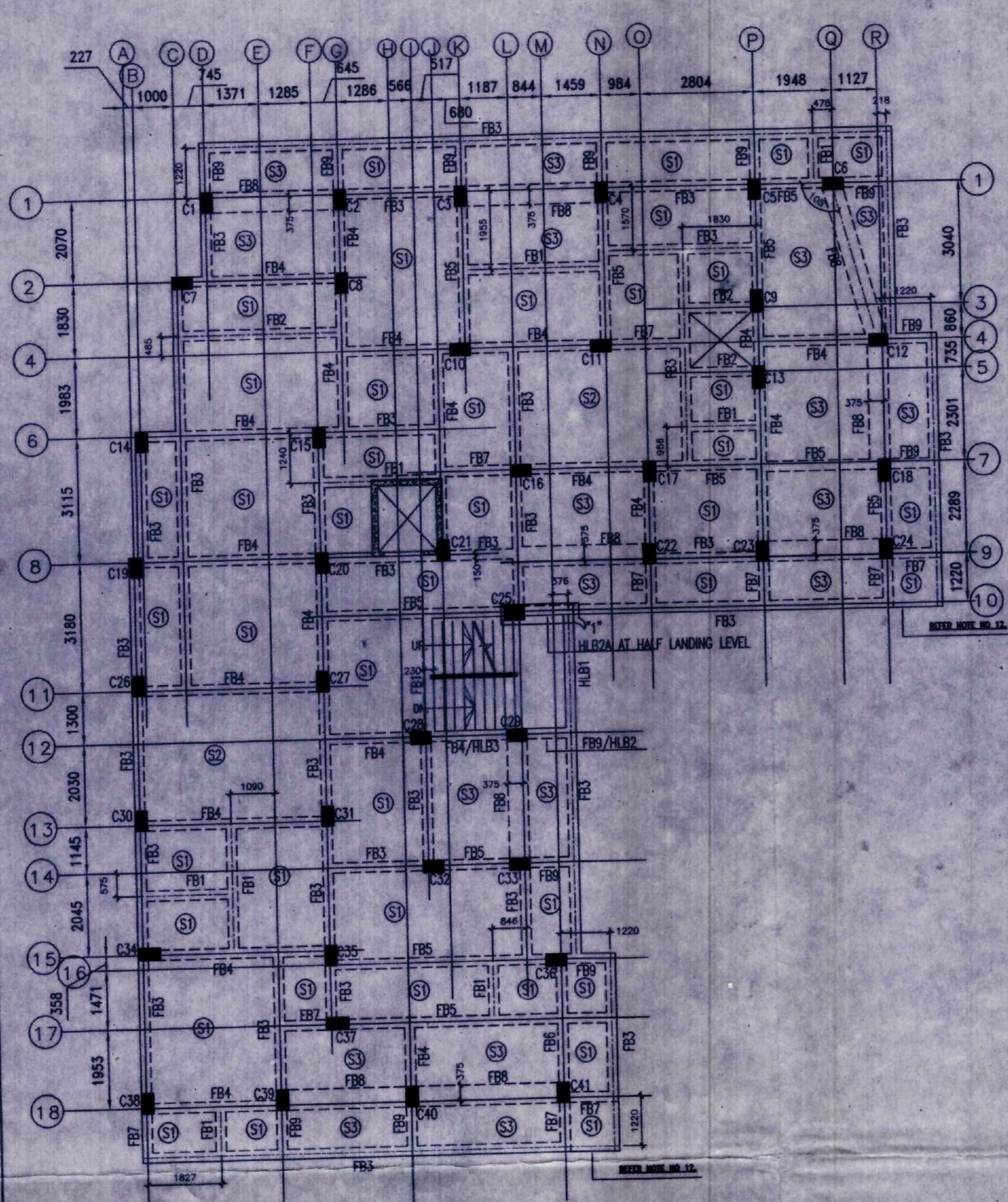
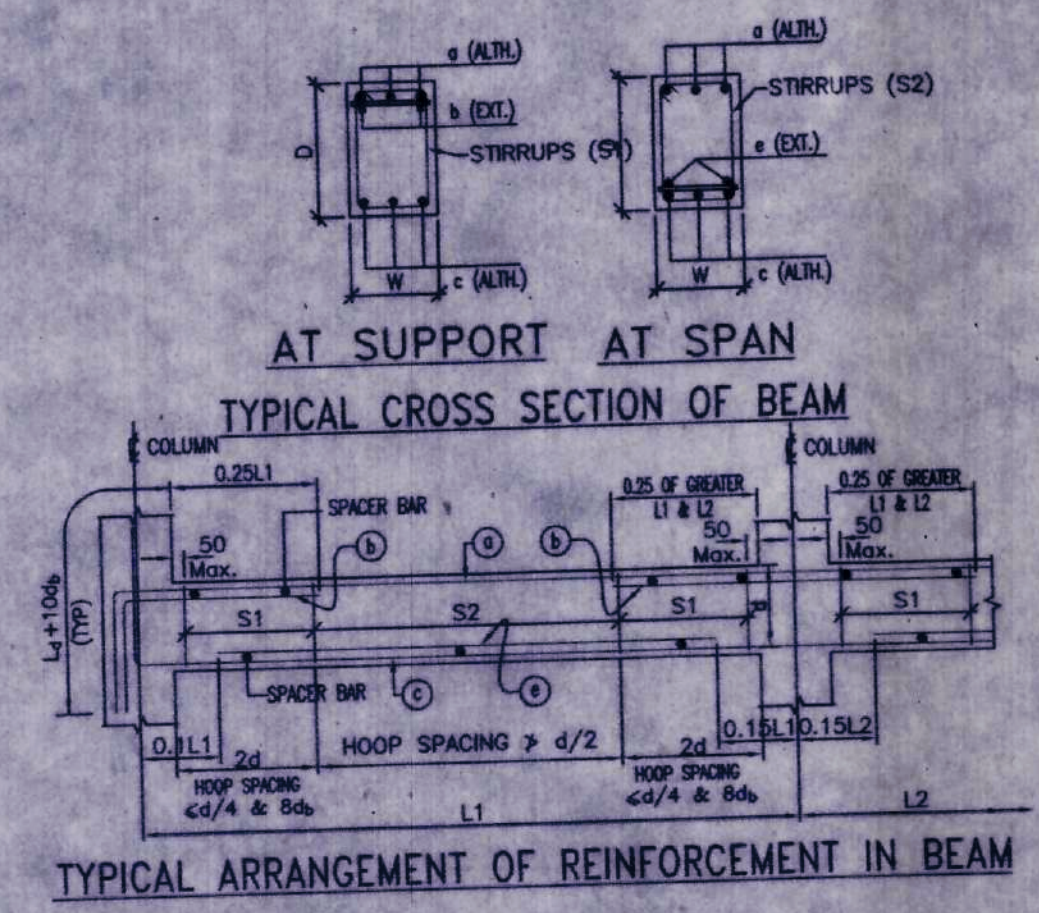
