UPPER GROUND FLOOR AREA CALCULATION

TOTAL FAR AREA AT UPPER GROUND FLOOR = ADDITION AREA - DEDUCTION AREA

ENVELOPE AREA (A)

S.No.	Length		Breadth		Formula		No.		Area (SQM)
P01	13.840	x	3.000	X	1.00		1	=	41.520
P02	3.000	x	3.000	X	3.142 \ 1	4.000	1	=	21.209
P03	19.840	x	58.865	X	1.00		1	=	1167.882
P04	126.750	x	27.150	X	1.00		1	=	3441.263
P05	5.230	x	3.000	X	1.00		1	=	15.690
P06	8.230	x	9.310	X	1.00		1	=	76.623
P07	30.285	x	12.205	X	0.50		1	=	184.814
P08	26.160	x	12.855	\ 2	X	33.015	1	=	644.040
P09	26.160	x	24.945	\ 2	X	2.865	1	=	73.208
P10	26.705	x	23.605	\ 2	X	10.180	1	=	150.900
P11	3.170	x	0.880	X	0.50		1	=	0.959
P12	31.840	x	26.705	X	1.00		1	=	1384.387
P13	51.840	x	52.665	\ 2	X	2.015	1	=	105.289
P14	52.665	x	51.435	\ 2	X	2.865	1	=	149.123
P15	51.435	x	20.730	X	0.50		1	=	533.124
P16	3.280	x	0.395	X	0.87		1	=	0.895
P17	6.130	x	5.830	\ 2	X	3.265	1	=	19.525
P18	8.670	x	5.830	X	0.50		1	=	25.278
P19	13.510	x	11.930	\ 2	X	3.290	1	=	41.849
P20	3.650	x	0.655	X	0.67		1	=	1.311
P22	11.050	x	13.110	\ 2	X	27.665	1	=	334.199
P23	11.050	x	7.550	\ 2	X	14.985	1	=	199.361
P24	7.290	x	7.345	\ 2	X	0.245	1	=	1.795
P25	8.730	x	2.875	\ 2	X	24.615	1	=	144.059
P26	2.975	x	2.335	X	0.50		1	=	3.771
P27	3.910	x	0.705	X	0.67		1	=	1.847
P28	8.090	x	3.470	X	1.00		1	=	28.072
TOTAL ENVELOPE AREA (A)									8833.948

OPEN AREA (B)

D01	5.800	x	33.765	X	1.00		1	=	195.084
D02	9.130	x	6.435	\ 2	X	5.685	1	=	52.036
D03	5.765	x	9.130	\ 2	X	3.285	1	=	24.465
D04	6.960	x	5.765	\ 2	X	2.825	1	=	17.909
D05	9.585	x	6.500	\ 2	X	6.660	1	=	54.855
D06	4.350	x	4.350	X	0.50		1	=	9.461
D07	6.550	x	3.335	X	1.00		1	=	34.399
D08	6.550	x	2.640	X	0.50		1	=	8.646
D09	11.235	x	0.750	X	1.00		1	=	8.426
D10	11.235	x	1.450	X	1.00		1	=	16.291
D11	8.225	x	8.530	\ 2	X	0.755	1	=	6.325
D12	7.395	x	5.770	\ 2	X	4.025	1	=	29.495
D13	3.640	x	5.935	\ 2	X	1.415	1	=	15.444
D14	13.290	x	9.740	\ 2	X	8.810	1	=	101.447
D15	11.335	x	0.475	X	1.00		1	=	5.387
D16	11.235	x	1.450	X	1.00		1	=	16.291
D17	10.100	x	14.310	X	1.00		1	=	144.531
D18	11.800	x	4.025	X	1.00		1	=	47.745
D19	13.400	x	13.605	X	1.00		1	=	318.357
D20	20.425	x	23.400	\ 2	X	7.375	1	=	161.005
D21	7.635	x	18.345	X	1.00		1	=	72.323
D22	5.710	x	6.435	\ 2	X	1.800	1	=	10.931
D23	14.640	x	17.625	\ 2	X	1.200	1	=	19.363
D24	5.600	X	0.950	X	1.00		1	=	5.320
TOTAL OPEN AREA (B)									1407.863
TOTAL FAR AREA / GROUND COVERAGE AT UPPER GROUND FLOOR = (A - B)									7423.964

