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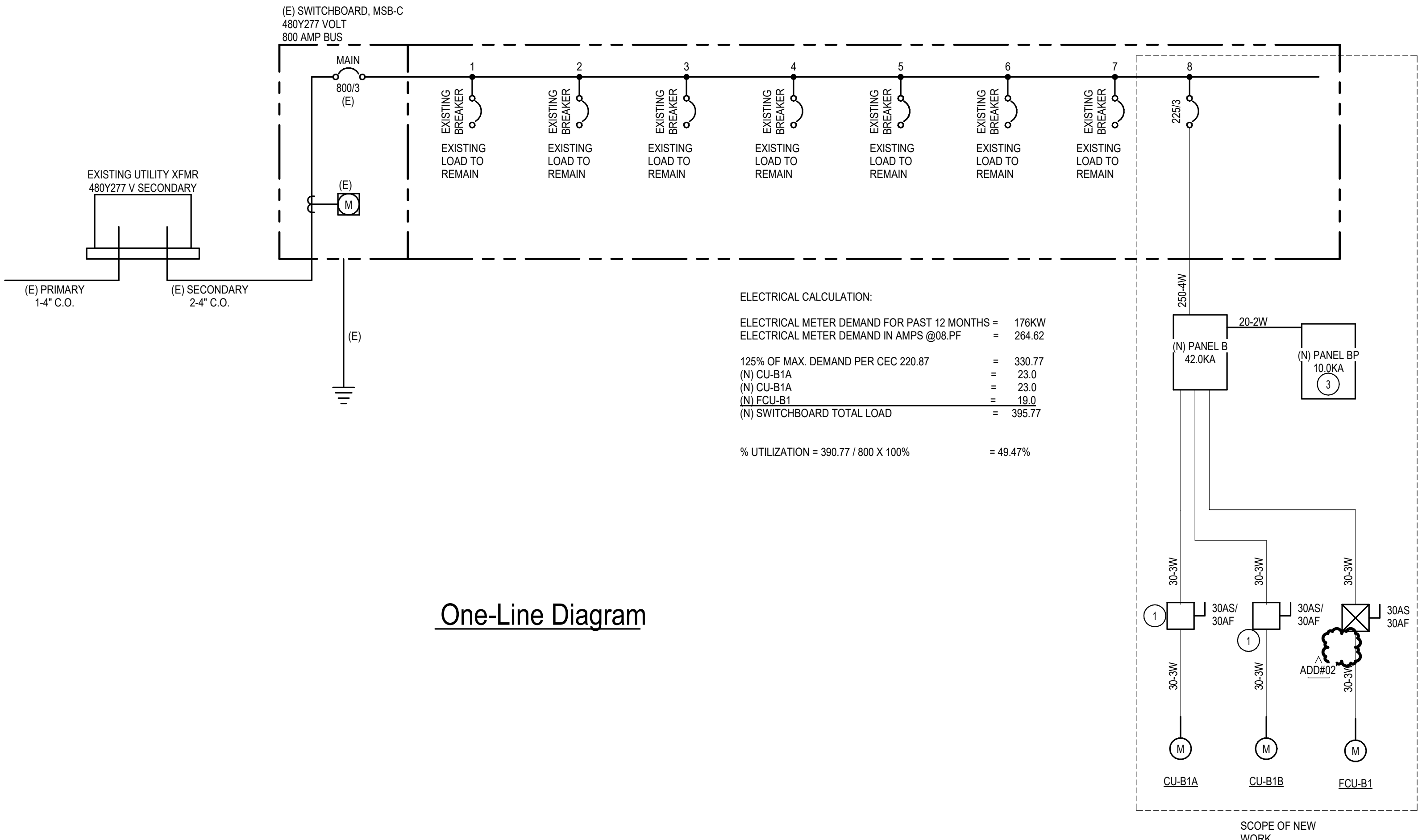
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PANEL: B														
LOCATION: MECHANICAL B113 BUS RATING: 225.0 A MAIN BREAKER: 225						VOLTS: 480Y/277 PHASES: 3 WIRES: 4 SCCR:			MOUNTING: SURFACE FED FROM: INTEGRAL SPD: Type 1 LUG ACCESSORIES: SEE ONE-LINE					
CKT	CIRCUIT DESCRIPTION	BKR TRIP	P	BKR TYPE	LOAD TYPE	PHASE A (VA)	PHASE B (VA)	PHASE C (VA)	LOAD TYPE	BKR TYPE	P	BKR TRIP	CIRCUIT DESCRIPTION	CKT
1						6,374								2
3	CU-B1A	30	3		M		6,374		6,374					4
5								6,374						6
7						6,374								8
9	CU-B1B	30	3		M		6,374		6,374					10
11								6,374						12
13						5,265								14
15	FCU-B1	30	3		M		5,265		5,265					16
17								5,265						18
19	PNL BP (MINI LOAD CTR)	15	2		R, M	100								20
21							0							22
23														24
25														26
27														28
29														30
TOTAL LOAD:						18113 VA	18013 VA	18013 VA						
TOTAL AMPS						65.4 A	65.0 A	65.0 A						
LOAD TYPE	LOAD DESCRIPTION	CONNECTED LOAD (VA)	DEMAND D.	ESTIMATED DEMAND (VA)	DEMAND FACTOR NOTES				BKR TYPE		PANEL TOTALS			
L	LIGHTING	0 VA	0.00%	0 VA	CONTINUOUS LOAD @ 125%				G = GFCI (5mA)					
R	RECEPTACLES	0 VA	0.00%	0 VA	FIRST 10KVA @ 100%, REMAINDER @ 50%				GP = GFCI (30mA)		CONNECTED LOAD: 54 kVA			
K	KITCHEN	0 VA	0.00%	0 VA	NON-DWELLING KITCHEN LOADS, NEC ART. 220				ST = SHUNT TRIP		ESTIMATED DEMAND: 59 kVA			
LM	LARGEST MOTOR	0 VA	0.00%	0 VA	LARGEST MOTOR, NEC ART. 430				LO = LOCK OUT		CONNECTED CURRENT: 65.1 A			
M	MOTOR	54140 VA	108.63%	58921 VA							EMD CURRENT: 70.9 A			
C	COOLING	0 VA	0.00%	0 VA										
H	HEATING	0 VA	0.00%	0 VA										
O	OTHER	0 VA	0.00%	0 VA										
Spare	SPARE	0 VA	0.00%	0 VA										
NOTES: APPROX. WEIGHT = 124 LBS														



