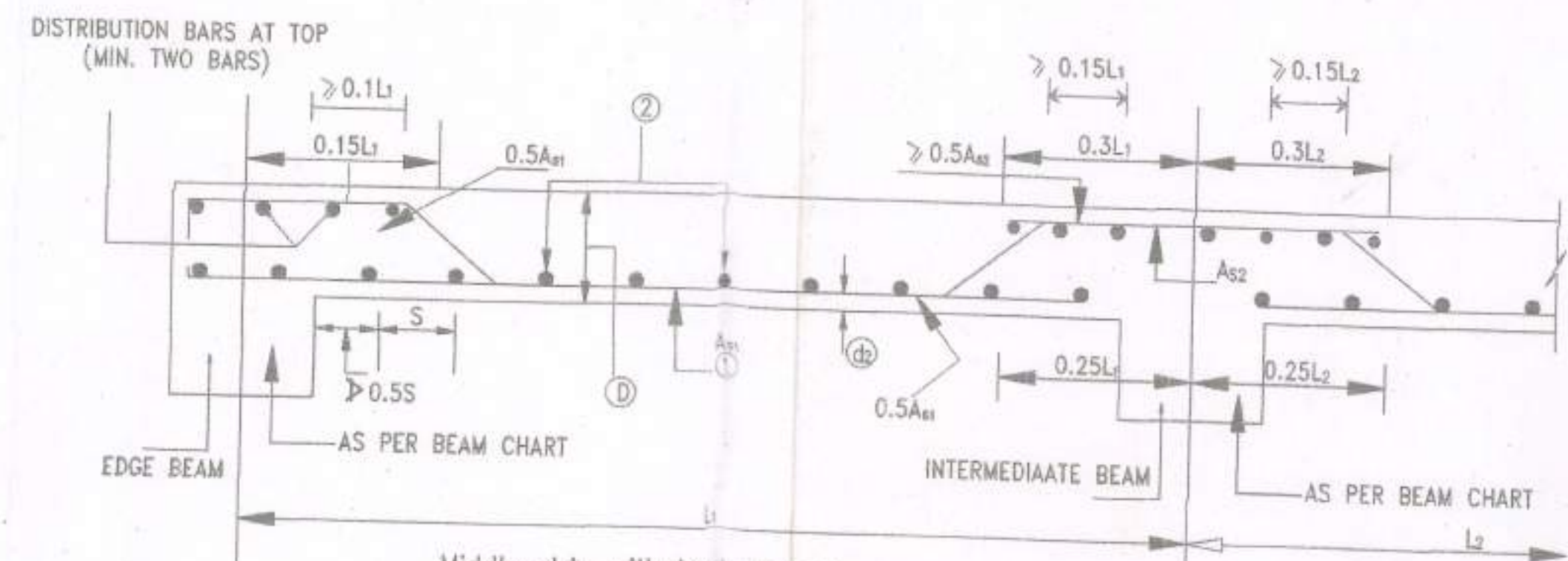


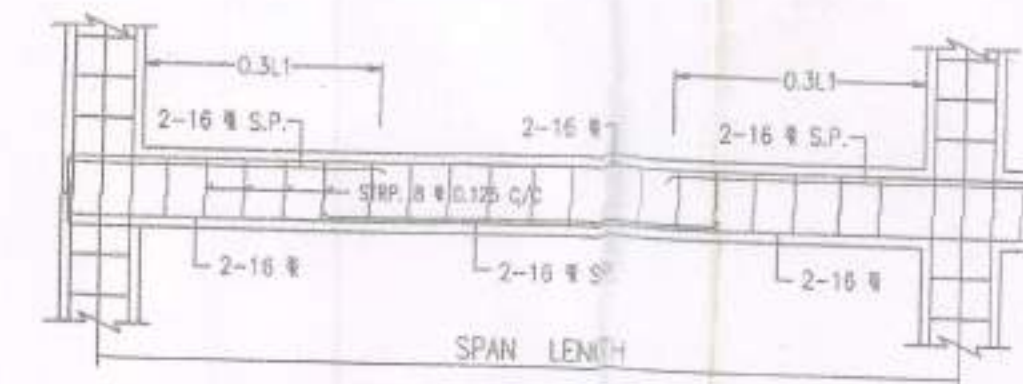
SCHEDULE OF SLAB						
SLAB MKD.	THICK. (mm.)	TYPE OF SLAB	SHORT SPAN REINFORCEMENT DETAILS		LONG SPAN REINFORCEMENT DETAILS	
			SPAN	SUPPORT	SPAN	SUPPORT
S1	0.100	TWO-WAY	8 ϕ 0.150 C/C (AT TOP & BOT)		8 ϕ 0.150 C/C (AT TOP & BOT)	
S1	0.100	TWO-WAY	8 ϕ 0.150 C/C (AT TOP & BOT)		8 ϕ 0.150 C/C (AT TOP & BOT)	
S2	0.125	TWO-WAY	10 ϕ 0.150 C/C (AT TOP & BOT)		10 ϕ 0.150 C/C (AT TOP & BOT)	

