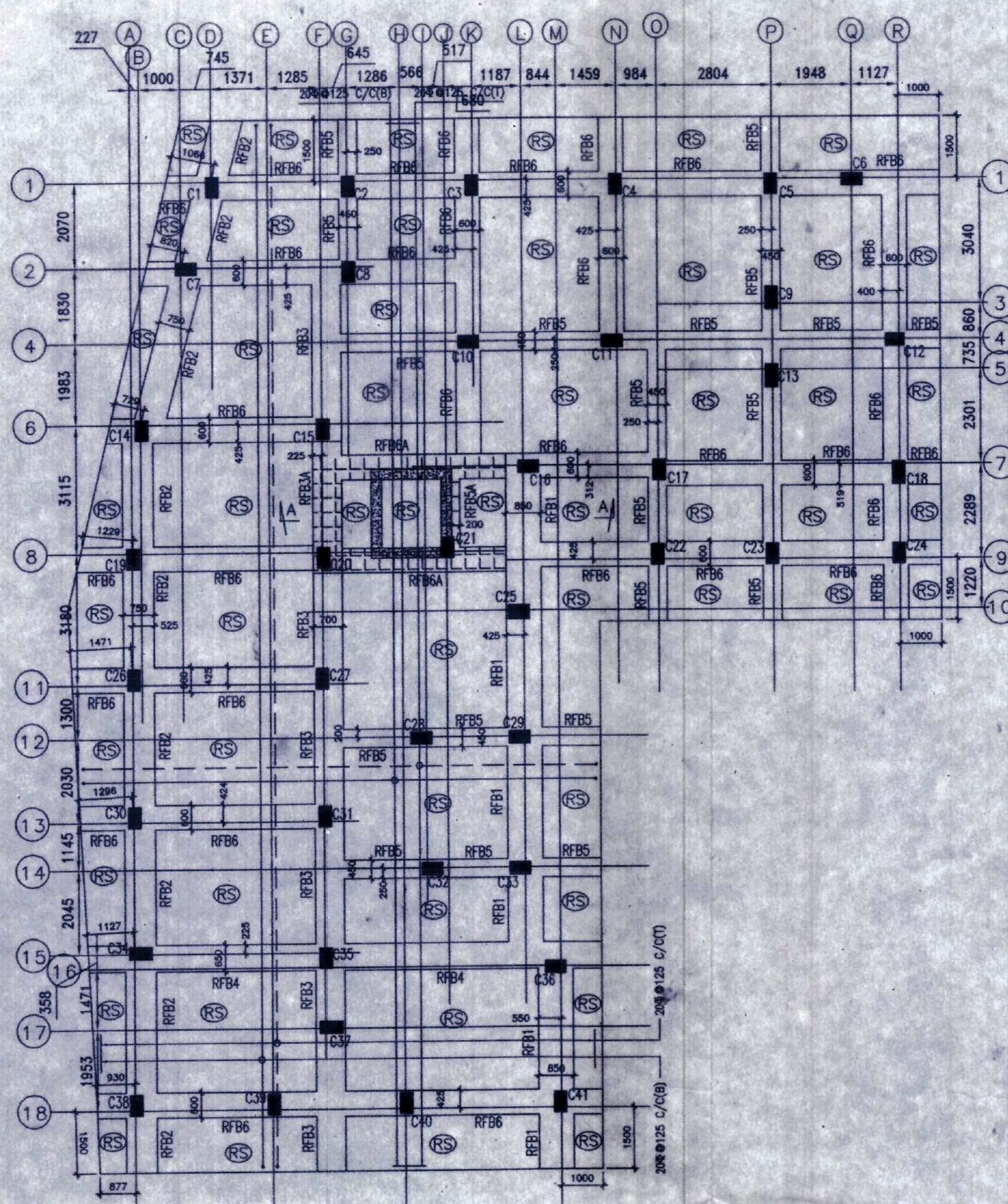
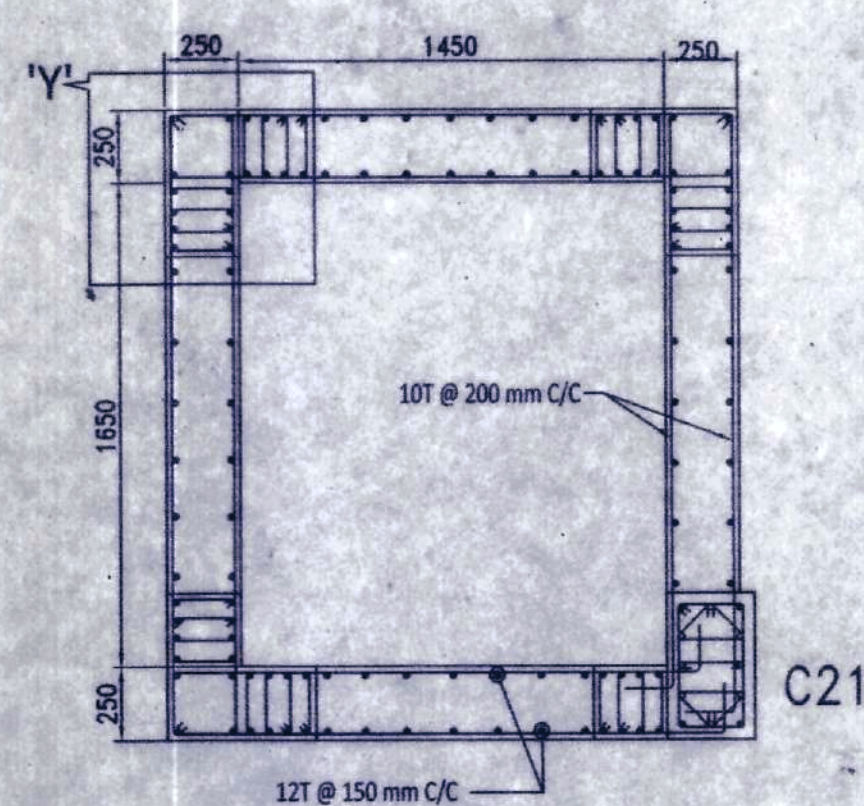
