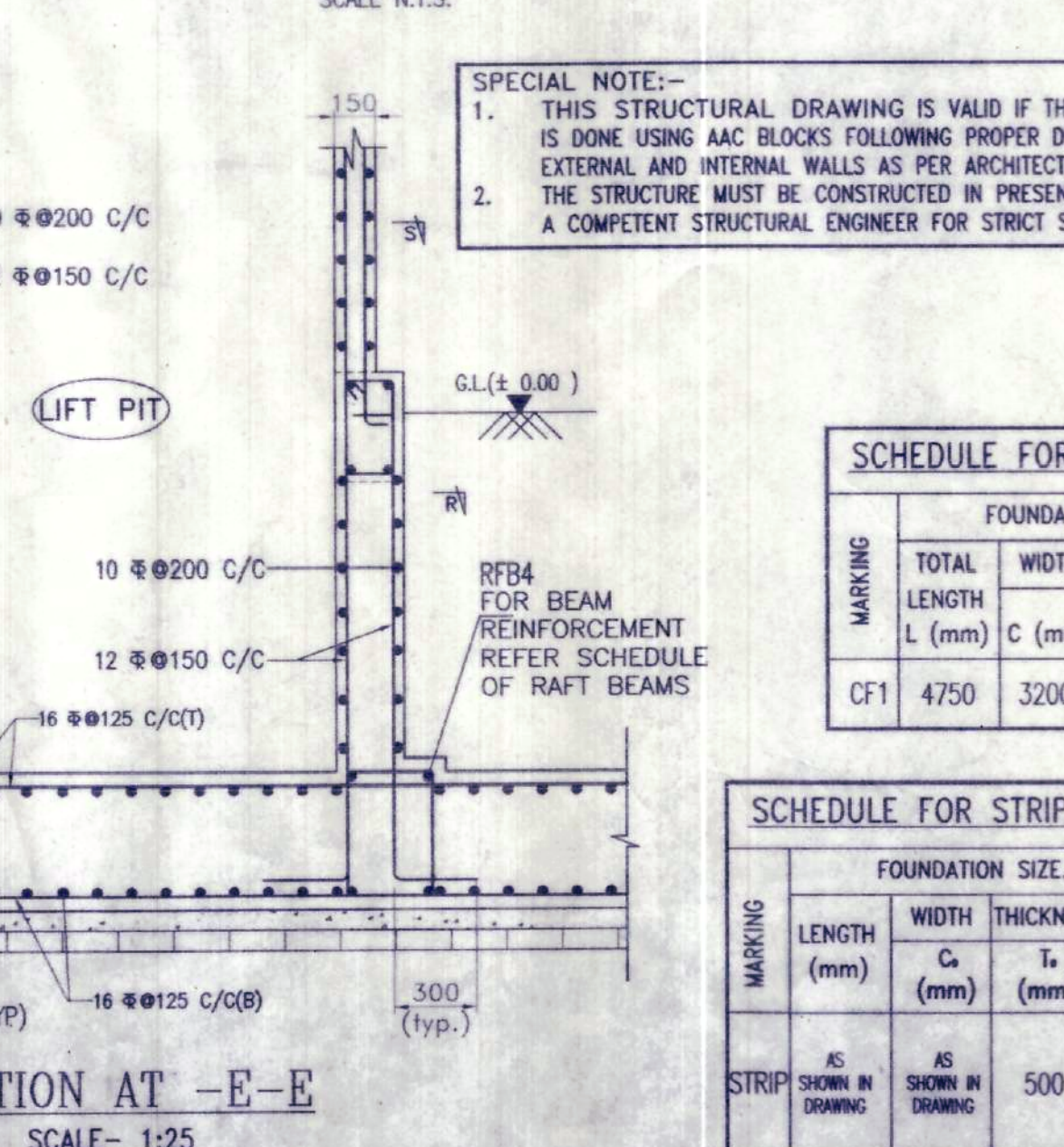