### GENERAL SINGLE LINE NOTES

- OVERCURRENT DEVICES OF ENTIRE DISTRIBUTION SYSTEM SHALL MEET STATED FAULT CURRENT VALUES WITH FULLY RATED EQUIPMENT.
- CONDUCTOR LENGTHS INDICATED ON THE SINGLE LINE DIAGRAM ARE FOR FAULT CURRENT CALCULATIONS ONLY. ACTUAL LENGTH SHALL BE DETERMINED BY FIELD CONDITIONS AND ACTUAL ROUTES OF FEEDERS.
- REFER TO SWITCHBOARD SCHEDULES AND DISTRIBUTION PANEL SCHEDULES FOR ADDITIONAL REQUIREMENTS. WHERE A DISCREPANCY EXISTS BETWEEN EQUIPMENT ON THE SINGLE LINE DIAGRAM AND THE DETAILED SCHEDULES, THE ITEM OR ARRANGEMENT WITH BETTER QUALITY, GREATER QUANTITY, OR HIGHER COST SHALL BE USED.
- ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- REFER TO THE MOTOR AND SPECIAL CONNECTION SCHEDULE FOR ALL FEEDERS DESIGNATED "EQ".
- GROUNDING ELECTRODE CONDUCTORS SIZES ARE NOT INDICATED ON THE SINGLE LINE DIAGRAM ARE. REFER TO THE GROUNDING RISER DIAGRAM FOR CONNECTIONS AND CONDUCTOR SIZES.

