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PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30M) RESIDENTIAL BUILDING WITH 114 DWELLING UNITS (AFFORDABLE HOUSING) (SWIMMING POOL, INDOOR GAMES ROOM, ASSOCIATION ROOM, TABLE TENNIS & SNOOKER ROOM, VIDEO GAMES ROOM, CRECHE, GYM AND HOME THEATRE ROOM) AT I.A.F ROAD, SELAIYUR, CHENNAI COMPRISED IN S.Nos.237/1, 237/4A, 238/3A & 239/1A, T.S.No. 25/1, 25/4, 25/3, 25/2, BLOCK NO.26, OF SELAIYUR VILLAGE, TAMBARAM TALUK, WITHIN THE LIMIT OF TAMBARAM MUNICIPAL CORPORATION.

TYPICAL STRUCTURAL DESIGN CALCULATION

1 **General:**

Proposed building is S+ 5 upper floors for residential purpose. Stilt floor is used for car parking. The floor height is 3.0 m in upper floors

2 **Design Basis:**

Latest Design codes of BIS-456, 875 and 1893 are followed with SP-16 Design Aid book. A typical Frame was taken for analysis to arrive at the bending moment for column design. Since the building is 6 stories, wind force is taken into account. Live load reduction factor is applied in design. isolated foundation is proposed. Fe-550 steel is used as main steel and M25 grade concrete.

3 **Earthquake consideration:**

For better stability during earhquake, the columns are tied with plinth beams. Continuous lintels are specified for outer walls and column ties are closely spaced for better ductility. For building on stilt, minimum size of column is taken as 300 mm(12")

4 **WIND LOAD**

Vz	=	Vb x K1 x K2 x k3
Vb	=	50 m/sec in Chennai
K1	=	Probability Factor = 1
K2	=	Terrain, Height Factor = 1
K3	=	Topography Factor = 1
p	=	0.6 x Vz x Vz
	=	0.6 x 50 x 50
	=	1500 N/Sq.m

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5 **Design Loads:**

Slab thk	130	=	3.25 KN/sq.m
Live load		=	2.00 KN/sq.m
Finishes		=	1.25 KN/sq.m
			6.50 KN/sq.m

Say 6.50 KN/sq.m/floor for slab and beam design
Applying live load reduction of = 0.3 ,
For column and foundation design, 6.00 Kn/sqm is taken.

This value is also taken for frame analysis

Brick work 230 thick for exterior walls

	0.23	x	2.55	x	20	=	12	KN/m/floor
Beams	0.23	x	0.45	x	25	.=	2.6	KN/m/floor
Columns	0.3	x	0.60	x	2.45 x 25	.=	11.0	KN/floor

These are taken for analysis with WL+LL+DL combination.

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6 **SLAB DESIGN:**

Thickness	=	130 mm		Concrete mix	Fck	= M 25	N/sq.mm
Cover	=	20 mm		Steel Grade	Fy	=Fe 550	N/sq.mm
Eff.Depth	=	105 mm					

Panel (3.4 x 6.3) m

=

Two way slab Ly / Lx 6.3 / 3.4 .= 1.9

Support condition - Two long edges discontinuous

short span=	α x	=	0.000	(- BM at continuous edge)	Table:26
		=	0.088	(+ BM at midspan)	in IS-456-2000
long span=	α y	=	0.045	(+ BM at continuous edge)	
		=	0.035	(+ BM at midspan)	

Designed for 0.088 co.efficient

Mu .= 0.088 x 6.5 x 1.5 x 3.4 x 3.4 = 9.92 knm/m

$$\text{Mu / b.d.d} = \frac{9.92 \times 1000 \times 1000}{1000 \times 105 \times 105} = 0.90 \text{ N/sq.mm}$$

From Table-3 of SP-16, Pt .= 0.216 %

Minimum Pt = 0.12 % as per code, for Fe-500

At = 0.216 x 1000 x 105 ./ 100 = **227** sq.mm/m

Provide 8 dia @ 130 c/c = **387** sq.mm/m Short span

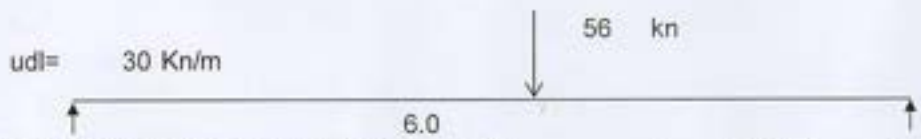
Provide 8 dia @ 230 c/c = **219** sq.mm/m Long span

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7 **Beam design:**

Effective span = 6.0 m Beam size 230 x 600

Fck = M 25 d = 560 mm



Max. Bending Moment at mid span udl = w.l.l / 12 + pl/8

$= \frac{30 \times 6.00 \times 6.00}{12} + \frac{56 \times 6.0}{8} =$ 132 Knm

Mu = 132 x 1.5 x 10-e6 = 198.0 x 10-e6 Nmm

$Mu/b.d.d = \frac{198 \times 10\text{-e6}}{230 \times 560 \times 560} =$ 2.75 N/sq.mm

From table-3 SP-16 d'/d = 40 / 560 = 0.07

Pt = **0.744** % for Pc = **0.000** %

At = 0.744 x 230 x 560 / 100 = **958** sq.mm (bot)

Ac = 0.000 x 230 x 560 / 100 = **0** sq.mm (top)

provided 2 No 20 = **628** sq.mm

\+ 2 No 20 = 628 sq.mm

1257 sqmm bot

provided 2 No 20 = 628 sq.mm

\+ 2 No 20 = 628 sq.mm

1257 sqmm top of support

Shear Design:

Shear force = $\frac{30 \times 6}{2} + \frac{56}{2} =$ 118 KN

Factored shear force = 1.5 x 118 = 177 KN

for 0.74 % steel Shear resisted by concrete section

from table-61 0.62 x 230 x 560 / 1000 = 80 KN

Balance shear (Vus) = 177 - 80 = 97 KN

Vus/d = 97 / 41 = 2.4 KN/cm

from table 62 of SP-16

Required 2 legged 8 stirrups @ 190 mm c/c

Provided 2 legged **8** stirrups @ **150** mm c/c

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8 **COLUMN DESIGN:** **COL SIZE 300 X 600**

Maximum load on column in basement P = 200 t

Pu = 1.5 x 200 x10 = 3000 KN

Max.Bending Moment = 6 t.m Mu = 1.5 x 6.0 x10= 90 Kn.m

Cover = 40 mm

d'/d = 0.07

Fck = M 35 = 35 N/sq.mm Fy = Fe 550

Provide bars equaly all sides

Refer chart 48 of SP-16

$$\frac{Pu}{Fck\ b\ d} = \frac{3000 \times 1000}{35 \times 300 \times 600} = 0.48$$

$$\frac{Mu}{Fck\ b\ d^2} = \frac{90 \times 10^6}{35 \times 300 \times 600 \times 600} = 0.02$$

$$\frac{p}{Fck} = 0.03 \quad p\% = 0.03 \times 35 = 1.05\ \%$$

Minimum steel = 0.8 %

$$As = \frac{1.05 \times 300 \times 600}{100} = 1890\ sq.mm$$

Provided 10 Nos 25 dia = 4909 sq.mm

4909 sq.mm

Ties 8 @ 110c/c and 8 @ 190c/c

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9 **FOOTING DESIGN**

Maximum load on column P = 200 t Fck = M25
Add 10% footing load = 220 t
Max.Bending Moment = 6 t.m

S.B.C of Soil at 20 t/sqm at depth = 2 m
Assume footing base of 3.65 X 3.65 m and depth = 900 mm
So pressure on soil is Eff. Depth = 850 mm

$$\frac{220}{3.5 \times 3.50} = 17.96 \text{ t/sqm} < 20 \text{ t/sqm}$$

Cantilever projection of footing = $\frac{3.50 - 1.10}{2} = 1.20$ m

B.M on footing at face of column pedestal

BM = $\frac{17.96 \times 1.20 \times 1.20}{2} = 12.93$ tm

Mu = 12.93 x 1.5= 19.40 tm

Mu/b.d.d = $\frac{19.40 \times 1000 \times 10000}{1000 \times 850 \times 850} = 0.27$ N/sqm

