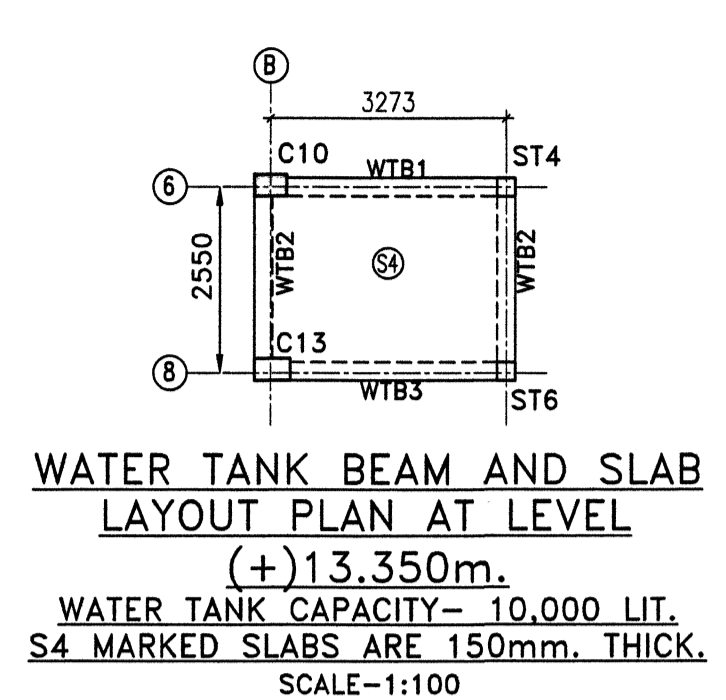


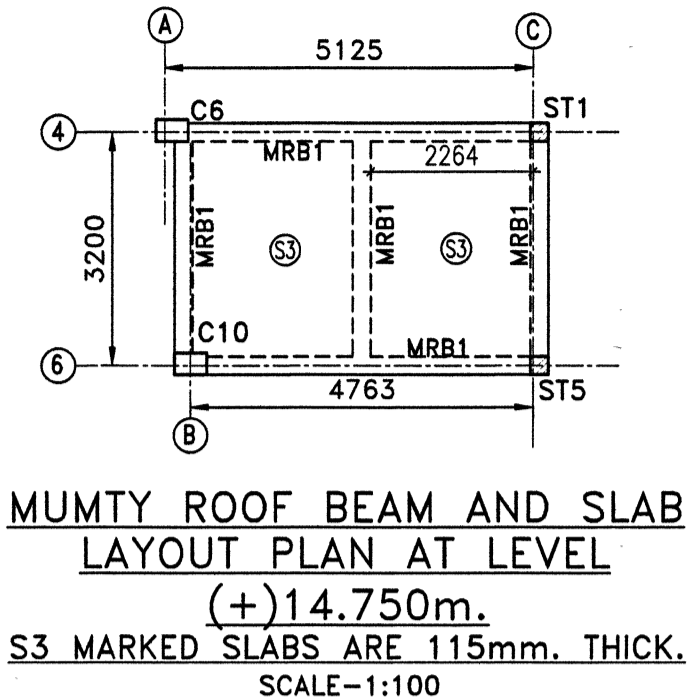
ROOF BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)12.350m.
S1 MARKED SLABS ARE 115mm THICK.
LB REFERS TO LANDING BEAM.
SCALE-1:100

SCHEDULE OF ROOF BEAMS						
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT	
	WIDTH (mm)	DEPTH (mm)	ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN
RB1	250	450	3-12	-	2-12	-
RB2	250	500	2-12	-	2-12	-
RB3	250	500	2-12	-	2-12	-
RB4	250	500	2-12	3-16	2-16	-
RB5	250	500	2-12	2-12	2-12	-
RB6	250	500	2-12	-	3-16	-
RB7	250	500	3-16	3-20	2-16	-
RB8	250	500	3-16	3-20	3-16	-
RB9	250	500	3-16	3-12	2-12	-
RB10	250	500	LAYER 1: 2-12 LAYER 2: 2-12	-	2-12	-
RB11	250	500	3-20	3-20	3-20	-
RB12	250	500	3-20	2-16	3-20	-
RB13	250	500	3-16	-	LAYER 1: 2-12 LAYER 2: 2-12	-
LB	250	500	3-16	2-12	2-16	-

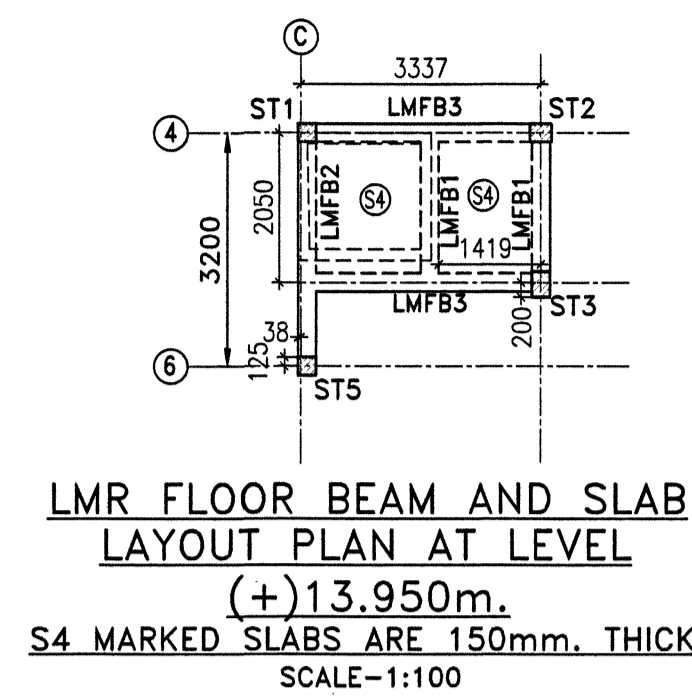
SCHEDULE OF ABOVE ROOF BEAMS						
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT	
	WIDTH (mm)	DEPTH (mm)	ALTHROUGH	EXTRA AT SUPPORT	ALTHROUGH	EXTRA AT SPAN
WTB1	250	450	2-12	-	2-12	-
WTB2	250	450	2-12	-	2-12	-
WTB3	250	450	3-16	2-16	2-12	-
MRB1	250	400	2-12	-	3-12	-
LMRB1	250	400	3-12	-	3-12	-
LMRB2	250	400	3-12	-	3-12	-
LMFB1	250	400	3-12	-	3-12	-
LMFB2	250	400	3-12	-	3-12	-
LMFB3	250	400	3-12	3-12	3-12	-



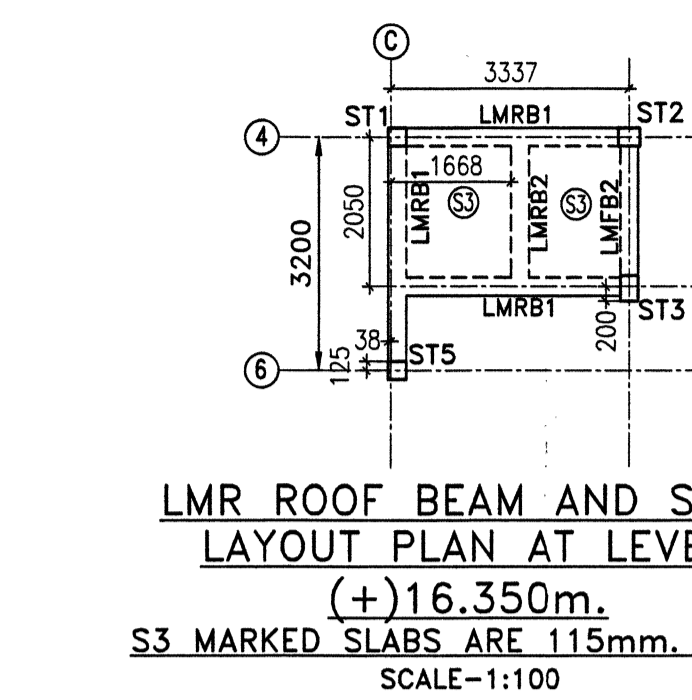
WATER TANK BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)13.350m.
WATER TANK CAPACITY-10,000 LIT.
S4 MARKED SLABS ARE 150mm THICK.
SCALE-1:100



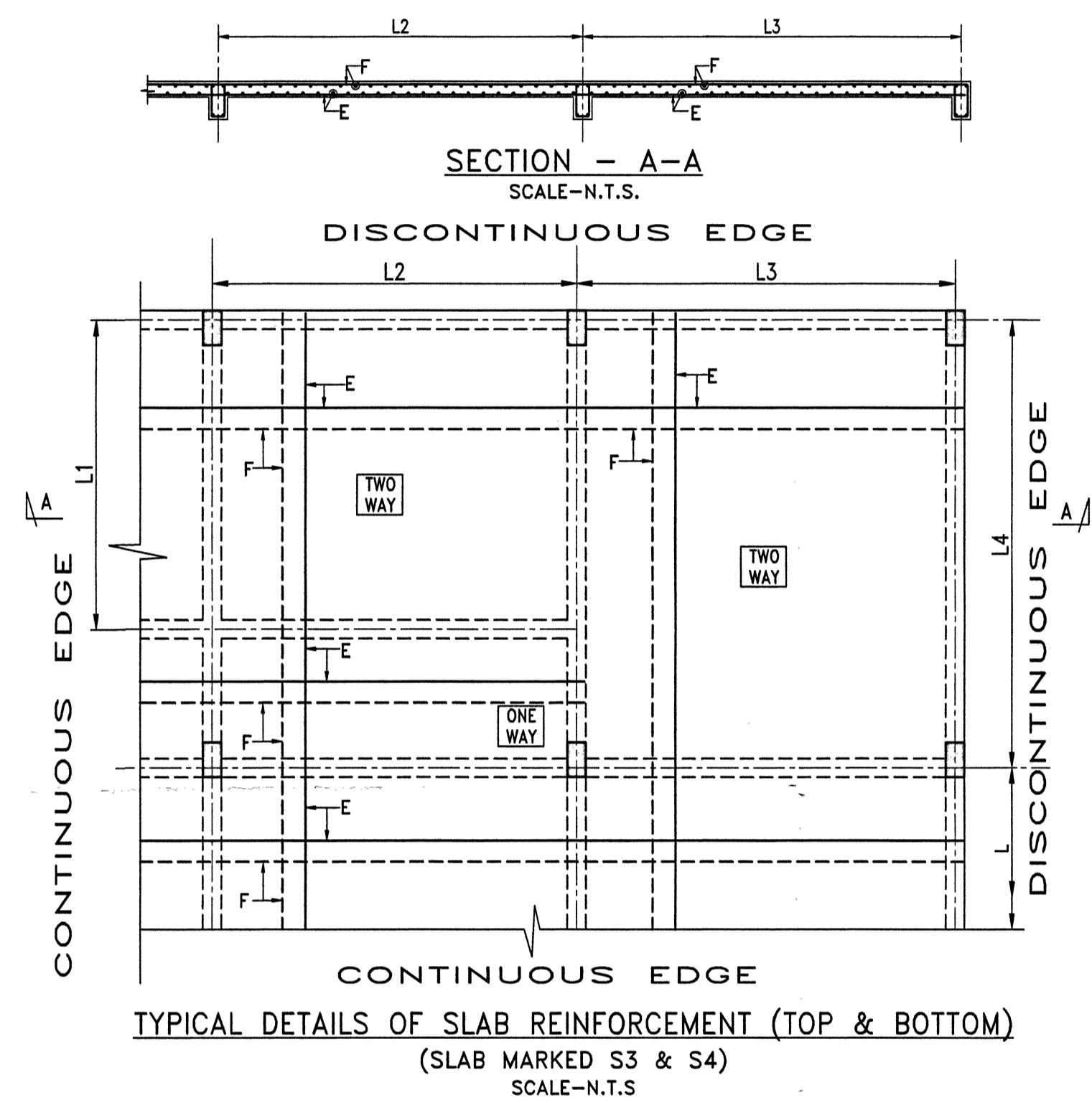
MUMTY ROOF BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)14.750m.
S3 MARKED SLABS ARE 115mm THICK.
SCALE-1:100



