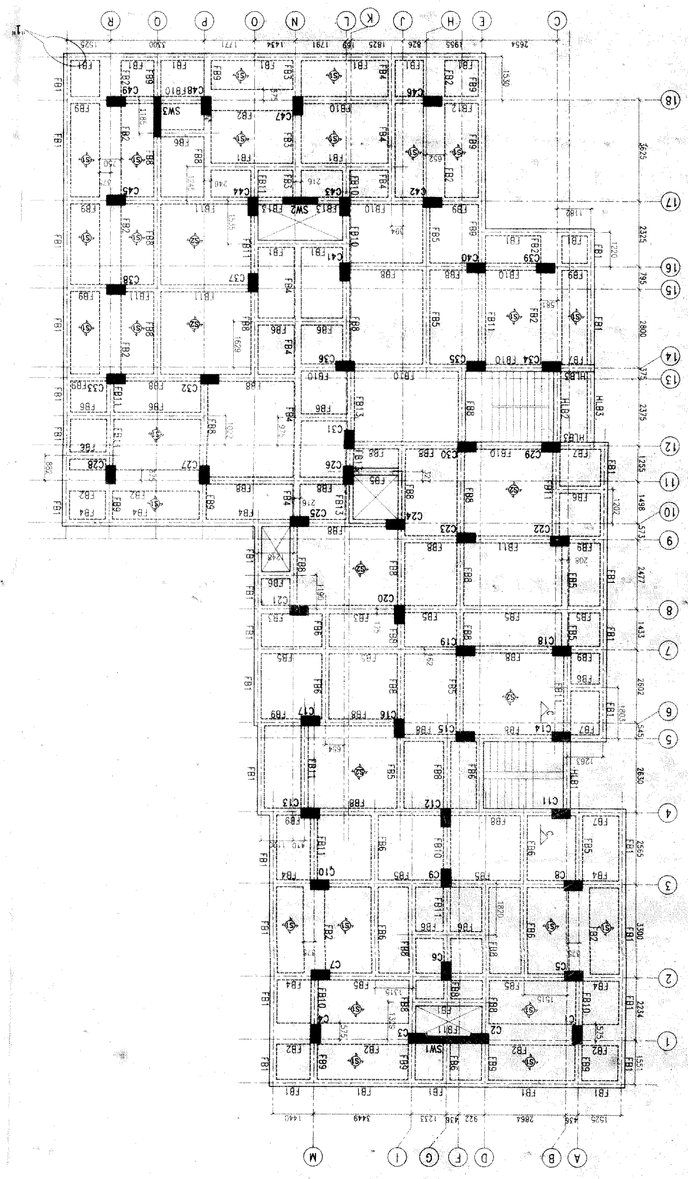
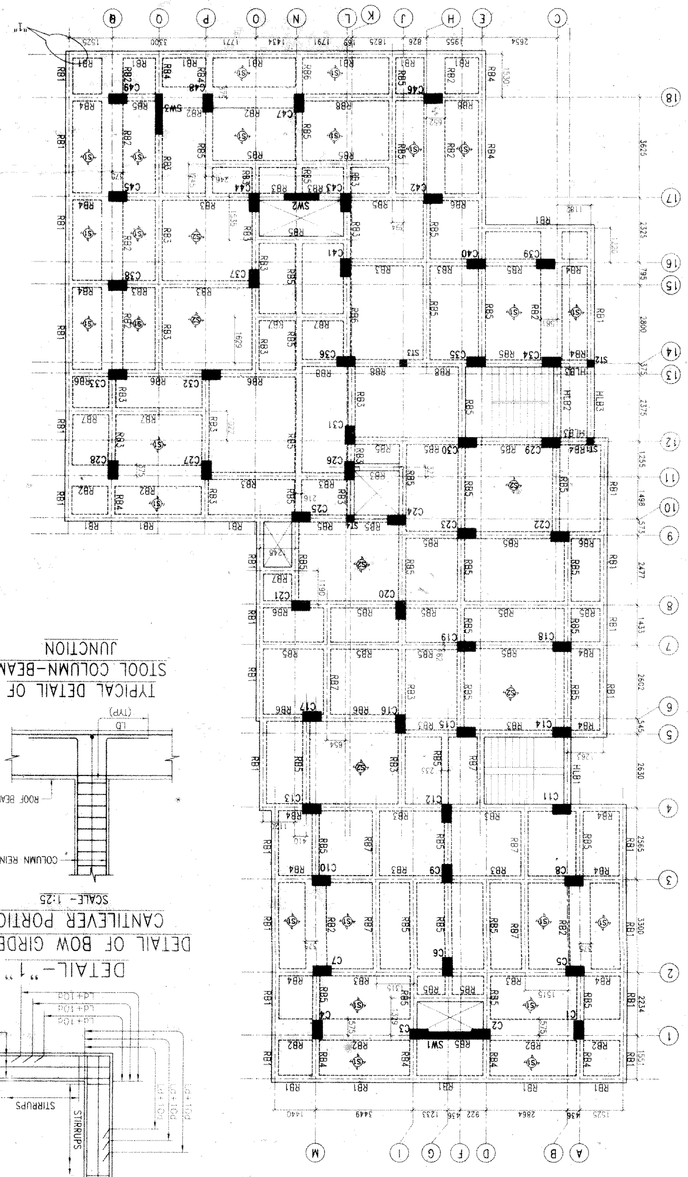
TYPICAL (1ST TO 8TH) FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)2.90m, 5.80m, 8.70m, 11.60m, 14.50m, 17.40m, 20.30m, 23.2m