Fck = 25 n/sqmm
From Table-3 of SP-16, Pt 0.07 % min pt% .= 0.120 %

At = $\frac{0.120 \times 1000 \times 850}{100} =$ **1020** sq.mm

Provide 12 dia @ 130 c/c = **2975** sq.mm

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DETAIL OF FOOTING SCHEDULE

TYPE	PCC SIZE in M.M	h	FOOTING PAT DETAILS
F1	3000 X 3000	900	12 @ 150C/C
F2	2550 X 2700	600	12 @ 150C/C
F3	2250 X 2250	600	12 @ 150C/C
F4	2000 X 2000	600	12 @ 150C/C
F5	2400 X 2400	550	12 @ 150C/C
F6	2700 X 2700	550	12 @ 150C/C
F7	2500 X 2500	550	12 @ 150C/C
F8	3400 X 3400	750	12 @ 150C/C
F9	2200 X 2200	450	12 @ 150C/C
F10	2050 X 2050	450	12 @ 150C/C
F11	2300 X 2300	550	12 @ 150C/C
F12	1900 X 1900	500	12 @ 150C/C
F13	1650 X 1650	450	12 @ 150C/C
F14	1600 X 1600	350	12 @ 150C/C
F15	2250 X 2250	500	12 @ 150C/C
F16	2100 X 2700	700	12 @ 150C/C
F17	1650 X 2550	600	12 @ 150C/C
F18	2450 X 2850	600	12 @ 150C/C
F19	1700 X 2250	450	12 @ 150C/C
F20	2500 X 2500	700	12 @ 150C/C
F21	2900 X 2900	750	12 @ 150C/C
F22	2650 X 2650	650	12 @ 150C/C
F23	2750 X 2900	650	12 @ 150C/C
F24	2250 X 2750	600	12 @ 150C/C
F25	2650 X 2550	700	12 @ 150C/C
F26	2900 X 2900	750	12 @ 150C/C
F27	2950 X 3450	750	12 @ 150C/C
F28	2550 X 2700	750	12 @ 150C/C
LIFT-1	REFER PLAN	600	12 @ 150C/C
LIFT-2	REFER PLAN	700	12 @ 150C/C
LIFT-3	REFER PLAN	750	12 @ 150C/C
LIFT-4	REFER PLAN	600	12 @ 150C/C

CONCRETE MIX M-35
WITH MINIMUM CEMENT
CONTENT 350Kg/cu.m

NOTES

- CONCRETE MIX SHOULD BE M-35 WITH MINIMUM CEMENT CONTENT 350 Kg/cu.m UNLESS SPECIFIED
- COLUMN MAXIMUM COLUMN BARS ALIGN IN LONGER DIRECTION
- CLEAR COVER TO THE MAIN REINFORCEMENT FOR COLUMN-25, FOUNDATION-40, P.BEAM-25
- STEEL SHOULD BE OF GRADE Fe550
- LAP LENGTH FOR REBARS-50d, EXCEPT COLUMN-60d
- NOT MORE THAN 50% OF BARS LAPPED AT ONE POINT
- CONDUIT PIPES SHOULD NOT GO THROUGH COLUMNS
- COLUMN AND FOOTING CENTRE IS SAME UNLESS SPECIFIED
- P.BEAM & STUB COLUMN DETAILS REFER PB15 DRG.NO.1A
- S.B.C = 20t/Sq.m at 2.00m DEPTH AS PER SOIL REPORT
- BUILDING DESIGNED FOR G+5 UPPER FLOORS
- REFER SOIL REPORT FOR SUGGESTED PRECAUTIONS
- BUILDING DESIGNED FOR SEISMIC ZONE-III

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DETAIL OF FOUNDATION

NORTH POINT

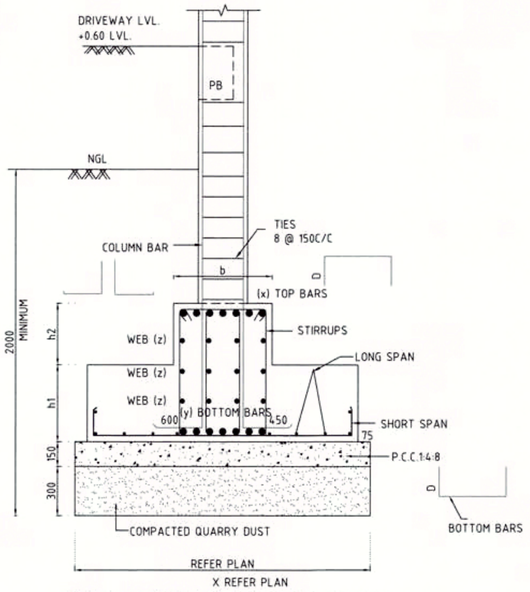
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STRUCTURAL CONSULTANT

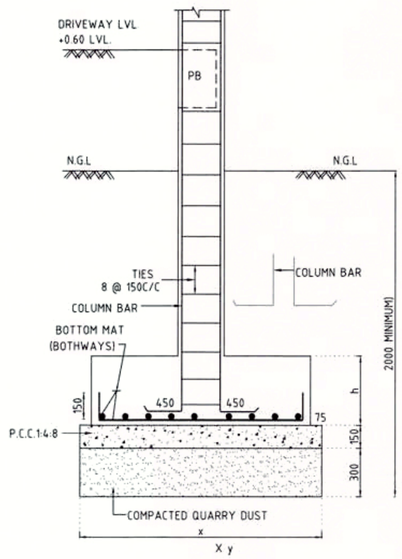
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DETAIL OF COMBINED FOOTING SCHEDULE

TYPE	COMBINED FOOTING WIDTH	FOOTING MAT		COMBINED FOOTING DEPTH	COMBINED BEAM				WEB	STIRRUPS
					RIB DEPTH	RIB WIDTH	TOP BARS	BOT BARS		
	LENGTH REFER PLAN	MAIN BAR	DISTRIBUTOR	(h1)	(h2)	(b)	(x)	(y)	(z)	FULL SPAN
CF-1	3200	12 @ 130C/C	12 @ 130C/C	750	450	900	7-25	7-25	4-12+4-12+ 4-12	4 LEGGED 12 @ 110C/C
CF-2	2950	12 @ 130C/C	12 @ 130C/C	750	450	900	8-20	8-20	4-12+4-12+ 4-12	4 LEGGED 12 @ 130C/C
CF-3	3200	12 @ 130C/C	12 @ 130C/C	750	450	900	7-25	7-25	4-12+4-12+ 4-12	4 LEGGED 12 @ 110C/C
CF-4	3100	12 @ 130C/C	12 @ 130C/C	750	250	1000	8-20	8-20	4-12+4-12	4 LEGGED 12 @ 110C/C
CF-5	3350	12 @ 130C/C	12 @ 130C/C	750	250	1000	7-20	7-20	4-12+4-12	4 LEGGED 12 @ 130C/C
CF-6	2500	12 @ 130C/C	12 @ 130C/C	600	400	750	7-20	7-20	4-12+4-12	4 LEGGED 12 @ 150C/C
CF-7	3200	12 @ 130C/C	12 @ 130C/C	750	450	900	7-25	7-25	4-12+4-12+ 4-12	4 LEGGED 12 @ 100C/C
CF-8	2950	12 @ 130C/C	12 @ 130C/C	680	320	900	6-20	6-20	4-12+4-12	4 LEGGED 10 @ 150C/C
CF-9	3150	12 @ 130C/C	12 @ 130C/C	750	450	900	6-25	6-25	4-12+4-12+ 4-12	4 LEGGED 12 @ 110C/C
CF-10	1650	12 @ 130C/C	12 @ 130C/C	400	600	750	7-20	7-20	4-12+4-12	4 LEGGED 12 @ 130C/C
CF-11	2850	12 @ 130C/C	12 @ 130C/C	750	450	900	7-25	7-25	4-12+4-12+ 4-12	4 LEGGED 12 @ 110C/C
CF-12	2450	12 @ 130C/C	12 @ 130C/C	450	750	900	8-20	8-20	4-12+4-12+ 4-12	4 LEGGED 12 @ 130C/C
CF-13	2700	12 @ 130C/C	12 @ 130C/C	750	450	600	7-25	7-25	4-12+4-12+ 4-12	4 LEGGED 12 @ 110C/C
CF-14	2650	12 @ 130C/C	12 @ 130C/C	680	320	750	7-20	7-20	4-12+4-12	4 LEGGED 12 @ 130C/C
CF-15	2950	12 @ 130C/C	12 @ 130C/C	750	450	750	7-25	7-25	4-12+4-12+ 4-12	4 LEGGED 12 @ 110C/C
CF-16	1950	12 @ 130C/C	12 @ 130C/C	400	500	600	6-16	6-16	4-12+4-12	4 LEGGED 10 @ 130C/C
CF-17	2450	12 @ 130C/C	12 @ 130C/C	400	500	600	6-16	6-16	4-12+4-12	4 LEGGED 10 @ 130C/C
CF-18	2350	12 @ 130C/C	12 @ 130C/C	750	450	750	6-25	6-25	4-12+4-12+ 4-12	4 LEGGED 12 @ 130C/C
CF-19	2650	12 @ 130C/C	12 @ 130C/C	600	400	750	6-20	6-20	4-12+4-12	4 LEGGED 12 @ 130C/C
CF-20	2350	12 @ 130C/C	12 @ 130C/C	500	500	750	6-20	6-20	4-12+4-12	4 LEGGED 12 @ 130C/C
CF-21	3450	12 @ 100C/C	12 @ 100C/C	750	450	1000	9-25	9-25	4-12+4-12+ 4-12	4 LEGGED 12 @ 100C/C
CF-22	2650	12 @ 130C/C	12 @ 130C/C	600	600	750	6-20	6-20	4-12+4-12+ 4-12	4 LEGGED 12 @ 130C/C

