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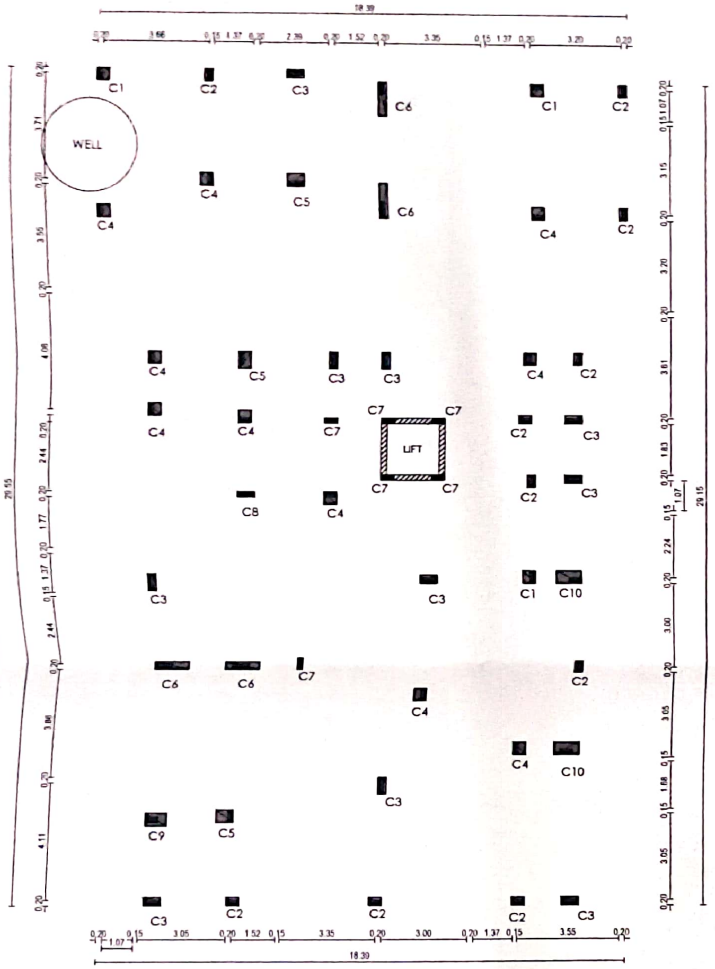
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Chennai, India

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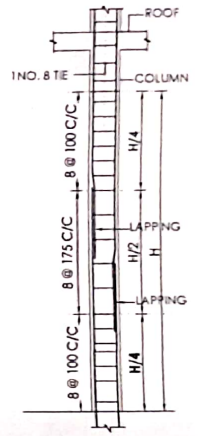


