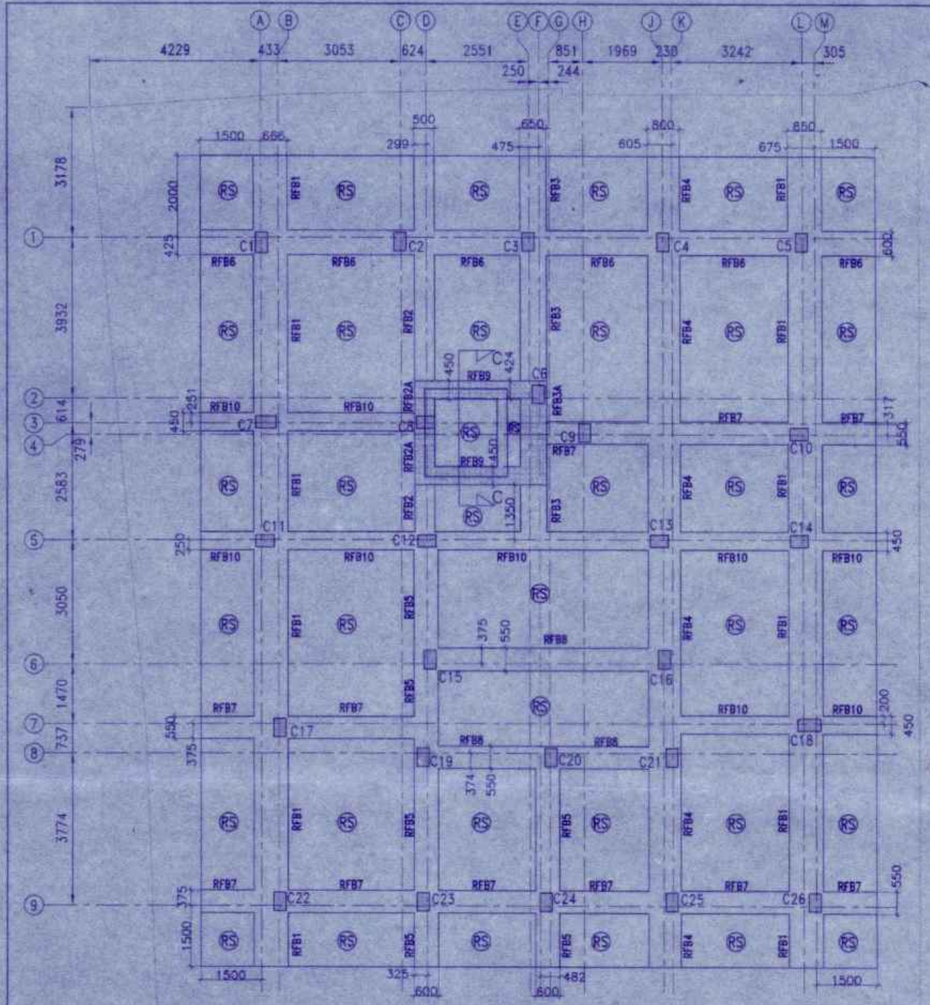
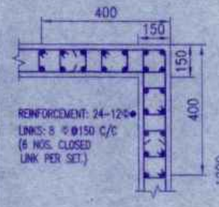
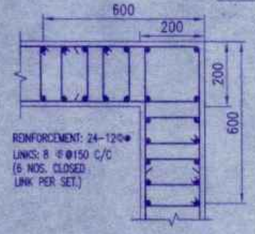


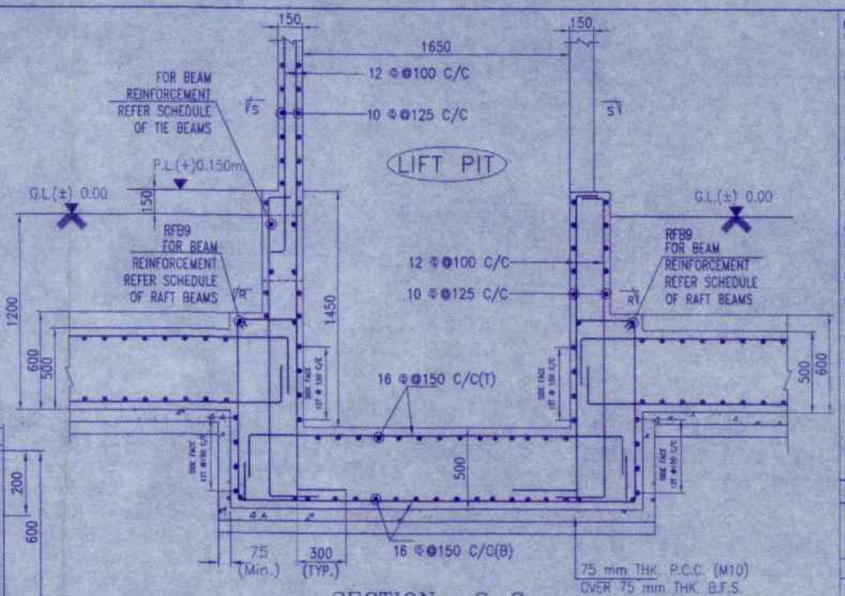
FOUNDATION LAYOUT PLAN (RS MARKED SLAB 500mm THIK.)
SCALE-1:100