### KEYNOTES

No.	DESCRIPTION
1	FUSED DISCONNECT AND FUSES TO BE PROVIDED UNDER DIVISION 26.
3	MINI LOAD CENTER PANELBOARD WITH 5KVA TRANSFORMER, EQUAL TO EATON P48G1150S18CUB OR APPROVED EQUAL.

FEEDER SCHEDULE - COPPER						
MARK (AMPS)	# SETS	Ø & N	GND	CONDUIT SIZE		
				MARK SUFFIX		
				-4W	-3W	-2W
15	1	12	12	3/4"	3/4"	3/4"
20	1	12	12	3/4"	3/4"	3/4"
25	1	10	10	3/4"	3/4"	3/4"
30	1	10	10	3/4"	3/4"	3/4"
35	1	8	10	3/4"	3/4"	3/4"
40	1	8	10	3/4"	3/4"	3/4"
45	1	6	10	1"	3/4"	3/4"
50	1	6	10	1"	3/4"	3/4"
60	1	4	10	1-1/4"	1"	3/4"
70	1	4	8	1-1/4"	1"	3/4"
80	3	3	8	1-1/4"	1-1/4"	1"
90	1	2	8	1-1/4"	1-1/4"	1"
100	1	1	8	1-1/2"	1-1/2"	1-1/4"
110	1	1	6	1-1/2"	1-1/2"	1-1/4"
125	1	1	6	1-1/2"	1-1/2"	1-1/4"
150	1	10	6	2"	1-1/2"	1-1/4"
175	1	20	6	2"	1-1/2"	1-1/4"
200	1	30	6	2"	2"	1-1/2"
225	1	40	4	2-1/2"	2"	1-1/2"
250	1	250	4	2-1/2"	2"	1-1/2"
300	1	350	4	3"	2-1/2"	2"
350	1	500	3	3-1/2"	3"	2-1/2"
400	1	600	3	3-1/2"	3"	2-1/2"
400	2	300	3	2"	2"	1-1/2"
450	2	400	2	2-1/2"	2"	1-1/2"
500	2	250	2	2-1/2"	2-1/2"	2"
600	2	350	1	3"	2-1/2"	2"
700	2	500	1/0	3-1/2"	3"	2-1/2"
800	2	600	1/0	3-1/2"	3"	2-1/2"
1000	3	400	2/0	3"	3"	2-1/2"
1200	3	600	3/0	3-1/2"	3-1/2"	3"
1800	4	600	4/0	3-1/2"	3-1/2"	3"
2000	5	600	250	4"	3-1/2"	3"
2500	6	600	350	4"	3-1/2"	3"
3000	8	500	400	3-1/2"	3"	2-1/2"
4000	10	600	500	4"	3-1/2"	3"
ABBREVIATIONS:						
Ø	PHASE					
N	NEUTRAL					
GND	EQUIPMENT GROUNDING CONDUCTOR					
-4W	FOUR WIRE + GROUND (3Ø N, GND)					
-3W	THREE WIRE + GROUND (3Ø GND or 2Ø N, GND)					
-2W	TWO WIRE + GROUND					
NOTES:						
1.	CONDUCTOR AMPACITIES ARE BASED ON NEC TABLE 310.15(B)(16).					
2.	CONDUIT SIZES ARE BASED ON A MAXIMUM FILL RATIO OF 40%.					
3.	SCHEDULE SHALL BE USED FOR FEEDERS AND BRANCH CIRCUITS WHERE APPLICABLE.					
4.	ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUNDING CONDUCTOR.					
5.	SCHEDULE IS VALID FOR TYPE THHN, THWN-2, AND XHHW-2 CONDUCTORS. SEE SPECIFICATIONS FOR CONDUCTOR TYPES REQUIRED.					
6.	SCHEDULE IS VALID FOR TYPE EMT, IMC, FMC, LPVC, HDPE, AND RMC-40 RACEWAYS. SEE SPECIFICATIONS FOR RACEWAY APPLICATIONS.					
7.	OPTIONAL CONFIGURATIONS (1 OR 2 SETS) ARE GIVEN FOR SOME SIZES.					
8.	NOT ALL SIZES USED.					