UPPER GROUND FLOOR TOILET CALCULATION

TOTAL FAR AREA AT GROUND FLOOR								7423.964	SQMT
ANCHOR STORE AREA								1114.800	SQMT
DENSITY AT GROUND FLOOR								2103.045	2103 POPULATION
NO.	PERMANENT POPULATION		FLOATING POPULATION		TOTAL REQUIRED		TOTAL PROVIDED		
	10%	210.30	90%	1892.74					
	MALE (2/3)	FEMALE (1/3)	MALE (2/3)	FEMALE (1/3)	MALE	FEMALE	MALE	FEMALE	
POPULATION	140	70	1262	631	–	–	–	–	
W.C.	5.61	4.67	5.05	3.94	11	9	12	9	
URINAL	4.67	–	25.24	–	30	–	30	–	
HIGH BASIN	5.61	2.80	5.05	4.51	11	7	11	7	

Exit Calculation For Upper Ground Floor

Total floor area	7423.964	sqm
Direct shop access in open	2562.310	sqm
Atrium side shop area	4871.654	sqm

Floors		Average occupant load as per NBCC	No. of occupant	As per NBCC (@ 10mm/ Person)	Exit Required	Exit Provided
Mercantile Area	4871.654	3	1623.88	10	16238.85	ST - 01 = 2000 ST - 04 = 2250 ST - 05 = 2250 ST - 06 = 2000 ST - 08 = 2000 ST - 10 = 2500 EXIT - 02 = 2450 EXIT - 03 = 2450 TOTAL STAIR = 17900 MM

MEZZANINE FLOOR AREA CALCULATION

TOTAL FAR AREA AT MEZZANINE FLOOR = ADDITION AREA - DEDUCTION AREA

ENVELOPE AREA (A)

S.No.	Length		Breadth		Formula		No.		Area (SQM)
M01	0.940	x	1.045	\ 2	X	0.225	1	=	0.253
M02	16.830	x	17.600	\ 2	X	2.150	1	=	37.109
M03	35.300	x	39.985	\ 2	X	11.620	1	=	437.404
M04	17.100	x	2.540	X	1.00		1	=	36.394
M05	9.765	x	11.620	\ 2	X	1.860	1	=	19.888
M06	9.515	x	11.375	\ 2	X	1.865	1	=	19.480
M07	16.935	x	2.835	X	1.00		1	=	48.013
M08	48.060	x	11.375	X	1.00		1	=	546.683
M09	23.930	x	2.835	X	1.00		1	=	67.813
M10	12.870	x	16.795	\ 2	X	8.225	1	=	121.997
M11	4.100	x	6.570	\ 2	X	6.130	1	=	32.704
M12	6.130	x	12.692	X	0.50		1	=	38.901
M13	1.480	x	2.625	X	0.50		1	=	1.943
M14	3.015	x	0.405	X	0.67		1	=	0.818
M15	10.345	x	11.595	\ 2	X	1.415	1	=	15.525
M16	1.350	x	2.465	X	0.50		1	=	1.664
M17	2.485	x	0.350	X	0.67		1	=	0.578
M18	3.650	x	6.570	X	0.50		1	=	8.705
TOTAL ENVELOPE AREA (A)									1436.069

OPEN AREA (B)

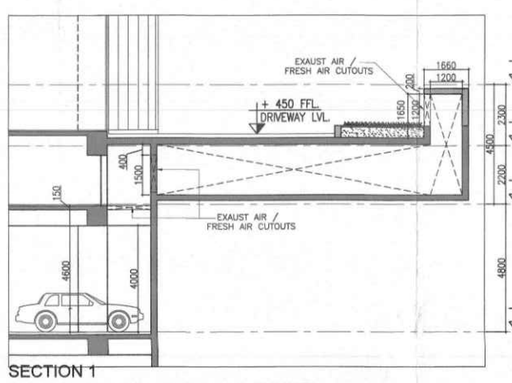
D01	3.495	x	6.170	\ 2	X	6.640	1	=	32.088
D02	4.085	x	6.640	X	1.00		12	=	325.493
D03	4.085	x	5.500	X	1.00		4	=	89.870
D04	4.075	x	6.640	X	1.00		1	=	27.058
D05	3.875	x	4.945	X	1.00		1	=	19.162
D06	2.185	x	3.875	\ 2	X	1.695	1	=	5.132
D07	3.860	x	4.950	X	1.00		1	=	19.107
D08	2.165	x	3.860	\ 2	X	1.690	1	=	5.083
D09	6.560	x	8.230	\ 2	X	4.140	1	=	30.615
D10	3.315	x	8.230	X	0.50		1	=	13.641
D11	3.910	x	1.020	\ 2	X	1.665	1	=	1.945
D12	0.315	x	2.550	X	0.67		1	=	0.538
D13	0.755	x	1.020	\ 2	X	2.335	1	=	2.250
D14	0.755	x	1.125	X	0.50		1	=	0.425
D15	5.325	x	7.505	X	1.00		1	=	39.956
D16	6.345	x	9.215	\ 2	X	4.025	1	=	91.315
D17	4.185	x	6.345	\ 2	X	3.205	1	=	16.874
D18	0.370	x	2.735	X	0.67		1	=	0.678
D19	1.735	x	4.185	\ 2	X	1.065	1	=	3.347
TOTAL DEDUCTION AREA (B)									663.586
TOTAL FAR AREA AT MEZZANINE FLOOR = (A - B)									772.483

