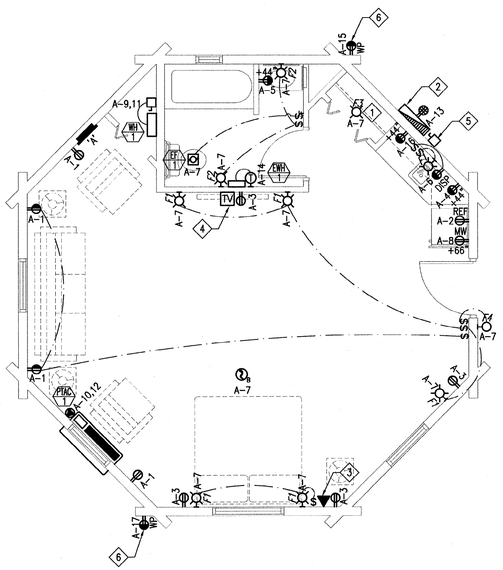
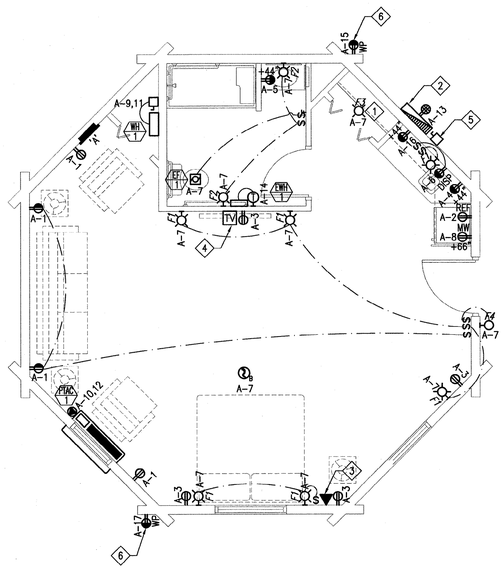


STANDARD UNIT ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"



ACCESSIBLE UNIT ELECTRICAL PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. MULIT-WIRE BRANCH CIRCUITS: ELECTRICAL CONTRACTOR TO COMPLY WITH THE NATIONAL ELECTRICAL CODE, ARTICLE 210.4, MULIT-WIRE BRANCH CIRCUITS. ELECTRICAL CONTRACTOR TO ALLOW FOR MULIT-WIRE BRANCH CIRCUIT WIRE AMPACITY ADJUSTMENT AS PER ARTICLE 310, TABLE 310.15(B)(2)(A) OF THE NATIONAL ELECTRICAL CODE.
2. ALL 120 VOLT, SINGLE PHASE, 15 AND 20 AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUNROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE, INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
3. PROVIDE AND INSTALL TAMPER-RESISTANT RECEPTACLES ON ALL 120 VOLT RECEPTACLES IN ALL AREAS SPECIFIED IN 210.52 OF THE NATIONAL ELECTRICAL CODE AS REQUIRED UNDER 406.11 OF THE NATIONAL ELECTRICAL CODE.

KEYED NOTES

1. PROVIDE FIXTURE WITH FACTORY INSTALLED INTEGRAL MOTION SENSOR.
2. 18"Wx18"Hx6"D TELEPHONE/CATV TERMINAL CABINET IN A LOCKABLE NEMA 3R ENCLOSURE. PROVIDE AND INSTALL A QUAD RECEPTACLE IN CABINET INTERIOR.
3. ¾" CONDUIT WITH (1)-CAT6 CABLE. PROVIDE AND INSTALL CONDUIT AND CABLE RUN TO TELEPHONE/CATV TERMINAL CABINET.
4. ¾" CONDUIT WITH (1)-RG60U CABLE PROVIDE AND INSTALL CONDUIT AND CABLE RUN TO TELEPHONE/CATV TERMINAL CABINET.
5. UNIT DISCONNECT SWITCH, SEE SITE PLAN AND ONE LINE DIAGRAM.
6. WEATHERPROOF GFCI DUPLEX RECEPTACLE MOUNTED IN EAVE NEAR DOWNSPOUT.

