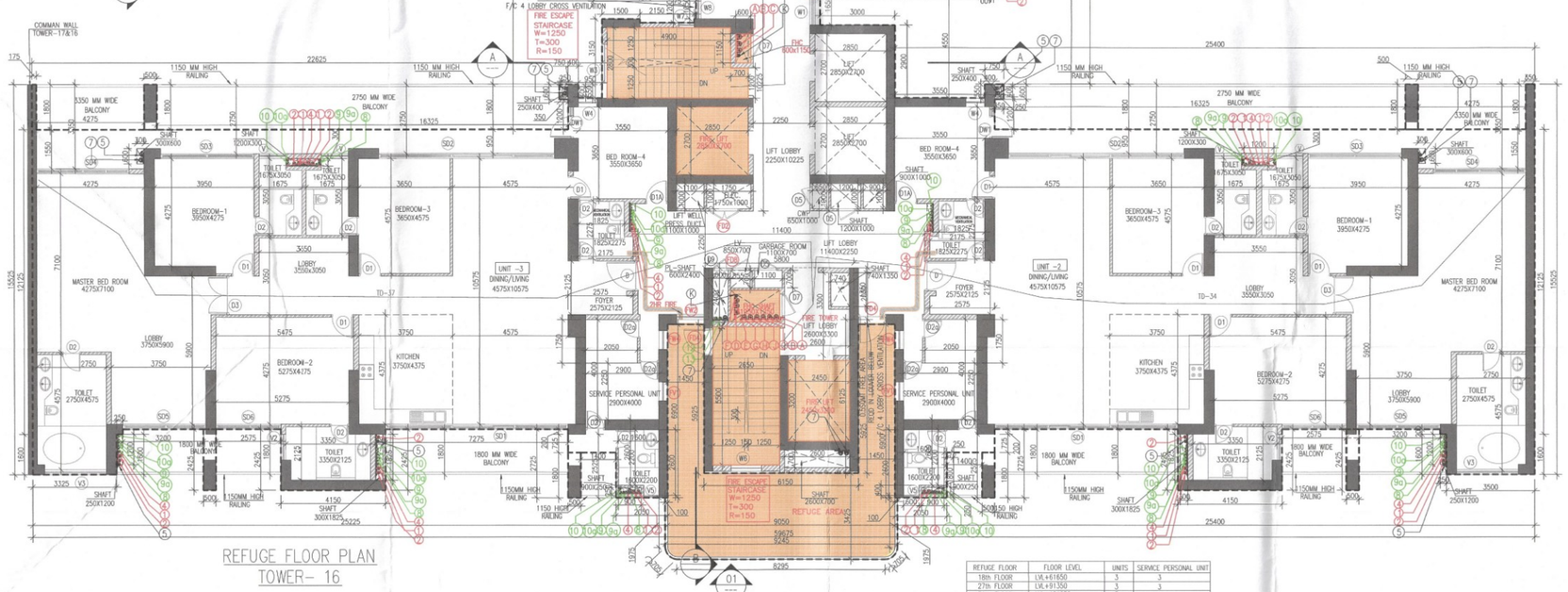
PLUMBING LEGEND:–	
1	100ø/110ø SOIL PIPE
2	100ø/110ø WASTE PIPE
2A	100ø/110ø WASTE PIPE FOR UTILITY BALCONY
3	100ø/110ø KITCHEN WASTE PIPE
4	75ø VENT PIPE
5	100ø/110ø RAIN WATER PIPE FOR BALCONY
6	100ø/110ø RAIN WATER PIPE FOR TERRACE
7	150ø/160ø RAIN WATER PIPE FOR TERRACE
8	DOMESTIC WATER SUPPLY (BOOSTER) (TOP SIX FLOORS)
9	DOMESTIC WATER SUPPLY (BY GRAVITY) 34th TO GROUND FLOOR
10	FLUSHING WATER SUPPLY (BY GRAVITY) 1st TO 40th FLOOR
11	DOMESTIC WATER SUPPLY RISER FOR O.H. TANK
12	FLUSHING WATER SUPPLY RISER FOR O.H. TANK

SN	FIRE FIGHTING PIPE LEGEND:–
A	HYDRANT PIPE ZONE–1
B	HYDRANT PIPE ZONE–2
C	HYDRANT PIPE ZONE–3
D	SPRINKLER PIPE ZONE–1
E	SPRINKLER PIPE ZONE–2
F	SPRINKLER PIPE ZONE–3
G	SPRINKLER STAND BY PIPE ZONE–1
H	SPRINKLER STAND BY PIPE ZONE–2
J	SPRINKLER STAND BY PIPE ZONE–3
K	DRAIN PIPE
FHC	FIRE HOSE CABINET

PLUMBING LEGEND:–	
DWS	DOMESTIC WATER SUPPLY
FWS	FLUSHING WATER SUPPLY
MFT	MULTI FLOOR TRAP
FT	FLOOR TRAP
UT	URINAL TRAP
FD	FLOOR DRAIN
FCO	FLOOR CLEAN OUT PLUG
COP	CLEAN OUT PLUG
BD	BALCONY DRAIN
DP	DRAIN POINT

