

SINGLE FAMILY RESIDENCE SINGLE PHASE, 3 WIRE 110/220 V MOUNTING: RECESSED LOCATION:EXIST GARAGE										PANEL "A" EXIST										MAIN BUS: 200 A NEUTRAL: 200 A FLUSH MAIN: M.L.O. AIC: 22,000																											
AMPS	POLES	TOTAL VA	COND. SIZE	WIRE SIZE	REMARKS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
50	2	10,000	R	8	AHU-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	2	2,400	R	12	POOL PUMP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
30	2	4,500	R	10	WATER HTR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
50	2	1,500		6	EV CHARGER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	1,500		12	LAUNDRY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	1,500		12	SMALL APPLIANCES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	1,500		12	SMALL APPLIANCES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	.		12	FOYER LIGHTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	800		12	EXT OUTLETS (GFI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	800		12	TERRACE OUTLET (GFI)	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	.		12	KITCHEN LIGHTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
15	1	.		14	BEDROOM 4 LIGHTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	.		12	BEDROOM 4 OUTLET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	600		12	DISHWASHER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	600		12	REFRIGERATOR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
50	2	12,000		8	RANGE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
PANEL LOAD										1,816 SQ FT AT 3VA/SQ FT = 5,448 VA OTHER LOADS = 40,000 VA SUBTOTAL = 45,448 VA A/C LOAD AT 100% = 13,040 VA										FEEDER: SEE RISER FED FROM: SEE RISER																											

SINGLE FAMILY RESIDENCE SINGLE PHASE, 3 WIRE 110/220 V MOUNTING: SURFACE MOUNTED LOCATION:GARAGE										PANEL "B" NEW										MAIN BUS: 125A NEUTRAL: 125 A FLUSH MAIN: M.L.O. A/C: 10,000																											
AMPS	POLES	TOTAL V.A.	COND. SIZE	WIRE SIZE	REMARKS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	2	1500	R	12	AHU-3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
30	2	5,000	R	10	DRYER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	400		12	BATH GFI	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	1500		12	LAUNDRY	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	400		12	EXT GFI'S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	300		12	EXT LIGHTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	400		12	GAR DOOR OPENER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	.		12	GARAGE LIGHTS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	400		12	EXT GFI'S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
20	1	400		12	EXT GFI'S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
--	--	--		--	SPACE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
--	--	--		--	SPACE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
PANEL LOAD										1,069 SQ FT AT 3VA/SQ FT = 3,207 VA OTHER LOADS = 13,020 VA SUBTOTAL = 16,227 VA A/C LOAD AT 100% = 4,500 VA										FEEDER: SEE RISER FED FROM: SEE RISER																											
										△ AFCI BREAKER △ AFCI/GFCI COMBINATION BREAKER																																					

LOAD CALCULATION	PNL"A", EXIST	PNL"B", NEW
SQUARE FEET OF CONDITION SPACE	1,816	1,069
GENERAL LIGHTING AT 3 W.S.F	5,448	3,207
SMALL APPLIANCES CIRCUITS	2	
SMALL APPLIANCES LOAD	3,000	0
RANGE	12,000	
WATER HEATER	5,000	8,000
WASHING MACHINE		1,500
DRYER		5,000
KITCHEN HOOD	600	
POOL EQUIPMENT	2,400	
REFRIGERATOR	800	
DISHWASHER	800	
DISPOSAL	400	
EV CHARGER	7,500	
OTHER LOADS	1,000	2,800
LOAD PER PANEL (WITHOUT A/C LOAD)	38,948	20,507
TOTAL LOAD CONNECTED (NO A/C)	59,455	20,507
FIRST 10000 AT 100%	10,000	
REST AT 40%	19,782	
TOTAL A/C LOAD	13,040	4,512
TOTAL (VA)	47,334	
TOTAL AMPS (AT 240 V)	197	

PROPOSED SERVICE SIZE:	300 AMPS
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