

FOUNDATION LAYOUT PLAN
RAFT SLAB (RS) THICKNESS 400 mm.
SCALE-1:100

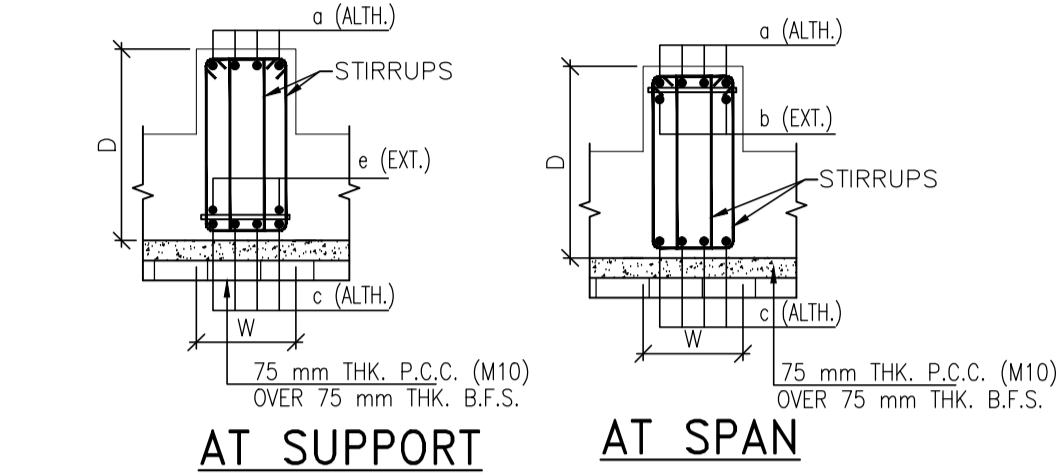
NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/M ²)
ISOLATED	2.30m. x 2.30m.	10.0
	2.90m. x 2.90m.	9.80
	2.805m. x 2.80m.	9.90
	3.80m. x 2.85m.	8.20
RAFT	AS SHOWN	7.20

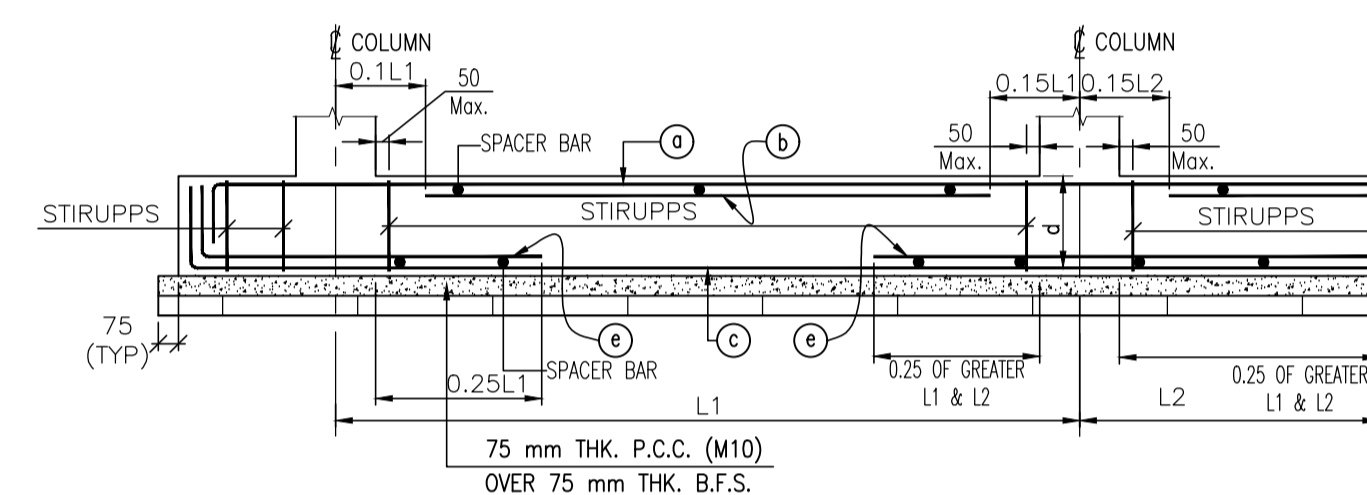
SPECIAL NOTE:-
THIS DESIGN WILL NOT BE VALID IF THIS BEARING CAPACITIES ARE NOT ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER.

