

CRAIG TRIBAL ASSOCIATION 4-PLEX				
4-UNIT LOAD ANALYSIS				
PROJECT: CRAIG TRIBAL ASSOCIATION 4-PLEX			VOLTAGE: 240	
			PHASE: 1	
4-UNIT FEEDER CALCULATION PER NEC 220 PART III				
1. (4) UNITS LOAD (SEE TYPICAL)				
A. DEMAND GENERAL LIGHT, RECEPTACLE, SMALL APPLIANCE & LAUNDRY LOADS				
(4) GENERAL LIGHTING & RECEPTACLE LOAD			18,696	VA
(4) SMALL APPLIANCE & LAUNDRY CIRCUITS EACH AT 3,000VA			12,000	VA
SUBTOTAL			30,696	VA
ALLOWED DERATING FACTOR PER NEC TABLE 220.42 & 220.52				
UP TO 3,000 VA @ 100% =			3,000	VA
3,001 UP TO 120,000 VA @ 35% =			9,694	VA
NET GENERAL LIGHT, RECEPTACLES, SMALL APPLIANCE & LAUNDRY LOADS:			12,694	VA
				12,694 VA
B. NUMBER OF HOUSEHOLD ELECTRIC RANGE: 4				
TABLE 220.55, COLUMN C: DEMAND = 17,000 VA				17,000 VA
C. LAUNDRY LOADS				
4-ELECTRIC CLOTHES DRYERS EACH AT 5,000 VA			20,000	VA
TABLE 220.54, DEMAND FACTOR: 100%				20,000 VA
D. MOTOR LOADS				
RH-1 FAN/LIGHT, 0.65A, 120V, 4EA			312	VA
EF-1, 0.27A, 4EA			130	VA
VF-1, 52W, 120V, 4EA			208	VA
CU-1, HP-1, 9.5MCA, 240V, 1-PHASE, 4EA			9,120	VA
SUBTOTAL			9,770	VA
				9,770 VA
NET COMPUTED 4-PLEX UNIT LOADS				59,463 VA
DEMAND PER NEC 215.2(A)(1)				
CONTINUOUS LOAD (LIGHTING/SMALL APPLIANCES)				12,694 VA
25% OF CONTINUOUS LOAD				3,173 VA
NON-CONTINUOUS LOAD				46,770 VA
GRAND TOTAL				62,637 VA

PANEL 'A' (TYPICAL UNIT)														
MFR/MODEL: SQUARE 'D' TYPE NQ					VOLTS: 120/240V,1PH,3W					ENCLOSURE: NEMA 1				
TYPE: PANELBOARD					VOLT-AMPS					MTG: RECESSED				
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE	
	1	1	20	LTS-UNIT,EF-1	LTG	1,500		MISC	WASHER	20	1	2		
a	3	1	20	RECP-MASTER BEDROOM	RECP		900 2,500	MISC	DRYER	30	2	4		
a	5	1	20	RECP-BEDROOM 2	RECP	720 2500		MISC	^A	30	2	6		
a	7	1	20	RECP-BEDROOM 3	RECP		900 200	MISC	GAS RANGE	20	1	8		
c	9	1	20	RECP-KITCHEN	RECP	1500			SPARE	20	1	10		
c	11	1	20	RECP-KITCHEN	RECP		1,500 1,140	MOTR	CU-1,HP-1	20	2	12		
a	13	1	20	RECP-LIVING ROOM,DECK	RECP	1080 1140		MOTR	^A	20	2	14		
c	15	1	20	RECP-DINING,HALL,LAUNDRY,VF-1	RECP		1,032 1,200	MISC	REFRIGERATOR	15	1	16	b	
b	17	1	20	RECP-BATH 1,2	RECP	360 240		MOTR	RH-1	15	1	18	b	
19	1	15		GH-1	MOTR		117 100	MISC	SMOKE ALARMS	15	1	20	d	
b	21	1	20	RECP-STORAGE, EXTERIOR	RECP	540 800		MISC	DISHWASHER	20	1	22	b	
23	1	20		FREEZER (STORAGE)	MISC		1,500		SPACE	-	1	24		
25	1	-		SPACE					SPACE	-	1	26		
27	1	-		SPACE					SPACE	-	1	28		
29	1	-		SPACE					SPACE	-	1	30		
A.I.C. RATING: 22,000														
PANEL NOTES: a PROVIDE AFCI TYPE CIRCUIT BREAKER b PROVIDE GFCI TYPE CIRCUIT BREAKER c PROVIDE DUAL FUNCTION AFCIGFCI TYPE CIRCUIT BREAKER. d PROVIDE WITH RED HANDLE LOCKABLE IN THE 'ON' POSITION.								PANEL OPTIONS:						

SHEET NOTES:

1. FOR UPSTAIRS UNITS, PROVIDE PANEL WITH 10,000 AIC RATING.

PANEL 'H' (HOUSE)														
MFR/MODEL: SQUARE 'D' TYPE NQ					VOLTS: 120/240V,1PH,3W					ENCLOSURE: NEMA 1				
TYPE: PANELBOARD					VOLT-AMPS					MTG: SURFACE				
NOTE	CIRC	POLE	AMPS	SERVICE	TYPE	A	B	TYPE	SERVICE	AMPS	POLE	CIRC	NOTE	
1	1	20		LTG-EXTERIOR BUILDING-MTD.	LTG	900			RECP	RECP-CRAWSPACE 1	20	1	2	
3	1	20		LTG-EXTERIOR POLE-MTD.	LTG		264 900		RECP	RECP-CRAWSPACE 2	20	1	4	
5	1	20		LTG-CRAWLSPACE 1	LTG	180			RECP	RECP-EXTERIOR	20	1	6	
7	1	20		LTG-CRAWLSPACE 2	LTG								8	
9													10	
11													12	
13													14	
15													16	
17													18	
19	1	20		SPARE									20	
21	1	20		SPARE					SPARE	20	1	22		
23	1	20		SPARE					SPARE	20	1	24		
25	1	-		SPACE					SPACE	-	1	26		
27	1	-		SPACE					SPACE	-	1	28		
29	1	-		SPACE					SPACE	-	1	30		
A.I.C. RATING: 42,000														
PANEL NOTES:								PANEL OPTIONS:						

STAMP:

REVISIONS:

R

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Craig Tract 18 4-plex

TLINGIT-HAIDA REGIONAL HOUSING AUTHORITY

CRAIG, ALASKA

SHEET TITLE:  
PANEL SHCEDULES

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AUTOMATED PILOT DATE:

DRAWING DATE:  
May 21, 2018

JOB NO.  
L8030

SCALE:  
AS SHOWN

SHEET NUMBER

DESIGN DEVELOPMENT- NOT FOR CONSTRUCTION

E5.2