COLUMN CHART						
S.I. NO.	COLUMN MKD. & SIZE (M)	GR. FL.	1ST. FL.	2ND. FL.	3RD. FL.	AB. ROOF
1.	C21, C22, C23, C27, C30, C31, C34.	6-16 ϕ	6-16 ϕ	4-16 ϕ	4-16 ϕ	
	(0.400 X 0.250)	4-12 ϕ	4-12 ϕ	6-12 ϕ	4-12 ϕ	8 ϕ 0.150 C/C
2.	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C24, C25, C26, C28, C29, C32, C33.	6-16 ϕ	6-16 ϕ	6-16 ϕ	4-16 ϕ	4-12 ϕ
	(0.400 X 0.250)	4-16 ϕ	4-16 ϕ	4-12 ϕ	6-12 ϕ	8 ϕ 0.150 C/C



Middle strip with bent up bars.
Fig :- Layout of steel in restrained two way slabs.
SECTION OF SLAB WITH BEAM AT : M-N

- NOTE :
- S = Spacing between two bars (center to center distance two bars)
 - D = Overall depth of slab.
 - d = Clear cover of slab (0.020m)
 - 1. Main steel along Lx (Short direction) direction in middle strip, (AS PER SLAB SCHEDULE)
 - 2. Main steel along Ly (long direction) direction in middle strip, (AS PER SLAB SCHEDULE)



BEAM CHART FOR TYPICAL FLOOR LEVEL

BEAM MARKS	LEV. & SEC.	REINFORCEMENT	1ST. SPAN		2ND. SPAN		3RD. SPAN		4TH. SPAN	
			START	MIDDLE	END	MIDDLE	END	MIDDLE	END	MIDDLE
B1	0.250 X 0.500	2-20 ϕ 2-20 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B2	0.250 X 0.400	3-16 ϕ 2-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B3	0.250 X 0.400	2-16 ϕ 2-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B4	0.250 X 0.400	2-16 ϕ 3-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B5	0.250 X 0.400	2-16 ϕ 3-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B6	0.250 X 0.400	2-16 ϕ 3-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B7	0.250 X 0.400	2-16 ϕ 3-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B8	0.250 X 0.400	2-16 ϕ 3-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B9	0.250 X 0.400	3-16 ϕ 3-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B10	0.250 X 0.400	2-16 ϕ 2-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B11	0.250 X 0.400	2-16 ϕ 2-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B12	0.250 X 0.400	2-16 ϕ 2-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---
B13	0.250 X 0.400	2-16 ϕ 2-16 ϕ	E.T. 2-16 ϕ	---	---	---	---	---	---	---

THE PLAN OF PROPOSED FOUR STORED RESIDENTIAL BUILDING AT PREMISES NO.-16, A.C. PAL STREET, ARIADHA, KOLKATA-700057, MOUZA-ARIADHA-KAMARHATI, WARD NO.-8, HOLDING NO.- 200, J.L. NO.-1, R.S. NO.-12, TOUZI NO.-173, C.S. KHATIAN NO.-1177, 1178 & 1276, R.S. KHATIAN NOS.-3907, 2771 & 2767, R.S. DAG NOS.-3208, 3208/8825, 3208/6755 & 3208/6775, C.S. DAG NO.-3205, P.S.-BELGHARIA, DIST.-NORTH 24 PARGANAS, UNDER "KAMARHATI MUNICIPALITY"

NAME OF THE ASSESSEE:
SMT. CHAMPA SAMANTA
MISS. TANIYA SAMANTA

HEIGHT OF THE BUILDING 12.50 M FROM GROUND LEVEL.

