL BE MADE AS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER AT SITE.
4. ALL HOOKS. BENDS, LAPS AND SPLICES SHALL BE AS PER IS:2502.
5. THE LAP/ANCHORAGE LENGTH OF BARS OF DIAMETER "D" SHALL BE AS FOLLOWS:–

CONCRETE GRADE	DEFORMED BARS TENSION	DEFORMED BARS COMPRESSION
M–25	50XD	40XD

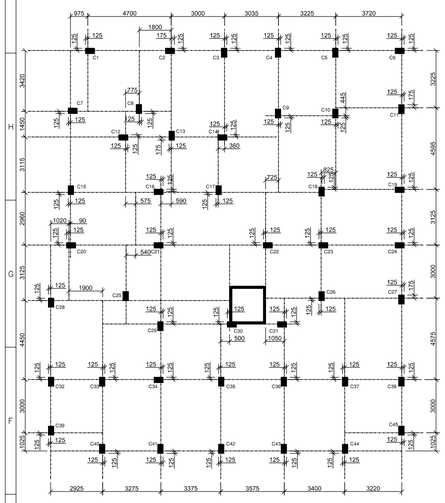
6. LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
7. LAPPING OF BARS FOR BEAM AND SLAB SHALL BE AVOIDED IN THE MAXIMUM TENSION ZONES.
8. DEVELOPMENT LENGTH (Ld) = 50xDIA OF THE BAR+10xDIA OF THE BAR.
9. ALL SPACER BARS ARE 250ø ø4ø50 C/C AND TO BE PROVIDED WHEREVER REQUIRED.
10. PILE CAPACITY OF SOIL FOR 450 DIA PILE AT 20M DEPTH COMP 48T, TENS 34T.
11. PILE DESIGN HAS BEEN RECOMMENDED BY CLIENT.

NOTE:

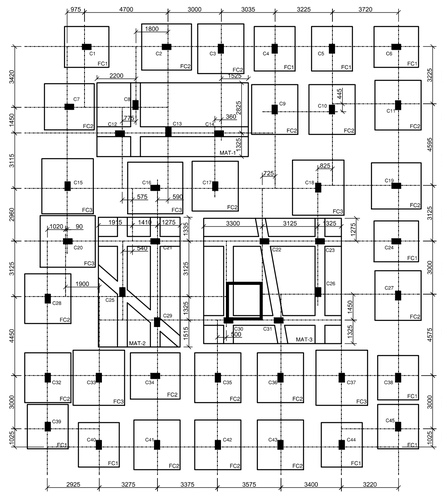
THIS BUILDING HAS BEEN DESIGNED FOR G+4.
ALL EXTERNAL BRICK WALLS ARE 250MM THICK USED DENSITY 20kN/m^3
ALL INTERNAL BRICK WALLS ARE 125MM THICK USED DENSITY 20kN/m^3

LOAD CONSIDERED NOTE:

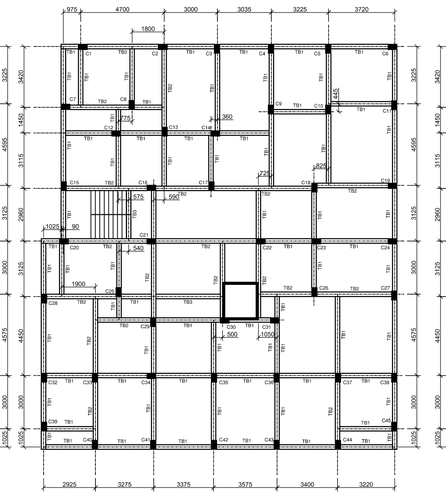
FLOOR LIVE LOAD =2.5 kN/m^2(RESIDENTIAL)
ACCESS ROOF LIVE LOAD =1.5kN/m^2
NON ACCESS ROOF LIVE LOAD =0.75kN/m^2
WATER TANK LOAD AT MUMTY =10kN/m^2