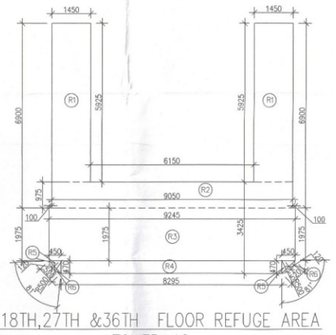
SCHEDULE OF DOORS & WINDOWS

TYPE	SIZE	LOCATION	DESCRIPTION	SILL LVL	LINTEL LVL
D	1200x2400	UNIT ENTRY	FIRE DOOR (1 HR)		2400
D1A	900x2400	BED ROOM	FIRE DOOR (1 HR)		2400
D1	900x2400	BED ROOM	MOULDED DOOR		2400
D2	750x2400	TOILET/STORE/ DRESSER	MOULDED DOOR		2400
D3	1575X2400	M.BED ROOM			2400
D4	900x2400	SERVICE PERSONAL	FIRE DOOR (1 HR)		2400
D5	750x2300	GARBAGE SPACE/PLUMBING SHAFT	MOULDED DOOR (1/2 HR)	100	2400
D6	1500x2700	ENTRANCE LOBBY	ALL GLASS DOOR		2700
D7	900x2300	FHC	MOULDED DOOR	100	2300
D8	900x2800	FIRE TOWER EXIT	MOULDED DOOR		2400
D9	600x2400	PLUMBING SHAFT	MOULDED DOOR (1/2 HR)	100	2400
D2a	750x2800	WAITING AREA/ROOM/SERVICE PERSONAL	FIRE DOOR (1 HR)		2400
FD2	1200x2300	ELECTRICAL SHAFT	PUMP,ELEC-FIRE DOOR/OWC-METAL DOOR (2 HR)	100	2400
FD4	1100x2400	STAIRCASE/LIFT LOBBY	FIRE DOOR(2 HR)		2400
FD6	600x2300	PLUMBING SHAFT	FIRE DOOR (2 HR)	100	2400
FD8	750x2300	LV	FIRE DOOR (2 HR)	100	2400
D2a	750x2400	WAITING AREA/ROOM/SERVICE PERSONAL	FIRE DOOR (1 HR)		2400
SD1	7275 X 2700	DINING/KITCHEN	AL. SLIDING DOOR		2700
			AL. WINDOW	1200	2700
SD2	6975 X 2700	BED ROOM	AL. SLIDING DOOR		2700
SD3	3700 X 2700	BED ROOM	AL. SLIDING DOOR		2700
SD4	3675 X 2700	BED ROOM	AL. SLIDING DOOR		2700
SD5	9300 X 2700	LOUNGE	AL. SLIDING DOOR		2700
SD6	2575 X 2700	BED ROOM	AL. SLIDING DOOR		2700
SD7	6775 X 2700	M.BED ROOM	AL. SLIDING DOOR/WINDOW	00/100	2700
DW1	1250 X 2700	DOOR	DOOR-WINDOW		2700
		WINDOW		100	2700
W1	1300 X 2600	LOBBY(FIXED GLAZED PANELS)	LOUVERED WINDOW	100	2700
W2	1085 X 2600	WAITING/SERV. PERS.	LOUVERED WINDOW	100	2700
FW2	1085 X 2600	WAITING/SERV. PERS.	FIRE GLASS (2 HR)	100	2700
W3	1550 X 1550	STAIRCASE	AL. GLAZED WINDOW	1200	2700
FW4	750 X 2600	WAITING/SERV. PERS.	FIRE GLASS (2 HR)	100	2700
W4	750 X 2600	WAITING/SERV. PERS.	AL. GLAZED WINDOW	100	2700
W5	1100 X1550	STAIRCASE	LOUVERED WINDOW	1200	2700
W6	1200 X1550	STAIRCASE	LOUVERED WINDOW	1200	2700
W7	600 X1550	STAIRCASE	LOUVERED WINDOW	1200	2700
W8	1050 X1550	LOBBY	LOUVERED WINDOW	1200	2700
V	1075x2100	TOILET	VENTILATOR	600	2700
FV1	1075x2100	TOILET	FIRE GLASS (2 HR)	600	2700
V2	1025x2100	TOILET	VENTILATOR	600	2700
V3	2450x2100	TOILET	VENTILATOR	600	2700
V4	750x2100	TOILET	VENTILATOR	600	2700
V5	600x2100	TOILET	VENTILATOR	600	2700



REFUGE FLOOR PLAN
TOWER– 16

REFUGE FLOOR	FLOOR LEVEL	UNITS	SERVICE PERSONAL UNIT
18th FLOOR	LVL+61850	5	5
27th FLOOR	LVL+91350	3	3
36th FLOOR	LVL+121950	3	3
	TOTAL UNITS =	09	09



18TH,27TH &36TH FLOOR REFUGE AREA
TOWER–16

18TH , 27TH & 36TH FLOOR REFUGE AREA TOWER-16

GROSS – A									
R1	=	2	X	1.450	X	5.925	=	17.183	SQM
R2	=	1	X	9.050	X	0.975	=	8.824	SQM
R3	=	1	X	9.245	X	1.975	=	18.259	SQM
R4	=	1	X	8.295	X	0.470	=	3.899	SQM
R5	=	2	0.5	0.470	X	0.450	=	0.212	SQM
						TOTAL	=	48.375	SQM
TOTAL REFUGE AREA	=	GROSS – A	+	GROSS – B					
		48.375	+	0.163					
			=	48.538		GROSS-C			
GROSS AREA OF 18TH,19TH & 27TH,28TH FLOOR		=	990.076	SQM					
GROSS AREA OF 36TH &37TH FLOOR		=	990.076						
		=	1980.152	SQM					
REFUGE AREA REQUIRED	=	(1980.152X0.3)/12.5	+	ADDITIONAL SPACE TO ACCOMMODATE WHEEL CHAIR SPACE @2.5 SQM PER 200 POPULATION					
	=	47.523	+	0.9					
	=	48.423	SQM						
REFUGE AREA PROVIDED	=	GROSS – C							
	=	48.519	SQM						

| ARC AREA | REFUGE AREA | | | | | | | | |