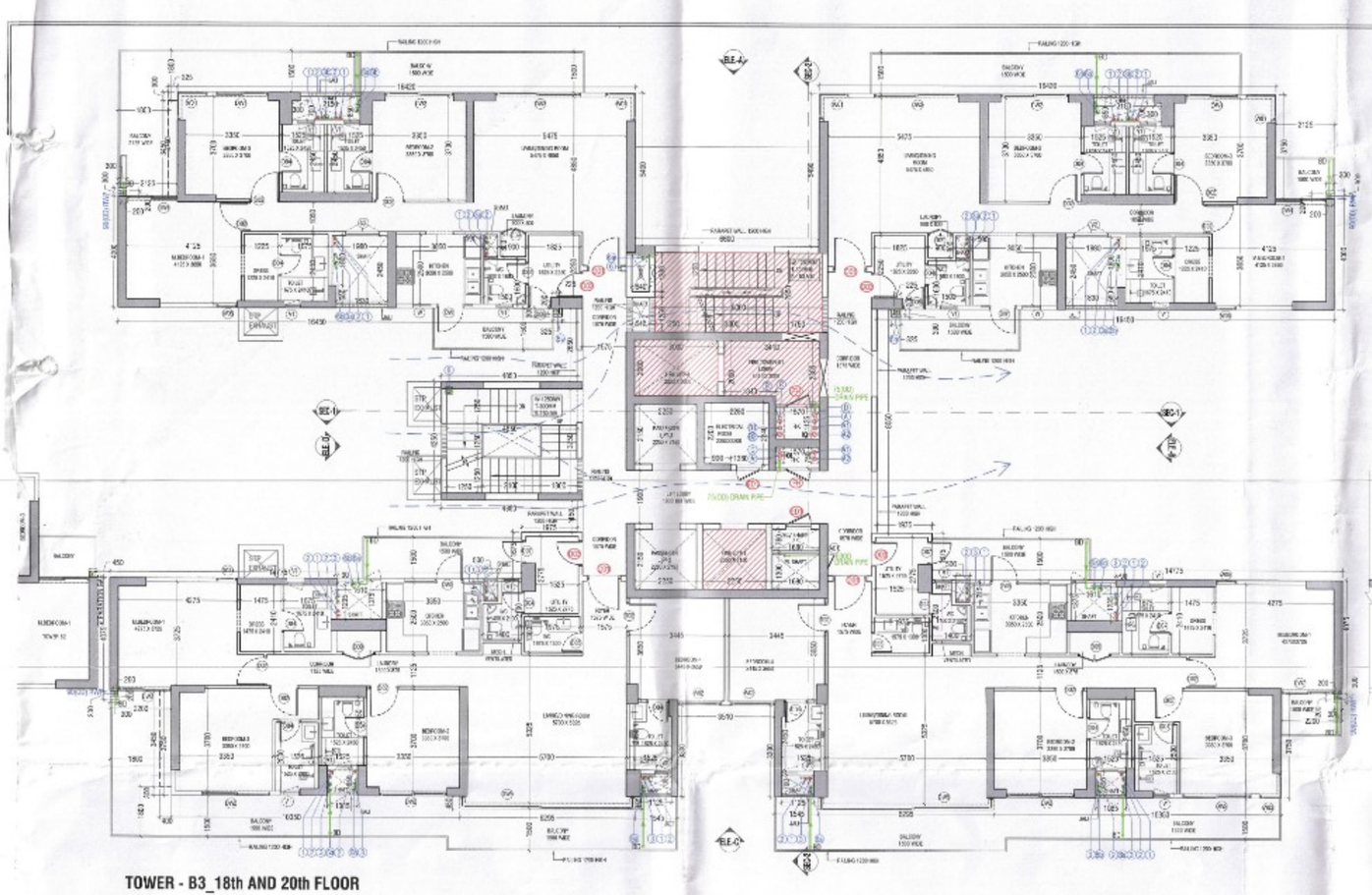
