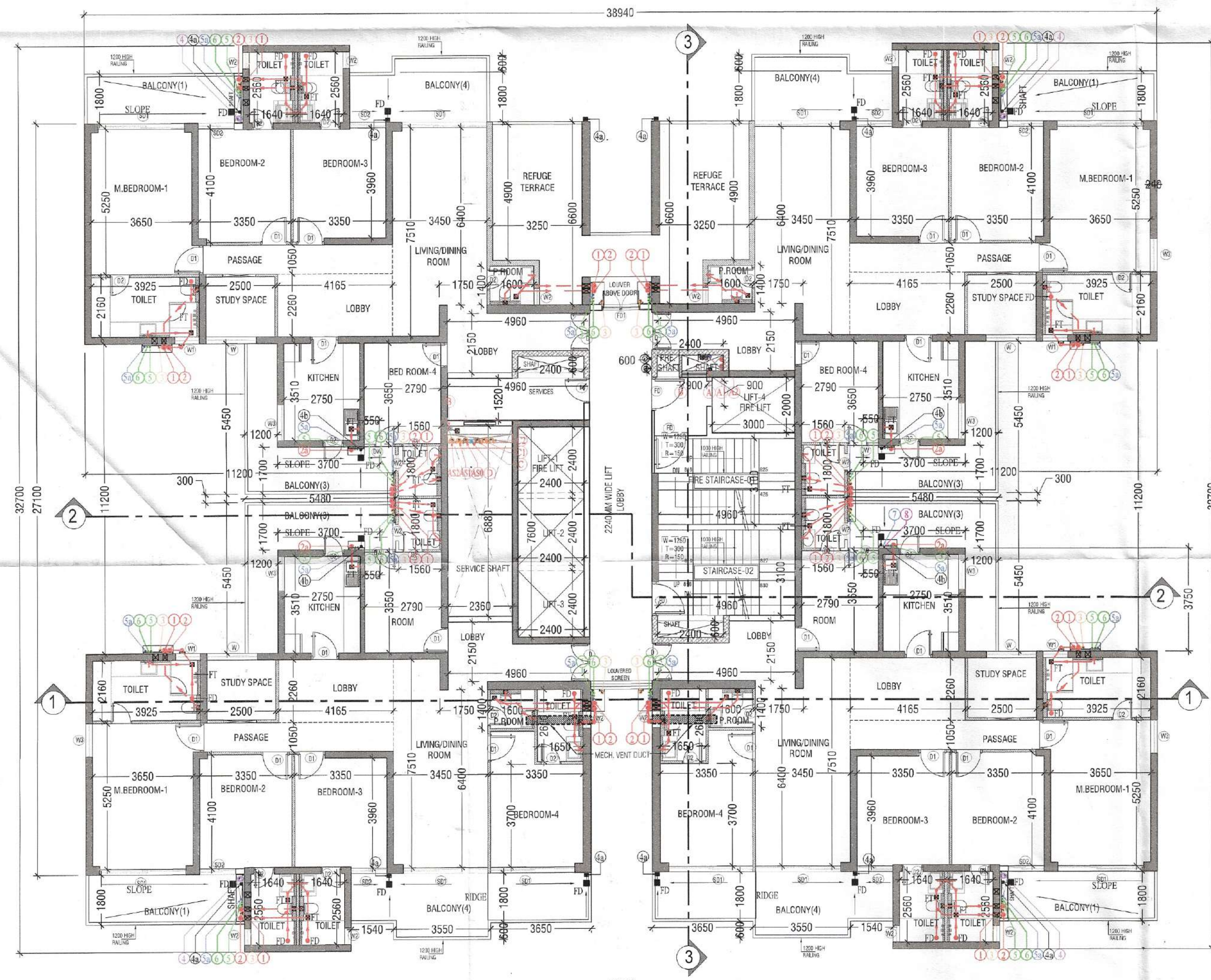


REFUGE FLOOR FAR AREA PLAN



REFUGE(33RD) FLOOR PLAN

REFUGE FLOOR AREA CALCULATIONS (33RD)