COLUMN LAYOUT

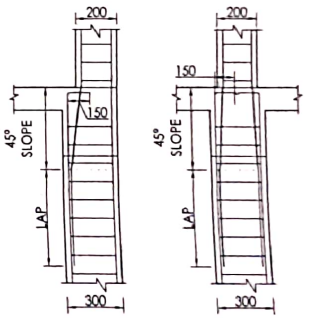
COLUMN SCHEDULE

COLUMN	STILT FLOOR	1ST , SECOND & THIRD FLOOR	FOURTH , FIFTH & HEADROOM
C1	450 × 450 • 8-Nos 20	200 X 450 • 4-Nos 20 +○4-Nos 16	200 X 450 • 4-Nos 20 +○4-Nos 12
C2	450 × 300 • 4-Nos 20 +○4-Nos 16	200 X 450 • 4-Nos 20 +○4-Nos 12	200 X 450 • 4-Nos 16 +○4-Nos 12
C3	600 × 300 • 10-Nos 20	200 X 600 • 6-Nos 20 +○4-Nos 16	200 X 600 • 6-Nos 20 +○4-Nos 12
C4	450 × 450 • 8-Nos 25	200 X 450 • 4-Nos 25 +○4-Nos 16	200 X 450 • 4-Nos 20 +○4-Nos 12
C5	600 × 450 • 14-Nos 25	200 X 450 • 4-Nos 20 +○4-Nos 16	200 X 450 • 4-Nos 20 +○4-Nos 12
C6	1200 × 300 • 20-Nos 25	200 X 600 • 6-Nos 20 +○4-Nos 16	200 X 600 • 6-Nos 20 +○4-Nos 12
C7	450 × 200 • 4-Nos 20 +○4-Nos 16	200 X 450 • 4-Nos 20 +○4-Nos 12	200 X 450 • 4-Nos 16 +○4-Nos 12
C8	600 × 200 • 10-Nos 20	200 X 600 • 6-Nos 20 +○4-Nos 16	200 X 600 • 6-Nos 20 +○4-Nos 12
C9	750 × 450 • 16-Nos 25	200 X 450 • 4-Nos 20 +○4-Nos 16	200 X 450 • 4-Nos 20 +○4-Nos 12
C10	900 × 450 • 18-Nos 25	200 X 450 • 4-Nos 20 +○4-Nos 16	200 X 450 • 4-Nos 20 +○4-Nos 12
CONCRETE GRADE	M-35 WITH 410 Kg/Cu.m. OF OPC	M-30 WITH 380 Kg/Cu.m. OF OPC	M-25 WITH 340 Kg/Cu.m. OF OPC

(USE COUPLERS FOR 25mm. 20 mm DIA BARS (OR) 50d LAPPING



TYPICAL TIES ARRANGEMENT IN COLUMN



REBAR DETAIL IN ALL COLUMN WIDTH CHANGE FROM 300MM TO 200MM

SUBMISSION DRAWING

NOTES:

* CONCRETE MIX SHOULD BE AS PER COLUMN SCHEDULE.
* CLEAR COVER TO THE MAIN REINFORCEMENT FOR COLUMN - 40MM, R.C.C. WALL - 30MM,
* STEEL SHOULD BE OF GRADE Fe500.
* LAP LENGTH FOR REINFORCEMENT : COLUMN - 40d, PLINTH BEAM - 50d, NO LAP FOR FOOTINGS.
* NOT MORE THAN 50% OF BARS LAPPED AT ONE POINT.
* CONDUIT PIPES SHOULD NOT GO THROUGH COLUMNS HORIZONTALLY & VERTICALLY.
* ONLY WRITTEN DIMENSIONS TO BE FOLLOW. DO NOT SCALE THE DRAWING.
* S.B.C = 40 tons / Sq.m. AT 2.5m AS PER M/S. GEO GLOBE FOUNDATIONS.
* S.B.C. TO BE CONFIRMED AT SITE AFTER EXCAVATION.
* DESIGNED FOR SEISMIC ZONE - III.
* FOUNDATION DESIGNED FOR STILT +5 FLOORS.
* BUILDING DESIGNED FOR 8" THICK LIGHT WEIGHT BLOCK WORK.
* BLOCK WORK NOT MORE THAN 13'-0" (4 METRE) FROM GROUND FLOOR

