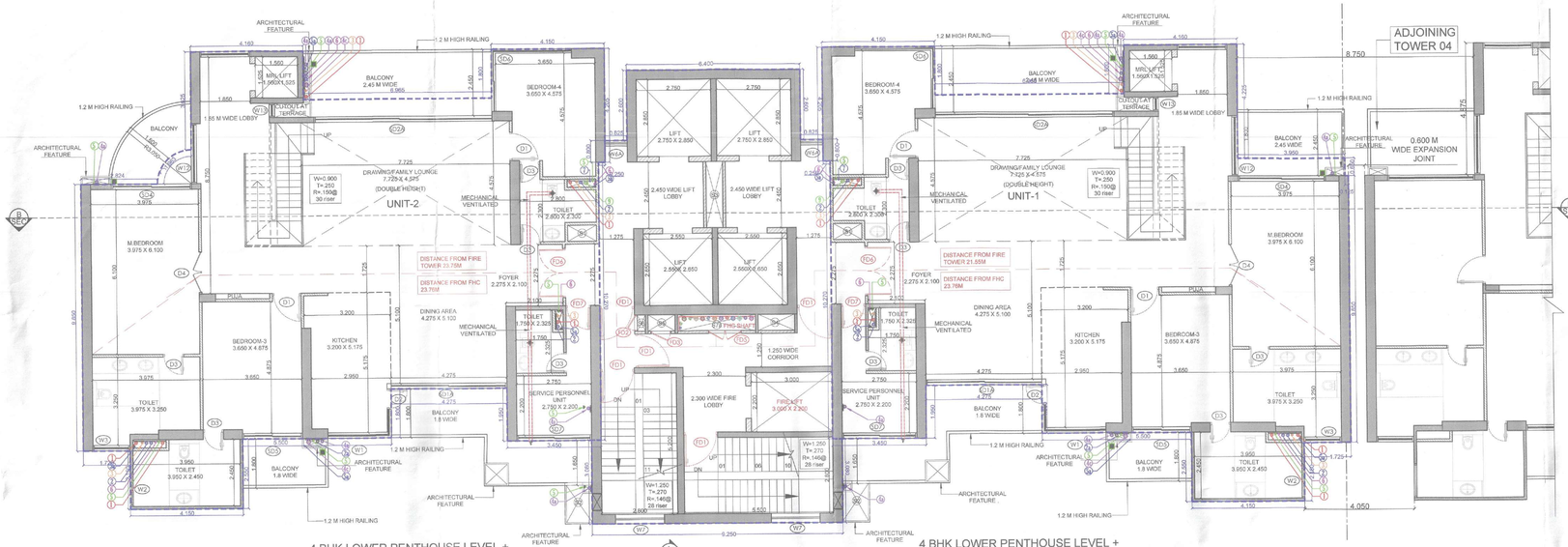
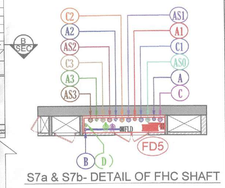


TOWER - 5
LOWER PENTHOUSE LEVEL
(LEVEL -38TH FLOOR (lvl +137.325M)



