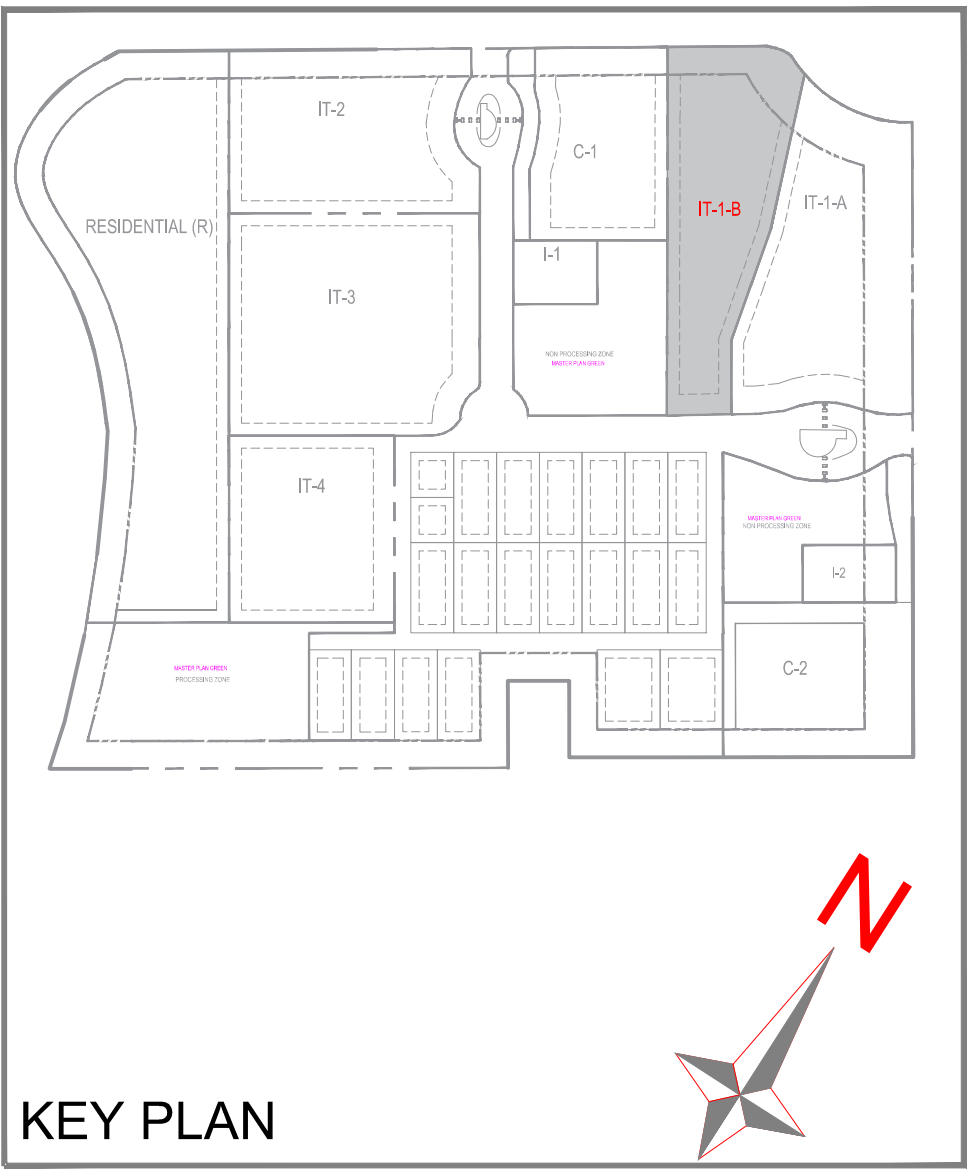
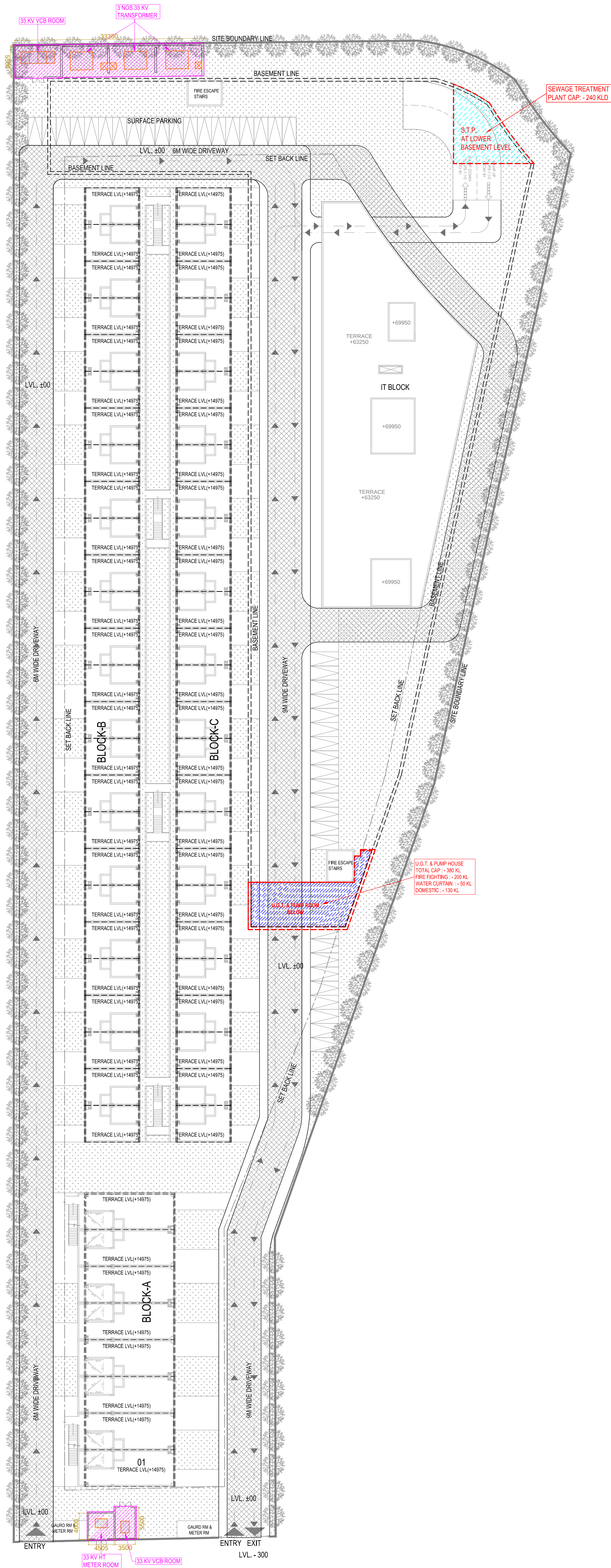




