

Construction Bulletin # 11

Client: Abla Griffin Partnership
 Project Name: MPS Daycare
 Project Number: 2450-70304-00

August 6, 2025

Requested by: Owner
 Contractor:
 Salas O'Brien:



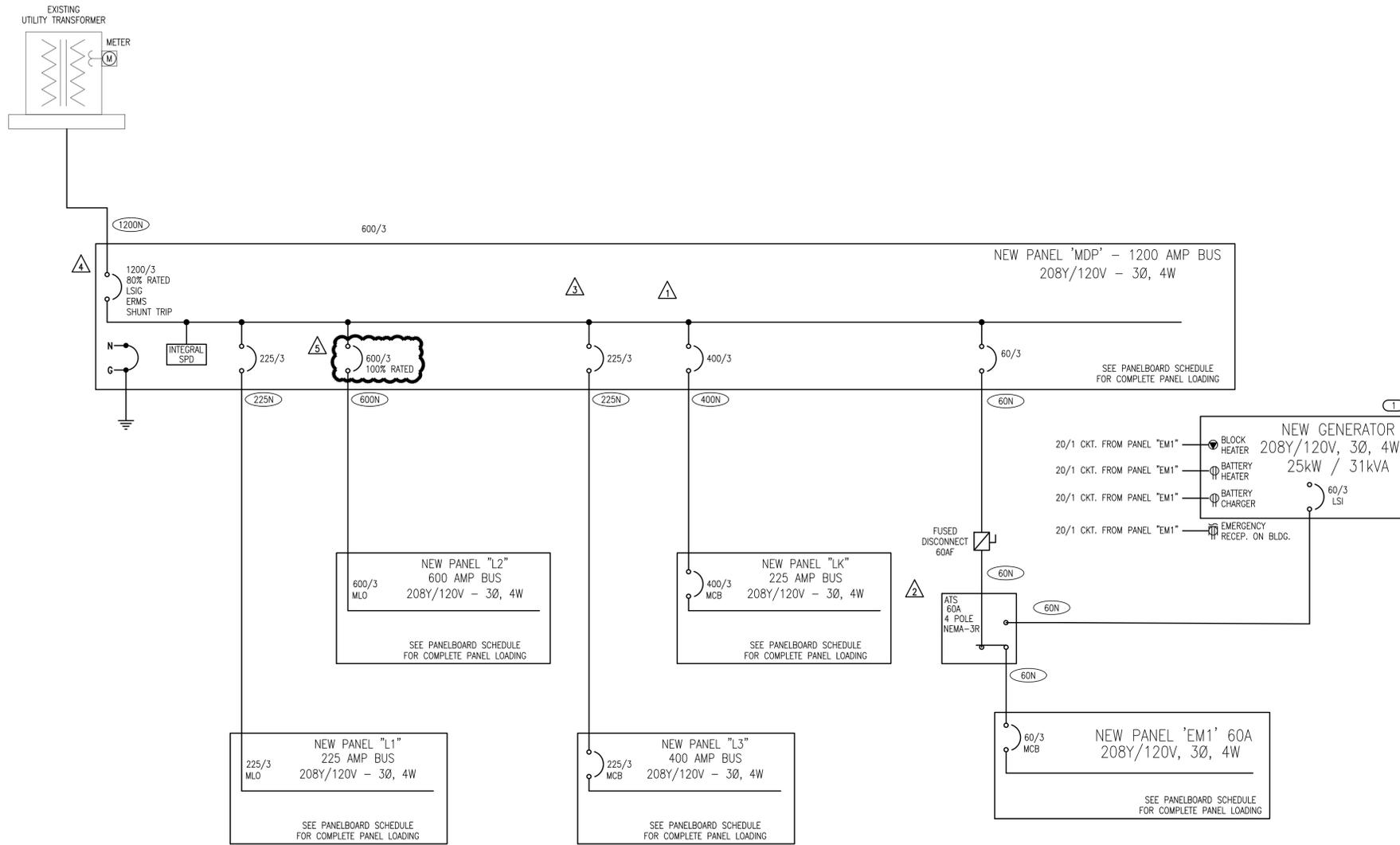
To: Mike Abla, Clay Griffin

This Construction Bulletin is issued to:

- Offer additional information for clarification or supplemental drawings for layout assistance.
- Request cost and time impact to initiate a change to the Contract Documents. Owner approval is required, do not commence with revisions unless directed in writing. Avoid Work in areas that may be affected by proposed change until approved or rejected. Once approved, forward Change Order documentation as required by the Contract Documents.
- Direct a required change in the Contract Documents. Proceed with change(s) as indicated. Forward Change Order documentation as required by the Contract Documents.
- Response to RFI ____.

