

EXISTING PANELBOARD					10E		LOCATION: MECHANICAL 1083		FED FROM: LO1			
225 AMP MLO			480Y/277V		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): EXISTING			
CKT	BRKR	POLE	LOAD		A	B	C	LOAD		POLE	BRKR	CKT
1					3.7	3.7						2
3	20 A	3	AHU-2-1 VFD (ML)			3.7	3.7		AHU-2-2 VFD (ML)	3	20 A	4
5							3.7	3.7				6
7												8
9	20 A	3	AHU-2-3 VFD (ML)			3.7	3.7		AHU-2-4 VFD (ML)	3	20 A	10
11							3.7	3.7				12
13					6.6	6.6						14
15	30 A	3	TCHWP-2A (ML)			6.6	6.6		TCHWP-2B (ML)	3	30 A	16
17							6.6	6.6				18
19												20
21												22
23												24
25												26
27												28
29												30
31												32
33												34
35												36
37												38
39												40
41												42
					28 kVA	28 kVA	28 kVA					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER 2008 NEC 427.22. DED. NEUTRAL.				(EB) = EXISTING BREAKER			
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER 2008 NEC 210.8. DED. NEUTRAL.				(RB) = REPLACE BREAKER WITH SIZE INDICATED			
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.				(PB) = PROVIDE BREAKER IN EXISTING SPACE			
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.							
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.				LOADS FOR EXISTING CIRCUITS ARE ASSUMED			
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals			
INTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA	Total Conn. Load: 84.6 kVA Total Est. Demand: 84.6 kVA Total Conn. Current: 102 A Total Est. Demand... 102 A			
EXTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA				
RECEPTACLES	0.00 kVA	0.00%	0.00 kVA				
AC / HEAT PUMP	84.56 kVA	100.00%	84.56 kVA				
ELECTRIC HEAT	0.00 kVA	0.00%	0.00 kVA				
KITCHEN	0.00 kVA	0.00%	0.00 kVA				
MISCELLANEOUS	0.00 kVA	0.00%	0.00 kVA				

EXISTING PANELBOARD					20E		LOCATION: MECHANICAL 2107		FED FROM: LO1							
225 AMP MLO			480Y/277V		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): EXISTING							
CKT	BRKR	POLE	LOAD			A		B		C		LOAD		POLE	BRKR	CKT
1						3.7	3.7					AHU-3-2 VFD (ML)				2
3	20 A	3	AHU-3-1 VFD (ML)					3.7	3.7					3	20 A	4
5										3.7	3.7					6
7																8
9	20 A	3	AHU-3-3 VFD (ML)					3.7	3.7			AHU-3-4 VFD (ML)		3	20 A	10
11										3.7	3.7					12
13																14
15	20 A	3	AHU-3-5 VFD (ML)					3.7	3.7			AHU-3-6 VFD (ML)		3	20 A	16
17										3.7	3.7					18
19																20
21																22
23																24
25																26
27																28
29																30
31																32
33																34
35																36
37																38
39																40
41																42
						22 KVA		22 KVA		22 KVA						

81 A				81 A			
(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER 2008 NEC 427.22. DED. NEUTRAL.				(EB) = EXISTING BREAKER			
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER 2008 NEC 210.8. DED. NEUTRAL.				(RB) = REPLACE BREAKER WITH SIZE INDICATED			
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.				(PB) = PROVIDE BREAKER IN EXISTING SPACE			
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.							
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.				LOADS FOR EXISTING CIRCUITS ARE ASSUMED			
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals			
INTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA	Total Conn. Load: 67.1 kVA			
EXTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA				
RECEPTACLES	0.00 kVA	0.00%	0.00 kVA	Total Est. Demand: 67.1 kVA			
AC / HEAT PUMP	67.11 kVA	100.00%	67.11 kVA				
ELECTRIC HEAT	0.00 kVA	0.00%	0.00 kVA	Total Conn. Current: 81 A			
KITCHEN	0.00 kVA	0.00%	0.00 kVA				
MISCELLANEOUS	0.00 kVA	0.00%	0.00 kVA	Total Est. Demand... 81 A			