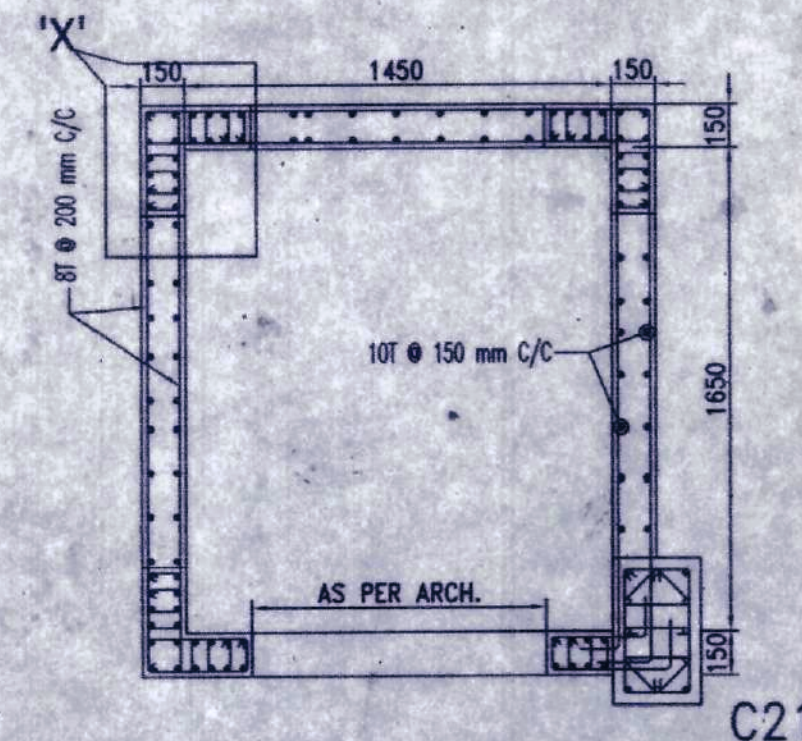




