



DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
(OUTDOOR) MINI SPLIT HEAT PUMP	208V 2P 2W		2.33	14	24	P-9,11	3/4"C,2#12,#12N,#12G	NON-FUSED	MC	EC
CIRCULATION PUMP	120V 1P 2W	F HP	0.1			P-16	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC
EXHAUST FAN	208V 2P 2W	1/4 HP	0.7	4.18	15	P-35,37	3/4"C,2#10,#10G	TOGGLE SWITCH	мс	EC
ELECTRIC FAN HEATER	208V 2P 2W		3.99	24	25	P-23,25	3/4"C,2#10,#10G	NON-FUSED	мс	EC
ELECTRIC FAN HEATER	208V 2P 2W		2.3	24	25	P-31,33	3/4"C,2#10,#10G	NON-FUSED	мс	EC
ELECTRIC FAN HEATER	120V 1P 2W		1.15	12	15	P-27,29	3/4"C,2#12,#12N,#12G	NON-FUSED	мс	EC
ELECTRIC FAN HEATER	208V 2P 2W		2.3	24	30	P-18,20	3/4"C,2#10,#10G	NON-FUSED	мс	EC
GAS UNIT HEATER	120V 1P 2W	F HP	0.1	1.04	15	P-13	3/4"C,1#12,#12N,#12G	NON-FUSED	мс	EC
GAS UNIT HEATER	120V 1P 2W	F HP	0.1	1.04	15	P-17	3/4"C,1#12,#12N,#12G	NON-FUSED	мс	EC
GAS UNIT HEATER	120V 1P 2W	F HP	0.1	1.04	15	P-15	3/4"C,1#12,#12N,#12G	NON-FUSED	мс	EC
GAS UNIT HEATER	120V 1P 2W	F HP	0.1	1.04	15	P-21	3/4"C,1#12,#12N,#12G	NON-FUSED	мс	EC
GAS UNIT HEATER	120V 1P 2W	F HP	0.1	1.04	15	P-19	3/4"C,1#12,#12N,#12G	NON-FUSED	мс	EC
GAS WATER HEATER	120V 1P 2W		0.24	2.5	15	P-14	3/4"C,1#12,#12N,#12G	DUPLEX RECEPTACLE	EC	EC

Pa	nel		ROOM WEST 3 MOUNTING SURFACE FED FROM EXISTING PANEL NOTE NEW	S A	MPS	08Y/120V 150 100%	3P 4W	AIC 65,000 MAIN BKR 150 LUGS STANDARD
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	Τ	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.54	ROOM 2 RCPT	 a	2	20/1	0.319	LIGHTING
3	20/1	0.54	ROOM 4 RCPT	Ь	4	20/1	1.78	LIGHTING
5	20/1	0.54	ROOM 4,5,6 RCPT	c	6	20/1	0.282	LIGHTING
7	20/1	0.36	EXTERIOR RCPT	a	8	20/1	0.18	ELECTRIC WATER COOLER RCPT
9	20/2	2.43	AC-1	Ь	10	20/1	0.18	TRAP PRIMER
11	Ιí			c	12	20/1	0.18	TRAP PRIMER
13	15/1	0.1	UH–1	a	14	15/1	0.24	WH-1
15	15/1	0.1	UH-3	Ь	16	20/1	0.1	CP-1
17	15/1	0.1	UH-2	c	18	30/2	2.3	EFH-4
19	15/1	0.1	UH-5	a	20	lí		
21	15/1	0.1	UH-4	Ь	22	20/1	0	SPACE
23	25/2	3.99	EFH-1	c	24	20/1	0	SPACE
25	1 i			a	26	20/1	0	SPACE
27	15/2	1.15	EFH-3	b	28	20/1	0	SPACE
29	i			c	30	20/1	0	SPACE
31	25/2	2.3	EFH-2	a	32	20/1	0	SPACE
33	i			Ь	34	20/1	0	SPACE
35	15/2	0.696	EF-1	c	36	20/1	0	SPACE
37				a	38	20/1	0	SPACE
39	20/1	0.18	ROOF RCPT	b	40	20/1	0	SPACE
41	20/1	0	SPACE	c	42	20/1	0	SPACE
			 CONN KVA CALC KVA				 CON	 N KVA CALC KVA
LIGHTING 2.38 2.98 (125%)					мото	RC .	13.7	13.7 (100%)
LARGEST MOTOR			2.362.96(125%)3.990.998(25%)			PTACLES	2.7	2.7 (50%>10)
				TOTAL LOAD BALANCED 3—PHASE LOAD PHASE A PHASE B PHASE C				20.4 56.6 A 104% 102% 93.7%