SCHEDULE OF OPENINGS

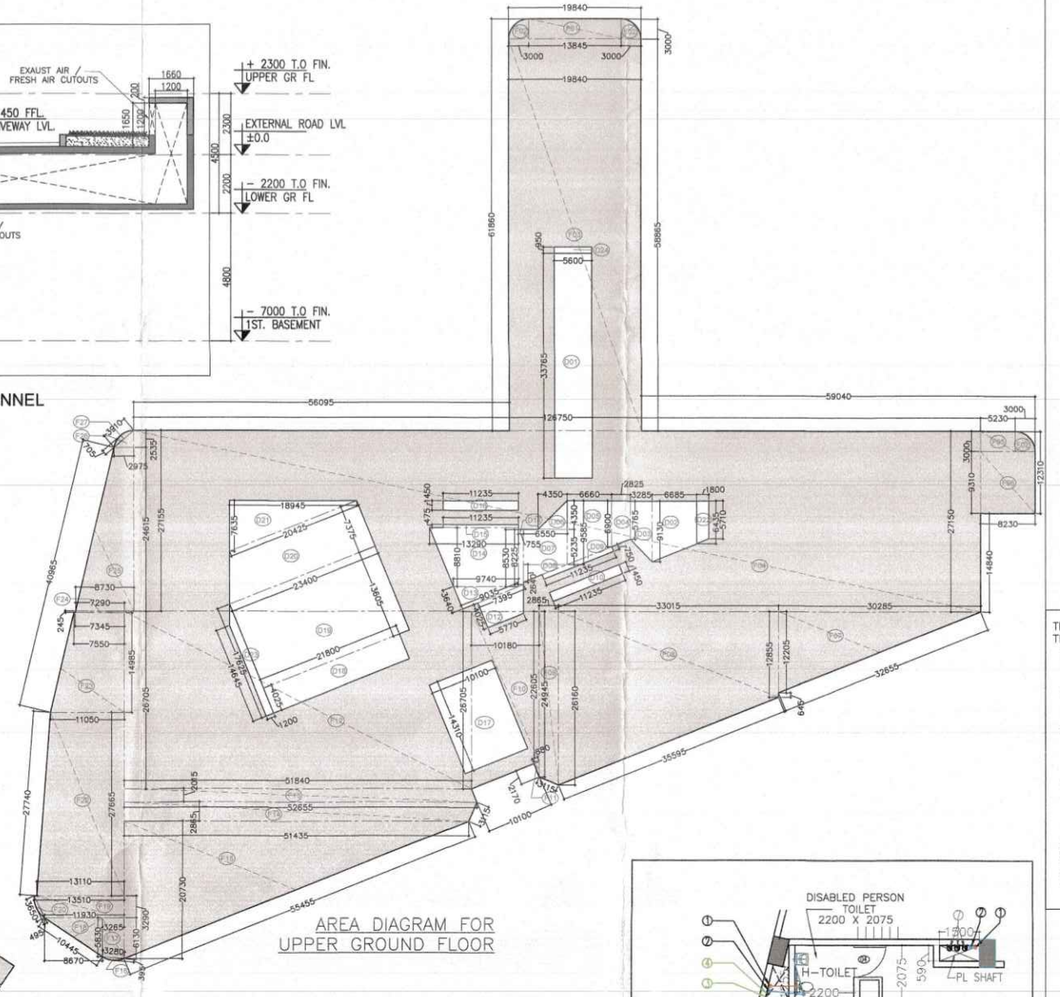
TYPE	WIDTH	HEIGHT	SILL HT.	LINTEL	TYPE	WIDTH	HEIGHT	SILL HT.	LINTEL
D1	750	2100	–	2100	FCD	2150	2400	–	2400
D2	900	2400	–	2400	FCD1	2000	2400	–	2400
D3	1000	2400	–	2400	FCD2	1500	2400	–	2400
D4	1200	2400	–	2400	FCD3	1200	2400	–	2400
D5	1500	2400	–	2400	GD	AS/SHOP/COMMERCIAL FACADE			2400
D6	2150	2400	–	2400	GL	AS/ELEVATION (OPENABLE)			3370
D7	1350	2400	–	2400					