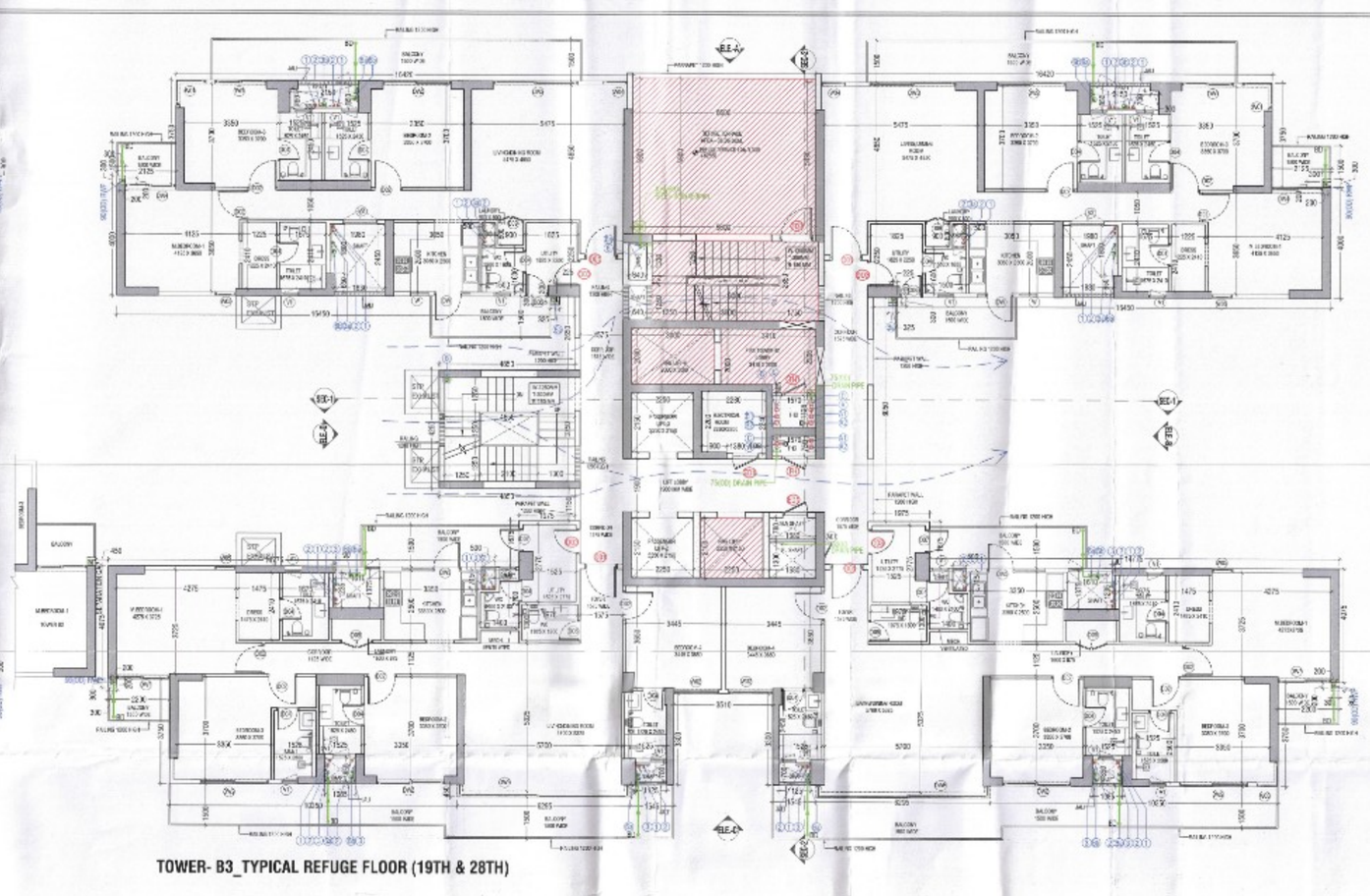


