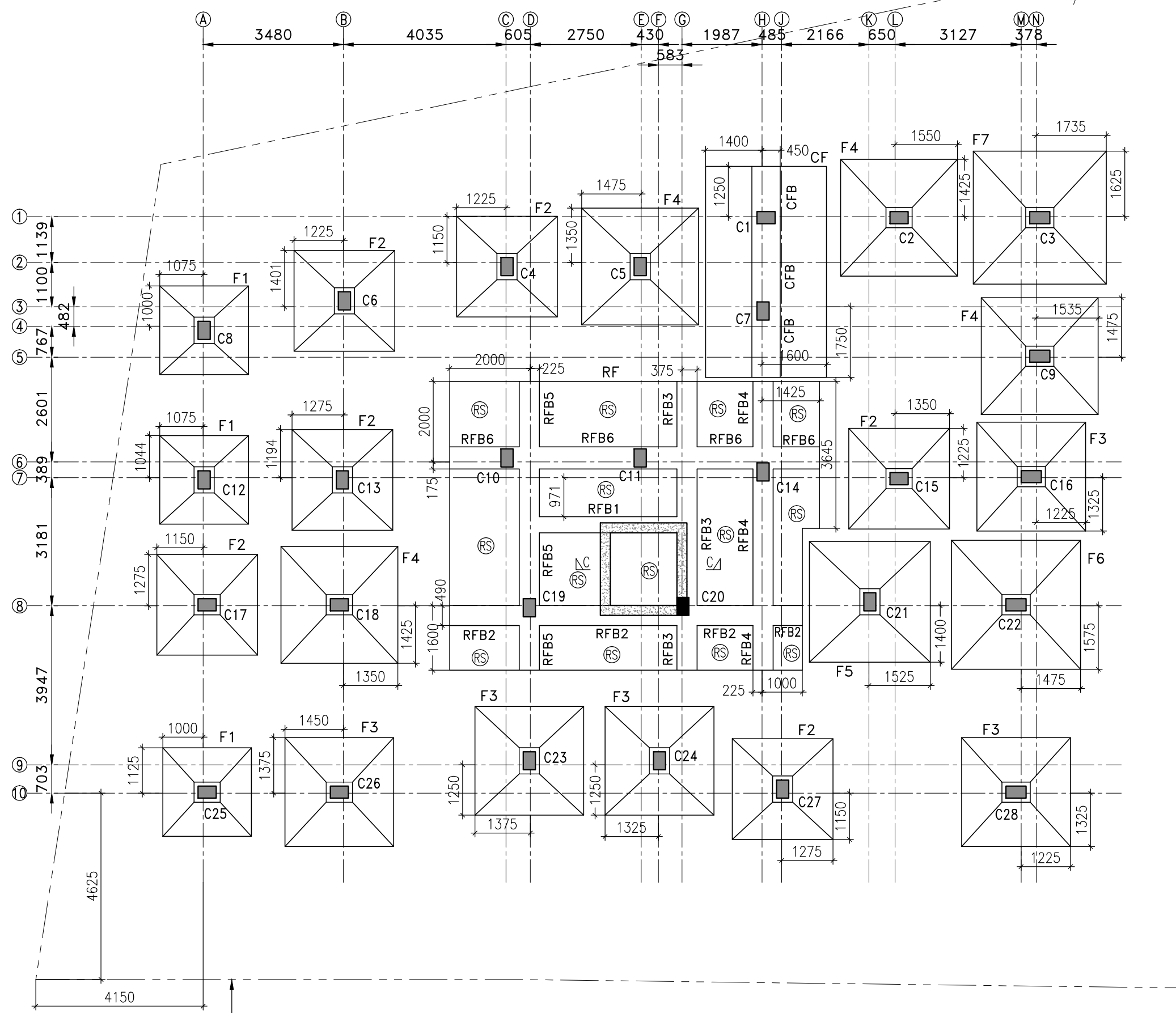
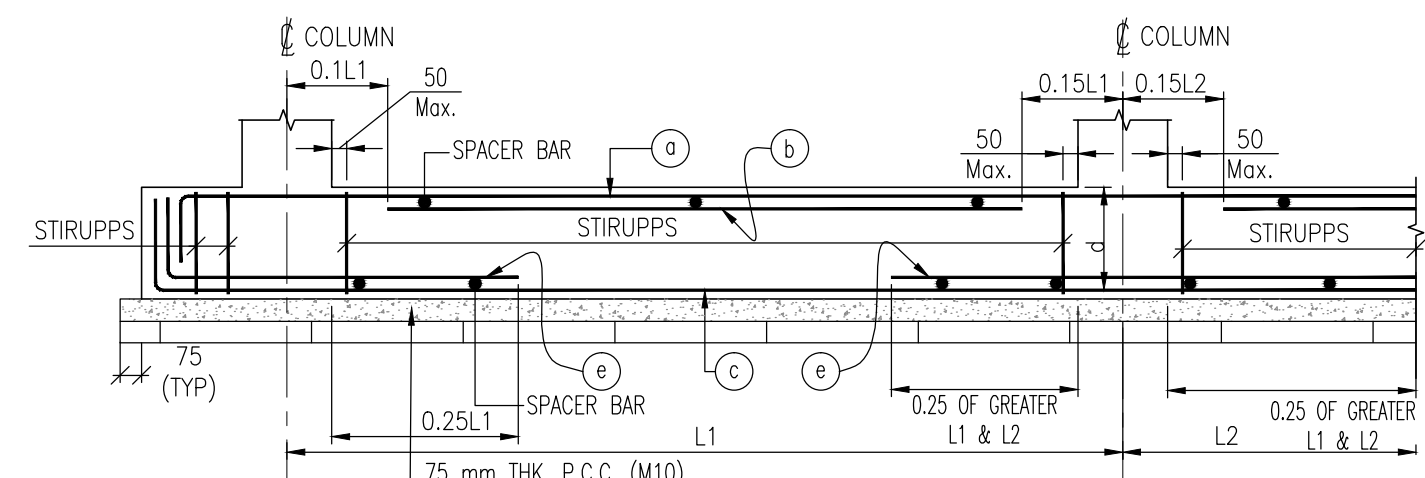
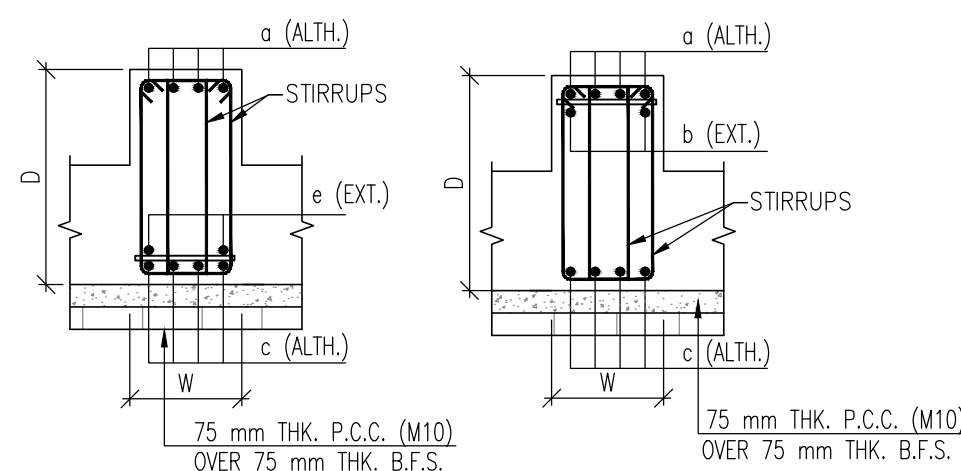




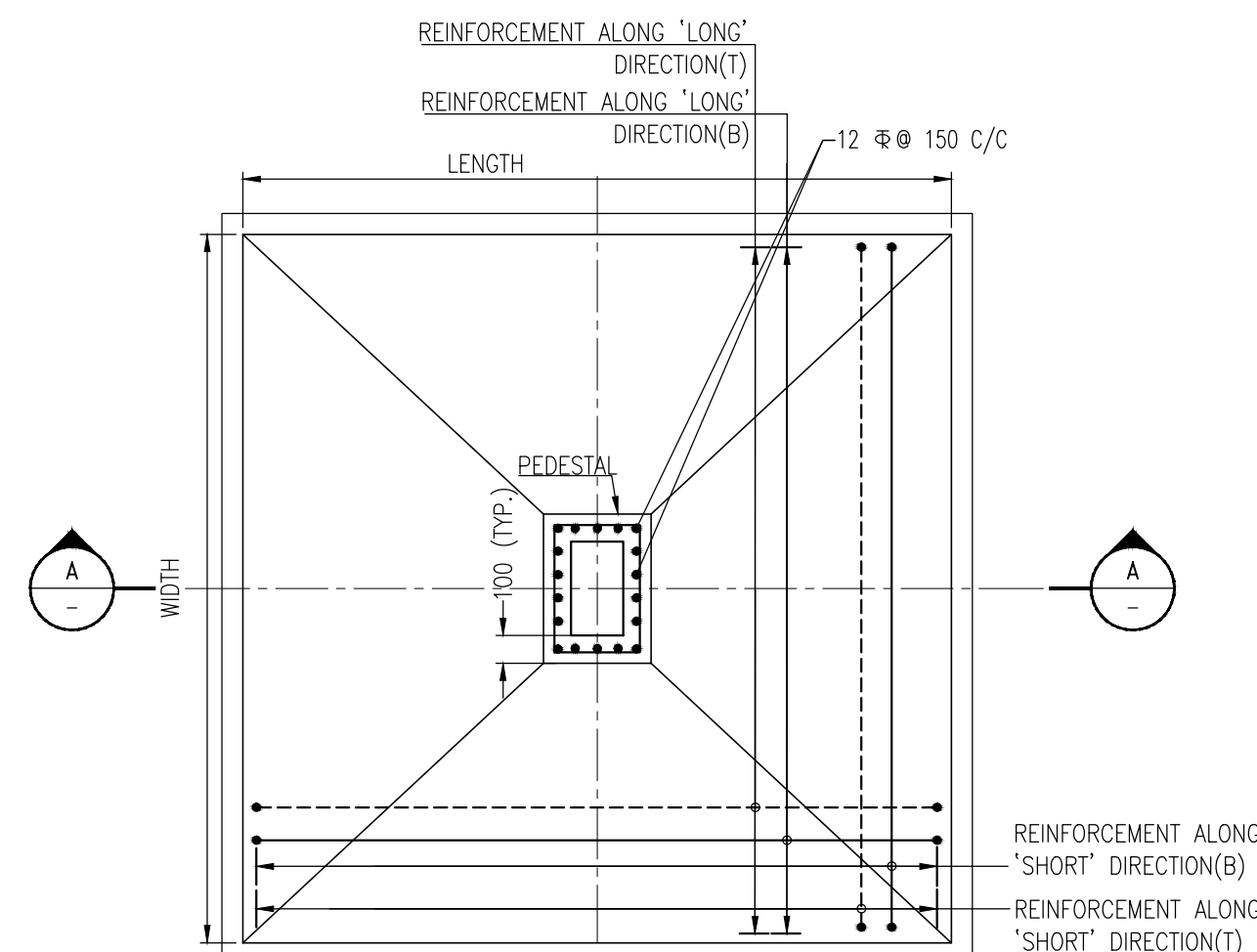
FOUNDATION LAYOUT PLAN
RS MARKED SLABS ARE 400mm. THICK.
RS REFERS TO RAFT SLABS.
SCALE 1:100