OWNER'S DECLARATION
I/WE HEREBY DECLARE THAT WE ARE THE OWNERS/LESSEES OF THE PROPERTY TO BE BUILT UPON AND THE COPY OF THE REGISTERED DEED OF THE LAND OR OTHER DOCUMENTS IN SUPPORT OF OWNERSHIP/LEASES OF LAND ARE SUBMITTED HERewith THAT THE AFORESAID PLOT OF LAND IS THE ONLY ACQUISITION COVERED UNDER THE URBAN LAND (CEILING AND REGULATION) ACT, 1976 AND THAT EXTENT OF THAT PLOT IS WITHIN THE CEILING LIMIT ON VACANT LAND IMPOSED BY THE SAID ACT.

1) SMT. CHAMPA SAMANTA. 2) MISS. TANIYA SAMANTA.

STRUCTURAL ENGINEER DECLARATION
CERTIFIED THAT I HAVE BEEN ENGAGED AS LICENSED BUILDING SURVEYOR-I FOR THE PROPOSED BUILDING AT THIS PREMISES BY THE OWNERS/LESSEES FOR PLANNING, DESIGNING, SUPERVISION & COMPLETION OF THE WORK AS PER THE WEST BENGAL MUNICIPAL (BUILDING) RULES, 2007 (AMENDED). I WILL BE INDIVIDUALLY RESPONSIBLE FOR ENSURING THE SAFETY OF THE BUILDING AS A WHOLE. I HEREBY CERTIFY THAT AS A STRUCTURAL ENGINEER, ANY STRUCTURAL FAILURE OF THE BUILDING IS NOT LIABLE OF THE KAMARHATI MUNICIPALITY.