S7a & S7b- DETAIL OF FHC SHAFT

LEGEND:-

100 MM INTERNAL WALL

LEGEND PLUMBING PIPE :-	
S.No.	DESCRIPTION
1.	110 OD SOIL PIPE
2.	110 OD WASTE PIPE
2a.	110 OD KITCHEN WASTE PIPE
2b.	110 OD WASHING MACHINE WASTE PIPE
2c.	75 OD GARBAGE BOOM WASTE PIPE
3.	75 OD uPVC VENT PIPE
4.	110 OD uPVC RAIN WATER PIPE
4a.	110 OD uPVC BALCONY DRAIN PIPE
4b.	110 OD uPVC UTILITY BALCONY DRAIN PIPE
4c.	160 OD uPVC RAIN WATER PIPE
4d.	75 OD uPVC BUTLER BALCONY DRAIN PIPE
5.	DOMESTIC WATER SUPPLY BN. TAKE (DWS) *
5a.	DOMESTIC BOOSTER PUMP WATER SUPPLY (UPPER 4 FLOOR) *
6.	FLESHING WATER SUPPLY BN. TAKE (FWS) *
7.	600 DOMESTIC WATER SUPPLY RISER TO TERRACE OHT
8.	500 FLESHING WATER SUPPLY RISER TO TERRACE OHT
9.	160 OD DOMESTIC WATER SUPPLY ON. TAKE FOR UPPER FLOOR (DWS)
10.	110 OD FLESHING WATER SUPPLY ON. TAKE FOR UPPER FLOOR (FWS)
*	AS PER WATER SUPPLY DISTRIBUTION DIAGRAM

LEGEND FIRE FIGHTING PIPE:-	
S.No.	DESCRIPTION
A	100Ø HYDRANT PIPE FOR ZONE-1
A1	100Ø HYDRANT PIPE FOR ZONE-2
A2	100Ø HYDRANT PIPE FOR ZONE-3
A3	100Ø HYDRANT PIPE FOR ZONE-4
B	50Ø FIRE DRAIN PIPE
C	100Ø SPRINKLER PIPE FOR ZONE-1
C1	100Ø SPRINKLER PIPE FOR ZONE-2
C2	100Ø SPRINKLER PIPE FOR ZONE-3
C3	100Ø SPRINKLER PIPE FOR ZONE-4
D	100Ø FIRE MAKEUP LINE
AS0	100Ø ALTERNATE SPRINKLER PIPE FOR ZONE-1
AS1	100Ø ALTERNATE SPRINKLER PIPE FOR ZONE-2
AS2	100Ø ALTERNATE SPRINKLER PIPE FOR ZONE-3
AS3	100Ø ALTERNATE SPRINKLER PIPE FOR ZONE-4

DOOR WINDOW SCHEDULE

TYPE	WIDTH	HEIGHT	SILL LVL	LINTEL LVL	REMARKS
D1	1100	2400	± 00	2400	BEDROOM
D2	750	2700	± 00	2700	KITCHEN
D3	750	2400	± 00	2400	TOILETS
D4	1500	2400	± 00	2400	M. BEDROOM
D5	1250	2400	± 00	2400	MUMTY,MACHINE ROOM
SD1	3975	2700	± 00	2700	LIVING/DINING
SD1A	4275	2700	± 00	2700	LIVING/DINING
SD1B	7225	2700	± 00	2700	M BEDROOM
SD1C	6825	2700	± 00	2700	M BEDROOM
SD2	3675	2700	± 00	2700	LIVING/DINING
SD2A	6575	7150	± 00	7150	LIVING/DINING
SD3	3600	2700	± 00	2700	BEDROOM
SD4	3225	2700	± 00	2700	M BED ROOM
SD5	2200	2700	± 00	2700	BEDROOM
SD6	2550+ 2300	2700	± 00	2700	BEDROOM
SD7	2750	2700	± 00	2700	SPU
SD8	6550	2600	+100	2700	LOUNGE
W1	2250+ 1250	2600	+100	2700	BEDROOM CORNER WINDOW
W2	1250	2600	+100	2700	TOILET
W3	1375	2600	+100	2700	TOILET
W4	1800	2600	+100	2700	TOILET
W5	600	2600	+100	2700	LOUNGE
W6	1025	2600	+100	2700	LIFT LOBBY
W6A	825	2600	+100	2700	LIFT LOBBY
W7	1800	2600	+100	2700	LIFT LOBBY
W8	2550+ 2300	2600	+100	2700	LOUNGE
W11	1650	2600	+100	2700	LIFT LOBBY
W12	2225	2600	+100	2700	LIFT LOBBY
W13	825	2600	+100	2700	LIFT LOBBY
W14	6275	2600	+100	2700	FAMILY LOUNGE
FD1	1250	2400	± 00	2400	(TWO HOUR FIRE RATED DOOR)
FD2	600	2300	+100	2400	(TWO HOUR FIRE RATED DOOR)
FD3	750	2300	+100	2400	(TWO HOUR FIRE RATED DOOR)
FD5	1200	2300	+100	2400	(FHC DOOR)
FD6	900	2400	± 00	2400	ENTRANCE (ONE HOUR FIRE RATED DOOR)
FD7	900	2400	± 00	2400	SERVICE PERSONNEL UNIT (ONE HOUR FIRE RATED DOOR)