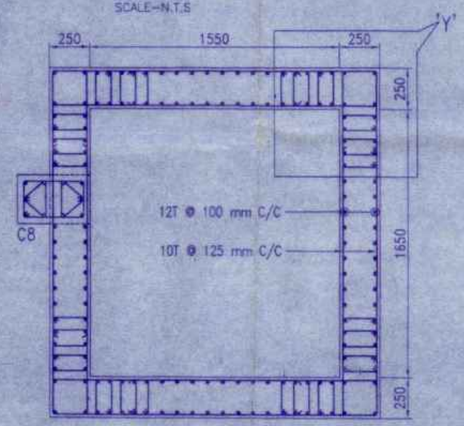
DETAIL "X"
SCALE-N.T.S



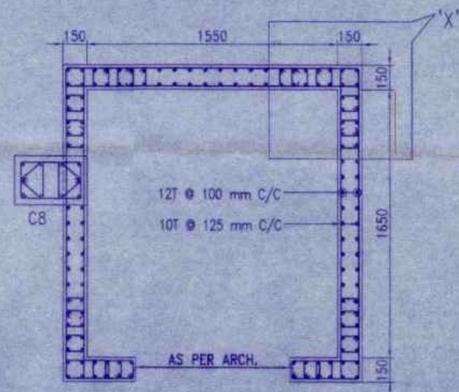
DETAIL "Y"
SCALE-N.T.S



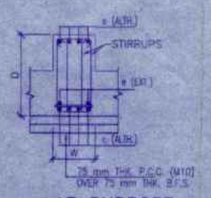
SECTION -C-C
SCALE- 1:25



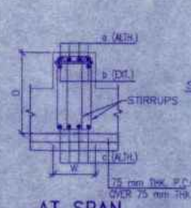
LIFT WALL PLAN AT BASE LEVEL
SECTION (R-R)
SCALE 1:25



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

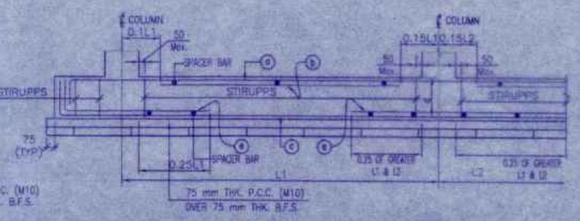


AT SUPPORT



AT SPAN

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 BEAMS

BEAM MARKED	BEAM SIZE WIDTH (W) (mm)	BEAM SIZE DEPTH (D) (mm)	TOP REINORCEMENT ALTHROUGH (a)	TOP REINORCEMENT EXTRA AT SPAN (b)	BOTTOM REINORCEMENT ALTHROUGH (c)	BOTTOM REINORCEMENT EXTRA AT SUPPORT (e)	STIRRUPS	SIDE FACE REINF.
RFB1	850	600	5-20 Φ +4-16 Φ	-	7-20 Φ +2-25 Φ	6-20 Φ	4L-10 Φ@100 C/C	-
RFB2	500	600	5-25 Φ	4-25 Φ	5-25 Φ +2-25 Φ	4-25 Φ	4L-10 Φ@100 C/C	-
RFB2A	500	1200	5-25 Φ +4-25 Φ	-	LAYER-1 5-25 Φ +2-25 Φ; LAYER-2 4-25 Φ	-	4L-10 Φ@100 C/C	12 Φ@150 C/C
RFB3	650	600	6-20 Φ	2-20 Φ	6-25 Φ +3-25 Φ	-	6L-10 Φ@100 C/C	-
RFB3A	650	1200	6-20 Φ +2-20 Φ	-	6-25 Φ +3-25 Φ	-	6L-10 Φ@100 C/C	12 Φ@150 C/C
RFB4	800	600	5-20 Φ +4-16 Φ	-	7-20 Φ +2-25 Φ	6-20 Φ	4L-10 Φ@150 C/C	-
RFB5	600	600	6-16 Φ	3-16 Φ	6-20 Φ	2-16 Φ	4L-8 Φ@100 C/C	-
RFB6	600	600	6-20 Φ	6-25 Φ	6-25 Φ +3-25 Φ	2-25 Φ	6L-10 Φ@100 C/C	-
RFB7	550	600	5-25 Φ	4-25 Φ	5-25 Φ +2-25 Φ	4-25 Φ	4L-10 Φ@100 C/C	-
RFB8	550	600	5-16 Φ	-	5-16 Φ	-	4L-8 Φ@200 C/C	-
RFB9	450	1200	4-20 Φ +2-16 Φ	-	4-20 Φ +2-16 Φ	-	4L-10 Φ@100 C/C	12 Φ@150 C/C
RFB10	450	600	4-25 Φ	3-20 Φ	4-25 Φ	3-20 Φ	4L-10 Φ@100 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.

