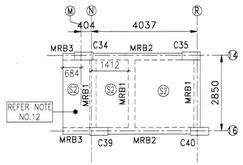
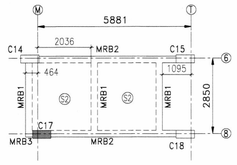


MUMTY-2 BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)27.130m.

S2 MARKED SLABS ARE 115mm. THICK.

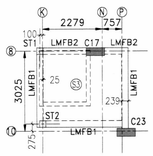
SCALE-1:100



MUMTY-1 BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)27.130m.

S2 MARKED SLABS ARE 115mm. THICK.

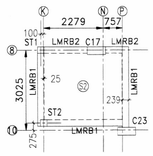
SCALE-1:100



L.M.R FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)26.450m.

S3 MARKED SLABS ARE 150mm. THICK.

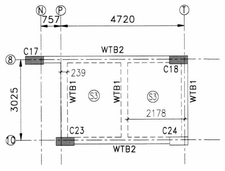
SCALE-1:100



L.M.R ROOF BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)28.850m.

S2 MARKED SLABS ARE 115mm. THICK.

SCALE-1:100

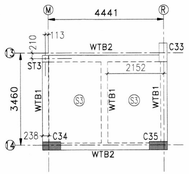


WATER TANK-1 BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)25.700m.

WATER TANK CAPACITY-10,000LIT.

S3 MARKED SLABS ARE 150mm. THICK.

SCALE-1:100



WATER TANK-2 BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)25.700m.

WATER TANK CAPACITY-10,000LIT.

S3 MARKED SLABS ARE 150mm. THICK.

SCALE-1:100

SCHEDULE OF TIE BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
TB1	250	400	3-16ϕ	-	3-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
TB2	250	400	2-20ϕ +1-16ϕ	-	2-20ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
TB3	250	400	2-20ϕ +1-16ϕ	2-16ϕ	LAYER1 2-20ϕ +1-16ϕ LAYER2 +2-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
TB4	250	400	3-16ϕ	2-12ϕ	3-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
TB5	250	400	3-16ϕ +3-16ϕ	-	3-16ϕ +2-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
TB6	250	400	3-16ϕ	-	2-16ϕ +1-20ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
TB7	250	400	LAYER1 2-20ϕ +1-16ϕ LAYER2 +3-20ϕ	-	LAYER1 2-20ϕ +1-16ϕ LAYER2 +3-20ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@100 C/C
TB8	250	400	3-16ϕ +2-16ϕ	-	3-16ϕ +2-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@100 C/C

SCHEDULE OF TYPICAL FLOOR BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
FB1	250	400	2-12ϕ +1-16ϕ	-	2-16ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@150 C/C
FB2	250	450	2-12ϕ +1-16ϕ	-	3-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
FB3	250	450	3-20ϕ	2-16ϕ	3-20ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
FB4	250	450	3-20ϕ	3-16ϕ	3-20ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
FB5	250	450	3-20ϕ +3-20ϕ	-	3-20ϕ +3-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
FB6	250	450	2-20ϕ +1-20ϕ	-	2-25ϕ +1-20ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
FB7	250	450	LAYER1 2-20ϕ +1-20ϕ LAYER2 +3-20ϕ	-	LAYER1 2-25ϕ +1-20ϕ LAYER2 +3-20ϕ	-	2L-10ϕ@100 C/C	2L-10ϕ@100 C/C
FB8	250	450	3-16ϕ	-	3-16ϕ	3-20ϕ	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
FB9	250	450	3-20ϕ	3-20ϕ	3-20ϕ	3-16ϕ	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
FB10	250	450	3-16ϕ	-	3-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
FB11	250	450	3-20ϕ	2-20ϕ	3-20ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
FB12	250	450	3-20ϕ +3-20ϕ	-	3-20ϕ +2-20ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@100 C/C
HLB1	250	450	3-16ϕ	3-16ϕ	3-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
HLB2	250	450	3-16ϕ +2-16ϕ	-	3-16ϕ +2-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
HLB3	250	450	2-12ϕ +1-16ϕ	-	2-12ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C