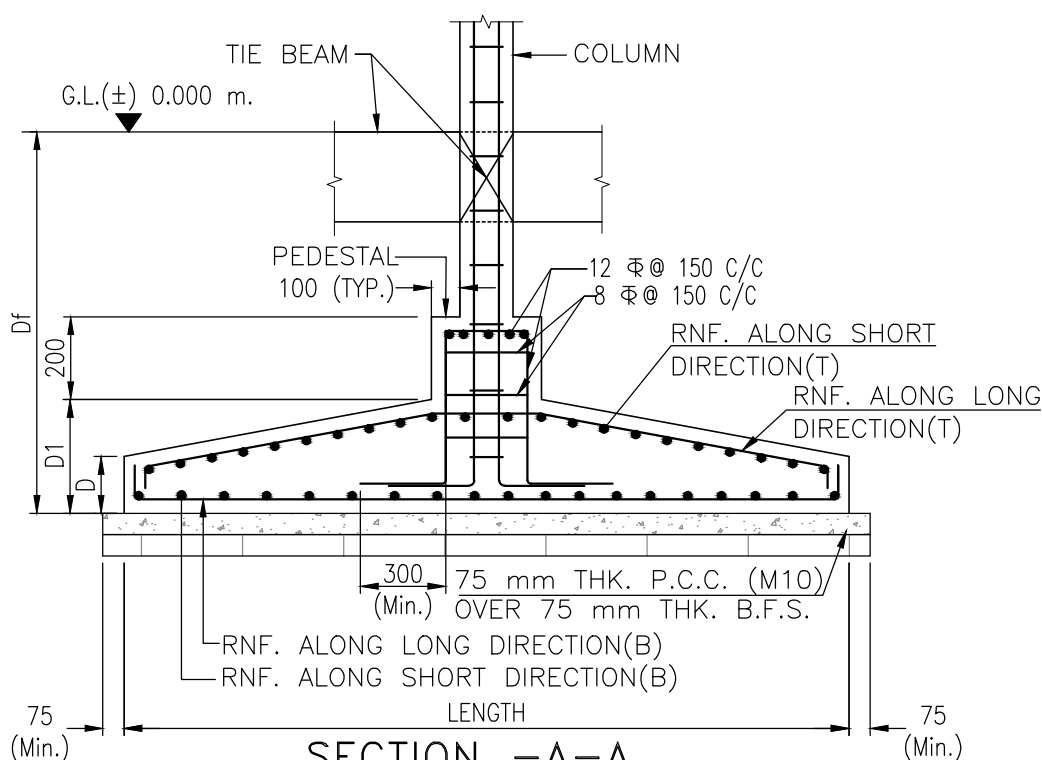
TYPICAL ARRANGEMENT OF REINFORCEMENT IN FOUNDATION BEAM
(AS PER SP 34-1987)
SCALE - N.T.S.



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

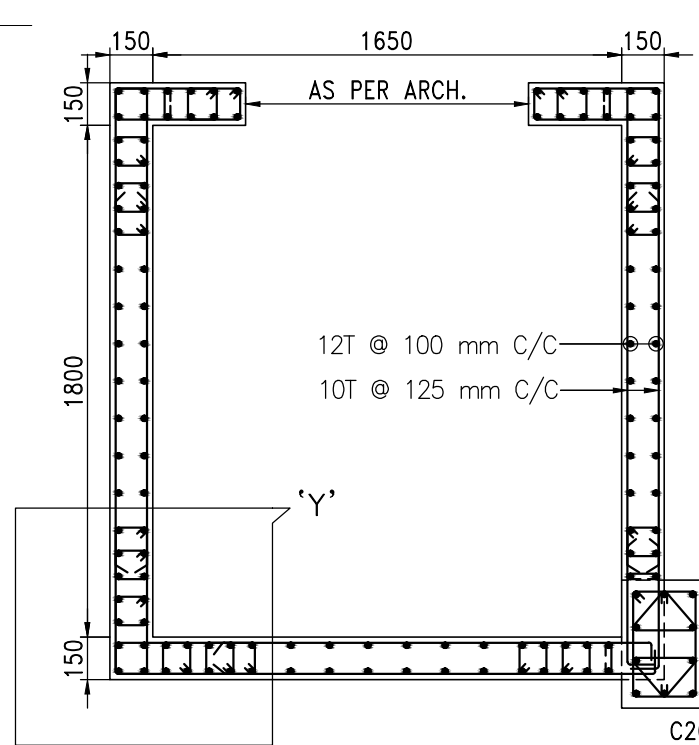


TYPICAL DETAIL OF ISOLATED FOUNDATION
SCALE N.T.S.

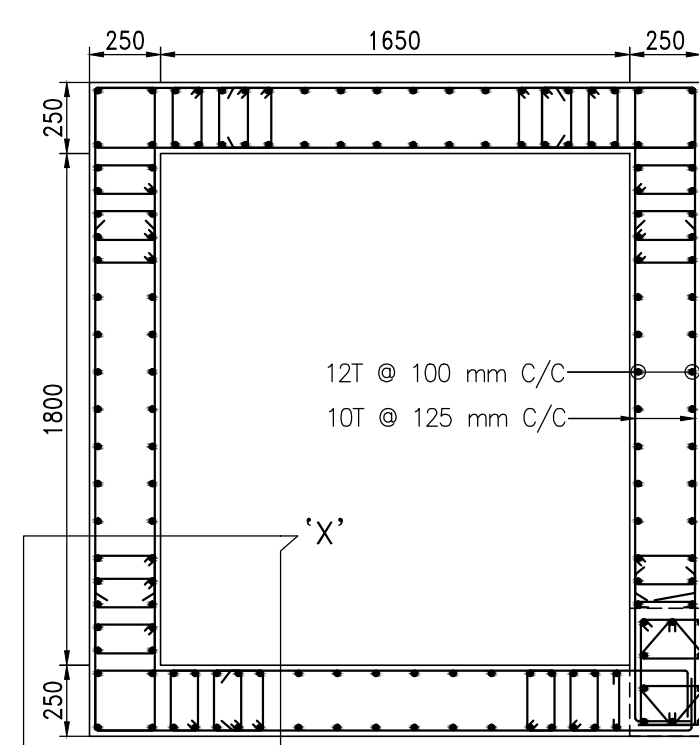


SECTION -A-A
SCALE N.T.S.

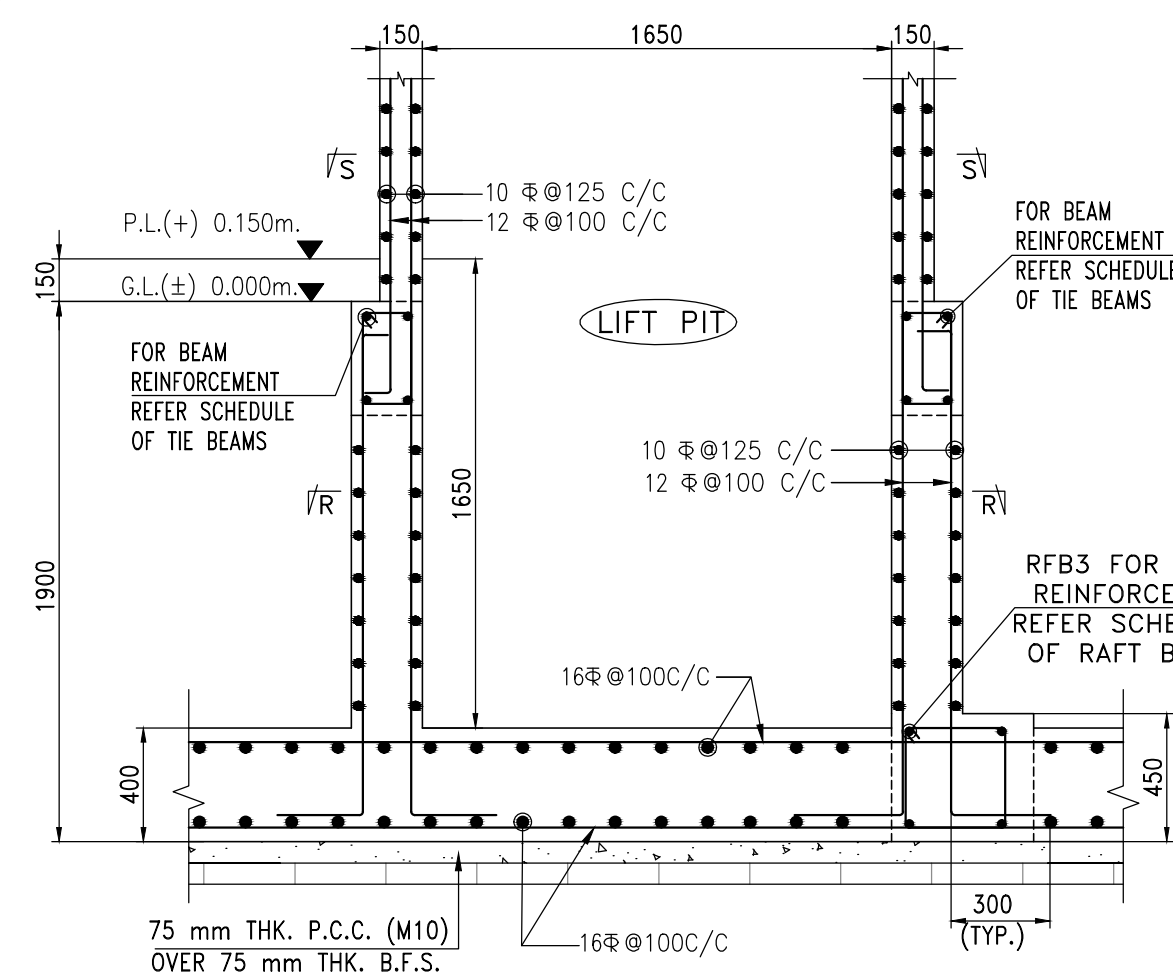
SPECIAL NOTE:-
THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.