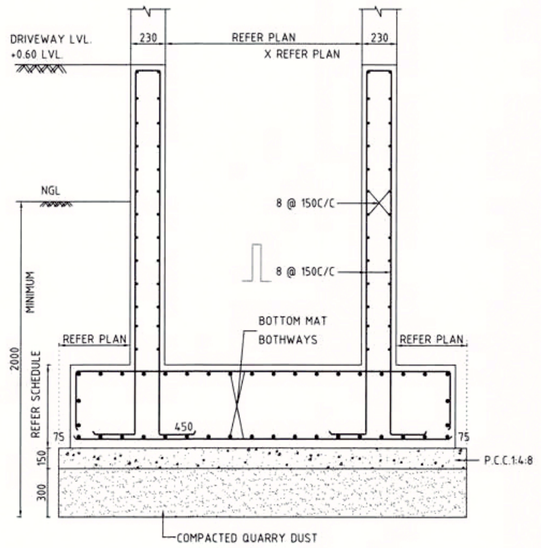


TYPICAL DETAIL OF COMBINED FOOTING

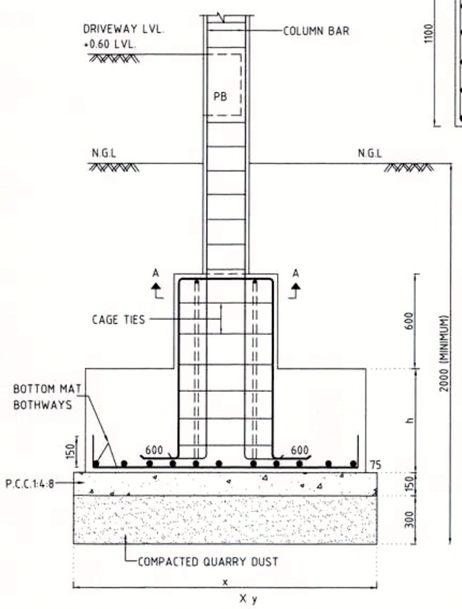


DETAIL OF FOOTING TYPE-F8 TO F17, F19, F21, F22, F23, F26

WITHOUT PEDESTAL

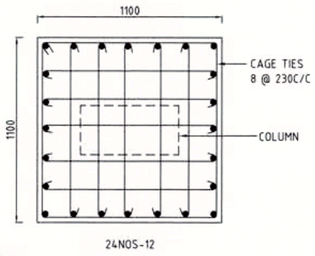


TYPICAL DETAIL OF LIFT WELL

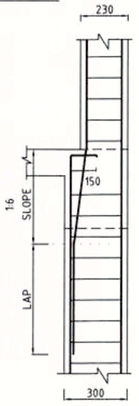


DETAIL OF FOOTING TYPE-F1 TO F7, F18, F20, F24, F25, F27

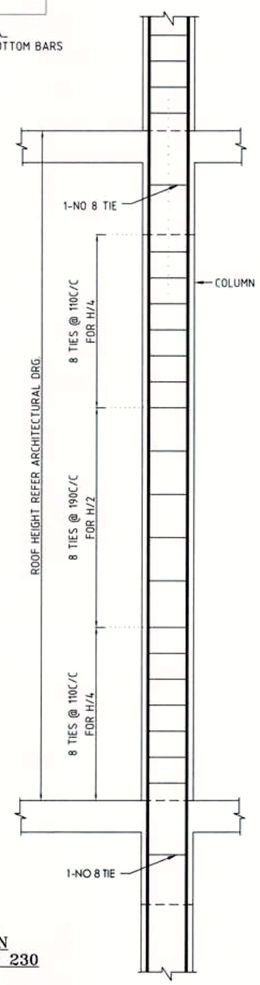
WITH PEDESTAL



SECTION OF AA



REBAR DETAIL IN ALL COLUMN TO WIDTH CHANGE FROM 300 TO 230



TYPICAL TIES ARRANGEMENT IN COLUMN

NOTES

* REFER SHEET NO-1

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DETAIL OF FOOTING & COLUMN SCHEDULE

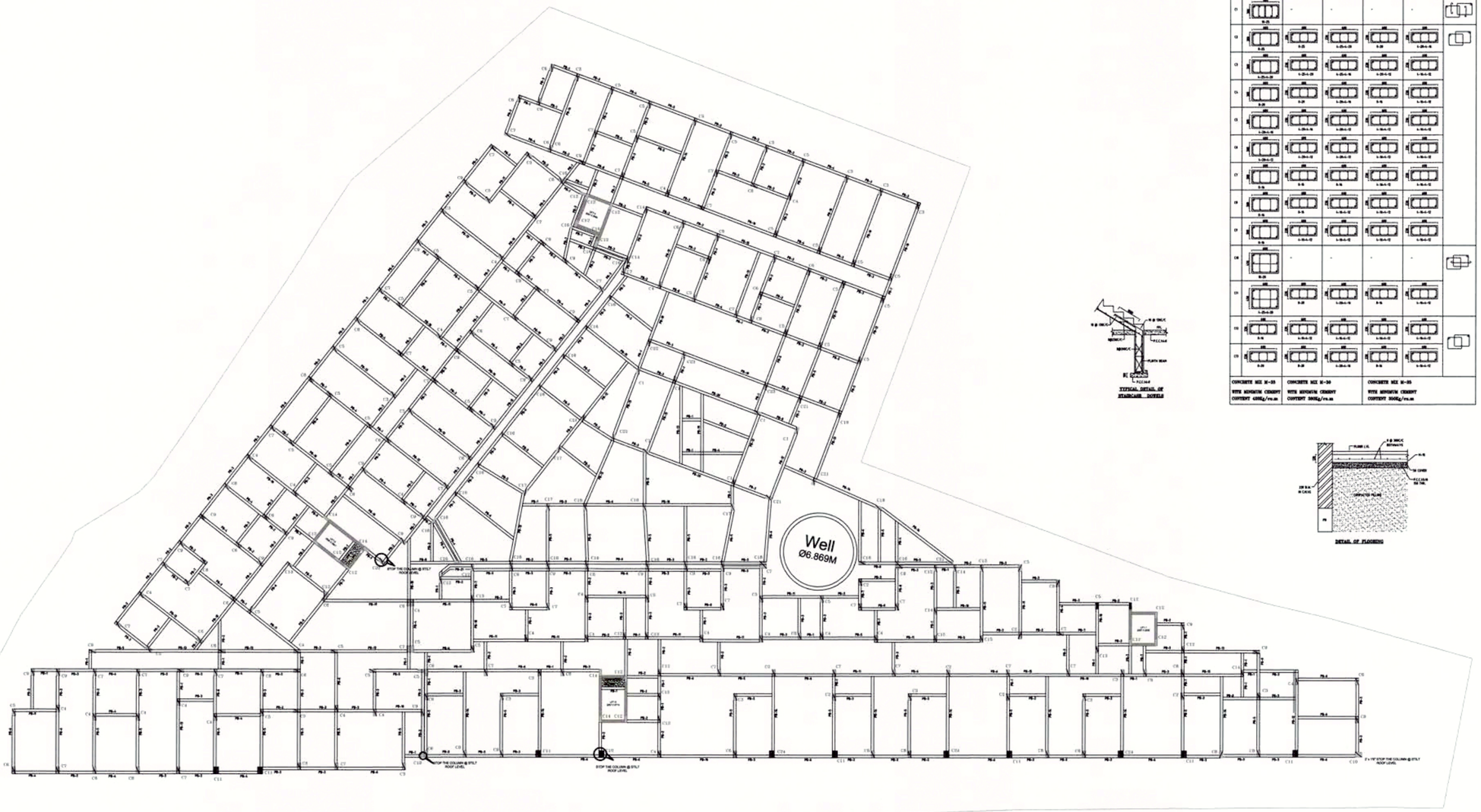
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SHEET:NO: 2