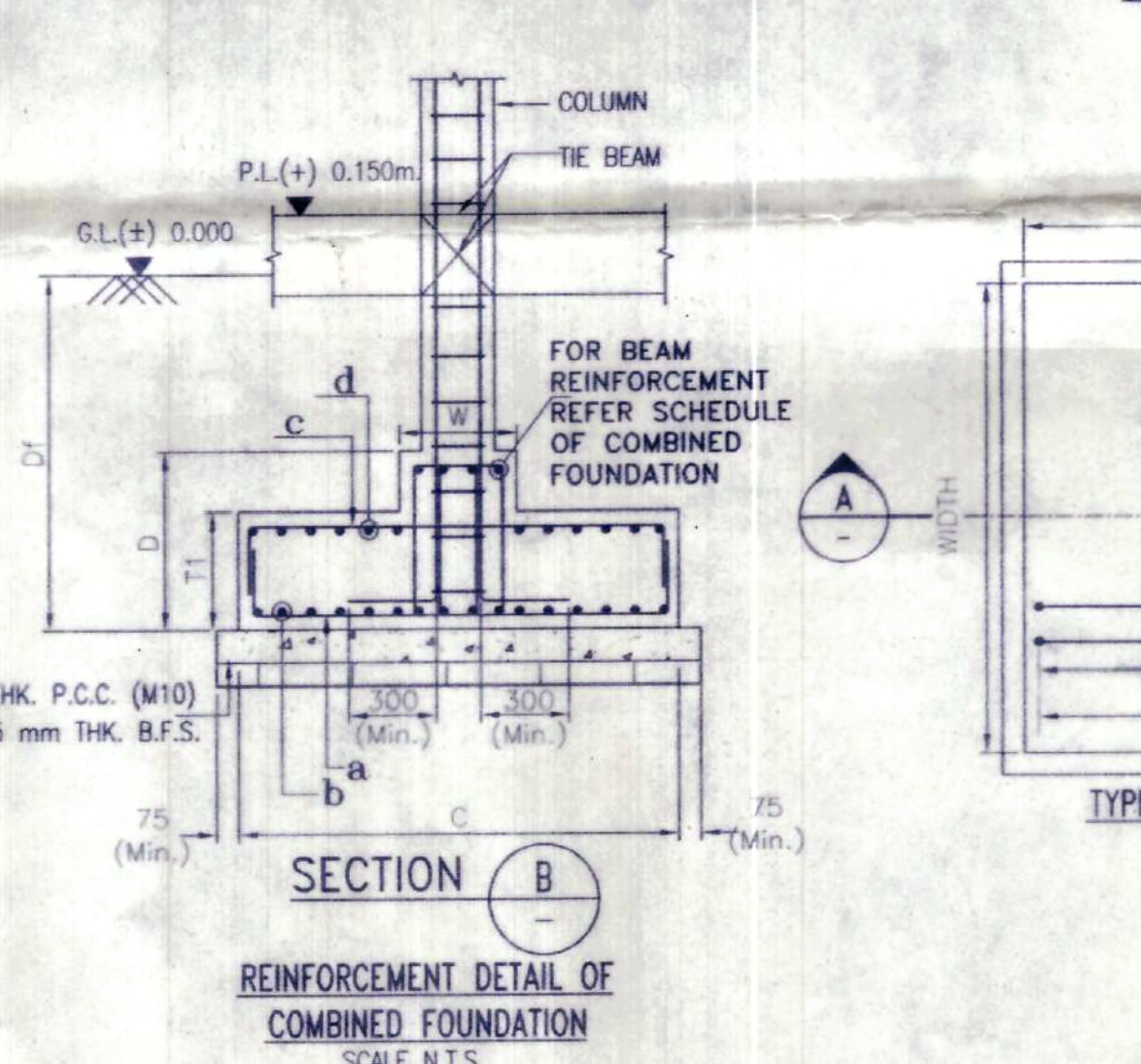