REVISION

NO:	DESCRIPTION	DATE

COLUMN LAYOUT AND DETAILS

	DATE : 11-11-2023	SCALE : ***
N	DRAWN : S.USHA RANI	DRG NO : *****
		SHEET NO : 8

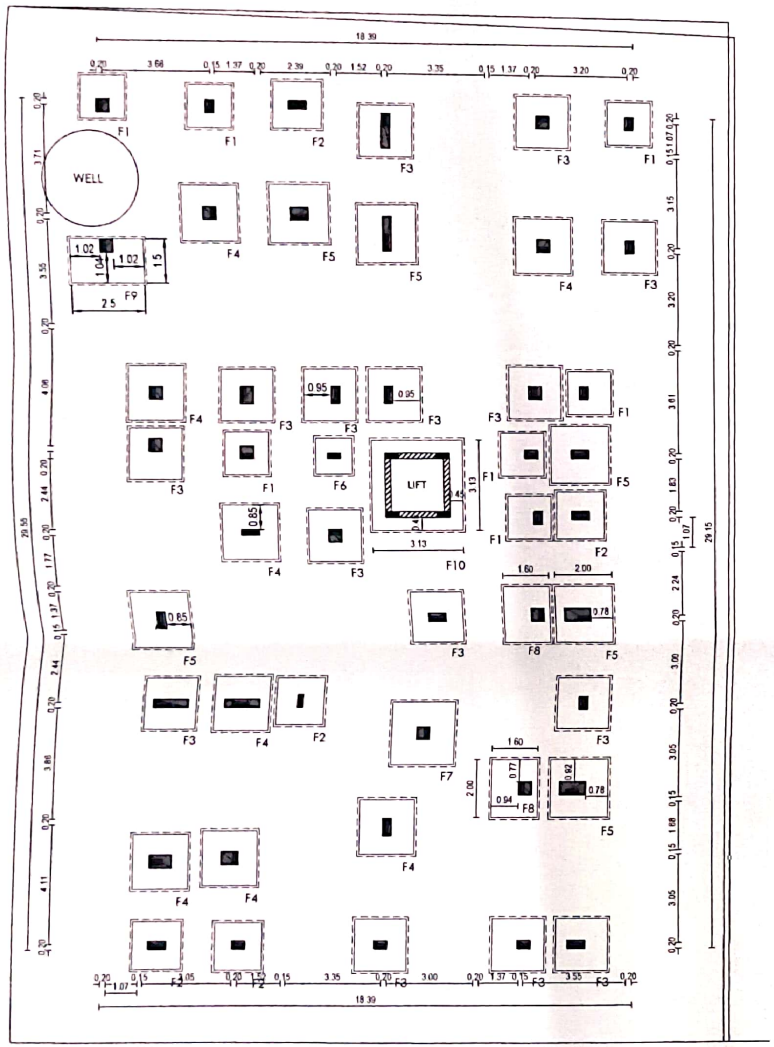
TITLE:

PLAN SHOWING THE PROPOSED CONSTRUCTION OF RESIDENTIAL BUILDING AT DOOR NO.4, SANTHANAKRISHNA STREET, NEHRU NAGAR, HASTINAPURAM, CHROMPET,CHENNAI - 600044. COMPRISED IN T.S.NO.41, BLOCK 3, WARD NO. F OF HASTINAPURAM VILLAGE, PALLAVARAM TALUK.

STRUCTURAL ENGINEER

J. PRABAKARAN, M.E.,
Structural Engineer
CMDA REG. No: SE/GR-I/2020/03/263
GCC REG No : RSE 101182020
No:1/4, Pidariamman Kovil Street,
Uthandi, Chennai - 600 119.
Mail : prabakaran_j@yahoo.co.in
Mobile : 9841757804

