

NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/N)
ISOLATED	1.9m x 2.0m.	13.5
	2.4m x 2.5m.	13.2
	2.5m x 2.5m.	13.2
	3.6m x 3.6m.	12.4
	1.85m x 2.5m.	13.5
	2.2m x 3.5m.	13.2
RAFT	AS SHOWN IN DRAWING	10.0
COMBINED	AS SHOWN IN DRAWING	13.0

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 OF RAFT FOOTING BEAMS

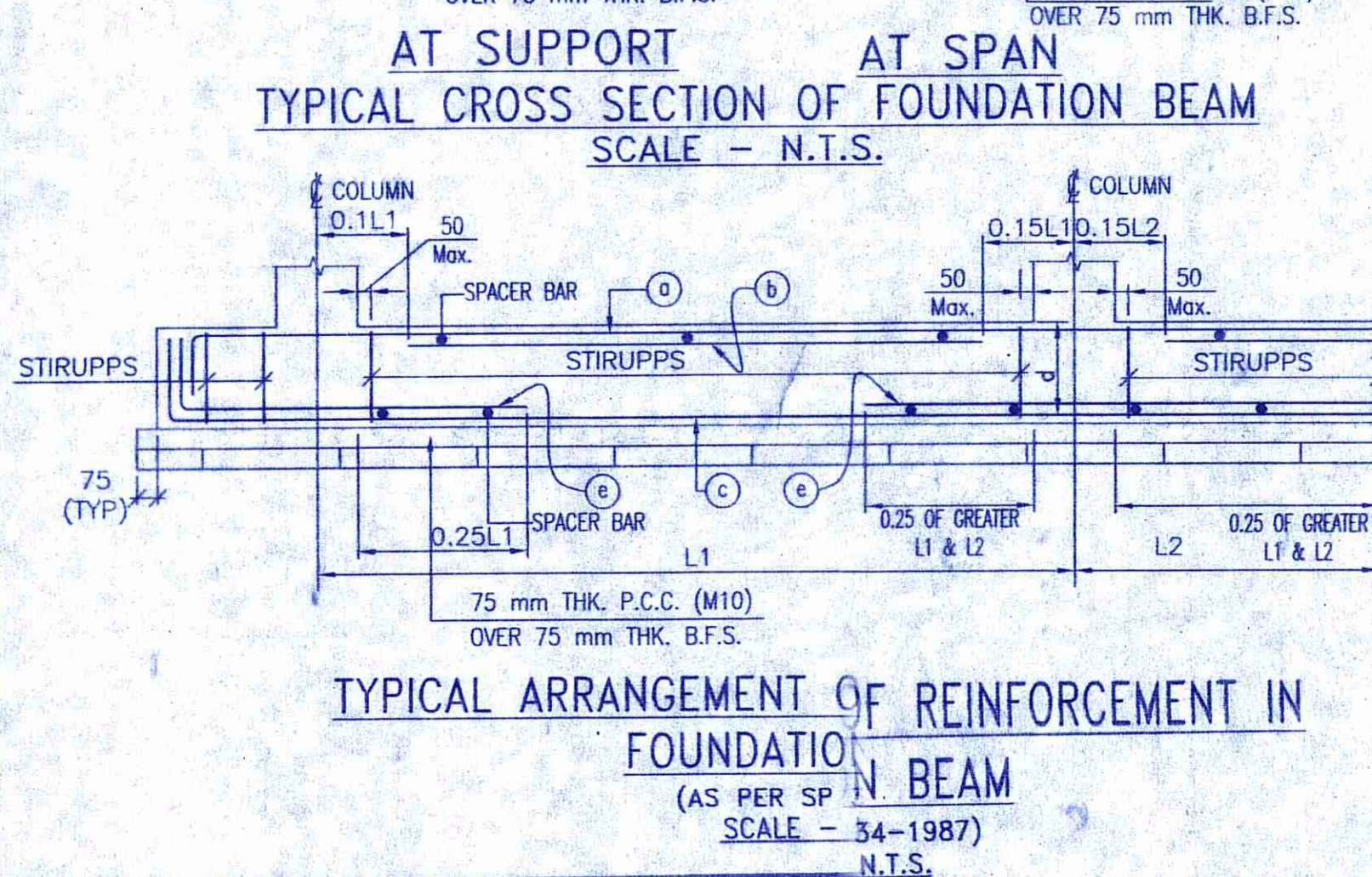
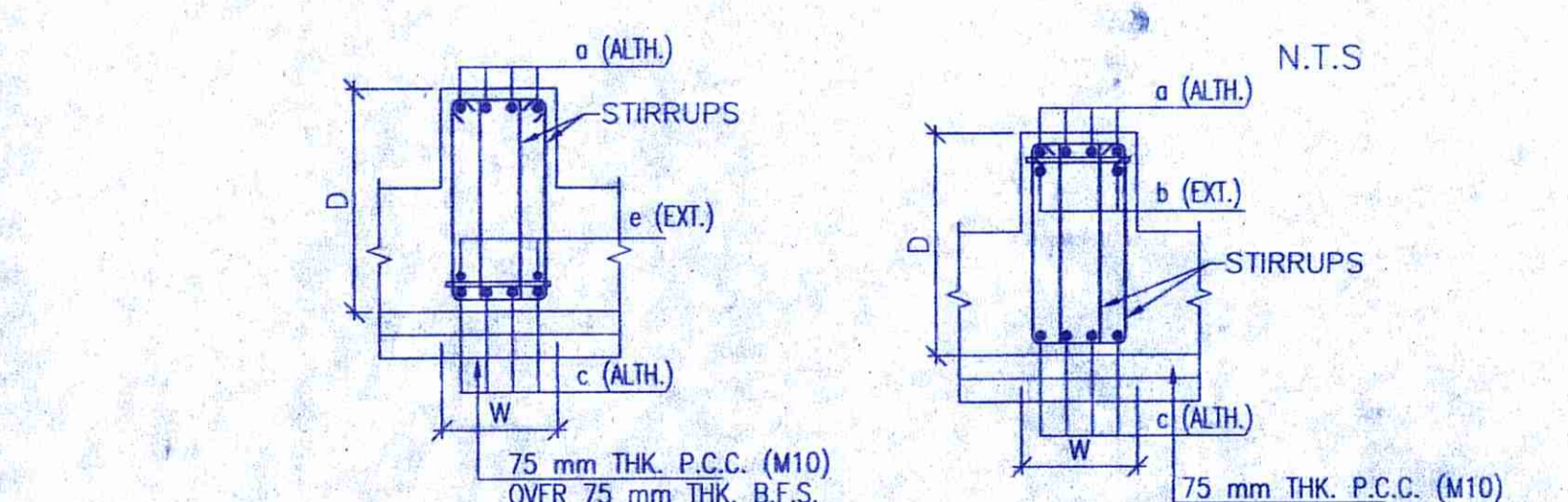