ST MARKED SLABS 150 mm THICK, S2 MARKED SLAB 125 mm THICK, ALL OTHER SLABS 110 mm THICK
HLB REFERS TO HALF LANDING BEAMS
SCALE- 1:100



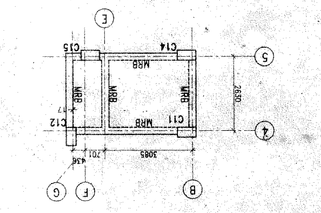
ROOF BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)26.10m.

ST MARKED SLABS 150 mm THICK, S2 MARKED SLAB 125 mm THICK, ALL OTHER SLABS 110 mm THICK
HLB REFERS TO HALF LANDING BEAMS
SCALE- 1:100



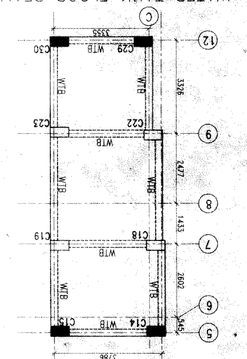
MUMTY ROOF BEAM & SLAB LAYOUT PLAN AT LVL. (+)28.50 m.

(SLAB 110 mm. THK.)
SCALE- 1:100



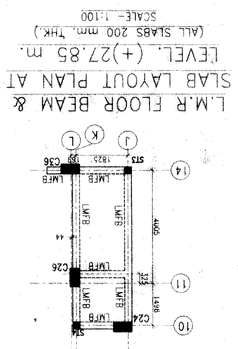
WATER TANK FLOOR BEAM AND SLAB LAYOUT PLAN (+) 27.10 m. LEVEL

(SLAB 200 mm THICK.)
SCALE- 1:100



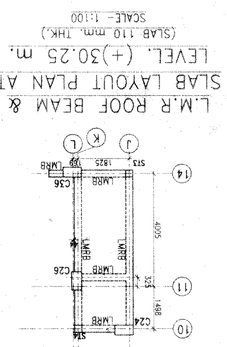
L.M.R FLOOR BEAM & SLAB LAYOUT PLAN AT LEVEL. (+)27.85 m.

(ALL SLABS 200 mm. THK.)
SCALE- 1:100



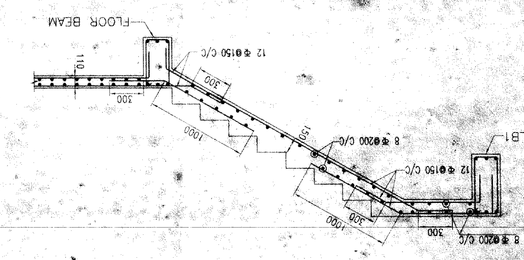
L.M.R ROOF BEAM & SLAB LAYOUT PLAN AT LEVEL. (+)30.25 m.