DISTRIBUTION PANEL: BP

LOCATION: MECHANICAL B113

VOLTAGE: 120/240V, 1Ø3W.

MAIN DEVICE: 40.0 A

AIC RATING:

BUS AMPS:

SPECIAL: 40

MAIN DEVICE

FRAME

POLES

FUSE

SPECIAL

DESCRIPTION/NAMEPLATE

40.0 A

SECTION NO. 1

CKT

FRAME

POLES

FUSE

LOAD

DESCRIPTION/NAMEPLATE

NOTES

1

10.0 A

1

10.0 A

100 VA

FIRE SMOKE DAMPER

2

400.0 A

1

20.0 A

0 VA

R

3

4

5

6

7

8

9

10

ROWLAND AVE. E.S. AC UNIT REPLACEMENT																								
EXISTING UNIT								NEW UNIT																NOTES
TAGS	ELECTRICAL						TAGS	DIRECT REPLACEMENT? Y/N	CFM	ELECTRICAL						POWER EXHAUST								
	V/PH	MCA	FLA	MOCP	PANEL/ CKT#	FEEDER SIZE				DISCONNECT	V-PH	MCA	MOCP	PANEL/ CKT#	DISCONNECT	REQUIRED?	Model#	MCA	MOCP	FEEDER SIZE	DISCONNECT			
NA	NA	NA	NA	NA	NA	NA	NA	CU-B1A (BLDG. B)	N		460/3	23	30	B-1,3,5	30A (30A FUSE)	NO						NA		
NA	NA	NA	NA	NA	NA	NA	NA	CU-B1B (BLDG. B)	N		460/3	23	30	B-7,9,11	30A (30A FUSE)	NO						NA		
NA	NA	NA	NA	NA	NA	NA	NA	FCU-B1 (BLDG. B)	N	8,000	460/3	19	30	B-13,15,17	30A (30A FUSE)	NO						NA		
CU/FCU-C1 (BLDG C)	240/1	22.875	18.3	30	LH-14,16	2#10, 1#10GND-0.75°C	30	RTU-C1 (BLDG C)	Y	1,200	240/1	26	30	LH-14,16	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-C2 (BLDG C)	240/1	22.875	18.3	30	LH-18,20	2#10, 1#10GND-0.75°C	30	RTU-C2 (BLDG C)	Y	1,200	240/1	26	30	LH-18,20	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-D1 (BLDG D)	240/1	22.875	18.3	30	LH-2,4	2#10, 1#10GND-0.75°C	30	RTU-D1 (BLDG D)	Y	1,200	240/1	26	30	LH-2,4	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-D2 (BLDG D)	240/1	22.875	18.3	30	LH-6,8	2#10, 1#10GND-0.75°C	30	RTU-D2 (BLDG D)	Y	1,200	240/1	26	30	LH-6,8	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-D3 (BLDG D)	240/1	22.875	18.3	30	LH-10,12	2#10, 1#10GND-0.75°C	30	RTU-D3 (BLDG D)	Y	1,200	240/1	26	30	LH-10,12	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-F1 (BLDG F)	240/1	22.875	18.3	30	LH-13,15	2#10, 1#10GND-0.75°C	30	RTU-F1 (BLDG F)	Y	1,200	240/1	26	30	LH-13,15	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-F2 (BLDG F)	240/1	22.875	18.3	30	LH-17,19	2#10, 1#10GND-0.75°C	30	RTU-F2 (BLDG F)	Y	1,200	240/1	26	30	LH-17,19	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-F3 (BLDG F)	240/1	22.875	18.3	30	LH-21,23	2#10, 1#10GND-0.75°C	30	RTU-F3 (BLDG F)	Y	1,200	240/1	26	30	LH-21,23	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-H1 (BLDG H)	240/1	22.875	18.3	30	LH-1,3	2#10, 1#10GND-0.75°C	30	RTU-H1 (BLDG H)	Y	1,200	240/1	26	30	LH-1,3	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-H2 (BLDG H)	240/1	22.875	18.3	30	LH-5,7	2#10, 1#10GND-0.75°C	30	RTU-H2 (BLDG H)	Y	1,200	240/1	26	30	LH-5,7	