	FEEDER S	CHEDULE	
CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
3/4"	3/4"	# 12	# 12
3/4"	3/4"	# 10	# 10
3/4"	3/4"	# 10	# 10
1"	3/4"	# 8	# 10
1"	3/4"	# 8	# 10
1"	1"	# 6	# 10
1"	1"	# 6	# 10
1 1/4"	1 1/4"	#4	# 10
1 1/4"	1 1/4"	# 4	# 8
1 1/4"	1 1/4"	# 3	# 8
1 1/2"	1 1/4"	# 2	# 8
1 1/2"	1 1/4"	# 2	# 8
2"	1 1/2"	# 1	# 6
2"	1 1/2"	# 1	# 6
2"	1 1/2"	# 1/0	# 6
2"	2"	# 2/0	# 6
2"	2"	# 3/0	# 6
2 1/2"	2"	#4/ 0	# 4
3"	2 1/2"	250 kcmil	# 4
3"	3"	350 kcmil	# 4
3 1/2"	3"	500 kcmil	# 3
(2) 2*	(2) 2"	2 SETS OF #3/0	# 3
(2) 2 1/2"	(2) 2"	2 SETS OF # 4/0	# 2
(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	# 2
(2) 3"	(2) 3*	2 SETS OF 350 kcmil	# 1
(2) 3 1/2*	(2) 3"	2 SETS OF 500 kcmil	# 1/0
(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	# 1/0
(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	# 2/0
(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	# 2/0
(4) 3"	(4) 3"	4 SETS OF 350 kcmil	# 3/0
(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil
(7) 3 1/2"	(7) 3"	7 SETS OF 500 kcmil	350 kcmil

250 300

350

400 450

500

600 700

2000 2500

NOTES:

 FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
SOME FEEDER SIZES DO NOT MATCH BREAKER SIZE DUE TO UP-SIZING OF THE FEEDER FOR VOLTAGE DROP. 3. CONDUITS ARE SIZED PER NEC TABLES FOR THHN/THWN AND MAY BE UPSIZED FOR EASE OF PULLING OR DOWNSIZED AS 4. ALL CONDUCTORS 100A AND LESS ARE SIZED PER 60 DEGREE LUGS, EC MAY SIZE CONDUCTORS FOR ACTUAL RATING OF LUGS PER NEC.

GENERAL NOTES

- AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY. FAULT CURRENT, ARC FLASH, AND COORDINATION STUDY SHALL BE PERFORMED BY A THIRD PARTY ONCE EXACT PANEL PLACEMENT AND
- DISTANCES ARE DETERMINED. REFER TO SPECIFICATIONS SECTION 26 0573 FOR MORE INFORMATION.
- PROVIDE A MINIMUM OF 10 SPARE 1P20A BREAKERS FOR EACH 120V SUB-PANEL.
- THE EXISTING LOAD FOR PANEL ## WAS UNABLE TO BE VERIFIED DURING DESIGN, EC SHALL PERFORM A 30 DAY LOAD STUDY ON THE PANEL PRIOR TO PERFORMING ANY WORK IN ORDER TO DETERMINE THE EXISTING PEAK LOAD IN ACCORDANCE WITH NEC 220.87(1). FINAL RESULTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO BÉGINNING WORK.

C KEYED NOTES								
1 1. EC ## II	SHALL PROVIDE NEW 150A/3P BREAKER WITHIN EXISTING PANEL N ORDER TO FEED NEW PANEL P.							



201 N. BROADWAY SUITE 210 MOORE, OK. 73160 405.735.3477 AGP@theAGP.net www.theAGP.net

WDB ENGINEERING

CIVIL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



GT drawn by DW checked by

MAY 2023

revisions

date

MOORE PUBLIC SCHOOLS BOARD OF EDUCATION

MOORE, OKLAHOMA

MOORE Public Schools

LOCKER ROOM ADDITION MOORE WEST JUNIOR HIGH SCHOOL

sheet no:



OWNERSHIP USE OF DOCUMENTS:

AGP EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS OF ALL PLANS AND DRAWINGS DESIGNED AND/OR PRODUCED. PLANS AND DRAWINGS ARE NOT TO BE REPRODUCED IN ANY FORM OR MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF AGP.