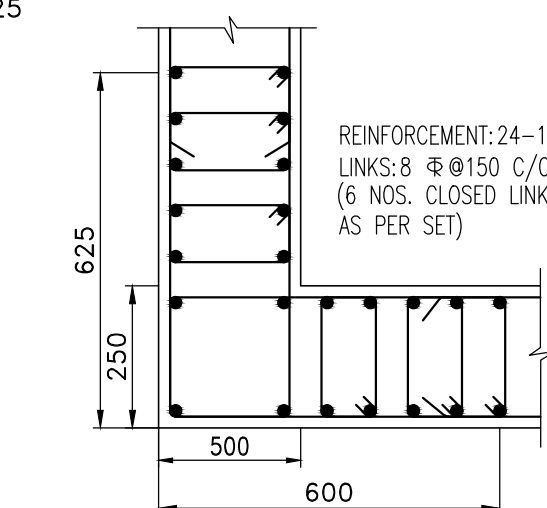
LIFT WALL PLAN AT FLOOR LEVEL SECTION (S-S)
SCALE 1:25



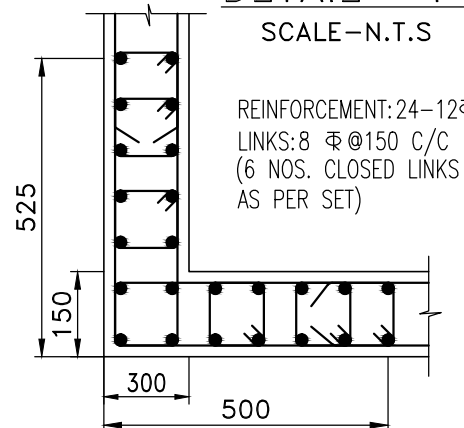
LIFT WALL PLAN AT BASE LEVEL SECTION (R-R)
SCALE 1:25



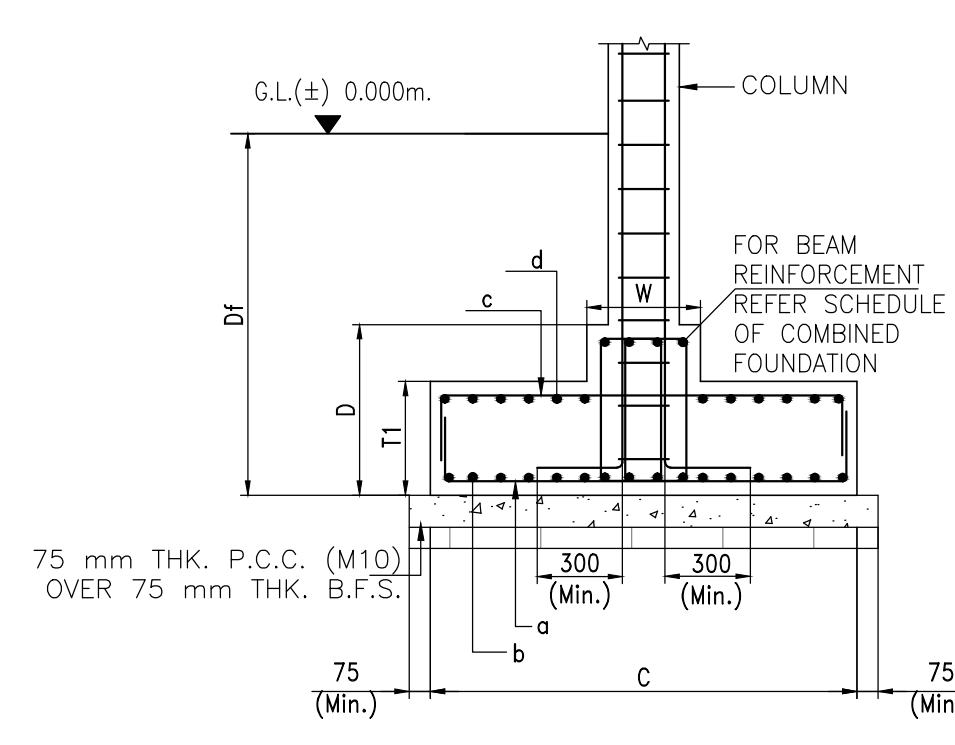
SECTION -C-C
SCALE- 1:25



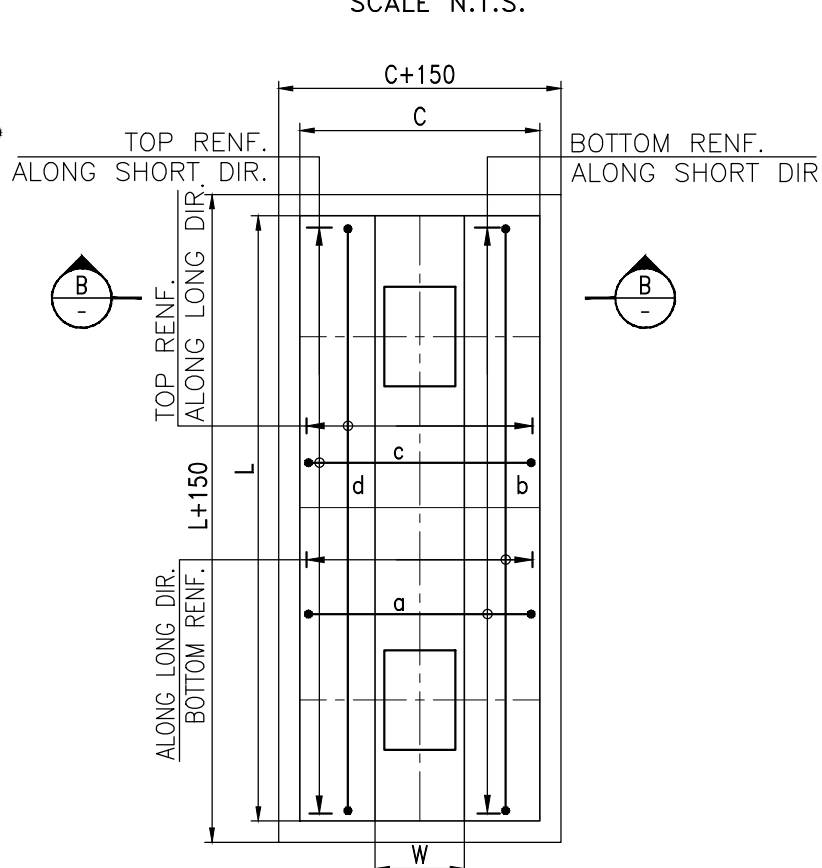
DETAIL-Y
SCALE-N.T.S



DETAIL-X
SCALE-N.T.S



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



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

SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG BOTH DIRECTION	
		BOTTOM	TOP
RS	400	16 Φ 100 C/C	16 Φ 100 C/C

BEAM MARKED	BEAM SIZE	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS
		ALTHROUGH	EXTRA AT SPAN	ALTHROUGH	EXTRA AT SUPPORT	
RFB1	400 x 450	4-16 Φ	-	4-16 Φ	-	4L-8 Φ 200 C/C
RFB2	500 x 450	5-16 Φ	-	5-16 Φ	5-16 Φ	4L-8 Φ 200 C/C
RFB3	500 x 450	4-16 Φ	-	4-16 Φ	-	4L-8 Φ 200 C/C
RFB4	500 x 450	6-16 Φ	-	6-20 Φ	-	4L-8 Φ 100 C/C
RFB5	600 x 450	6-16 Φ	-	6-20 Φ	-	4L-8 Φ 150 C/C
RFB6	600 x 450	6-20 Φ	-	6-20 Φ	-	4L-10 Φ 100 C/C

NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	FOUNDATION MARK	SIZE	NET SAFE BEARING CAPACITY (T/M ²)
ISOLATED	F1	2.200m. x 2.200m.	12.75
	F2	2.500m. x 2.500m.	12.50
	F3	2.700m. x 2.700m.	12.42
	F4	2.900m. x 2.900m.	12.34
	F5	3.000m. x 3.000m.	12.30
	F6	3.200m. x 3.200m.	12.26
	F7	3.300m. x 3.300m.	12.24
COMBINED	CF	3.000m. WIDE	9.30
RAFT	RF	AS SHOWN	9.00

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.

SCHEDULE FOR ISOLATED FOUNDATION

UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE			FOUNDATION REINFORCEMENT DETAILS			
			WIDTH (m)	LENGTH (m)	THICKNESS	BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
					D1 (mm) D (mm) Df (mm)	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION	ALONG LONG DIRECTION
C8,C12,C25	F1	03	2.20	2.20	450 300 1500	12 Φ 150 C/C	12 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C4,C6,C13, C15,C17,C27	F2	06	2.50	2.50	550 400 1500	12 Φ 150 C/C	12 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C16,C23,C24, C26,C28	F3	05	2.70	2.70	550 400 1500	12 Φ 125 C/C	12 Φ 125 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C2,C5,C9,C18	F4	04	2.90	2.90	550 400 1500	16 Φ 175 C/C	16 Φ 175 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C21	F5	01	3.00	3.00	550 400 1500	16 Φ 175 C/C	16 Φ 175 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C22	F6	01	3.20	3.20	550 400 1500	16 Φ 150 C/C	16 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C
C3	F7	01	3.30	3.30	600 450 1500	16 Φ 150 C/C	16 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C

SCHEDULE FOR COMBINED FOUNDATION

FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS				BEAM MARKED	FOUNDATION BEAM SIZE			FOUNDATION BEAM REINFORCEMENT DETAIL			
		TOTAL LENGTH L (mm)	WIDTH C (mm)	THICKNESS T1 (mm)	DEPTH Df (mm)	BOTTOM REINFORCEMENT	ALONG LONG DIRECTION (b)	ALONG SHORT DIRECTION (a)	TOP REINFORCEMENT		LENGTH L (mm)	WIDTH W (mm)	DEPTH D (mm)	BOTTOM REINFORCEMENT	EXTRA	TOP REINFORCEMENT	EXTRA
CF	01	5239	3000	400	1500	16 Φ 125 C/C	12 Φ 150 C/C	8 Φ 200 C/C	8 Φ 200 C/C	CFB	5239	700	600	6-20 Φ	-	6-16 Φ	-

- 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
 - COMBINED FOUNDATION : 50 mm
 - RAFT FOUNDATION : 50 mm
 - SHEAR WALL : 20 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 ISOLATED AND COMBINED FOUNDATIONS AT DEPTH (-)1.50m. FROM G.L. AND FOR RAFT FOUNDATION AT DEPTH (-)1.90m. FROM G.L. HAVE BEEN CONSIDERED IN TUNE WITH THE SOIL REPORT PREPARED BY ASSOCIATED FOUNDATION ENGINEERS (ASIM SARKAR).
 - 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+1 STORIED RESIDENTIAL (APARTMENT) BUILDING OF SRI VIJAY AGARWAL, & SRI CHANDRAPRAKASH MISHRA, OVER R.S. PLOT NO.-463,L.R. PLOTNO.-1748,1749,1752,1753, L.R. KHATIAN NO.-2531,2539,2602,2606, MOUZA-BANACHITY, J.L. NO.-117, P.S.-DURGAPUR, 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