SCHEDULE OF RAFT SLAB

SLAB MARKED	SLAB THICKNESS (mm)	REINFORCEMENT ALONG SHORTER DIRECTION: BOTTOM	REINFORCEMENT ALONG SHORTER DIRECTION: TOP	REINFORCEMENT ALONG LONGER DIRECTION: BOTTOM	REINFORCEMENT ALONG LONGER DIRECTION: TOP
RS	500	16 Φ@150 C/C	16 Φ@150 C/C	16 Φ@150 C/C	16 Φ@150 C/C

NOTES:-
1. UNLESS OTHERWISE STATED ALL CONSTRUCTION ACTIVITIES SHALL BE CARRIED OUT CONFORMING TO RELEVANT (INDIAN) STANDARD CODES OF PRACTICE.
2. 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).
3. ALL STRUCTURAL DRAWINGS SHALL BE READ ALONG WITH THIS DRAWING AS WELL AS RELEVANT ARCHITECTURAL DRAWINGS.
4. ANY DISCREPANCY IN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
5. UNLESS OTHERWISE SPECIFIED ALL REINFORCEMENT TO BE USED SHALL BE TMT BARS OF GRADE Fe-500/500 D CONFORMING TO IS-1786-2008.
6. ADEQUATE CHAIR BARS TO BE PROVIDED TO KEEP THE TOP REINFORCEMENT IN PROPER POSITION.
7. VIBRATOR SHALL BE USED FOR PROPER COMPACTION OF CONCRETE AND CURING SHALL BE DONE PROPERLY.
8. UNLESS OTHERWISE SPECIFIED DISTRIBUTION REINFORCEMENT SHALL BE 8 T @ 250 C/C.
9. CONCRETE CLEAR COVER SHALL BE AS FOLLOWS:
   i)RAFT BEAM & SLAB : 50 mm
   ii)SHEAR WALL : 20 mm
10. GRADE OF CONCRETE FOR SUBSTRUCTURE WILL BE M25 AS PER IS:456:2000.
11. DEVELOPMENT LENGTH 50XD FOR LAP & SPLICES SHOULD BE PROVIDED AS PER THE PROVISIONS LAID DOWN IN SP34:1987.
12. THE NET SAFE BEARING CAPACITY OF THE RAFT SHOWN IN THE DRAWING AT DEPTH (-)1.2 m. FROM G.L. HAVE BEEN CONSIDERED 10.3 T/SQM. THIS MUST BE ENSURED AT SITE UNDER THE SUPERVISION OF A COMPETENT GEO-TECHNICAL ENGINEER FOR VALIDITY OF THIS DRAWING.
13. 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+V STORIED RESIDENTIAL BUILDING OVER-R.S PLOT NO. 1443, 1445, 1446, L.R PLOT NO. 1815,1816, 1817, L.R KH. NO. 2630, 913, J.L NO. 110, MOUZA KALIGANJ, UNDER JEMUA G.P, P.S NEW TOWNSHIP, P.O ARRAH, DIST. PASCHIM BARDHAMAN, PIN-713212.

SIGNATURE OF OWNER

Gouja Barmoal
Mithu Guha

SIGNATURE OF ARCHITECT / L.B.S

28/9/23

AR. VIJAYA SINGH MAZUMDER
CONSULTING ARCHITECT
COA REGISTERED
CA/2021/134278

Ar. VIJAYA SINGH MAZUMDER
COA Registered
CA/2021/134278
9933803186 / 9476426106

SIGNATURE OF PANCHAYET PRADHAN

Approved Plan No. 30 on Meeting No. 08/2022-24 Date 15/12/2023
Valid upto 04/03/2024

Sapta Sati Sen
Pradhan
Jemua Gram Panchayat

SIGNATURE OF GEO-TECHNICAL ENGINEER

ASIM SARKAR
BCE, ME(SOIL), M.TECH (STRUCTURE), MIGS, MIE
EMPANELLED GEOTECHNICAL ENGINEER
KMC NO.- CLASS I / 2

SIGNATURE OF STRUCTURAL ENGINEER

SUSMITA CHOUDHURY
B.TECH (CIVIL) WBUT
ME (CONSTRUCTION) JU
ESR-I/R/PSON/120
ESE-II/KMC/664
STER/NKDA/21/00010
CER/NKDA/10/00928
DI: 6357517321/7003201735

24/9/23

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VETTED

DR. DIPANKAR CHAKRAVORTY
STRUCTURAL ENGINEERING DIVISION
PROFESSOR & FORMER HEAD
CIVIL ENGINEERING DEPARTMENT
JADAVPUR UNIVERSITY
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Structcon

DRAWING TITLE

FOUNDATION LAYOUT PLAN WITH REINFORCEMENT DETAILS

SCALE - 1:100, DETAILS AS SHOWN
DATE - 24.09.2023

SHEET NO. - 1 OF 4 | SHEET SIZE - A2