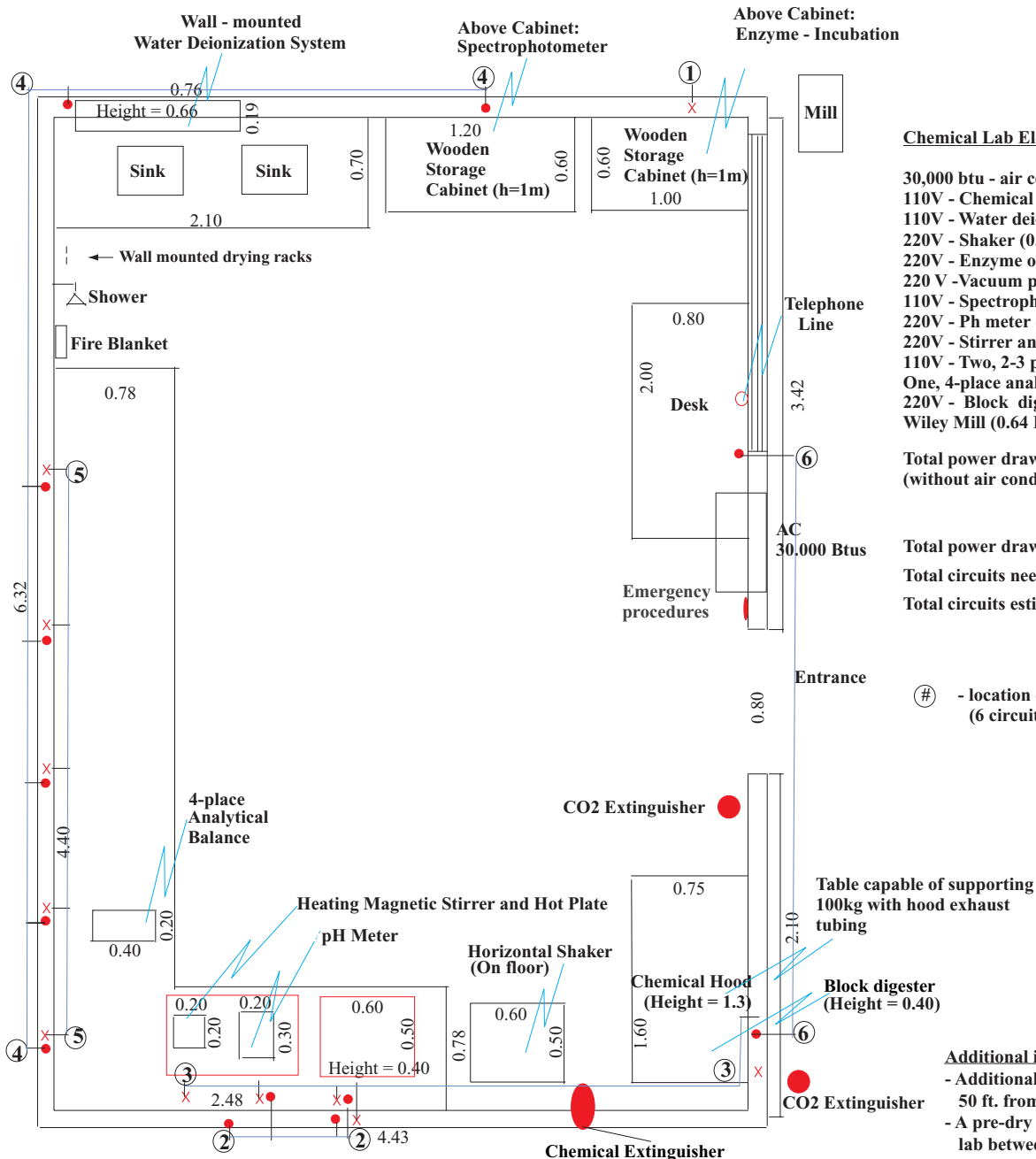


LBA Santarém Regional Office Wet Chemistry Lab



Chemical Lab Electrical

30,000 btu - air condition (3 KVA)
 110V - Chemical Hood (0.15 KVA)
 110V - Water deionization system (0.40 KVA)
 220V - Shaker (0.018 KVA)
 220V - Enzyme oven (1.3 KVA)
 220 V - Vacuum pump (0.35 KVA)
 110V - Spectrophotometer (0.092 KVA)
 220V - Ph meter (0.009 KVA)
 220V - Stirrer and hot plate (0.036 KVA)
 110V - Two, 2-3 place balances (0.0168 KVA)
 One, 4-place analytical balance (0.0132 KVA)
 220V - Block digester (1.9 KVA)
 Wiley Mill (0.64 KVA)

Total power draw needed
 (without air conditioning): 5.5 KVA

Total power draw estimated: 6.0 KVA

Total circuits needed: 6

Total circuits estimated: 3

(#) - location of circuits
 (6 circuits total)

× 220V Brazilian style outlets (NBr 2p + T)
 ● 110V outlets (US style outlets - NEMA)
 All outlets will be at a height of 1.1 meters except for those under the cabinets which will be at 0.5 meters.

Additional items outside of lab:

- Additional CO2 extinguisher located 50 ft. from the door of the lab.
- A pre-dry sauna is located next to the lab between the lab and the scientist storage space.
- The Wiley Mill is located directly in front of the pre-dry sauna on a work table.

reviewed/revised March 2003