SCHEDULE OF ROOF BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
RB1	250	450	2-12ϕ +1-16ϕ	-	2-12ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB2	250	450	2-12ϕ +1-16ϕ	2-12ϕ	2-12ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB3	250	450	2-12ϕ +1-16ϕ	-	3-12ϕ +2-12ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@100 C/C
RB4	250	450	2-12ϕ +1-16ϕ	3-12ϕ	2-12ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB5	250	450	2-12ϕ +1-16ϕ	3-20ϕ	2-12ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB6	250	450	2-12ϕ +1-16ϕ	-	2-12ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB7	250	450	2-12ϕ +1-16ϕ	-	2-12ϕ +1-16ϕ	3-20ϕ	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB8	250	450	2-12ϕ +1-16ϕ	-	3-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB9	250	450	3-16ϕ	3-16ϕ	3-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB10	250	450	2-12ϕ +1-16ϕ	3-16ϕ	2-12ϕ +1-16ϕ	2-16ϕ	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB11	250	450	3-16ϕ	3-16ϕ	3-16ϕ	2-20ϕ	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB12	250	450	2-12ϕ +1-16ϕ	-	2-16ϕ +1-12ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
RB13	250	450	3-12ϕ +3-16ϕ	-	2-12ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@100 C/C
HLB1	250	450	3-16ϕ	3-16ϕ	3-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
HLB2	250	450	3-16ϕ +2-16ϕ	-	3-16ϕ +2-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
HLB3	250	450	2-12ϕ +1-16ϕ	-	2-12ϕ +1-16ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C

SCHEDULE OF ABOVE ROOF BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	TOP REINFORCEMENT EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	BOTTOM REINFORCEMENT EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
LMRB1	250	400	3-12ϕ	-	3-12ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
LMRB2	250	400	3-12ϕ	-	3-12ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@100 C/C
MRB1	250	400	3-12ϕ	-	3-12ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
MRB2	250	400	3-12ϕ	2-12ϕ	3-12ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
MRB3	250	400	3-12ϕ	-	3-12ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@100 C/C
LMFB1	250	400	3-12ϕ	2-12ϕ	3-12ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
LMFB2	250	400	3-12ϕ	-	3-12ϕ	-	2L-8ϕ@100 C/C	2L-8ϕ@100 C/C
WTB1	250	450	3-12ϕ	2-12ϕ	3-12ϕ	2-12ϕ	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C
WTB2	250	450	3-12ϕ	3-16ϕ	3-12ϕ	2-16ϕ	2L-8ϕ@100 C/C	2L-8ϕ@200 C/C

SCHEDULE OF S3 MARKED SLABS (WATER TANK-1,2 & L.M.R FLOOR SLAB THICKNESS-150mm.)

BAR MKD.	REINFORCEMENT	POSITION
E	10T @ 200 mm C/C (ALL THROUGH)	BOT.
F	10T @ 200 mm C/C (ALL THROUGH)	TOP

SCHEDULE OF S1 MARKED SLABS (TYPICAL FLOOR & ROOF SLABS THICKNESS-115mm.)

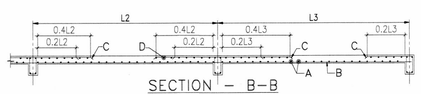
BAR MKD.	REINFORCEMENT	POSITION
A	8ϕ @ 150 mm C/C (ALL THROUGH)	BOT.
B	8ϕ @ 150 mm C/C (ALL THROUGH)	BOT.
X	8ϕ @ 150 mm C/C (ALL THROUGH)	BOT.
Y	8ϕ @ 150 mm C/C (ALL THROUGH)	BOT.
C	8ϕ @ 150mm C/C (CURTAILMENT)	TOP
D(BINDER)	8ϕ @ 200 mm C/C (WHEREVER REQUIRED)	TOP

SCHEDULE OF S2 MARKED SLABS (MUMTY-1,2 & L.M.R ROOF SLAB THICKNESS-115mm.)