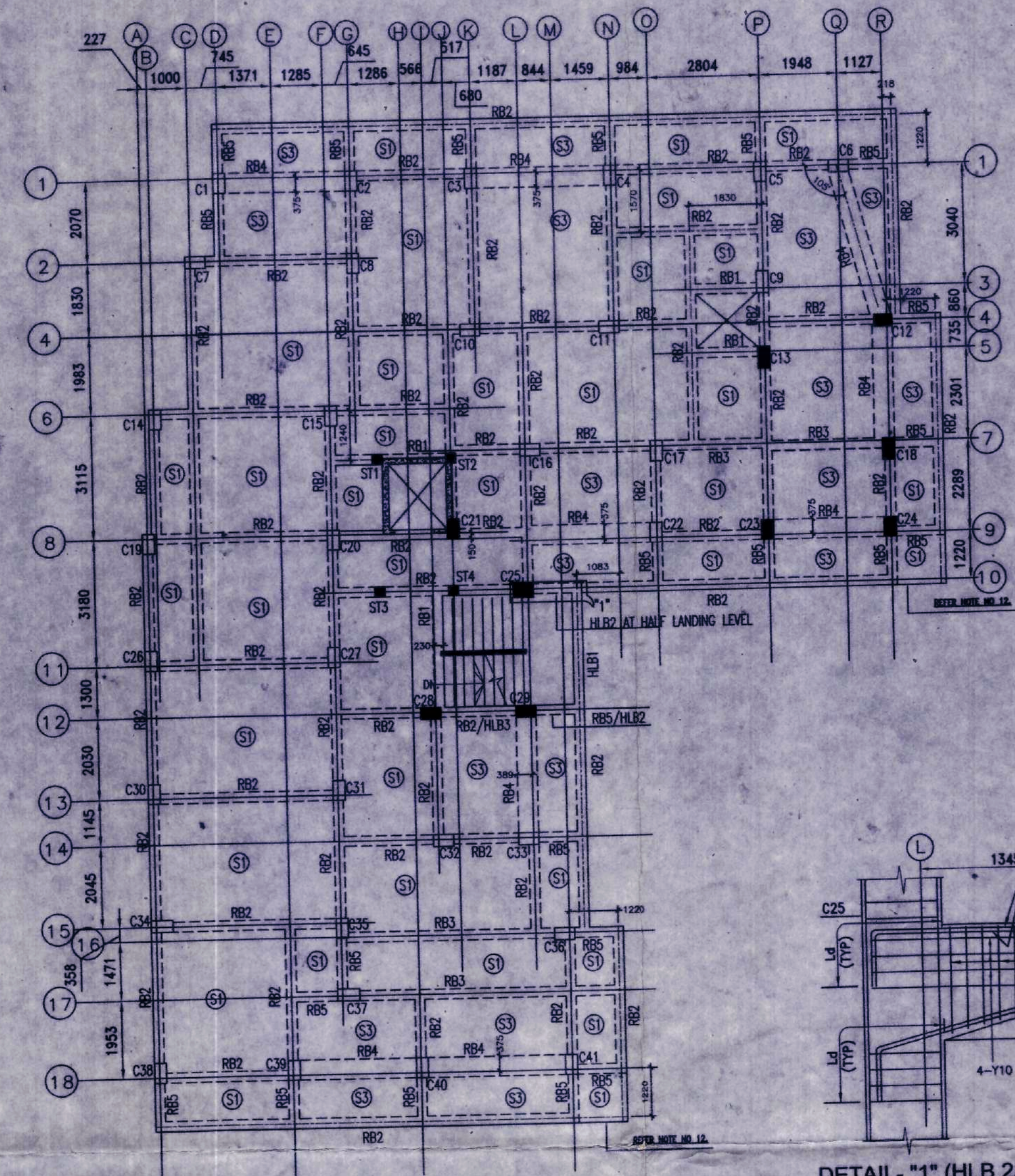