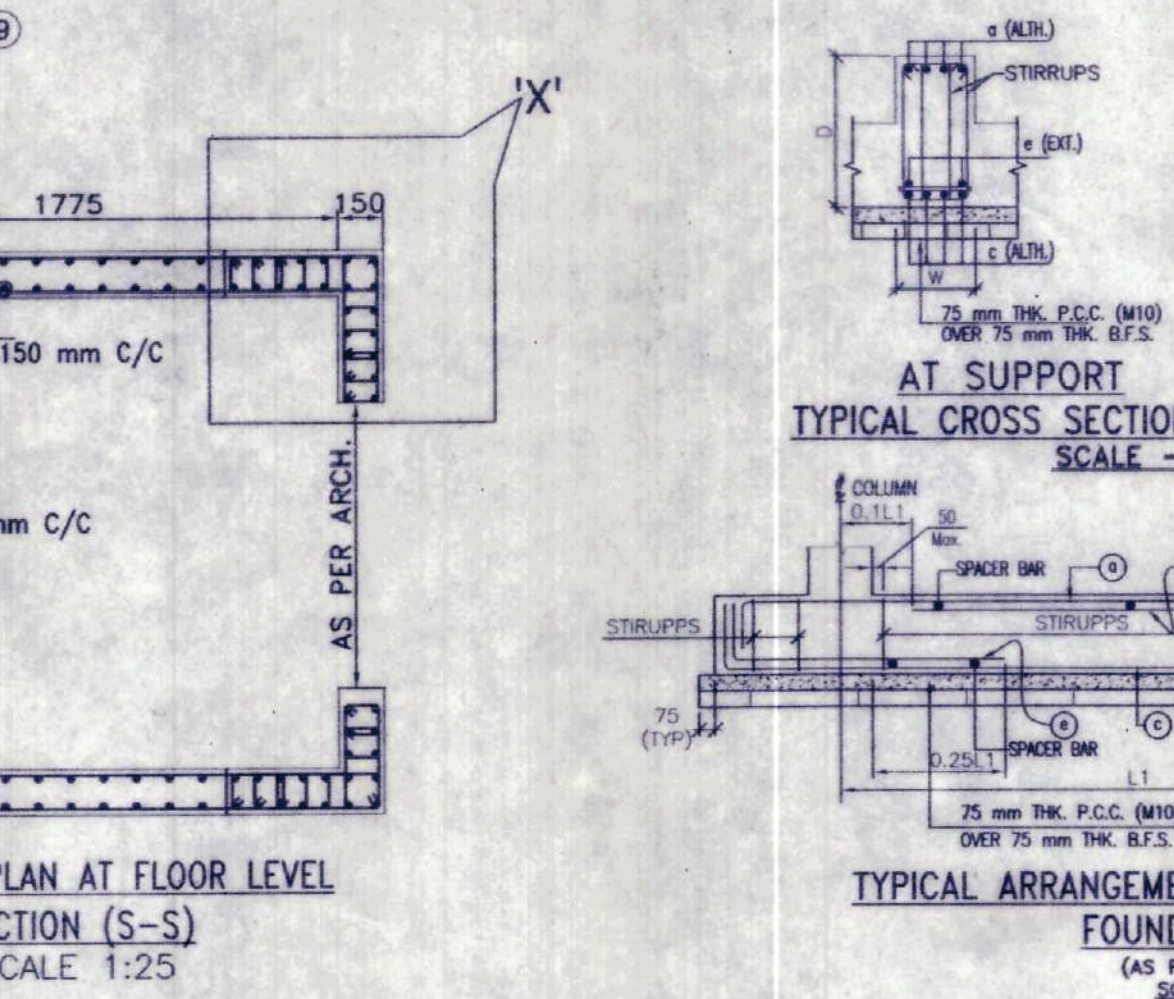
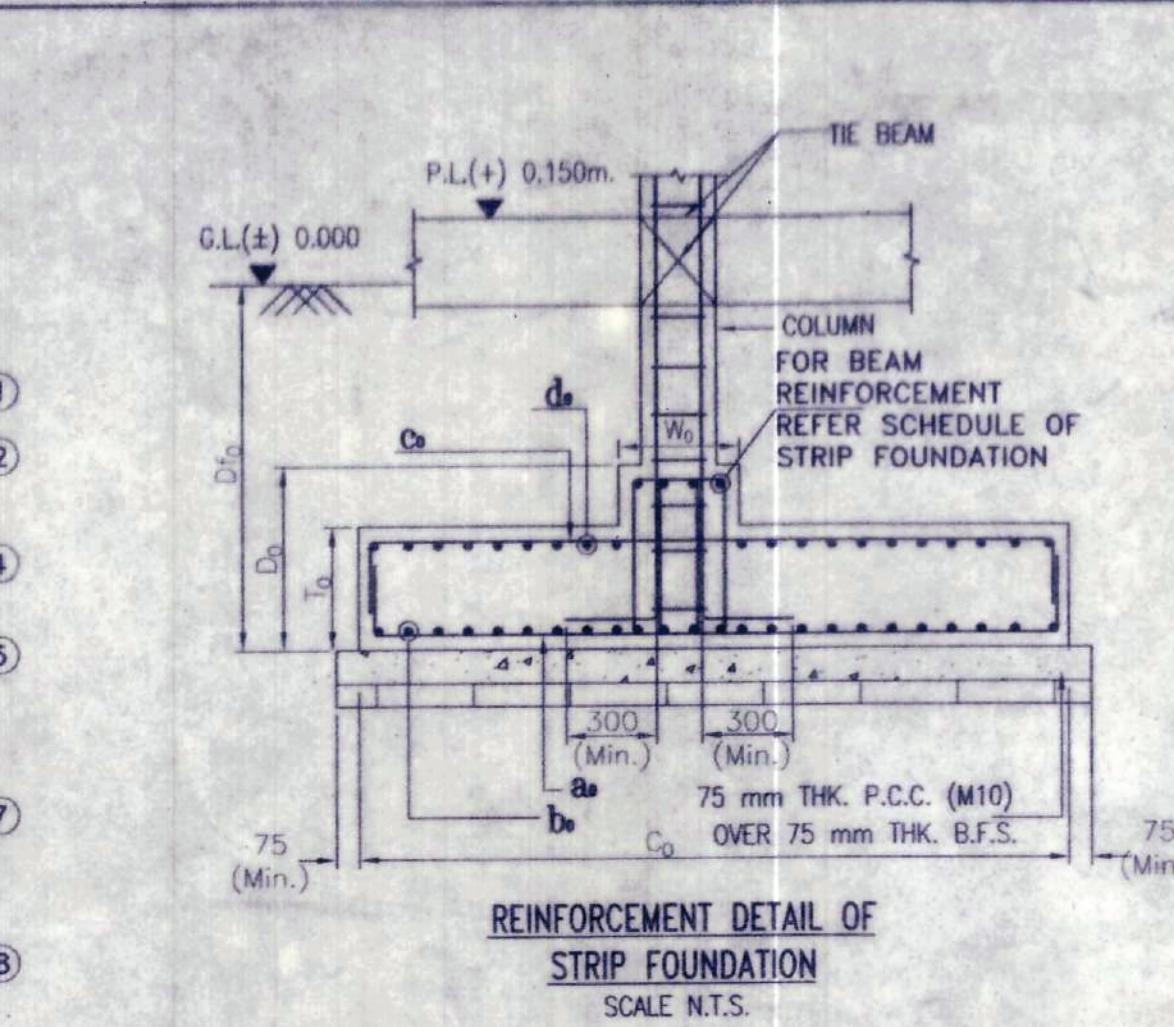