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DETAIL OF COLUMN SCHEDULE

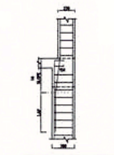
TYPE	STILT FLOOR	1ST FLOOR	2ND & 3RD FLOOR	4TH FLOOR	5TH FLOOR	TIES
C1	4-25	-	-	-	-	
C2	4-25	4-25	4-20+4-16	4-20	4-20+4-8	
C3	4-20+4-16	4-20+4-16	4-20+4-16	4-20+4-12	4-16+4-12	
C4	4-20	4-20	4-20+4-16	4-16+4-12	4-16+4-12	
C5	4-20+4-16	4-20+4-16	4-20+4-16	4-16+4-12	4-16+4-12	
C6	4-20+4-12	4-20+4-12	4-20+4-12	4-16+4-12	4-16+4-12	
C7	4-16	4-16	4-16+4-12	4-16+4-12	4-16+4-12	
C8	4-16+4-12	4-16+4-12	4-16+4-12	4-16+4-12	4-16+4-12	
C9	4-16	4-16	4-16+4-12	4-16+4-12	4-16+4-12	
C10	4-20	-	-	-	-	
C11	4-20+4-16	4-20	4-20+4-16	4-16+4-12	4-16+4-12	
C12	4-16	4-16+4-12	4-16+4-12	4-16+4-12	4-16+4-12	
C13	4-20	4-20	4-20+4-16	4-16	4-16+4-12	
	CONCRETE MIX M-35 WITH MINIMUM CEMENT CONTENT 420Kg/cu.m	CONCRETE MIX M-30 WITH MINIMUM CEMENT CONTENT 380Kg/cu.m		CONCRETE MIX M-35 WITH MINIMUM CEMENT CONTENT 350Kg/cu.m		

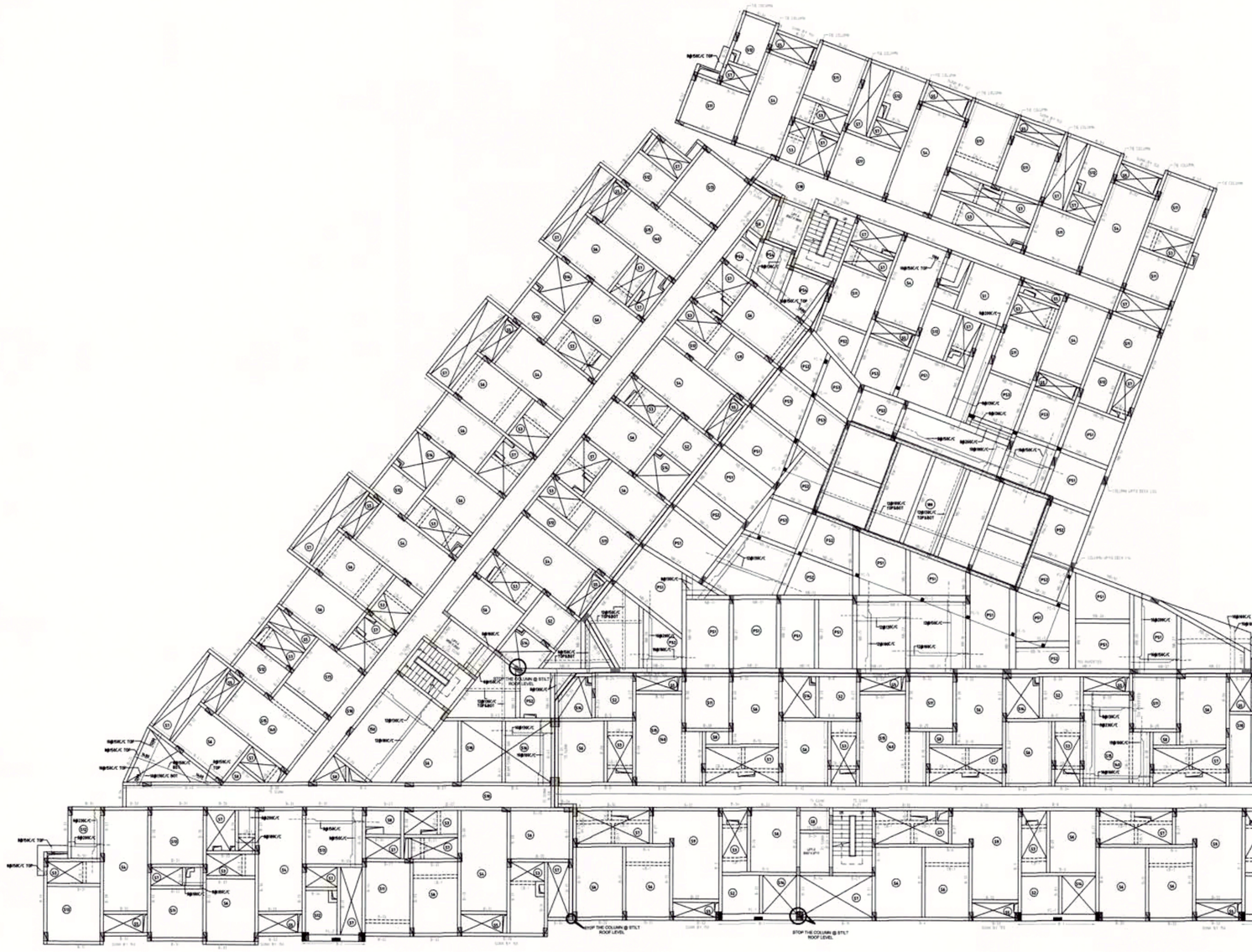
DETAIL OF COLUMN SCHEDULE

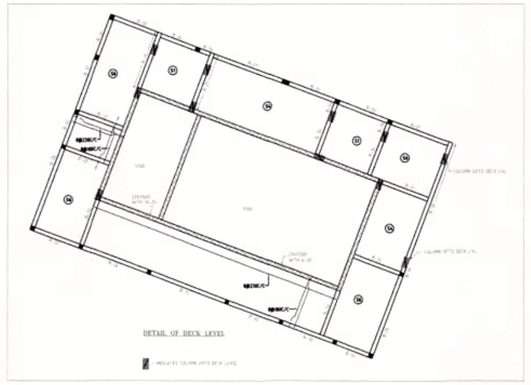
TYPE	STILT FLOOR	1ST FLOOR	2ND & 3RD FLOOR	4TH FLOOR	5TH FLOOR	TIES
C14	4-25	4-16+4-12	4-16+4-12	4-16+4-12	4-16+4-12	
C15	4-25	4-25	4-20+4-16	4-20	4-20+4-8	
C16	4-20	-	-	-	-	
C17	4-16	-	-	-	-	
C18	4-20+4-8	-	-	-	-	
C19	4-16	-	-	-	-	
C20	4-16	-	-	-	-	
C21	4-16	-	-	-	-	
C22	4-20	-	-	-	-	
C23	4-20+4-16	-	-	-	-	
C24	4-20+4-16	4-20+4-16	4-20+4-16	4-20+4-8	4-16	
	CONCRETE MIX M-35 WITH MINIMUM CEMENT CONTENT 420Kg/cu.m	CONCRETE MIX M-30 WITH MINIMUM CEMENT CONTENT 380Kg/cu.m		CONCRETE MIX M-35 WITH MINIMUM CEMENT CONTENT 350Kg/cu.m		

TYPICAL DETAIL OF STAIRCASE DOWELS

DETAIL OF FLOORING


230
150
150
150

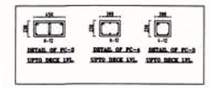




DETAIL OF DECK LEVEL

DETAIL OF FLOATING COLUMN

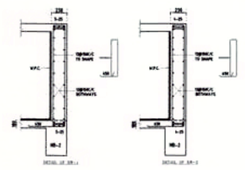
TYPE	1ST FLOOR	2ND FLOOR	3RD FLOOR	4TH FLOOR	5TH FLOOR
FC-1	300 / 1-2N-1-N	1-2N-1-N	1-2N-1-O	1-N-1-O	N-O
FC-2	300 / 1-2N-1-O	1-2N-1-O	1-N-1-O	1-N-1-O	N-O