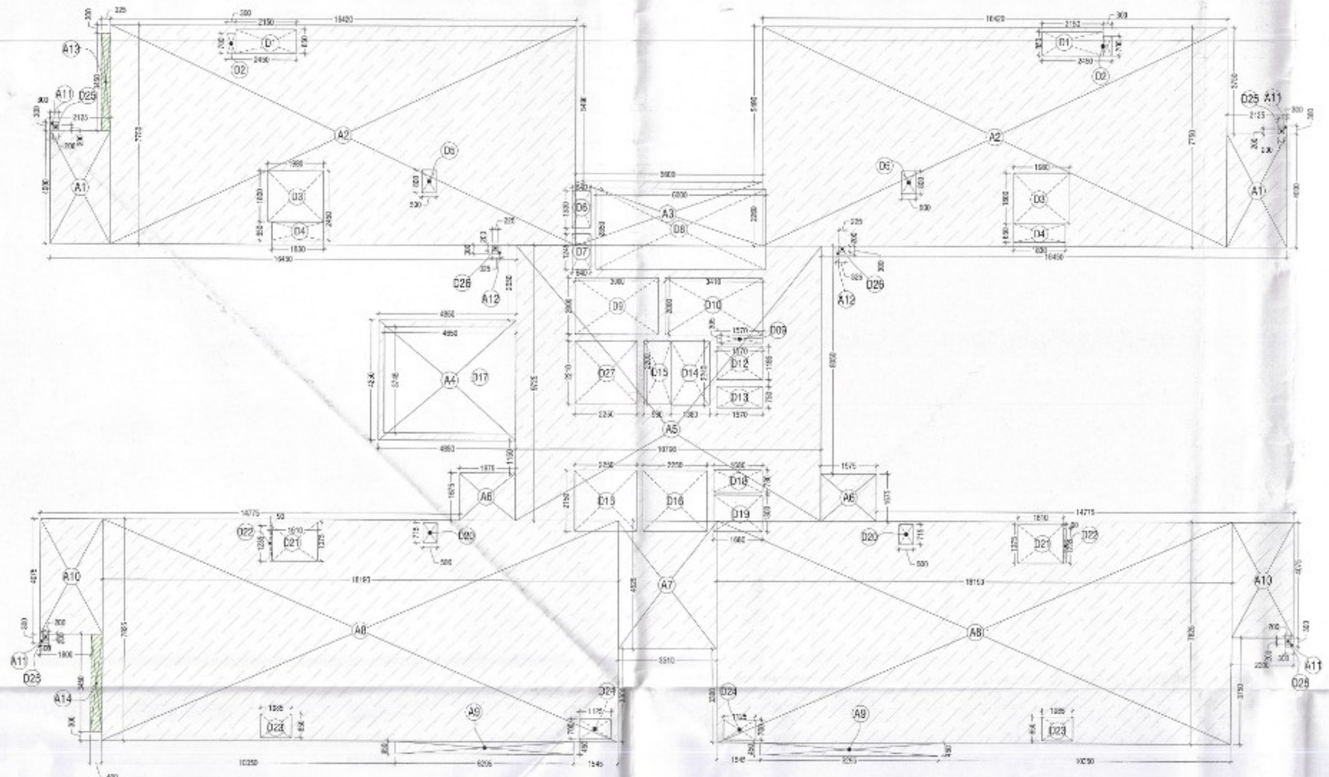
TOWER - B3_18th AND 20th FLOOR