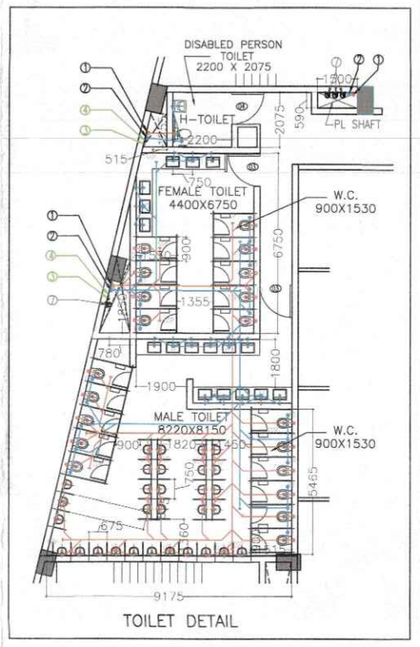
SCHEDULE OF PIPES :–

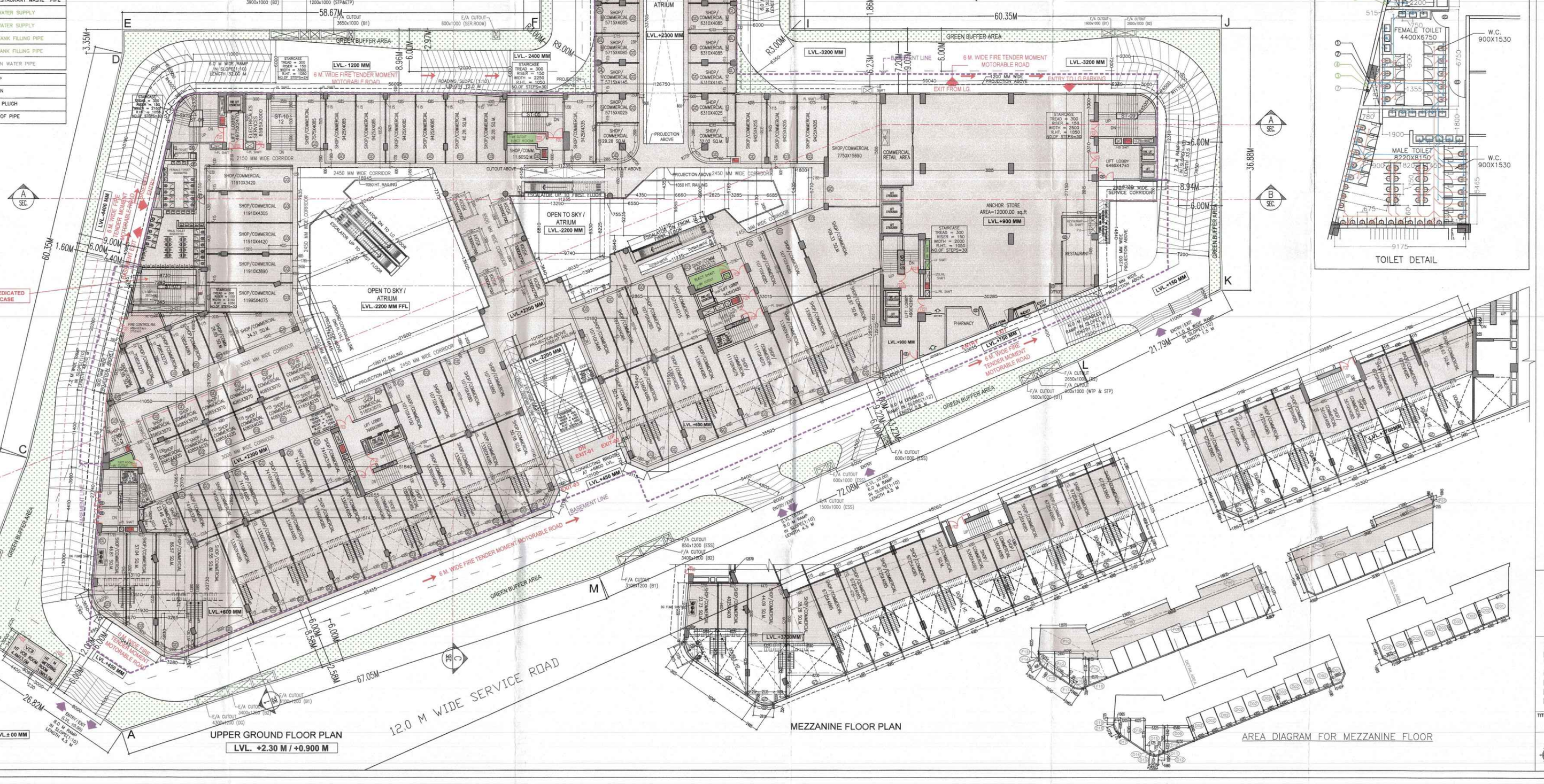
PIPE NO.	DESCRIPTION
①	110 OD SOIL PIPE
②	110 OD WASTE PIPE
②A	110 OD RESTAURANT WASTE PIPE
③	DOMESTIC WATER SUPPLY
④	FLUSHING WATER SUPPLY
⑤	DOMESTIC TANK FILLING PIPE
⑥	FLUSHING TANK FILLING PIPE
⑦	160 OD RAIN WATER PIPE
⊙ FT	FLOOR TRAP
⊙ FD	FLOOR DRAIN
⊙ COP	CLEAN OUT PLUGH
OD	OUTER DIA OF PIPE