DETAIL OF FC-2 UPTO DECK LVL

DETAIL OF FC-1 UPTO DECK LVL

DETAIL OF FC-3 UPTO DECK LVL

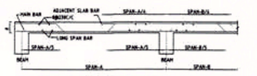


DETAIL OF SW-1

DETAIL OF SW-2

SLAB SCHEDULE

SLAB	TYPE	SHORT SPAN	LONG SPAN	REMARKS
S1	125	@ 190C/C	@ 190C/C	-
S2	125	@ 230C/C	@ 230C/C	-
S3	125	@ 170C/C	@ 190C/C	SUNKEN
S4	125	@ 230C/C	@ 230C/C	-
S5	125	@ 190C/C	@ 230C/C	SUNKEN
S6	125	@ 190C/C	@ 230C/C	SUNKEN
S7	125	@ 190C/C	@ 230C/C	SUNKEN
S8	125	@ 190C/C	@ 230C/C	STRAIGHT
S9	N.A	REFER PLAN	REFER PLAN	-
S10	125	@ 190C/C	@ 190C/C	SUNKEN
S11	125	@ 190C/C	@ 230C/C	-
S12	125	@ 230C/C	@ 230C/C	-
S13	N.A	@ 150C/C	@ 150C/C	-
S14	125	@ 190C/C	@ 190C/C	SUNKEN
S15	N.A	REFER PLAN	REFER PLAN	-
S16	125	@ 150C/C	@ 190C/C	SUNKEN
P21	150	@ 150C/C	@ 230C/C	SUNKEN
P22	150	@ 190C/C	@ 230C/C	SUNKEN
P23	150	@ 150C/C	@ 190C/C	SUNKEN



DETAIL OF SLAB BAR ANCHORAGE

SLAB/PL DETAILS

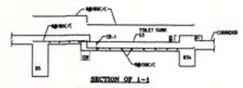
STILT FLOOR ROOF (PL – 100
CORRIDOR – 75
TOILET – 100
BALCONY – 175
PODIUM – 100
1ST FLOOR PRIVATE TERRACE – 150
5TH FLOOR PRIVATE TERRACE – 50

ALL DIMENSIONS ARE IN MM, REFER ARCHITECTURAL DRAWING

SC – INDICATES TIE COLUMN



TYPICAL DETAIL OF DROPS



SECTION OF 1-1

TYPICAL DETAIL OF TOILET SUNKEN

NOTES

- CONCRETE MIX SHOULD BE M-35 WITH MINIMUM CEMENT CONTENT 320 kg/cu.m UNLESS SPECIFIED
- ALL SLAB SHOULD BE 125 mm UNLESS SPECIFIED
- CLEAR COVER TO THE MAIN REINFORCEMENT FOR COLUMN-25, BEAM-25, SLAB-20
- STEEL SHOULD BE OF GRADE Fe500
- LAP LENGTH FOR REBARS-50d, EXCEPT COLUMN-40d
- NOT MORE THAN 50% OF BARS LAPPED AT ONE POINT
- CONDUIT PIPES SHOULD NOT GO THROUGH COLUMNS
- BUILDING DESIGNED FOR G+5 SUPPER FLOORS
- REFER SOIL REPORT FOR SUGGESTED PRECAUTIONS
- BUILDING DESIGNED FOR SEISMIC ZONE-III

TITLE:

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30M) RESIDENTIAL BUILDING WITH 114 DWELLING UNITS (AFFORDABLE HOUSING) (SWIMMING POOL, INDOOR GAMES ROOM, ASSOCIATION ROOM, TABLE TENNIS & SNOOKER ROOM, VIDEO GAMES ROOM, CRECHE, GYM AND HOME THEATRE ROOM) AT T.A.F ROAD, SELAIYUR, CHENNAI COMPRISED IN S.Nos.237/1, 237/4A, 238/3A & 239/1A, T.S.No. 25/1, 25/4, 25/3, 25/2, BLOCK NO.26, OF SELAIYUR VILLAGE, TAMBARAM TALUK, WITHIN THE LIMIT OF TAMBARAM MUNICIPAL CORPORATION.

DETAIL OF STILT FLOOR ROOF

NORTH POINT

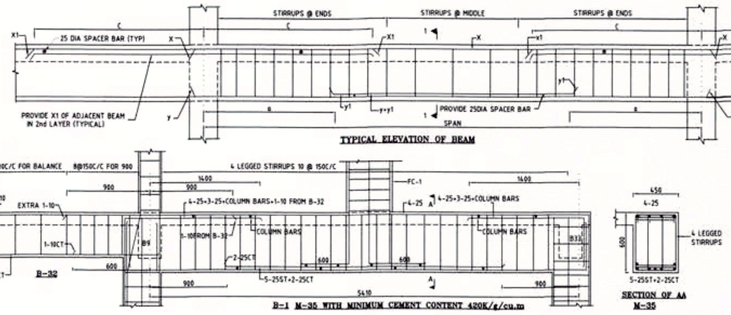
DATE: 13.2.24

SCALE: 1/100

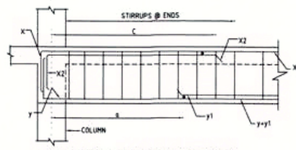
SHEET NO.: 4

STRUCTURAL CONSULTANT

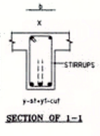
PRAJEETHPRAKASH, B.E., M.I.E
Structural Engineer
Reg. No. SE/GR-III/19/04/042
B/50,Ashraya Block-C, Flat-2C,
Pillayar Koil Street, Thuraipakkam,
Chennai - 600 097.



TYPICAL ELEVATION OF BEAM



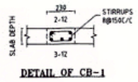
TYPICAL ELEVATION OF END BEAM (PART)



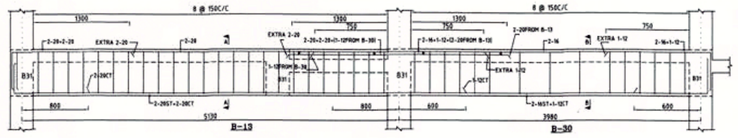
SECTION OF 1-1

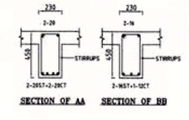
B-1 M-35 WITH MINIMUM CEMENT CONTENT 420K/c/cu.m

