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MECHANICAL:

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AES ENGINEERING #300-1815 BLANSHARD ST. VICTORIA, BC V8T 5A4 TEL: (250) 381 6811

STRUCTURAL:

HEROLD ENGINEERING LIMITED 1051 VANCOUVER ST. VICTORIA, BC V8V 4T6 TEL: (250) 590 4875

DRAWING INDEX:

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CERTIFICATE OF RECORD DRAWINGS

WE, FRASER VALLEY REFRIGERATION HEREBY CERTIFY THAT THE SET OF RECORD DRAWINGS ATTACHED HERETO, COMPRISED OF 7 SHEETS, IS A COMPLETE AND TOTAL RECORD OF THE BUILDING AS CONSTRUCTED. WE FURTHER CERTIFY THAT THE DRAWINGS SHOW ACCURATELY ALL MECHANICAL SERVICES. EXPOSED OR HIDDEN AND THAT THE OWNER MAY FULLY RELY ON THEIR ACCURACY IN ANY FUTURE CONTEMPLATED REPAIRS, MODIFICATIONS OR ADDITIONS TO THIS WORK.

CONTRACTOR:



PROJECT STATUS:

RECORD DRAWING

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ARCHIE BROWNING CHILLER **REPLACEMENT**

TOWNSHIP OF ESQUIMALT

COVER SHEET

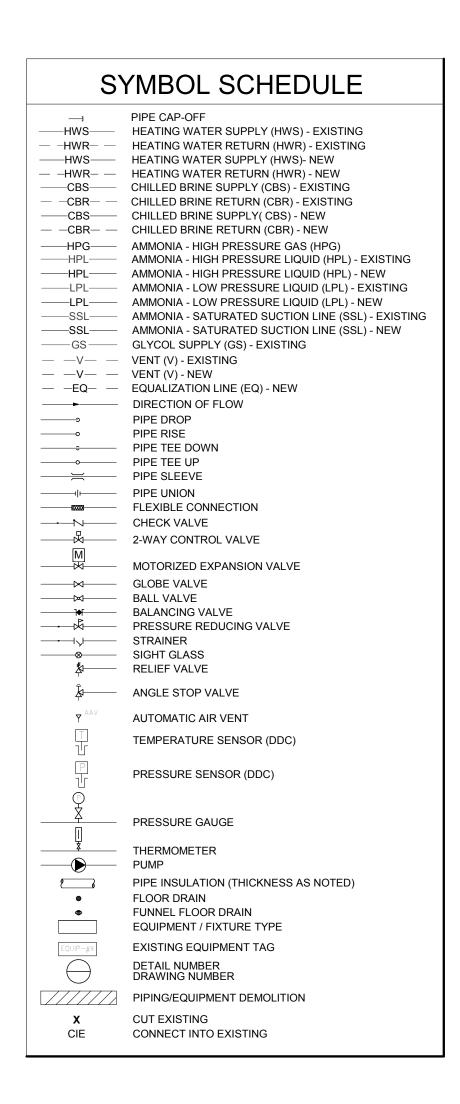
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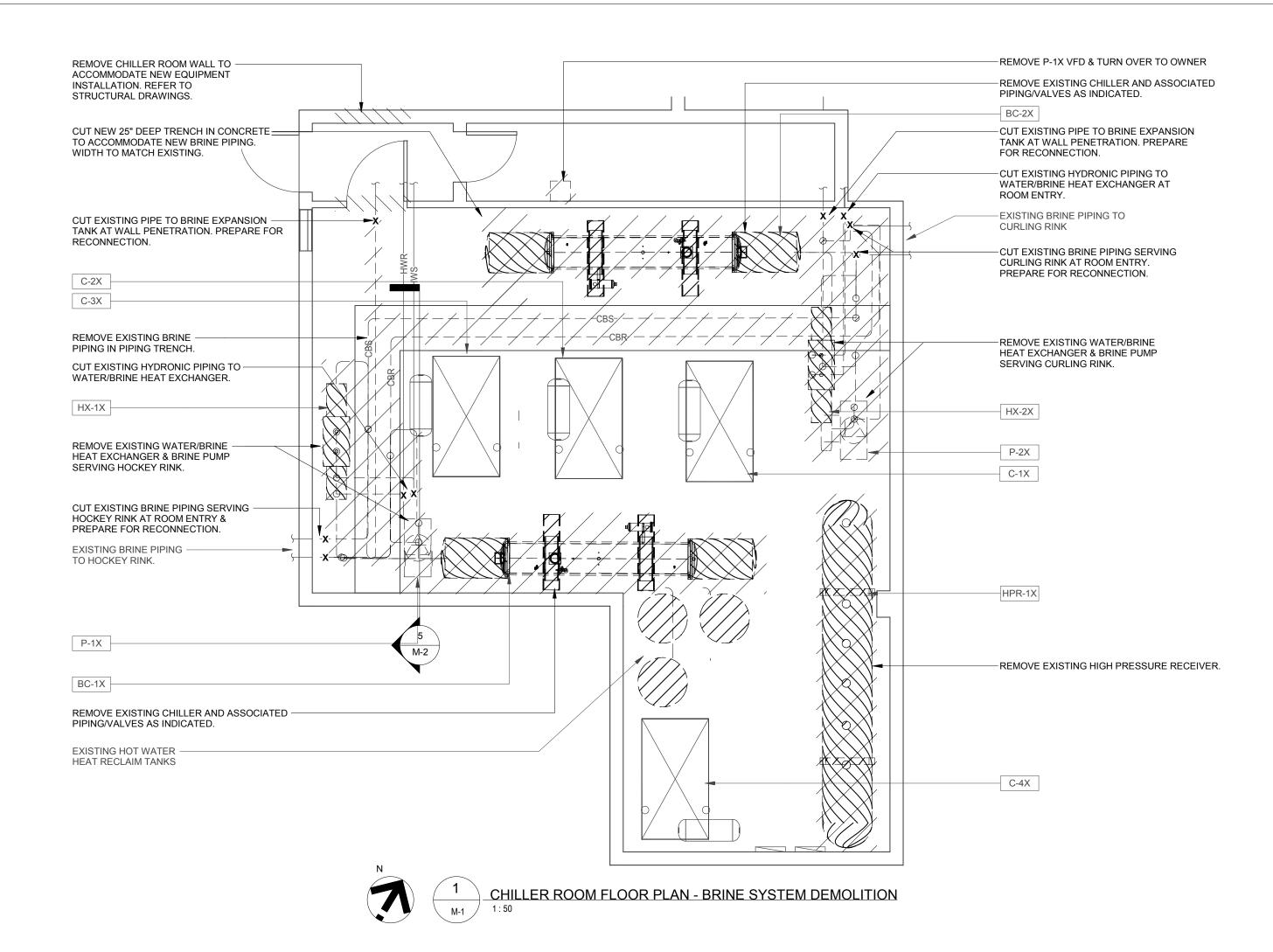
18080-S DRAWN: SL/RB DESIGNED: KH CHECKED: KH