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-H3 (BLDG H)	240/1	22.875	18.3	30	LH-9,11	2#10, 1#10GND-0.75°C	30	RTU-H3 (BLDG H)	Y	1,200	240/1	26	30	LH-9,11	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-I1 (BLDG I)	240/1	22.875	18.3	30	LF-1,3	2#10, 1#10GND-0.75°C	30	RTU-I1 (BLDG I)	Y	1,200	240/1	26	30	LF-1,3	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-I2 (BLDG I)	240/1	22.875	18.3	30	LF-5,7	2#10, 1#10GND-0.75°C	30	RTU-I2 (BLDG I)	Y	1,200	240/1	26	30	LF-5,7	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-I3 (BLDG I)	240/1	22.875	18.3	30	LF-9,11	2#10, 1#10GND-0.75°C	30	RTU-I3 (BLDG I)	Y	1,200	240/1	26	30	LF-9,11	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-J1 (BLDG J)	240/1	22.875	18.3	30	LF-13,15	2#10, 1#10GND-0.75°C	30	RTU-J1 (BLDG J)	Y	1,200	240/1	26	30	LF-13,15	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-J2 (BLDG J)	240/1	22.875	18.3	30	LF-17,19	2#10, 1#10GND-0.75°C	30	RTU-J2 (BLDG J)	Y	1,200	240/1	26	30	LF-17,19	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-I3 (BLDG J)	240/1	22.875	18.3	30	LF-21,23	2#10, 1#10GND-0.75°C	30	RTU-J3 (BLDG J)	Y	1,200	240/1	26	30	LF-21,23	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-K1 (BLDG K)	240/1	22.875	18.3	30	LF-2,4	2#10, 1#10GND-0.75°C	30	RTU-K1 (BLDG K)	Y	1,200	240/1	26	30	LF-2,4	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-K2 (BLDG K)	240/1	22.875	18.3	30	LF-6,8	2#10, 1#10GND-0.75°C	30	RTU-K2 (BLDG K)	Y	1,200	240/1	26	30	LF-6,8	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
CU/FCU-K3 (BLDG K)	208/1	22.875	18.3	30	LF-10,12	2#10, 1#10GND-0.75°C	30	RTU-K3 (BLDG K)	Y	1,200	240/1	26	30	LF-10,12	30A (30A FUSE)	YES	PCD-SRT12CA	7.1	12.8	2#10, 1#10GND-0.75°C	30A (20A FUSE)			
GENERAL NOTES:																								
1	CONTRACTOR TO FIELD VERIFY CIRCUITING AND FEEDER INFORMATION PRIOR TO EQUIPMENT REMOVAL. CONTRACTOR TO PROVIDE REQUIRED ADJUSTMENTS AS NEEDED.																							
2	PROVIDE MECHANICAL UNIT WITH INTEGRAL CONVENIENCE RECEPTACLE. FEED FROM SPARE 20A/1P BREAKER IN NEAREST PANEL. ROUTE 2#12-1#12GND IN 1/2" EMT CONDUIT FROM PANEL TO RECEPTACLE.																							
	POWER NO MORE THAN 10 RECEPTACLES ON ONE CIRCUIT. FIELD VERIFY EXACT LOCATION OF NEAREST PANEL AND ROUTE OF NEW CIRCUIT FROM PANEL TO UNIT RECEPTACLE.																							
3	CONTRACTOR TO DEMOLISH POWER CONNECTION FROM CONDENSING UNITS, FAN COIL UNITS AND CONDENSATE PUMPS. DEMOLITION TO CONSIST OF REMOVAL OF POWER CONNECTION, CABLING, AND CONDUIT BACK TO SOURCE UNLESS NOTED OTHERWISE.																							
4	FIELD COORDINATE EQUIPMENT MANUFACTURER FOR FAULT CURRENT LIMITING FUSE TYPES																							