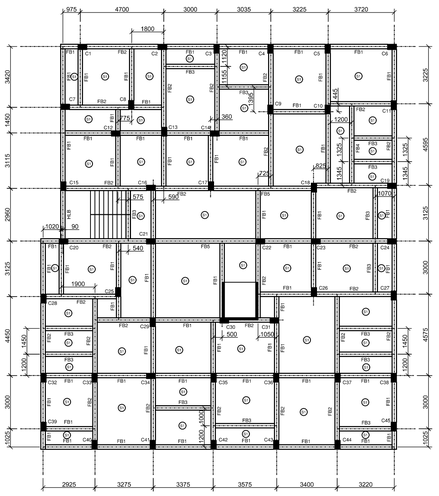
MARKING PLAN OF COLUMN
TOWER - 2



MARKING PLAN OF FOOTING
TOWER - 2



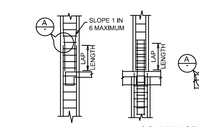
MARKING PLAN OF TIE BEAM
TOWER - 2



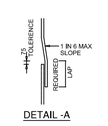
MARKING PLAN OF TYP FLOOR BEAM & ROOF BEAM
TOWER - 2

FOOTING SCHEDULE (M25:Fe500) TOWER -1

FOOTING NUMBERS	FOOTING TYPE	FOOTING DIMENSION L	FOOTING DIMENSION B	FOOTING DIMENSION D	FOOTING REINFORCEMENT BOTTOM ALONG B	FOOTING REINFORCEMENT BOTTOM ALONG L	FOOTING REINFORCEMENT TOP ALONG B	FOOTING REINFORCEMENT TOP ALONG L	BEAM DETAILS SIZE B1	SIZE D	BOTTOM REINFORCEMENT SUPPORT	BOTTOM REINFORCEMENT MID SPAN	TOP REINFORCEMENT SUPPORT	TOP REINFORCEMENT MID SPAN	SHEAR STIRRUPS
FC1	PAD	2400	2200	500	T12@125C/C	T12@125C/C	T8 @ 200C/C	T8 @ 200C/C							
FC2	PAD	2700	2500	525	T12@125C/C	T12@125C/C	T8 @ 200C/C	T8 @ 200C/C							
FC3	PAD	3050	2850	575	T12@125C/C	T12@125C/C	T8 @ 200C/C	T8 @ 200C/C							
FC4	PAD	5000	4000	600	T16@150C/C	T16@150C/C	T16@150C/C	T16@150C/C							
ST-1	STRIP	4500	2400	550	T16@150C/C	T16@150C/C	T16@150C/C	T16@150C/C	600	750	6-T20+2-T16	6-T20+2-T16	8-T16	8-T16	4L-T8@100/150 C/C
ST-2	STRIP	5450	2650	550	T16@150C/C	T16@150C/C	T16@150C/C	T16@150C/C	600	750	6-T20+2-T16	6-T20+2-T16	8-T16	8-T16	4L-T8@100/150 C/C
ST-3	STRIP	5300	2650	550	T16@150C/C	T16@150C/C	T16@150C/C	T16@150C/C	600	750	6-T20+2-T16	6-T20+4-T16	8-T16	8-T16	4L-T8@100/150 C/C



COLUMN SPLICES



DETAIL -A

COLUMN SCHEDULE (M25:Fe500) TOWER - 2

ROOF TO 3rd FLOOR LEVEL	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 300 × 500 · ●T16 · 12-T16	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 300 × 500 · ●T16 · 12-T16
3rd FLOOR TO FOOTING	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 300 × 500 · ●T20 ●T16 · 4-T20 + 8-T16	M25 : Fe500 , COVER = 40mm CONFINING ZONE = 500 MM Z1 MAIN LINK: T8 @ 75 · Z1 OTHERS: T8 @ 75 · Z2 LINKS: T8 @ 150 300 × 500 · ●T16 · 12-T16
COLUMN MARKED	C15,C16,C20,C21,C22,C17,C30	OTHER

