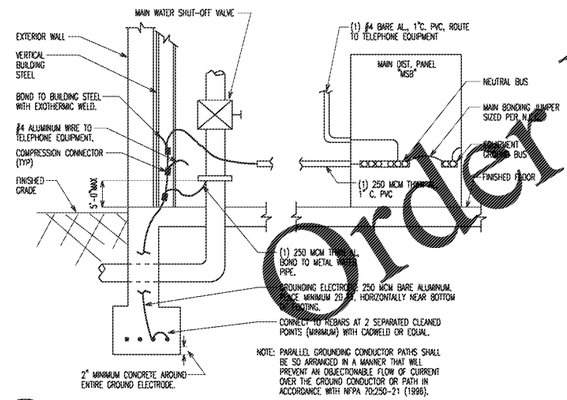
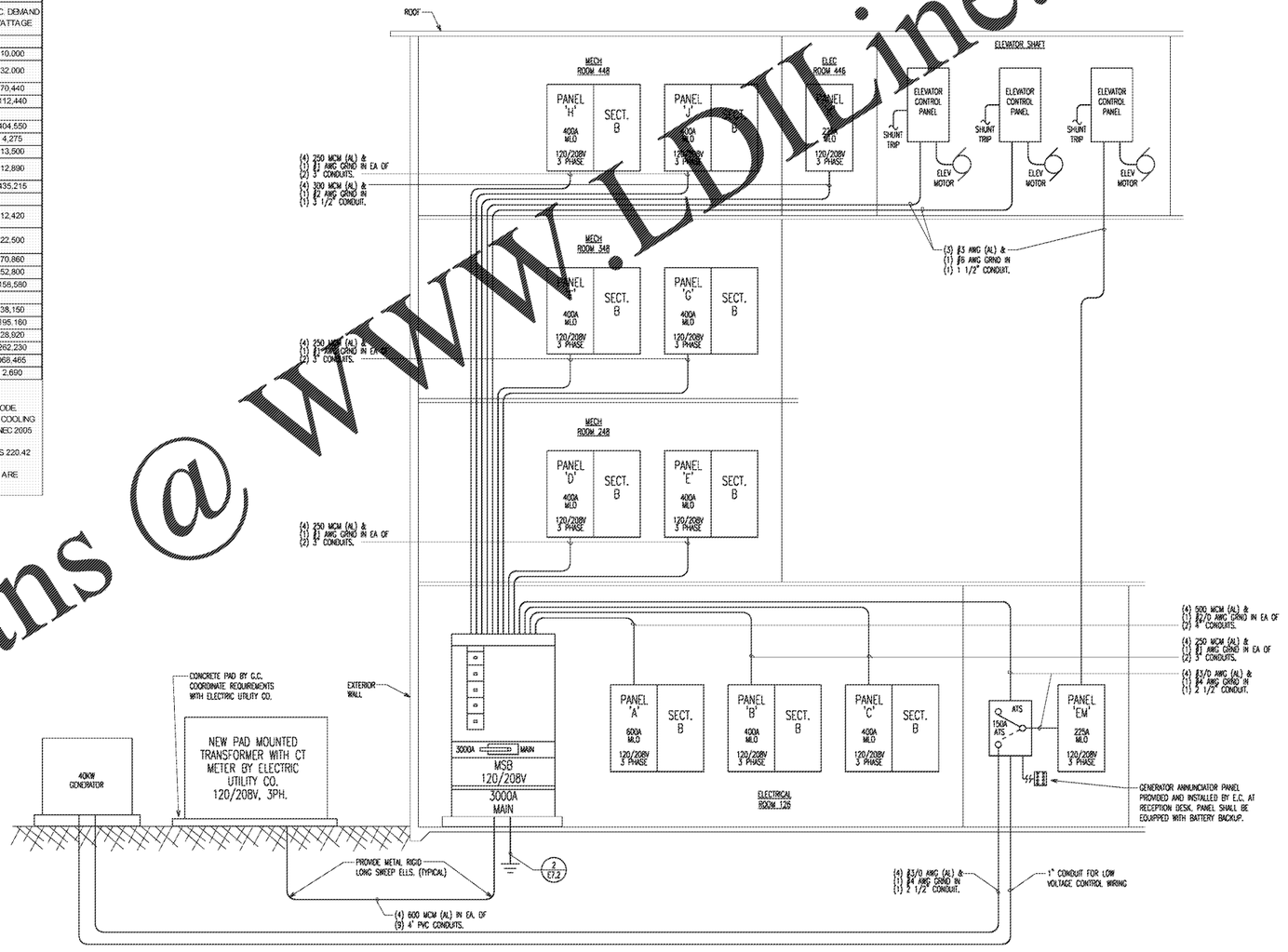
HOLIDAY INN - CLARKSVILLE, TN			
ELECTRICAL SERVICE LOAD SUMMARY			
LOAD DESCRIPTION	ACTUAL CONNECTED LOAD (VA)	N.E.C. DEMAND FACTOR (DIVERSITY)	N.E.C. DEMAND WATTAGE
GUESTROOM AREAS			
GUESTROOM LIGHTING & RECEPTACLES	334,800	FIRST 20KVA @50%	10,000
(LIGHTING AND RECEPT. DEMAND NEC ART. 220.42)		20KVA TO 100 KVA @ 40%	32,000
		REMAINDER @ 30%	70,440
	334,800	TOTAL VA	112,440
GUESTROOM FLOORS			
HVAC-PTAC UNITS	404,550	100% (NEC ART. 220.51)	404,550
LTS-CORRIDORS 2ND & 3RD & 4TH FL	3,420	125%	4,275
VENDING & LAUNDRY-NEC ART. 220.54	18,000	75%	13,500
RECEPTACLES	15,780	FIRST 10KVA @100%, REMAINING @50%	12,890
	441,750	TOTAL VA	435,215
FIRST FLOOR COMMON AREAS			
RECEPTACLES	14,840	FIRST 10KVA @100%, REMAINING @50%	12,420
LAUNDRY	22,500	100%	22,500
OTHER EQUIPMENT-NEC ART. 220.53	94,480	75%	70,860
ELEVATOR	52,800	100%	52,800
	184,620	TOTAL VA	158,580
FIRST FLOOR & MUAU			
LTS-FIRST FLOOR	30,520	125%	38,150
HVAC-FIRST FLOOR	195,160	100%	195,160
MAKE UP AIR UNITS	28,920	100%	28,920
	254,600	TOTAL VA	262,230
	1,215,770	**TOTAL LOAD (VA)**	968,465
		TOTAL AMPS	2,690