LOAD CENTER SCHEDULE

PANEL: A
VOLTAGE: 240/120
PHASE: 1 WIRE: 3
MOUNTING: FLUSH
ENCLOSURE: NEMA 1
REMARKS:

BUS AMPS: 100
MAIN DEVICE: MLO
MINIMUM EQUIPMENT RATING: 10,000 AMPS RMS

USE CODE
R = RECEPTACLE LOAD
L = LIGHTING LOAD
E = EQUIPMENT LOAD
K = KITCHEN EQUIPMENTLOAD
M = MOTOR LOAD

BREAKER No.	BREAKER AMPS	BREAKER POLE	KEYED NOTE	CIRCUIT NAME	CKT. LOAD WIRE	CKT. LOAD GRD	CKT. LOAD USE	CKT. LOAD WATTS	LOAD/PHASE (VA) φA	LOAD/PHASE (VA) φB	CKT. LOAD WATTS	CKT. LOAD USE	FEEDER GRD	FEEDER WIRE	CIRCUIT NAME	KEYED NOTE	BREAKER POLE	BREAKER AMPS	BREAKER No.
1	20	1	B	UNIT RCPTS	#12	#12	R	720	1,920		1,200	E	#12	#12	REFRIGERATOR	C	1	20	2
3	20	1	B	UNIT RCPTS	#12	#12	R	720		900	180	R	#12	#12	KITCHEN RCPT	C	1	20	4
5	20	1	C	BATH RCPT	#12	#12	R	180	1,044		864	M	#12	#12	DISPOSAL	C	1	20	6
7	20	1	B	UNIT LTG	#12	#12	L/M	680		1,880	1,200	E	#12	#12	MICROWAVE	C	1	20	8
9	50	2		WATER HEATER	#8	#10	E	4,500	7,000		2,500	E	#10	#10	PTAC		2	30	10
11	–	–		–	#8	–	E	4,500		7,000	2,500	E	–	#10	–		–	–	12
13	20	1		COMM CAB RCPT	#12	#12	R	360	1,860		1,500	E	#12	#12	WALL HEATER		1	20	14
15	20	1	C	EXTERIOR RCPT @ EAVE	#12	#12	R	180		360	180	R	#12	#12	KITCHEN RCPT	C	1	20	16
17	20	1	C	EXTERIOR RCPT @ EAVE	#12	#12	R	180	180						SPARE		1	20	18
19	20	1		SPARE											SPARE		1	20	20
21	20	1		SPARE											SPARE		1	20	22
23	20	1		SPARE											SPARE		1	20	24

	φA	φB
RECEPTACLE LOAD w/o NEC 220.44 DEMAND (VA)	1,440	1,260
LIGHTING LOAD (VA)		500
125% LIGHTING CONTINUOUS LOAD PER NEC 210.20(A) (VA)		125
EQUIPMENT LOAD (VA)	9,700	8,200
KITCHEN DEMAND = 0 UNITS @ 100% AS PER NEC 220.56 (VA)		
MOTOR LOAD	864	680
TOTAL LOAD PER PHASE (VA):	12,004	10,765
TOTAL LOAD PER PHASE (AMPS):	29	26
TOTAL RECEPTACLE LOAD:	2,700	
DEMAND LOAD ADJUSTMENT FOR RECEPTACLES AS PER NEC 220.44 (VA)	0	
TOTAL RECEPTACLE DEMAND LOAD:	2,700	
DEMAND LOAD w/o 25% LARGEST MOTOR LOAD (VA):	22,769	
25% LARGEST MOTOR (VA)	261	
TOTAL DEMAND LOAD (VA):	23,030	
TOTAL DEMAND LOAD (AMPS):	96	

KEYED NOTES:
A. LOCK-ON BREAKER
B. PROVIDE ARC FAULT (AFCI) PROTECTION.
C. PROVIDE GFCI PROTECTION.
D. SHUNT TRIP BREAKER.

GENERAL NOTES:
1. ALL INSULATION ON CONDUCTORS TO BE THHN UNLESS NOTED OTHERWISE. INSULATION ON ALL UNDERGROUND CONDUCTORS SHALL BE THHW.
2. LOAD DEMANDS CALCULATED AS PER SECTIONS 210 & 220 OF THE NATIONAL ELECTRICAL CODE.
3. PANEL COVER SHALL BE FIELD MARKED FOR FLASH PROTECTION WITH A PERMANENT LABEL AS REQUIRED BY THE NATIONAL ELECTRICAL CODE SECTION 110. LABEL SHALL READ AS FOLLOWS: "DANGER: POTENTIAL ARC FLASH HAZARD".
4. CIRCUIT IDENTIFICATION SHALL BE AS PER SECTION 408.4 OF THE NATIONAL ELECTRICAL CODE.

PLANCHECK BY JAS
May 02, 2012
(A,S,P,M,E,F/P,E/N)

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ARIZONA U.S.A.
EXPIRES: 12/31/13

DESIGNED BY: KJH
CHECKED BY: SRG
ROYAL ENGINEERING PROJECT NO.: J11245.00
DATE PLOTTED: 01.05.2012

REVISIONS	DATE	JOB NO.
PLAN REVIEW 4/6/2012	12-8-2011	J-228

GUEST HOGANS
For N.A.T.I.V.E.
KAYENTA, ARIZONA 86033

ELECTRICAL PLANS AND SCHEDULES

E1.1