SUBMISSION DRAWING

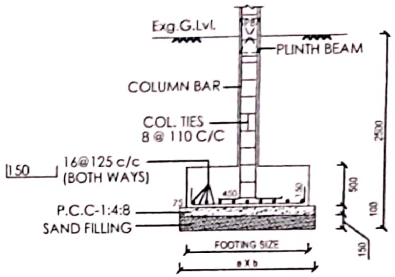


FOUNDATION LAYOUT

SANTHANAN KRISHNAN STREET

FOOTING SCHEDULE

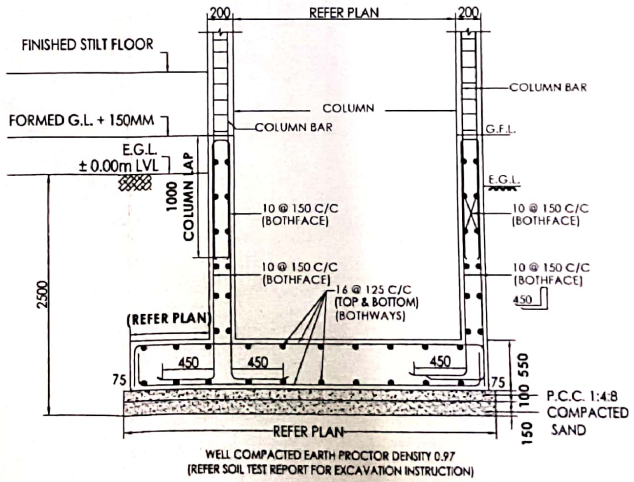
TYPE	PIT SIZE a x b	FOOTING SIZE	h	FOOTING REINFORCEMENT / BOTTOM REINFORCEMENT
F1	1650 x 1650	1500 x 1500	550	16 @ 125 C/C BOTHWAYS
F2	1800 x 1800	1650 x 1650	500	16 @ 125 C/C BOTHWAYS
F3	1950 x 1950	1800 x 1800	600	16 @ 125 C/C BOTHWAYS
F4	2050 x 2050	1900 x 1900	650	16 @ 125 C/C BOTHWAYS
F5	2150 x 2150	2000 x 2000	700	16 @ 125 C/C BOTHWAYS
F6	1400 x 1400	1250 x 1250	500	16 @ 125 C/C BOTHWAYS
F7	2350 x 2350	2200 x 2200	800	16 @ 125 C/C BOTHWAYS
F8	1750 x 2150	1600 x 2000	800	16 @ 125 C/C BOTHWAYS
F9	1650 x 2650	1500 x 2500	800	16 @ 125 C/C BOTHWAYS
F10 (LIFT)	REFER PLAN	REFER PLAN	550	16 @ 125 C/C (T&B) BOTHWAYS



WELL COMPACTED EARTH PROCTOR DENSITY 0.97 (REFER SOIL TEST REPORT FOR EXCAVATION INSTRUCTION)

TYPICAL FOUNDATION DETAIL

M-30



WELL COMPACTED EARTH PROCTOR DENSITY 0.97
(REFER SOIL TEST REPORT FOR EXCAVATION INSTRUCTION)

LIFT PIT DETAIL

NOTES:

* CONCRETE MIX SHOULD BE M-30 WITH MINIMUM CEMENT CONTENT 380 Kg/Cu.m. FOR FOOTING AND FOR COLUMN REFER COLUMN SCHEDULE.
* CLEAR COVER TO THE MAIN REINFORCEMENT FOR FOUNDATION - 60MM, COLUMN - 40MM, R.C.C. WALL - 30MM, PLINTH BEAM-30MM, ROOF BEAM - 30MM, ROOF SLAB - 25MM.
* STEEL SHOULD BE OF GRADE Fe500.
* LAP LENGTH FOR REINFORCEMENT : COLUMN - 40d, PLINTH BEAM - 50d, NO LAP FOR FOOTINGS.
* NOT MORE THAN 50% OF BARS LAPPED AT ONE POINT.
* CONDUIT PIPES SHOULD NOT GO THROUGH COLUMNS HORIZONTALLY & VERTICALLY.
* ONLY WRITTEN DIMENSIONS TO BE FOLLOW. DO NOT SCALE THE DRAWING.
* S.B.C = 40 tons / Sq m. AT 2.5m AS PER M/S. GEO GLOBE FOUNDATIONS.
* S.B.C. TO BE CONFIRMED AT SITE AFTER EXCAVATION.
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* BLOCK WORK NOT MORE THAN 13'-0" (4 METRE) FROM GROUND FLOOR

REVISION:

NO:	DESCRIPTION	DATE

FOUNDATION LAYOUT AND DETAILS

DATE : 11-11-2023 | SCALE : ***

DRAWN : S.USHA RANI | DRG NO : *****

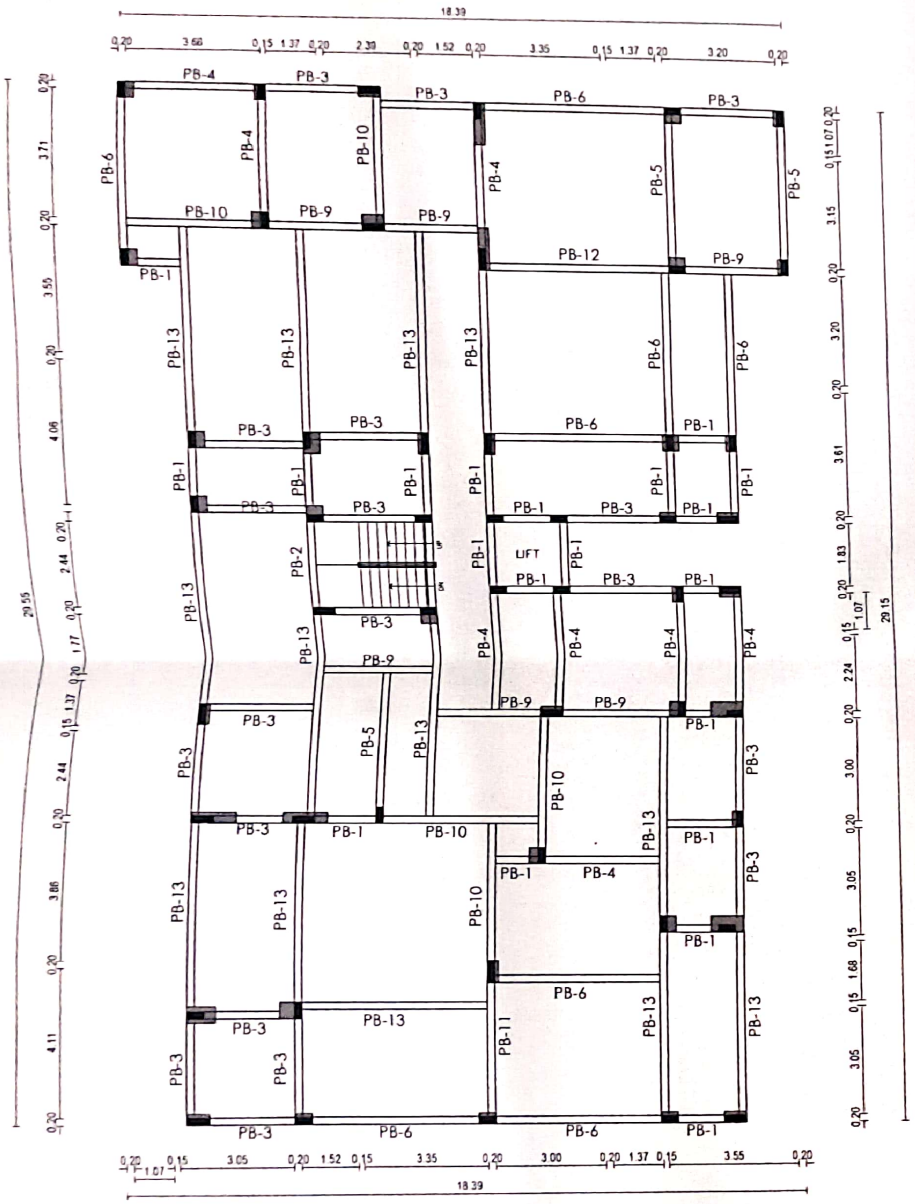
SHEET NO : 1

TITLE:

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STRUCTURAL ENGINEER

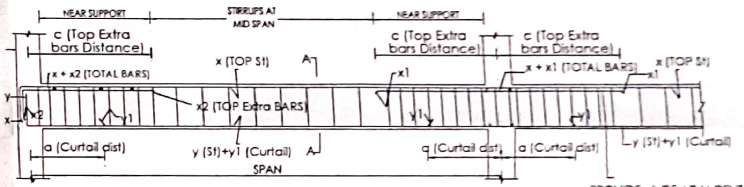
J. PRABAKARAN, M.E.,
Structural Engineer
CMDA REG. No: SE/CA-I/2020/03/263
GCC REG No : RSE 101182020
No.1/4, Pidariamman Kovil Street,
Uthandi, Chennai - 600 119.
Mail : prabakaran_j@yahoo.co.in
Mobile : 9841757884