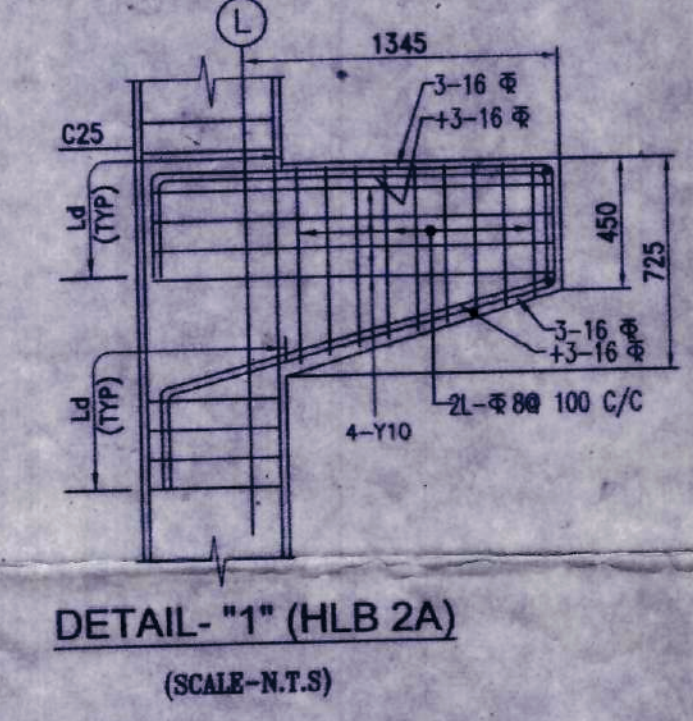
TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN
AT LEVELS (+)2.9m, (+)5.8m, (+)8.7m, (+)11.6m, (+)14.5m
S1 MARKED SLABS ARE 115 mm THICK
S2 MARKED SLABS ARE 125 mm THICK
S3 MARKED SLABS ARE 150 mm THICK
HLB REFERS TO HALF LANDING BEAM
SCALE- 1:100