SRI. NILARAJ SARKAR

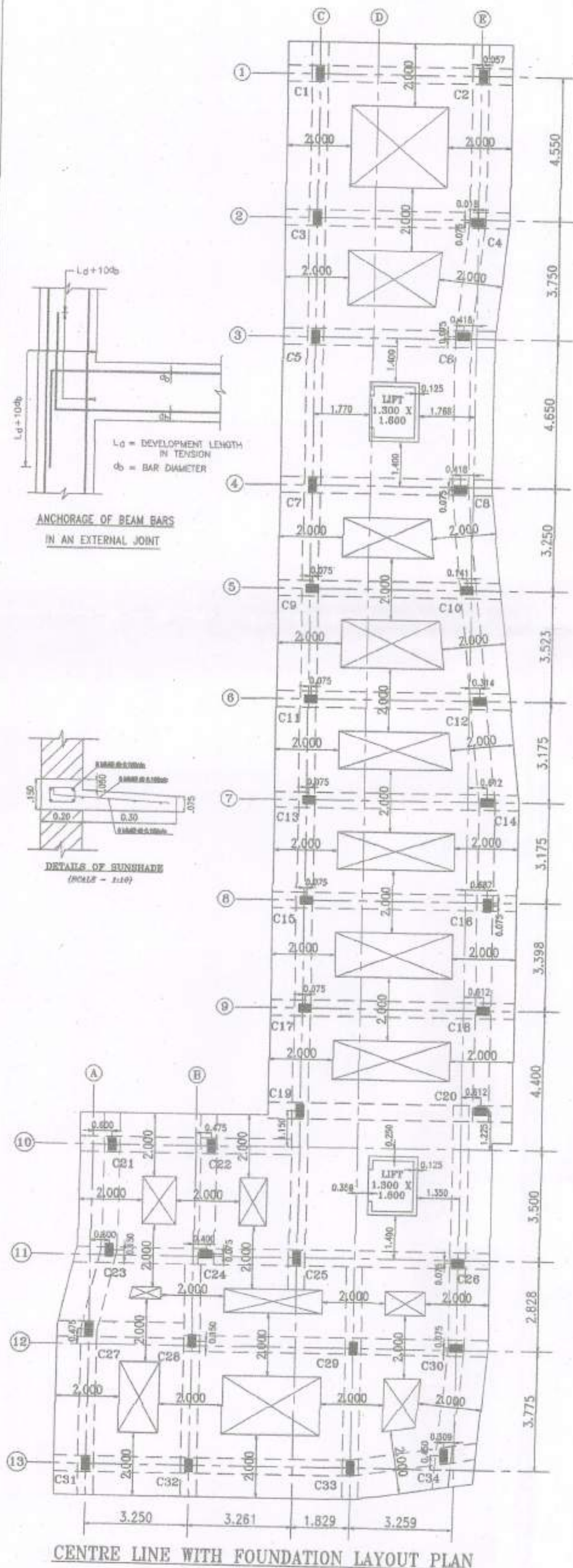
- NOTES:-
- ALL DIMENSIONS ARE IN M UNLESS OTHERWISE MENTIONED.
 - DO NOT SCALE DRAWINGS, WRITTEN DIMENSIONS SHOULD BE FOLLOWED.
 - ALL THE DIMENSIONS ARE TO BE CHECKED AT SITE.
 - CONTRACTORS TO STUDY THE DRAWINGS CAREFULLY AND CLARIFICATIONS REGARDING DISCREPANCY, IF ANY SHALL HAVE TO BE OBTAINED FROM THE ENGINEER / ARCHITECT CONCERNED BEFORE COMMENCEMENT OF WORK.
 - ALL R.C.C. WORK TO BE DONE IN M-30 GRADE OF CONCRETE.
 - GRADE OF STEEL IS 415 AS PER IS -486.
 - P. C. C. SHOULD BE 1:3:6.
 - BEARING CAPACITY OF SOIL 12 TON/SQ. M. (ASSUMED).
 - LAP LENGTH SHOULD BE 50 TIMES OF THE DIA. OF BAR.
 - CURING TIME OF ALL R.C.C. MEMBERS SHOULD BE 7-10 DAYS.
 - A.T.-ALL THROUGH / E.T.-EXTRA TOP / E.B.-EXTRA BOTTOM

COVER OF R.C.C. MEMBERS:
COVER FOR FOOTING : 0.050 M.
COVER FOR COLUMNS : 0.040 M.
COVER FOR BEAMS : 0.025 M.
COVER FOR SLABS : 0.020 M.