(SLAB 110 mm. THK.)
SCALE- 1:100



TYPICAL SECTIONAL DETAILS OF 150mm THK. STAIR WAIST SLAB

SCALE 1:25



SCHEDULE OF TYPICAL FLOOR (1st to 8th) & HALF LANDING BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT @	BOTTOM REINFORCEMENT ©	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
FB1	250	450	3-16 #	2-16 #	8-#@100 C/C	2.-8 #@100 C/C
FB2	250	100	2-16 #	-	4-#8 #@100 C/C	4-#8 #@100 C/C
FB3	300	500	3-20 #	3-20 #	12-#12 #@150 C/C	2-#12 #@150 C/C
FB4	250	450	3-16 #	3-16 #	10-#8 #@100 C/C	2-#10 #@100 C/C
FB5	250	450	3-16 #	3-16 #	8-#8 #@100 C/C	2.-8 #@100 C/C
FB6	250	400	3-16 #	-	8-#8 #@100 C/C	2.-8 #@100 C/C
FB7	250	450	3-20 #	2-16 #	10-#8 #@100 C/C	4.-10 #@100 C/C
FB8	250	450	3-20 #	2-16 #	8-#8 #@100 C/C	2.-8 #@100 C/C
FB9	250	450	3-20 #	2-16 #	10-#8 #@100 C/C	2.-10 #@100 C/C
FB10	250	450	3-20 #	2-20 #	12-#8 #@100 C/C	2.-8 #@100 C/C
FB11	250	450	3-20 #	2-20 #	12-#8 #@100 C/C	2.-10 #@100 C/C
FB12	250	450	3-20 #	2-20 #	12-#8 #@100 C/C	2.-8 #@100 C/C
FB13	250	300	3-20 #	3-20 #	2-#8 #@100 C/C	2.-10 #@100 C/C
HLB1	250	450	3-20 #	3-20 #	2-#8 #@100 C/C	2.-8 #@100 C/C
HLB2	250	450	3-20 #	3-20 #	2-#8 #@100 C/C	2.-8 #@100 C/C
HLB3	250	450	3-20 #	3-20 #	2-#8 #@100 C/C	2.-8 #@100 C/C
HLB4	250	450	3-20 #	3-20 #	2-#8 #@100 C/C	2.-8 #@100 C/C

SCHEDULE OF L.M.R FLOOR & WATER TANK FLOOR SLAB (THICKNESS- 200 mm.)

BAR MKD	REINFORCEMENT	POSITION
A	Ø8 @ 150 mm C/C (ALL THROUGH)	BOT
B	Ø8 @ 150 mm C/C (ALL THROUGH)	BOT
X	Ø8 @ 150 mm C/C (ALL THROUGH)	BOT
Y	Ø8 @ 150 mm C/C (ALL THROUGH)	BOT
C	Ø8 @ 150 mm C/C (CURTAILMENT)	TOP
DISMNDER)	Ø8 @ 150 mm C/C (ALL THROUGH)	TOP

SCHEDULE OF TYPICAL FLOOR SLAB & ROOF SLAB (THICKNESS- 110 & 125 mm.)

BAR MKD	REINFORCEMENT	POSITION
A	10Ø @150 mm C/C (ALT THROUGH)	BOT
B	10Ø @150 mm C/C (ALT THROUGH)	BOT
X	10Ø @150 mm C/C (ALT THROUGH)	BOT
Y	10Ø @150 mm C/C (ALT THROUGH)	BOT
C	10Ø @150mm C/C (CURTAILMENT)	TOP
DISMNDER)	8Ø @ 150 mm C/C (ALT THROUGH)	TOP

SCHEDULE OF TYPICAL FLOOR SLAB & ROOF SLAB (THICKNESS- 150 mm.)