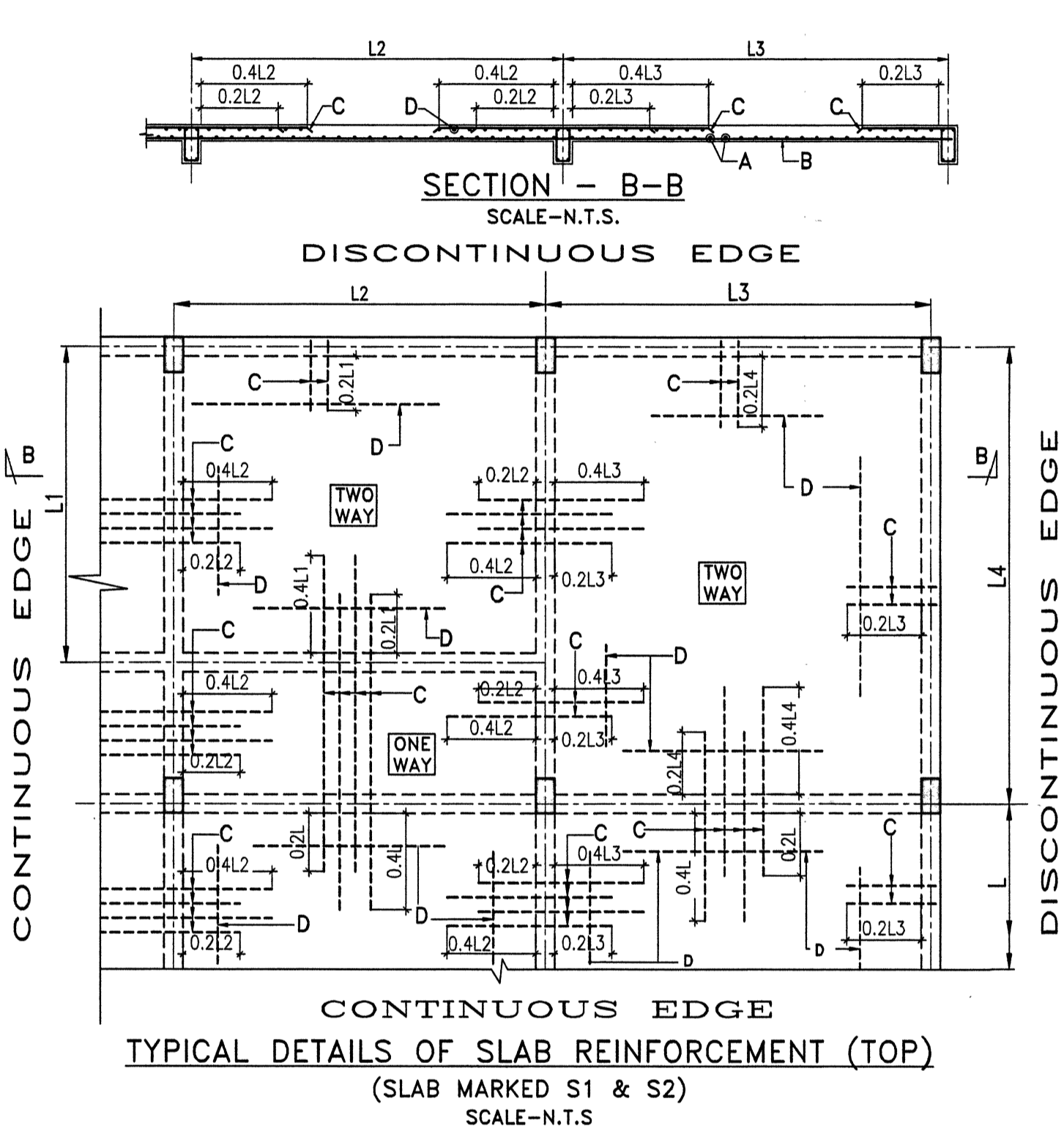
LMR FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)13.950m.
S4 MARKED SLABS ARE 150mm THICK.
SCALE-1:100



LMR ROOF BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)16.350m.
S3 MARKED SLABS ARE 115mm THICK.
SCALE-1:100



TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP & BOTTOM)
(SLAB MARKED S3 & S4)
SCALE-N.T.S



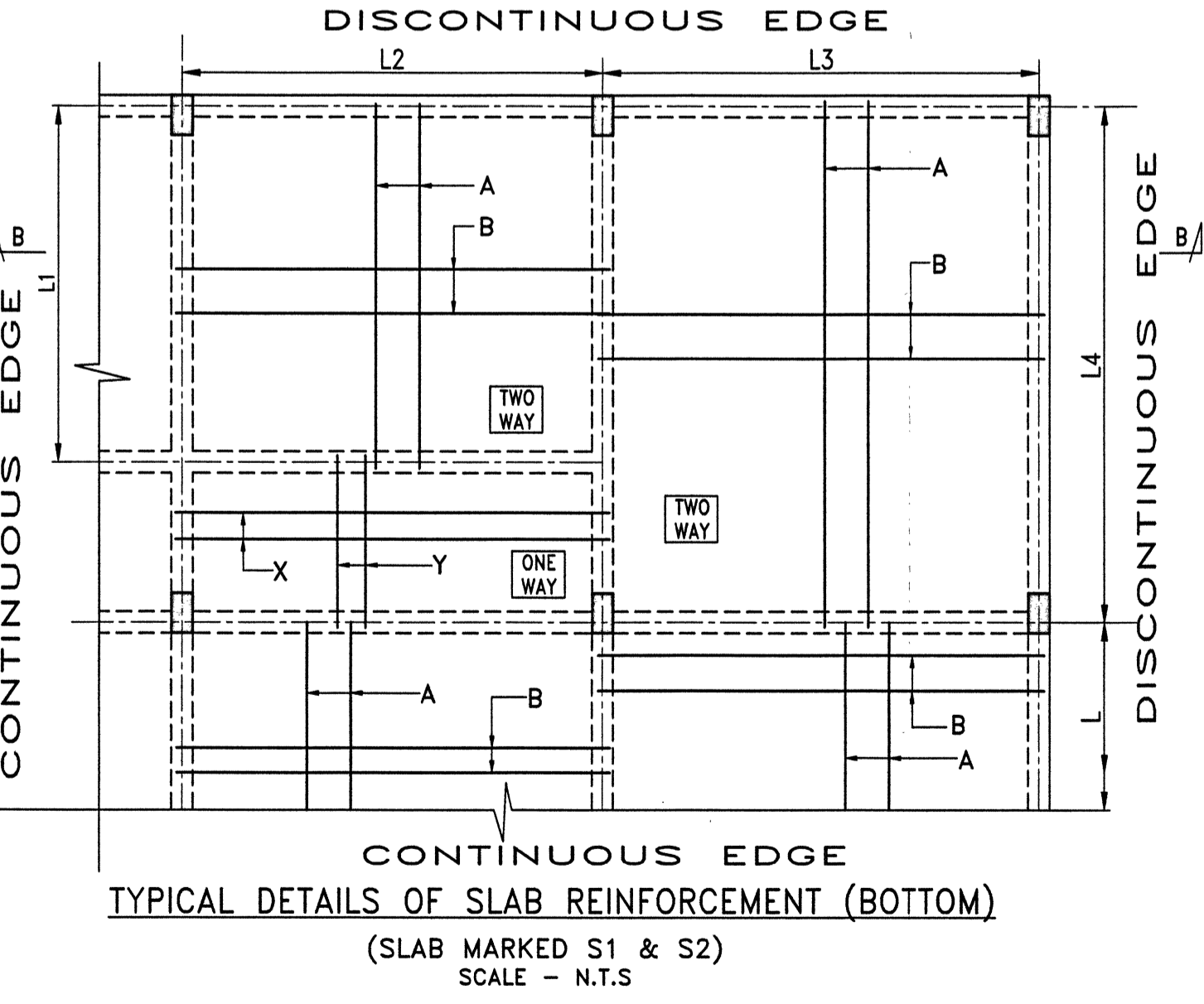
TYPICAL DETAILS OF SLAB REINFORCEMENT (TOP)
(SLAB MARKED S1 & S2)
SCALE-N.T.S

SCHEDULE OF S1 & S2 MARKED SLABS (TYPICAL FLOOR TO ROOF SLABS THICKNESS-115mm & 125mm)		
BAR MKD.	REINFORCEMENT	POSITION
A	8# @ 150 mm C/C (ALL THROUGH)	BOT.
B	8# @ 150 mm C/C (ALL THROUGH)	BOT.
X	8# @ 150 mm C/C (ALL THROUGH)	BOT.
Y	8# @ 150 mm C/C (ALL THROUGH)	BOT.
D(BINDER)	8# @ 200 mm C/C (WHEREVER REQUIRED)	TOP

SCHEDULE OF S4 MARKED SLABS (WATER TANK & L.M.R FLOOR SLAB THICKNESS-150mm.)	
BAR MKD.	REINFORCEMENT
E	10T @ 200 mm C/C (ALL THROUGH)
F	10T @ 200 mm C/C (ALL THROUGH)

SCHEDULE OF S3 MARKED SLABS (MUMTY & L.M.R ROOF SLAB THICKNESS-115mm.)	
BAR MKD.	REINFORCEMENT
E	8T @ 150 mm C/C (ALL THROUGH)
F	8T @ 150 mm C/C (ALL THROUGH)

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.