Item No.	Description	Attachment
1	Refer to clouds and deltas.	E401
2	Refer to clouds and deltas.	E601
3	Refer to clouds and deltas.	E602

END OF CB-11



1 ONE-LINE DIAGRAM
NO SCALE

FEEDER SCHEDULE				
AMPS	CONDUIT SIZE 4W	CONDUIT SIZE 3W	PHASE CONDUCTORS	EQUIPMENT GROUND CONDUCTOR
20	3/4"	3/4"	#12	#12
25	3/4"	3/4"	#10	#10
30	3/4"	3/4"	#10	#10
35	1"	3/4"	#8	#10
40	1"	3/4"	#8	#10
45	1"	1"	#6	#10
50	1"	1"	#6	#10
60	1 1/4"	1 1/4"	#4	#10
70	1 1/4"	1 1/4"	#4	#8
80	1 1/4"	1 1/4"	#3	#8
90	1 1/2"	1 1/4"	#2	#8
100	1 1/2"	1 1/4"	#2	#8
110	2"	1 1/2"	#1	#6
125	2"	1 1/2"	#1	#6
150	2"	1 1/2"	#1/0	#6
175	2"	2"	#2/0	#6
200	2"	2"	#3/0	#6
225	2 1/2"	2"	#4/0	#4
250	3"	2 1/2"	250 kcmil	#4
300	3"	3"	350 kcmil	#4
350	3 1/2"	3"	500 kcmil	#3
400	(2) 2"	(2) 2"	2 SETS OF #3/0	#3
450	(2) 2 1/2"	(2) 2"	2 SETS OF #4/0	#2
500	(2) 2 1/2"	(2) 2 1/2"	2 SETS OF 250 kcmil	#2
600	(2) 3"	(2) 3"	2 SETS OF 350 kcmil	#1
700	(2) 3 1/2"	(2) 3"	2 SETS OF 500 kcmil	#1/0
800	(3) 3"	(3) 2 1/2"	3 SETS OF 300 kcmil	#1/0
900	(3) 3 1/2"	(3) 3"	3 SETS OF 400 kcmil	#2/0
1000	(3) 3 1/2"	(3) 3"	3 SETS OF 500 kcmil	#2/0
1200	(4) 3"	(4) 3"	4 SETS OF 350 kcmil	#3/0
1600	(5) 3 1/2"	(5) 3"	5 SETS OF 500 kcmil	#4/0
1800	(6) 3 1/2"	(6) 3"	6 SETS OF 400 kcmil	250 kcmil
2000	(6) 3 1/2"	(6) 3"	6 SETS OF 500 kcmil	250 kcmil
2500	(7) 3 1/2"	(7) 3"	7 SETS OF 500 kcmil	350 kcmil

NOTES:
 1. FEEDER SIZES ARE ON THE PLAN WHERE 60 REFERS TO A 60A FEEDER WITHOUT NEUTRAL AND 60N REFERS TO A 60A FEEDER WITH NEUTRAL.
 2. 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 ALLOWED PER NEC FOR CONDUIT TYPE(S) BEING INSTALLED.
 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

1. AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY.

KEYED NOTES

(1) GENERATOR SHALL BE DUAL FUEL - NATURAL GAS AND PROPANE. GENERATOR SHALL HAVE FUEL TYPE AUTOMATIC SWITCHOVER CAPABILITY. BASIS OF DESIGN - KOHLER MODEL 250CL 25/31 KW/KVA.



DWG
drawn by
TVO
checked by
OCTOBER 2024
date

revisions
 11/22/2024 AD 02
 12/12/2024 AD 03
 1/3/2025 AD 06
 01/29/2025 CB 02
 08/6/2025 CB 11



CHILD CARE FACILITY
201 N. EASTERN AVE.

sheet no:

E401

Salas O'Brien
 2900 S. Telephone Road, Suite 120
 Moore, OK 73160
 Salas O'Brien Registration: CA# 7058
 Expiration Date: 6/30/2025
 Salas O'Brien Project Number: 2450-70304-00

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DWG _____
drawn by _____
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1 11/22/2024 AD 02
2 12/12/2024 AD 03
3 1/3/2025 AD 06
4 01/29/2025 CB 02
5 04/23/2025 CB 08
6 08/6/2025 CB 11



