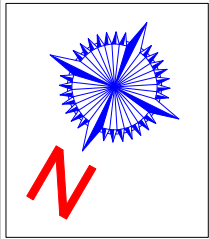


Electrical Load Calculation									
S.no	Description	No. of unit	Load per Unit	Total Load					
1	Existing Tower-T1 (B+G+4)								
2	Proposed Tower-T2 (2B+G+17)								
3	Office Area	18731 sqm @	150.0 W/sqm	= 2810 KW					
4	Office Area	28327 sqm @	150.0 W/sqm	= 4249 KW					
COMMON SERVICES									
5	Water Pump/ Tube Well/ Water Treatment/ Softening Plant			= 70 KW					
6	STP / ETP			= 70 KW					
7	Elevator (Tower-T1)	6 nos @	4 KW	= 24 KW					
8	Elevator (Tower-T2)	7 nos @	8 KW	= 56 KW					
9	Basement_Ventilation_Tower-T1	4138 sqm @	1.0 W/sqm	= 4 KW					
10	Basement_Ventilation_Tower-T2	18057 sqm @	1.0 W/sqm	= 18 KW					
11	Basement_Ventilation_Tower-T1	29 KW @	30 %	= 9 KW					
12	Basement_Ventilation_Tower-T2	199 KW @	30 %	= 60 KW					
13	Mechanical Car Parking			= 25 KW					
14	External Lighting / Sillage	2 nos @	10 KW	= 20 KW					
15	Fire pumps (only jockey pumps have been considered)	2 set @	15 KW	= 30 KW					
Total Load = 7444 KW									
By taking Diversity factor 75 % => 5583 KW									
By taking Power factor 0.90 => 6200 KVA									
Total Electrical Load = 6200 KVA									
Transformer Loading 80 % => 7750 KVA									
Recommended Transformers = 4 nos 2000 KVA									
By taking Power factor 0.80 => 6979 KVA									
Therefore, Total Essential Electrical Load									
DC Loading 85 % => 8211 KVA									
Recommended DC sets - 4 nos 2000 KVA + 1 nos 500 KVA									



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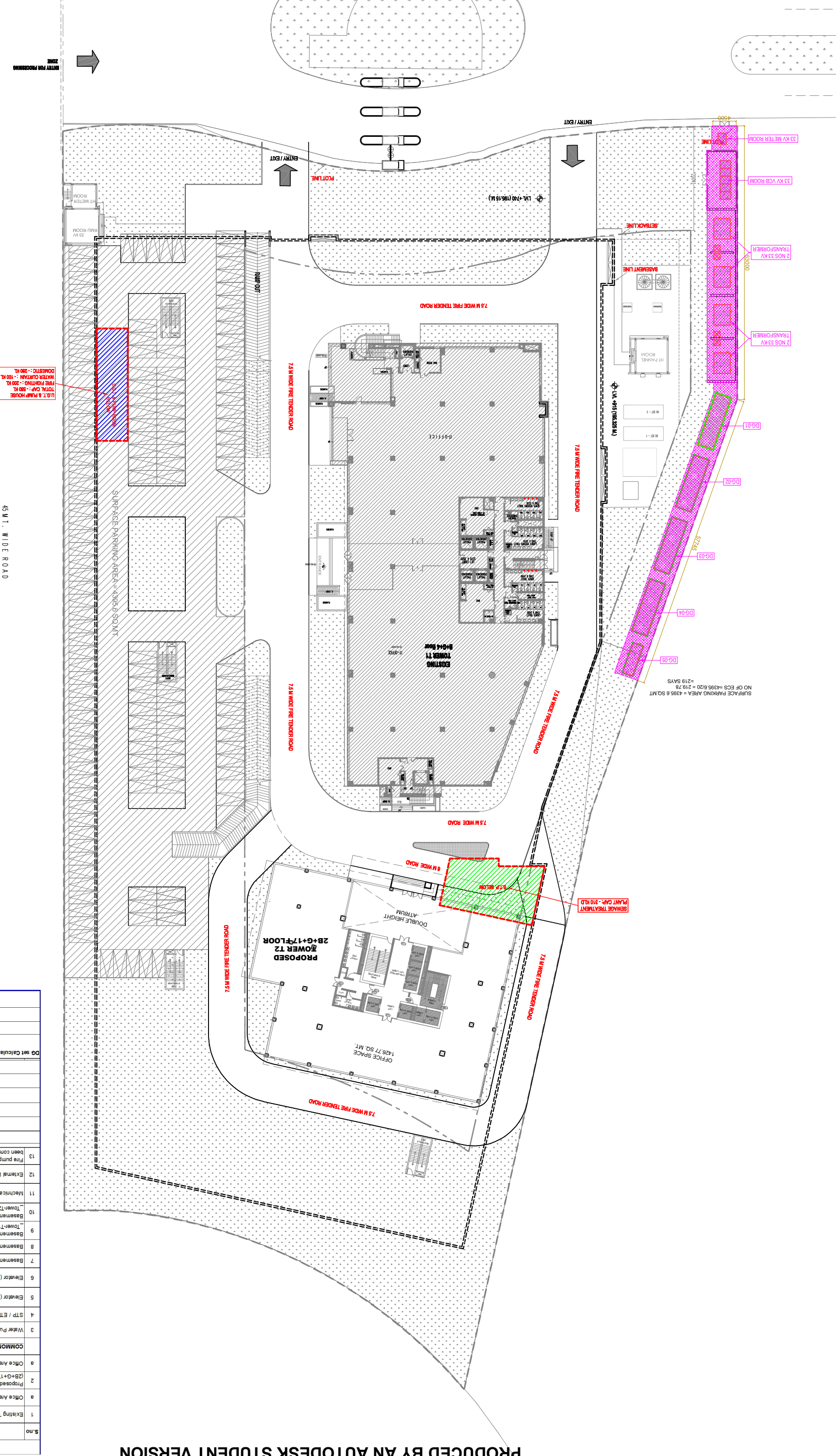
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LAYOUT PLAN
title
sub title
ELECTRICAL SETTING-OUT PLAN

PROPOSED IT-1A, IT-SEZ, ON PLOT NO. 12-6, GREATER NOIDA
project



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