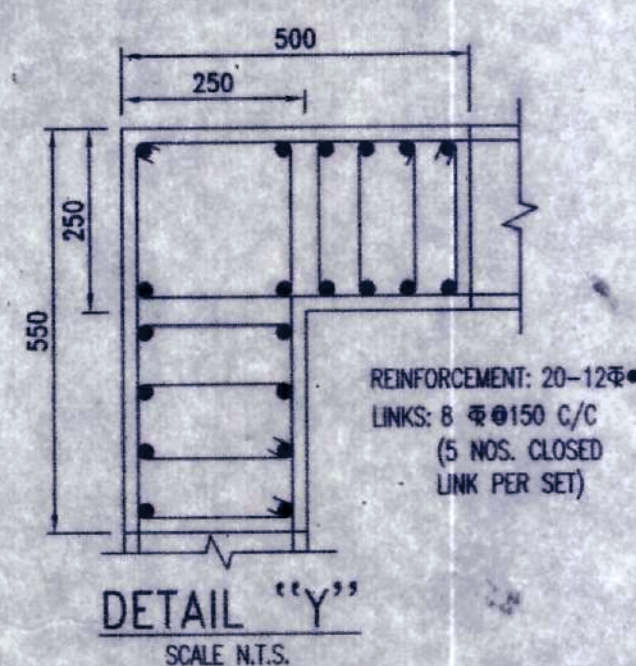
FOUNDATION LAYOUT PLAN
RAFT SLAB (RS) THICKNESS 500mm
SCALE-1:100



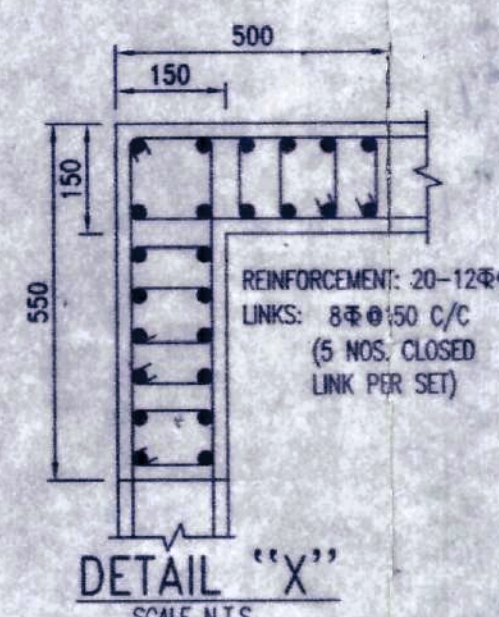
LIFT WALL PLAN AT BASE LEVEL
SECTION (R-R)
