



**NEW CHILLER LAYOUT  
EXISTING MECHANICAL ROOM**

1  
H102 SCALE: 1:50

**CONSTRUCTION NOTES:**

1. SUPPLY AND INSTALL NEW CHILLER CH-1A AND CH-1B.
2. SUPPLY AND INSTALL NEW COOLING TOWER.
3. SAND AND REBUFF EXISTING COOLING TOWER STAND.
4. SUPPLY AND INSTALL NEW PUMPS P-3, P-4, P-5, AND P-6.
5. SUPPLY AND INSTALL NEW JOHNSON CONTROL SYSTEM OR THE CHILLER SYSTEM. INTEGRATE WITH EXISTING BMS.
6. CONNECT BOTH NEW CHILLERS TO EXISTING CHILLER VENT RELIEF. USE MECHANICAL GROOVED COUPLINGS.
7. SUPPLY AND CONNECT TO EXISTING CHILLED AND CONDENSED WATER PIPING AND HOT WATER SUPPLY AND RETURN PIPING USING MECHANICAL GROOVED COUPLINGS.
8. INSULATE ALL NEW CHILLED AND RECLAIM WATER PIPING.
9. SUPPLY AND INSTALL NEW FEEDER TANK AND CHEMICAL PUMP.
10. SUPPLY AND INSTALL NEW CHEMICAL FEEDER CONTROLS.
11. SUPPLY AND INSTALL NEW MAKEUP WATER PIPING FROM EXISTING MAKEUP WATER SUPPLY LINE TO CHEMICAL FEEDER SYSTEM.
12. SUPPLY AND INSTALL NEW CHEMICAL FEED PIPING FROM EXISTING LINE TO THE NEW SYSTEM.

EQUIPMENT LEGEND		
ITEM	SYMBOL	REMARKS
BOILER	B-#	
CHILLER	CH-#	
PUMP	P-#	

PIPING LINE TYPES		
ITEM	SYMBOL	REMARKS
NATURAL GAS		
REHEAT WATER SUPPLY		
REHEAT WATER RETURN		
CHILLED WATER RETURN	CHWR	
CHILLED WATER SUPPLY	CHWS	
CONDENSING WATER SUPPLY/RETURN		
LIGHT LINE		EXISTING TO REMAIN
DARK LINE		NEW



SEAL



Revision	Description	Date
5		
4		
3		
2		
1		
0	ISSUED FOR TENDER	2021-08-20

Client: \_\_\_\_\_ client

**PUBLIC WORKS & GOVERNMENT SERVICES**

269 MAIN STREET SUITE 310  
WINNIPEG, MB. R3C 1B3

Project title: **MORDEN, MB. R6M 1Y5  
101 RTE 100 #100  
MORDEN RESEARCH & DEVELOPMENT CENTRE**

**AAFC MRDC: CHILLER  
& BOILER UPGRADE  
(CHILLER SCOPE ONLY)**

Designed by: LL Conçu par

Drawn by: NB Dessiné par

Approved by: JKN Approuvé par

IPWSG Project Manager / Administrateur de Projets IPSGC  
**OWEN VAN WALLEGHEM**

Drawing title: **MECHANICAL PLAN  
MAIN FLOOR  
MECHANICAL ROOM**