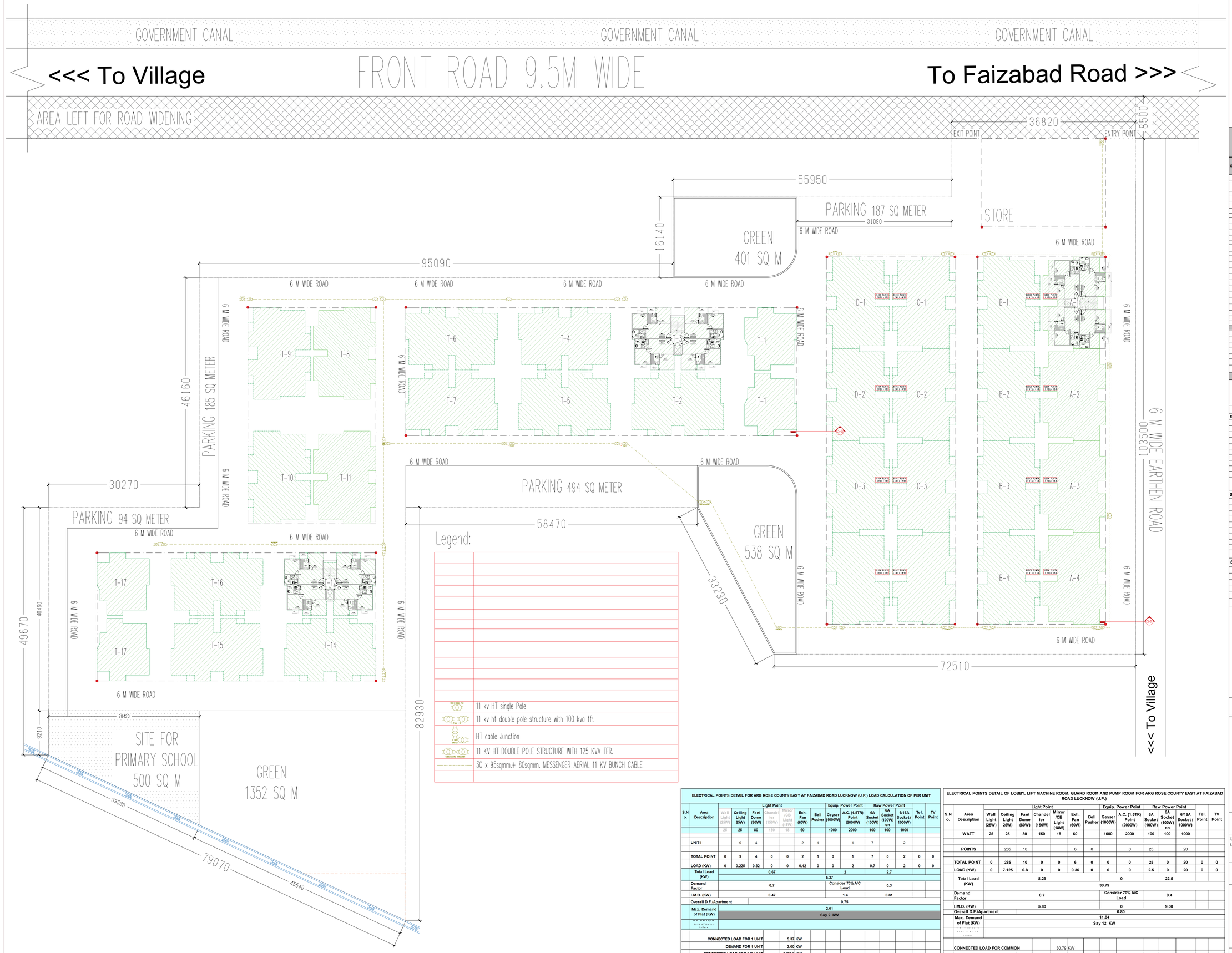

ELECTRICAL POINTS DETAIL FOR ARG ROSE COUNTY EAST AT FAIZABAD ROAD LUCKNOW (U.P.) LOAD CALCULATION OF PER UNIT

S.No.	Area Description	Light Point: Wall Light (25W)	Ceiling Light 25W)	Fan/ Dome (80W)	Chandelier (150W)	Mirror /CB Light (18W)	Exh. Fan (60W)	Bell Pusher	Equip. Power Point: Geyser (1000W)	A.C. (1.5TR) Point (2000W)	Raw Power Point: 6A Socket (100W)	6A Socket (100W) on	6/16A Socket (1000W)	Tel. Point	TV Point
		25	25	80	150	18	60		1000	2000	100	100	1000		
	UNIT-4		9	4			2	1		1	7		2		
	TOTAL POINT	0	9	4	0	0	2	1	0	1	7	0	2	0	0
	LOAD (KW)	0	0.225	0.32	0	0	0.12	0	0	2	0.7	0	2	0	0
	Total Load (KW)	0.67							2		2.7				
		5.37													
	Demand Factor	0.7							Consider 70% A/C Load		0.3				
	I.M.D. (KW)	0.47							1.4		0.81				
	Overall D.F./Apartment	0.75													
	Max. Demand of Flat (KW)	2.01													
		Say 2 KW													
	CONNECTED LOAD FOR 1 UNIT					5.37	KW								
	DEMAND FOR 1 UNIT					2.00	KW								
	CONNECTED LOAD FOR 640 UNIT					3433.6	KW								
	DEMAND FOR 640 UNIT					1280	KW								

ELECTRICAL POINTS DETAIL OF LOBBY, LIFT MACHINE ROOM, GUARD ROOM AND PUMP ROOM FOR ARG ROSE COUNTY EAST AT FAIZABAD ROAD LUCKNOW (U.P.)