SECTION OF AA
M-35

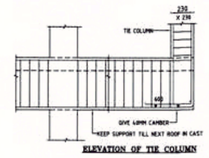


DETAIL OF CB-1





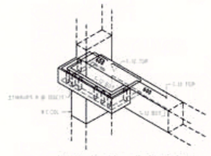
SECTION OF AA SECTION OF BB



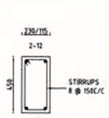
ELEVATION OF TIE COLUMN



DETAIL OF TIE COLUMN IN ALL FLOORS



ISOMETRIC VIEW OF DUCT BEAM



DETAIL OF DUCT BEAM

BEAM SCHEDULE FOR TYPICAL FLOOR ROOF

BEAM NO:	SECTION b x d	REINFORCEMENT					FOR CONTINUOUS BEAM AT SUPPORT TOP (x1)	FOR DISCONTINUOUS & CANTILEVER BEAM AT SUPPORT TOP (x2)	STIRRUPS		REMARKS
		BOTTOM (y)	BOTTOM (y1)	TOP (x)	a	c			END SPAN	MIDDLE SPAN	
B-1 M35	450 X 600	5-25	2-25 IN 2ND LAYER	4-25	900	1400+1400	3-25 IN 2ND LAYER	3-25 IN 2ND LAYER	10 @ 150C/C	10 @ 150C/C	
B-2 M35	450 X 600	4-25	2-25 IN 2ND LAYER	4-25	700	1100+1100	2-25	2-25	10 @ 150C/C	10 @ 150C/C	
B-3	230 X 600	3-25	2-25 IN 2ND LAYER	2-25	1200	1900+1900	3-25 IN 2ND LAYER	3-25 IN 2ND LAYER	10 @ 125C/C	10 @ 125C/C	
B-4	230 X 600	2-25	2-25 IN 2ND LAYER	2-25	1100	1700+1700	2-25 IN 2ND LAYER	2-25 IN 2ND LAYER	10 @ 150C/C	10 @ 150C/C	
B-5	230 X 600	2-20	2-20	2-20	900	1400+1400	2-20	2-20	8 @ 150C/C	8 @ 150C/C	
B-6	230 X 600	2-25	1-25	2-20	800	1300+1300	2-25	2-25	8 @ 125C/C	8 @ 125C/C	
B-7	230 X 600	2-16	2-16	2-16	800	1300+1300	2-16	2-16	8 @ 125C/C	8 @ 125C/C	
B-8	230 X 600	2-20	1-20	2-20	900	1400+1400	1-20	1-20	8 @ 150C/C	8 @ 150C/C	
B-9	230 X 600	2-20	1-25	2-20	1100	1700+1700	1-25	1-25	8 @ 150C/C FOR 1800	8 @ 300C/C	
B-10	230 X 450	2-20	1-20	2-20	900	1400+1400	1-20	1-20	8 @ 150C/C FOR 1400	8 @ 300C/C	
B-11	230 X 450	2-16	2-16	2-16	800	1300+1300	2-16	2-16	8 @ 150C/C FOR 1300	8 @ 300C/C	
B-12	230 X 450	2-16	1-16	2-16	800	1200+1200	2-16	2-16	8 @ 150C/C FOR 1200	8 @ 300C/C	
B-13	230 X 450	2-20	2-20	2-20	800	1300+1300	2-20	2-20	8 @ 150C/C	8 @ 150C/C	
B-14	230 X 600	2-20	2-20	2-20	1000	1600+1600	2-25	2-25	10 @ 125C/C	10 @ 125C/C	
B-15	230 X 600	2-25	1-25	2-20	1200	1900+1900	2-25	2-25	8 @ 150C/C	8 @ 150C/C	
B-16	230 X 600	2-20	2-20	2-20	600	1100+1100	2-20	2-20	10 @ 125C/C	10 @ 125C/C	
B-17	230 X 600	3-25	-	2-25 1ST LAYER+ 2-25 2ND LAYER	-	-	-	-	10 @ 100C/C	10 @ 100C/C	
B-18	230 X 600	3-25	-	2-25 1ST LAYER+ 2-25 2ND LAYER	-	-	-	-	10 @ 125C/C	10 @ 125C/C	
B-19	230 X 750	3-25	-	3-25 1ST LAYER+ 2-25 2ND LAYER	-	-	-	-	10 @ 100C/C	10 @ 100C/C	
B-20	230 X 600	3-25	2-25 IN 2ND LAYER	3-25	1500	2250+2250	2-25 IN 2ND LAYER	2-25 IN 2ND LAYER	10 @ 150C/C	10 @ 150C/C	PROVIDE 40MM CAMBER AT MID SPAN
B-21	230 X 450	2-16	-	3-16	-	-	-	-	8 @ 125C/C	8 @ 125C/C	
B-22	230 X 600	2-25+1-20	-	2-25 1ST LAYER+ 2-25 2ND LAYER	-	-	-	-	10 @ 150C/C	10 @ 150C/C	
B-23	230 X 450	2-25	-	3-25	-	-	-	-	10 @ 125C/C	10 @ 125C/C	
B-24	230 X 450	3-20	-	3-25	-	-	-	-	10 @ 125C/C	10 @ 125C/C	
B-25	230 X 450	2-20	-	3-20	-	-	-	-	8 @ 125C/C	8 @ 125C/C	
B-26	230 X 450	2-16	1-16	2-16	750	1150+1150	1-16	1-16	8 @ 150C/C FOR 1150	8 @ 300C/C	
B-27	230 X 450	2-16	-	2-16	-	-	-	-	8 @ 150C/C	8 @ 150C/C	
B-28	230 X 600	2-20+1-16	-	2-20	-	750+750	1-16	1-16	8 @ 150C/C	8 @ 150C/C	
B-29	230 X 450	2-16	1-16	2-16	600	750+750	1-16	1-16	8 @ 150C/C	8 @ 150C/C	
B-30	230 X 450	2-16	1-12	2-16	600	750+750	1-12	1-12	8 @ 150C/C	8 @ 150C/C	

BEAM SCHEDULE FOR TYPICAL FLOOR ROOF

BEAM NO	SECTION b x d	REINFORCEMENT					FOR CONTINUOUS BEAM AT SUPPORT TOP (x1)	FOR DISCONTINUOUS & CANTILEVER BEAM AT SUPPORT TOP (x2)	STIRRUPS		REMARKS
		BOTTOM (y)	BOTTOM (y1)	TOP (x)	a	c			END SPAN	MIDDLE SPAN	
B-31	230 X 450	2-12	1-12	2-12	600	1000+1000	1-12	1-12	8 @ 150C/C FOR 1000	8 @ 300C/C	
B-32	230 X 450	2-10	1-10	2-10	600	900+900	1-10	1-10	8 @ 180C/C FOR 900	8 @ 300C/C	
B-33	230 X 450	2-12	-	2-12	-	-	-	-	8 @ 180C/C	8 @ 180C/C	
B-34	230 X 450	2-12	-	2-10	-	-	-	-	8 @ 180C/C	8 @ 180C/C	
B-35	230 X 450	2-20	1-25	2-20	700	1100+1100	1-25	1-25	8 @ 125C/C	8 @ 125C/C	
B-36	230 X 600	2-25	1-25	2-25	1000	1500+1500	1-25	1-25	8 @ 125C/C	8 @ 125C/C	
B-37	230 X 600	2-25	2-20	2-20	1100	1650+1650	2-25	2-25	8 @ 125C/C	8 @ 125C/C	
B-38	230 X 600	2-25	1-25	2-25	900	1400+1400	1-25	1-25	8 @ 150C/C	8 @ 150C/C	
B-39	230 X 600	2-20	2-20	2-20	1100	1600+1600	2-20	2-20	8 @ 150C/C	8 @ 150C/C	
B-40	230 X 600	3-20	-	4-20	-	-	-	-	8 @ 150C/C	8 @ 150C/C	
B-41	230 X 450	2-20	1-20	2-20	750	1150+1150	1-20	1-20	8 @ 150C/C	8 @ 150C/C	
B-42	230 X 600	3-25	2-25 IN 2ND LAYER	2-25	1250	1900+1900	2-25 IN 2ND LAYER	2-25 IN 2ND LAYER	10 @ 100C/C	10 @ 100C/C	
B-43	230 X 600	2-20	2-20	2-20	1000	1600+1600	2-20	2-20	8 @ 150C/C FOR 1650	8 @ 300C/C	
B-44	230 X 600	2-16	2-16	2-16	800	1300+1300	2-16	2-16	8 @ 150C/C FOR 1350	8 @ 300C/C	
B-45	230 X 450	2-16	1-16	2-16	600	1100+1100	1-16	1-16	8 @ 150C/C FOR 1050	8 @ 300C/C	
B-46	230 X 450	2-20	1-20	2-20	600	1000+1000	1-20	1-20	8 @ 150C/C	8 @ 150C/C	
B-47	230 X 600	2-32+1-25	-	2-32 1ST LAYER+ 2-32 2ND LAYER	-	-	-	-	10 @ 125C/C	10 @ 125C/C	PROVIDE 40MM CAMBER AT FREE END
B-48	230 X 450	2-16	1-20	2-16	600	1000+1000	1-20	1-20	8 @ 150C/C	8 @ 150C/C	
B-49	230 X 450	2-20	2-20	2-20	750	1300+1300	2-20	2-20	8 @ 150C/C	8 @ 150C/C	
B-50	230 X 600	2-32+1-25	-	2-32 1ST LAYER+ 2-32 2ND LAYER	-	-	-	-	10 @ 110C/C	10 @ 110C/C	PROVIDE 40MM CAMBER AT FREE END
B-51	230 X 450	2-16	1-20	2-16	600	1100+1100	1-20	1-20	8 @ 150C/C	8 @ 150C/C	
B-52	230 X 600	3-25	2-25 IN 2ND LAYER	2-25	1500	2250+2250	3-25 IN 2ND LAYER	3-25 IN 2ND LAYER	10 @ 125C/C	10 @ 125C/C	PROVIDE 40MM CAMBER AT FREE END
B-53	230 X 450	2-20	1-25	2-20	700	1100+1100	1-25	1-25	8 @ 150C/C	8 @ 150C/C	
B-54	230 X 600	2-20	1-20	2-20	600	900+900	1-20	1-20	8 @ 150C/C	8 @ 150C/C	
B-55	230 X 600	2-20	1-25	2-20	900	1450+1450	1-25	1-25	8 @ 150C/C	8 @ 150C/C	
B-56	230 X 600	2-20	1-20	2-20	600	900+900	1-20	1-20	8 @ 125C/C	8 @ 125C/C	
B-57	230 X 600	2-20	1-20	2-20	800	1250+1250	2-20	2-20	8 @ 150C/C	8 @ 150C/C	
B-58	230 X 375	2-12	-	2-12	-	-	-	-	8 @ 180C/C	8 @ 180C/C	
B-59	230 X 600	2-20	2-16	2-16	750	1300+1300	2-20	2-20	8 @ 165C/C	8 @ 165C/C	
BRKT	450 X 600	4-25	-	6-25	-	-	-	-	4 LEG. 10 @ 100C/C	4 LEGGED 10 @ 100C/C	PROVIDE 40MM CAMBER AT FREE END

