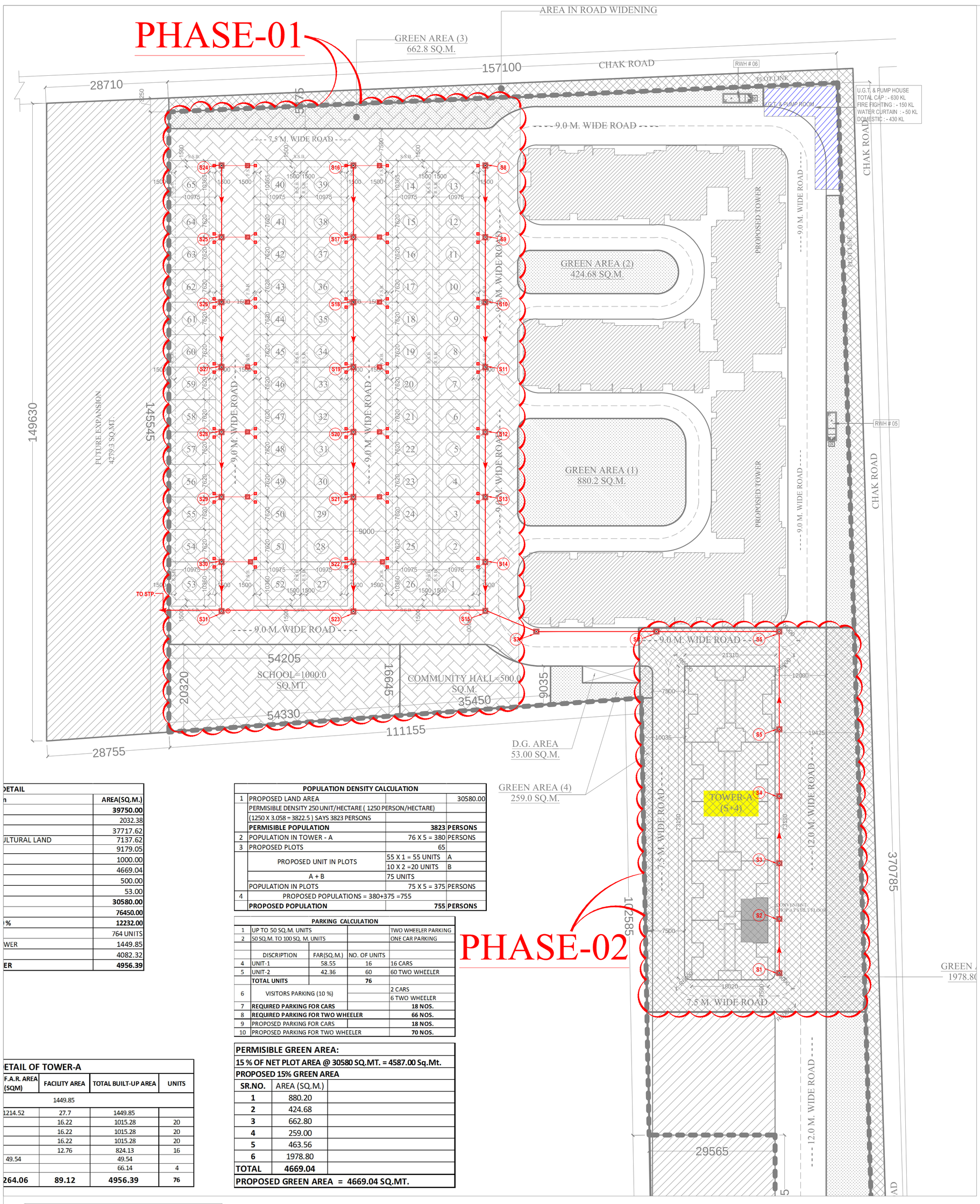

DETAIL	
n	AREA(SQ.M.)
	39750.00
	2032.38
	37717.62
ULTURAL LAND	7137.62
	9179.05
	1000.00
	4669.04
	500.00
	53.00
	30580.00
	76450.00
%	**12232.00**
	764 UNITS
WER	1449.85
	4082.32
ER	**4956.39**

POPULATION DENSITY CALCULATION			
1	PROPOSED LAND AREA		30580.00
	PERMISIBLE DENSITY 250 UNIT/HECTARE (1250 PERSON/HECTARE)		
	(1250 X 3.058 = 3822.5) SAYS 3823 PERSONS		
	PERMISIBLE POPULATION	**3823**	**PERSONS**
2	POPULATION IN TOWER - A	76 X 5 = 380	PERSONS
3	PROPOSED PLOTS	65	
	PROPOSED UNIT IN PLOTS	55 X 1 = 55 UNITS	A
		10 X 2 =20 UNITS	B
	A + B	75 UNITS	
	POPULATION IN PLOTS	75 X 5 = 375	PERSONS
4	PROPOSED POPULATIONS = 380+375 =755		
	PROPOSED POPULATION	**755**	**PERSONS**