Panel L3		ROOM MOUNTING SURFACE	VOLTS 208Y/120V 3P 4W	AIC 65,000	BUS AMPS 225		MAIN BKR 225	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	NOTE
1	20/1	0.18	RM 410 RECEPTACLE	a 2	20/1	0.73	LIGHTING	
3	20/1	0.18	RM 410 RECEPTACLE	b 4	20/1	0.619	LIGHTING	
5	20/1	0.18	RM 410 RECEPTACLE	c 6	20/1	0.838	LIGHTING	
7	20/1	0.72	RM 410 RECEPTACLE	a 8	20/1	0.918	LIGHTING	
9	20/1	0.72	RM 409 RECEPTACLE	b 10	20/1	0.99	LIGHTING	
11	20/1	0.72	RM 406 RECEPTACLE	c 12	20/1	0.72	ROOFTOP RECEPTACLE	
13	20/1	0.72	RM 405 RECEPTACLE	a 14	20/1	0.37	WATER COOLER RECEPTACLE	
15	20/1	0.72	RM 404 RECEPTACLE	b 16	20/1	0.54	RM 1 RECEPTACLE	
17	20/1	1.2	COPY MACHINE	c 18	20/1	1.09	CORRIDOR 412 RECEPTACLE, CORRIDOR 416 RECEPTACLE, CORRIDOR 435 RECEPTACLE, RM 411 RECEPTACLE, TRAP PRIMER	
19	20/1	0.36	RM 403 RECEPTACLE	a 20	20/1	0.72	RM 1A RECEPTACLE, RM 1 RECEPTACLE	
21	20/1	0.36	RM 402 RECEPTACLE	b 22	20/1	0.55	RM 436A RECEPTACLE, RM 436 RECEPTACLE, TRAP PRIMER	
23	20/1	0.36	RM 402 RECEPTACLE	c 24	20/1	0.36	RM 436 RECEPTACLE	
25	20/1	0.54	RM 402 RECEPTACLE	a 26	20/1	1.26	RECEPTACLE, RM 105G RECEPTACLE, RM 5 RECEPTACLE	
27	20/1	0.9	RM 401 RECEPTACLE	b 28	20/1	0.72	RM 201A RECEPTACLE, RM 201 RECEPTACLE	
29	20/1	0.9	RM 305 RECEPTACLE, SMARTBOARD	c 30	20/1	0.9	RM 301B RECEPTACLE, RM 302 RECEPTACLE	
31	20/1	0.72	RM 301E RECEPTACLE, RM 305 RECEPTACLE	a 32	20/1	0.72	RM 302 RECEPTACLE, SMARTBOARD	
33	20/1	0.9	RM 301D RECEPTACLE, RM 304 RECEPTACLE, SMARTBOARD	b 34	20/1	0.72	RM 417A RECEPTACLE, RM 417B RECEPTACLE, RM 417C RECEPTACLE, RM 417 RECEPTACLE	
35	20/1	0.72	RM 304 RECEPTACLE	c 36	20/1	0.72	RM 417 RECEPTACLE	
37	20/1	0.72	RM 301C RECEPTACLE, RM 303 RECEPTACLE	a 38	20/1	0.36	RM 417 RECEPTACLE	
39	20/1	0.9	RM 303 RECEPTACLE, SMARTBOARD	b 40	15/1	0.696	EF-4	
41	20/1	0.54	RM 413 RECEPTACLE, RM 414 RECEPTACLE, RM 415 RECEPTACLE	c 42	15/1	0.696	EF-3	
43	20/1	0.54	EXTERIOR RECEPTACLE, RECEPTACLE	a 44	20/2	2	EFH-3	
45	20/1	1.09	CORRIDOR 412 RECEPTACLE, CORRIDOR 419 RECEPTACLE, RM 418 RECEPTACLE, TRAP PRIMER	b 46				
47	20/1	0.54	CORRIDOR 407 RECEPTACLE, CORRIDOR 408 RECEPTACLE	c 48	20/2	2	EFH-2	
49	20/1	0.48	LIGHTING	a 50				
51	20/2	1.12	LIGHTING	b 52	15/1	0.696	EF-8	
53				c 54	20/1	0.5	RM 417 PROJECTOR	
55	20/1	0	SPACE	a 56	20/1	0.5	RM 417 PROJECTOR	
57	20/1	0	SPACE	b 58	20/1	0.54	RM 409 RECEPTACLE	
59	20/1	0	SPACE	c 60	20/1	0	SPACE	
61	20/1	0	SPACE	a 62	20/1	0	SPACE	
63	20/1	0	SPACE	b 64	20/1	0	SPACE	
65	20/1	0	SPACE	c 66	20/1	0	SPACE	
67	20/1	0	SPACE	a 68	20/1	0	SPACE	
69	20/1	0	SPACE	b 70	20/1	0	SPACE	
71	20/1	0	SPACE	c 72	20/1	0	SPACE	
73	20/1	0	SPACE	a 74	20/1	0	SPACE	
75	20/1	0	SPACE	b 76	20/1	0	SPACE	
77	20/1	0	SPACE	c 78	20/1	0	SPACE	
79	20/1	0	SPACE	a 80	20/1	0	SPACE	
81	20/1	0	SPACE	b 82	20/1	0	SPACE	
83	20/1	0	SPACE	c 84	20/1	0	SPACE	

