

PROJECT NAME	SAMPLE
DWELLING UNIT	DP1

NEUTRAL LOAD	
TOTAL SQ FOOTAGE (1,500 SQ FT X 2 VA) =	3,000 VA
APPLIANCE CIRCUITS (2 X 1,500 VA) =	3,000 VA
LAUNDRY CIRCUITS (1 X 1,500 VA) =	1,500 VA
TOTAL CONNECTED NEUTRAL LOAD	7,500 VA
FIRST 3,000 VA @ 100% (3,000 VA X 1.00) =	3,000 VA
3,000-120,000 VA @ 35% (4,500 VA X 0.35) =	1,575 VA
OVER 120,000 VA @ 25% (0 VA X 0.25) =	0 VA
SUBTOTAL	4,575 VA
RANGE DEMAND	
TABLE 120.55 COLUMN C	
70% OF TABLE 120.55 (8,000 VA X 0.70) =	5,600 VA
DRYER DEMAND	
TABLE 120.54	
70% OF TABLE 120.54 (5,000 VA 1.00 VA X 0.70) =	3,500 VA
UNBALANCED MISC LOADS	600 VA
NEUTRAL LOAD VA	14,275 VA
NEUTRAL LOAD (14,275 VA ÷ 240 V) =	59 A
FURTHER DEMAND FACTOR - NEC 120.61(B)(2)	
FIRST 200 A @ 100% (59 A X 1.00) =	59 A
REMAINDER @ 70% (0 A X 0.70) =	0 A
MINIMUM NEUTRAL CONDUCTOR AMPACITY	59 A