PLINTH BEAM LAYOUT

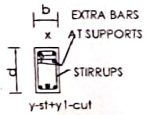
PLINTH BEAM SCHEDULE

PLINTH BEAM TYPE 200X600	REINFORCEMENT			STIRRUPS	
	TOP	BOTTOM	FOR BOTH ENDS BEAM (X)	NEAR SUPPORT	MID SPAN
PB-1	2-12	2-12	-	8 @ 10"C/C (250)	8 @ 10"C/C (250)
PB-2	2-12	2-12 st + 1-10ct	1-10 FOR 3'-0"(910)	8 @ 9"C/C (230)	8 @ 9"C/C (230)
PB-3	2-12	3-12 2st + 1-ct	1-12 FOR 3'-0"(910)	8 @ 9"C/C (230) FOR 2'-3" (685)	8 @ 12"C/C (300)
PB-4	2-12	4-12 2st + 2-ct	2-12 FOR 3'-0"(910)	8 @ 9"C/C (230) FOR 3'-0" (910)	8 @ 12"C/C (300)
PB-5	2-12	2-16 st + 2-12 ct	2nd LAYER 2-16 FOR 3'-6" (1070)	8 @ 8"C/C (200) FOR 4'-0" (1200)	8 @ 12"C/C (300)
PB-6	2-16	4-16 2st + 2-ct	2nd LAYER 3-16 FOR 4'-0" (1200)	8 @ 6"C/C (150) FOR 4'-0" (1200)	8 @ 10"C/C (250)
PB-7	PB-7 SIMILAR TO PB-2 EXCEPT STIRRUPS 8 @ 8" (200) C/C FULL SPAN				
PB-8	PB-8 SIMILAR TO PB-3 EXCEPT STIRRUPS 8 @ 8" (200) C/C FULL SPAN				
PB-9	PB-9 SIMILAR TO PB-4 EXCEPT STIRRUPS 8 @ 7" (200) C/C FULL SPAN				
PB-10	PB-10 SIMILAR TO PB-5 EXCEPT STIRRUPS 8 @ 6" (150) C/C FULL SPAN				
PB-11	PB-11 SIMILAR TO PB-6 EXCEPT STIRRUPS 8 @ 5" (130) C/C FULL SPAN				
PB-12	3-20	3-16 2st + 1-ct	2nd LAYER 3-16 FOR 4'-0" (1200)	8 @ 6"C/C (150) FOR 4'-0" (1200)	8 @ 10"C/C (250)
PB-13	3-20	3-16 2st + 1-ct	2nd LAYER 3-16 FOR 4'-0" (1200)	10 @5"C/C (150) FOR 4'-0" (1200)	10 @ 5"C/C (250)

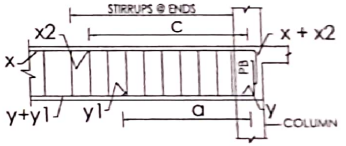


TYPICAL ELEVATION OF PB

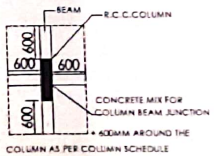
PROVIDE x1 OF ADJACENT BEAM IN 2nd LAYER (TYPICAL) IF INADEQUATE SPACE IN 1-LAYER



SECTION ON A-A



TYPICAL ELEVATION OF DISCONTINUOUS P.BEAM (PART)



TYPICAL PLAN OF CONCRETE MIX FOR COLUMN BEAM JUNCTION

SUBMISSION DRAWING

NOTES:

- CONCRETE MIX SHOULD BE M-30 WITH MINIMUM CEMENT CONTENT 380 Kg/Cu.m. FOR PLINTH BEAM
- CLEAR COVER TO THE MAIN REINFORCEMENT FOR FOUNDATION - 60MM COLUMN - 40MM, R.C.C. WALL - 30MM, PLINTH BEAM-30MM, ROOF BEAM - 30MM, ROOF SLAB - 25MM.
- STEEL SHOULD BE OF GRADE Fe500.
- LAP LENGTH FOR REINFORCEMENT : COLUMN - 40d, PLINTH BEAM - 50d, NO LAP FOR FOOTINGS.
- NOT MORE THAN 50% OF BARS LAPPED AT ONE POINT.
- CONDUIT PIPES SHOULD NOT GO THROUGH COLUMNS HORIZONTALLY & VERTICALLY
- ONLY WRITTEN DIMENSIONS TO BE FOLLOW. DO NOT SCALE THE DRAWING.
- S.B.C = 40 tons / Sq.m. AT 2.8m AS PER M/S. GEO GLOBE FOUNDATIONS.
- S.B.C. TO BE CONFIRMED AT SITE AFTER EXCAVATION
- DESIGNED FOR SEISMIC ZONE - III.
- FOUNDATION DESIGNED FOR STILT+5 FLOORS
- BUILDING DESIGNED FOR 8" THICK LIGHT WEIGHT BLOCK WORK.
- BLOCK WORK NOT MORE THAN 13'-0" (4 METRE) FROM GROUND FLOOR