FLOOR PLATE AREA				
S. No.	COEFF.	WIDTH	LENGHT	NO.   AREA IN SQMT
1	1	3.880	2.800	4   43.456
1a	1	0.320	0.100	4   0.128
2	1	18.370	7.950	4   584.186
3	1	4.280	3.750	4   64.200
4	1	2.200	1.350	1   2.970
5	1	16.400	11.200	1   183.680
6	1	2.200	3.950	1   8.690
<b>TOTAL FLOOR PLATE AREA (X)</b>				<b>887.290</b>

NON F.A.R. AREA

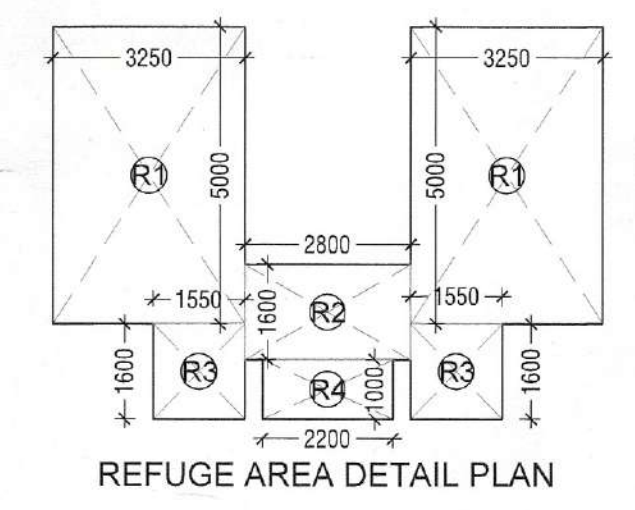
D1	1	2.400	0.600	3   4.320
D2	1	3.000	2.200	1   6.600
D3	1	2.360	6.880	1   16.237
D4	1	2.400	7.600	1   18.240
N1	1	4.960	3.100	2   30.752
N2	1	2.100	2.200	1   4.620
N3	1	4.960	1.520	1   7.539
R1	1	3.200	5.000	2   32.000
R2	1	2.200	1.600	1   3.520
R3	1	1.550	1.600	2   4.960
R4	1	2.200	1.000	1   2.200
<b>TOTAL NON F.A.R. AREA (Y)</b>				<b>130.988</b>

BALCONY NON F.A.R. AREA

B1	1	5.430	1.800	4   39.096
B2	1	8.740	1.800	2   31.464
B3	1	5.480	1.700	4   37.264
B3a	1	3.750	1.200	4   18.000
B4	1	5.090	1.800	2   18.324
<b>TOTAL BALCONY NON F.A.R. AREA (BN)</b>				<b>144.148</b>

BALCONY UNDER F.A.R. AREA

B2A	1	3.550	0.600	4   8.520
<b>TOTAL BALCONY NON F.A.R. AREA (BN+BF)</b>				<b>152.668</b>
<b>TOTAL F.A.R. = (X - Y) + BF</b>				<b>764.822</b>
<b>TOTAL NON F.A.R. = Y + BN</b>				<b>275.136</b>