SCHEDULE FOR ISOLATED FOUNDATION

UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS					
			LENGTH (m)	WIDTH (m)	THICKNESS		DEPTH		BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
					D1 (mm)	D (mm)	Df (mm)	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	ALONG SHORT DIRECTION	ALONG LONG DIRECTION	
C1,C4,C19,C22	F1	04	2.30	2.30	400	250	2500	12 Φ 150 C/C	12 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C	
C2,C3,C6,C11,C20,C21	F2	06	2.90	2.90	450	300	2500	12 Φ 125 C/C	12 Φ 125 C/C	8 Φ 300 C/C	8 Φ 300 C/C	
C5,C12,C17,C18	F3	04	2.80	2.80	450	250	2500	12 Φ 100 C/C	12 Φ 100 C/C	8 Φ 300 C/C	8 Φ 300 C/C	
C9	F4	01	3.80	2.85	500	350	2500	12 Φ 150 C/C	16 Φ 150 C/C	8 Φ 300 C/C	8 Φ 300 C/C	



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



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

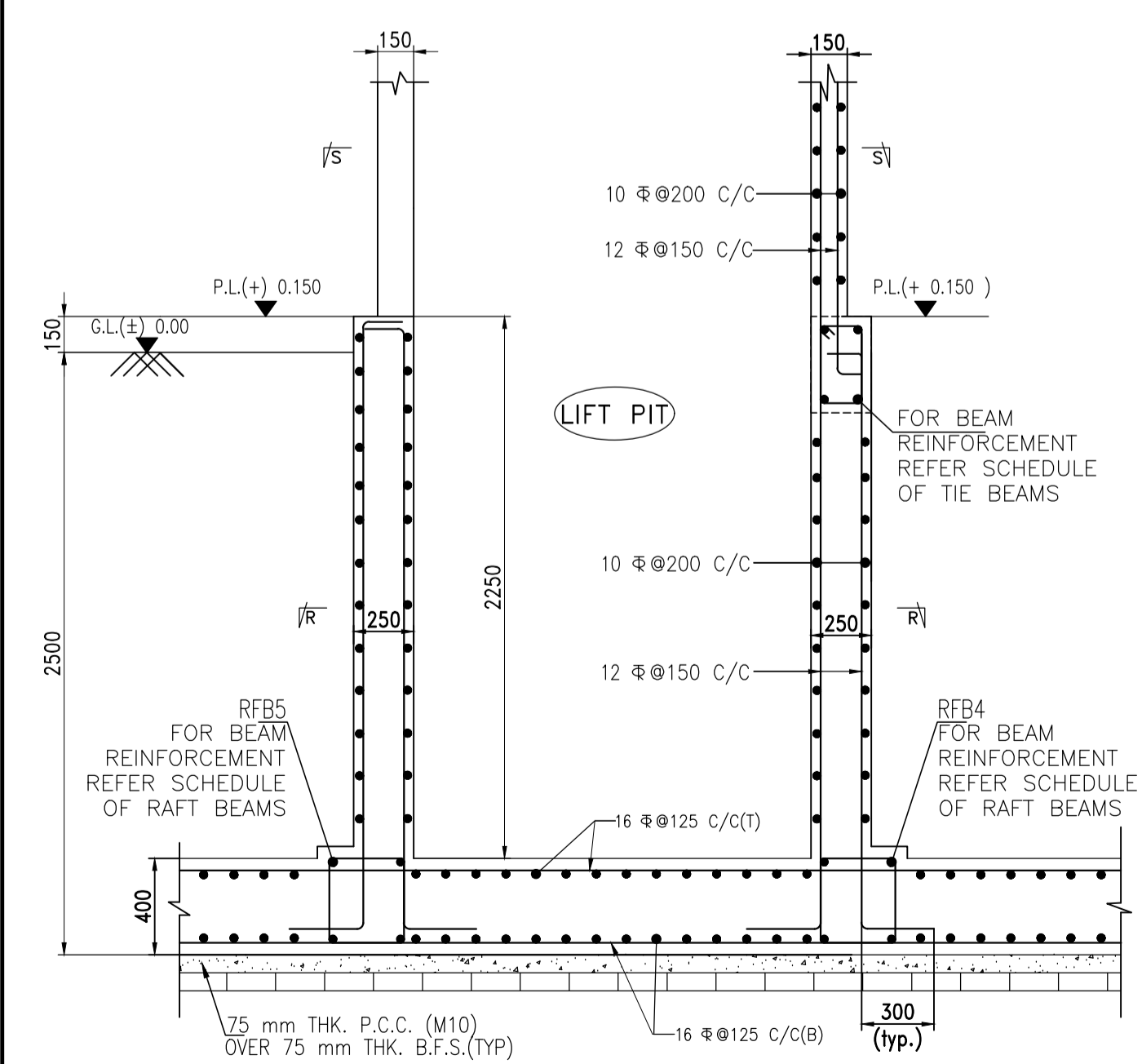
SCHEDULE OF RAFT SLAB

SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
		RS	400	16 Φ 125 C/C	16 Φ 125 C/C