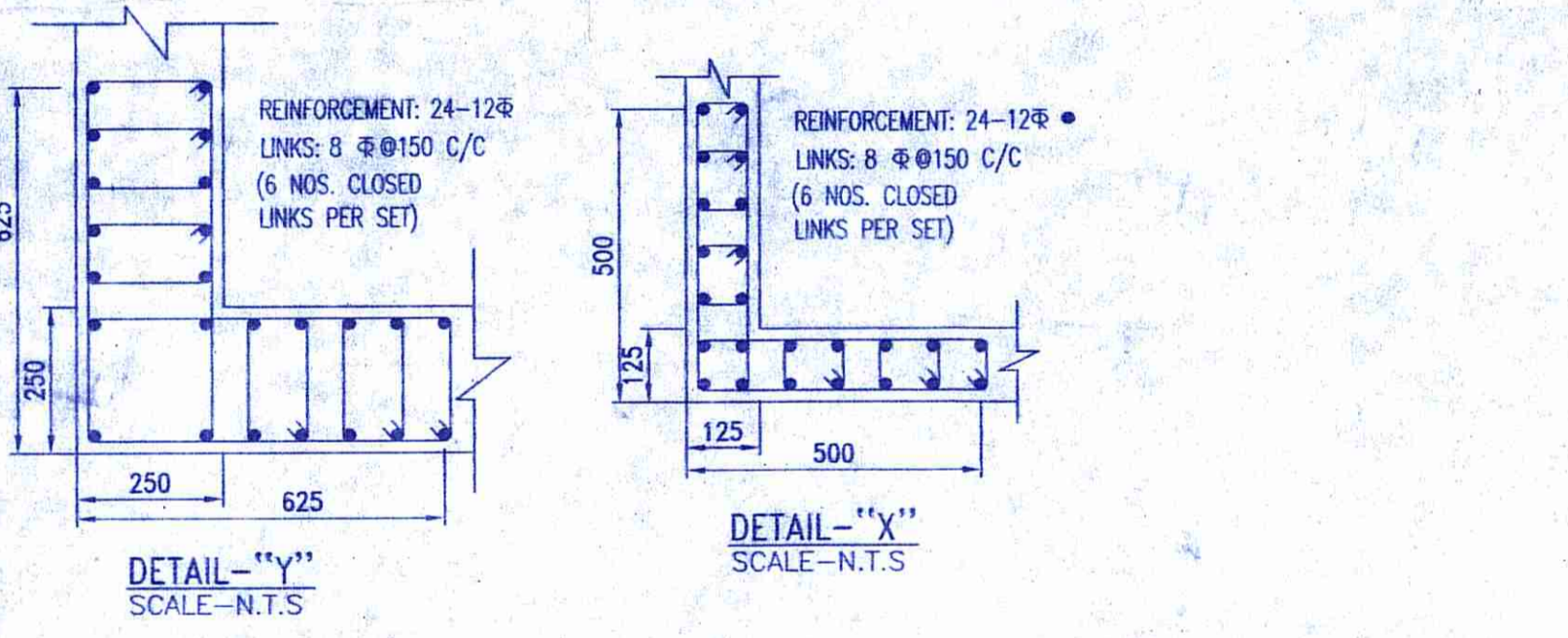
BEAM MARKED	BEAM SIZE WIDTH (W) DEPTH (D) (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS
		ALTHROUGH (a)	EXTRA AT SPAN (b)	ALTHROUGH (c)	EXTRA AT SUPPORT (e)	
RFB1	800 x 550	7-12 ϕ	-	7-12 ϕ	5-12 ϕ	4L-8 ϕ 200 C/C
RFB2	600 x 550	7-12 ϕ	-	7-12 ϕ	-	4L-8 ϕ 150 C/C
RFB3	600 x 550	6-12 ϕ	-	6-12 ϕ	4-12 ϕ	4L-8 ϕ 200 C/C
RFB4	600 x 550	6-12 ϕ	-	6-12 ϕ	-	4L-8 ϕ 200 C/C
RFB5	600 x 550	6-12 ϕ	4-12 ϕ	6-12 ϕ	4-12 ϕ	4L-8 ϕ 200 C/C
RFB6	600 x 550	6-12 ϕ	-	6-12 ϕ	4-16 ϕ	4L-8 ϕ 150 C/C
RFB7	500 x 550	5-12 ϕ	-	5-12 ϕ	5-12 ϕ	4L-8 ϕ 200 C/C
RFB8	500 x 550	5-16 ϕ	-	5-16 ϕ	-	4L-8 ϕ 100 C/C
RFB9	500 x 550	5-12 ϕ	-	5-12 ϕ	-	4L-8 ϕ 200 C/C
RFB10	400 x 550	4-16 ϕ	-	4-16 ϕ	-	4L-8 ϕ 200 C/C
RFB11	400 x 550	4-12 ϕ	-	4-12 ϕ	3-16 ϕ	4L-8 ϕ 200 C/C

