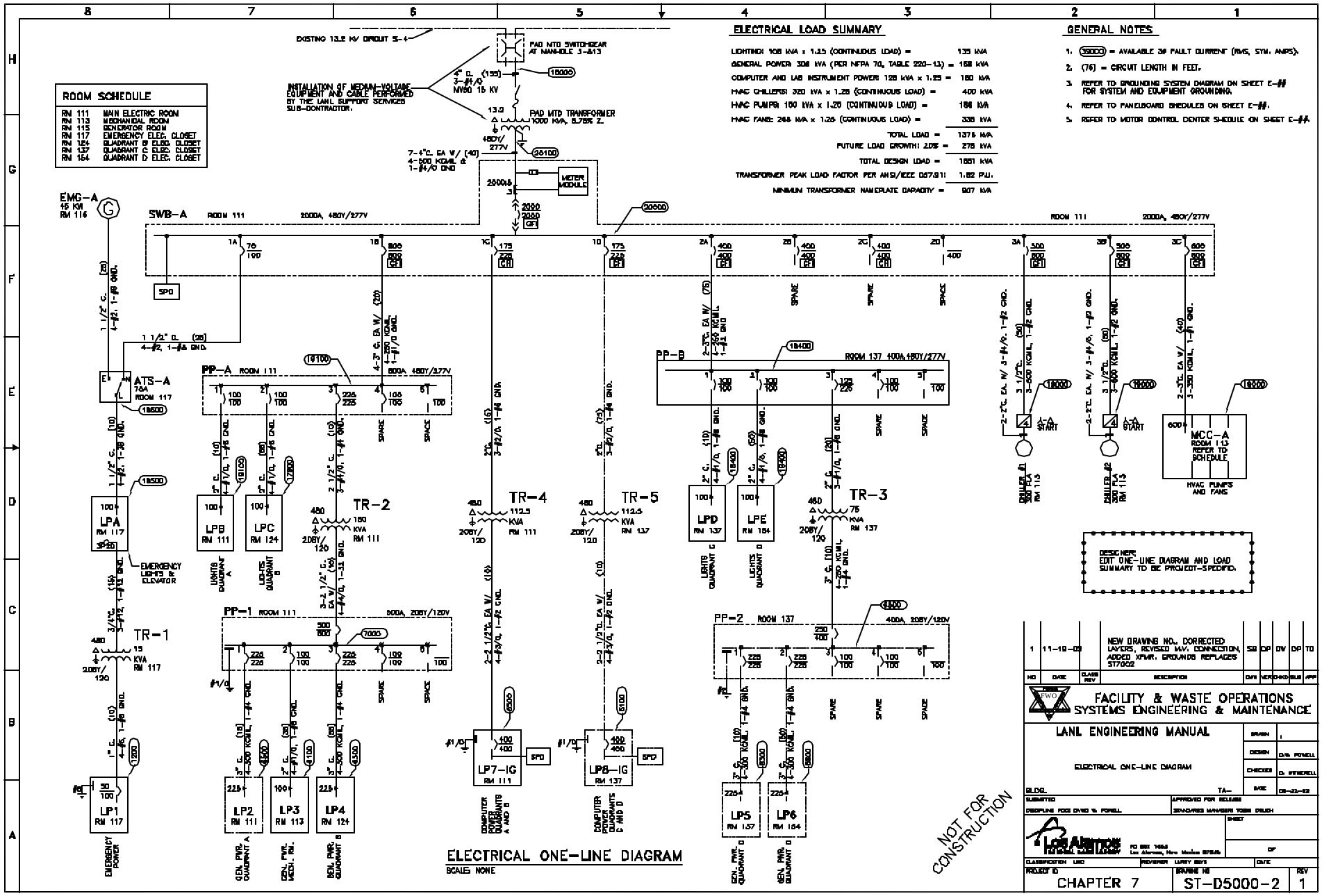

ELECTRICAL LOAD SUMMARY

LIGHTING: 108 kVA x 1.25 (CONTINUOUS LOAD) =	135 kVA
GENERAL POWER: 308 kVA (PER NFPA 70, TABLE 220-13) =	158 kVA
COMPUTER AND LAB INSTRUMENT POWER: 128 kVA x 1.25 =	160 kVA
HVAC CHILLERS: 320 kVA x 1.25 (CONTINUOUS LOAD) =	400 kVA
HVAC PUMPS: 150 kVA x 1.25 (CONTINUOUS LOAD) =	188 kVA
HVAC FANS: 268 kVA x 1.25 (CONTINUOUS LOAD) =	335 kVA
TOTAL LOAD =	1375 kVA
FUTURE LOAD GROWTH: 20% =	275 kVA
TOTAL DESIGN LOAD =	1651 kVA
TRANSFORMER PEAK LOAD FACTOR PER ANSI/IEEE C57.91:	1.82 P.U.
MINIMUM TRANSFORMER NAMEPLATE CAPACITY =	907 kVA

GENERAL NOTES

1. (35000) = AVAILABLE 3Ø FAULT CURRENT (RMS, SYM. AMPS).
2. (76) = CIRCUIT LENGTH IN FEET.
3. REFER TO GROUNDING SYSTEM DIAGRAM ON SHEET E-##. FOR SYSTEM AND EQUIPMENT GROUNDING.
4. REFER TO PANELBOARD SHEDULES ON SHEET E-##.
5. REFER TO MOTOR CONTROL CENTER SCHEDULE ON SHEET E-##.