NOTE: ON REFUGE FLOOR W7,FD6 & FD7 SHALL BE TWO HOUR FIRE RATED WINDOW & DOOR.

S.T.P.(HQ) Member Secretary B.P.A.C. — S.T.P.(G) Member B.P.A.C. — C.E.P.(HR) Chairman B.P.A.C.

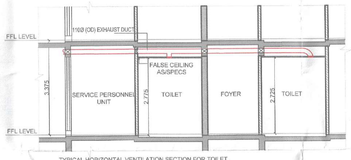
DTP(HQ) — ATP(HQ)

JD. — P.A. — A.T.P

BANCHONED
TO BE READ WITH THIS OFFICE MEMO NO.:
Dt.:-

JD(HQ)

JDT (HQ) Member BPAC

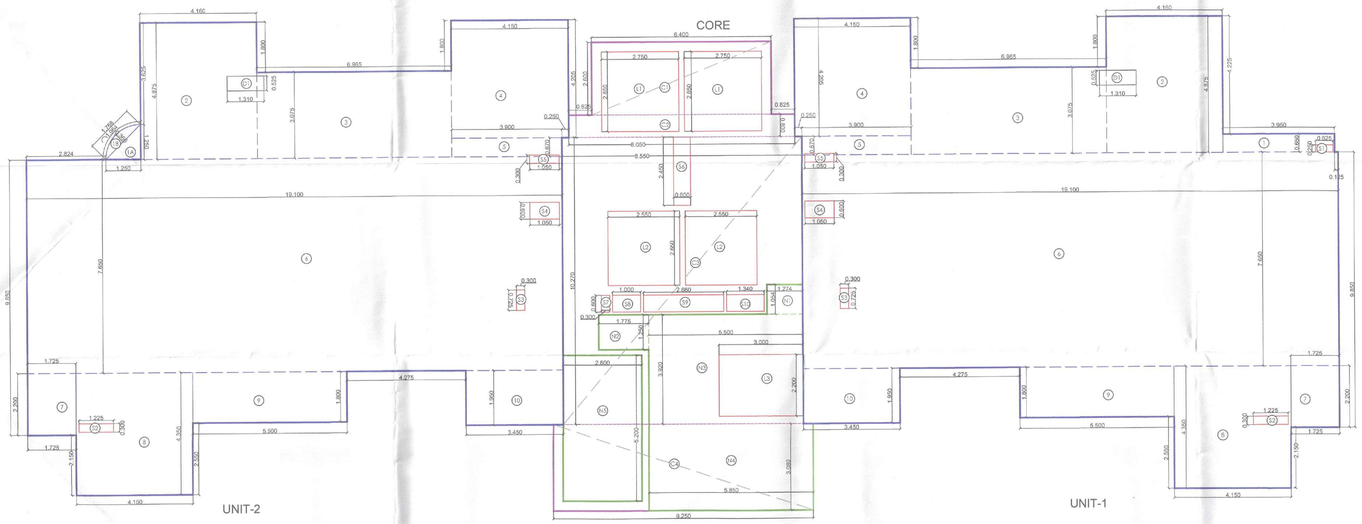


TYPICAL HORIZONTAL VENTILATION SECTION FOR TOILET.