SCHEDULE FOR ISOLATED FOUNDATION

UNDER COLUMNS MARKED	FOUNDATION MARKED	NUMBER	FOUNDATION SIZE		DEPTH	FOUNDATION REINFORCEMENT DETAILS			
			WIDTH (m)	LENGTH (m)		BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
C1	F1	01	1.9	2.0	2000	16 ϕ 225 C/C	16 ϕ 225 C/C	8 ϕ 300 C/C	8 ϕ 300 C/C
C15, C20	F2	02	2.4	2.5	2000	16 ϕ 200 C/C	16 ϕ 200 C/C	8 ϕ 300 C/C	8 ϕ 300 C/C
C16, C19	F3	02	2.55	2.55	2000	16 ϕ 150 C/C	16 ϕ 150 C/C	8 ϕ 300 C/C	8 ϕ 300 C/C
C17	F4	01	3.6	3.6	2000	16 ϕ 100 C/C	16 ϕ 100 C/C	8 ϕ 300 C/C	8 ϕ 300 C/C
C5	F5	01	1.85	2.5	2000	16 ϕ 250 C/C	16 ϕ 125 C/C	8 ϕ 300 C/C	8 ϕ 300 C/C
C22	F6	01	2.2	3.5	2000	16 ϕ 250 C/C	20 ϕ 100 C/C	8 ϕ 300 C/C	8 ϕ 300 C/C
C21	F7	01	2.0	2.7	2000	16 ϕ 250 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				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)
F1	01	4500	2000	500	2000	12 ϕ 200 C/C	10 ϕ 250 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C	4500	550	550	5-12 ϕ	-	5-12 ϕ	4L-8 ϕ 200 C/C



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 IMT 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 ϕ 250 C/C.
- CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
i) ISOLATED FOUNDATION : 50 mm
ii) RAFT BEAM & SLAB : 50 mm
iii) COMBINE FOUNDATION : 50 mm
iv) SHEAR WALL : 20 mm
- GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS-456:2000.
- DEVELOPMENT LENGTH 500D FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP 34:1987.
- THE NET SAFE BEARING CAPACITIES FOR ALL ISOLATED FOOTING, COMBINED FOOTING & RAFT FOUNDATION AT DEPTH (-) 2.0m. FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. SUVANKAR CHAUDHURI.
- THE ABOVE 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 SIX (G+5) STORED RESIDENTIAL APARTMENT PLOT NO- 1468(R.S.) 1842(L.R.); L.R. KHATAN NO-2480,2485, J.L. NO-110, MOUZA:- KALIGANJ P.S.-N.T.P.S, DIST. -PASCHIM BURDWAN.

SIGNATURE OF OWNER

SIGNATURE OF CONSULTANT/ARCHITECT

SIGNATURE OF GEO-TECHNICAL ENGINEER
AR. JUI CHATTERJEE, B-ARCH
Registration No. : CA/2021/134352
Ph. - 9434049399, 7585993411
4/16, Subalta Commercial Complex,
City Centre, Durgapur - 713219

SIGNATURE OF STRUCTURAL ENGINEER
SUVANKAR CHAUDHURI
B.C.E. M.L.S. (CIVIL), M.E.
Lic No. : AM/07/1075
Geotechnical Consultant
Chartered Engineer (R-85389)
Structural Engineer
Registered Valuer (VAL-462)
Ph. : 9874677599

SIGNATURE OF THE VETTING AUTHORITY
SUSMITA CHAUDHURY
B.TECH (CIVIL)-WBUT
ME (CONSTRUCTION)-JU
ES16-1/10/JR/SO/1.10
ES16-11/13/MC/664
STER/NRDA/21/00010
CVR/NRDA/10/00175
(M)-869751792/17003201735

STRUCTURAL CONSULTANT:
STRUCTCON ENTERPRISE
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GROUND FLOOR
60B, KALKATER ROAD,
KOLKATA - 700 099
Email-structconenterprise@gmail.com
Ph.-8697517921, 7003201735

As per 2P Letter no. 2836/PB2P
dt. 01.08.2023
Approved Plan No. 12... on Meeting
No. P/2023/22, Date 30.01.2023
Valid upto 14.09.2025
Sapta Sati San
Pradhan 21/08/23
Jumna Gram Panchayat

DRAWING TITLE
FOUNDATION LAYOUT PLAN WITH REINFORCEMENT DETAILS.

SCALE-1:100 OR AS SHOWN
DATE-18.02.2023
SHEET NO.- 1 OF 3 SHEET SIZE-A1