PARKING CALCULATION				
1	UP TO 50 SQ.M. UNITS			TWO WHEELER PARKING
2	50 SQ.M. TO 100 SQ. M. UNITS			ONE CAR PARKING
	DISCRIPTION	FAR(SQ.M.)	NO. OF UNITS	
4	UNIT-1	58.55	16	16 CARS
5	UNIT-2	42.36	60	60 TWO WHEELER
	TOTAL UNITS		**76**	
6	VISITORS PARKING (10 %)			2 CARS
				6 TWO WHEELER
7	**REQUIRED PARKING FOR CARS**			**18 NOS.**
8	**REQUIRED PARKING FOR TWO WHEELER**			**66 NOS.**
9	PROPOSED PARKING FOR CARS			**18 NOS.**
10	PROPOSED PARKING FOR TWO WHEELER			**70 NOS.**

PERMISIBLE GREEN AREA:

15 % OF NET PLOT AREA @ 30580 SQ.MT. = 4587.00 Sq.Mt.

PROPOSED 15% GREEN AREA

SR.NO.	AREA (SQ.M.)
1	880.20
2	424.68
3	662.80
4	259.00
5	463.56
6	1978.80
TOTAL	**4669.04**

PROPOSED GREEN AREA = 4669.04 SQ.MT.

ETAIL OF TOWER-A			
F.A.R. AREA (SQM)	FACILITY AREA	TOTAL BUILT-UP AREA	UNITS
	1449.85		
1214.52	27.7	1449.85	
	16.22	1015.28	20
	16.22	1015.28	20
	16.22	1015.28	20
	12.76	824.13	16
49.54		49.54	
		66.14	4
264.06	**89.12**	**4956.39**	**76**

NOTES : SEWERAGE SYSTEM

1. THE SIZE OF MANHOLE SHALL BE AS UNDER (INNER SIZES)
   a) Service Manhole 1100 m.m. depth — 600 x 600 m.m.
   b) 900 to 1650 m.m. depth — 900 m.m. dia.
   c) 1650 to 2250 m.m. depth — 1200 m.m. dia.
   d) Above 2250 m.m. depth — 1500 m.m. dia.
2. The levels of sewer lines has been worked out on the basis of certain ground level and for certain pipe lengths between two manholes. the invert levels has to be strictly followed. however, the slope of line may be slightly changed.
3. For any descripency / ommission the matter should refer to the consultants before execution.
4. Manhole shall be provided at following places :-
   a) At the start of each sewer line.
   b) At every junction and position where there is change of size, gradient and alignment.
   c) At not more than 45 meter interval in straight length.
5. Where the diameter of pipe is increased the crown of the pipe shall be fixed at the same level and necessary slope shall be given in the invert of the manhole chamber.
6. The structural design of manholes / pipe bedding has to be done for local field conditions such as filled up soil / black cotton soil / high sub soil conditions.
7. This drawing shall be read along with the detailed landscape plan & ground floor plan of respective building for exact location of appurtenances / man holes etc.
8. Sewer line under the road shall be encased with 150 thick, pcc 1:2:4 allround.
9. Manhole cover should be finished with finished formation level as per landscape drawing. the cover of manhole shall be square as per appurtenances drawing & should be co-ordinated with landscape drawing.
10. This drawing shall be coordinated with other drawing i.e. architecture, structural, electrical, landscape & other relevant drawing.
11. Material of pipe :-
    a) Upto 250 m.m. dia. :- uPVC / DWC (SN4) Pipe with rubber ring joint as per IS : 16098 (part-1) or (part-2) (hollowcore / foamcore or PE-DWC type)
    b) 300 m.m. & above dia. :- RCC (NP 3) Pipe with rubber ring joint
12. In the areas subject to subsidence or filled up soil (due to exces excavation at site for construction of basements) the sewer lines & manhole should be laid on suitable support or concrete cradle supported on piles or suitable foundation as per structural design.
13. In case where sewers are laid in high subsoil conditions manholes should be constructed in r.c.c. garde m-25.
14. The width of trench for sewer and drainage should be d+ 400mm. (d= o.d. of pipe).
15. Shoring / timbering should be adequate to prevent caving-in of the trench walls of subsidence of areas adjacent to the trench. an engineer-in-charge in consultation with a structural engineer should provide adequate arrangement to prevent caving-in.