SCALE 1:25



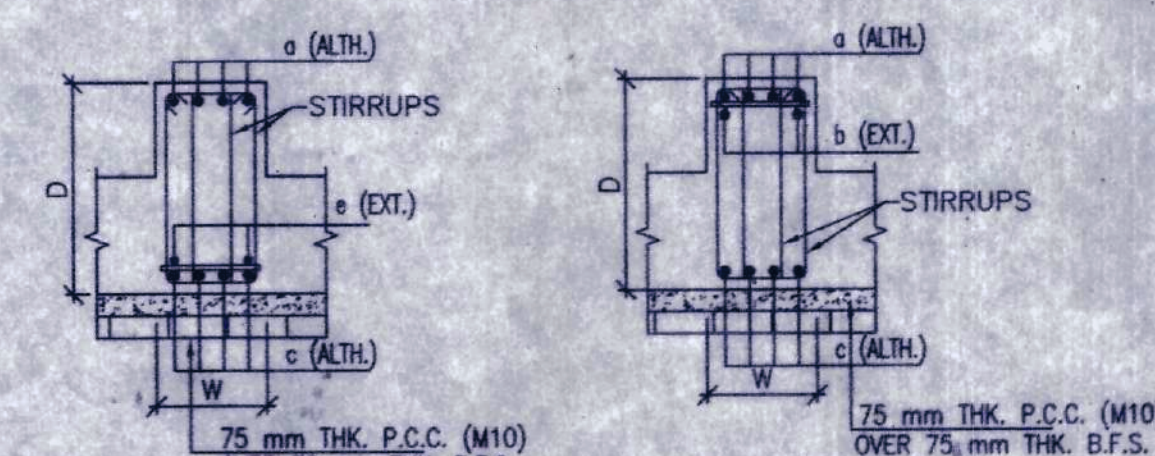
LIFT WALL PLAN AT FLOOR LEVEL
SECTION (S-S)
SCALE 1:25



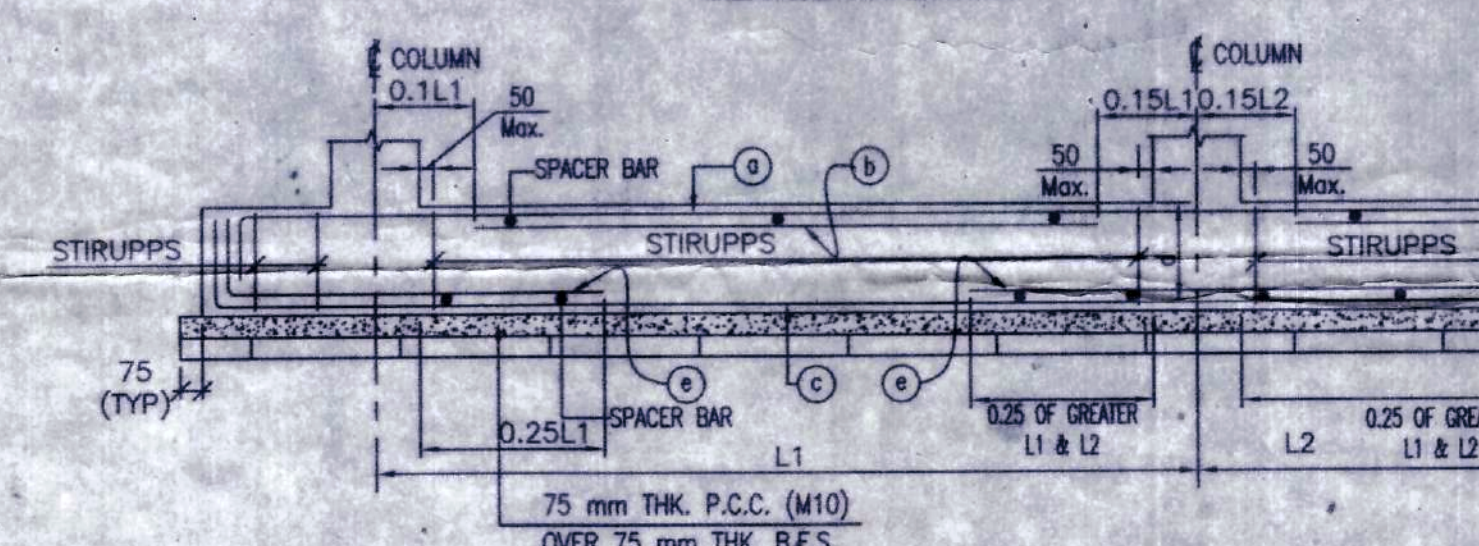
DETAIL "Y"
SCALE N.T.S.