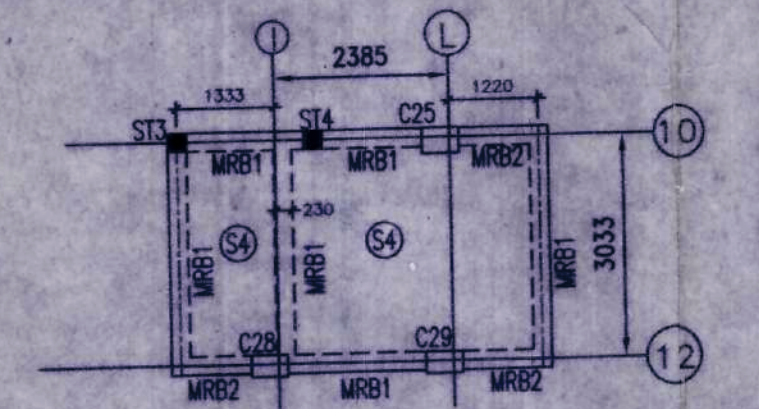
TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM



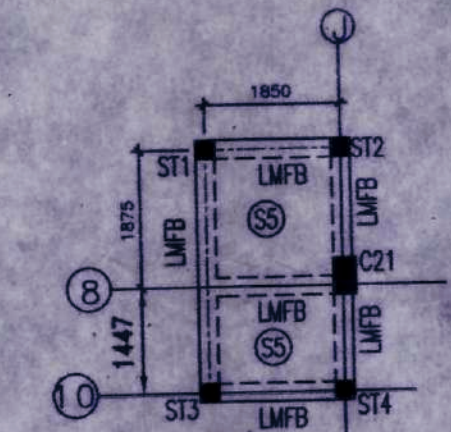
ROOF FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)17.4m
S1 MARKED SLABS ARE 115 mm THICK
S3 MARKED SLABS ARE 150 mm THICK
HLB REFERS TO HALF LANDING BEAM
SCALE- 1:100



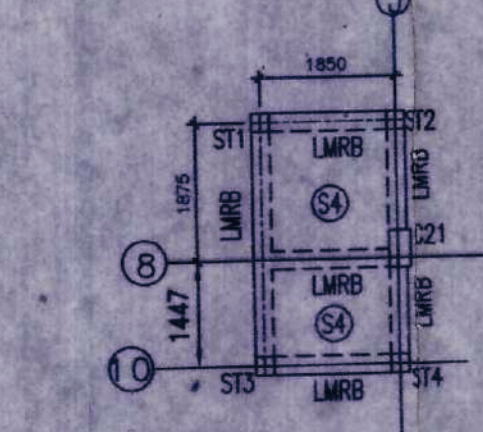
DETAIL- "1" (HLB 2A)
(SCALE-N.T.S)



