



## PRIMARY/SECONDARY DISTRIBUTION SYSTEM

PANEL MD1, 120/208V, 3 PHASE, 4 WIRE, 1000A MCB, 100% RATED, 100KAIC, I-LINE, SQUARE D CO. OR EQUAL

CIR#	DESCRIPTION	TYPE	TRIP	POLE	VOLT	PHASE
1,3,5	PANEL HP1	400	400 ✓	3	208	3
2,4,6	CHILLER	200	150 ✓	3	208	3
7,9,11	EXIST. BOARD	400	400 ✓	3	208	3
8,10,12	SPARE	100	100	3	208	3
13,15,17	SPARE (FUTURE)	100				
14,16,18	SPARE (FUTURE)	100				
19,21,23	SPARE (FUTURE)	100				
20,22,24	SPARE (FUTURE)	100				

BRANCH BREAKERS SHALL BE A MINIMUM OF 65KAIC.

PANEL HP1 120/208V, 3 PHASE, 4 WIRE, 400A MLO, NQOD, SURFACE, SQUARE D CO. OR EQUAL

CIR#	DESCRIPTION	TYPE	TRIP	POLE	VOLT	PHASE
1,3,5	FC1	QOB	20	3	208	3
2,4,6	FC2	QOB	20	3	208	3
7,9,11	FC3	QOB	20	3	208	3
8,10,12	FC4	QOB	20	3	208	3
13	EF1,4,5	QOB	20	1	120	1
14	EF2,3,6	QOB	20	1	120	1
15,17,19	P1	QOB	20	3	208	3
16,18,20	P2	QOB	20	3	208	3
21,23,25	HMF-1	QOB	30 ✓	3	208	3
22,24,26	HMF-2	QOB	40 ✓	3	208	3
27,29,31	HMF-3	QOB	30 ✓	3	208	3
28,30,32	HMF-4	QOB	30 ✓	3	208	3
33,35,37	CP1	QOB	20	3	208	3
34	SPARE	QOB	20	1	120	1
36	SPARE	QOB	20	1	120	1
38-42	SPARE (FUTURE)	QOB	20			

### PHASING PLAN

1. INSTALL NEW TRANSFORMER AND DUCT BANK.
2. INSTALL NEW MD1 AND RECONNECT TO EXISTING 400 AMPERE PANEL.
3. DISCONNECT THE SECONDARY FEEDS TO EXISTING 400 AMPERE DISTRIBUTION BOARD AND REFEED FROM NEW PANEL MD1.
4. DISCONNECT AND REMOVE EXISTING PRIMARY SYSTEM.

### GENERAL NOTE:

ALL SCHEDULED SHUTDOWNS SHALL BE LIMITED TO LESS THAN 2 HOURS IN LENGTH. ANY SERVICE SHUTDOWN, INCLUDING MODIFICATIONS TO THE PRIMARY SERVICE, IS CONSIDERED A MAJOR UTILITY INTERRUPTION AND IS SUBJECT TO PROVISIONS OF SECTION 01010, PARAGRAPH 1.5.K.4.



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DESIGNER/MECHANICAL ENGINEER  
  
ARA ENGINEERING ASSOCIATES, INC.  
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Drawing Title  
ELECTRICAL DETAILS  
Approved: Division Chief  
Approved: Service Director

Project Title  
AIR QUALITY IMPROVEMENTS  
WARD 9  
Building Number  
9  
Checked  
JDS  
Drawn  
JDS  
Location  
NORTHAMPTON, MASSACHUSETTS

Date  
07-15-93  
Project No.  
631-91-105  
Drawing No.  
59-24  
E-3  
Dwg. 12 of 12

Veterans  
Administration