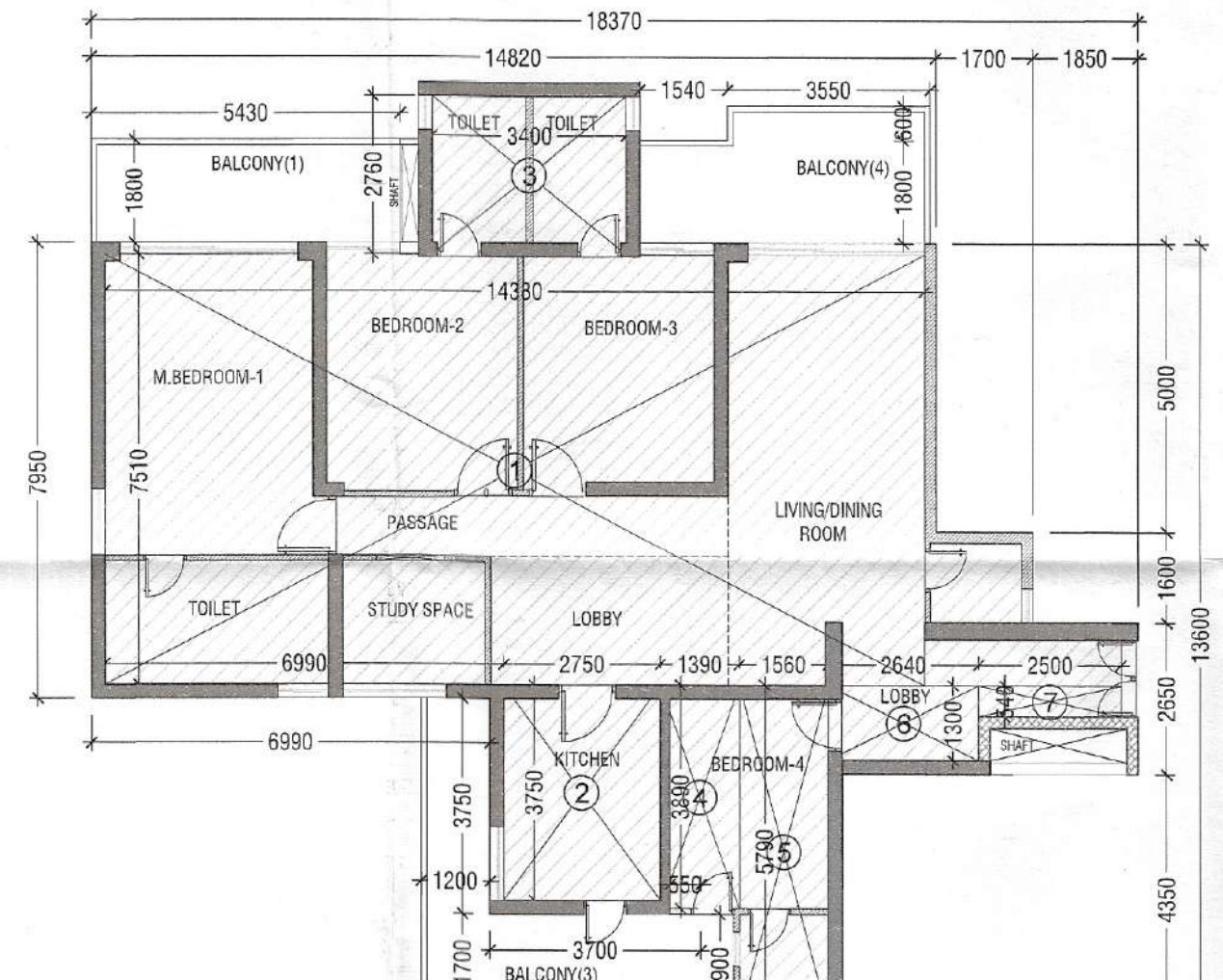
REFUGE AREA DETAIL PLAN

REFUGE AREA CALCULATIONS

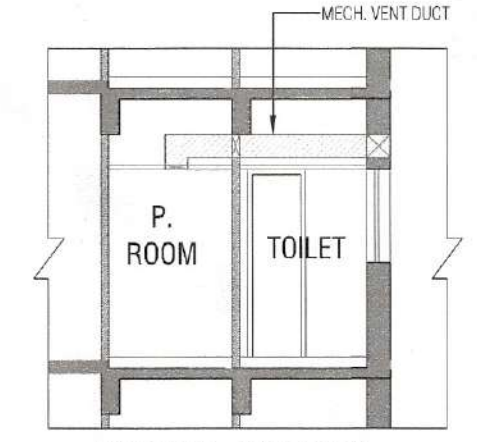
R1	1	3.250	5.000	2   32.500
R2	1	2.800	1.600	1   4.480
R3	1	1.550	1.600	2   4.960
R4	1	2.200	1.000	1   2.200
<b>TOTAL REFUGE AREA (C1)</b>				<b>64.740</b>

16th, 24th, 33rd Floor Refuge Area Calculations

Floor Plate Area	x2	881.57 sqm
Occupancy (Area/person)		12,500 sqm
Persons		141,051
Refuge area required @ 0.3sqm/per.		42,315 sqm
Area for wheel Chair @ 0.9/200per		0,900 sqm
<b>Total Refuge Area Required</b>		<b>43,215 sqm</b>
<b>Refuge Area Provided</b>		<b>44,140 sqm</b>



UNIT PLAN (REFUGE - 4BHK)