TYPICAL DETAILS OF SLAB REINFORCEMENT (BOTTOM)
(SLAB MARKED S1 & S2)
SCALE - N.T.S

- 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 TWT 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 = 50xBAR DIA.
 - CONCRETE CLEAR COVER 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 OF 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.
 - ALL CANTILEVER SLAB WITHOUT PERIPHERAL BEAMS THE TOP REINFORCEMENT PARALLEL TO THE CANTILEVER SPAN SHOULD BE CONTINUED UP TO ATLEAST 1.5 TIMES THE CANTILEVER SPAN WITHIN THE ADJACENT SLAB.

TITLE:-
STRUCTURAL DRAWING OF PROPOSED G+3 STORIED APARTMENT (RESIDENTIAL) BUILDING OF SRI. RAJESH BANERJEE OVER L.R. PLOT NO. - 1349(P) & 1322(P), R.S. PLOT NO- 731(P), KHATIAN NO.- 5935, MOUZA- KURURIA, J.L. NO- 56, P.S. - DURGAPUR, DIST- PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT/ENGINEER

SIGNATURE OF GEO-TECHNICAL ENGINEER

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

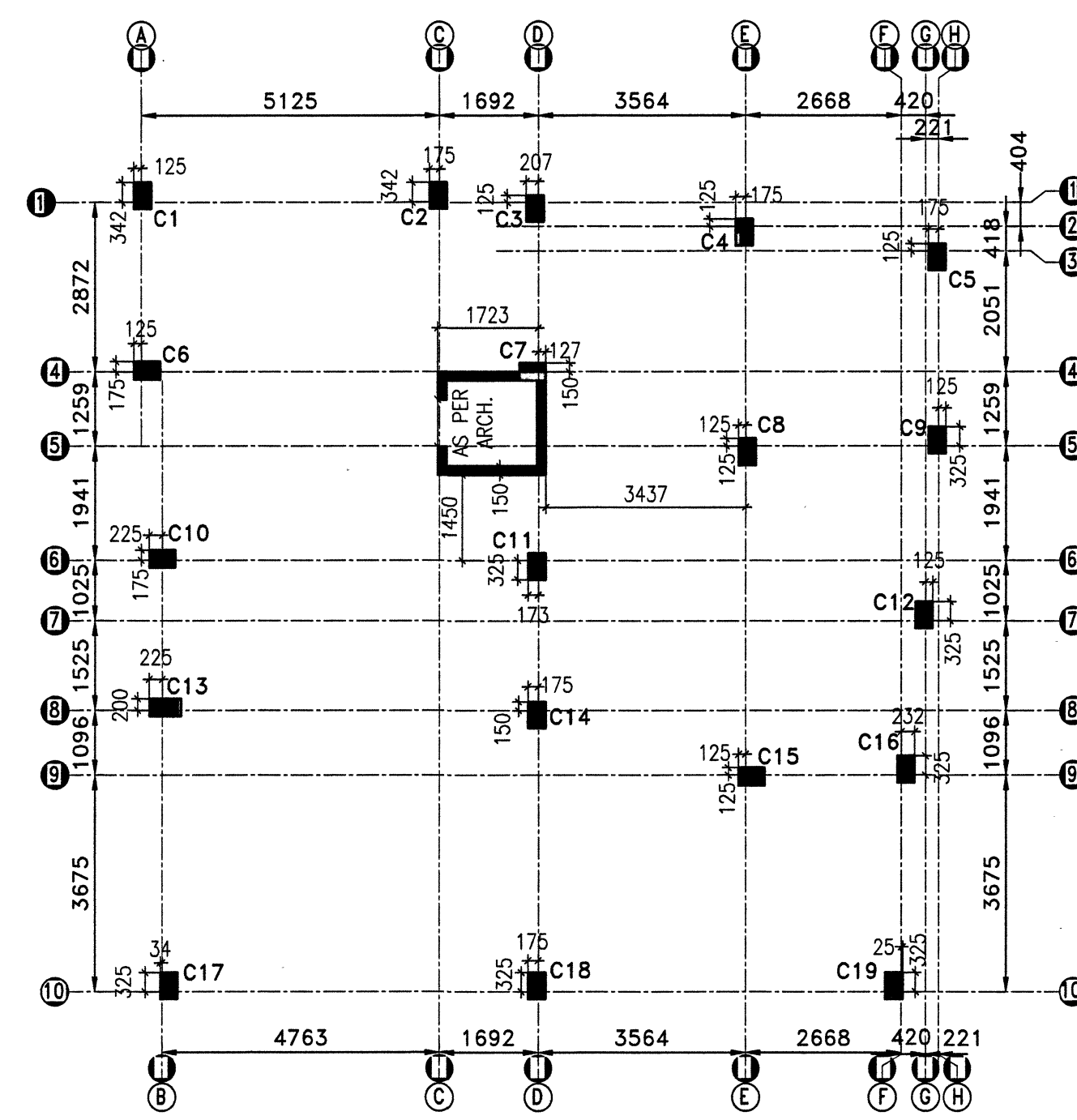
SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

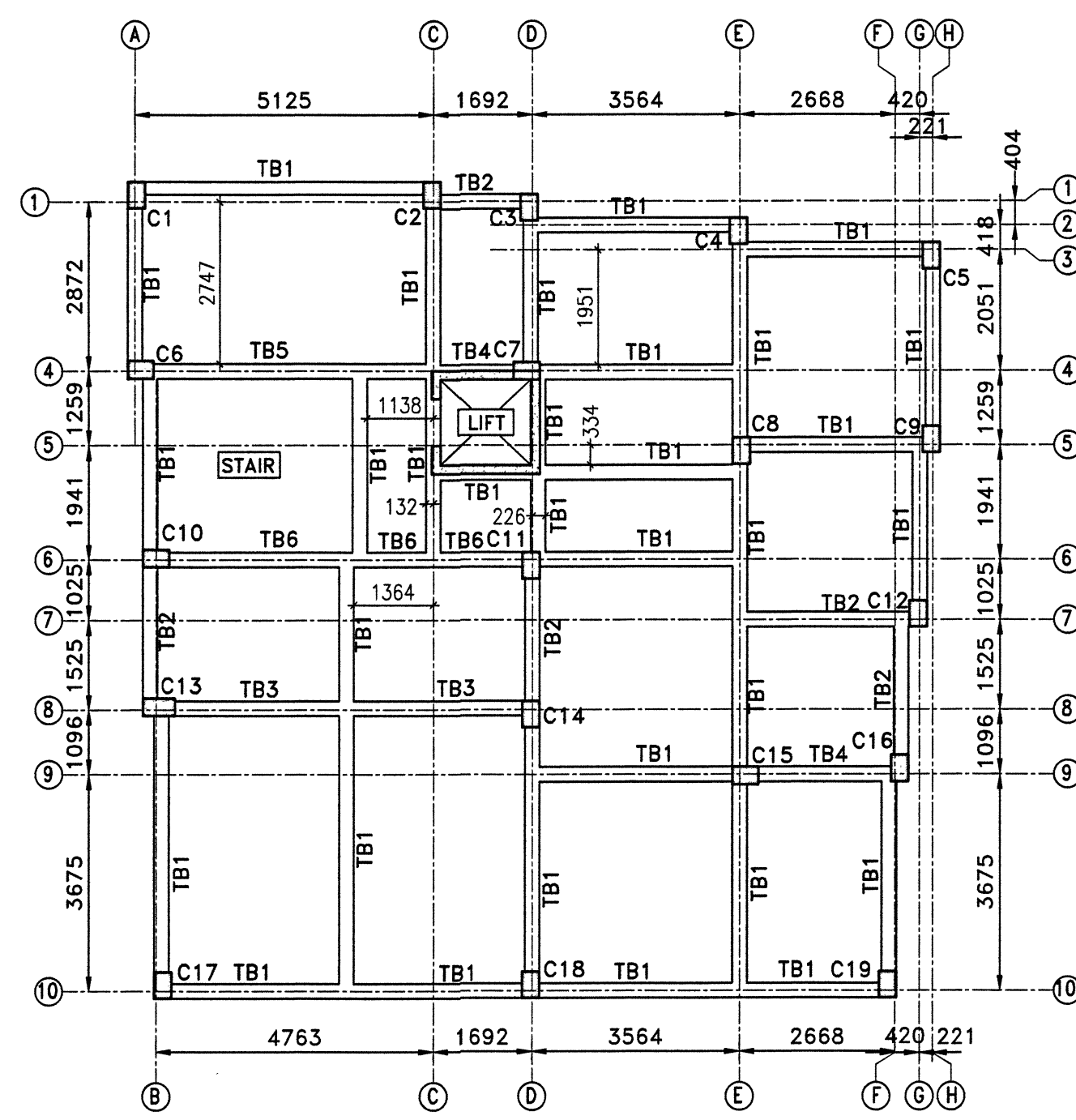
STRUCTURAL CONSULTANT
STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR
96B, KALIKAPUR ROAD, KOLKATA- 700 099
Email-structconenterprise@gmail.com
Ph.-8100483509

DRAWING TITLE
ROOF, ABOVE ROOF BEAM & SLAB LAYOUT PLAN, DETAILS OF SLAB.
SCALE-1:100 OR AS SHOWN
DATE-25.06.2024
SHEET NO.- 3 OF 3