CONN KVA	CALC KVA		CONN KVA	CALC KVA	
LIGHTING	5.7	7.12 (125%)	MOTORS	2.09	2.09 (100%)
LARGEST MOTOR	0.696	0.174 (25%)	RECEPTACLES	26.7	18.4 (50%>10)
			HEATING	4	4 (100%)
TOTAL LOAD			31.7		
BALANCED 3-PHASE LOAD			88.1 A		
PHASE A			97.8%		
PHASE B			104%		
PHASE C			97.7%		

Panel L1		ROOM MOUNTING SURFACE	VOLTS 208Y/120V 3P 4W	AIC 65,000	BUS AMPS 225		MAIN BKR MLO	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	NOTE
1	20/1	0.9	ROOFTOP RECEPTACLE	a 2	20/1	1.24	LIGHTING	
3	20/1	0.36	RM 431 RECEPTACLE, RM 433 RECEPTACLE	b 4	20/1	1.07	LIGHTING	
5	20/1	0.36	I.T. RECEPTACLE	c 6	20/1	0.706	LIGHTING	
7	20/1	0.36	I.T. RECEPTACLE	a 8	20/1	0.48	LIGHTING	
9	20/1	0.36	I.T. RECEPTACLE	b 10	20/1	0.636	LIGHTING	
11	20/1	0.36	I.T. RECEPTACLE	c 12	20/1	1.06	LIGHTING	
13	20/1	0.54	RM 434 RECEPTACLE	a 14	20/1	0.528	CP-3	
15	20/1	0.54	RM 434 RECEPTACLE	b 16	20/1	0.1	WH-3	
17	20/1	0.54	RM 430 RECEPTACLE	c 18	20/1	0.1	WH-4	
19	20/1	0.36	RM 430 RECEPTACLE	a 20	20/1	0.1	WH-1	
21	20/1	0.9	RM 429 RECEPTACLE, SMARTBOARD	b 22	20/1	0.1	WH-2	
23	20/1	0	SPACE	c 24	20/1	0.1	WH-5	
25	20/1	0.72	RM 1E RECEPTACLE, RM 5 RECEPTACLE	a 26	20/1	0.528	CP-2	
27	20/1	0.93	CORRIDOR 428 RECEPTACLE, CORRIDOR 435 RECEPTACLE, RM 435 RECEPTACLE, TRAP PRIMER	b 28	15/1	0.696	EF-1	
29	20/1	0.54	RM 5 RECEPTACLE	c 30	30/2	4.5	EFH-1	
31	20/1	0.72	RM 1D RECEPTACLE, RM 4 RECEPTACLE	a 32				
33	20/1	0.54	RM 4 RECEPTACLE	b 34	15/1	0.696	EF-5	
35	20/1	0.54	RM 3 RECEPTACLE	c 36	15/1	0.696	EF-6	
37	20/1	0.72	RM 1C RECEPTACLE, RM 3 RECEPTACLE	a 38	15/1	0.696	EF-2	
39	20/1	0.72	RM 1B RECEPTACLE, RM 2 RECEPTACLE	b 40	20/1	0.528	CP-1	
41	20/1	0.54	RM 2 RECEPTACLE	c 42	20/2	2	EFH-1	
43	20/1	0.54	RM 103 RECEPTACLE	a 44				
45	20/1	0.72	RM 101C RECEPTACLE, RM 103 RECEPTACLE	b 46	20/2	2	EFH-4	
47	20/1	0.72	RM 101B RECEPTACLE, RM 102 RECEPTACLE	c 48				
49	20/1	0.54	RM 102 RECEPTACLE	a 50	15/1	0.696	EF-7	
51	20/1	0.72	RM 101A RECEPTACLE, RM 101 RECEPTACLE	b 52	20/1	0.9	RM 301A RECEPTACLE, RM 301 RECEPTACLE, RM 303 RECEPTACLE	
53	20/1	0.54	RM 101 RECEPTACLE	c 54	20/1	0.72	RM 301 RECEPTACLE, SMARTBOARD	
55	20/1	0.72	RM 101D RECEPTACLE, RM 104 RECEPTACLE	a 56	20/1	0.72	RM 422 RECEPTACLE	
57	20/1	0.72	RM 104 RECEPTACLE	b 58	20/1	0.54	RM 423 RECEPTACLE, RM 424 RECEPTACLE, RM 425 RECEPTACLE	
59	20/1	1.08	RM 101E RECEPTACLE, RM 105 RECEPTACLE	c 60	20/1	0.9	RM 205 RECEPTACLE	
61	20/1	0.9	CORRIDOR 436 RECEPTACLE, RM 105F RECEPTACLE, RM 105 RECEPTACLE	a 62	20/1	0.9	RM 201E RECEPTACLE, RM 205 RECEPTACLE	
63	20/1	0.72	RM 201C RECEPTACLE, RM 203 RECEPTACLE	b 64	20/1	1.09	RECEPTACLE, RM 201D RECEPTACLE, RM 204 RECEPTACLE, TRAP PRIMER	
65	20/1	0.54	EXTERIOR RECEPTACLE	c 66	20/1	0.9	RECEPTACLE, RM 204 RECEPTACLE	
67	20/1	1.1	CORRIDOR 419 RECEPTACLE, CORRIDOR 420 RECEPTACLE, CORRIDOR 428 RECEPTACLE, RM 421 RECEPTACLE, TRAP PRIMER	a 68	20/1	0.9	RM 202 RECEPTACLE	
69	20/1	0.36	TELECOM EQ	b 70	20/1	0.72	RM 201B RECEPTACLE, RM 202 RECEPTACLE	
71	20/1	0.72	MEZZANINE RECEPTACLE	c 72	20/1	0.9	RM 203 RECEPTACLE	
73	20/1	0.5	RM 429 PROJECTOR	a 74	20/1	0.415	DRYER, DRYER BOOSTER FAN	
75	20/1	0.02	DOOR HOLD-OPEN SYSTEM, DOOR SPEAKER SYSTEM	b 76	20/1	0.84	WASHER	
77	20/1	0.84	WASHER	c 78	20/1	0.18	FACP	
79	20/1	0.84	WASHER	a 80	30/2	4.6	DRYER	
81	30/2	4.6	DRYER	b 82				
83				c 84	20/1	0	SPACE	