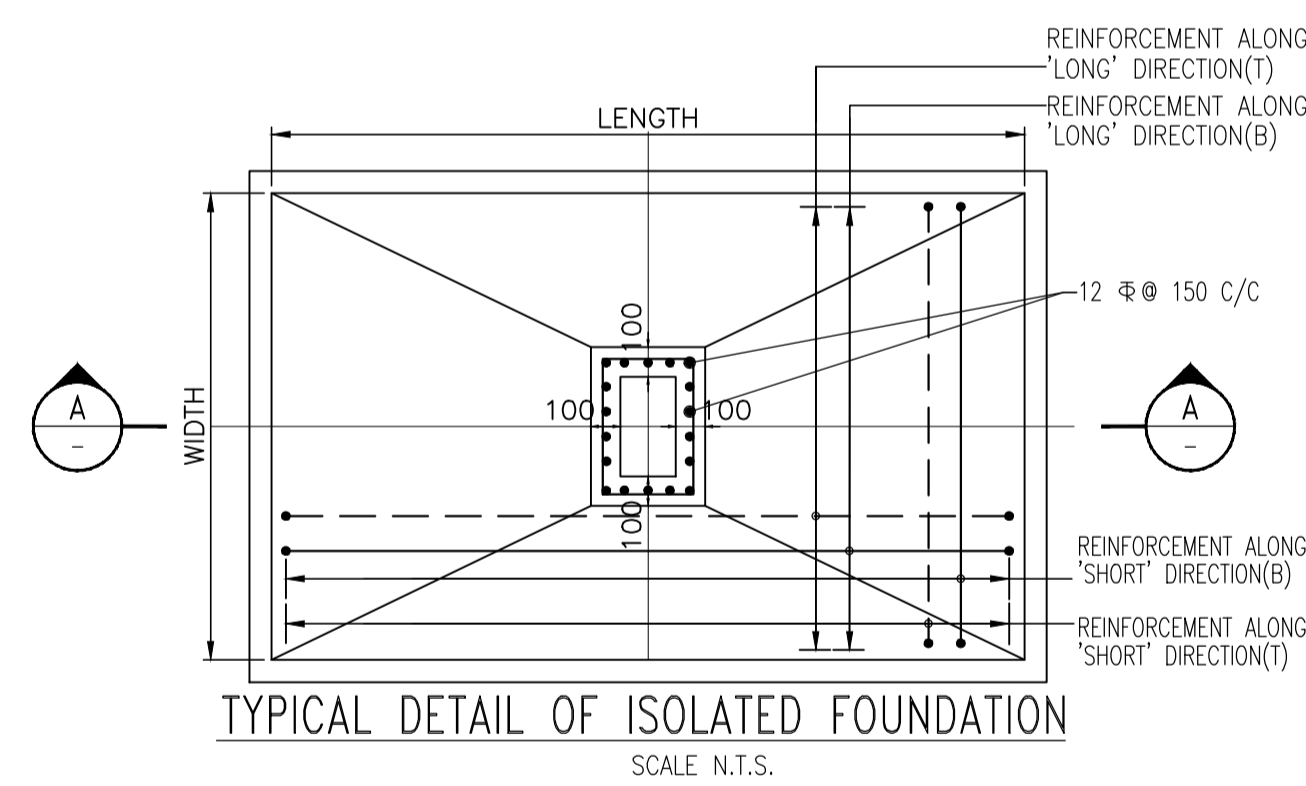
SCHEDULE OF RAFT BEAMS

BEAM MARKED	BEAM SIZE	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS
		ALTHROUGH	EXTRA AT SPAN	ALTHROUGH	EXTRA AT SUPPORT	
RFB1	600 x 450	5-12 Φ	2-12 Φ	5-16 Φ	4-16 Φ	4L-12 Φ 125 C/C
RFB2	500 x 450	5-12 Φ	-	5-12 Φ	4-12 Φ	4L-8 Φ 200 C/C
RFB3	500 x 450	5-12 Φ	2-12 Φ	5-16 Φ	5-16 Φ	4L-10 Φ 100 C/C
RFB4	400 x 450	4-12 Φ	2-12 Φ	4-12 Φ	4-16 Φ	4L-12 Φ 150 C/C
RFB5	400 x 450	4-12 Φ	-	4-12 Φ	-	4L-8 Φ 200 C/C