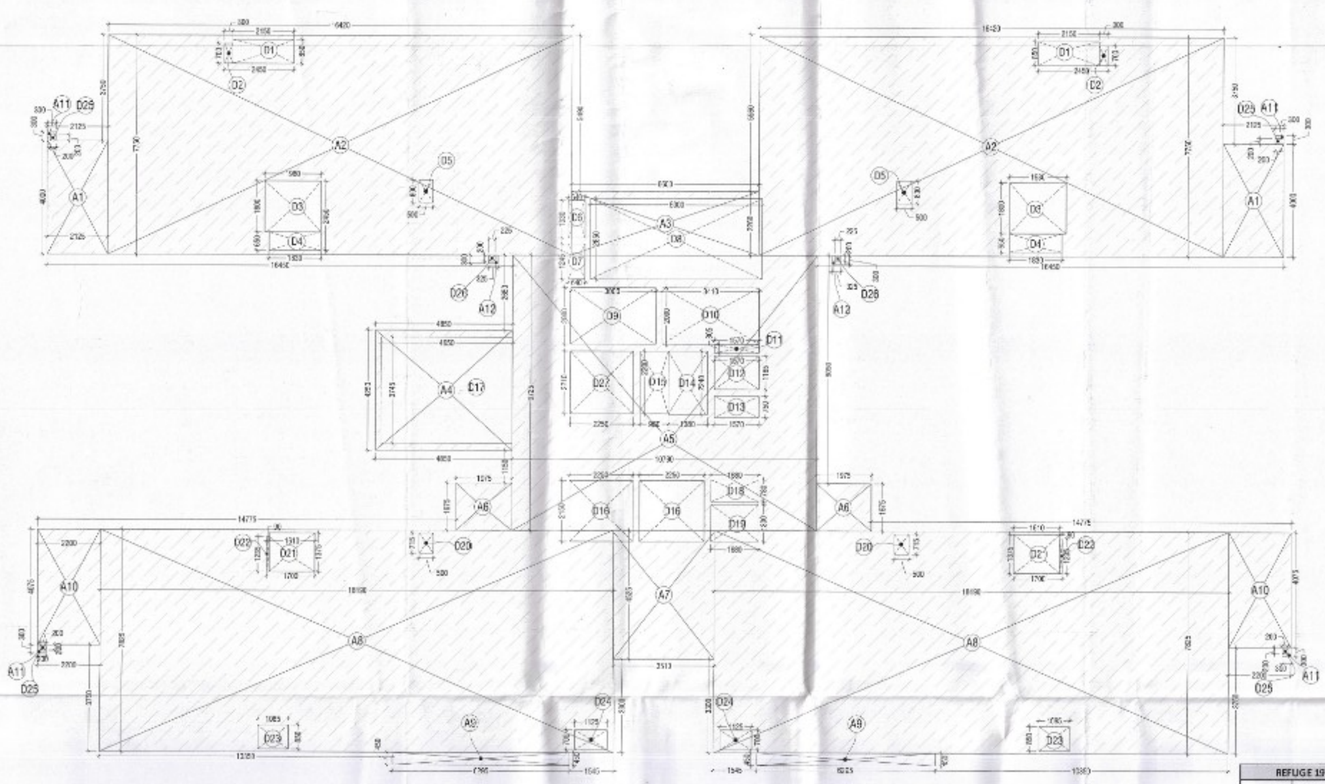
TOWER- B3_TYPICAL REFUGE FLOOR (19TH & 28TH)