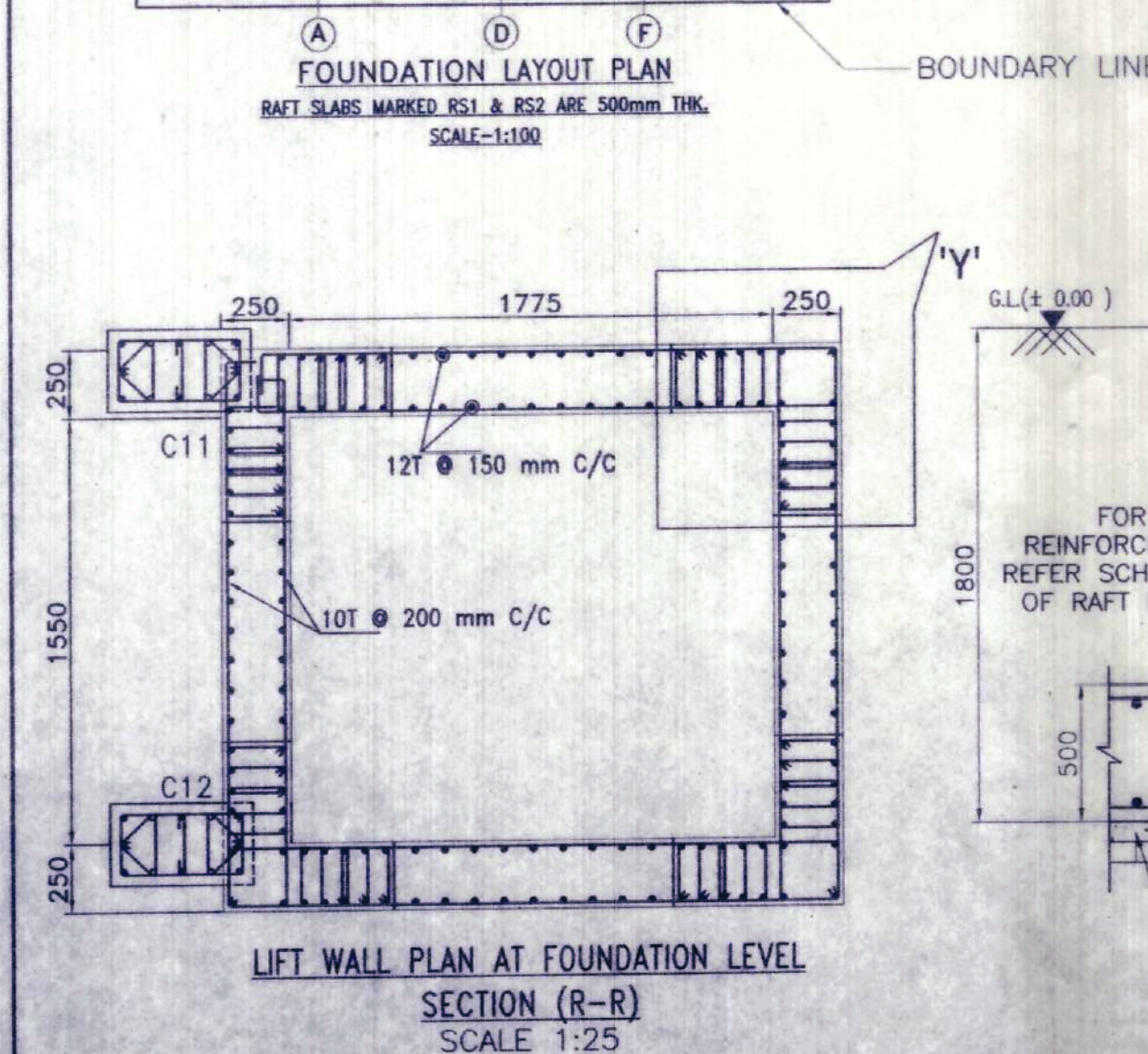