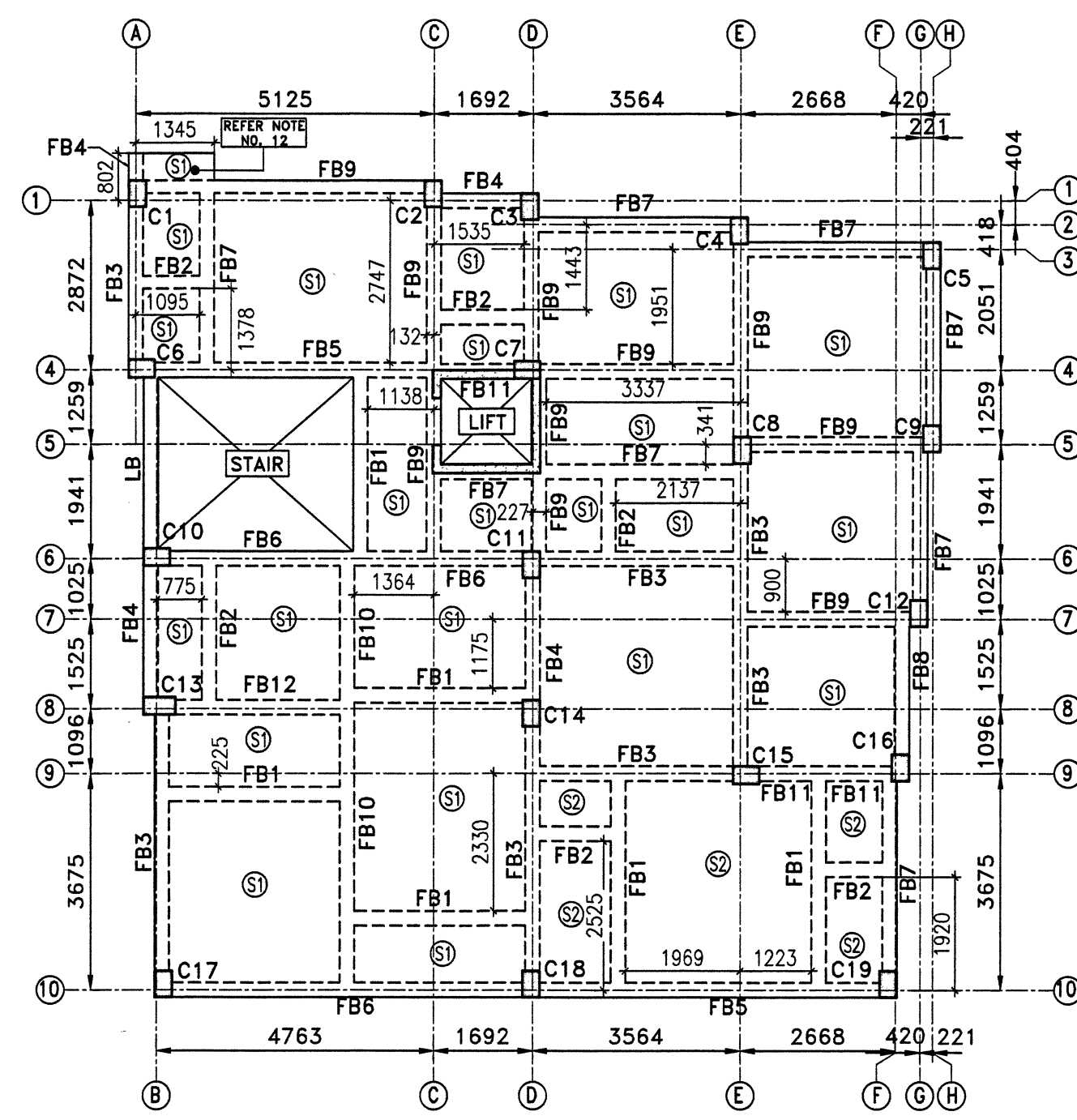




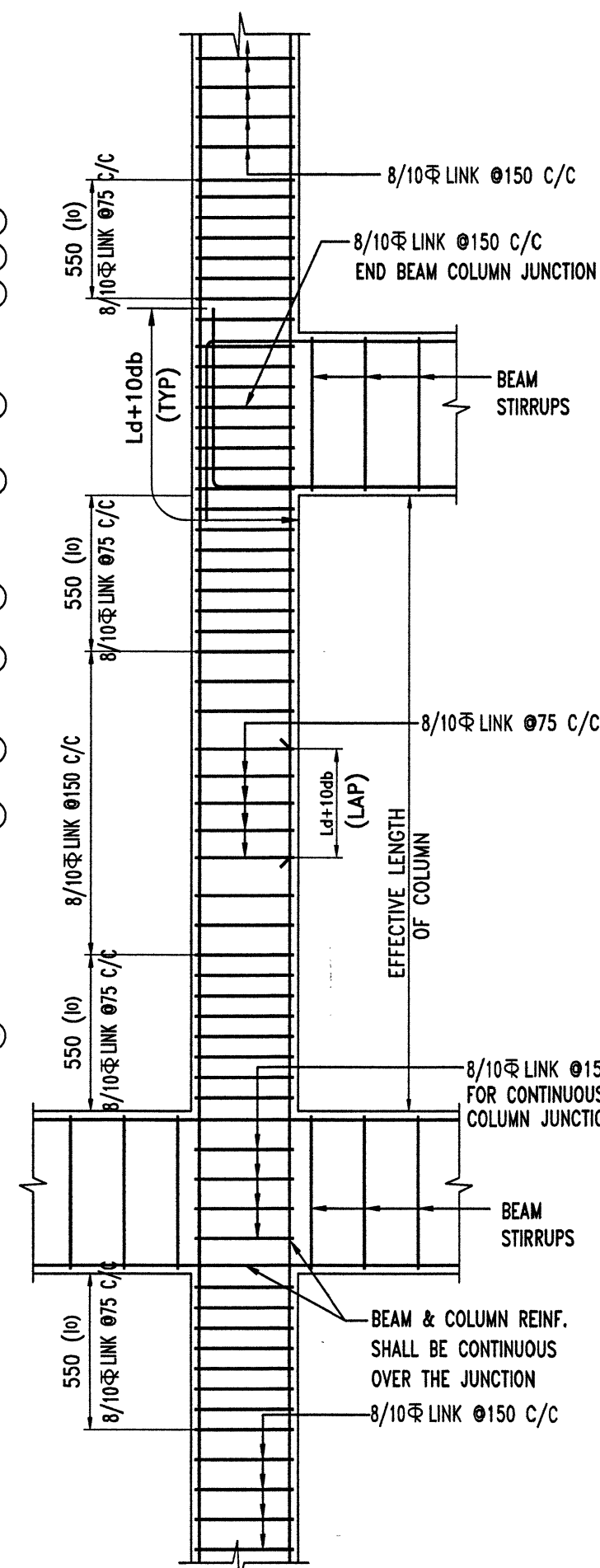
COLUMN LAYOUT PLAN
SCALE 1:100



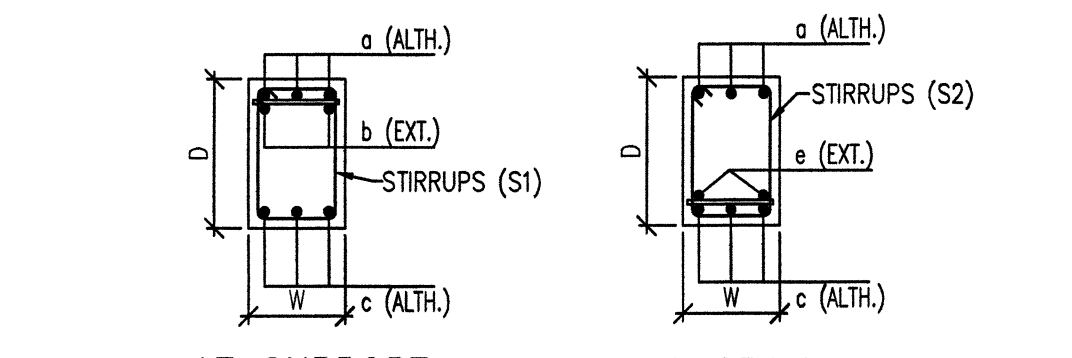
TIE BEAM LAYOUT PLAN AT LEVEL (±)0.000m.
SCALE-1:100



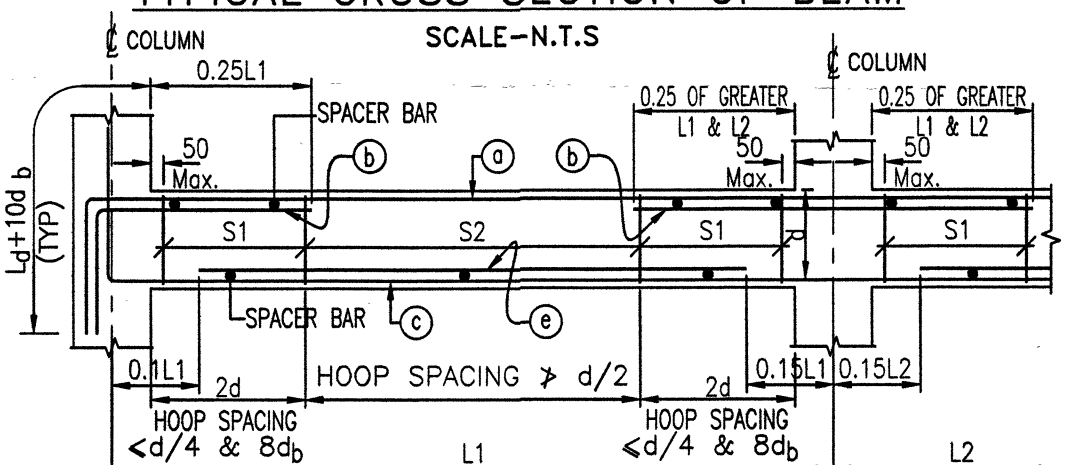
TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVELS (+)3.200m, (+)6.250m, (+)9.300m.
S1 MARKED SLABS ARE 115mm THICK. S2 MARKED SLABS ARE 125mm THICK. LB REFERS TO LANDING BEAM.
SCALE-1:100



