

**NEW CHILLER LAYOUT  
EXISTING MECHANICAL ROOM**

**CONSTRUCTION NOTES:**

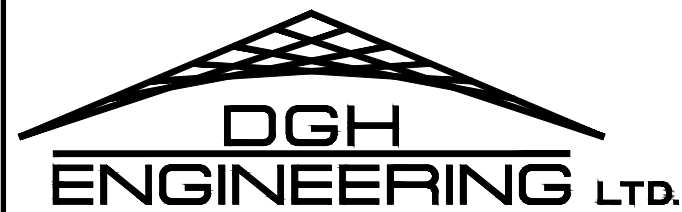
- SUPPLY AND INSTALL NEW CHILLER CH-1A AND CH-1B.
- SUPPLY AND INSTALL NEW COOLING TOWER.
- SAND AND REBUFF EXISTING COOLING TOWER STAND.
- SUPPLY AND INSTALL NEW PUMPS P-3, P-4, P-5, AND P-6.
- SUPPLY AND INSTALL NEW JOHNSON CONTROL SYSTEM OR THE CHILLER SYSTEM. INTEGRATE WITH EXISTING BMS.
- CONNECT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



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DGH Engineering Ltd.

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0	ISSUED FOR TENDER	2021-08-20
Revision	Description	Date
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**

Drawn by  
**NB**

Approved by  
**JKN**

PM/SGC Project Manager  
**OWEN VAN WALLEGHEM**

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

Project no./No. du projet  
**R.111908**

Drawing no./No. du dessin  
**H102**

Revision no.  
**00**