S.No.	Area Description	Light Point: Wall Light (25W)	Ceiling Light 25W)	Fan/ Dome (80W)	Chandelier (150W)	Mirror /CB Light (18W)	Exh. Fan (60W)	Bell Pusher	Equip. Power Point: Geyser (1000W)	A.C. (1.5TR) Point (2000W)	Raw Power Point: 6A Socket (100W)	6A Socket (100W) on	6/16A Socket (1000W)	Tel. Point	TV Point
	WATT	25	25	80	150	18	60		1000	2000	100	100	1000		
	POINTS		285	10			6	0		0	25		20		
	TOTAL POINT	0	285	10	0	0	6	0	0	0	25	0	20	0	0
	LOAD (KW)	0	7.125	0.8	0	0	0.36	0	0	0	2.5	0	20	0	0
	Total Load (KW)	8.29							0		22.5				
		30.79													
	Demand Factor	0.7							Consider 70% A/C Load		0.4				
	I.M.D. (KW)	5.80							0		9.00				
	Overall D.F./Apartment	0.80													
	Max. Demand of Flat (KW)	11.84													
		Say 12 KW													
	CONNECTED LOAD FOR COMMON					30.79	KW								
	DEMAND LOAD FOR COMMON					11.84	KW								

PROPOSED APARTMENTS ROSE COUNTY (EAST)

AN AFFORDABLE HOUSING VENTURE BY ARG INFRASTRUCTURE PVT LTD ON KHASRA NO.695, 697,698,700,701,711, 712,713,714,715,722,723

PROJECT : ARG ROSE COUNTY EAST FAIZABAD ROAD LUCKNOW (U.P.)

Over AllElectrical Load Calculation & Transformer Selection of 640 UNITS & COMMON SERVICES

S.No.	Description	Qty.	UNIT	ACTUAL LOAD: Connected Load (KW)	Demand Factor	Demand Load (KW)	REMARKS
A.	COMMON SERVICES						
1	Lobby, Lift Machine Room, Guard Room and Pump Room			30.79	0.42	12.93	
	TOTAL A			30.8		12.9	
B	BLOCK- APARTMENT'S DEMAND LOAD 640 UNITS						
				3436.8	0.40	1374.72	
	Sub Total (B)		0.0	3436.8		1374.7	
C	COMMON AREA LOADS						
1	Lifts-032 Nos. @ 4 KW/Lift			128.0	0.9	115.2	
2	Common Area Lighting			5.0	0.9	4.5	
3	Fire Fighting Load			18.7		11.0	
4	STP			20.0	0.7	14.0	
5	Plumbing Load			18.7	0.5	9.3	
6	BORE WELL			7.5	0.5	3.7	
7	Ventilation Load			0.0	0.8	0.0	
8	External Lighting			5.0	0.7	3.5	
	Sub Total (F)			202.8		161.3	
	Grand Total (A+B+C)			3670.4		1548.9	

Selection of Transformer		
Total Demand Load	1548.9	KW
Overall Diversity 80%		
Total Maximum Demand Load After OD	1239.1	KW
Load in KVA @ 0.85 PF	1457.8	KVA
TRANSFORMER EFFICIENCY 98%	1487.5	
Considering Loading of Transformer @85%	1750.1	KVA
SAY 1750KVA		

Suggested Transformer Size = 16 No. 11/0.433 KV; 100 KVA + 1 NO. 160KVA

Points Detail of ARG ROSE COUNTY EAST PROJECT Lucknow (U.P.)

Total Units - 640 Nos. (PER UNIT 34.90 sq m)

S. No.	Particulars	Units	Qty. of 01 Unit	Qty. of 640 Units
1	Light Points	Nos.	9	5760
2	Fan Points	Nos.	4	2560
3	Exhaust Fan Points	Nos.	2	1280
4	Light Plug Points	Nos.	7	4480
5	Call Bell Points	Nos.	1	640
6	2 way Light Points	Nos.	0	0
7	Power Points	Nos.	2	1280
8	AC Points	Nos.	1	640

Total Points Details of Lobby, Lift Machine Room, Guard Room and Pump Room (COMMON AREAS)

S. No.	Particulars	Units		Total Qty.
1	Light Points	Nos.		225
2	Fan Points	Nos.		10
3	Exhaust Fan Points	Nos.		6
4	Light Plug Points	Nos.		15
5	Power Points	Nos.		10
6	AC Points	Nos.		0
7	Street Lights	Nos.		60

Details of Services (COMMON SERVICES)

S.No.	Particulars	Units		Qty.
1	5-stopage lift	Nos.		32
2	Borewell / Sumpump	Nos.		2
3	Domestic Water Pump	Nos.		2 (12.5HP)
4	Fire Pump	Nos.		2 (12.5HP)
5	Fire Pump	Nos.		1 (25HP)
6	Softner / RO or any other pump	Nos.		2HP

(AUTHORIZED SIGNATORY)
ARG INFRASTRUCTURE
Co. Off.: SAMIAH HOUSE (BASEMENT), A-35, Sector- 63 Noida,
TELE FAX: 0120-6783699; PH- 0120-6783600-10

ARCHITECT

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CA/2014-63798

SUBMISSION DRAWING

SITE LEVEL ELECTRICAL SUPPLY PLAN

SCALE 1:500

NORTH

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SHEET