CONN KVA	CALC KVA		CONN KVA	CALC KVA	
LIGHTING	5.2	6.5 (125%)	MOTORS	5.56	5.56 (100%)
LARGEST MOTOR	0.696	0.174 (25%)	RECEPTACLES	44.2	27.1 (50%>10)
			HEATING	8.5	8.5 (100%)
TOTAL LOAD			47.8		
BALANCED 3-PHASE LOAD			133 A		
PHASE A			105%		
PHASE B			99.9%		
PHASE C			95.1%		

Panel MDP		ROOM MOUNTING SURFACE	VOLTS 208Y/120V 3P 4W	AIC 65,000	BUS AMPS 1200		MAIN BKR 1200	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	NOTE
1	225/3	63.5	PANEL L1	a 2	600/3	190	PANEL L2	
3				b 4				
5				c 6				
7	225/3	38.5	PANEL L3	a 8	400/3	93.3	PANEL LK	
9				b 10				
11				c 12				
13	20/1	0	SPACE	a 14	60/3	9.38	TRANSFER SWITCH ATS	
15	20/1	0	SPACE	b 16				
17	20/1	0	SPACE	c 18				
19	20/1	0	SPACE	a 20	20/1	0	SPACE	
21	20/1	0	SPACE	b 22	20/1	0	SPACE	
23	20/1	0	SPACE	c 24	20/1	0	SPACE	
25	20/1	0	SPACE	a 26	20/1	0	SPACE	
27	20/1	0	SPACE	b 28	20/1	0	SPACE	
29	20/1	0	SPACE	c 30	20/1	0	SPACE	

CONN KVA	CALC KVA		CONN KVA	CALC KVA	
LIGHTING	16.7	20.9 (125%)	RECEPTACLES	75.3	42.7 (50%>10)
LARGEST MOTOR	18	4.5 (25%)	HEATING	205	205 (100%)
MOTORS	97.2	97.2 (100%)	COOLING	190	0 (0%)
TOTAL LOAD			370		
BALANCED 3-PHASE LOAD			1,030 A		
PHASE A			103%		
PHASE B			101%		
PHASE C			96.4%		

Panel L2		ROOM MOUNTING SURFACE	VOLTS 208Y/120V 3P 4W	AIC 65,000	BUS AMPS 600		MAIN BKR MLO	
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	NOTE
1	50/3	9.17	RTU-1	a 2	45/3	8.95	RTU-9	
3				b 4				
5				c 6				
7	50/3	10.9	RTU-2	a 8	50/3	10.9	RTU-10	
9				b 10				
11				c 12				