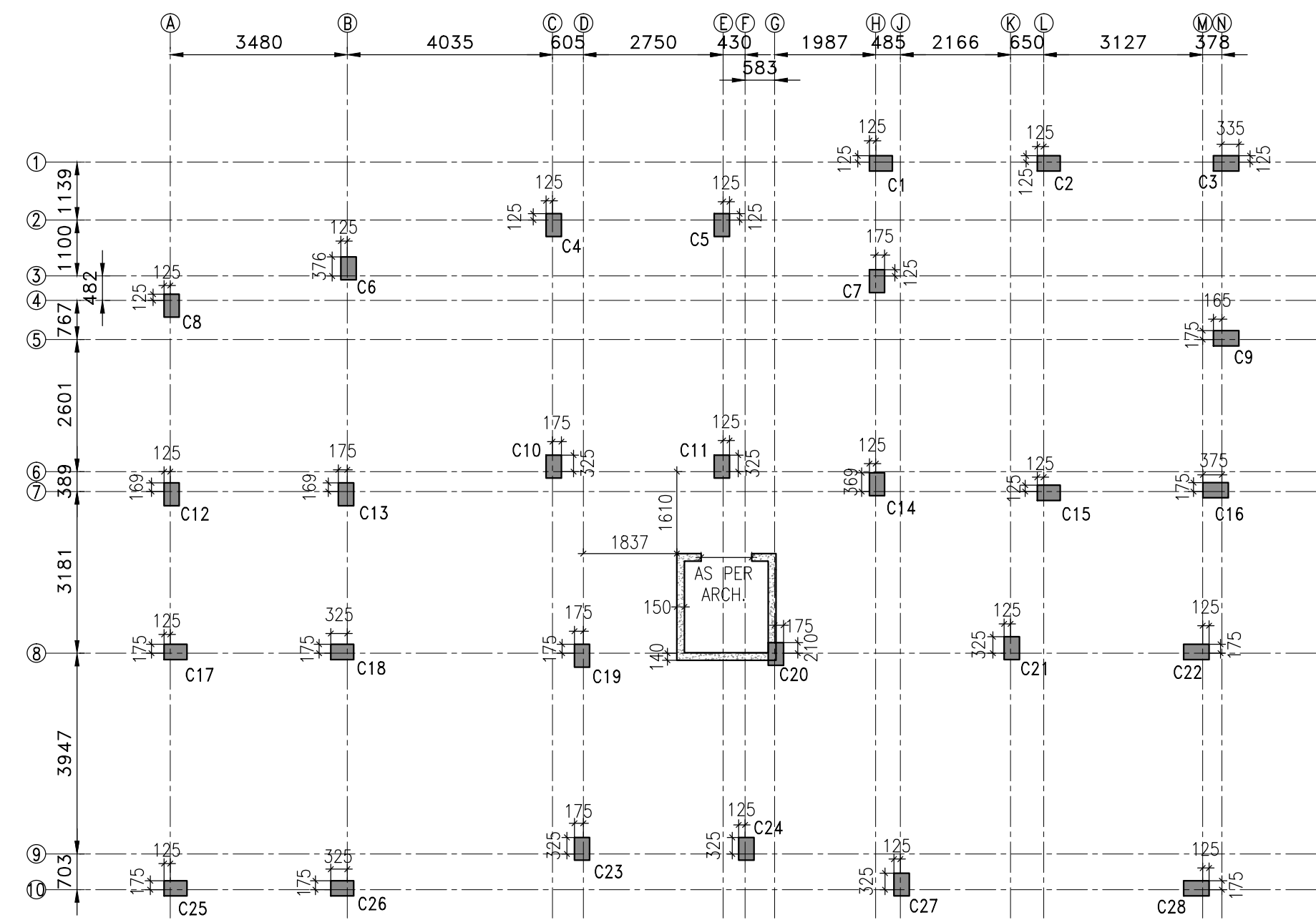
STRUCTURAL CONSULTANT

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

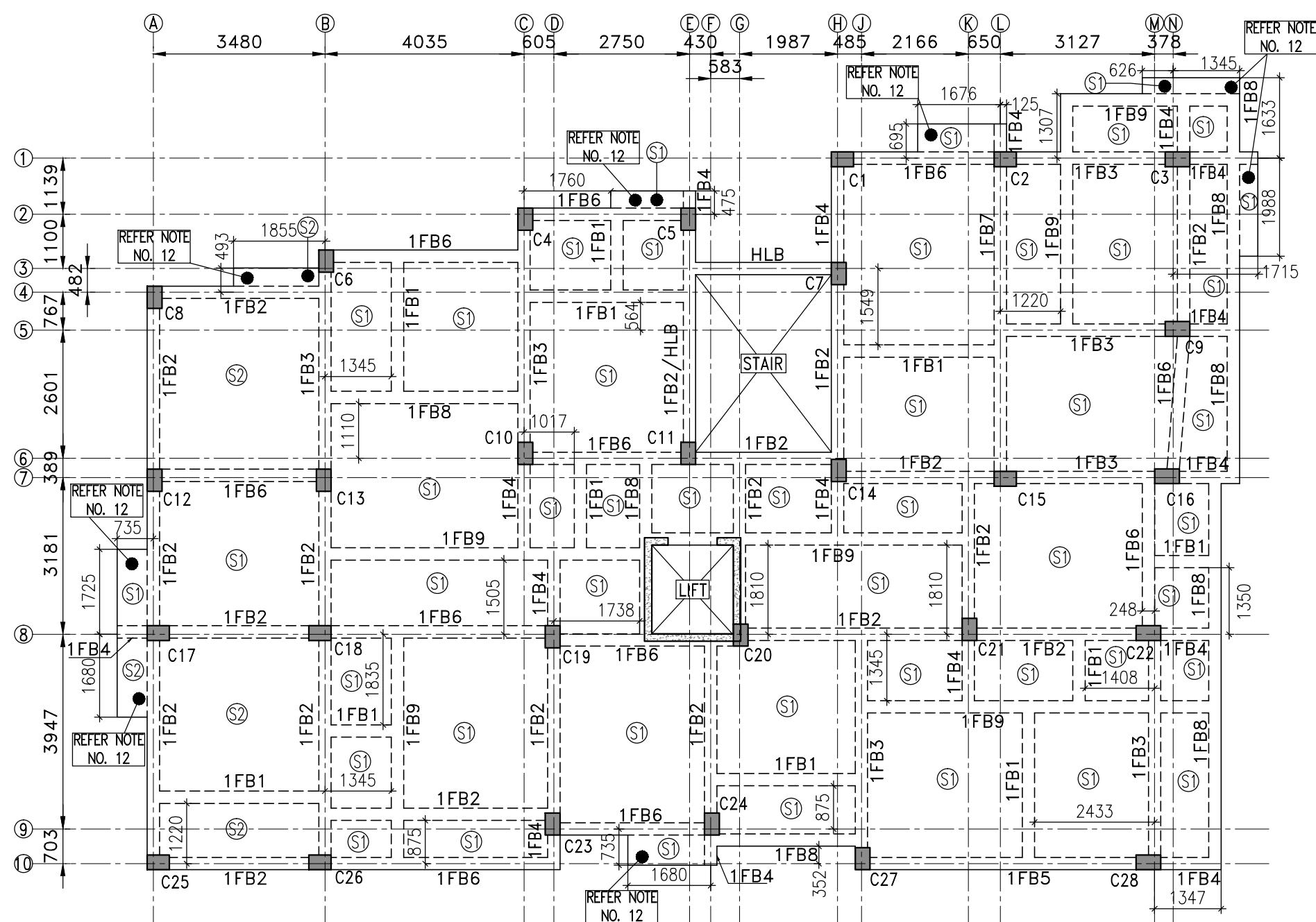
DRAWING TITLE
FOUNDATION LAYOUT PLAN WITH REINF. DETAILS.
SCALE:-1:100 OR AS SHOWN
DATE:-13.11.2025
SHEET NO.-1 OF 4

SHEET SIZE- A1





COLUMN LAYOUT PLAN
SCALE: 1:100

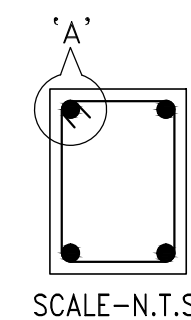
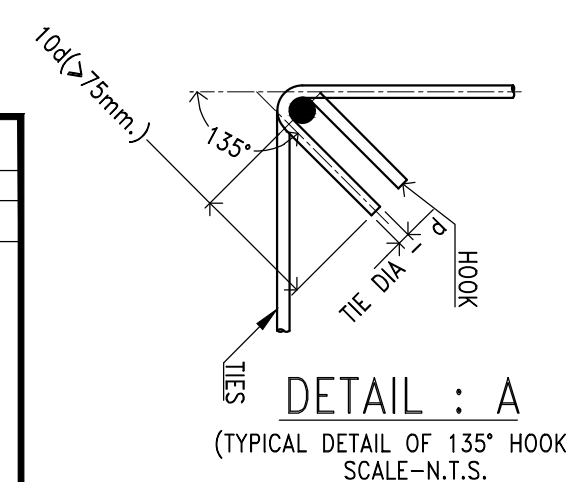


1ST FLOOR BEAM AND
SLAB LAYOUT PLAN AT LEVELS (+)3.200m.
S1 MARKED SLABS ARE 115mm. THICK.
S2 MARKED SLABS ARE 125mm. THICK.
HLB REFERS TO HALF LANDING BEAM.
SCALE: 1:100

