GROUND COVERAGE AREA CALCULATIONS DETAIL

AREA CALCULATION

S. NO.	SHAPE	LENGTH (L) (HOR.) /mts.	WIDTH (B) (HOR.) /mts.	HEIGHT (H) (VERT.) /mts.	FACTOR	AREA (SQ.MTS.)	FORMULA
			ADDITIONS				
A1	TRIANGLE	9.09		17.525	0.5	79.651	0.5XLXH
A2	TRAPEZIUM	8.48	9.09	6.265	1	55.038	(L+B)/2 X H
A3	TRIANGLE	8.48		10.265	0.5	43.524	0.5XLXH
A4	TRAPEZIUM	34.055	43.015	4.925	1	189.785	(L+B)/2 X H
A5	TRAPEZIUM	43.015	70.535	22.73	1	1290.496	(L+B)/2 X H
A6	TRAPEZIUM	70.535	71.395	1.145	1	81.255	(L+B)/2 X H
A7	TRAPEZIUM	71.395	75.835	10.41	1	766.332	(L+B)/2 X H
A8	TRAPEZIUM	75.835	75.385	3.09	1	233.635	(L+B)/2 X H
A9	TRAPEZIUM	75.385	69.79	6.755	1	490.329	(L+B)/2 X H
A10	TRAPEZIUM	69.79	50.6	24.225	1	1458.224	(L+B)/2 X H
A11	TRAPEZIUM	50.6	48.045	2.12	1	104.564	(L+B)/2 X H
A12	TRIANGLE	17.93		14.2	0.5	127.303	0.5XLXH
A13	TRAPEZIUM	17.93	18.65	6.82	1	124.738	(L+B)/2 X H
A14	TRAPEZIUM	18.65	16.84	2.19	1	38.862	(L+B)/2 X H
A15	TRAPEZIUM	16.84	18.49	1.355	1	23.936	(L+B)/2 X H
A16	TRIANGLE	2.86		3.465	0.5	4.955	0.5XLXH
A17	TRAPEZIUM	3.465	4.435	1.46	1	5.767	(L+B)/2 X H
A18	TRAPEZIUM	4.435	8.72	14.26	1	93.795	(L+B)/2 X H
A19	TRAPEZIUM	8.72	6.915	3.71	1	29.003	(L+B)/2 X H
A20	TRAPEZIUM	6.915	5.795	0.43	1	2.733	(L+B)/2 X H
A20i	TRAPEZIUM	5.795	6.57	2.03	1	12.550	(L+B)/2 X H
A21	RECTANGLE	19.035	6.57		1	125.060	LXB
A22	TRAPEZIUM	19.035	19.55	1.35	1	26.045	(L+B)/2 X H
A23	TRAPEZIUM	19.55	16.44	6.315	1	113.638	(L+B)/2 X H
A24	TRIANGLE	16.44		4.915	0.5	40.401	0.5XLXH
A25	RECTANGLE	62.27	19.845		1	1235.748	LXB
A26	TRAPEZIUM	17.32	15.1	1.96	1	31.772	(L+B)/2 X H
A27	TRAPEZIUM	27.635	27.6	2.965	1	81.886	(L+B)/2 X H
A28	TRAPEZIUM	17.315	15.095	1.96	1	31.762	(L+B)/2 X H
A29	TRIANGLE	1.675		1.675	0.5	1.403	0.5XLXH
A30	TRIANGLE	1.67		1.675	0.5	1.399	0.5XLXH
A32	TRAPEZIUM	42.625	44.14	2.12	1	91.971	(L+B)/2 X H
A33	TRAPEZIUM	44.14	50.31	20.805	1	982.516	(L+B)/2 X H
A34	TRAPEZIUM	50.31	57.47	18.555	1	999.929	(L+B)/2 X H
A35	RECTANGLE	92.83	57.47		1	5334.940	LXB
A36	TRIANGLE	64.04		27.555	0.5	882.311	0.5XLXH
A37	TRAPEZIUM	27.555	26.865	3.365	1	91.562	(L+B)/2 X H
A38	TRIANGLE	25.43		26.865	0.5	341.588	0.5XLXH
A47	TRIANGLE	34.31		36.25	0.5	621.869	0.5XLXH
A48	RECTANGLE	17.775	21.225		1	377.274	LXB
A49	TRAPEZIUM	11.455	9.95	3.78	1	40.455	(L+B)/2 X H
A50	TRAPEZIUM	9.95	8.005	2.12	1	19.032	(L+B)/2 X H
A51	TRAPEZIUM	9.975	5.905	3.855	1	30.609	(L+B)/2 X H
A52	TRAPEZIUM	16.42	14.655	1.67	1	25.948	(L+B)/2 X H
A53	TRAPEZIUM	16.54	16.42	4.24	1	69.875	(L+B)/2 X H
A54	TRIANGLE	4.68		0.205	0.5	0.480	0.5XLXH
A55	RECTANGLE	5.95	5.96		1	35.462	LXB
A56	TRIANGLE	1.52		3.95	0.5	3.002	0.5XLXH
A57	TRIANGLE	3.08		5.95	0.5	9.163	0.5XLXH
A58	RECTANGLE	13.17	3.08		1	40.564	LXB
A59	RECTANGLE	1.495	1.565		1	2.340	LXB
						TOTAL AREA (X)	16946.476 SQ.M.