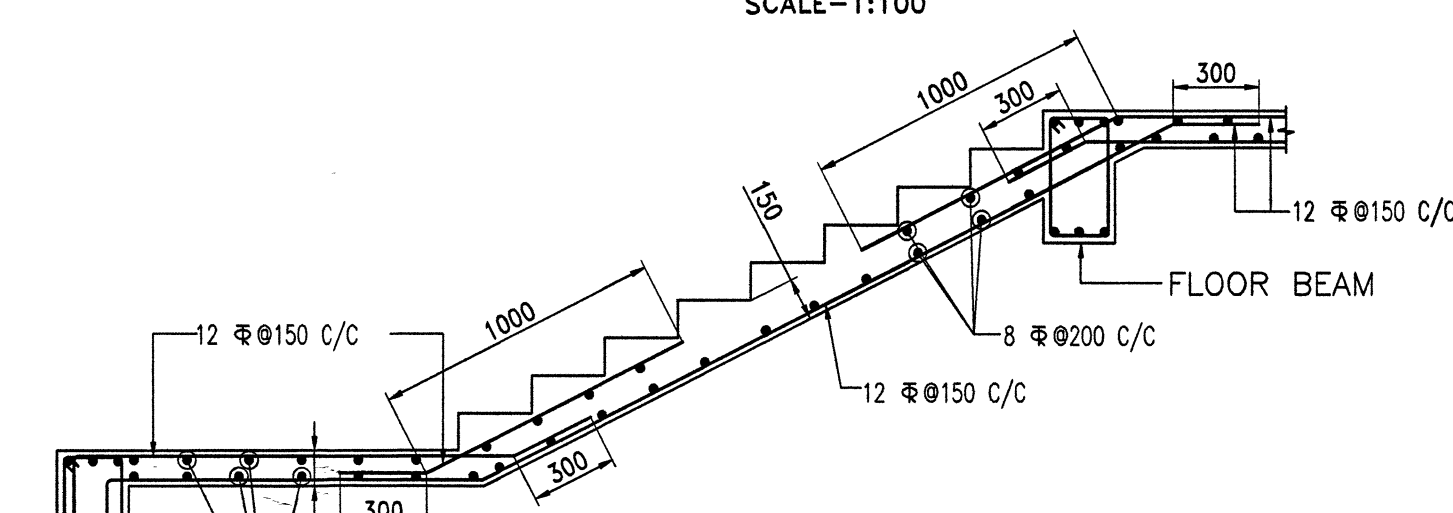
TYPICAL DUCTILE DETAIL OF BEAM COLUMN JUNCTION
L_d = DEVELOPMENT LENGTH IN TENSION
d = DIAMETER OF LONGITUDINAL BAR
SCALE-N.T.S.



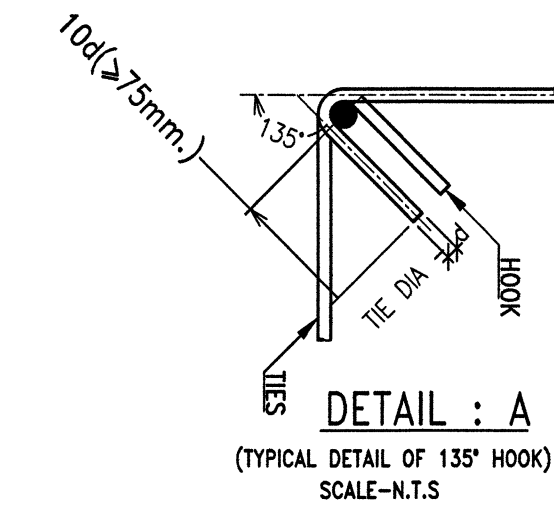
TYPICAL CROSS SECTION OF BEAM
SCALE-N.T.S.



TYPICAL ARRANGEMENT OF REINFORCEMENT IN BEAM
SCALE-N.T.S.



TYPICAL SECTIONAL DETAILS OF 150mm THK. STAIR WAIST SLAB
SCALE-N.T.S.



DETAIL : A
(TYPICAL DETAIL OF 135° HOOK)
SCALE-N.T.S.

SCHEDULE OF COLUMNS				
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO ROOF / ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
C13	01	300X550		NEAR JUNCTION (10) REST PORTION
C2,C17,C18	03	300X450		NEAR JUNCTION (10) REST PORTION
C1,C3,C4,C5,C6,C7,C8,C9,C10,C12,C14,C15,C16,C19	14	300X450		NEAR JUNCTION (10) REST PORTION
C11	01	300X450		NEAR JUNCTION (10) REST PORTION

SCHEDULE OF STOOL COLUMNS				
COLUMN MARKED	NOS. OF COLUMNS	COLUMN SIZE (mm x mm)	ROOF TO ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING
ST1,ST5 (ROOF TO L.M.R. ROOF) ST4,ST6 (ROOF TO WATER TANK)	04	250x250		8 Ø150 C/C (2 NOS. CLOSED LINK)
ST2 (ROOF TO L.M.R. ROOF)	01	250x300		8 Ø150 C/C (2 NOS. CLOSED LINK)
ST3 (ROOF TO L.M.R. ROOF)	01	250x350		8 Ø150 C/C (2 NOS. CLOSED LINK)

SCHEDULE OF TYPICAL FLOOR BEAMS						
BEAM MARKED	BEAM SIZE (W x D) (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SPAN) (S2)
		ALTHROUGH (a)	EXTRA AT SUPPORT (b)	ALTHROUGH (c)	EXTRA AT SPAN (e)	
FB1	250 x 450	3-12	-	2-12 +1-16	-	2L-8 Ø100 C/C 2L-8 Ø200 C/C
FB2	250 x 450	3-12	-	2-12 +1-16	-	2L-8 Ø100 C/C 2L-8 Ø200 C/C
FB3	250 x 500	3-16	2-12	3-16	-	2L-8 Ø100 C/C 2L-8 Ø200 C/C
FB4	250 x 500	3-16	-	3-16	-	2L-8 Ø100 C/C 2L-8 Ø100 C/C
FB5	250 x 500	3-16	2-16	3-16	-	2L-8 Ø100 C/C 2L-8 Ø200 C/C
FB6	250 x 500	3-16	3-20	3-16	3-16	2L-8 Ø100 C/C 2L-8 Ø200 C/C
FB7	250 x 500	2-12 +1-16	-	2-12 +1-16	-	2L-8 Ø100 C/C 2L-8 Ø200 C/C
FB8	250 x 500	2-12 +1-16	-	2-12 +1-16	-	2L-8 Ø100 C/C 2L-8 Ø100 C/C
FB9	250 x 500	3-16	-	3-16	-	2L-8 Ø100 C/C 2L-8 Ø200 C/C
FB10	250 x 500	3-16	-	3-16	2-20	2L-8 Ø100 C/C 2L-8 Ø200 C/C
FB11	250 x 500	3-16	-	3-16	-	2L-8 Ø100 C/C 2L-8 Ø100 C/C
FB12	250 x 500	3-20	2-25	3-16 +3-16	-	2L-8 Ø100 C/C 2L-8 Ø200 C/C
LB	250 x 500	3-16	2-12	2-12 +1-16	2-16	2L-8 Ø100 C/C 2L-8 Ø200 C/C

SCHEDULE OF TIE BEAMS						
BEAM MARKED	BEAM SIZE (W x D) (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS (AT SUPPORT) (S1)
		ALTHROUGH (a)	EXTRA AT SUPPORT (b)	ALTHROUGH (c)	EXTRA AT SPAN (e)	
TB1	250 x 400	2-12 +1-16	-	2-12 +1-16	-	2L-8 Ø100 C/C 2L-8 Ø200 C/C
TB2	250 x 400	2-12 +1-16	-	2-12 +1-16	-	2L-8 Ø100 C/C 2L-8 Ø100 C/C
TB3	250 x 400	2-12 +1-16	2-12	2-12 +1-16	-	2L-8 Ø100 C/C 2L-8 Ø200 C/C
TB4	250 x 400	LAYER 1: 2-12 +1-16 LAYER 2: 2-12 +1-16	-	LAYER 1: 2-12 +1-16 LAYER 2: 2-12 +1-16	-	2L-8 Ø100 C/C 2L-8 Ø100 C/C
TB5	250 x 400	2-12	-	2-12	2-12	2L-8 Ø100 C/C 2L-8 Ø200 C/C
TB6	250 x 400	3-16	-	2-12 +1-16	2-12	2L-8 Ø100 C/C 2L-8 Ø200 C/C

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.

- 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 = 50xBAR DIA.
 - CONCRETE CLEAR COVER 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 OF 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.
 - 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+3 STORIED APARTMENT (RESIDENTIAL) BUILDING OF SRI. RAJESH BANERJEE OVER L.R. PLOT NO. - 1349(P) & 1322(P), R.S. PLOT NO- 731(P), KHATAN NO.- 5935, MOUZA- KURURIA, J.L. NO- 56, P.S. - DURGAPUR, DIST- PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT/ENGINEER

AR. VIJAYA SINGH MAZUMDER
CONSULTING ARCHITECT
COA REGISTERED
CA/2021/134276
SIGNATURE OF GEO-TECHNICAL ENGINEER

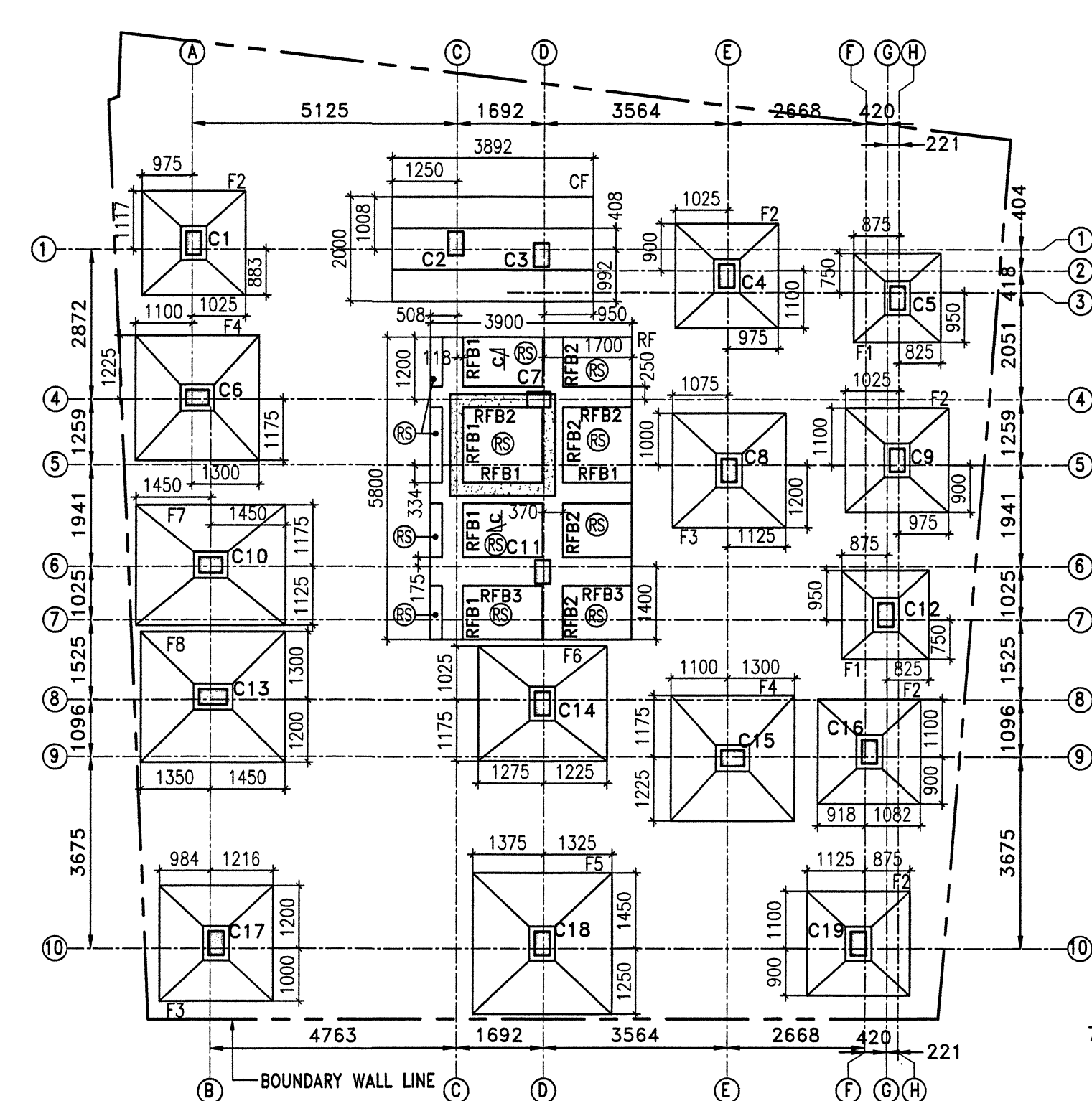
SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT

 STRUCTCON ENTERPRISE
 REGD. ADDRESS: ASHRAY APARTMENT, GROUND FLOOR, 95B, KALIKAPUR ROAD, KOLKATA - 700 099
 Email-structconenterprise@gmail.com
 Ph.-8100483509

DRAWING TITLE
 COLUMN, TIE BEAM & TYPICAL FLOOR BEAM & REINF.DETAILS, DETAILS OF STAIR.
 SCALE.-1:100 OR AS SHOWN
 DATE.-25.06.2024
 SHEET NO.- 2 OF 3 SHEET SIZE- A1



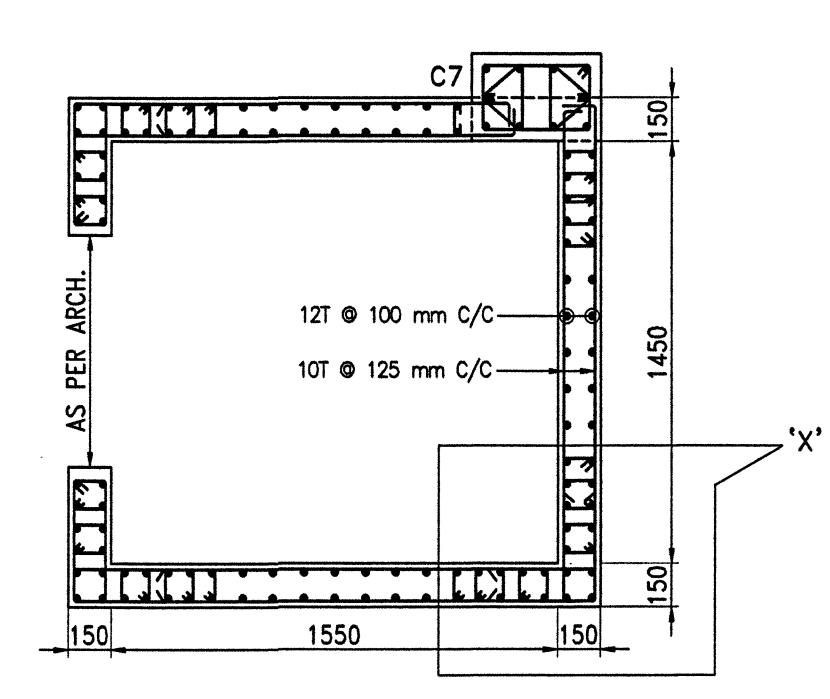
FOUNDATION LAYOUT PLAN
RS MARKED SLABS ARE 300mm THICK.
RS REFERS TO RAFT SLAB.
SCALE-1:100

SCHEDULE OF RAFT BEAMS								
BEAM MARKED	BEAM SIZE	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS		
		WIDTH (mm)	DEPTH (mm)	ALTHROUGH	EXTRA AT SPAN		ALTHROUGH	EXTRA AT SUPPORT
RFB1	400	400	400	4-16	-	4-16	-	4L-8 #200 C/C
RFB2	400	400	400	4-16	-	4-16	2-16	4L-8 #200 C/C
RFB3	550	400	400	5-16	-	3-16	3-16	4L-8 #200 C/C

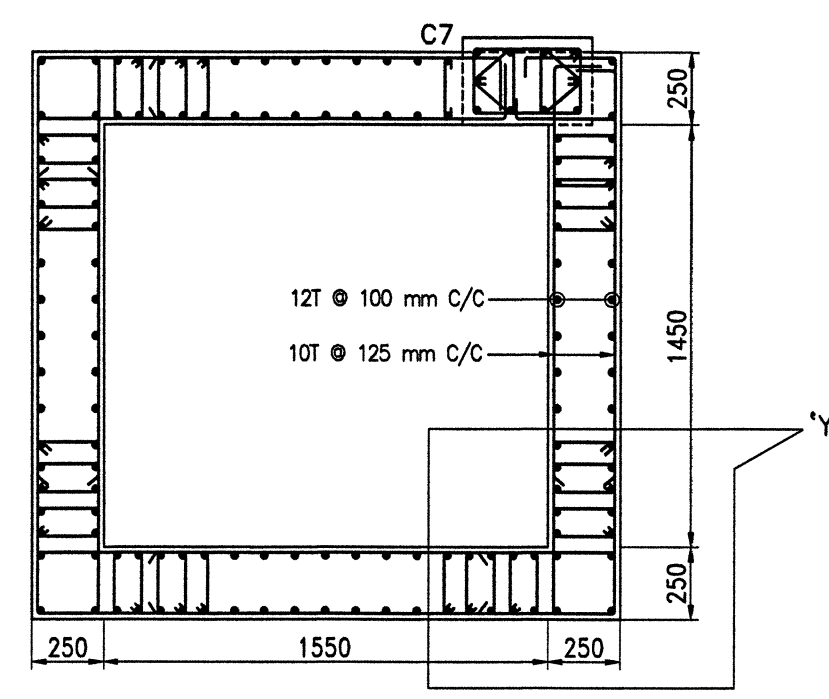
SCHEDULE OF RAFT SLAB					
SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS	300	16 #200 C/C	16 #200 C/C	16 #200 C/C	16 #200 C/C

SCHEDULE FOR ISOLATED FOUNDATION											
UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE			FOUNDATION REINFORCEMENT DETAILS					
			WIDTH (m)	LENGTH (m)	THICKNESS (mm)	DEPTH (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		
C5,C12	F1	02	1.70	1.70	400	250	1200	12 #175 C/C	12 #175 C/C	8 #300 C/C	8 #300 C/C
C1,C4,C9,C16,C19	F2	05	2.0	2.0	450	300	1200	12 #175 C/C	12 #175 C/C	8 #300 C/C	8 #300 C/C
C8,C17	F3	02	2.20	2.20	450	300	1200	12 #175 C/C	12 #175 C/C	8 #300 C/C	8 #300 C/C
C6,C15	F4	02	2.40	2.40	500	350	1200	12 #150 C/C	12 #150 C/C	8 #300 C/C	8 #300 C/C
C18	F5	01	2.70	2.70	500	350	1200	12 #125 C/C	12 #125 C/C	8 #300 C/C	8 #300 C/C
C14	F6	01	2.20	2.50	500	350	1200	12 #175 C/C	12 #150 C/C	8 #300 C/C	8 #300 C/C
C10	F7	01	2.30	2.90	500	400	1200	12 #150 C/C	12 #100 C/C	8 #300 C/C	8 #300 C/C
C13	F8	01	2.50	2.80	500	400	1200	12 #150 C/C	12 #125 C/C	8 #300 C/C	8 #300 C/C

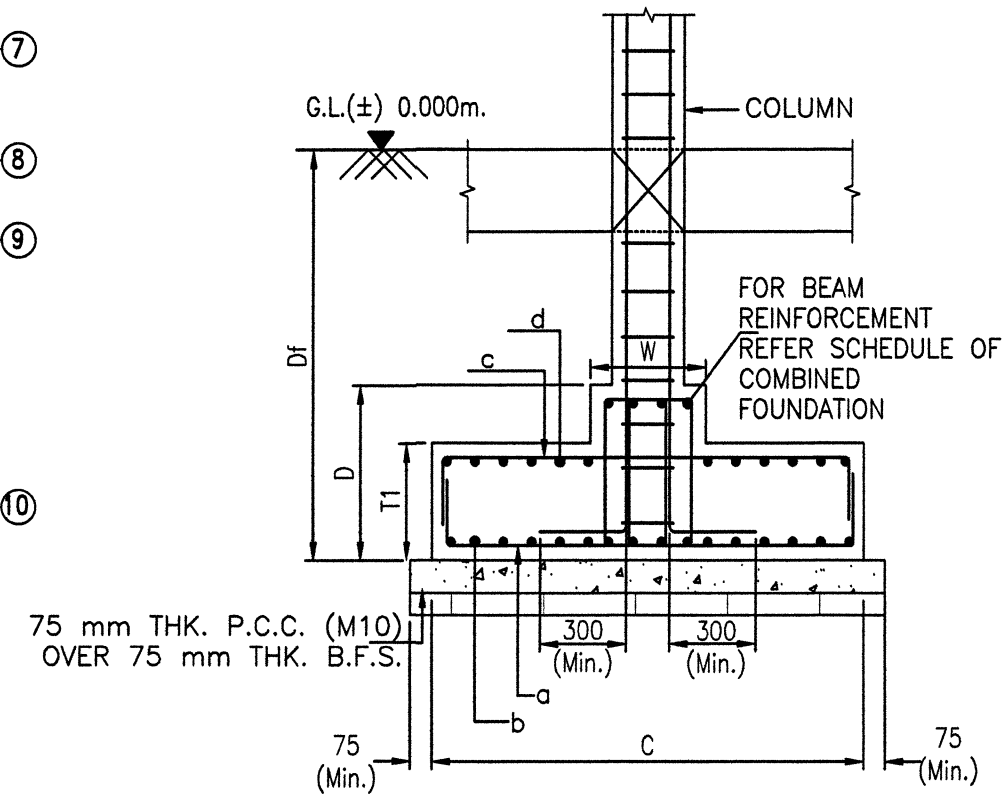
SCHEDULE FOR COMBINED FOUNDATION																
FOUNDATION MARKED	NUMBER	FOUNDATION SIZE			FOUNDATION REINFORCEMENT DETAILS				FOUNDATION BEAM SIZE			FOUNDATION BEAM REINFORCEMENT DETAIL				
		TOTAL LENGTH L (mm)	WIDTH C (mm)	THICKNESS T1 (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		LENGTH L (mm)	WIDTH W (mm)	DEPTH D (mm)	BOTTOM REINFORCEMENT	TOP REINFORCEMENT	STIRRUPS SPACING (mm)	
CF	01	3892	2000	300	1200	10 #200 C/C	12 #200 C/C	8 #200 C/C	8 #200 C/C	3892	800	400	6-16 #2-20 #	2-12 #	8-12 #	4L-8 #150 C/C