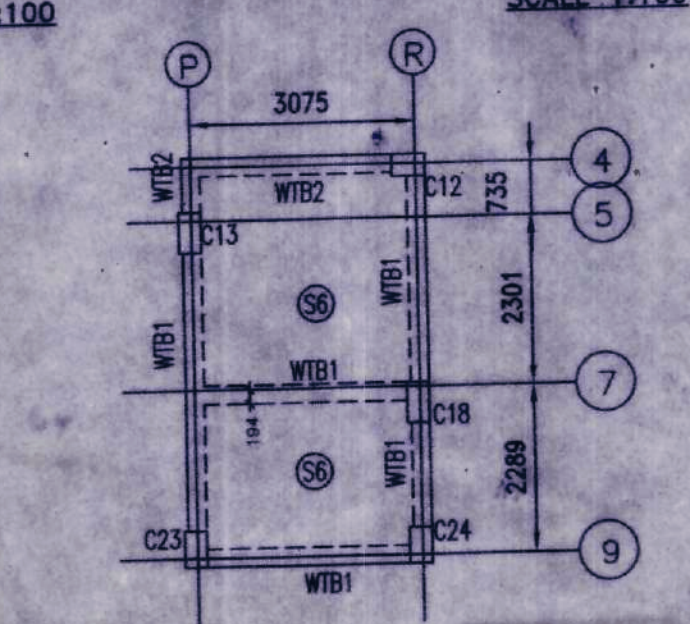
MUMTY ROOF BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)19.8 m.
S4 MARKED SLABS ARE 115 mm THICK
SCALE 1:100



LMR FLOOR BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)18.9 m.
S5 MARKED SLABS ARE 150mm THICK
SCALE 1:100



LMR ROOF BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)20.65 m.
S4 MARKED SLABS ARE 115mm THICK
SCALE 1:100



WATER TANK FLOOR BEAM AND SLAB LAYOUT PLAN
AT LEVEL (+)18.4 m.
S6 MARKED SLABS ARE 200 mm THICK
SCALE 1:100

BEAM MARKED	BEAM SIZE WIDTH (mm) DEPTH (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)		STIRRUPS (AT SPAN)	
		ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	S1	S2	S1	S2
FB1	250 400	3-16 #	-	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
FB2	250 400	3-16 #	2-12 #	3-16 #	2-12 #	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
FB3	250 450	3-16 #	-	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
FB4	250 450	3-16 #	2-16 #	3-16 #	2-12 #	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
FB5	250 450	3-16 #	3-16 #	3-16 #	2-12 #	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
FB6	250 450	3-16 #	3-16 #	3-16 #	3-16 #	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
FB7	250 450	3-16 #	3-16 #	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
FB8	500 150	5-16 #	-	5-16 #	-	4L-8 # @ 100 C/C	4L-8 # @ 150 C/C	-	-
FB9	250 450	3-16 #	3-16 #	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 100 C/C	-	-
HLB1	250 450	3-16 #	2-12 #	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 100 C/C	-	-
HLB2	250 450	3-16 #	2-12 #	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 100 C/C	-	-
HLB2A	250 450	3-16 #	2-12 #	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 100 C/C	-	-
HLB3	250 450	3-16 #	2-16 #	3-16 #	2-12 #	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-

BEAM MARKED	BEAM SIZE WIDTH (mm) DEPTH (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT)		STIRRUPS (AT SPAN)	
		ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN	S1	S2	S1	S2
RB1	250 400	3-16 #	-	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
RB2	250 450	3-16 #	-	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
RB3	250 450	3-16 #	2-12 #	3-16 #	2-12 #	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
RB4	500 150	5-16 #	-	5-16 #	-	4L-8 # @ 100 C/C	4L-8 # @ 150 C/C	-	-
RB5	250 450	3-16 #	2-12 #	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 100 C/C	-	-
WTB1	250 500	3-16 #	3-12 #	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
WTB2	250 500	3-16 #	2-12 #	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 100 C/C	-	-
LMB1	250 450	3-16 #	2-12 #	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
LMB2	250 450	3-16 #	-	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
MRB1	250 450	3-16 #	-	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 150 C/C	-	-
MRB2	250 450	3-16 #	-	3-16 #	-	2L-8 # @ 100 C/C	2L-8 # @ 100 C/C	-	-

IMPORTANT NOTE:
THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.