NOTES:
*THE LOAD SUMMARY WAS CALCULATED USING THE FOLLOWING CONSIDERATIONS:
1-) THE LARGEST HVAC LOAD WILL OCCUR DURING OPERATION OF THE BUILDING IN HEATING MODE. GIVEN THAT IT IS VERY UNLIKELY THAT ELECTRIC HEAT WILL BE RUN SIMULTANEAOUSLY WITH COOLING CONDENSING UNITS, ONLY THE HEATING LOADS ARE CONSIDERED FOR THIS LOAD SUMMARY. INEC 2005 ARTICLE 220.60.
2-) THE DEMAND FACTOR ALLOWED FOR HOTELS IS AS SHOWN ABOVE PER NEC 2005 ARTICLES 220.42 TABLE 220.42.
3-) ALL CONTINUOUS LOADS ARE INITIALLY TAKEN AT 125% AND THEN THE DEMAND FACTORS ARE APPLIED.



2 Grounding Electrode Diagram
No Scale



1 Electrical Riser Diagram
No Scale

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PROPOSED HOLIDAY INN L19383
215 CRACKER BARREL DR., CLARKSVILLE, TN
MONTGOMERY COUNTY, TENNESSEE

PERMIT NO: ——

GE#18002

No.	Description	Date

SHEET
E702
ELECTRICAL RISER DIAGRAM

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