18TH & 20TH FLOOR FAR AREA CALCULATIONS(T-B3)				
S. No.	WIDTH	LENGHT	NOS.	AREA IN SQMT
ADDITIONS (A)				
A1	2.125	4.000	2	17.000
A2	16.420	7.750	2	254.510
A3	6.600	2.260	1	14.916
A4	4.850	4.250	1	20.613
A5	10.790	9.725	1	104.933
A6	1.975	1.675	2	6.616
A7	3.510	4.525	1	15.883
A8	18.190	7.825	2	284.674
A9	6.295	0.450	2	5.666
A10	2.200	4.075	2	17.930
A11	0.300	0.300	4	0.360
A12	0.325	0.300	2	0.195
A-14	0.400	3.450	1	1.380
TOTAL ADDITION (A)			=	745.796
DEDUCTIONS (D)				
D1	2.150	0.850	2	3.655
D2	0.300	0.700	2	0.420
D3	1.980	1.800	2	7.128
D4	1.830	0.650	2	2.379
D5	0.500	0.800	2	0.800
D6	0.640	1.330	1	0.851
D7	0.640	1.245	1	0.797
D8	6.000	2.850	1	17.100
D9	3.000	2.000	1	6.000
D10	3.410	2.000	1	6.820
D11	1.570	0.305	1	0.479
D12	1.570	1.125	1	1.766
D13	1.570	0.750	1	1.178
D14	1.380	2.240	1	3.091
D15	0.900	2.200	1	1.980
D16	2.250	2.150	3	14.513
D17	4.650	3.745	1	17.414
D18	1.680	0.780	1	1.310
D19	1.680	1.300	1	2.184
D20	0.500	0.715	2	0.715
D21	1.610	1.375	2	4.428
D22	0.090	1.235	2	0.222
D23	1.085	0.850	2	1.845
D24	1.125	0.700	2	1.575
D25	0.200	0.200	4	0.160
D26	0.225	0.200	2	0.090
TOTAL DEDUCTIONS (D)				98.899
TOTAL 18TH & 20THL FLOOR FAR AREA (A-D)			=	646.896

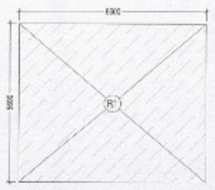
TOWER B DOOR WINDOW SCHEDULE					
NAME	WIDTH	HEIGHT	CILL	LINTEL	LOCATION
ED1	900	2250	150	2400	ELE. ROOM / ELV. SHAFT 2 HR FIRE RATING
FH	900	2250	150	2400	FHC
FD1	1200	2400	0	2400	STAIRCASE 2 HR FIRE RATING
FD2	1000	2400	0	2400	FIRE CONTROL ROOM STILT
FD3	1200	2400	0	2400	ELECTRICAL METER ROOM-STILT
AD1	600	2250	150	2400	PL. SHAFT
D01	1200	2400	0	2400	UNIT ENTRY / TERRACE 1 HR FIRE RATING
D01A	1200	2100	0	2100	TERRACE
D02	1050	2400	0	2400	ROOM
D03	900	2400	0	2400	UTILITY ROOM ENTRY 1 HR. FIRE RATING
D04	800	2400	0	2400	TOILET
D05	750	2400	0	2400	TOILET
D06	800	2400	0	2400	UTILITY BALCONY
D07	825	2600	0	2400	UTILITY BALCONY
D08	1200	2400	0	2400	HANDICAPPED TOILET
D09	900/1150	2400	0	2400	LAUNDRY
D10	1575	2400	0	2400	STILT CORRIDOR
DW	1000/900	2400/1350	0/1050	2400	KITCHEN TO BALCONY
DW1	1850	2400	0	2400	BEDROOM TO BALCONY
DW2	2450	2400	0	2400	BEDROOM TO BALCONY
DW3	3050	2400	0	2400	LIVING ROOM TO BALCONY
DW4	1825	2400	0	2400	BEDROOM TO BALCONY
DW5	1000/1100	2400/1350	0/1050	2400	KITCHEN TO BALCONY
DW6	900/6296	2400	0/1050	2400	LIVING ROOM TO BALCONY
DW7	1900	2400	0	2400	BEDROOM TO BALCONY
W	650	1350	1050	2400	KITCHEN TO BALCONY
W01	900/1075	2400	0	2400	LIVING ROOM TO BALCONY
W02	1585	2400	0	2400	BEDROOM
W03	900/775	2400	0	2400	BEDROOM
W04	870	2400	0	2400	LIVING ROOM
W05	750	2400	0	2400	BEDROOM
V1	600	1200	1200	2400	TOILET
V2	1200	1200	1200	2400	TOILET
GL1	1800/14840	3000/4900	0	3000/4900	ENTRANCE LOBBY STILT
GL2	3800/3060	4900	0	4900	WAITING LOUNGE STILT
GL3	1150	3700	1200	4900	WAITING LOUNGE STILT
GL4	1640	3700	1200	4900	CORRIDOR STILT
GL5	2230	3700	1200	4900	CORRIDOR STILT