REVISION:

NO:	DESCRIPTION	DATE

PLINTH BEAM LAYOUT AND DETAILS

DATE : 11-11-2023 SCALE : ***

DRAWN : S.USHA RANI DRG NO. : *****

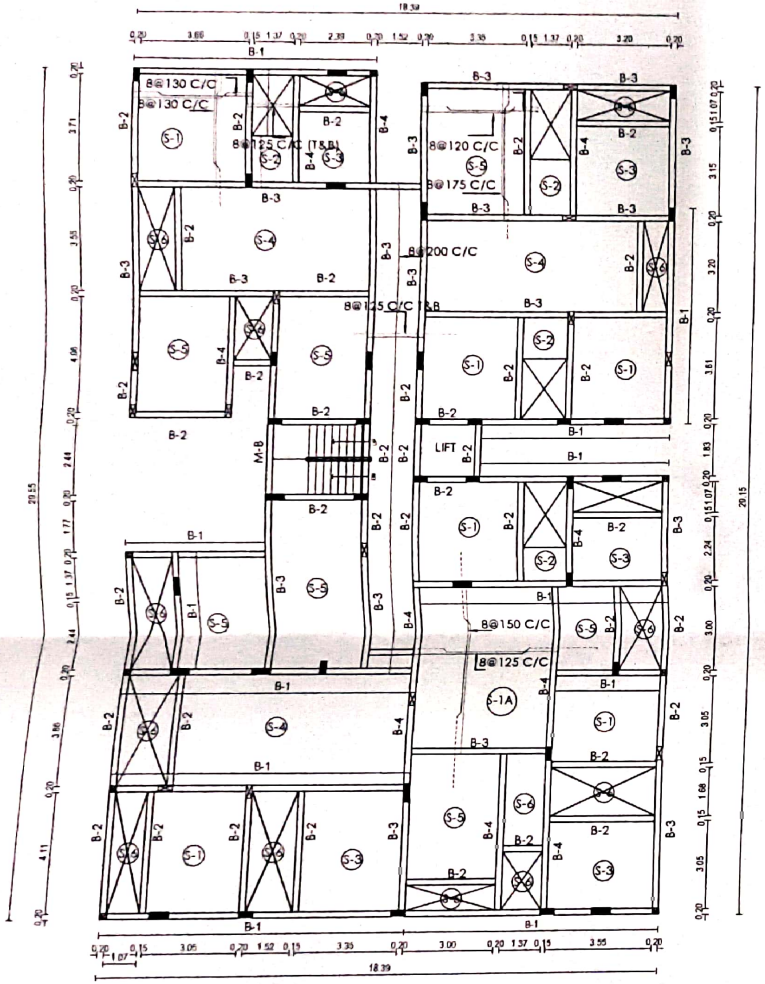
SHEET NO : 3

TITLE:

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STRUCTURAL ENGINEER

J. PRABAKARAN, M.E.
Structural Engineer
CMDA REG. No: SE/GR-I/2020/0
GCC REG No : BSE 1011820
No: 1-4, Pidarimman Kovil St,
Othiyali, Chennai - 600 119
Mail : prabaharan_j@yahoo.c
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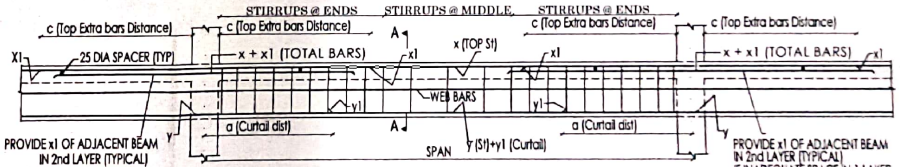
TYPICAL FLOOR ROOF BEAM LAYOUT