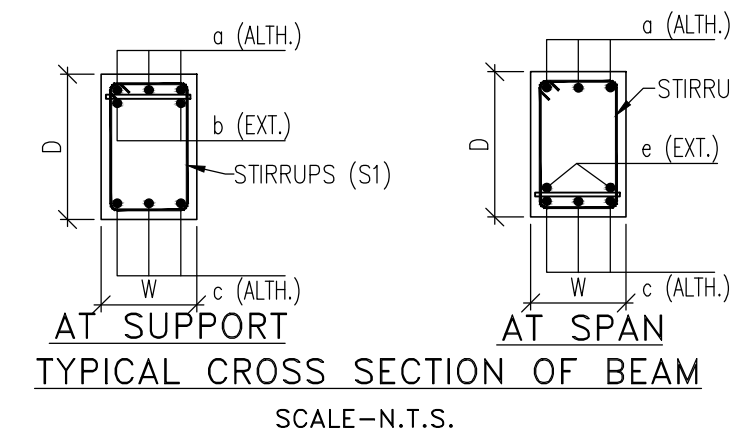
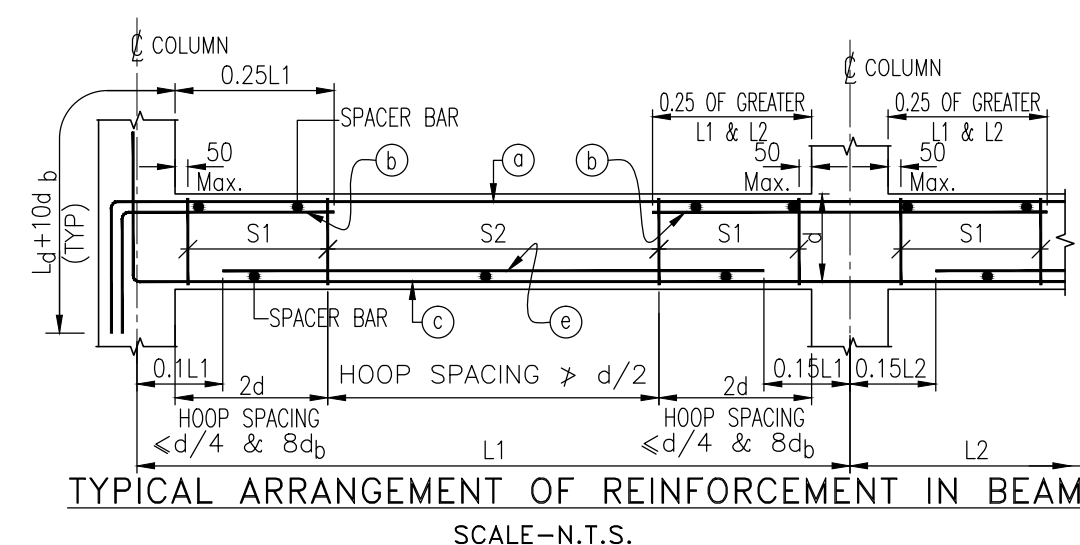
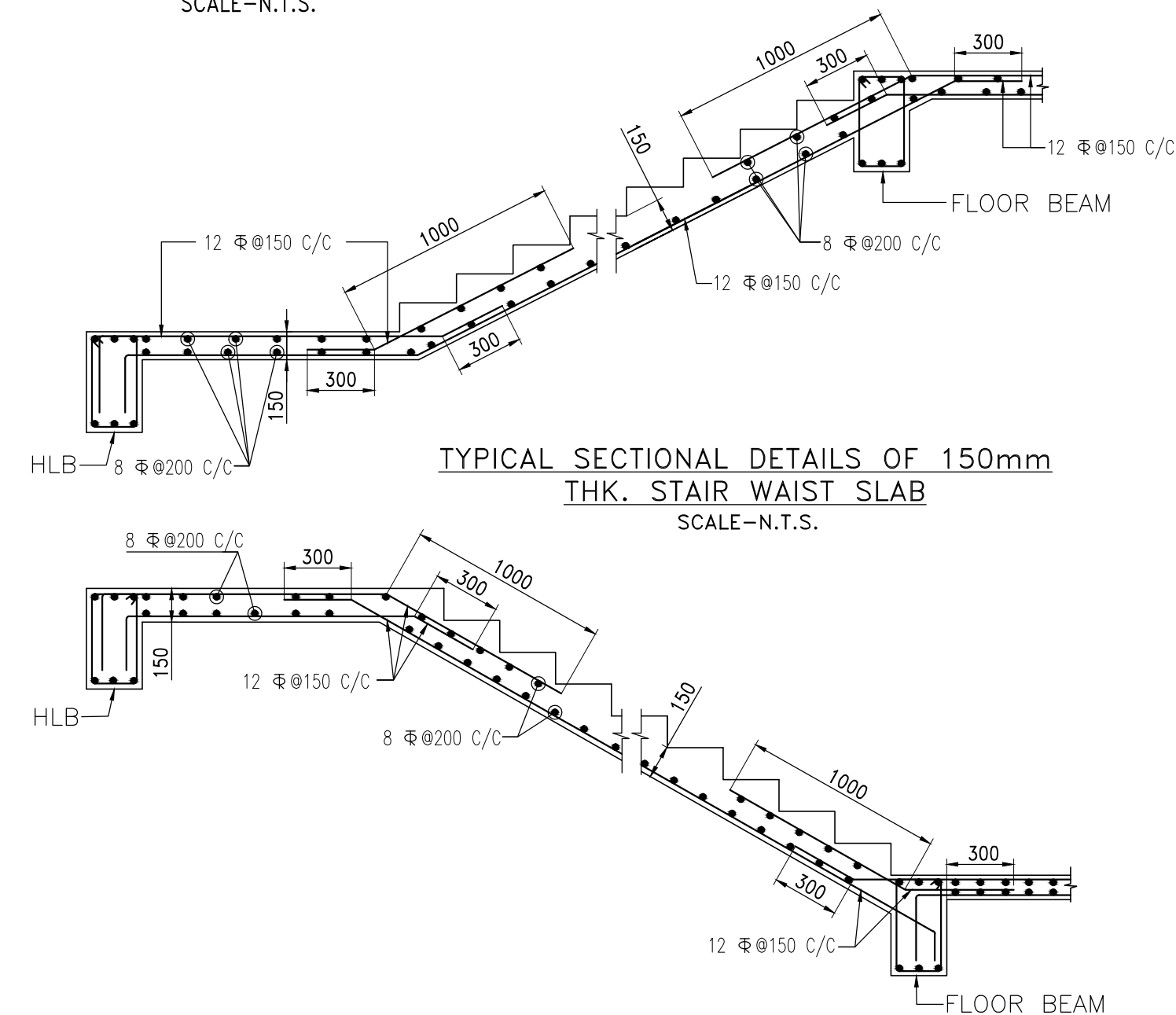
SCHEDULE OF STOOL COLUMNS			
COLUMN MARKED	NO. OF COLUMNS	COLUMN SIZE (mm x mm)	MAIN REINF. ARRANGEMENT
ST5 (ROOF TO L.M.R. ROOF)	01	250X300	MAIN RNF.: 4-16 Φ +2-12 Φ
ST1, ST3, ST4 (ROOF TO WATER TANK) ST2 (ROOF TO MUMTY ROOF) ST6, ST7 (ROOF TO L.M.R. ROOF)	06	250X250	MAIN RNF.: 4-16 Φ

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

SCHEDULE OF COLUMNS				
COLUMN MARKED	NO. OF COLUMNS	COLUMN SIZE (mm x mm)	FOUNDATION TO ROOF/ABOVE ROOF	STIRRUP ARRANGEMENT & SPACING NEAR JUNCTION (10) REST PORTION
C3, C9, C22	03	300X500	MAIN RNF.: 8-20 Φ +2-16 Φ	8 Φ @ 75 C/C (3 NOS. CLOSED LINK) 8 Φ @ 150 C/C (3 NOS. CLOSED LINK)
C16, C28	02	300X500	MAIN RNF.: 6-16 Φ +4-12 Φ	8 Φ @ 75 C/C (3 NOS. CLOSED LINK) 8 Φ @ 150 C/C (3 NOS. CLOSED LINK)
C1, C6, C7, C8, C10, C12, C13, C14, C18, C19, C23, C24, C25, C26	14	300X450	MAIN RNF.: 4-16 Φ +6-12 Φ	8 Φ @ 75 C/C (3 NOS. CLOSED LINK) 8 Φ @ 150 C/C (3 NOS. CLOSED LINK)
C2, C4, C5, C15, C17, C20, C21, C27	08	300X450	MAIN RNF.: 10-16 Φ	8 Φ @ 75 C/C (3 NOS. CLOSED LINK) 8 Φ @ 150 C/C (3 NOS. CLOSED LINK)
C11	01	300X450	MAIN RNF.: 4-20 Φ +6-16 Φ	8 Φ @ 75 C/C (3 NOS. CLOSED LINK) 8 Φ @ 150 C/C (3 NOS. CLOSED LINK)



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



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 - 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:
 - COLUMNS : 40 mm
 - BEAMS : 30 mm
 - SLABS : 20 mm
 - 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--

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SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT

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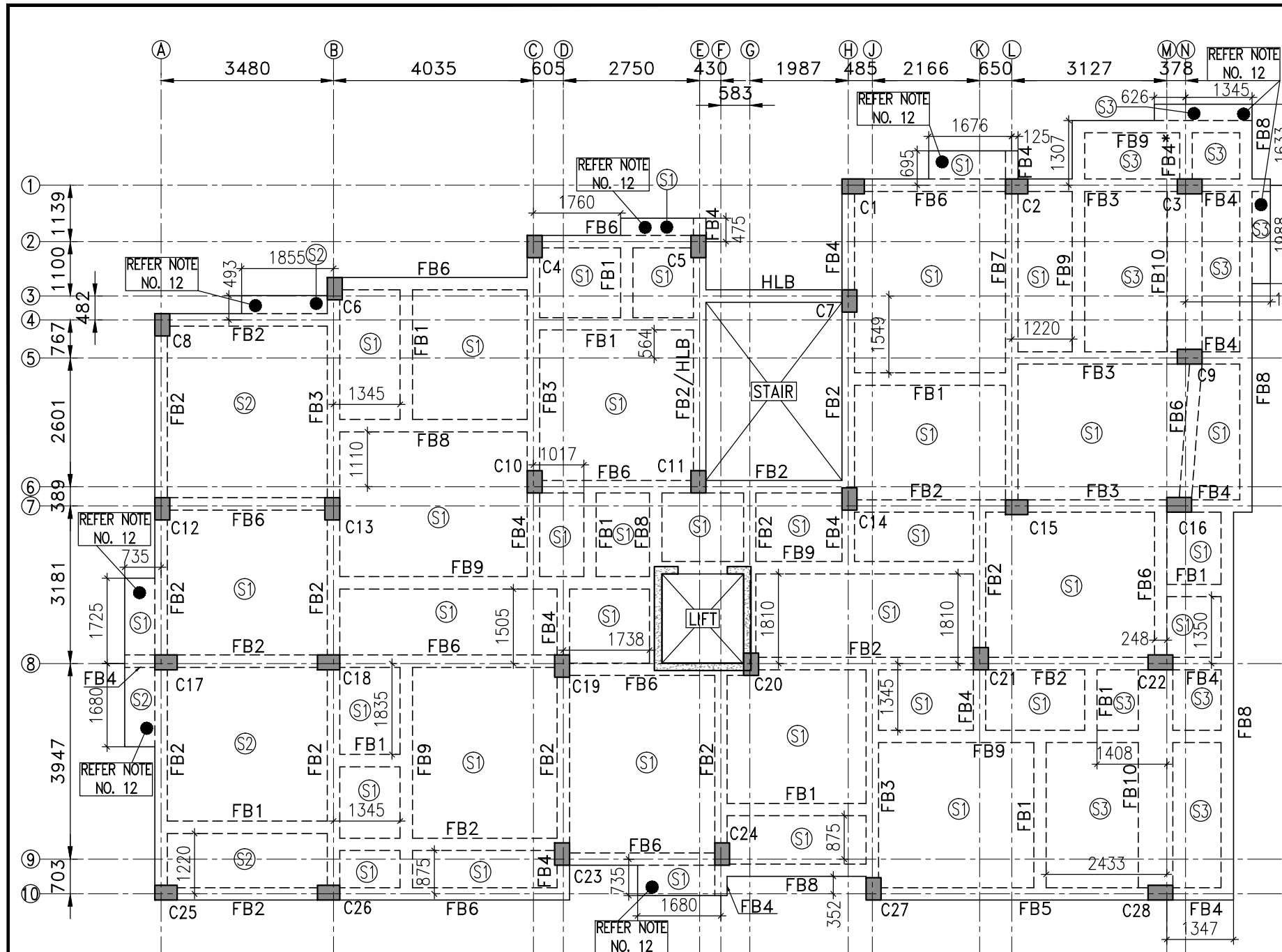
DRAWING TITLE