MECHANICAL EQUIPMENT SCHEDULE											
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CP-1	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-40	3/4"C,1#10,1#10G	TOGGLE SWITCH	EC	EC
CP-2	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-26	3/4"C,1#12,1#12N,1#12G	TOGGLE SWITCH	EC	EC
CP-3	CIRCULATION PUMP	120V 1P 2W	1/6 HP	0.53			L1-14	3/4"C,1#12,1#12N,1#12G	TOGGLE SWITCH	EC	EC
EF-1	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-28	3/4"C,1#10,1#10N,1#10G	TOGGLE SWITCH	EC	EC
EF-2	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-38	3/4"C,1#10,1#10N,1#10G	TOGGLE SWITCH	EC	EC
EF-3	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L3-42	3/4"C,1#12,1#12N,1#12G	TOGGLE SWITCH	EC	EC
EF-4	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L3-40	3/4"C,1#12,1#12N,1#12G	TOGGLE SWITCH	EC	EC
EF-5	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-34	3/4"C,1#10,1#10N,1#10G	TOGGLE SWITCH	EC	EC
EF-6	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-36	3/4"C,1#10,1#10N,1#10G	TOGGLE SWITCH	EC	EC
EF-7	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L1-50	3/4"C,1#10,1#10N,1#10G	TOGGLE SWITCH	EC	EC
EF-8	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	4	15	L3-52	3/4"C,1#10,1#10N,1#10G	TOGGLE SWITCH	EC	EC
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L1-42,44	3/4"C,2#10,1#10G,1#10G	TOGGLE SWITCH	MFR	EC
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L3-48,50	3/4"C,2#10,1#10G,1#10G	TOGGLE SWITCH	MFR	EC
EFH-3	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L3-44,46	3/4"C,2#10,1#10G,1#10G	TOGGLE SWITCH	MFR	EC
EFH-4	ELECTRIC FAN FORCED HEATER	208V 2P 2W		2			L1-46,48	3/4"C,2#10,1#10G,1#10G	TOGGLE SWITCH	MFR	EC
EWH-1	ELECTRIC WATER HEATER	208V 2P 2W		4.5			L1-30,32	3/4"C,2#10,1#10G	NON-FUSED	EC	EC
RTU-1	ROOF TOP UNIT	208V 3P 3W		9.17	38.2	50	L2-1,3,5	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-2	ROOF TOP UNIT	208V 3P 3W		10.92	43.8	50	L2-7,9,11	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-3	ROOF TOP UNIT	208V 3P 3W		9.17	38.2	50	L2-13,15,17	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-4	ROOF TOP UNIT	208V 3P 3W		10.92	43.8	50	L2-19,21,23	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-5	ROOF TOP UNIT	208V 3P 3W		16.64	58.9	70	L2-25,27,29	1"C,3#4,1#8G	NON-FUSED	MFR	EC
RTU-6	ROOF TOP UNIT	208V 3P 3W		9.17	38.2	50	L2-31,33,35	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-7	ROOF TOP UNIT	208V 3P 3W		16.64	58.9	70	L2-37,39,41	1"C,3#4,1#8G	NON-FUSED	MFR	EC
RTU-8	ROOF TOP UNIT	208V 3P 3W		17.58	61.6	70	L2-43,45,47	1"C,3#4,1#8G	NON-FUSED	MFR	EC
RTU-9	ROOF TOP UNIT	208V 3P 3W		8.95	37.5	45	L2-2,4,6	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-10	ROOF TOP UNIT	208V 3P 3W		10.92	43.8	50	L2-8,10,12	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-11	ROOF TOP UNIT	208V 3P 3W		16.64	58.9	70	L2-14,16,18	1"C,3#4,1#8G	NON-FUSED	MFR	EC
RTU-12	ROOF TOP UNIT	208V 3P 3W		8.95	37.5	45	L2-20,22,24	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-13	ROOF TOP UNIT	208V 3P 3W		16.64	58.9	70	L2-26,28,30	1"C,3#4,1#8G	NON-FUSED	MFR	EC
RTU-14	ROOF TOP UNIT	208V 3P 3W		9.17	38.2	50	L2-32,34,36	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-15	ROOF TOP UNIT	208V 3P 3W		9.17	38.2	50	L2-38,40,42	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
RTU-16	ROOF TOP UNIT	208V 3P 3W		9.17	38.2	50	L2-44,46,48	3/4"C,3#6,1#10G	NON-FUSED	MFR	EC
SF-1	EXHAUST FAN	120V 1P 2W	1/2 HP	1.18	2	15	EM1-2	3/4"C,1#12,1#12N,1#12G	TOGGLE SWITCH	EC	EC
SF-2	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	2	15	EM1-4	3/4"C,1#10,1#10N,1#10G	TOGGLE SWITCH	EC	EC
SF-3	EXHAUST FAN	120V 1P 2W	1/4 HP	0.7	2	15	EM1-6	3/4"C,1#12,1#12N,1#12G	TOGGLE SWITCH	EC	EC
WH-1	WATER HEATER	120V 1P 2W	F HP	0.1			L1-20	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
WH-2	WATER HEATER	120V 1P 2W	F HP	0.1			L1-22	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
WH-3	WATER HEATER	120V 1P 2W	F HP	0.1			L1-16	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
WH-4	WATER HEATER	120V 1P 2W	F HP	0.1			L1-18	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
WH-5	WATER HEATER	120V 1P 2W	F HP	0.1			L1-24	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC

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KITCHEN EQUIPMENT SCHEDULE											
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
AC	AIR CURTAIN	120V 1P 2W	1 HP	1.92					TOGGLE SWITCH	EC	EC
CLR	COOLER LIGHTING	120V 1P 2W		0.3			LK-15	3/4"C,1#12,1#12N,1#12G	JUNCTION BOX	EC	EC
CO-1	CONVECTION OVEN	120V 1P 2W	1/2 HP	1.18			LK-30	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
CO-2	CONVECTION OVEN	120V 1P 2W	1/2 HP	1.18			LK-26	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
CS-1	CONVECTION STEAMER	208V 2P 2W		6			LK-8,10	3/4"C,2#6,1#10G	NON-FUSED	EC	EC
CS-2	CONVECTION STEAMER	208V 2P 2W		8			LK-2,4	3/4"C,2#6,1#10G	NON-FUSED	EC	EC
DOAS-1	ROOF TOP UNIT	208V 3P 3W		16.43	57.1	60	LK-71,73,75	1"C,3#4,1#10G	NON-FUSED	MFR	EC
DTK	DRAIN WATER TEMPERING KIT	120V 1P 2W		0.6			LK-57	3/4"C,1#12,1#12N,1#12G	JUNCTION BOX	EC	EC
DW	DISHWASHER	208V 3P 3W		18			LK-51,53,55	1"C,3#4,1#8G	NON-FUSED	EC	EC
EK	ELECTRIC KETTLE	208V 3P 3W		10.8			LK-14,16,18	3/4"C,3#6,1#10G	NON-FUSED	EC	EC
EVAP	EVAPORATOR	208V 2P 2W		0.21			LK-17,19	3/4"C,2#12,1#12G	JUNCTION BOX	EC	EC
EVAP	EVAPORATOR	208V 2P 2W		0.21			LK-21,23	3/4"C,2#12,1#12G	JUNCTION BOX	EC	EC
FRZ	FREEZER LIGHTING	120V 1P 2W		0.3			LK-15	3/4"C,1#12,1#12N,1#12G	JUNCTION BOX	EC	EC
FSS	FIRE SUPPRESSION SYSTEM	120V 1P 2W		0.12			LK-38	3/4"C,1#12,1#12N,1#12G	JUNCTION BOX	EC	EC
HC	HOT CABINET	120V 1P 2W		1.92			LK-34	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
HFV	HOT FOOD WELL	208V 2P 2W		2.81			LK-39,41	3/4"C,2#12,1#12G	NON-FUSED	EC	EC
HT	HEAT TAPE	120V 1P 2W		1.92			LK-25	3/4"C,1#12,1#12N,1#12G	JUNCTION BOX	EC	EC
IM	ICE MAKER	120V 1P 2W		1.62			LK-47	3/4"C,1#12,1#12N,1#12G	TOGGLE SWITCH	EC	EC
KEF-1	KITCHEN EXHAUST FAN	208V 3P 3W		2.63			LK-65,67,69	3/4"C,3#10,1#10G	NON-FUSED	EC	EC
MC	MILK COOLER	120V 1P 2W		0.33			LK-35	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
MW	MICROWAVE	120V 1P 2W		1.5			LK-29	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
POS	POINT OF SALE SYSTEM	120V 1P 2W		0.12			LK-43	3/4"C,1#12,1#12N,1#12G	JUNCTION BOX	EC	EC
RFW	REFRIGERATED FOOD WELL	120V 1P 2W		0.84			LK-37	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
RS-1	REFRIGERATION SYSTEM	208V 3P 3W		9.73	29	40	LK-59,61,63	3/4"C,3#10,1#10G	NON-FUSED	EC	EC
SM	STAND MIXER	120V 1P 2W	1/2 HP	1.18			LK-31	3/4"C,1#12,1#12N,1#12G	DUPLEX RECEPTACLE GFI	EC	EC
VCP	VENTILATOR CONTROL PANEL	120V 1P 2W		0.12			LK-45	3/4"C,1#12,1#12N,1#12G	JUNCTION BOX	EC	EC
VEN	VENTILATOR	120V 1P 2W		1.8			LK-42	3/4"C,1#12,1#12N,1#12G	TOGGLE SWITCH	EC	EC