BAR MKD.	REINFORCEMENT	POSITION
E	8T @ 150 mm C/C (ALL THROUGH)	BOT.
F	8T @ 150 mm C/C (ALL THROUGH)	TOP

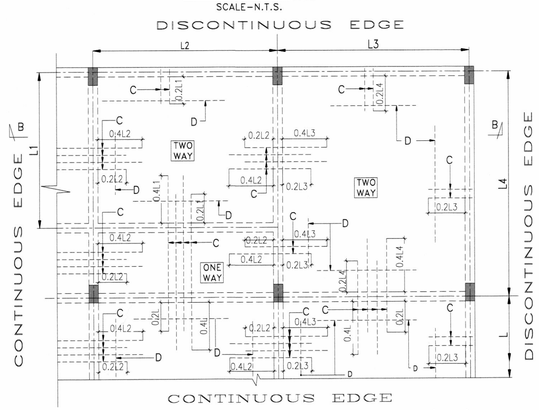
SPECIAL NOTES:-

1. THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.



SECTION - B-B

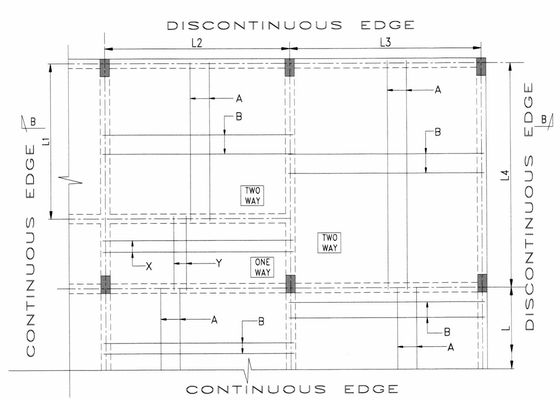
SCALE-N.T.S.



TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP)

(SLAB MARKED S1)

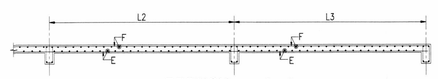
SCALE-N.T.S



TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)

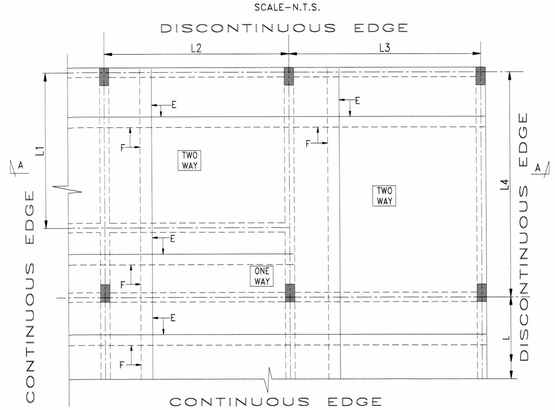
(SLAB MARKED S1)

SCALE - N.T.S.



SECTION - A-A

SCALE-N.T.S.



TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP & BOTTOM)

(SLAB MARKED S2 & S3)

SCALE-N.T.S

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 STRUCTURAL DRAWINGS ARE IN ACCORDANCE WITH ARCHITECTURAL DRAWINGS AND INDICATE STRUCTURAL LEVEL 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-500/500D CONFORMING TO IS-1786-2008.
5. UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50xBAR DIA.
6. CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
   - i) COLUMNS : 40 mm
   - ii) BEAMS : 30 mm
   - iii) SLABS : 20 mm
   - iv) WAIST SLAB : 20 mm
7. GRADE OF CONCRETE FOR SUPERSTRUCTURE UPTO & INCLUDING 4TH FLOOR WILL BE OF M30 AND ABOVE THAT FLOOR WILL BE OF M25 AS PER IS:456:2000
8. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
9. DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
10. WHEREVER A SUPPORTED MEMBER TERMINATES AT A SUPPORTING MEMBER THE BARS OF THE SUPPORTED MEMBER SHOULD HAVE AN ANCHORAGE OF 60D IN THE SUPPORTING MEMBER.
11. WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE.
12. ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UPTO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

TITLE-

STRUCTURAL DRAWING OF PROPOSED G+7 STORIED RESIDENTIAL (APARTMENT) BUILDING OF SUBHENDU MUKHERJEE,SADHANA MUKHERJEE, KRISHNENDU MUKHERJEE, DIPTI MUKHERJEE, KAMAL MUKHERJEE, INDRANIL MUKHERJEE, SHASHWATI MUKHERJEE, INDRIL MUKHERJEE & SUBHRA MUKHERJEE OVER R.S. PLOT NO - 603 & 604, L.R. PLOT NO.- 3334, KHATIAN NO.- 5607,5657,5667, 5666,5686,5699,5679,5700,5672 MOUZA - NADIHA, J.L. NO- 92, P.S. - COKEOVEN, DIST- PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF L.B.S./ENGINEER/ARCHITECT

AR. VIJAYA SINGH MAZUMDER
CONSULTING ARCHITECT
COA REGISTERED
CA/2021/134276

SIGNATURE OF GEO-TECHNICAL ENGINEER

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT

Structcon

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DRAWING TITLE

REINF. DETAILS OF TIE, TYPICAL & ROOF BEAMS. BEAM & SLAB LAYOUT PLAN WITH REINF. DETAILS SLABS.

SCALE.-1:100 OR AS SHOWN

DATE.- 21.02.2025

SHEET NO.- 4 OF 4 | SHEET SIZE- A1