TOWER - B3_18th AND 20th FLOOR
AREA DIAGRAM



TOWER-B2_TYPICAL REFUGE FLOOR (19TH & 28TH)
AREA DIAGRAM



REFUGE_19TH & 28TH AREA
DIAGRAM

REFUGE AREA CALCULATION
GROSS AREA OF TWO CONSECUTIVE FLOORS = 743.294 + 745.796 = 1489.09 SQM
NO OF OCCUPANTS ON two FLOOR = 1489.09 /12.5 = 119.127 SAY 120 PERSONS
REFUGE AREA REQUIRED = 120 X 0.3 = 36 SQM
ADDITIONALLY FOR WHEELCHAIR SPACE = 0.9 SQM
TOTAL REFUGE AREA REQUIRED = 36 + 0.9 = 36.90 SQM
REFUGE AREA PROVIDED = 36.96 SQM

19TH &28TH LEVEL REFUGE AREA CALCULATIONS(T-B3)				
S. No.	WIDTH	LENGHT	NOS.	AREA IN SQMT
ADDITIONS (A)				
R1	6.600	5.600	1	36.960
TOTAL ADDITION (A)			=	36.960

LEGEND FOR PLUMBING:
1	1500 SOIL & VENT PIPE
1a	1500 SOIL & VENT PIPE
1b	2000 SOIL & VENT PIPE
2	1500 WASTE & VENT PIPE
2a	1500 WASTE & VENT PIPE
2b	2000 WASTE & VENT PIPE
3	750 ANTI-SYPHONAGE PIPE
3a	1000 ANTI-SYPHONAGE PIPE
3b	1500 ANTI-SYPHONAGE PIPE
4	DOMESTIC WATER SUPPLY MAIN PIPE
4a	DOMESTIC WATER SUPPLY BRANCH PIPE
5	FLUSHING WATER SUPPLY MAIN PIPE
5a	FLUSHING WATER SUPPLY BRANCH PIPE
6	750 RAIN WATER PIPE
6a	1000 RAIN WATER PIPE
6b	1500 RAIN WATER PIPE
6c	2000 RAIN WATER PIPE
7	DOMESTIC WATER TANK FILLING PIPE
8	FLUSHING WATER TANK FILLING PIPE

FIRE FIGHTING LEGEND:-
A	1500 FIRE PIPE FOR LOW RISE
A1	1500 FIRE PIPE FOR MID RISE
A2	1500 FIRE PIPE FOR HIGH RISE
B	1500 SPRINKLER PIPE FOR LOW RISE
B1	1500 SPRINKLER PIPE FOR MID RISE
B2	1500 SPRINKLER PIPE FOR HIGH RISE
C	800 SPRINKLER DRAIN PIPE
D	1500 FIRE PIPE FROM FIRE OHT TO BASEMENT
	FIRE HOSE CABINET

NOTE
EACH FIRE HOSE CABINET SHALL CONSIST OF
1 NO.- 63 SINGLE HEADED HYDRANT VALVE (63mm).
2 Nos.- FIRE HOSES 63mm 15M LONG WITH ACCESSORIES.
1 No.- SHORT BRANCH PIPE
1 No.- FIRST AID HOSE REEL DRUM
1 No.- ABC TYPE FIRE EXT. (6.0KG)
1 No.- CO2 TYPE FIRE EXT. (4.5KG)

S.T.P.(HO) Member Secretary B.P.A.C. — S.T.P.(O) Member B.P.A.C. — CE.R.(HQ) Chairman B.P.A.C.
DTP(HO) — ATP(HO) — AD — PA — AVP