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Panel LK		ROOM MOUNTING	RECESSED	VOLTS	208Y/120V 3P 4W	AIC	65,000
NOTE [DOUBLE TUB]		FED FROM	MDP	BUS AMPS	400	MAIN BKR	400
				NEUTRAL	100%	LUGS	STANDARD
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.726	LIGHTING	a	2	50/2	8 CS-2
3	20/1	0.36	RECEPTACLE	b	4		0
5	20/1	0.36	RECEPTACLE	c	6	-/1	0 SHUNT TRIP
7	20/1	0.36	RECEPTACLE	a	8	40/2	6 CS-1
9	20/1	0.36	RECEPTACLE	b	10		0
11	20/1	0.36	RECEPTACLE	c	12	-/1	0 SHUNT TRIP
13	20/1	0.54	RECEPTACLE	a	14	40/3	10.8 EK
15	20/1	0.6	CLR, FRZ	b	16		0
17	20/2	0.208	EVAP	c	18		0
19				a	20	-/1	0
21	20/2	0.208	EVAP	b	22	20/1	0.18 SHUNT TRIP
23				c	24	-/1	0 SHUNT TRIP
25	20/1	1.92	HT	a	26	20/1	1.18 CO-2
27	20/1	0.01	TRAP PRIMER	b	28	-/1	0 SHUNT TRIP
29	20/1	1.5	MW	c	30	20/1	1.18 CO-1
31	20/1	1.18	SM	a	32	-/1	0 SHUNT TRIP
33	20/1	0.01	TRAP PRIMER	b	34	20/1	1.92 HC
35	20/1	0.325	MC	c	36	-/1	0 SHUNT TRIP
37	20/1	0.84	RFW	a	38	20/1	0.12 FSS
39	20/2	2.81	HFV	b	40	-/1	0 SHUNT TRIP
41				c	42	20/1	1.8 VEN
43	20/1	0.12	POS	a	44	-/1	0 SHUNT TRIP
45	20/1	0.12	VCP	b	46	20/1	0.18 GAS VALVE
47	20/1	1.62	IM	c	48	-/1	0 SHUNT TRIP
49	20/1	0.01	TRAP PRIMER	a	50	20/1	0 SPACE
51	70/3	18	DW	b	52	20/1	0 SPACE
53				c	54	20/1	0 SPACE
55				a	56	20/1	0 SPACE
57	20/1	0.6	DTK	b	58	20/1	0 SPACE
59	40/3	9.73	RS-1	c	60	20/1	0 SPACE
61				a	62	20/1	0 SPACE
63				b	64	20/1	0 SPACE
65	20/3	2.63	KEF-1	c	66	20/1	0 SPACE
67				a	68	20/1	0 SPACE
69				b	70	20/1	0 SPACE
71	60/3	16.4	DOAS-1	c	72	20/1	0 SPACE
73				a	74	20/1	0 SPACE
75				b	76	20/1	0 SPACE
77	20/1	0	SPACE	c	78	20/1	0 SPACE
79	20/1	0	SPACE	a	80	20/1	0 SPACE
81	20/1	0	SPACE	b	82	20/1	0 SPACE
83	20/1	0	SPACE	c	84	20/1	0 SPACE

CONN KVA		CALC KVA		CONN KVA		CALC KVA	
LIGHTING	0.726	0.907	(125%)	MOTORS	87	87	(100%)
LARGEST MOTOR	18	4.5	(25%)	RECEPTABLES	2.73	2.73	(50%>10)
				HEATING	2.81	2.81	(100%)
				TOTAL LOAD	98		
				BALANCED 3-PHASE LOAD	272 A		
				PHASE A	107%		
				PHASE B	103%		
				PHASE C	89.5%		

Panel EM1		ROOM MOUNTING	SURFACE	VOLTS	208Y/120V 3P 4W	AIC	65,000
NOTE		FED FROM	ATS	BUS AMPS	60	MAIN BKR	60
				NEUTRAL	100%	LUGS	STANDARD
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.432	LIGHTING	a	2	15/1	1.18 SF-1
3	20/1	0.441	LIGHTING	b	4	15/1	0.696 SF-2
5	20/1						