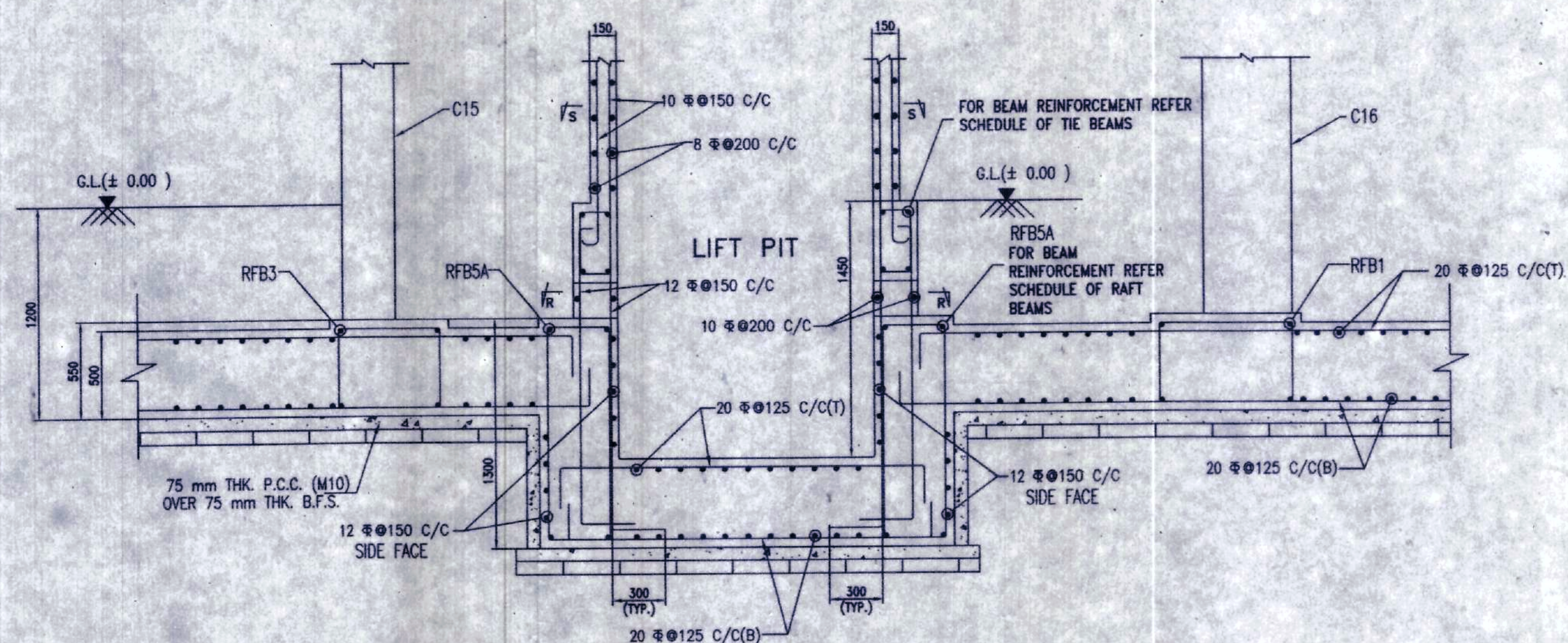
DETAIL "X"
SCALE N.T.S.



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)



SECTION -A-A
SCALE- 1:25

SCHEDULE OF RAFT BEAMS									
BEAM MARKED	BEAM SIZE WIDTH (mm) DEPTH (mm)	TOP REINFORCEMENT		BOTTOM REINFORCEMENT		STIRRUPS	SIDE FACE REINFORCEMENT		
		ALTHOUGH	EXTRA AT SPAN	ALTHOUGH	EXTRA AT SUPPORT				
RFB1	850 550	6-16	2-16	6-16	3-16	4L-8 @ 100 C/C	-		
RFB2	750 550	5-20	3-16	5-20	3-20	4L-8 @ 100 C/C	-		
RFB3	700 550	5-16	3-16	5-16	3-20	4L-8 @ 100 C/C	-		
RFB4	650 550	5-16	2-16	5-16	2-20	4L-8 @ 100 C/C	-		
RFB5	450 550	4-20	3-16	4-20	3-20	4L-8 @ 100 C/C	-		
RFB6	450 1300	4-20	3-16	4-20	3-20	4L-8 @ 100 C/C	12 @ 150 C/C		
RFB7	600 550	6-16	3-16	6-16	3-20	4L-8 @ 100 C/C	-		
RFB8	800 1300	6-16	3-16	6-16	3-20	4L-8 @ 100 C/C	12 @ 150 C/C		