COLUMN LAYOUT PLAN WITH REINF. DETAILS, TIE BEAM
1ST FLOOR BEAM & SLAB LAYOUT PLAN DETAILS, DETAIL

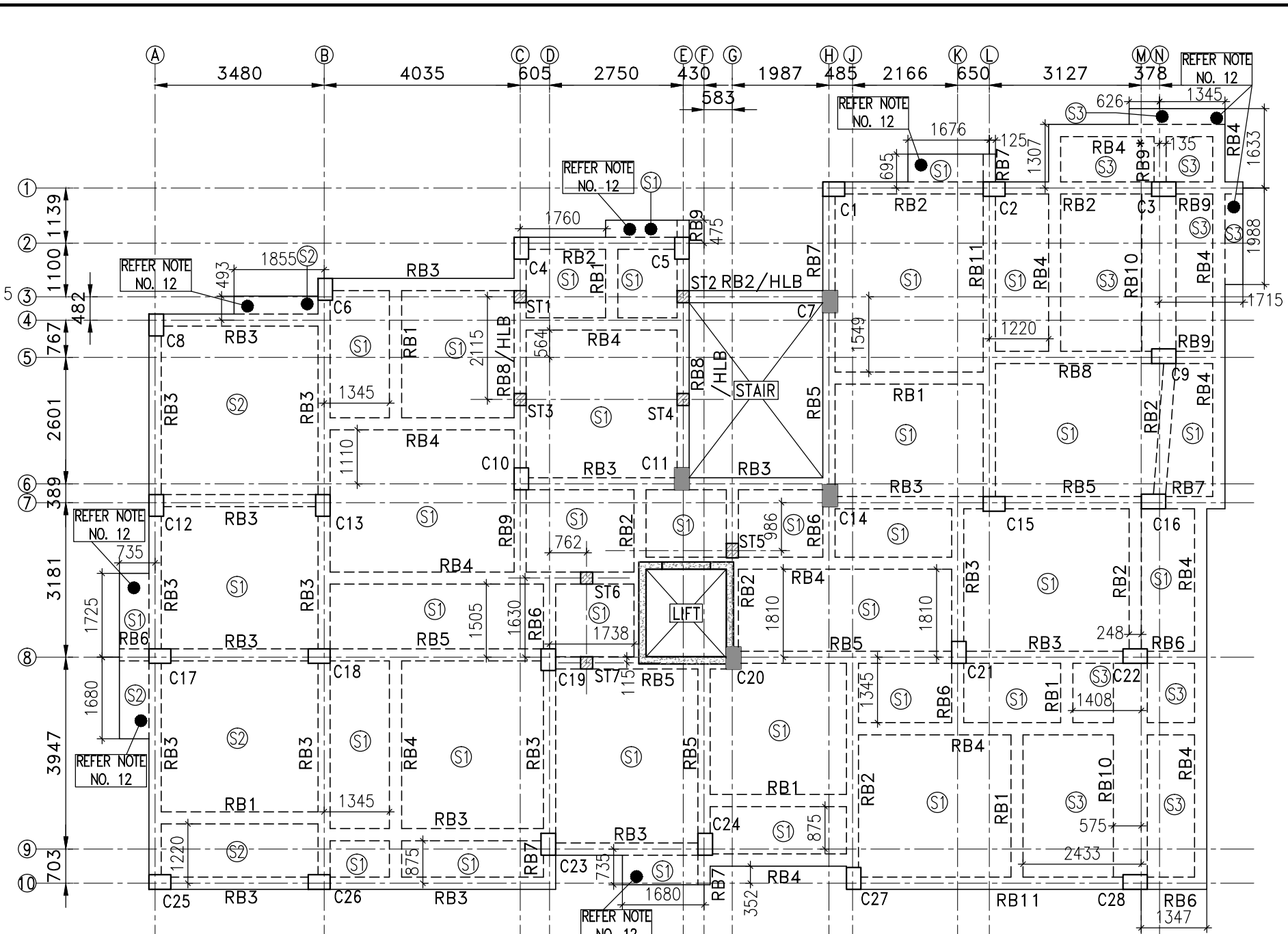
SCALE: 1:100 OR AS SHOWN
DATE: 13.11.2025
SHEET NO.- 2 OF 4

SHEET SIZE- A1

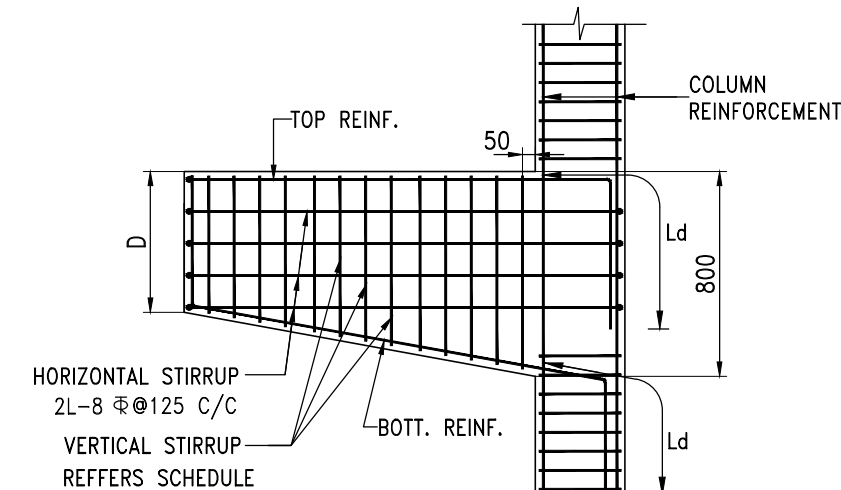




TYPICAL FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVELS
 (+)6.250m, (+)9.300m, (+)12.350m.
 S1 MARKED SLABS ARE 115mm. THICK.
 S2 MARKED SLABS ARE 125mm. THICK.
 S3 MARKED SLABS ARE 150mm. THICK.
 FOR * MARKED BEAM REFERS DETAIL 1.
 HLB REFERS TO HALF LANDING BEAM.
 SCALE-1:100



ROOF BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)15.400m.
 S1 MARKED SLABS ARE 115mm. THICK.
 S2 MARKED SLABS ARE 125mm. THICK.
 S3 MARKED SLABS ARE 150mm. THICK.
 FOR * MARKED BEAM REFERS DETAIL 1.
 HLB REFERS TO HALF LANDING BEAM.
 SCALE-1:100



DETAIL 1
 TYPICAL DETAIL OF CORBEL BEAM
 SCALE-N.T.S.

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

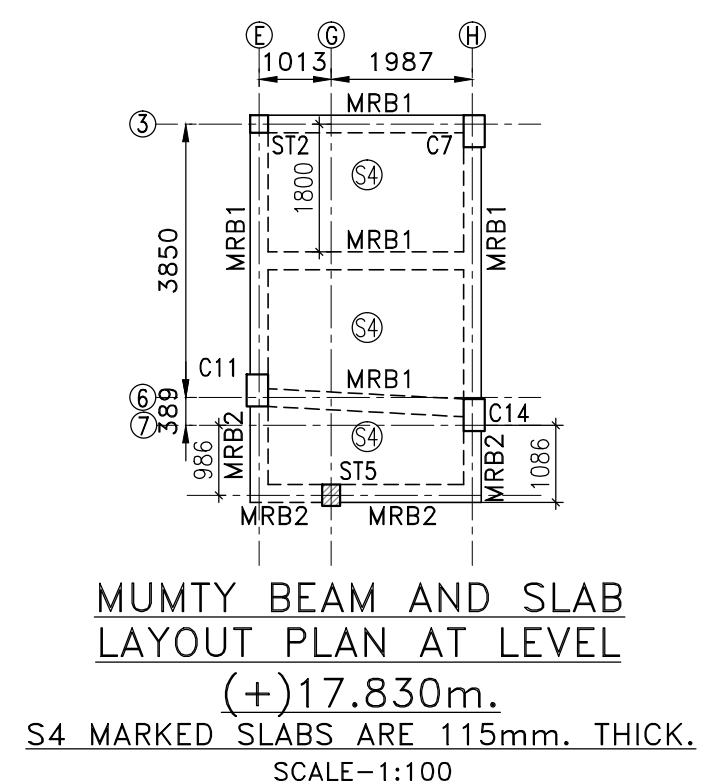
BEAM MARKED	BEAM SIZE WIDTH (W) DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
1FB1	250 400	3-12 Φ	-	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 150 C/C
1FB2	250 450	3-16 Φ	2-16 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
1FB3	250 450	3-16 Φ	3-16 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
1FB4	250 450	3-16 Φ +3-20 Φ	-	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
1FB5	250 450	3-16 Φ	3-20 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
1FB6	250 450	3-16 Φ	2-12 Φ	3-16 Φ +2-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
1FB7	250 450	3-16 Φ	3-16 Φ	3-16 Φ	2-12 Φ	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
1FB8	250 450	3-12 Φ	-	3-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
1FB9	250 450	3-16 Φ	-	3-16 Φ +2-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 150 C/C
HLB	250 450	3-16 Φ	2-16 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C

BEAM MARKED	BEAM SIZE WIDTH (W) DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
FB1	250 400	3-12 Φ	-	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 150 C/C
FB2	250 450	3-16 Φ	2-16 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
FB3	250 450	3-16 Φ	3-16 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
FB4	250 450	3-16 Φ +3-20 Φ	-	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
FB5	250 450	3-16 Φ	3-20 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
FB6	250 450	3-16 Φ	2-12 Φ	3-16 Φ +2-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
FB7	250 450	3-16 Φ	3-16 Φ	3-16 Φ	2-12 Φ	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
FB8	250 450	3-12 Φ	-	3-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
FB9	250 450	3-16 Φ	-	3-16 Φ +2-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 150 C/C
FB10	700 175	7-16 Φ	-	7-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 150 C/C
HLB	250 450	3-16 Φ	2-16 Φ	3-16 Φ	-	4L-8 Φ 100 C/C	2L-8 Φ 200 C/C

