

DIAGRAM NOTES

1. ALL WORK SHOWN IS EXISTING UNLESS OTHERWISE NOTED.
2. BRING ANY DISCOVERED CODE VIOLATIONS TO THE OWNER'S ATTENTION.
3. ALL WIRING SHOWN IS SIZED FOR COPPER CONDUCTORS, UON

1 SINGLE LINE DIAGRAM
 NTS

EXISTING														
MOUNTING SURFACE PANEL B 10,000 A.I.C. SYM														
240/120 VOLTS 1 PHASE 3 WIRE			MAIN						MLO			BUS 200 A		
VOLT AMPS			DESCRIPTION									VOLT AMPS		
ØA	ØB	ØC	R	L	P	B	C	C	B	P	R	ØA	ØB	ØC
ØA	ØB	ØC	E	K	O	1	A	R	1	O	E	ØA	ØB	ØC
ØA	ØB	ØC	C	R	R	R	2	R	2	R	G	ØA	ØB	ØC
360			2	1	15	1	A	2	30	2				
	750			1	20	3	B	4	-	-			2000	
1000				1	20	5	A	6	30	2				
	720		4	1	20	7	B	8	-	-			2000	
750				1	20	9	A	10	30	2				
	750			1	20	11	B	12	-	-			2000	
720			4	1	20	13	A	14	30	2				
				1	20	15	B	16	-	-			2000	
						17	A	18						
						19	B	20						
						21	A	22						
						23	B	24						
2830	2220		VA/LINE									8000	8000	
ØA=	10830		ØB= 10220									ØC=		
CONTINUOUS LOADS			NON-CONTINUOUS LOADS											
UP TO 10 kVA 1800			UP TO 10 kVA 1800											
RECEPTACLES			RECEPTACLES											
REMAINDER			REMAINDER											
TOTAL DESIGN kVA= 21			TOTAL DESIGN AMPS= 88											

EXISTING														
MOUNTING SURFACE PANEL A 10,000 A.I.C. SYM														
240/120 VOLTS 1 PHASE 3 WIRE			MAIN						200 A			BUS 200 A		
VOLT AMPS			DESCRIPTION									VOLT AMPS		
ØA	ØB	ØC	R	L	P	B	C	C	B	P	R	ØA	ØB	ØC
ØA	ØB	ØC	E	K	O	1	A	R	1	O	E	ØA	ØB	ØC
ØA	ØB	ØC	C	R	R	R	2	R	2	R	G	ØA	ØB	ØC
750				1	20	1	A	2	125	2			10830	
	750			1	20	3	B	4	-	-			10220	
750				1	20	5	A	6	20	1			750	
	750			1	20	7	B	8	20	1			750	
750				2	20	9	A	10	20	1			750	
	750			-	-	11	B	12	20	1			750	
750				1	20	13	A	14	30	1			750	
	750			1	20	15	B	16	-	1			750	
						17	A	18	40	2			3840	(1)
						19	B	20	-	-			3840	(1)
						21	A	22	40	2			3840	(1)
						23	B	24	-	-			3840	(1)
						25	A	26						
						27	B	28						
						29	A	30						
3000	3000		VA/LINE									20760	20150	
ØA=	23760		ØB= 23150									ØC=		
CONTINUOUS LOADS			NON-CONTINUOUS LOADS											
UP TO 10 kVA 1800			UP TO 10 kVA 1800											
RECEPTACLES			RECEPTACLES											
REMAINDER			REMAINDER											
TOTAL DESIGN kVA= 47			TOTAL DESIGN AMPS= 195											

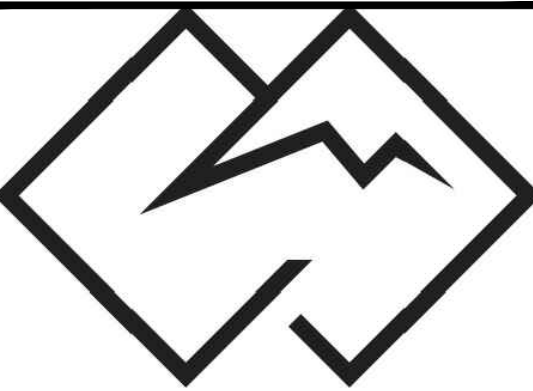
(1) PROVIDE NEW BREAKER AS SHOWN.

2 PANEL SCHEDULES
 NTS

GENERAL NOTES

1. ALL WORK SHOWN IS NEW, UNLESS NOTED OTHERWISE.
2. ALL WORK TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE, 2020 EDITION.
3. SEAL ALL CONDUIT PENETRATIONS OF FLOORS AND FIRE RATED ASSEMBLIES TO MAINTAIN FIRE RATING.
4. PROVIDE NEW TYPEWRITTEN DIRECTORIES REFLECTING WORK PERFORMED FOR ALL NEW PANELBOARDS IN THIS PROJECT.
5. PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBERS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISCELLANEOUS FITTINGS, ETC. FOR A COMPLETE AND OPERABLE SYSTEM (HOMERUN SHOWN). BRANCH CIRCUIT INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND N.E.C.
6. ALL NEUTRAL CONDUCTORS ON POWER BRANCH CIRCUITING ROUNDHOUSES TO BE #10 AWG UNLESS NOTED OTHERWISE.

	ABBREVIATIONS	NOTES
A, AMP	AMPERE	
AC	ABOVE COUNTER TOP	
AIC	AMPERE INTERRUPTING CAPACITY	
AFF	ABOVE FINISHED FLOOR	
AF	FRAME RATING IN AMPERES	
AS	SWITCH RATING IN AMPERES	
AT	TRIP RATING IN AMPERES	
AWG	AMERICAN WIRE GAUGE	
C	CONDUIT	
CL	CENTERLINE	
CXT	CIRCUIT	
CLG	CEILING	
DIST	DISTRIBUTION	
(E)	EXISTING TO REMAIN	
EC	EMPTY CONDUIT	
ELEC	ELECTRICAL	
EM	EMERGENCY	
EMT	ELECTRO METALLIC TUBING	
EWC	ELECTRIC WATER COOLER	
EWH	ELECTRIC WATER HEATER	
FA	FIRE ALARM	
GFCI	GROUND FAULT CIRCUIT INTERRUPTING	
G, GND	GROUND	
HP	HORSEPOWER	
MECH	MECHANICAL	
MCB	MAIN CIRCUIT BREAKER	
NC	NORMALLY CLOSED	
NEC	NATIONAL ELECTRIC CODE	
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	
NO	NORMALLY OPEN	
NTS	NOT TO SCALE	
PB	PULL BOX	
Ø, PH	PHASE	
PNL	PANEL	
PVC	POLYVINYL CHLORIDE CONDUIT	
PWR	POWER	
RSC	RIGID STEEL CONDUIT	
TEL	TELEPHONE	
TYP	TYPICAL	
UON	UNLESS OTHERWISE NOTED	
V	VOLT	
VA	VOLT AMPERES	
W	WATT	
WP	WEATHERPROOF	
XFMR	TRANSFORMER	



WILDER ENGINEERING LLC
 Andrew Wilder PE
 1170 Blue Sage Drive
 Steamboat Springs, CO 80487
 P: 970-819-7848
 E: andy@wilder-eng.com



Issue	By	Date & Issue Description	By
-	PERMIT	DWG - 6.9.21	AW