



ELECTRICAL LOAD CALCULATIONS (TOTAL BALANCED)

CONTINUOUS LOADS	LOAD
GENERAL LIGHTING - 4,000 SF @ 3.5 VA/SF	14,000
120V VENTIL. LIGHTING - 20,000 SF @ 2.0 VA/SF	40,000
OUTSIDE SIGNAGE - 100 SF @ 1.00 VA EACH	100,000
Sub-TOTAL	154,000

NON-CONTINUOUS LOADS	LOAD
RECEPTACLE LOAD - 100% @ 1.5 VA EACH	15,000
Sub-TOTAL	169,000

HEAT LOAD	LOAD
HVAC SYSTEM	80,000
WATER HEATER	20,000
Sub-TOTAL	100,000

DETAILS	LOAD
CONTINUOUS LOADS @ 80%	123,200
NON-CONTINUOUS LOADS @ 75% FOR SET BACKS	131,250
NON-CONTINUOUS LOADS @ 100% FOR SET BACKS	150,000
HEAT LOADS @ 100%	100,000
TOTAL TOTAL	504,450

120/240 V @ 300 V = 504 AMP	576 AMP
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ELECTRICAL LOAD CALCULATIONS (OVERHEAD)

CONTINUOUS LOADS	LOAD
GENERAL LIGHTING - 4,000 SF @ 3.5 VA/SF	14,000
120V VENTIL. LIGHTING - 20,000 SF @ 2.0 VA/SF	40,000
OUTSIDE SIGNAGE - 100 SF @ 1.00 VA EACH	100,000
Sub-TOTAL	154,000

NON-CONTINUOUS LOADS	LOAD
RECEPTACLE LOAD - 100% @ 1.5 VA EACH	15,000
Sub-TOTAL	169,000

HEAT LOAD	LOAD
HVAC SYSTEM	80,000
WATER HEATER	20,000
Sub-TOTAL	100,000

DETAILS	LOAD
CONTINUOUS LOADS @ 80%	123,200
NON-CONTINUOUS LOADS @ 75% FOR SET BACKS	131,250
NON-CONTINUOUS LOADS @ 100% FOR SET BACKS	150,000
HEAT LOADS @ 100%	100,000
TOTAL TOTAL	504,450

120/240 V @ 300 V = 504 AMP	576 AMP
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DOCTOR OFFICE ELECTRICAL PLAN

SCALE: N.T.S.

SHEET 001	JOB NAME: SAMPLE DRAWING	SHEET TITLE: DOCTOR OFFICE ELECTRICAL PLAN	DESIGNER: DT/PAUL BELY	DATE: 07/20/20
	JOB NUMBER: 1000		DRAWN BY: DA	DATE: 07/20/20
Daniel F. Ardito, P.E. ELECTRICIAN FLORIDA LICENSE NO. 124461 CSBP-161-4915			JOB NAME: 1000	

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