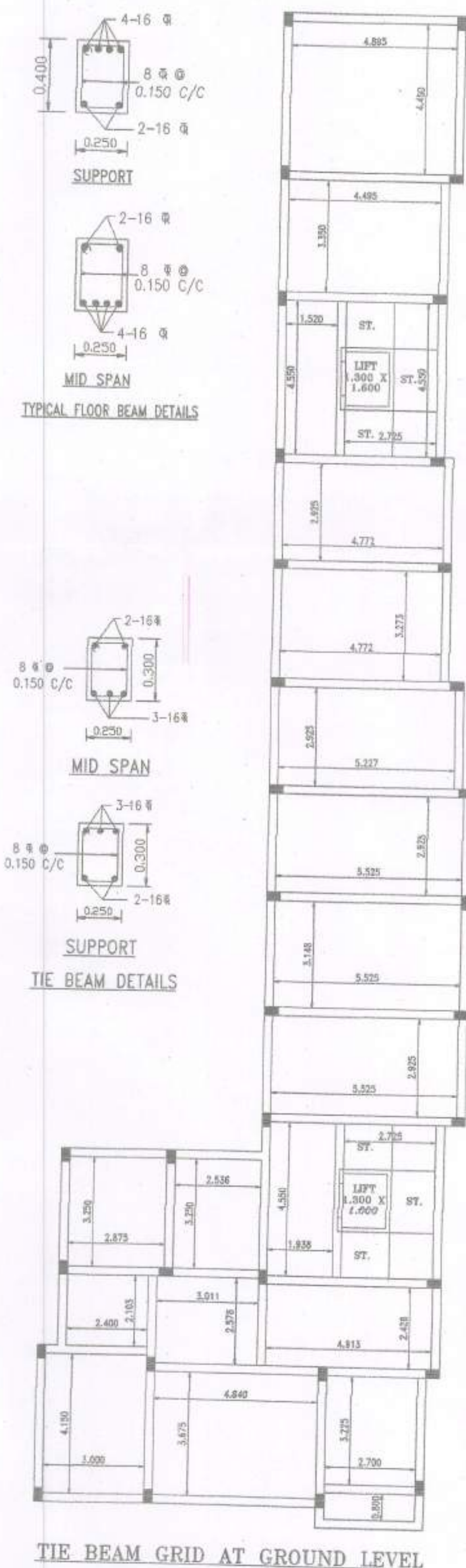
TITLE :
CENTER LINE WITH FOUNDATION LAY-OUT PLAN, TIE BEAM GRID AT GROUND, BEAM GRID AT TYPICAL FLOOR PLAN, TYPICAL FLOOR LEVEL, FOUNDATION CHART, BEAM CHART & DETAILS, COLUMN CHART

DATE :
DEALT :
CHECKED :

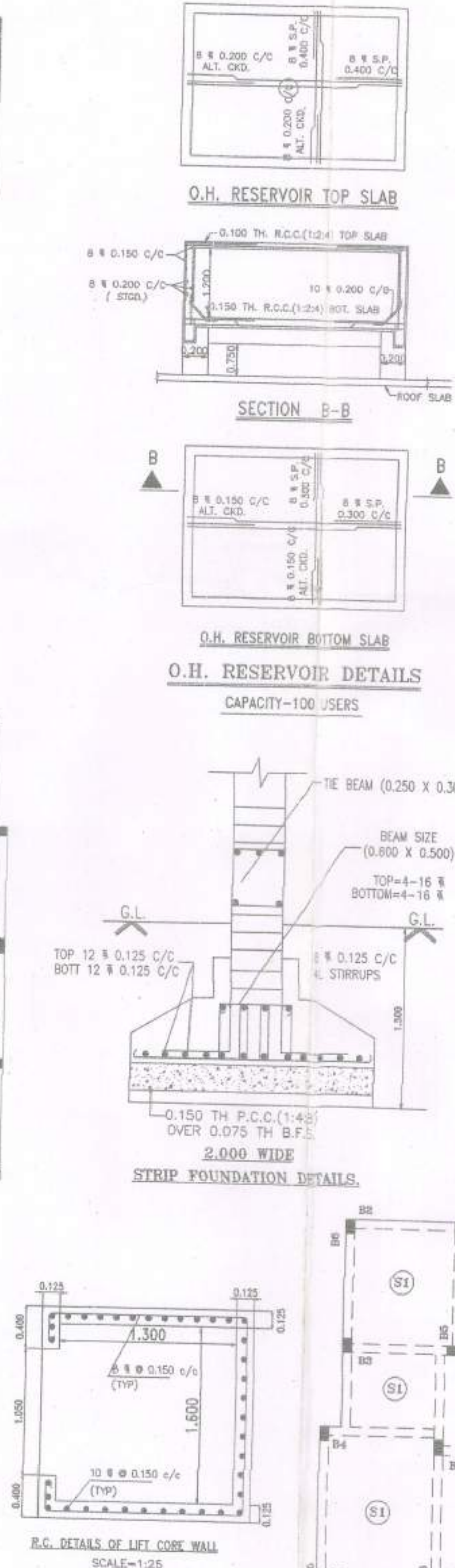
AIN NO. :



CENTRE LINE WITH FOUNDATION LAYOUT PLAN



TIE BEAM GRID AT GROUND LEVEL



BEAM GRID AT TYPICAL FLOOR LEVEL