LEGEND SHAFT:-		
S.No.	DESCRIPTION	SIZE
S1	ELEC. SHAFT	1.05 X 0.60
S2	ST. PRESS SHAFT	0.95 X 1.35
S3	LOBBY PRESS. SHAFT	0.60 X 2.450
S3a	LOBBY PRESS. SHAFT	0.60 X 1.050
S4	FIRE LOBBY PRESS. SHAFT	1.34 X 0.60
S5	LV SHAFT	1 X 0.60
S6	PL. SHAFT	0.30 X 0.60
S7a	FHC SHAFT	2.850 X 0.60
S7b	FHC SHAFT	3.250 X 0.60
S8a	ELEC. SHAFT	0.60 X 1.20
S9a	PL. SHAFT	0.575 X 1.20
S8b	ELEC. SHAFT	0.575 X 1.095
S9b	PL. SHAFT	0.575 X 1.07

TYPICAL HORIZONTAL VENTILATION CALCULATION FOR W.C.

S.NO	LOCATION	AREA (Sq.ft.)	HEIGHT (Ft.)	VOLUME (Cu.ft.)	ACPH	DESIGN CFM	SELECTED CFM	SELECTED EXHAUST FAN
1	TYPICAL MECHANICAL VENTILATION FOR WC & TOILET							
1.1	Bedroom 4 toilet	60.06	8.94	537	12	107.39	100	1 # 100 CFM INLINE FAN
1.2	SPU Toilet	40.26	8.94	360	12	71.98	100	1 # 100 CFM INLINE FAN



TOWER - 5 LOWER PENTHOUSE AREA DIAGRAM (LEVEL -38TH FLOOR)

TOWER-5

FAR AREA AT LOWER PENT HOUSE UNIT 1 PER FLOOR
(All Distances are in Meter & Areas in Sqm)

ADDITIONS (A)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.M T.) = NO.X LENGTH X WIDTH
1	1	3.950	0.650	2.568
2	1	4.160	4.875	20.280
3	1	6.965	3.075	21.417
4	1	4.150	4.205	17.451
5	1	3.900	0.670	2.613
6	1	19.100	7.650	146.115
7	1	1.725	2.200	3.795
8	1	4.150	4.350	18.053
9	1	5.500	1.800	9.900
10	1	3.450	1.950	6.728
TOTAL(A) =				248.919

DEDUCTION (B)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.M T.) = NO.X LENGTH X WIDTH
S1	1	0.625	0.250	0.156
S2	1	1.225	0.300	0.368
S3	1	0.300	0.725	0.218
S4	1	1.050	0.600	0.630
S5	1	1.050	0.300	0.315
D1	1	1.310	0.525	0.688
TOTAL				2.374

UNIT1-FAR AREA CALCULATION = ADDITION(A) - (DEDUCTION (B)

=	248.919	-	2.374	
		=	246.545	SQMT

FAR AREA AT LOWER PENT HOUSE UNIT 2 PER FLOOR
(All Distances are in Meter & Areas in Sqm)

ADDITIONS (A)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.M T.) = NO.X LENGTH X WIDTH
1A	0.5	1.250	1.250	0.781
1B	0.667	0.366	1.768	0.432
2	1	4.160	4.875	20.280
3	1	6.965	3.075	21.417
4	1	4.150	4.205	17.451
5	1	3.900	0.670	2.613
6	1	19.100	7.650	146.115
7	1	1.725	2.200	3.795
8	1	4.150	4.350	18.053
9	1	5.500	1.800	9.900
10	1	3.450	1.950	6.728
TOTAL(A) =				247.564

DEDUCTION (B)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.M T.) = NO.X LENGTH X WIDTH
D1	1	1.310	0.525	0.688
S2	1	1.225	0.300	0.368
S3	1	0.300	0.725	0.218
S4	1	1.050	0.600	0.630
S5	1	1.050	0.300	0.315
TOTAL				2.218