- NOTES :**
- UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
 - 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).
 - ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
 - UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500D CONFORMING TO IS-1786-2008.
 - UNLESS OTHERWISE STATED LAP LENGTH OF BARS SHALL BE EQUAL TO THE DEVELOPMENT LENGTH = 50x BAR DIA.
 - CONCRETE NOMINAL COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
i) COLUMNS : 40 mm
ii) BEAMS : 30 mm
iii) SLABS : 20 mm
iv) WAIST SLAB : 20 mm
 - GRADE OF CONCRETE FOR SUPERSTRUCTURE WILL BE M25 AS PER IS:456:2000.
 - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
 - DEVELOPMENT LENGTH 50xD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987
 - 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.
 - WHEN TWO BEAMS MEET AT A COLUMN LOCATION ALONG THE SAME LINE THE HIGHER REINFORCEMENT AT THE TOP SHOULD BE CONTINUED AT BOTH SIDE.
 - IN 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.
- SPECIAL NOTE:**
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.

TITLE
STRUCTURAL DRAWING OF PROPOSED PLAN OF G+5 STORIED RESIDENTIAL (APARTMENT) BUILDING OF SHREE SHYAM BUILDERS AND DEVELOPERS OVER L.R. PLOT NO. - 1657, 1658, L.R. KHATIAN NO.-4082, 323, 5079, 5080, R.S PLOT NO.- 1567, J.L. NO- 91, MOUZA -ARRAH, P.S. KANKSHA, DIST- PASCHIM BARDHAMAN.

LAND OWNERS : 1) SRI. MANIK CHAND MAHARAJ
2) SMT. DEBJANI GORAI
3) SRI. SUKUMAR MANDAL
4) SMT. MUKTI MANDAL

SIGNATURE OF L.B.S./ENGINEER/ARCHITECT
[Signature]
Ar. VIJAYA SINGH MAZUMDER
COA Registered
CA/2021/134276
DMC REGISTERED
9332802186 / 9476428108
LIC NO. - DMC/BPD/60
SIGNATURE OF GEOTECHNICAL ENGINEER
THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME FOR THIS PROJECT

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.

SIGNATURE OF THE VETTING AUTHORITY
[Signature]
CHECKED & VETTED
DR. DIPANKAR CHAKRABORTY
STRUCTURAL ENGINEERING DIVISION
PROFESSIONAL ENGINEER
CIVIL ENGINEERING
BANGALORE UNIVERSITY
M.TECH (HONORARY GOLD MEDALIST)
P.E.D. (P.E.D.)
COE P.O. 252/2008
503 MEDICAL COLLEGE, 503/131313
EMAIL: Prof.dipankar@gmail.com

APPROVED 475/PS-02/2022
Vide Memo No. 475/PS-02/2022
DIRECTOR, ENGINEER OF PASCHIM BARDHAMAN ZILA PARIKSHAD
[Signature]
Prachan
Matandighi Gram Panchayat
Kulidina, Durgapur-713212

CERTIFICATE OF OWNER
[Signature]
DRAWING TITLE
TYPICAL, ROOF AND ABOVE ROOF FLOOR BEAM AND SLAB LAYOUT PLAN AND REINFORCEMENT SCHEDULE.
SCALE-1:100 OR AS SHOWN
DATE- 20.04.2021
SHEET NO. - 3 OF 4