RFB6	400 x 450	4-12 Φ	2-12 Φ	4-16 Φ	3-16 Φ	4L-8 Φ 200 C/C
RFB7	400 x 450	5-12 Φ	-	5-16 Φ	4-16 Φ	4L-12 Φ 150 C/C

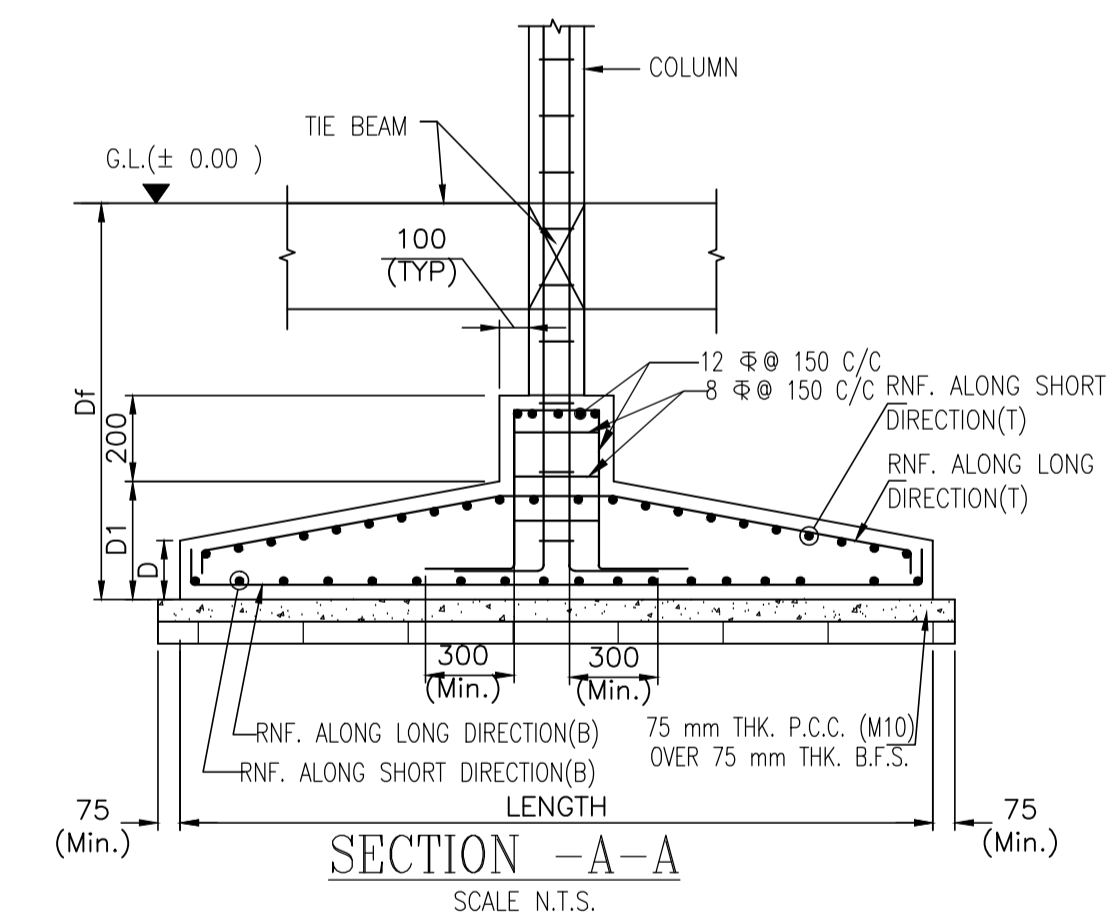
SPECIAL NOTES:-
1. THIS STRUCTURAL DRAWING IS VALID IF THE CONSTRUCTION IS DONE USING AAC BLOCKS FOLLOWING PROPER DIMENSION OF EXTERNAL AND INTERNAL WALLS AS PER ARCHITECTURAL DRAWING.
2. THE STRUCTURE MUST BE CONSTRUCTED IN PRESENCE OF A COMPETENT STRUCTURAL ENGINEER FOR STRICT SUPERVISION.



