



ELECTRICAL LOWER MECH ROOM REVISED
SCALE: APPROXIMATELY 1:50

MECHANICAL EQUIPMENT SCHEDULE									
EQ#	DESCRIPTION	LOCATION	LOAD	VOLT/PHASE	CCT. NO.	BREAKER	FEEDER	STARTER TYPE	REMARKS
B-1	BOILER	MECH ROOM	16FLA	120V/1PHASE	D-10	1P-20A	2#12 AWG Cu + GND IN 21mmC	-	
B-2	BOILER	MECH ROOM	16FLA	120V/1PHASE	E-19	1P-20A	2#12 AWG Cu + GND IN 21mmC	-	
P-1	HEAT PUMP CIRCULATION PUMP	MECH ROOM	5.0 HP	208V/3PHASE	MCC	3P-30A	3#10 AWG Cu + GND IN 21mmC	VFD	REPLACE FUSED DISCONNECT WITHIN MCC WITH NEW, CONNECT TO NEW VFD
P-2	HEAT PUMP CIRCULATION PUMP	MECH ROOM	5.0 HP	208V/3PHASE	MCC	3P-30A	3#10 AWG Cu + GND IN 21mmC	VFD	REPLACE FUSED DISCONNECT WITHIN MCC WITH NEW, CONNECT TO NEW VFD
P-5	AH-1 COIL CIRCULATION PUMP	MECH ROOM	FRAC. HP	208V/1PHASE	MCC	2P-20A	2#12 AWG Cu + GND IN 21mmC	MAG.	REPLACE FUSED DISCONNECT WITHIN MCC WITH NEW, CONNECT TO NEW VFD
P-6	AH-2 COIL CIRCULATION PUMP	MECH ROOM	FRAC. HP	208V/1PHASE	MCC	2P-20A	2#12 AWG Cu + GND IN 21mmC	MAG.	REPLACE FUSED DISCONNECT WITHIN MCC WITH NEW, CONNECT TO NEW VFD
REMARKS:									



PUMPS P-5 AND P-6 DISCONNECTS IN MCC

PHOTO #1



PUMP P-1 DISCONNECT IN MCC

PHOTO #2



EXISTING BOILER #2

PHOTO #3

KEYNOTES:

- SUPPLY AND INSTALL ELECTRICAL CONNECTIONS TO NEW BOILER.
- DISCONNECT EXISTING PUMP P-6 AND SUPPLY AND INSTALL ELECTRICAL CONNECTIONS TO NEW AH-2 HEATING COIL PUMP P-6.
- DISCONNECT EXISTING PUMPS P-1 & P-2 AND SUPPLY AND INSTALL ELECTRICAL CONNECTIONS TO NEW HEATING WATER PUMPS P-1 & P-2. EACH PUMPS VFD TO BE ON WALL BEHIND PUMP.
- DISCONNECT EXISTING PUMP P-5 AND SUPPLY AND INSTALL ELECTRICAL CONNECTIONS TO NEW AH-2 HEATING COIL PUMP P-5.
- RELOCATE EXISTING DHWR PUMP EX-P-3 TO THIS LOCATION. RE-ROUTE EXISTING DOMESTIC HOT WATER RETURN PIPING TO SUITE. REMOVE ABANDONED SUPPORTS AND HANGERS.
- EXISTING MCC. REPLACE EXISTING DISCONNECTS FOR PUMPS P-1, P-2, P-5, AND P-6 IN HERE. MCC IS A KLOCKNER MOELLER SERIES 200, 208V 3PHASE MODEL.
- EXISTING BOILERS ARE FED FROM PANEL D CIRCUIT 10. DISCONNECT EXISTING BOILERS AND RECONNECT NEW TO BOILER B-1 WITH A NEW 1P-20A CIRCUIT FROM THIS PANEL.
- SUPPLY AND INSTALL A NEW 1P-20A BREAKER IN SPARE SPACE IN PANEL E FOR BOILER B-2.

GENERAL NOTES:

- COORDINATE LOCATIONS OF ALL EQUIPMENT WITH THE MECHANICAL CONTRACTOR. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
- CONFIRM SIZES OF ALL WIRING AND FUSING WITH SHOP DRAWINGS PRIOR TO INSTALLATION. ALLOW FOR THE UPSIZE IN WIRING FOR P-1 AND P-2. CONFIRM ONSITE IF THIS IS REQUIRED.
- THE OWNER OR A REPRESENTATIVE(S) SHALL HAVE ACCESS TO THE WORK IN PROGRESS AT ALL TIMES AND SHALL RESERVE THE RIGHT TO INSPECT THIS WORK AT ANY TIME FOR COMPLIANCE WITH ALL REQUIREMENTS OF THE SPECIFICATION. HE OR SHE SHALL ALSO RESERVE THE RIGHT TO APPROVE EACH PHASE OF THE WORK BEFORE FURTHER WORK MAY BE DONE. TO HALT ALL WORK DEEMED TO BE IMPROPER OR NOT IN COMPLIANCE WITH THE PROJECT, AND TO REQUIRE THAT THE CONTRACTOR PROMPTLY CORRECT ALL IMPROPER PRACTICES AND DEFECTIVE OR DEFICIENT WORK.

REVISIONS

NO.	DESCRIPTION	YYYYMMDD	BY	APP.
0	ISSUED FOR TENDER	2023.03.08	BR	BR

DRAWING NO.

DESCRIPTION

REFERENCE DRAWINGS

FOR BEST PLOTTING RESULTS, BE SURE TO USE WILLIAMS ENGINEERING CANADA AUTOCAD PLOT CONFIGURATION FILES AVAILABLE FROM: www.williamsengineering.com

LEGEND

SECTION #
A-001
SOURCE /
REFERENCE DWG.

DETAIL #
E-001
SOURCE /
REFERENCE DWG.

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DWG. TITLE:

ELECTRICAL
REVISION PLAN
AND PHOTOS

DWN. BY: AWM

DES. BY: AWM/OK

PROJ. MGR.: OK

PEER REVIEW: BR

DATE: (YY-MM-DD)
2023.03.08

SCALE: AS SHOWN

CLIENT PROJ. #

WE PROJ. #
0046078.01

DWG. #
E-1

REV
2

REV
0