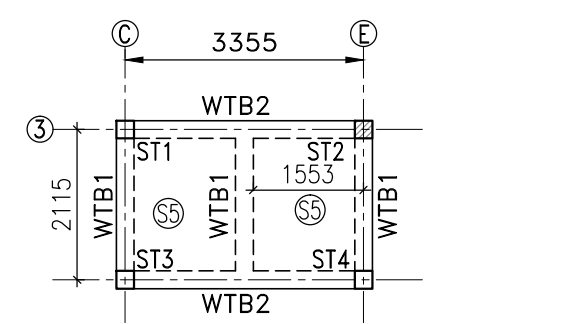
BEAM MARKED	BEAM SIZE WIDTH (W) DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
RB1	250 400	3-12 Φ	-	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 150 C/C
RB2	250 450	3-16 Φ	-	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
RB3	250 450	2-12 Φ +1-16 Φ	-	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
RB4	250 450	2-12 Φ +1-16 Φ	-	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 150 C/C
RB5	250 450	3-12 Φ	-	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
RB6	250 450	LAYER1: 2-12 Φ LAYER2: 3-16 Φ	-	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
RB7	250 450	3-16 Φ	-	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
RB8	250 450	3-16 Φ	3-16 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 150 C/C
RB9	250 450	3-16 Φ	-	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
RB10	700 175	6-16 Φ	-	6-16 Φ	-	4L-8 Φ 100 C/C	4L-8 Φ 150 C/C
RB11	250 450	2-12 Φ +1-16 Φ	2-16 Φ	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
HLB	250 450	3-16 Φ	2-16 Φ	3-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C

BEAM MARKED	BEAM SIZE WIDTH (W) DEPTH (D) (mm)	TOP REINFORCEMENT ALTHROUGH (a)	EXTRA AT SUPPORT (b)	BOTTOM REINFORCEMENT ALTHROUGH (c)	EXTRA AT SPAN (e)	STIRRUPS (AT SUPPORT) (S1)	STIRRUPS (AT SPAN) (S2)
WTB1	250 450	3-12 Φ	-	3-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
WTB2	250 450	2-12 Φ +1-16 Φ	-	2-12 Φ +1-16 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
LMFB1	250 400	3-12 Φ	-	3-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
LMFB2	250 400	3-12 Φ	-	3-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
MRB1	250 400	2-12 Φ +1-16 Φ	-	3-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C
MRB2	250 400	LAYER1: 2-12 Φ LAYER2: 2-12 Φ	-	3-12 Φ +2-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
LMRB1	250 400	3-12 Φ	-	3-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 100 C/C
LMRB2	250 400	3-12 Φ	-	3-12 Φ	-	2L-8 Φ 100 C/C	2L-8 Φ 200 C/C

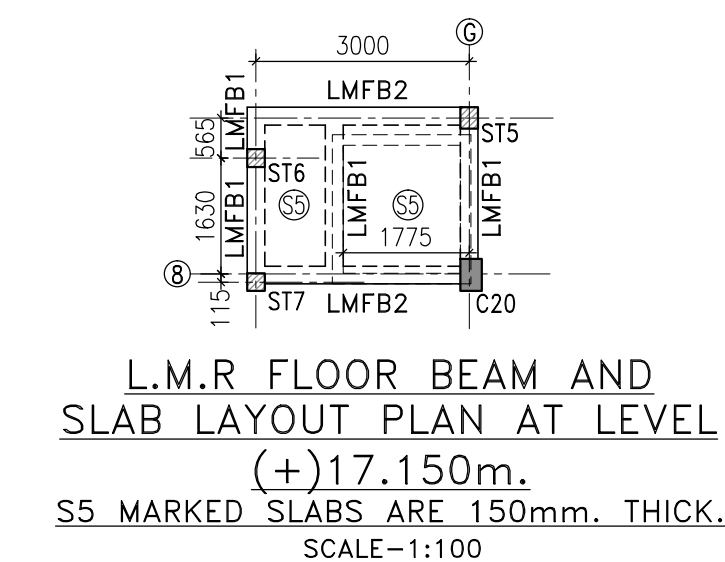
SPECIAL NOTE:-
 THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.



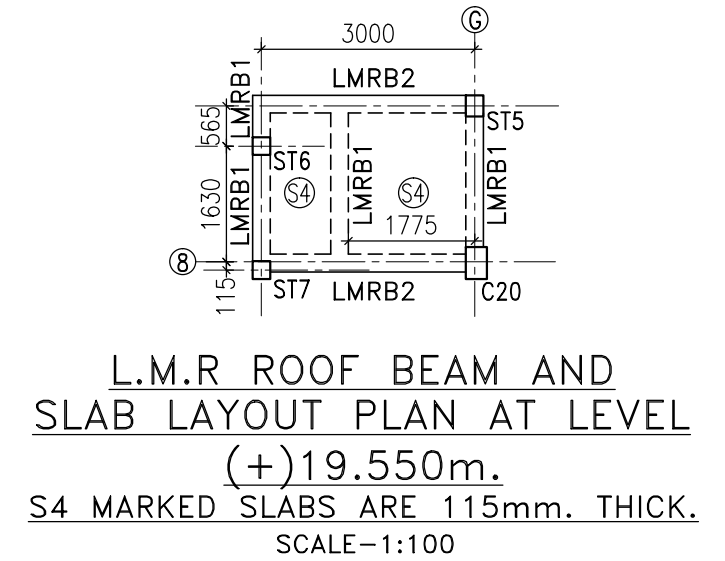
MUMTY BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)17.830m.
 S4 MARKED SLABS ARE 115mm. THICK.
 SCALE-1:100



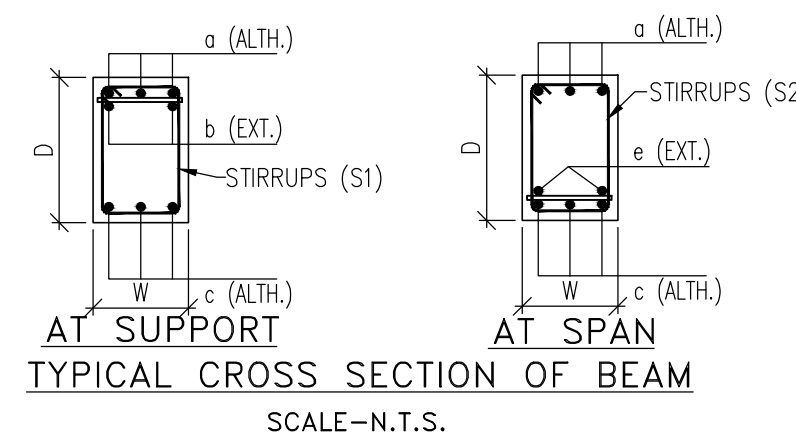
WATER TANK BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)16.400m.
 WATER TANK CAPACITY-10,000 LIT.
 S5 MARKED SLABS ARE 150mm. THICK.
 SCALE-1:100



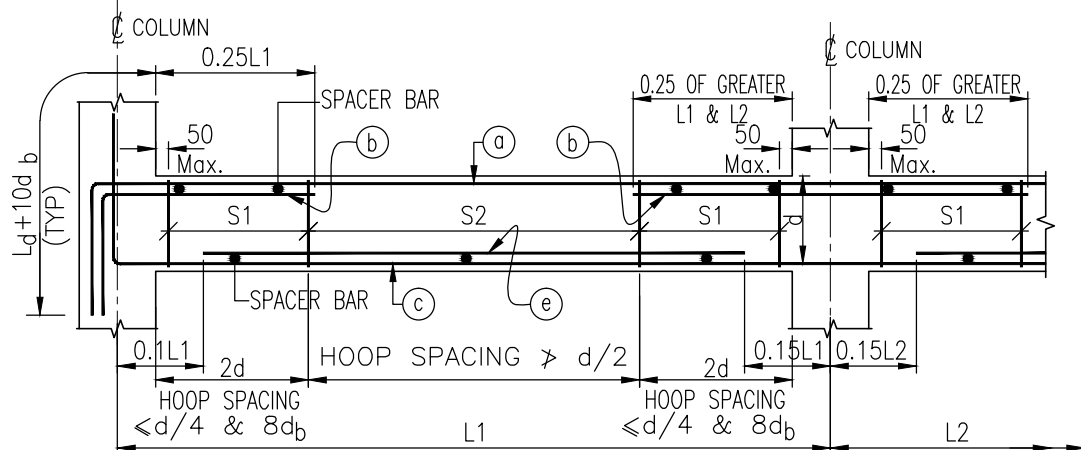
L.M.R FLOOR BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)17.150m.
 S5 MARKED SLABS ARE 150mm. THICK.
 SCALE-1:100



L.M.R ROOF BEAM AND SLAB LAYOUT PLAN AT LEVEL (+)19.550m.
 S4 MARKED SLABS ARE 115mm. THICK.
 SCALE-1:100



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



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

- NOTES :**
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 - 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:
 - COLUMNS : 40 mm
 - BEAMS : 30 mm
 - SLABS : 20 mm
 - 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+1 STORIED RESIDENTIAL (APARTMENT) BUILDING OF SRI. VIJAY AGARWAL, & SRI. CHANDRAPRAKASH MISHRA, OVER R.S. PLOT NO.-463,L.R. PLOTNO.-1748,1749,1752,1753, L.R. KHATIAN NO.-2531,2539,2602,2606, MOUZA-BANACHITY, J.L. NO.-117, P.S.-DURGAPUR, 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
 STRUCTCON ENTERPRISE
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 968, KALIKAPUR ROAD,
 KOLKATA- 700 099
 Email-structconenterprise@gmail.com
 Ph.-8100483509