ELECTRICAL LOAD CALCULATION									
S.no	Description	No. of unit	Load per Unit	Total Load					
1	High Rise								
a	Office Area	17198 sqm	@ 150.0 W/sqm	=	2580	KW			
2	Low Rise								
a	Office Area (1-8)	3526 sqm	@ 150.0 W/sqm	=	529	KW			
b	Office Area (9-60)	14396 sqm	@ 150.0 W/sqm	=	2159	KW			
COMMON SERVICES									
3	Water Pump/ Tube Well/ Water Treatment/ Softening Plant			=	60	KW			
4	STP / ETP			=	60	KW			
5	Elevator (High rise)	5 nos	@ 8 KW	=	40	KW			
6	Elevator (Low rise)	60 nos	@ 4 KW	=	240	KW			
7	Stilt lights	2084 sqm	@ 1.0 W/sqm	=	2	KW			
8	Basement	13003 sqm	@ 1.0 W/sqm	=	13	KW			
9	Basement Ventillation	143 KW	@ 30 %	=	43	KW			
10	External Lighting / Sinage	1 nos	@ 20 KW	=	20	KW			
11	Fire pumps (only jockey pumps have been considered)	2 set	@ 15 KW	=	30	KW			
				Total Load =	5776	KW			
				By taking Diversity factor	75 % =>	4332	KW		
				By taking Power factor	0.90 =>	4810	KVA		
Total Electrical Load = 4810 KVA									
				Transformer Loading	80 % =>	6013	KVA		
Recommended Transformers = 3 nos 2000 KVA.									
DG set Calculation									
				By taking Power factor	0.80 =>	5415	KVA		
				Therefor, Total Essential Electrical Load		5415	KVA		
				DG Loading	85 % =>	6371	KVA		
Recommended DG sets - 3 nos 2000 KVA + 1 nos 500 KVA									

project
PROPOSED IT-1B, IT-SEZ, ON PLOT NO. TZ-6, GREATER NOIDA

title
LAYOUT PLAN

subtitle
ELECTRICAL SETTING-OUT PLAN

drawing released for
☒ SUBMISSION
☐ APPROVAL
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☐ CONSTRUCTION

drg. no.
IT-1B / 23B01 / ES-05

scale
1 : 375

date
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