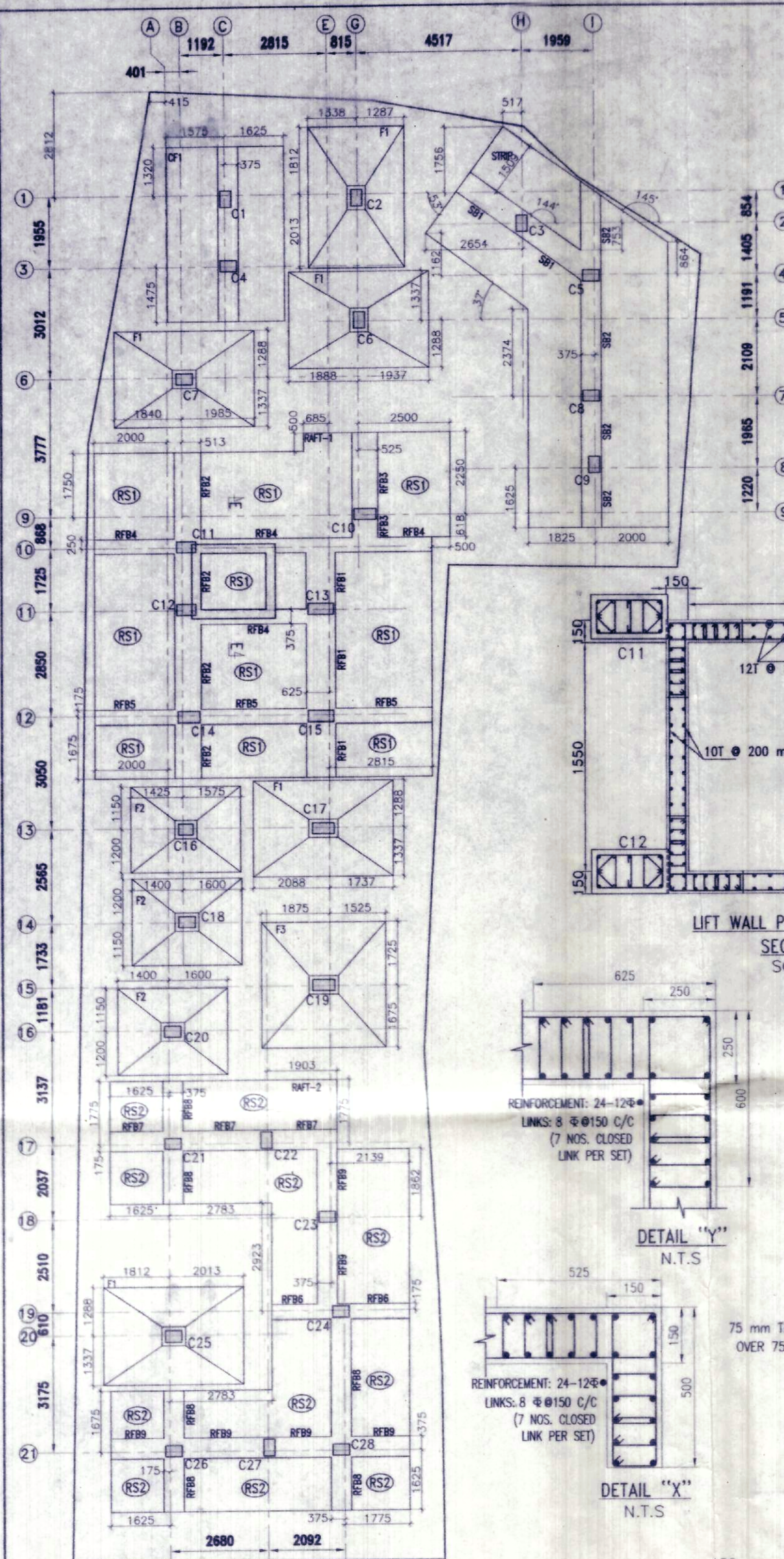