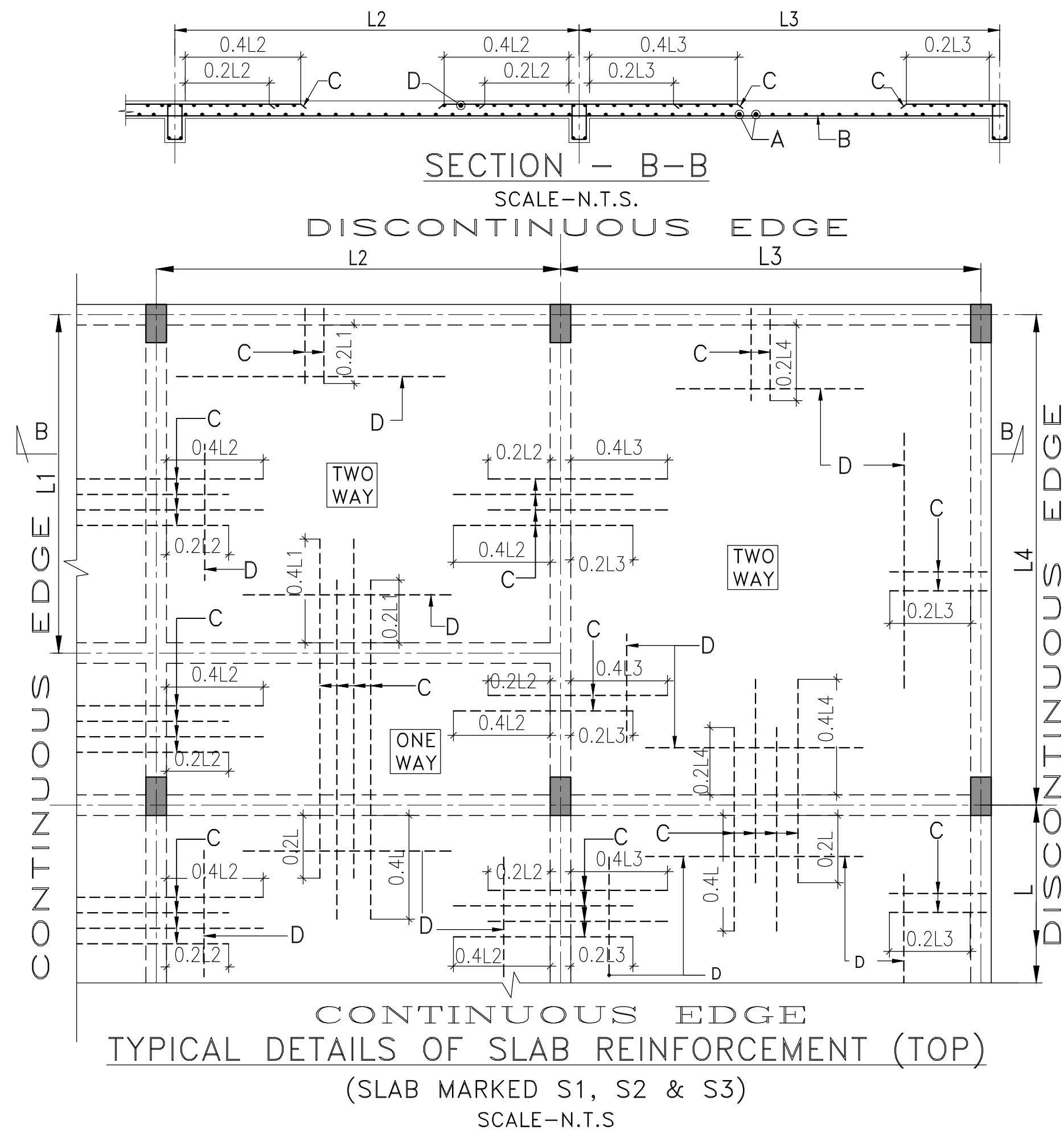
DRAWING TITLE

REINF. DETAILS OF TIE BEAM & 1ST FLOOR, TYPICAL FLOOR BEAM & SLAB LAYOUT PLAN WITH REINF.

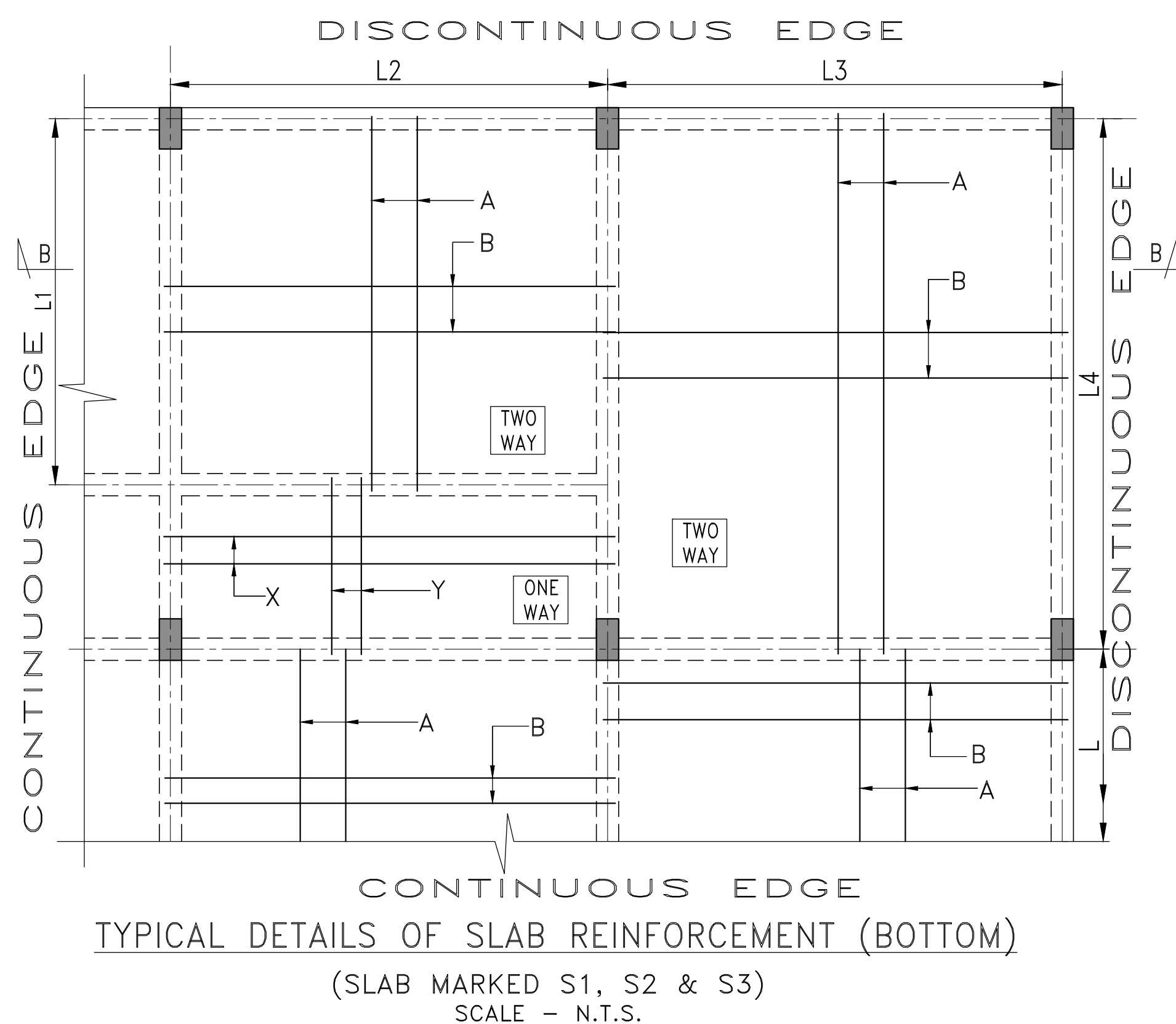
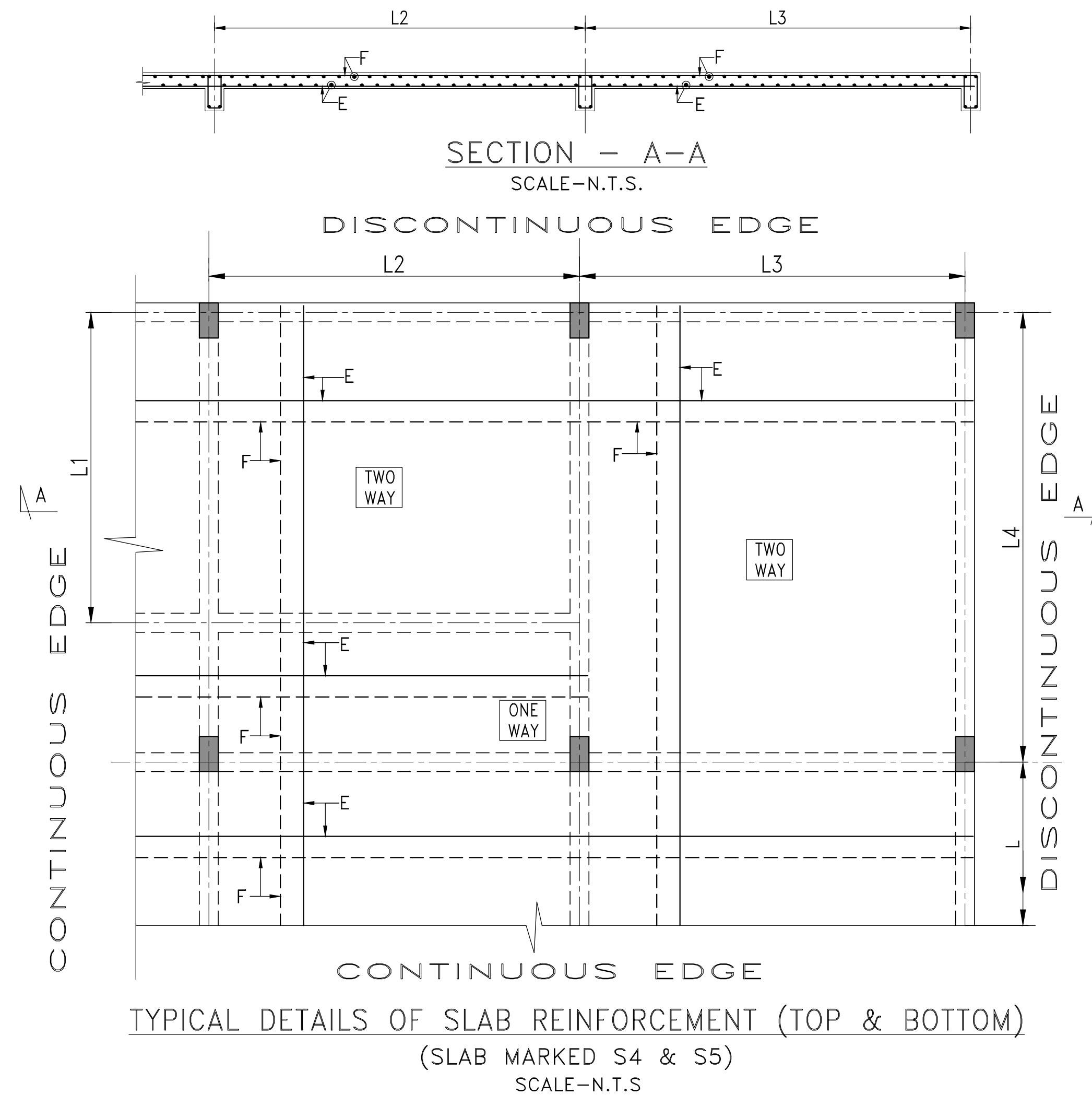
SCALE-1:100 OR AS SHOWN
 DATE-13.11.2025
 SHEET NO.-2 OF 4

SHEET SIZE- A1





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



SCHEDULE OF S1, S2 & S3 MARKED SLABS
(1ST , TYPICAL FLOOR & ROOF SLABS
THICKNESS-115mm, 125mm & 150mm.)

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

SCHEDULE OF S5 MARKED SLABS
(WATER TANK & 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 S4 MARKED SLABS
(MUMTY & 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

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Email-structconenterprise@gmail.com
Ph.-8100483509

DRAWING TITLE

DETAILS OF SLAB.

SCALE.-1:100 OR AS SHOWN

DATE.- 13.11.2025

SHEET NO.- 4 OF 4

SHEET SIZE- A2