BEAM SCHEDULE FOR TYPICAL FLOOR ROOF

BEAM NO	SECTION b x d	REINFORCEMENT					FOR CONTINUOUS BEAM AT SUPPORT TOP (x1)	FOR DISCONTINUOUS & CANTILEVER BEAM AT SUPPORT TOP (x2)	STIRRUPS		REMARKS
		BOTTOM (y)	BOTTOM (y1)	TOP (x)	a	c			END SPAN	MIDDLE SPAN	
NB-1	300 X 750	3-32 1ST LAYER+ 1-32 2ND LAYER	2-32	2-32 1ST LAYER+ 2-32 2ND LAYER	1400	2150+2150	1-32 IN 1ST LAYER+ 1-32 IN 2ND LAYER	1-32 IN 1ST LAYER+ 1-32 IN 2ND LAYER	12 @ 125C/C	12 @ 125C/C	PROVIDE 40MM CAMBER AT MID SPAN
NB-2	300 X 600	4-25	-	4-25	-	-	-	-	10 @ 125C/C	10 @ 125C/C	
NB-3	300 X 600	2-32	2-32	2-32	1100	1700+1700	2-32 IN 2ND LAYER	2-32 IN 2ND LAYER	12 @ 125C/C	12 @ 125C/C	PROVIDE 40MM CAMBER AT MID SPAN
NB-4	300 X 600	2-25+2-20	-	2-25+2-20	-	-	-	-	10 @ 150C/C	10 @ 150C/C	
NB-5	450 X 600	4-32	2-32 IN 2ND LAYER	2-32+2-25	1200	1900+1900	4-32 IN 2ND LAYER	4-32 IN 2ND LAYER	4 LEG. 10 @ 150C/C	4 LEGGED 10 @ 150C/C	PROVIDE 40MM CAMBER AT MID SPAN
NB-6	450 X 600	3-32	2-32	2-32+2-25	1250	1900+1900	3-32 IN 2ND LAYER	3-32 IN 2ND LAYER	4 LEG. 8 @ 125C/C	4 LEGGED 8 @ 125C/C	PROVIDE 40MM CAMBER AT MID SPAN
NB-7	300 X 600	2-32	2-32	2-32	1100	1800+1800	2-32 IN 2ND LAYER	2-32 IN 2ND LAYER	12 @ 125C/C	12 @ 125C/C	
NB-8	300 X 600	2-32	2-32	2-32	1000	1500+1500	2-32 IN 2ND LAYER	2-32 IN 2ND LAYER	12 @ 125C/C	12 @ 125C/C	
NB-9	300 X 600	3-32	-	3-32	-	-	-	-	10 @ 125C/C	10 @ 125C/C	
NB-10	300 X 600	2-32	2-32	2-32	1100	1800+1800	2-32 IN 2ND LAYER	2-32 IN 2ND LAYER	12 @ 125C/C	12 @ 125C/C	
NB-11	450 X 600	4-32	3-32 IN 2ND LAYER	4-32	1300	1950+1950	3-32 IN 2ND LAYER	3-32 IN 2ND LAYER	4 LEG. 10 @ 150C/C	4 LEGGED 10 @ 150C/C	PROVIDE 40MM CAMBER AT MID SPAN
NB-12	300 X 600	2-32	2-32 IN 2ND LAYER	2-32	1100	1650+1650	2-32 IN 2ND LAYER	2-32 IN 2ND LAYER	12 @ 125C/C	12 @ 125C/C	
NB-13	300 X 600	2-25	2-25	2-25	900	1350+1350	2-25	2-25	10 @ 150C/C	10 @ 150C/C	
NB-14	450 X 600	3-25	2-25	2-25	1000	1600+1600	2-25	2-25	10 @ 125C/C	10 @ 125C/C	
NB-15	450 X 600	2-25	1-25	2-25	800	1250+1250	1-25	1-25	10 @ 150C/C	10 @ 150C/C	
NB-16	450 X 600	4-20	-	2-20	-	1000+1000	2-20	2-20	8 @ 125C/C	8 @ 125C/C	
NB-17	450 X 600	2-25	1-25	2-25	900	1450+1450	1-25	1-25	10 @ 150C/C	10 @ 150C/C	
NB-18	300 X 600	2-25	2-25	2-25	600	1300+1300	2-25	2-25	10 @ 150C/C	10 @ 150C/C	
NB-19	300 X 600	2-25	1-25	2-25	600	1100+1100	1-25	1-25	10 @ 150C/C	10 @ 150C/C	
NB-20	300 X 600	2-25	2-25	2-25	900	1450+1450	2-25	2-25	10 @ 150C/C	10 @ 150C/C	
NB-21	300 X 600	3-25	2-25 IN 2ND LAYER	2-25	1000	1600+1600	3-25 IN 2ND LAYER	3-25 IN 2ND LAYER	10 @ 125C/C	10 @ 125C/C	
NB-22	300 X 600	2-20	1-25	2-20	800	1300+1300	1-25	1-25	8 @ 150C/C	8 @ 150C/C	
NB-23	300 X 600	2-32	2-25	2-25	850	1300+1300	2-25	2-25	12 @ 150C/C	12 @ 150C/C	
NB-24	300 X 600	2-25	1-25	2-25	800	1300+1300	1-25	1-25	10 @ 150C/C	10 @ 150C/C	
NB-25	300 X 600	2-20	1-20	2-20	800	1200+1200	1-20	1-20	8 @ 150C/C FOR 1200	8 @ 300C/C	
NB-26	300 X 600	2-16	2-16	2-16	700	1100+1100	2-16	2-16	8 @ 150C/C FOR 1000	8 @ 300C/C	
NB-27	300 X 600	2-16	2-16	2-16	700	1100+1150	2-16	2-16	8 @ 150C/C FOR 1000	8 @ 300C/C	
NB-28	300 X 600	2-16	1-20	2-16	600	1000+1000	1-20	1-20	8 @ 150C/C FOR 1000	8 @ 300C/C	
NB-29	300 X 450	2-16	2-16	2-16	600	900+900	2-16	2-16	8 @ 150C/C FOR 900	8 @ 200C/C	
NB-30	300 X 600	3-25	-	2-25	-	900+900	1-25	1-25	10 @ 150C/C	10 @ 150C/C	
NB-31	300 X 600	2-16	1-12	2-16	600	900+900	1-12	1-12	8 @ 150C/C FOR 900	8 @ 300C/C	
NB-32	300 X 600	2-16	-	2-16	-	900+900	-	-	8 @ 150C/C	8 @ 150C/C	
NB-33	300 X 600	2-25	2-25	2-25	800	1200+1200	2-25	2-25	10 @ 150C/C	10 @ 150C/C	
NB-34	300 X 600	2-32	2-25	2-25	800	1200+1200	2-32	2-32	12 @ 125C/C	12 @ 125C/C	
NB-35	230 X 600	2-16	2-16	2-16	600	900+900	2-16	2-16	8 @ 150C/C	8 @ 150C/C	
NB-36	230 X 600	2-20	-	2-20	-	-	-	-	8 @ 150C/C	8 @ 150C/C	
NB-37	230 X 600	2-16	2-16	2-16	600	1000+1000	2-16	2-16	8 @ 150C/C	8 @ 150C/C	
NB-38	230 X 600	2-16	1-20	2-16	600	1000+1000	1-20	1-20	8 @ 150C/C	8 @ 150C/C	
NB-39	300 X 450	2-20	-	2-20	-	-	-	-	8 @ 150C/C	8 @ 150C/C	
NB-40	230 X 450	2-16	-	2-16	-	-	-	-	8 @ 150C/C	8 @ 150C/C	

NOTES

* REFER SHEET NO-4

TITLE:

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-18.30M) RESIDENTIAL BUILDING WITH 114 DWELLING UNITS (AFFORDABLE HOUSING) (SWIMMING POOL, INDOOR GAMES ROOM, ASSOCIATION ROOM, TABLE TENNIS & SNOOKER ROOM, VIDEO GAMES ROOM, CRECHE, GYM AND HOME THEATRE ROOM) AT I.A.F ROAD, SELAIYUR, CHENNAI COMPRISED IN S.Nos.237/1, 237/4A, 238/3A & 239/1A, T.S.No. 25/1, 25/4, 25/3, 25/2, BLOCK NO.26, OF SELAIYUR VILLAGE, TAMBARAM TALUK, WITHIN THE LIMIT OF TAMBARAM MUNICIPAL CORPORATION.