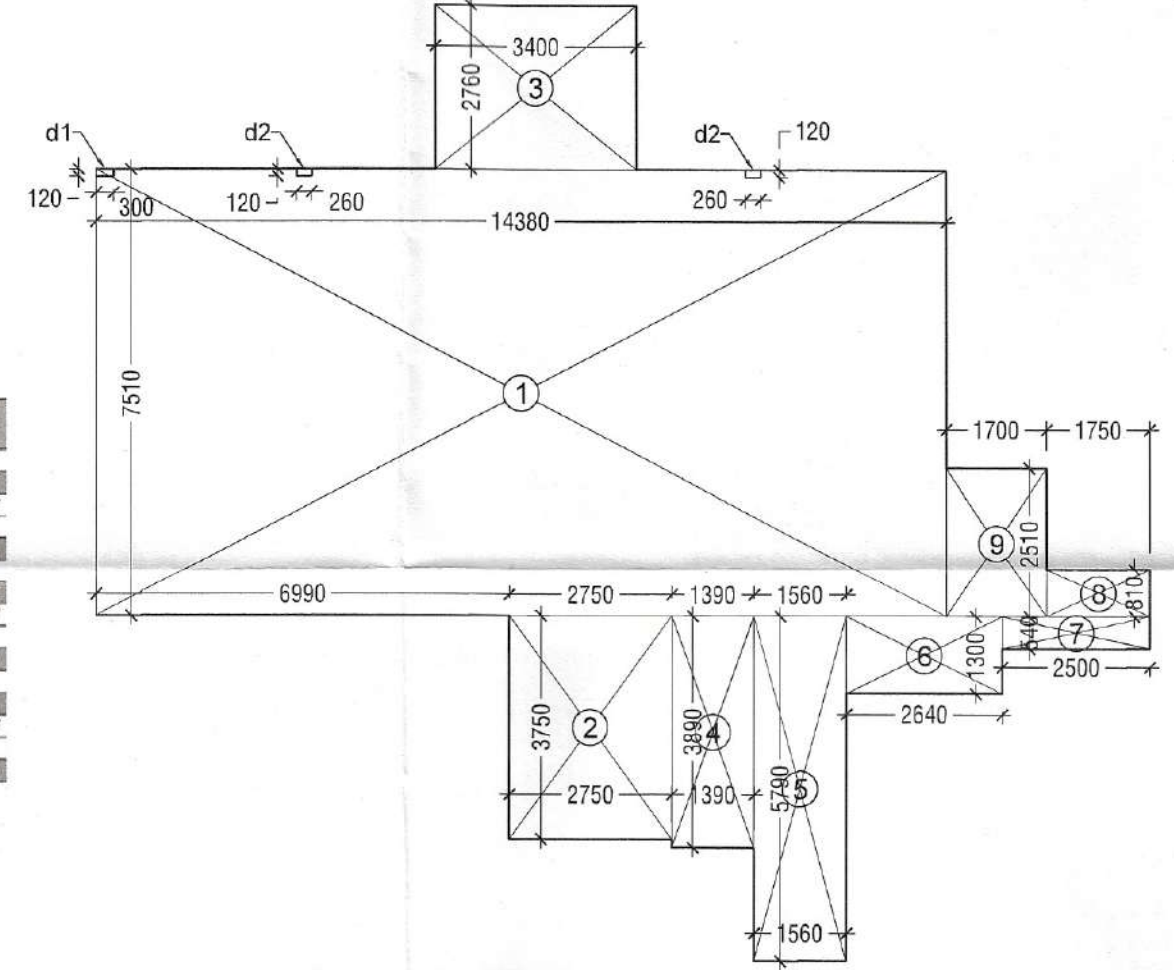
TYPICAL SECTION MECH. VENT DUCT

MECH. VENT DUCT CALCULATIONS

S. No.	COEFF.	WIDTH	LENGHT	NO.	AREA IN SQMT	
1	1	2.780	3.650	1	10.184	
2	1	2.780	3.650	1	10.184	
<b>TOTAL MECH. VENT DUCT AREA</b>						<b>20.368</b>

SCHEDULE OF OPENINGS

S. No.	TYPE	WIDTH	HEIGHT	NO.	REMARK
1	FD	1200	2400	00	12 HOUR FIRE RATED
2	FDI	1350	2400	00	12 HOUR FIRE RATED
3	D	1350	2400	00	12 HOUR FIRE RATED
4	D1	1000	2400	00	
5	D2	800	2400	00	
6	W	1825	1200	1200	
7	W1	900	1200	1200	
8	W2	800	1200	1200	
9	W3	1200	1200	1200	
10	W4	450	1200	1200	
11	S31	3000	2400	00	
12	S32	1300	2400	00	
13	DW	1150	2400	3000	