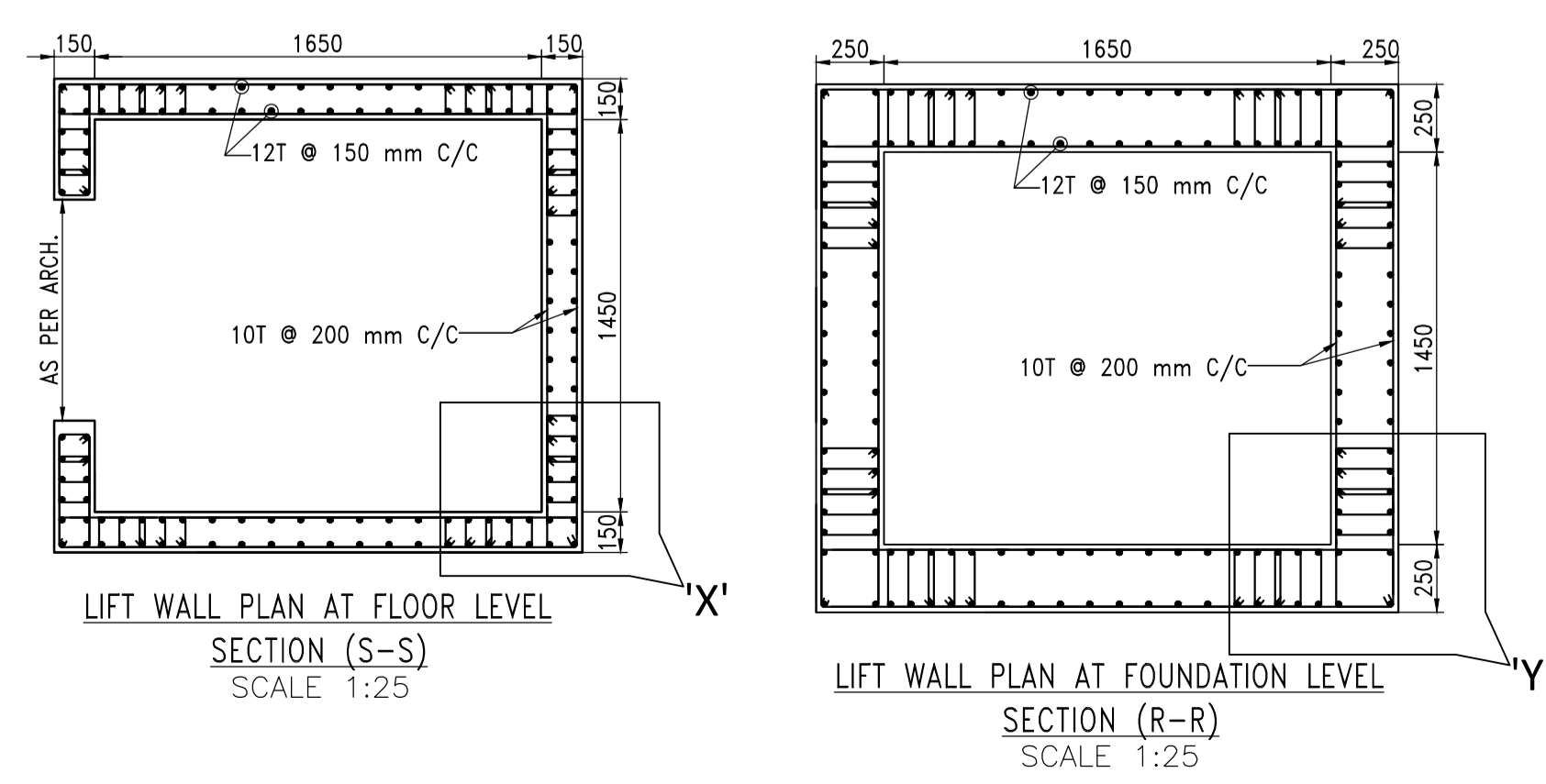
SECTION AT -E-E
SCALE- 1:25



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

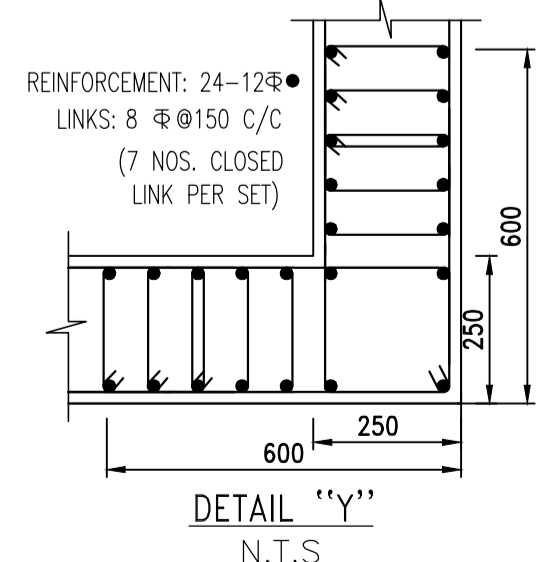


SECTION -A-A
SCALE N.T.S.

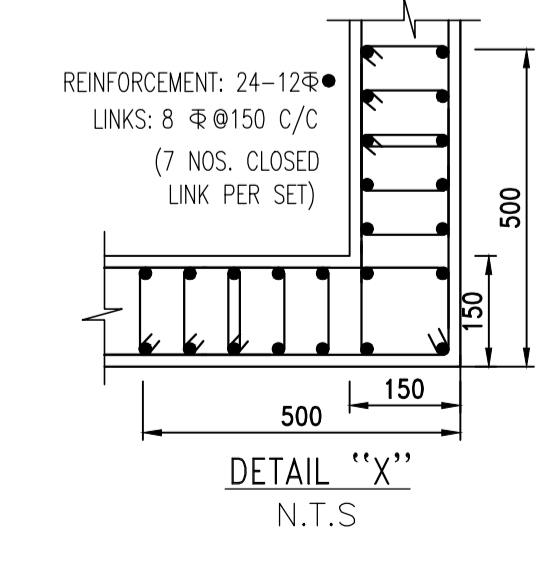


LIFT WALL PLAN AT FLOOR LEVEL
SECTION (S-S)
SCALE 1:25

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



DETAIL "y"
N.T.S.



DETAIL "x"
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).
 - 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:
i) ISOLATED FOUNDATION : 50 mm
ii) RAFT BEAM & SLAB : 50 mm
iii) 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 SP34:1987
 - THE NET SAFE BEARING CAPACITIES FOR ALL ISOLATED FOOTINGS AT DEPTH (-)2.5m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. ALOK ROY.
