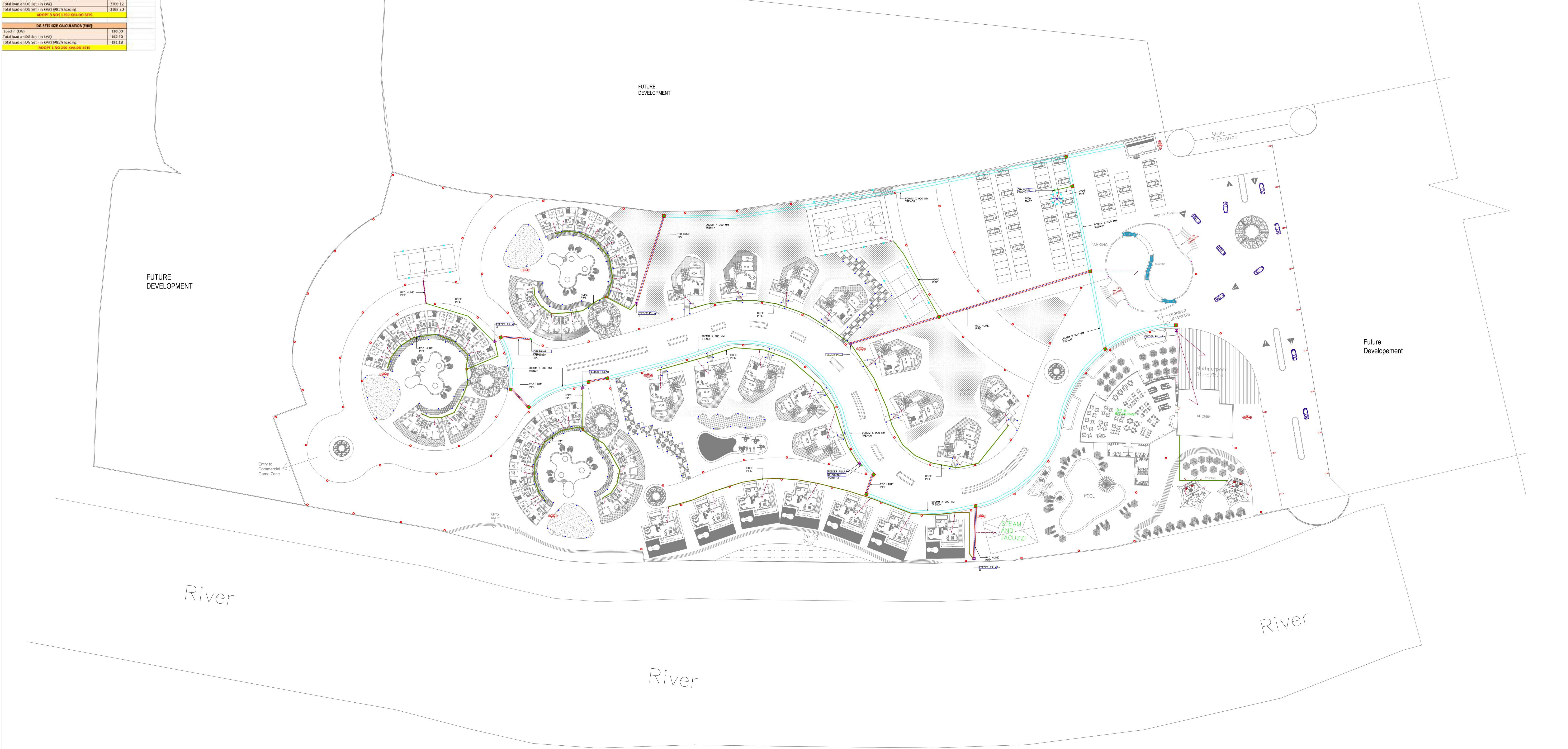


ESS-1				
Load Sheet For Transformer Sizing				
S. No.	Item Description	Connected Load (KW)	Diversity Factor	Demand Load (KW)
1	56 Units @ 20 KW Load	1120.00	1.00	1120.00
2	Reception	20.00	0.80	16.00
3	Kitchen with Restaurant	220.00	0.80	176.00
4	Multipurpose Store	90.00	0.80	72.00
5	Pool	50.00	0.80	40.00
6	Basket Ball Court	3.00	0.80	2.40
7	2Nos. Badminton Court	4.00	0.80	3.20
8	Steam Sauna	25.00	0.80	20.00
9	Gaze & Cabaret Rooms	5.00	0.80	4.00
10	7Nos Fountain@SKW	35.00	0.80	28.00
11	3Nos Car Charging@SKW	15.00	0.80	12.00
12	Boiler Side	5.00	0.80	4.00
13	Plumbing	50.00	1.00	50.00
14	Fire Fighting	180.00	1.00	180.00
15	STP	30.00	1.00	30.00
16	30 Units @ 20 KW Load	600.00	1.00	600.00
17	External Light	80.00	1.00	80.00
TOTAL		2482.00		2387.60
TRANSFORMER SIZE CALCULATION				
Load in (KW)		2387.60		
Add 20% Future Load		477.52		
Total Load in (KW)		2865.12		
Total load on Transformer (in KVA) @ 80% diversity		2292.10		
Total load on Transformer (in KVA)		2865.12		
Total load on Transformer (in KVA) @90% loading		3183.47		
ADOPT 3 NOS 3300KVA TRANSFORMER				
DG SETS SIZE CALCULATION				
Load in (KW)		2257.60		
Add 20% Future Load		451.52		
Total Load in (KW)		2709.12		
Total load on DG Set (in KW) @ 80% diversity		2167.30		
Total load on DG Set (in KVA)		2709.12		
Total load on DG Set (in KVA) @85% loading		3187.33		
ADOPT 3 NOS 3300 KVA DG SETS				
DG SETS SIZE CALCULATION(FIRE)				
Load in (KW)		130.00		
Total load on DG Set (in KVA)		162.50		
Total load on DG Set (in KVA) @85% loading		189.19		
ADOPT 1 NOS 200 KVA DG SETS				

LEGEND:-	
	POLE LIGHT
	POST TOP
	IN GROUND LIGHT
	BOLLARD
	FLOOD LIGHT
	UNDER GROUND CABLE
	ELECTRICAL MAN HOLE
	CABLE TRENCH
	RCC HUME PIPE
	HDPE PIPE



PROJECT:	SUB. TITLE:	SCALE:	DRG. NO.:	Copy	Date	Revision	ARCHITECT :- ThirdVendor Studios Pvt Ltd. 3/12 Karuna Complex, Vijay Khand, Gomti Nagar,Lucknow E : thirdvendor@gmail.com I W : www.thirdvendor.com	MEP CONSULTANT : 1/298, VIRAT KHAND, GOMTI NAGAR LUCKNOW - 226010 MO :- 7011766219
PROPOSED RESORT SITUATED AT GATA NO. 1166 K,1226 GRAM BHERUMPUR,	SITE LAYOUT	AS/SHEET	RC/ELE-01					
	DRG. TITLE:-	DATE:	DRN BY:	Drg No.:-				
	EXTERNAL ELECTRICAL LAYOUT	MAR. -2021	SUNIL					
			CHECKED BY:					