

## ELECTRICAL CALCULATIONS

<b>VA HONOLULU OPC - NORMAL POWER LOAD ESTIMATES</b>				
<b>LOAD DESCRIPTION</b>	<b>SQUARE-FT</b>	<b>VA PER SQ-FT</b>	<b>CONNECTED LOAD (VA)</b>	<b>AMPERES AT 480V, 3-PHASE</b>
INTERIOR LIGHTING	76000	1.2	91,200	
CONVENIENT RECEPTACLES	76000	2.5	190,000	
MEDICAL AND DENTAL EQUIPMENT			70,000	
PUBLIC ADDRESS, FIRE ALARM, SECURITY	76000	0.1	7,600	
EXTERIOR LIGHTING	100000	0.1	10,000	
UPS EQUIPMENT FOR TELECOMM SYSTEM	76000	1	76,000	
MISCELLANEOUS AND RADIOLOGY	76000	2	152,000	
HVAC LOAD	76000	12	912,000	
<b>TOTAL</b>			<b>1,508,800</b>	<b>1811</b>

<b>VA HONOLULU OPC - ESSENTIAL ELECTRICAL SYSTEMS LOAD ESTIMATES</b>				
<b>LOAD DESCRIPTION</b>	<b>SQUARE-FT</b>	<b>VA PER SQ-FT</b>	<b>CONNECTED LOAD (VA)</b>	<b>AMPERES AT 480V, 3-PHASE</b>
EMERGENCY AND EGRESS LIGHTING	76000	0.15	11,400	
MEDICAL AND DENTAL EQUIPMENT			20,000	
TELCOM & ELECTRICAL ROOMS COOLING			20,000	
HVAC CONTROL EQUIPMENT			5,000	
PUBLIC ADDRESS, FIRE ALARM, SECURITY			5,000	
RADIOLOGY CT			50,000	
UPS EQUIPMENT FOR TELECOMM SYSTEM			15,000	
MISCELLANEOUS			5,000	
<b>TOTAL</b>			<b>131,400</b>	<b>158</b>