CARPET AREA DETAIL PLAN (REFUGE - 4BHK)

UNIT (REFUGE-4BHK) CARPET AREA CALCULATIONS

ADDITIONS				
S. No.	COEFF.	WIDTH	LENGHT	NO.   AREA IN SQMT
1	1	14.380	7.510	1   107.984
2	1	2.750	3.750	1   10.313
3	1	3.400	2.740	1   9.316
4	1	1.360	3.890	1   5.291
5	1	1.580	5.790	1   9.132
6	1	2.840	1.300	1   3.692
7	1	2.850	0.840	1   2.394
8	1	1.750	0.810	1   1.418
9	1	1.700	2.510	1   4.267
<b>TOTAL ADDITIONS</b>				<b>152.528</b>
<b>DEDUCTIONS</b>				
d1	1	0.300	0.120	1   0.036
d2	1	0.260	0.120	2   0.063
<b>TOTAL DEDUCTIONS (D)</b>				<b>0.099</b>
<b>NET AREA = (A1-D1)</b>				<b>152.429</b>

Handwritten signatures and names: H. S. R. (H), Member Secretary, B.P.A.C., DTP (HQ), J.D., R.A., A.T.P., S.T.R. (H), Member B.P.A.C., C.T.P. (H), Chairman, B.P.A.C., (Dinesh Kumar) PA(HQ).

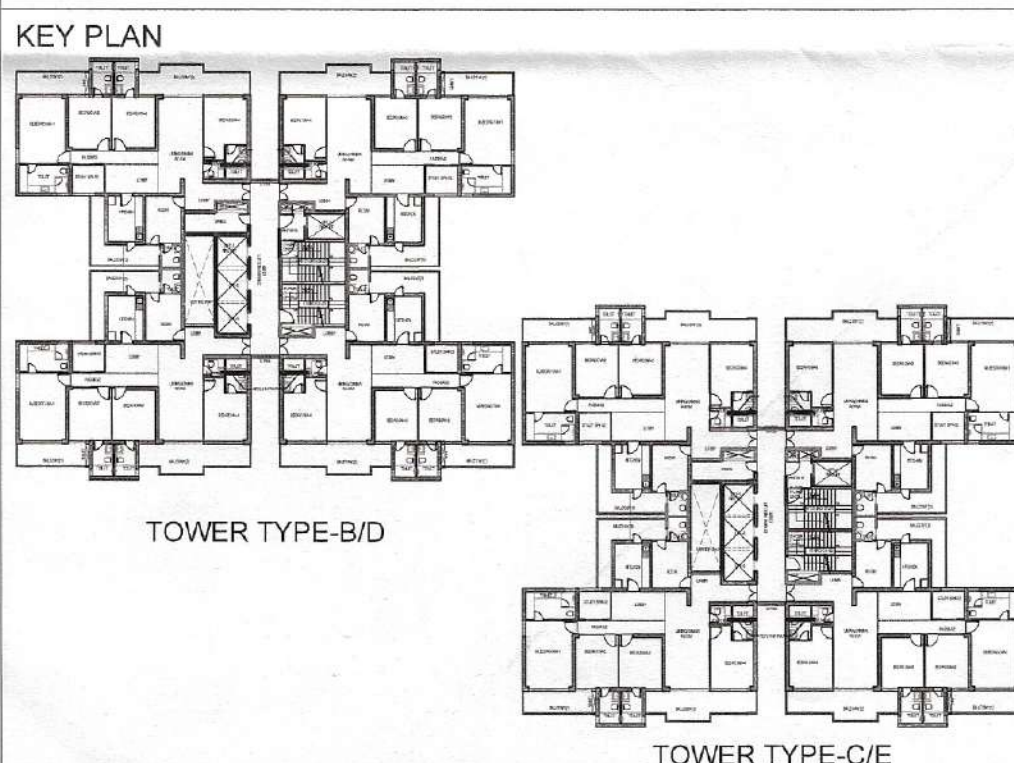
SANCTIONED TO BE READ WITH THIS OFFICE MEMO NO. DATE: DDT (T) MEMBER BPAC DRAWING NO.: S23  
TOWER - C / E REFUGE FLOOR PLANS & AREA DETAILS (33TH)