BAR MKD	REINFORCEMENT	POSITION
A	10Ø @150 mm C/C (ALT THROUGH)	BOT
B	10Ø @150 mm C/C (ALT THROUGH)	BOT
X	10Ø @150 mm C/C (ALT THROUGH)	BOT
Y	10Ø @150 mm C/C (ALT THROUGH)	BOT
C	10Ø @150mm C/C (CURTAILMENT)	TOP
DISMNDER)	8Ø @ 150 mm C/C (ALT THROUGH)	TOP

SCHEDULE OF MUMTY ROOF SLAB & L.M.R. ROOF SLAB (THICKNESS- 110 mm.)

BAR MKD	REINFORCEMENT	POSITION
D	8T @125 mm C/C (ALT THROUGH)	BOT
E	8T @125 mm C/C (ALT THROUGH)	BOT
F	8T @125 mm C/C (ALT THROUGH)	TOP

SCHEDULE OF TYPICAL FLOOR SLAB & ROOF SLAB (THICKNESS- 150 mm.)

BAR MKD	REINFORCEMENT	POSITION
A	10Ø @150 mm C/C (ALT THROUGH)	BOT
B	10Ø @150 mm C/C (ALT THROUGH)	BOT
X	10Ø @150 mm C/C (ALT THROUGH)	BOT
Y	10Ø @150 mm C/C (ALT THROUGH)	BOT
C	10Ø @150mm C/C (CURTAILMENT)	TOP
DISMNDER)	8Ø @ 150 mm C/C (ALT THROUGH)	TOP

SCHEDULE OF ROOF BEAMS, L.M.R. FLOOR & ROOF BEAMS, WATER TANK FLOOR BEAMS & MUMTY ROOF BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT @	BOTTOM REINFORCEMENT ©	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
BB1	250	450	3-16 # +1-12 #	2-16 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB2	250	150	2-16 #	-	4-#8 #@100 C/C	4-#8 #@100 C/C
BB3	250	450	3-16 # +1-12 #	2-16 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB4	250	450	3-16 #	2-16 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB5	250	450	3-16 #	3-16 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB6	250	450	3-16 #	3-16 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB7	250	450	3-16 #	3-16 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB8	250	450	3-16 # +1-12 #	2-16 # +2-12 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB9	250	600	3-16 # +1-12 #	2-16 # +2-12 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB10	250	450	3-20 #	3-20 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB11	250	450	3-20 #	2-16 #	8-#8 #@100 C/C	2.-8 #@100 C/C
BB12	250	450	3-20 #	2-20 #	8-#8 #@100 C/C	2.-8 #@100 C/C
LMB1	250	450	2-16 # +1-12 #	-	2-8 #@150 C/C	2.-8 #@150 C/C
LMB2	250	450	3-16 #	2-16 #	8-#8 #@100 C/C	2.-8 #@150 C/C
MB1	250	450	3-16 #	3-16 #	8-#8 #@100 C/C	2.-8 #@150 C/C
MB2	250	450	3-20 #	2-16 #	8-#8 #@100 C/C	2.-8 #@150 C/C
MB3	250	450	3-20 #	3-20 #	8-#8 #@100 C/C	2.-8 #@150 C/C
MB4	250	450	3-20 #	2-20 #	8-#8 #@100 C/C	2.-8 #@150 C/C

TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)

(200 mm THK. L.M.R FLOOR SLAB & WATER TANK FLOOR SLAB)
& (110 mm THK. MUMTY ROOF SLAB & L.M.R ROOF SLAB)
(SCALE-N.T.S)

TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP & BOTTOM)

(110 mm. 125 mm & 150 mm THK. TYPICAL FLOOR SLAB & ROOF SLAB) *
(SCALE - N.T.S.)