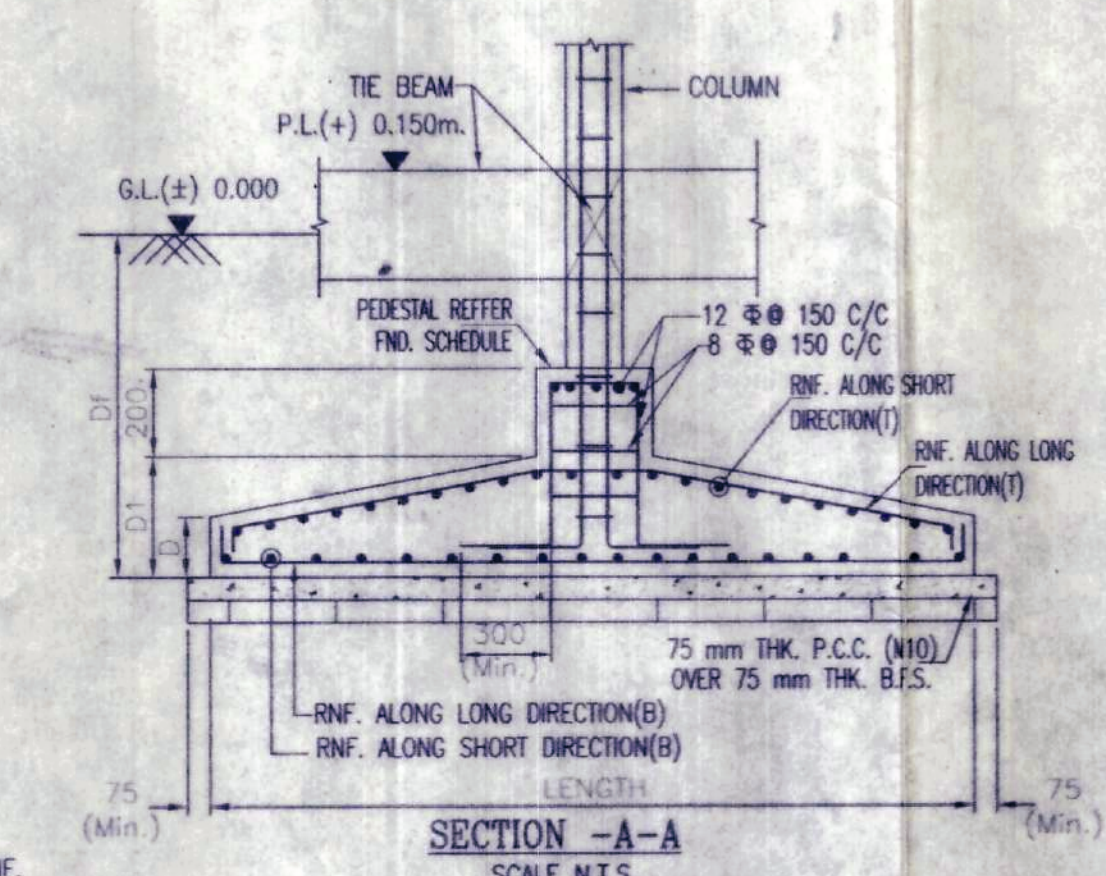


NET SAFE BEARING CAPACITIES CONSIDERED FOR FOUNDATION

TYPE OF FOUNDATION	SIZE	NET SAFE BEARING CAPACITY (T/M ²)
ISOLATED	3.025m x 2.65m	14.6
	3.0m x 2.35m	14.7
	3.40m x 3.40m	14.3
RAFT-1	AS SHOWN IN DRAWING	10.6
RAFT-2	AS SHOWN IN DRAWING	10.0
STRIP	AS SHOWN IN DRAWING	10.5
OF	AS SHOWN IN DRAWING	10.2

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

APPROVED
Vide Memo No. 205/PSB2P.D. 07/06/2023
OF PASCHIM BARDHAMAN ZILA PARISHAD
Additional Executive Officer
Pradhan
Malendighi Gram Panchayat



SCHEDULE OF RAFT BEAMS							
BEAM MARKED	BEAM SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS
	WIDTH (W (mm)	DEPTH (D (mm)	ALTHOUGH (a)	EXTRA AT SPAN (b)	ALTHOUGH (c)	EXTRA AT SUPPORT (e)	
RFB1	800	550	7-12ϕ	2-12ϕ	7-12ϕ	6-16ϕ	4L-10 ϕ100 C/C
RFB2	725	550	7-12ϕ	3-12ϕ	7-20ϕ	6-20ϕ	4L-12 ϕ150 C/C
RFB3	700	550	6-12ϕ	3-12ϕ	6-20ϕ	6-20ϕ	4L-12 ϕ125 C/C
RFB4	400	550	4-16ϕ	-	4-16ϕ	4-16ϕ	4L-10 ϕ125 C/C
RFB5	400	550	4-16ϕ	-	4-16ϕ	4-20ϕ	4L-12 ϕ100 C/C
RFB6	400	550	4-12ϕ	-	4-12ϕ	3-12ϕ	4L-10 ϕ150 C/C
RFB7	550	550	5-12ϕ	-	5-16ϕ	5-12ϕ	4L-8 ϕ150 C/C