FOOTING SCHEDULE (M25:Fe500) TOWER - 2

FOOTING NUMBERS	FOOTING TYPE	FOOTING DIMENSION L	FOOTING DIMENSION B	FOOTING DIMENSION D	FOOTING REINFORCEMENT BOTTOM ALONG B	FOOTING REINFORCEMENT BOTTOM ALONG L	FOOTING REINFORCEMENT TOP ALONG B	FOOTING REINFORCEMENT TOP ALONG L	BEAM DETAILS SIZE B1	SIZE D	BOTTOM REINFORCEMENT SUPPORT	BOTTOM REINFORCEMENT MID SPAN	TOP REINFORCEMENT SUPPORT	TOP REINFORCEMENT MID SPAN	SHEAR STIRRUPS
FC1	PAD	2500	2300	500	T12@125C/C	T12@125C/C	T8 @ 200C/C	T8 @ 200C/C							
FC2	PAD	2800	2600	525	T12@125C/C	T12@125C/C	T8 @ 200C/C	T8 @ 200C/C							
FC3	PAD	3100	2900	550	T12@125C/C	T12@125C/C	T8 @ 200C/C	T8 @ 200C/C							
MAT-1	RAFT	8525	4150	550	T16@150C/C	T16@150C/C	T16@150C/C	T16@150C/C	600	750	6-T20+2-T16	6-T20+2-T16	8-T16	8-T16	4L-T8@100/150 C/C
MAT-2	RAFT	7300	4600	550	T16@150C/C	T16@150C/C	T16@150C/C	T16@150C/C	600	750	6-T20+2-T16	6-T20+2-T16	8-T16	8-T16	4L-T8@100/150 C/C
MAT-3	RAFT	7750	7050	550	T16@150C/C	T16@150C/C	T16@150C/C	T16@150C/C	600	750	6-T20+2-T16	6-T20+4-T16	8-T16	8-T16	4L-T8@100/150 C/C

FLOOR BEAM SCHEDULE (M25:Fe500) TOWER - 2

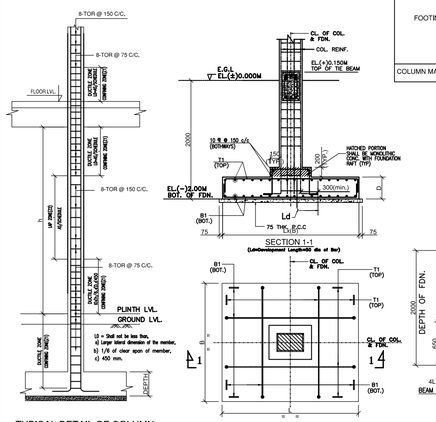
BEAM NUMBERS	SIZE B	SIZE D	BOTTOM REINFORCEMENT SUPPORT	BOTTOM REINFORCEMENT SPAN	TOP REINFORCEMENT SUPPORT	TOP REINFORCEMENT SPAN	SHEAR STIRRUPS SUPPORT(S1)	SHEAR STIRRUPS SPAN(S2)
FB1	250	450	3-T16	3-T16	3-T16 + 2-T20	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB2	250	450	3-T16	3-T16 + 2-T16	3-T16 + 2-T20	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
FB3	250	400	3-T16	3-T16	3-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C
FB4	250	450	3-T16	3-T16 + 2-T12	3-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C
FB5	250	500	3-T16	3-T16 + 2-T16	3-T16 + 2-T20	3-T16	2L-T8@100 C/C	2L-T8@150 C/C

TIE BEAM SCHEDULE (M25:Fe500) TOWER - 2

BEAM NUMBERS	SIZE B	SIZE D	BOTTOM REINFORCEMENT SUPPORT	BOTTOM REINFORCEMENT SPAN	TOP REINFORCEMENT SUPPORT	TOP REINFORCEMENT SPAN	SHEAR STIRRUPS SUPPORT(S1)	SHEAR STIRRUPS SPAN(S2)
TB1	250	450	3-T16	3-T16	3-T16 + 2-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
TB2	250	450	3-T16	3-T16 + 2-T12	3-T16 + 2-T16	3-T16	2L-T8@100 C/C	2L-T8@150 C/C
TB3	250	400	3-T16	3-T16	3-T16	3-T16	2L-T8@150 C/C	2L-T8@150 C/C

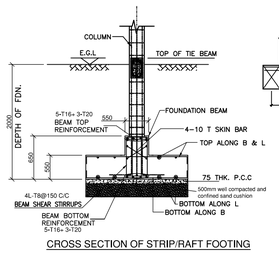
FLOOR SLAB SCHEDULE (M25 : FE500) TOWER-2