SECTION-A-A

(SCALE-N.T.S)

SECTION-B-B

(SCALE-N.T.S)

TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM

TYPICAL CROSS SECTION OF BEAM

DETAIL OF BOW GIRDER IN CANTILEVER PORTION

SCALE- 1:25

TYPICAL DETAIL OF STOOL COLUMN-BEAM JUNCTION

SPECIAL NOTES:

THIS STRUCTURAL DRAWING IS VALID IF THE ARCHITECTURAL DRAWING IS FOLLOWED USING 250 mm THICK AAC BLOCKS IN EXTERNAL WALLS & 125 mm THICK AAC BLOCKS IN INTERNAL WALLS

DRAWING TITLE

TYPICAL FLOOR ROOF AND ABOVE ROOF BEAM & SLAB LAYOUT PLAN & REINFORCEMENT SCHEDULE & TYPICAL DETAIL OF SLAB REINFORCEMENT AND TYPICAL SECTION DETAILS OF STAIRCASE.

SCALE - 1:100 OR AS SHOWN
DATE - 17/02/2019
SHEET NO. - 3 OF 3

APPROVED
Municipal Town Planner
Balasaheb Bhiva Pansare.

Approved vide Memo No - 592/PE/2019
Dt- 22/11/19 & Assist. Engineer, Pune Municipality

CERTIFICATE OF OWNER

THIS IS TO CERTIFY THAT I SHALL NOT IN A LATER DATE MAKE ANY DEVIATION OF ALTERATION IN THE PLAN. THIS IS CERTIFIED THAT I HAVE GONE THROUGH THE NEC OF NGPA AND ALSO ABIDE BY THOSE RULES

ASHA ERADAS
BOE. ME (CIVIL) MIQS
DESIGNATED CONSULTANT/LICENSED
R.M.C. No. : CLASS -I/2

SIGNATURE OF THE VETTING AUTHORITY

THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME FOR THIS PROJECT

SIGNATURE OF GEOTECHNICAL ENGINEER

VIJAYA SINGH
CONSULTING ARCHITECT
COAC REGISTRED
LIC NO - COAC/89/98

CERTIFICATE OF ARCHITECT/ENGINEER

I DO HEREBY CERTIFY THAT THE BUILDING PLAN HAS BEEN PREPARED BY ME KEEPING THE PROVISION OF NBC OF INDIA AND CENTRY THAT IT IS SAFE & STABLE IN ALL RESPECT.

NOTES-

1. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE
2. ALL DIMENSIONS ARE IN MILLIMETERS & LEVELS ARE IN METER EXCEPT OTHERWISE MENTIONED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED. ALL LEVELS GIVEN IN ARCHITECTURAL DRAWINGS. AND STRUCTURAL LEVEL STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ONLY (WITHOUT FINISH)
3. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500 D
5. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH=50xBAR DIA. CONFORMING TO IS-1786-2008
6. CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS
   i) BEAMS : 30 mm
   ii) SLAB : 20 mm
   OF FIRE RESISTANCE : 70 mm
   iii) BEAMS SURROUNDING THE STAIR ROOM TO MEET 4 HRS.
   iv) WAIST SLAB TO MEET 4 HRS. OF FIRE RESISTANCE : 55 mm.
7. GRADE OF CONCRETE FOR SUPER STRUCTURE SHALL BE AS FOLLOWS-
   FOUNDATION TO 4TH FLOOR LVL.= M30
   4TH TO ROOF LVL.= M25
8. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY
9. DEVELOPMENT LENGTH SHOD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP24:1987
10. WHEREVER A SUPPORTED MEMBER TERMINATES AT A SUPPORTING MEMBER AN ANCHORAGE OF 500 IN THE MEMBER SHOULD HAVE THE BARS OF THE SUPPORTED SUPPORTING MEMBER
11. WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HOOKER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE

TITLE

PROPOSED STRUCTURAL DRAWING OF G+8 STOREY APARTMENT CUM COMMERCIAL BUILDING FOR "M/S BANERJEE BUILDERS" OVER L.R. PLOT NO.- 2133, L.R. KHATIAN NO. - 680/1, 1127 OF MOUZA- ARRAH , J.L. NO.- 091, P.S.- KANKSA, DIST- PASCHIM BARDHAMAN.

CERTIFICATE OF STRUCTURAL ENGINEER

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.

Jayanta Mukherjee 19/2/19
B.E. (CIVIL), M.E. (STRUCTURAL)
ENGINEER (R.)
WEST BENGAL