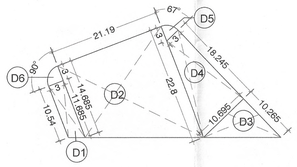
		pie	RADIUS	RADIUS	ANGLE		
AR15	SECTOR	3.14	2.965	2.965	49	360	3.757
AR16	SECTOR	3.14	2.965	2.965	49	360	3.757
AR17	SECTOR	3.14	1.565	1.565	90	360	1.923
						TOTAL (Y1)	9.437
						TOTAL (Y1+Y2) = Y	54.974

TOTAL ADDITIONS (X+Y)	17001.450	SQ.M.

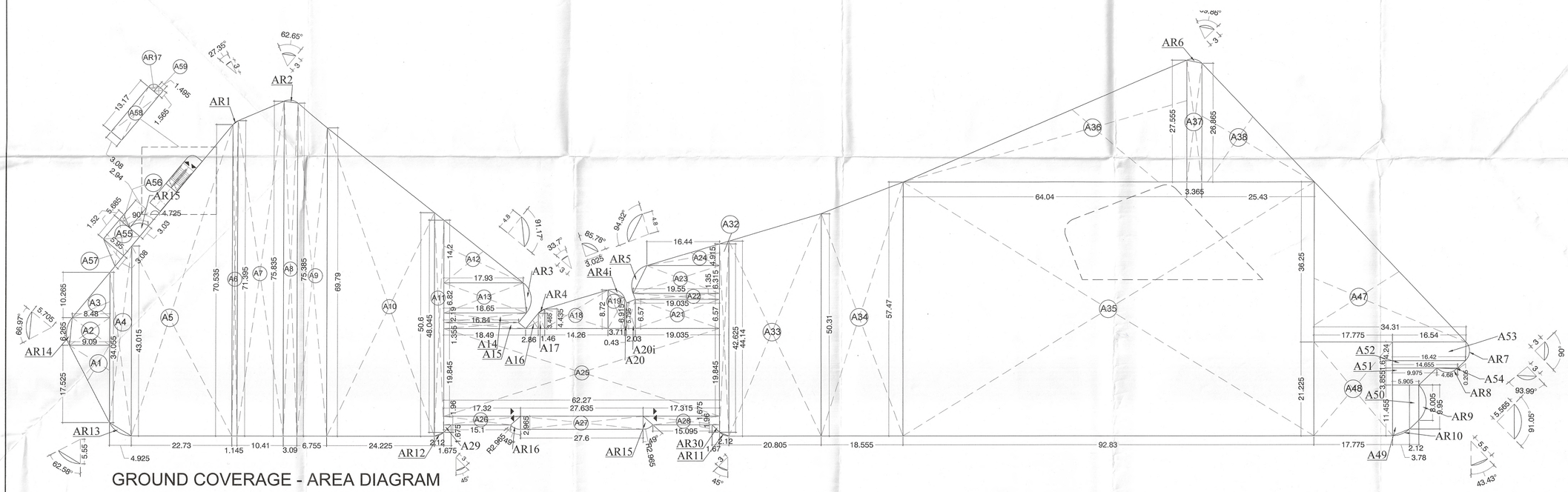
S. NO.	SHAPE	pie	ARC RADIUS (R)	ARC RADIUS (R)	ANGLE		AREA OF SECTOR (A) pie*(r2)*(angle/360)	FACTOR	ARC RADIUS (R)	ARC RADIUS (R)	SIN (ANGLE)	AREA OF TRIANLE (B) (1/2)*(R2)* sin(angle)	AREA OF SEGMENT A-B
AR 1	SEGMENT	3.14	3	3	27.35	360	2.147	0.5	3	3	0.459	2.066	0.081
AR 2	SEGMENT	3.14	3	3	62.65	360	4.918	0.5	3	3	0.888	3.996	0.922
AR 3	SEGMENT	3.14	4.8	4.8	91.17	360	18.322	0.5	4.8	4.8	0.999	11.508	6.813
AR 4	SEGMENT	3.14	3	3	33.7	360	2.645	0.5	3	3	0.554	2.493	0.152
AR 4i	SEGMENT	3.14	3.025	3.025	85.78	360	6.846	0.5	3.025	3.025	0.997	4.562	2.285
AR 5	SEGMENT	3.14	4.8	4.8	94.32	360	18.955	0.5	4.8	4.8	0.9971	11.487	7.468
AR 6	SEGMENT	3.14	3	3	69.86	360	5.484	0.5	3	3	0.938	4.221	1.263
AR 7	SEGMENT	3.14	3	3	90	360	7.065	0.5	3	3	1	4.500	2.565
AR 8	SEGMENT	3.14	3	3	93.99	360	7.378	0.5	3	3	0.9975	4.489	2.889
AR 9	SEGMENT	3.14	5.565	5.565	91.05	360	24.594	0.5	5.565	5.565	0.9973	15.443	9.152
AR 10	SEGMENT	3.14	5.5	5.5	43.43	360	11.459	0.5	5.5	5.5	0.687	10.391	1.068
AR 11	SEGMENT	3.14	3	3	45	360	3.533	0.5	3	3	0.707	3.182	0.351
AR 12	SEGMENT	3.14	3	3	45	360	3.533	0.5	3	3	0.707	3.182	0.351
AR 13	SEGMENT	3.14	5.55	5.55	62.58	360	16.813	0.5	5.55	5.55	0.887	13.661	3.152
AR 14	SEGMENT	3.14	5.705	5.705	66.97	360	19.012	0.5	5.705	5.705	0.92	14.972	4.040
AR 15	SEGMENT	3.14	3.03	3.03	90	360	7.207	0.5	3.03	3.03	0.92	4.223	2.984
												TOTAL (Y2)	45.537