SLAB MARKED	SLAB THICKNESS	BOTTOM REINFORCEMENT ALONG SHORT SPAN	BOTTOM REINFORCEMENT ALONG LONG SPAN	TOP REINFORCEMENT OVER LONG SUPPORT	TOP REINFORCEMENT OVER SHORT SUPPORT
S1	125	T10 @ 125 C/C	T10 @ 125 C/C	T10 @ 125 C/C	T10 @ 125 C/C



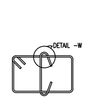
TYPICAL DETAIL OF COLUMN REINFORCEMENT

TYPICAL ISOLATE FOOTING PLAN

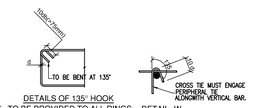


CROSS SECTION OF STRIP/RAFT FOOTING

TYP. SEC. OF SLAB ALONG SHORTER DIRECTION

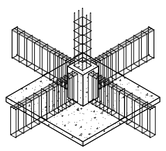


TYPICAL DETAIL OF LINK

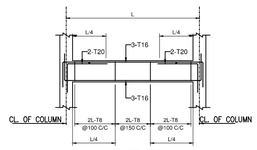


DETAILS OF 135° HOOK TO BE PROVIDED TO ALL RINGS

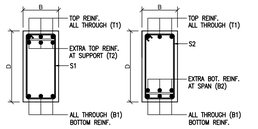
DETAIL -W



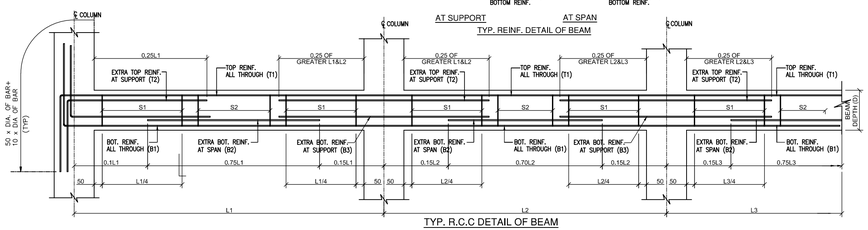
BEAM COLUMN JUNCTION
ISOMETRIC VIEW



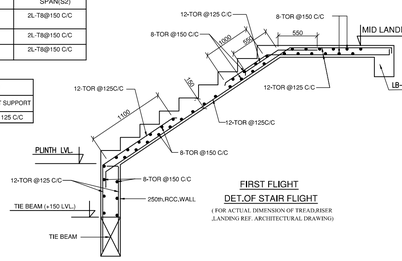
HLB:250x450
BLOCK - A



AT SUPPORT AT SPAN
TYP. REINF. DETAIL OF BEAM



TYP. R.C.C DETAIL OF BEAM



FIRST FLIGHT
DET.OF STAIR FLIGHT
(FOR ACTUAL DIMENSION OF TREAD,RISER ,LANDING REF. ARCHITECTURAL DRAWING)

TITLE -

PROPOSED G+4 BUILDING RESIDENCIAL/OTHER USE BUILDING OF ANJAN MUKHERJEE, SUDIP MUKHERJEE, DEVASISH MUKHOPADHYAY S/O Lt. JNAN RANJAN MUKHERJEE AND DEBNARAYAN DAS KARMAKAR OF FORTUNE PLAZA AT TUNT BARI MANASA MANDIR, DAG NO – R.S & L.R – 253/557, KH. NO – 3530, 3531, 3529 & 4018, MOUZA – JAMUNABANDH, J.L. NO – 97, UNDER BISHNUPUR MUNICIPALITY, WARD NO – 16, DIST – BANKURA, WEST BENGAL.

SIGNATURE OF THE OWNER

DECLARATION OF THE ARCHITECT / L.B.S

SIGNATURE OF ARCHITECH / ENGINEER

DECLARATION OF ENGINEER

DRAWING -
1. FOUNDATION LAYOUT PLAN.
2. COLUMN LAYOUT PLAN.
3. TIE BEAM LAYOUT PLAN.
4. FLOOR BEAM & SLAB LAYOUT.

DESIGN BY - VIVEK PATRA
CHECKED BY - SUJAY KR.
DRAWN BY - VIVEK PATRA
APPROVED BY - SUJAY KR. SANTRA

KMC -E.S.E -II/633
E.S.E -I (Bishnupur Municipality)