RFB8	550	550	5-12ϕ	-	5-12ϕ	5-12ϕ	4L-8 ϕ125 C/C
RFB9	550	550	5-12ϕ	3-12ϕ	5-16ϕ	4-16ϕ	4L-12 ϕ100 C/C

SCHEDULE OF RAFT SLAB					
SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION		REINFORCEMENT ALONG LONGER DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS1	500	16 ϕ 125 C/C	16 ϕ 125 C/C	16 ϕ 125 C/C	16 ϕ 125 C/C
RS2	500	20 ϕ 100 C/C	20 ϕ 100 C/C	20 ϕ 100 C/C	20 ϕ 100 C/C

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
C2,C6,C7,C17,C25	F1	05	3.825	2.650	600	450	1200	12 ϕ 125 C/C	16 ϕ 100 C/C	8 ϕ 300 C/C	8 ϕ 300 C/C
C16,C18,C20	F2	03	3.000	2.350	500	350	1200	12 ϕ 150 C/C	16 ϕ 100 C/C	8 ϕ 300 C/C	8 ϕ 300 C/C
C19	F3	01	3.400	3.400	600	450	1200	16 ϕ 100 C/C	16 ϕ 100 C/C	8 ϕ 300 C/C	8 ϕ 300 C/C

SCHEDULE FOR COMBINED FOUNDATION																
MARKING	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)
					ALONG SHORT DIRECTION (a)	ALONG LONG DIRECTION (b)	ALONG SHORT DIRECTION (c)	ALONG LONG DIRECTION (d)				ALTHOUGH	EXTRA	ALTHOUGH	EXTRA	
CF1	4750	3200	500	1200	16 ϕ 125 C/C	10 ϕ 250 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C	4750	550	550	5-12 ϕ	2-12 ϕ	5-12 ϕ	—	4L-8 ϕ 200 C/C