		DEDUCTIONS					
D1	TRAPEZIUM	10.54	11.685	3	1	33.338	(L+B)/2 X H
D2	TRAPEZIUM	14.685	22.8	21.19	1	397.154	(L+B)/2 X H
D3	TRIANGLE	10.265		10.695	0.5	54.892	0.5XLXH
D4	TRAPEZIUM	3	10.695	18.245	1	124.933	(L+B)/2 X H
		TOTAL (A)				610.316	
		pie	RADIUS	RADIUS	ANGLE		
D5	SECTOR	3.14	3	3	67	360	5.260
D6	SECTOR	3.14	3	3	90	360	7.065
		TOTAL (B)					12.325
		TOTAL DEDUCTIONS (A+B+C)				622.640	

NET GROUND COVERAGE AREA		
TOTAL ADDITIONS - TOTAL DEDUCTIONS	16378.810	SQ.M.



GROUND COVERAGE
AREA DIAGRAM - DEDUCTIONS



GROUND COVERAGE - AREA DIAGRAM

DTP (HQ)

S.T.P (HQ) Member Scrutiny B.P.A.C

S.T.P (G) Member B.P.A.C

C.T.P (W) Chairman B.P.A.C

Consultant Architect

DTP (HQ)

DTP (T) MEMBER B.P.A.C

(Dinesh Kumar) PA(HQ)

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. ALL DIMENSIONS ARE IN METERS.

SANCTIONED
TO BE READ WITH THIS OFFICE
MEMO NO.: 4901
DATED: 9-02-2024

PROJECT:

"PROPOSED BUILDING PLANS OF COMMERCIAL COLONY MEASURING 3.6562 ACRES (LICENSE NO. 60 OF 2013 DATED 16.07.2013) AND 3.9937 ACRES (LICENSE NO. 61 OF 2013 DATED 16.07.2013) TOTAL AREA MEASURING 7.6499 ACRES IN SECTOR – 82, GURUGRAM MANESAR URBAN COMPLEX BEING DEVELOPED BY ELAN IMPERIAL PRIVATE LIMITED (FORMERLY KNOWN AS AMBIENCE INFRASTRUCTURE DEVELOPERS PVT. LTD.)"

ARCHITECTS

OWNER'S SEAL & SIGNATURE

For Elan Imperial Private Limited
Authorised Signatory

ARCHITECT'S SEAL & SIGNATURE

RAJINDER KUMAR
CA/2490/75

SEP.-2023.	Scale : 1:350	
Drawing Title:- GROUND COVERAGE & AREA DIAGRAM		Drawing No.- A-03