DETAIL OF ROOF BEAM

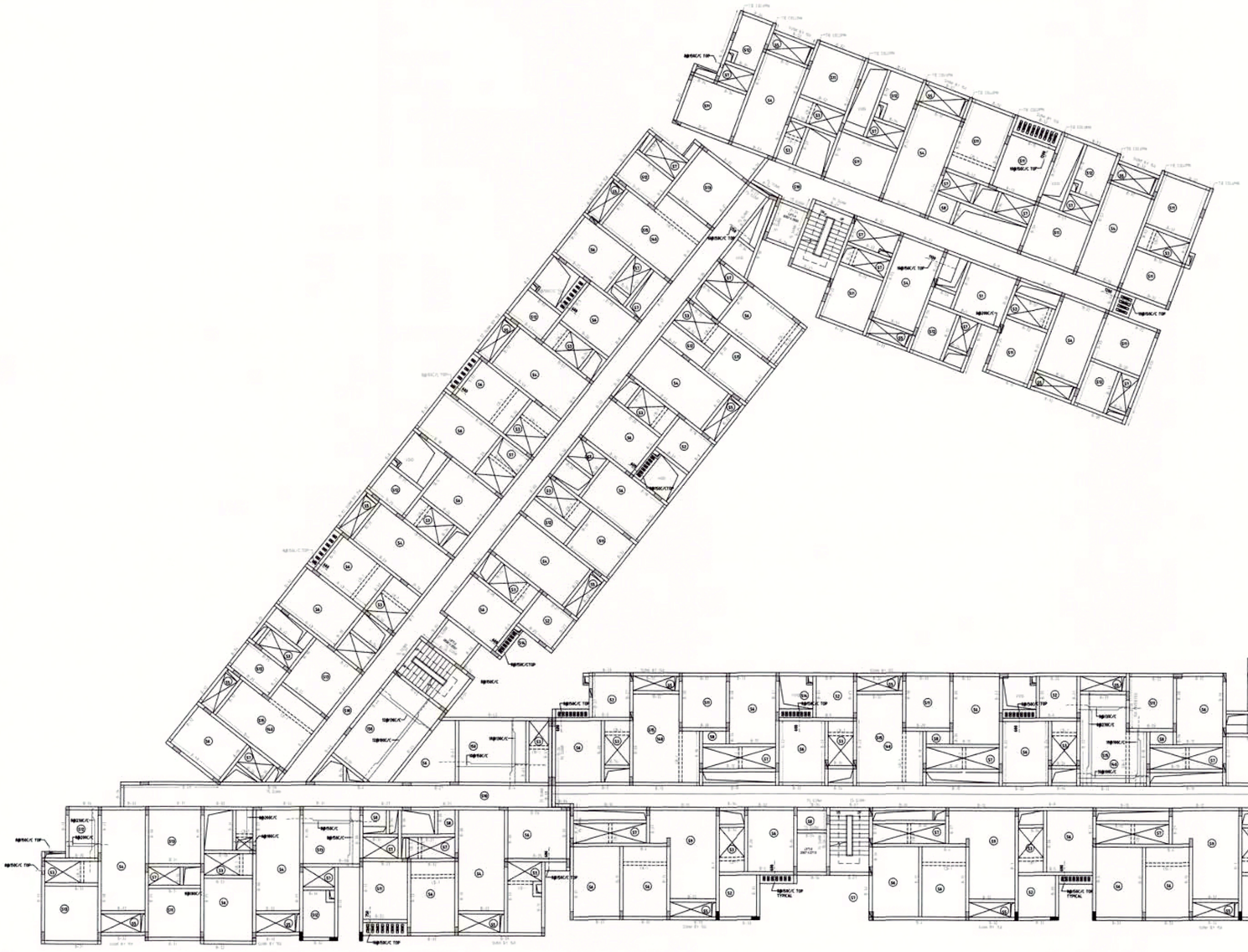
DATE: 13.3.24

SCALE: 1/100

SHEET NO: 6

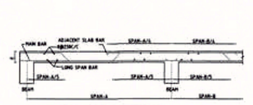
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SLAB SCHEDULE

SLAB	THK.	SHORT SPAN	LONG SPAN	REMARKS
S1	125	# @ 180C/C	# @ 180C/C	-
S2	125	# @ 200C/C	# @ 200C/C	-
S3	125	# @ 170C/C	# @ 180C/C	DUMMY
S4	125	# @ 170C/C	# @ 230C/C	-
S5	125	# @ 180C/C	# @ 230C/C	DUMMY
S6	125	# @ 150C/C	# @ 200C/C	-
S7	125	# @ 150C/C	# @ 180C/C	DUMMY
S8	125	# @ 180C/C	# @ 230C/C	STRAIGHT
S9	140	REFER PLAN	REFER PLAN	-
S10	125	# @ 180C/C	# @ 230C/C	DUMMY
S11	125	# @ 200C/C	# @ 230C/C	-
S12	125	# @ 200C/C	# @ 230C/C	-
S13	140	# @ 150C/C	# @ 150C/C	-
S14	125	# @ 180C/C	# @ 180C/C	DUMMY
S15	140	REFER PLAN	REFER PLAN	-



DETAIL OF SLAB BAR ANCHORAGE

SUNSHADE DETAILS

STILT FLOOR ROOF SFS - 120
CORRIDOR - 75
TOILET - 100
BALCONY - 175
5TH FLOOR PRIVATE TERRACE - 50

BEAM DETAILS REFER SHEET NO-6

* ALL DIMENSIONS IN MM, REFER ARCHITECTURAL DRAWING
XX - INDICATES TIE COLUMN

NOTES

- CONCRETE MIX SHOULD BE M-25 WITH MINIMUM CEMENT CONTENT 350 kg/cu.m UNLESS SPECIFIED
- ALL SLAB SHOULD BE 125 THK UNLESS SPECIFIED
- CLEAR COVER TO THE MAIN REINFORCEMENT FOR COLUMN-25, BEAM-25, SLAB-20
- STEEL SHOULD BE OF GRADE Fe500
- LAP LENGTH FOR REBARS-50Ø, EXCEPT COLUMN-40Ø
- NOT MORE THAN 50% OF BARS LAPPED AT ONE POINT
- CONDUIT PIPES SHOULD NOT GO THROUGH COLUMNS
- BUILDING DESIGNED FOR G+5 UPPER FLOORS
- REFER SOIL REPORT FOR SUBSTITE PRECAUTIONS
- BUILDING DESIGNED FOR SEISMIC ZONE-III

TITLE:

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT FLOOR + 5 FLOORS (HEIGHT-16.30M) RESIDENTIAL BUILDING WITH 114 DWELLING UNITS (AFFORDABLE HOUSING) (SWIMMING POOL, INDOOR GAMES ROOM, ASSOCIATION ROOM, TABLE TENNIS & SNOOKER ROOM, VIDEO GAMES ROOM, CRECHE, GYM AND HOME THEATRE ROOM) AT I.A.F ROAD, SELAIYUR, CHENNAI COMPRISED IN S.Nos.237/1, 237/4A, 238/3A & 239/1A, T.S.No. 25/1, 25/4, 25/3, 25/2, BLOCK NO.26, OF SELAIYUR VILLAGE, TAMBARAM TALUK, WITHIN THE LIMIT OF TAMBARAM MUNICIPAL CORPORATION.

DETAIL OF TYPICAL FLOOR ROOF

NORTH POINT

DATE: 13.3.24
SCALE: 1:100
SHEET NO: 6

STRUCTURAL CONSULTANT

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