UNIT -2-FAR AREA CALCULATION = ADDITION(A) - (DEDUCTION (B)

=	247.564	-	2.218	
		=	245.346	SQMT

CORE FAR AREA AT LOWER PENT HOUSE
(All Distances are in Meter & Areas in Sqm)

ADDITIONS (A)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.M T.) = NO.X LENGTH
C1	1	6.400	2.600	16.640
C2	1	8.050	0.800	6.440
C3	1	8.550	10.270	87.809
C4	1	9.250	3.080	28.490
TOTAL(A) =				139.379

SERVICE SHAFT (C)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.M T.) = NO.X LENGTH
L1	2	2.750	2.850	15.675
L2	2	2.550	2.650	13.515
S6	1	0.600	2.450	1.470
S7	1	0.300	0.600	0.180
S8	1	1.000	0.600	0.600
S9	1	2.860	0.600	1.716
S10	1	1.340	0.600	0.804
TOTAL				33.960

NON FAR AREA (STAIRCASE) (D)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.M T.) = NO.X LENGTH
N1	1	1.274	1.054	1.343
N2	1	1.775	1.250	2.219
N3	1	5.500	3.920	21.560
N4	1	5.850	3.080	18.018
N5	1	2.800	5.200	14.560
TOTAL NON FAR AREA (D)				57.700

NON FAR AREA (DUCTION) (E)

ITEM	NO.S	WIDTH (MTR.)	LENGTH (MTR.)	AREA(SQ.M T.) = NO.X LENGTH
L3	1	3.000	2.200	6.600
NON FAR AREA (E)				6.600

TOTAL NON FAR AREA CALCULATION (D-E) =	51.100

TOTAL CORE FAR AREA CALCULATION = ADDITION(A) - (SERVICE SHAFT (C)-NONFAREA AREA (D)

=	139.379	-	91.660	
		=	47.719	SQMT

TOTAL LOWERPENT HOUSE FLOOR FAR AREA CALCULATION = (TOTAL LOWER PENT HOUSE FLOOR UNIT 1 FAR AREA) +(TOTAL LOWER PENT HOUSE FLOOR UNIT 2 FAR AREA)+(TOTAL LOWER PENT HOUSE FLOOR CORE FAR AREA)

=	246.545	+	245.346	
+	47.719	=	539.610	SQMT

Note:-

1. BUILDING HAS AUTOMATIC SPRINKLER SYSTEM WHEREVER REQUIRED BY NBC.
2. BUILDING WILL BE DESIGNED (STRUCTURES) AS PER RELEVENT IS CODES FOR EARTH QUAKE RESISTANCE.
3. MECHANICAL VENTILATION WITH 100% POWER BACK-UP FOR SERVICE AREAS.

PROJECT:

PROPOSED GROUP HOUSING COLONY MEASURING 5.875 ACRES UNDER TOD POLICY DATED 09.02.2016(LICENSE NO. 50 OF 2019 DATED 07.03.2019) IN SECTOR -49, GURUGRAM BEING DEVELOPED BY ELAN ENCLAVE PRIVATE LIMITED UNDER COLLABORATION WITH V.A. AGRICULTURE PVT LTD

ARCHITECT'S SEAL & SIGNATURE	OWNER'S SEAL & SIGNATURE
GIAN P. MATHUR ARCHITECT B. Arch., M.C.A., I.I.A CA No. 80/3769	For ELAN ENCLAVE PRIVATE LIMITED Authorised Signatory

Checked and found ok for Public Health (Internal) Service only subject to comments in forwarding letter No. 251424 dt. 04/08/2025

Executing Engineer (PH) Engineering Department

JULY-2025.	Scale	1:75	
Drawing Title:- TOWER - 5 PENTHOUSE LVL-1 LAYOUT (LEVEL -38TH FLOOR)&AREA DETAIL			Drawing No:- A-T5-06