SCHEDULE OF RAFT SLAB					
SLAB MKD	SLAB THICKNESS (mm)	ALONG X-DIRECTION		ALONG Y-DIRECTION	
		BOTTOM	TOP	BOTTOM	TOP
RS	500	20 @ 125 C/C	20 @ 125 C/C	20 @ 125 C/C	20 @ 125 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:
(RAFT BEAM & SLAB : 50 mm)
(LIFT 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 CAPACITY OF THE RAFT SHOWN IN THE DRAWING AT DEPTH (-) 1.2m FROM G.L. HAVE BEEN CONSIDERED 10.0 T/SQ.M. IN TUNE WITH THE SOIL REPORT PREPARED BY KANCHAN ROY CHOWDHURY. 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.

SPECIAL NOTE:
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.

TITLE
STRUCTURAL DRAWING OF PROPOSED PLAN OF G+5 STORIED RESIDENTIAL (APARTMENT) BUILDING OF SHREE SHYAM BUILDERS AND DEVELOPERS OVER L.R. PLOT NO. - 1657, 1658, L.R. KHATIAN NO.-4082, 323, 5079, 5080, R.S. PLOT NO.- 1567, J.L. NO- 91, MOUZA -ARRAH, P.S. KANKSHA, DIST- PASCHIM BARDHAMAN.

LAND OWNERS : 1) SRI. MANIK CHAND MAHARAJ
2) SMT. DEBJANI GORAI
3) SRI. SUKUMAR MANDAL
4) SMT. MUKTI MANDAL

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

Ar. VIJAYA SINGH MAZUMDER
COA Registered
CA/2021/134278
9332902168 / 9476426103
DMC REGISTERED
LIC NO. - DMC/BPD/60
9332902168, 9476426103

SIGNATURE OF GEOTECHNICAL ENGINEER

THIS IS TO CERTIFY THAT THE SOIL TEST HAS BEEN PERFORMED BY ME FOR THIS PROJECT

CERTIFICATE OF STRUCTURAL ENGINEER

THE STRUCTURAL DESIGN AND DRAWING OF BOTH FOUNDATION AND SUPERSTRUCTURE OF THE BUILDING HAS BEEN MADE BY ME CONSIDERING ALL POSSIBLE LOADS INCLUDING THE SEISMIC LOAD AS PER THE NATIONAL BUILDING CODE OF INDIA AND CERTIFIED THAT IT IS SAFE AND STABLE IN ALL RESPECT.

SIGNATURE OF THE VETTING AUTHORITY

CHECKED & VETTED

DR. DIPANKAR CHAKRABORTY
STRUCTURAL ENGINEERING DIVISION
PROFESSOR & FOUNDER HEAD
CIVIL ENGINEERING DEPARTMENT
JALPAIGURI UNIVERSITY
JALPAIGURI, WEST BENGAL
M.TECH (ITGP) GOLD MEDALIST
Ph.D. (IT)
ICP# 035-2467-880
MCAE# 035169502 & 033063143
Email: dr.dipankar@ju.ac.in

SIGNATURE OF PANCHAYET PRADHAN

APPROVED
Vide Memo No. 475/Ps02/P. dt. 22/12/2021
DISTRICT ENGINEER OF PASCHIM BARDHAMAN, ZILA PARISHAD
Mal. Executive
Officer
Pradhar 25/04/2022

CERTIFICATE OF OWNER

Malandighi Gram Panchayat
Kuldiha, Durgapur-713212

DRAWING TITLE

FOUNDATION LAYOUT PLAN & REINFORCEMENT DETAILS.

SCALE-1:100 OR AS SHOWN

DATE- 20.04.2021

SHEET NO. - 1 OF 4