LEGEND -

DESCRIPTION	SYMBOL
1000 HPVC SOIL & VENT PIPE	1
1000 HPVC WASTE & VENT PIPE	2
1000 HPVC KITCHEN WASTE & VENT PIPE	2a
75 OD VENT PIPE (V.P)	3
1000 HPVC RAIN WATER PIPE	4
75 OD BALCONY DRAIN PIPE	4a
75 OD UTILITY BALCONY DRAIN PIPE	4b
1000 HPVC RAIN WATER PIPE FOR TERRACE	5
DOMESTIC WATER SUPPLY ON TAKE	6
FLUSHING WATER SUPPLY ON TAKE	6a
DOMESTIC WATER SUPPLY RISER	7
FLUSHING WATER SUPPLY RISER	8
DOMESTIC HYDRO-PNEUMATIC WATER SUPPLY PIPE DOWN TAKE UPPER 3 FLOORS	5a
FLUSHING WATER SUPPLY RISER	5b
FLUSHING WATER SUPPLY RISER	6b
PIPE DROP	9
FLOOR DRAIN (FD)	10
FLOOR TRAP (FT)	11
KURMA 10x25mm WITH SLOTTED GRATING	12
KURMA 10x25mm TERRACE	13
BALCONY DRAIN PIPE	14
DOMESTIC WATER SUPPLY (DWS)	15
HYDRO-PNEUMATIC DOMESTIC WATER (HYDRO)	16
FLUSHING WATER SUPPLY (FPS)	17
FLUSHING WATER SUPPLY RISER	18
DOMESTIC WATER SUPPLY RISER	19
75OD SOIL PIPE	20
75OD WASTE PIPE	21
75 OD VENT PIPE	22
RAIN WATER PIPE	23
HEATER FAUCET	H.F
ACCESS DOOR (AD)	AD
BALL VALVE / RETRIEVAL VALVE	B.V
NON RETURN VALVE	N.R.V

FIRE LEGEND -  
A. 1000 FIRE HYDRANT PIPE LOW ZONE  
A1. 1000 FIRE HYDRANT PIPE MID ZONE  
A2. 1000 FIRE HYDRANT PIPE HIGH ZONE  
B. 800 DRAIN PIPE  
C. 1000 FIRE SPRINKLER PIPE FOR LOW ZONE  
C1. 1000 FIRE SPRINKLER PIPE FOR MID ZONE  
C2. 1000 FIRE SPRINKLER PIPE FOR HIGH ZONE  
D. 1000 MAKE UP LINE  
E. 800 FIRE HYDRANT PIPE (BASEMENT FLOOR)  
FHC FIRE HOSE CABINET

GENERAL NOTES:  
1. DOWNING R.P. & T. SERIES REPRESENTS PLUMBING AND THE OTHER REPRESENTS ELECTRICAL WORK.  
2. IN CASE OF ANY DISCREPANCY BETWEEN THE PROJECT MANAGER / OWNER / ARCHITECT'S DRAWING AND THE CONTRACT DOCUMENTS, THE CONTRACT DOCUMENTS SHALL PREVAIL.  
3. ALL WORK SHALL BE DONE AS PER THE DRAWING AND THE CONTRACT DOCUMENTS.  
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KEY PLAN

PRINCIPAL ARCHITECT:

**ACPL** ISO 9001:2015  
Architecture Management Planning  
ACPL Design Ltd  
E-24 South Extension-1 New Delhi 110049 India T: +91 11 54523195 F: +91 11 24648750  
www.acpln.com E: contact@acpln.com

PROJECT:-  
PROPOSED RESIDENTIAL GROUP HOUSING COLONY UNDER TOD SCHEME AREA MEASURING 9.16875 ACRE LAND AT SECTOR 70, GURGAON (HARYANA) UNDER LICENCE NO. 21 OF 2024 DATED 07.02.2024 BEING DEVELOPED BY M/S TULIP INFRA TECH PVT. LTD.

For TULIP INFRA TECH PVT. LTD.  
Authorised Signatory  
OWNER'S AUTHORIZED SIGN. ARCHITECT'S SIGN.

DRAWING TITLE:  
TOWER - C / E REFUGE FLOOR PLANS & AREA DETAILS (33TH)  
DRAWING NO. S23 SCALE: 1:125