BEAM SCHEDULE

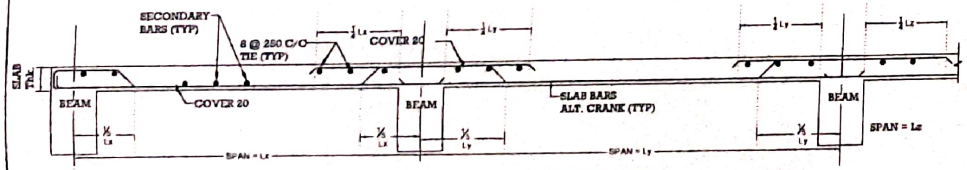
BEAM NO:	SECTION b x d	REINFORCEMENT								STIRRUPS	
		BOTTOM BARS			TOP EXTRA BAR						
		BOTTOM y (St)	BOTTOM y1 (Curtail)	CURTAIL Dist AT (a)	TOP x (St)	CONTINUOUS BEAM AT SUPPORT TOP (x1)	c + Column Width (CW) + c	DISCONTINUOUS BEAM AT SUPPORT TOP (x2)	c	NEAR SUPPORTS	MID SPAN
B-1	8"x24"	2-25	2-25	-	2-25	2-25	2000+cw+ 2000	2-25	2000	10@125C/C	10@125C/C
B-2	8"x18"	2-12	1-16	600	2-12	1-16	1000+CW+ 1000	1-16	1000	8@125C/C	8@200C/C
B-3	8"x18"	3-20	2-20	750	2-20	3-20	1150+CW+ 1150	3-20	3'-3"	10@125C/C	10@125C/C
B-4	8"x18"	2-20	1-16	700	2-12	2-20	1200+CW+ 1200	2-20	1200	8@125C/C	8@125C/C

SLAB SCHEDULE

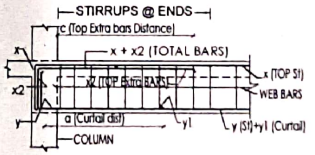
SLAB NO.	SLAB THICK	SHORTER SPAN	LONGER SPAN
S-1	130	8@130C/C	8@130C/C
S-1A	130	8@125C/C	8@150C/C
S-2	130	8@125C/C (T&B)	8@200C/C (T&B)
S-3	130	8@130C/C (T&B)	8@150C/C (T&B)
S-4	130	10@125C/C	10@175C/C
S-5	130	8@120C/C	8@175C/C
S-6	130	8@125C/C (T&B)	8@150C/C (T&B)



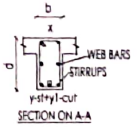
TYPICAL ELEVATION OF BEAM



TYPICAL DETAILS OF SLAB CRANK POINT



TYPICAL ELEVATION OF END BEAM (PART)



SECTION ON A-A

SUBMISSION DRAWING

NOTES:

- CONCRETE MIX SHOULD BE M-30 WITH MINIMUM CEMENT CONTENT 360 Kg/Cu m. FOR ROOF BEAM & SLAB
- CLEAR COVER TO THE MAIN REINFORCEMENT FOR ROOF BEAM -30MM, ROOF SLAB -25MM
- STEEL SHOULD BE OF GRADE Fe500.
- LAP LENGTH FOR REINFORCEMENT : COLUMN - 40d, PLINTH BEAM - 50d, NO LAP FOR FOOTINGS.
- NOT MORE THAN 50% OF BARS LAPPED AT ONE POINT.
- CONDUIT PIPES SHOULD NOT GO THROUGH COLUMNS HORIZONTALLY & VERTICALLY.
- ONLY WRITTEN DIMENSIONS TO BE FOLLOW. DO NOT SCALE THE DRAWING.
- - - - - - DENOTES TOP BAR
- ——— DENOTES BOTTOM BAR
- ALL DIMENSIONS ARE IN METER AND MILLIMETER.

REVISION:		
NO:	DESCRIPTION	DATE

TYPICAL FLOOR ROOF BEAM, SLAB LAYOUT AND DETAILS

	DATE : 11-11-2023	SCALE : ***
N	DRAWN : S USHA RANI	DRG NO : *****
		SHEET NO : 4

TITLE:

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Mobile : 9841757384



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