SCHEDULE FOR STRIP FOUNDATION																	
MARKING	FOUNDATION SIZE				FOUNDATION REINFORCEMENT DETAILS				FOUNDATION BEAM SIZE			FOUNDATION BEAM REINFORCEMENT DETAIL					
	LENGTH (mm)	WIDTH C _c (mm)	THICKNESS T _r (mm)	DEPTH D _f (mm)	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		LENGTH (mm)	WIDTH W _c (mm)	DEPTH D _r (mm)	BEAM MARKED	BOTTOM REINFORCEMENT		TOP REINFORCEMENT		STIRRUPS SPACING (mm)
					ALONG SHORT DIRECTION (a _s)	ALONG LONG DIRECTION (a _l)	ALONG SHORT DIRECTION (c _s)	ALONG LONG DIRECTION (c _l)					ALTHROUGH	EXTRA	ALTHROUGH	EXTRA	
STRIP	AS SHOWN IN DRAWING	AS SHOWN IN DRAWING	500	1200	20 ϕ 125 C/C	20 ϕ 125 C/C	8 ϕ 250 C/C	8 ϕ 250 C/C	AS SHOWN IN DRAWING AS SHOWN IN DRAWING	650	550	SB1	5-16 ϕ	5-16 ϕ	5-16 ϕ	-	4L-8 ϕ150 C/C
										550	550	SB2	5-16 ϕ	4-16 ϕ	5-16 ϕ	-	4L-8 ϕ125 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 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
iv) COMBINED FOUNDATION : 50 mm
v) STRIP 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 ALL ISOLATED, COMBINED, STRIP & RAFT-2 FOOTINGS AT DEPTH (-) 1.2m FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. ASIM SARKAR.
- THE NET SAFE BEARING CAPACITIES FOR RAFT-1 FOUNDATION AT DEPTH (-) 1.8m FROM G.L. HAS BEEN CONSIDERED AS MENTIONED IN DRAWING IN TUNE WITH THE SOIL REPORT PREPARED BY MR. ASIM SARKAR.
- 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 PROPOSED G+6 STORIED RESIDENTIAL APARTMENT BUILDING OF DUTTA & CO. OVER R.S PLOT NO- 1471, L.R PLOT NO-1545, KHATIAN L.R NO- 385, 059, 483, 5413, 5414, 5415, 2717, MOUZA- ARRAH, J.L NO- 091, P.S.- KANKSA.

OWNER'S NAME- 1) BUDDHADEB MONDAL
2) UTTAM MONDAL 3) JAMINI MONDAL
4) TAPATI MONDAL 5) SADHIN MONDAL
6) CHIROSHREE MONDAL 7) CHANDI BAURI

SIGNATURE OF OWNER

SIGNATURE OF L.B.S./ENGINEER/ARCHITECT

Ar. VIJAYA SUNDAR
COA Registered
CA/2021/134276
9332802166 / 9476426106

SIGNATURE OF GEOTECHNICAL ENGINEER

ASIM SARKAR
BCE, ME (SOIL), M/IGS
EMERGED GEOTECHNICAL ENGINEER
K.M.C. No.: CLASS-1/2

SIGNATURE OF STRUCTURAL ENGINEER

SUSMITA CHOUDHURY
B.TECH (CIVIL)-WBUTU
ME (CONSTRUCTION)-IIT
ESR-1/18/PROV/130
ESSE-11/KMC/664
STER/NKDA/21/00010
CVR/NKDA/10/00175
(M)- 6697517321/7003201735

SIGNATURE OF THE VETTING AUTHORITY

CHECKED BY
DR. DIPANKAR CHANDRA
STRUCTURAL ENGINEER
PROFESSIONAL MEMBER I.E.S.
CIVIL ENGINEERING SOCIETY
JALPAIGURI
MAY 2023
CORP: 02525052 & 0433093143
104, BELUR ROAD, KOLKATA-700016
PHONE: 9830810000
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STRUCTURAL CONSULTANT:

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Email-structconenterprise@gmail.com
Ph.-8697517321, 7003201735

DRAWING TITLE
1. FOUNDATION LAYOUT PLAN & REINFORCEMENT DETAILS.
SCALE-1:100 OR AS SHOWN
DATE-03.07.2022
SHEET NO. - 1 OF 4
SHEET SIZE - A1