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		SERVICE MANHOLE (INSIDE PLOT) SIZE : 600 X 600 & IL (-) 1000
2.	M.H.	SERVICE MANHOLE (OUTSIDE PLOT) SIZE : 600 X 600 & IL (-) 1100
3.	M.H.	MANHOLE
4.		160Ø SERVICE CONNECTION PIPE
5.		SEWER LINE

NOTE: EXTERNAL MUNICIPAL SEWER LEVEL TO BE VERIFIED AT SITE BEFORE THE LAYING OF THE SITE SEWERAGE ANY DISCREPANCIES IN LEVELS TO BE IMMEDIATELY REPORTED

SPECIAL NOTES :

This drawing shall be read in conjunction with Appurtenance Details drawing no. KM / 19B01 / ES - 06

Design of Sewerage system ForKESHAV MAJISTIC

S.No.	Line No.		Length	Pipe Size(mm)	Slope (1 in)	Ground Level(mm)		Crown Level(mm)		Invert Level(mm)		Depth(mm)	
1	S1	S2	11.00	200	200	0.000	0.000	-800	-855	-800	-855	800	855
2	S2	S3	12.00	200	200	0.000	0.000	-855	-915	-855	-915	855	915
3	S3	S4	14.00	200	200	0.000	0.000	-915	-985	-915	-985	915	985
4	S4	S5	22.00	200	200	0.000	0.000	-985	-1095	-985	-1095	985	1095
5	S5	S6	27.00	200	200	0.000	0.000	-1095	-1230	-1095	-1230	1095	1230
6	S6	S7	27.00	200	200	0.000	0.000	-1230	-1365	-1230	-1365	1230	1365
7	S7	S15	12.00	200	100	0.000	0.000	-1365	-1485	-1365	-1485	1365	1485
8	S8	S9	14.00	200	200	0.000	0.000	-1485	-1555	-1485	-1555	1485	1555
9	S9	S10	14.00	200	100	0.000	0.000	-1555	-1695	-1555	-1695	1555	1695
10	S10	S11	14.00	200	200	0.000	0.000	-1695	-1765	-1695	-1765	1695	1765
11	S11	S12	14.00	200	200	0.000	0.000	-1765	-1835	-1765	-1835	1765	1835
12	S12	S13	14.00	200	200	0.000	0.000	-1835	-1905	-1835	-1905	1835	1905
13	S13	S14	14.00	200	200	0.000	0.000	-1905	-1975	-1905	-1975	1905	1975
14	S14	S15	10.00	200	200	0.000	0.000	-1975	-2025	-1975	-2025	1975	2025
15	S15	S23	14.00	200	200	0.000	0.000	-2025	-2095	-2025	-2095	2025	2095
16	S16	S17	14.00	200	200	0.000	0.000	-800	-870	-800	-870	800	870
17	S17	S18	14.00	200	200	0.000	0.000	-870	-940	-870	-940	870	940
18	S18	S19	14.00	200	200	0.000	0.000	-940	-1010	-940	-1010	940	1010
19	S19	S20	14.00	200	200	0.000	0.000	-1010	-1080	-1010	-1080	1010	1080
20	S20	S21	14.00	200	200	0.000	0.000	-1080	-1150	-1080	-1150	1080	1150
21	S21	S22	14.00	200	200	0.000	0.000	-1150	-1220	-1150	-1220	1150	1220
22	S22	S23	10.00	200	200	0.000	0.000	-1220	-1270	-1220	-1270	1220	1270
23	S23	S31	30.00	200	200	0.000	0.000	-2095	-2245	-2095	-2245	2095	2245
24	S24	S25	14.00	200	200	0.000	0.000	-800	-870	-800	-870	800	870
25	S25	S26	14.00	200	200	0.000	0.000	-870	-940	-870	-940	870	940
26	S26	S27	14.00	200	200	0.000	0.000	-940	-1010	-940	-1010	940	1010
27	S27	S28	14.00	200	200	0.000	0.000	-1010	-1080	-1010	-1080	1010	1080
28	S28	S29	14.00	200	200	0.000	0.000	-1080	-1150	-1080	-1150	1080	1150
29	S29	S30	14.00	200	200	0.000	0.000	-1150	-1220	-1150	-1220	1150	1220
30	S30	S31	10.00	200	200	0.000	0.000	-1220	-1270	-1220	-1270	1220	1270
31	S31	STP	12.00	200	200	0.000	0.000	-2245	-2305	-2245	-2305	2245	2305

Manhole schedule

S.No.	Line No.	Type of Manhole
1	S1	A
2	S2	A
3	S3	A
4	S4	A
5	S5	A
6	S6	A
7	S7	A
8	S8	A
9	S9	A
10	S10	B
11	S11	B
12	S12	B
13	S13	B
14	S14	B
15	S15	B
16	S16	B
17	S17	B
18	S18	B
19	S19	B
20	S20	A
21	S21	A
22	S22	A
23	S23	B
24	S24	A
25	S25	A
26	S26	A
27	S27	A
28	S28	A
29	S29	A
30	S30	A
31	S31	B

N
W E
S

PROJECT :-

'KESHAV MAJESTIC' GROUP HOUSING AT KHASRA NO. -79,80,81, &83 (PART) VILL.- MAUZA SUNRAKH BANGAR, VRINDAVAN DIS. - MATHURA, U.P.

BUILDERS & PROMOTER :-

BRAJBHOOMI BUILDTECH PVT.LTD.
HOUSE NO.-10, JANGPURA ROAD, BHOGAL
NEW DELHI - 110014

SCALE:- 1:500
DRAWN BY :- BB
CHECKED BY :- PKS
DRG.NO.-PL-01

DRAWING TITLE :-
EXTERNAL SEWER PLAN

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