 - THE NET SAFE BEARING CAPACITY OF THE RAFT SHOWN IN THE DRAWING AT DEPTH (-)2.5m. FROM G.L. HAS BEEN CONSIDERED 7.2T/SOM ON THE BASIS OF SOIL REPORT PREPARED BY MR. ALOK ROY. THIS MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEOTECHNICAL 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+4 STORIED RESIDENTIAL (APARTMENT) BUILDING OF M/S. MADHU MAMATA HOUSING PRIVATE LIMITED OVER L.R. PLOT NO. - 6019, 6044, KHATIAN NO.- 3993, MOUZA - DAKSHINKHANDA, J.L. NO- 36, P.S. - ANDAL, DIST- PASCHIM BURDWAN.

SIGNATURE OF ARCHITECT/ ENGINEER

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

SIGNATURE OF STRUCTURAL ENGINEER

SIGNATURE OF THE VETTING AUTHORITY

STRUCTURAL CONSULTANT:
STRUCTCON ENTERPRISE
REGD. ADDRESS: ASHRAY APARTMENT,
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KOLKATA- 700 099
Email-structconenterprise@gmail.com
Ph.-6897517321, 7003201735

DRAWING TITLE
FOUNDATION LAYOUT PLAN AND REINFORCEMENT DETAILS OF LIFT AND FOUNDATION
SCALE-1:100 OR
DATE-02.07.2022
SHEET NO. - 1