SECTION 1
TYPICAL SECTION THROUGH TUNNEL







THIS DEVELOPMENT HAS BEEN CONCEIVED, DESIGNED AND DRAFTED ON THE BASIS OF THE FOLLOWING

1. ALL USABLE OFFICE SPACES/RETAIL SPACES (LIKE SHOP/COMMERCIAL AREAS, ENTERTAINMENT) WILL BE AIR–CONDITIONED THEREFORE, NO PROVISION HAS BEEN MADE FOR NATURAL VENTILATION OF SPACES.
2. ALL TOILETS/KITCHENS WILL BE MECHANICALLY VENTILATED, CONDITIONED AIR FROM THE FLOOR WILL BE SUCKED IN TO THE TOILETS/KITCHENS AND VENTED OUT THROUGH A VENT SHAFT.
3. ALL SPACES (OFFICE SPACES,RETAIL SPACES,SERVICE AREAS, PARKING BASEMENT AREAS) WILL BE ARTIFICIALLY LIT. ANY NATURAL LIGHT, WHICH IS AVAILABLE IN THE OFFICE SPACES IS ONLY INCIDENTAL AND NOT ESSENTIAL TO THE FUNCTIONING OF THE BUILDING.
4. 100% STANDBY GENERATING CAPACITY WILL BE PROVIDED FOR THE ENTIRE ELECTRICAL REQUIREMENT OF THE TOTAL SCHEME. THIS THEREFORE INCLUDES STANDBY GENERATION FOR ALL COMMON SERVICES,FIRE SERVICES, LIFTS ETC. AND ALSO THE ENTIRE ELECTRICAL LOAD FOR VENTILATION,AIR–CONDITIONING,LIGHTS AND ALL OFFICE EQUIPMENT.
5. BASEMENT WILL BE ARTIFICIALLY VENTILATED.
6. THIS BUILDING WILL BE SPRINKLED AS PER NBC NORMS.
7. HANDICAP RAMP WILL BE PROVIDED.
8. TRAVEL DISTANCE IS NOT MORE THAN 45 METER, AND PROVIDED IS MAX. 44 METER.

S.T.P.(HQ) Member Secretary B.P.A.C. | S.T.P.(G) Member B.P.A.C. | C.T.M(HR) Chairman B.P.A.C.

DTP(HQ) | ATP(HQ)

SANCTIONED TO BE READ WITH THIS OFFICE MEMO NO.: DATED : AD | PA | ATP

Ram Avtar Bassi JD(HQ)

Checked and found ... Memo No. 203938 dt. 22/2/24

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

DD(HQ) Municipal BPAC

UPPER GROUND AND MEZZANINE FLOOR PLANS

For Shishta Buildwell LLP Auth. Signatory — OWNER'S SIGN

GIAN P. MATHUR ARCHITECT B. Arch., M.C.A. I.I.A CA No. 80/5769 — ARCHITECT'S SIGN

PROJECT:– PROPOSED BUILDING PLAN OF COMMERCIAL COLONY ON THE AREA MEASURING –3.46875 ACRES (LICENSE NO.–268 OF 2023 DATED 27/12/2023) IN SECTOR –92, GURUGRAM BEING DEVELOPED BY DIYA REALTECH PVT.LTD.IN COLLABORATION WITH SHISHTA BUILDWELL LLP.

TITLE:– UPPER GROUND & MEZZANINE FLOOR PLANS

DRG.NO.:– 05

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DRAWN: DC | CHKD | SCALE:– 1:250 | DATE:– 08/06/2024