EXISTING PANELBOARD				10W		LOCATION: MECHANICAL 1034		FED FROM: LO1			
225 AMP MLO		480Y/277V		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): EXISTING			
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	
1				3.7	3.7					2	
3	20 A	3	AHU-1-1 VFD (ML)		3.7	3.7				4	
5						3.7	3.7			6	
7				3.7	3.7					8	
9	20 A	3	AHU-1-3 VFD (ML)		3.7	3.7				10	
11						3.7	3.7			12	
13				6.6	6.6					14	
15	30 A	3	TCHWP-1A (ML)		6.6	6.6				16	
17						6.6	6.6			18	
19										20	
21										22	
23										24	
25										26	
27										28	
29										30	
31										32	
33										34	
35										36	
37										38	
39										40	
41										42	
				28 kVA	28 kVA	28 kVA					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER 2008 NEC 427.22. DED. NEUTRAL. (EB) = EXISTING BREAKER				102 A			
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER 2008 NEC 210.8. DED. NEUTRAL. (RB) = REPLACE BREAKER WITH SIZE INDICATED				102 A			
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING. (PB) = PROVIDE BREAKER IN EXISTING SPACE							
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.							
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.				LOADS FOR EXISTING CIRCUITS ARE ASSUMED			
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals			
INTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA	Total Conn. Load: 84.6 kVA Total Est. Demand: 84.6 kVA Total Conn. Current: 102 A Total Est. Demand... 102 A			
EXTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA				
RECEPTACLES	0.00 kVA	0.00%	0.00 kVA				
AC / HEAT PUMP	84.56 kVA	100.00%	84.56 kVA				
ELECTRIC HEAT	0.00 kVA	0.00%	0.00 kVA				
KITCHEN	0.00 kVA	0.00%	0.00 kVA				
MISCELLANEOUS	0.00 kVA	0.00%	0.00 kVA				

EXISTING PANELBOARD				20W		LOCATION: MECHANICAL 2044		FED FROM: LO1			
225 AMP MLO		480Y/277V		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): EXISTING			
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	
1				3.7	3.7					2	
3	20 A	3	AHU-3-1 VFD (ML)		3.7	3.7	AHU-3-2 VFD (ML)	3	20 A	4	
5										6	
7				3.7	3.7					8	
9	20 A	3	AHU-3-3 VFD (ML)		3.7	3.7	AHU-3-4 VFD (ML)	3	20 A	10	
11										12	
13				3.7	3.7					14	
15	20 A	3	AHU-3-5 VFD (ML)		3.7	3.7	AHU-3-6 VFD (ML)	3	20 A	16	
17										18	
19										20	
21										22	
23										24	
25										26	
27										28	
29										30	
31										32	
33										34	
35										36	
37										38	
39										40	
41										42	
				22 kVA	22 kVA	22 kVA					

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER 2008 NEC 427.22. DED. NEUTRAL. (EB) = EXISTING BREAKER				(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER 2008 NEC 210.8. DED. NEUTRAL. (RB) = REPLACE BREAKER WITH SIZE INDICATED				(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING. (PB) = PROVIDE BREAKER IN EXISTING SPACE			
(LC) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.				(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.				LOADS FOR EXISTING CIRCUITS ARE ASSUMED			
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals							
INTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA	Total Conn. Load: 67.1 kVA Total Est. Demand: 67.1 kVA Total Conn. Current: 81 A Total Est. Demand... 81 A							
EXTERIOR LIGHTING	0.00 kVA	0.00%	0.00 kVA								
RECEPTACLES	0.00 kVA	0.00%	0.00 kVA								
AC / HEAT PUMP	67.11 kVA	100.00%	67.11 kVA								
ELECTRIC HEAT	0.00 kVA	0.00%	0.00 kVA								
KITCHEN	0.00 kVA	0.00%	0.00 kVA								
MISCELLANEOUS	0.00 kVA	0.00%	0.00 kVA								