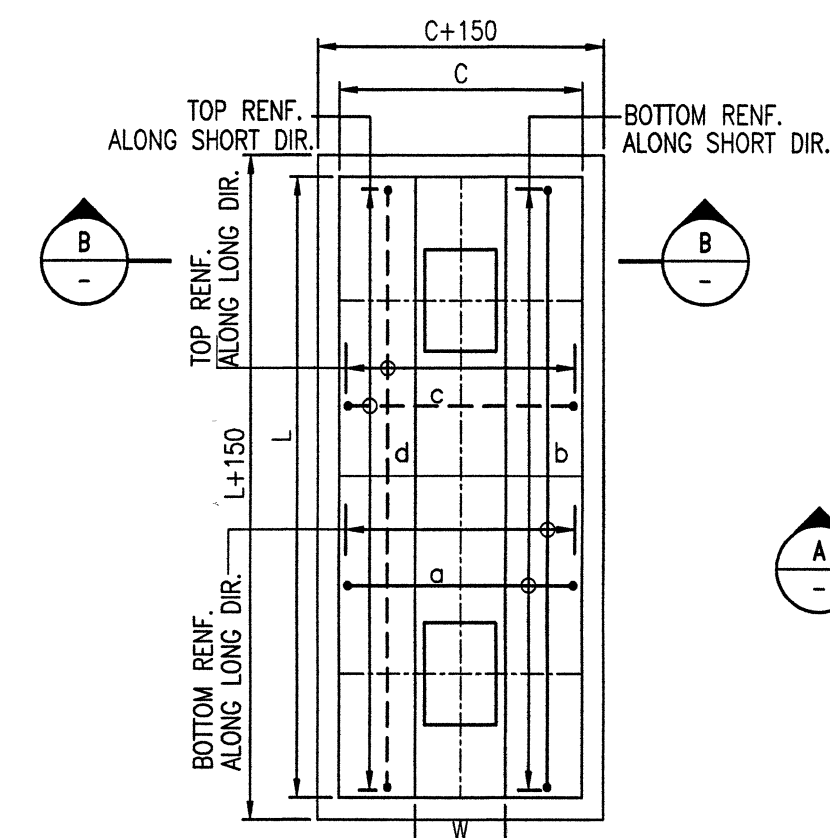
LIFT WALL PLAN AT FLOOR LEVEL SECTION (S-S)
SCALE 1:25



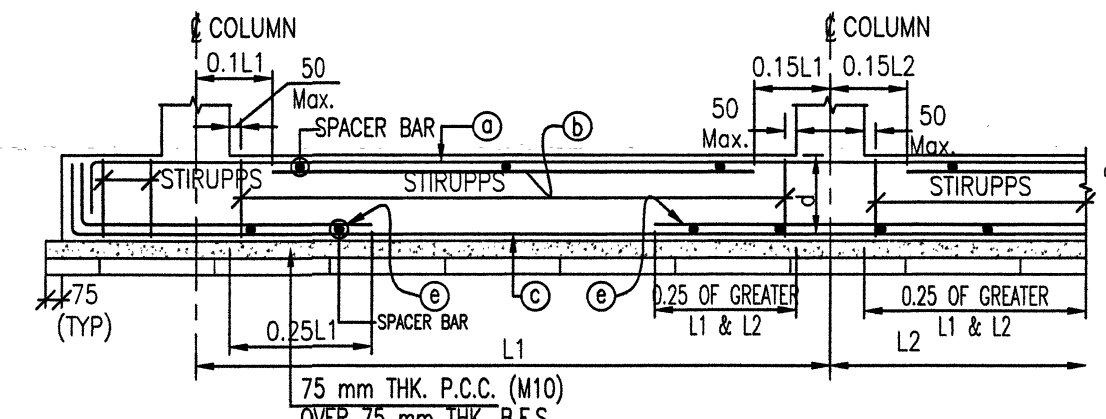
LIFT WALL PLAN AT BASE LEVEL SECTION (R-R)
SCALE 1:25



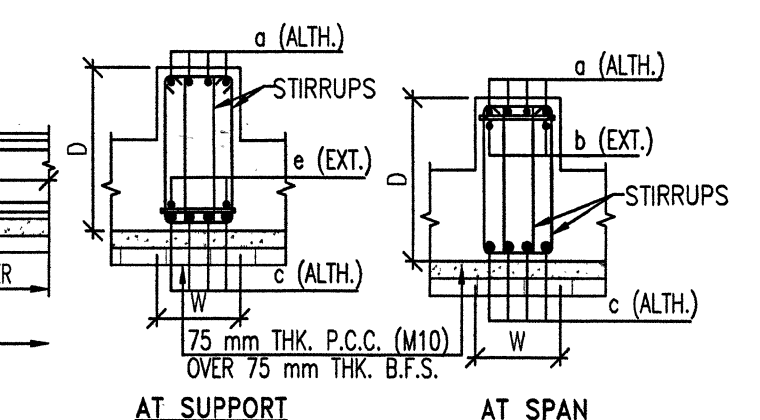
REINFORCEMENT DETAIL OF COMBINED FOUNDATION
SECTION B-B
SCALE N.T.S.



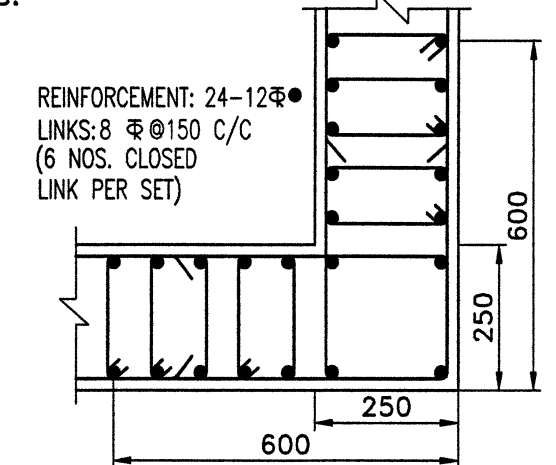
TYPICAL DETAIL OF COMBINED FOUNDATION
SCALE N.T.S.



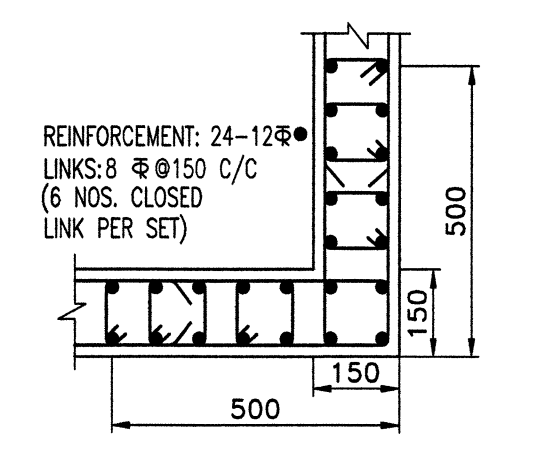
TYPICAL ARRANGEMENT OF REIN. IN FOUNDATION BEAM
(AS PER SP 34-1987)
SCALE - N.T.S.



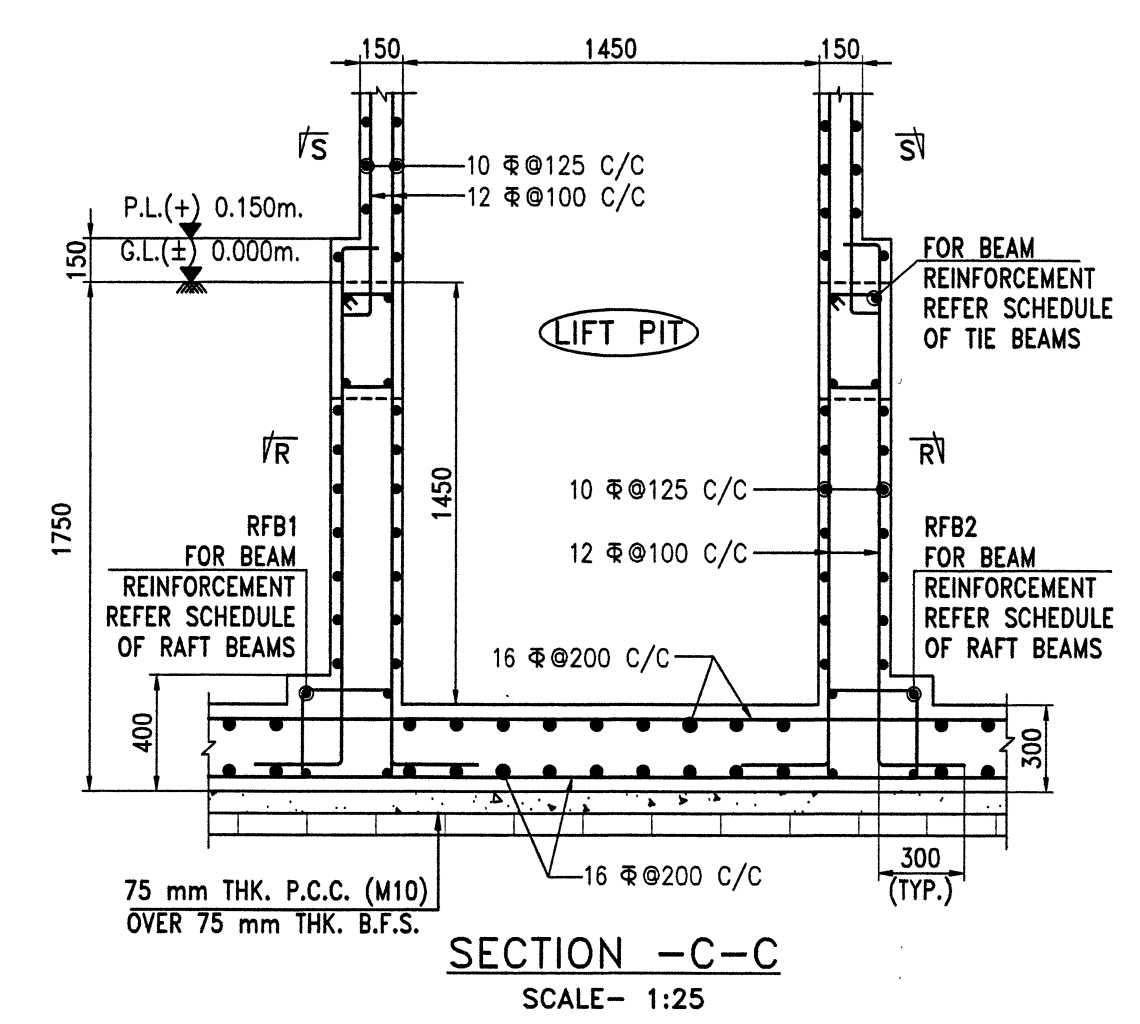
TYPICAL CROSS SECTION OF FOUNDATION BEAM
SCALE - N.T.S.