SANCTIONED
TO BE READ WITH THIS OFFICE MEMO NO.: 37419
DATED : 25/09/2025

JD (HQ) Member BPAC

Checked and found ok for Public Health (Internal) Service only subject to comments in forwarding letter No. 389155 DV. 29/8/25

DINESH KUMAR PA(HQ)

Superintending Engineer (HQ) for Chief Engineer-I HSVP, Panchkula

REFUGE 19TH & 28TH FLOOR FAR AREA CALCULATIONS(T-B3)				
S. No.	WIDTH	LENGHT	NOS.	AREA IN SQMT
ADDITIONS (A)				
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A2	16.420	7.750	2	254.510
A3	6.600	2.260	1	14.916
A4	4.850	4.250	1	20.613
A5	10.790	9.725	1	104.933
A6	1.975	1.675	2	6.616
A7	3.510	4.525	1	15.883
A8	18.190	7.825	2	284.674
A9	6.295	0.450	2	5.666
A10	2.200	4.075	2	17.930
A11	0.300	0.300	4	0.360
A12	0.325	0.300	2	0.195
TOTAL ADDITION (A)			=	743.294
DEDUCTIONS (D)				
D1	2.150	0.850	2	3.655
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D3	1.980	1.800	2	7.128
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D5	0.500	0.800	2	0.800
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D7	0.640	1.245	1	0.797
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D9	3.000	2.000	1	6.000
D10	3.410	2.000	1	6.820
D11	1.570	0.305	1	0.479
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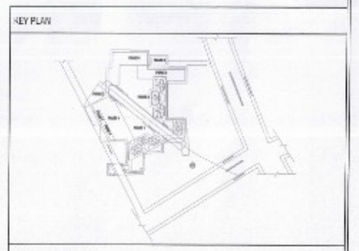
D14	1.380	2.240	1	3.091
D15	0.900	2.200	1	1.980
D16	2.250	2.150	3	14.513
D17	4.650	3.745	1	17.414
D18	1.680	0.780	1	1.310
D19	1.680	1.300	1	2.184
D20	0.500	0.715	2	0.715
D21	1.610	1.375	2	4.428
D22	0.090	1.235	2	0.222
D23	1.085	0.850	2	1.845
D24	1.125	0.700	2	1.575
D25	0.200	0.200	4	0.160
D26	0.225	0.200	2	0.090
TOTAL DEDUCTIONS (D)				98.899
TOTAL REFUGE 19TH & 28TH FLOOR FAR AREA (A-D) =			=	644.395

KEY PLAN



PRINCIPAL ARCHITECT

ACPL
ISO 9001:2015
Architecture Engineering Planning
ACPL Design Ltd
Unit 1410 Elevate, Sector 43, Gurugram-122002 (Haryana) India
www.acpldesignltd.com
CIN-U74140HR2006PLC036860

N

CLIENT
EMAAR INDIA LTD.

PROJECT
PROPOSED RESIDENTIAL COLONY (UNDER NILP POLICY DATED 11.05.2022)ON THE ADDITIONAL AREA MEASURING 1.4625 ACRES (LICENCE NO. 75 OF 2025 DATED 22.08.2025) ADJOINING TO ALREADY LICENSE GRANTED AREA MEASURING 24.4375 ACRES (LICENCE NO. 10 OF 2025 DATED 16.01.2025)THERBY MAKING TOTAL AREA MEASURING 25.90 ACRES, SECTOR-65, GURUGRAM BEING DEVELOPED BY EMAAR INDIA LTD.

EMAAR INDIA LIMITED
OWNER-AUTH. SIGNATURE

SHANGARI ARCHITECT CA/97/21741
ARCHITECT'S SIGNATURE

DRAWING TITLE: TOWER B1, 18TH & 20TH, 19TH & 28TH REFUGE FLOOR PLAN & AREA DIAGRAM

DRAWING NO. A-05 — SCALE : 1:100