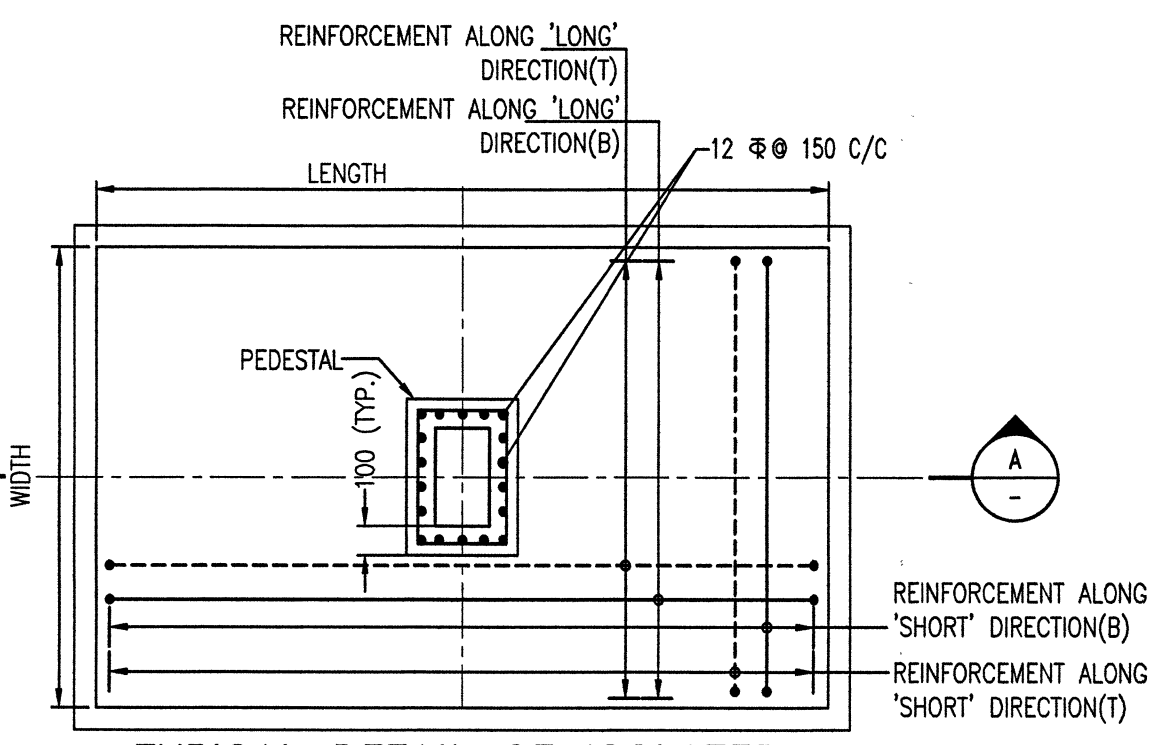
DETAIL - 'Y'
SCALE-N.T.S



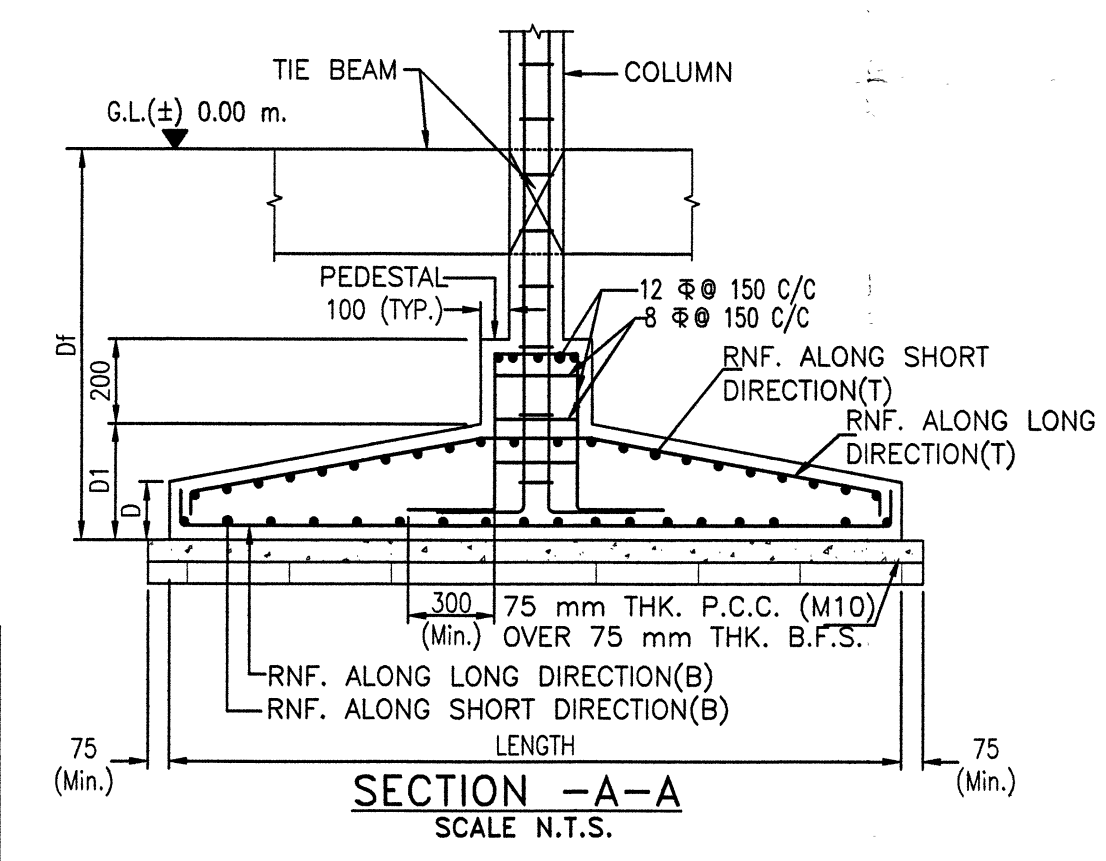
DETAIL - 'X'
SCALE-N.T.S



SECTION - C-C
SCALE- 1:25



TYPICAL DETAIL OF ISOLATED FOUNDATION
SCALE N.T.S.



SECTION - A-A
SCALE N.T.S.

NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION		
TYPE OF FOUNDATION	FOUNDATION MARK	NET SAFE BEARING CAPACITY (T/M ²)
ISOLATED	F1	13.0
	F2	12.90
	F3	12.75
	F4	12.60
	F5	12.50
	F6	12.35
	F7	12.30
	F8	12.25
RAFT	RF	10.0
COMBINED	CF	10.80

NOTE:-
THIS DESIGN WILL NOT BE VALID IF THIS BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER.

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.

- 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).
 - ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
 - 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-500/500 D CONFORMING TO IS-1786-2008.
 - ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
 - VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
 - UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 250 C/C.
 - CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
 - ISOLATED FOUNDATION : 50 mm
 - RAFT BEAM & SLAB : 50 mm
 - SHEAR WALL : 20 mm
 - COMBINE FOUNDATION : 50 mm
 - GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS: 456:2000.
 - DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP 34:1987
 - THE NET SAFE BEARING CAPACITIES FOR ISOLATE, COMBINE AND RAFT FOUNDATION AT DEPTH (-)1.20m. (UNLESS OTHERWISE MENTION) FROM G.L. HAVE BEEN CONSIDERED.
 - THE MENTIONED BEARING CAPACITIES MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
 - THE N VALUE AS DESCRIBED UNDER NOTES OF TABLE-1 OF IS-1893(PART-1)-2016 SHOULD BE ENSURED TO BE GREATER THAN 15 FOR VALIDITY OF THIS DESIGN AND DRAWING.

TITLE-
STRUCTURAL DRAWING OF PROPOSED G+3 STORIED APARTMENT (RESIDENTIAL) BUILDING OF SRI. RAJESH BANERJEE OVER L.R. PLOT NO. - 1349(P) & 1322(P), R.S. PLOT NO- 731(P), KHATIAN NO.- 5935, MOUZA- KURURIA, J.L. NO- 56, P.S. - DURGAPUR, DIST- PASCHIM BARDHAMAN.

SIGNATURE OF OWNER

SIGNATURE OF ARCHITECT/ENGINEER

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

SIGNATURE OF GEO-TECHNICAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

SIGNATURE OF STRUCTURAL ENGINEER

STRUCTURAL CONSULTANT

STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY
APARTMENT, GROUND FLOOR
968, KALIKAPUR ROAD,
KOLKATA- 700 099
Email-structconenterprise@
Ph.-8100483509

Drawing TITLE
FOUNDATION LAYOUT PLAN WITH REINF. DETAILS.
SCALE-1:100 OR AS SHOWN
DATE.-25.06.2024
SHEET NO.- 1 OF 3