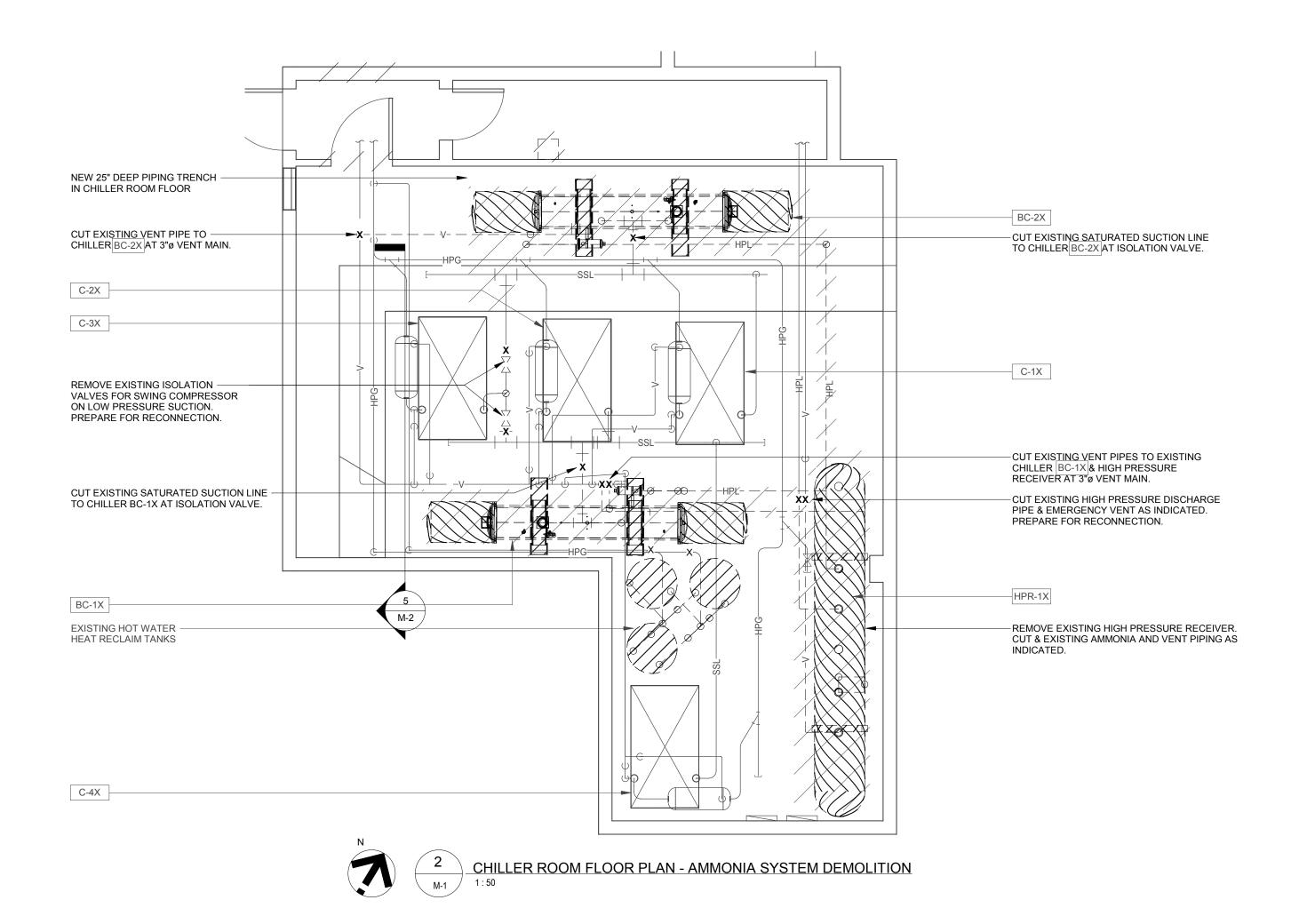
DATE: 01 Feb 19 SCALE:

DRAWING NUMBER:

M-0

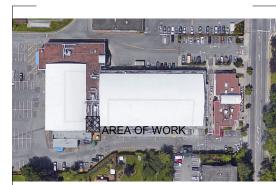






No. DATE DESCRIPTION BY
1 09MAR18 ISSUED FOR TENDER KH

KEYPLAN:



CLIENT:



SEAL:

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RECORD DRAWING

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ARCHIE BROWNING CHILLER REPLACEMENT

TOWNSHIP OF

CLIENT:

PROJECT TITLE:

ESQUIMALT

CHILLER ROOM
DEMOLITION

PROJECT NUMBER: 18080-S

DRAWN: SL
DESIGNED: KH
CHECKED: KH
DATE: 01 Feb 19

CHECKED: KH

DATE: 01 Feb 19

SCALE: As indicated

DRAWING NUMBER:

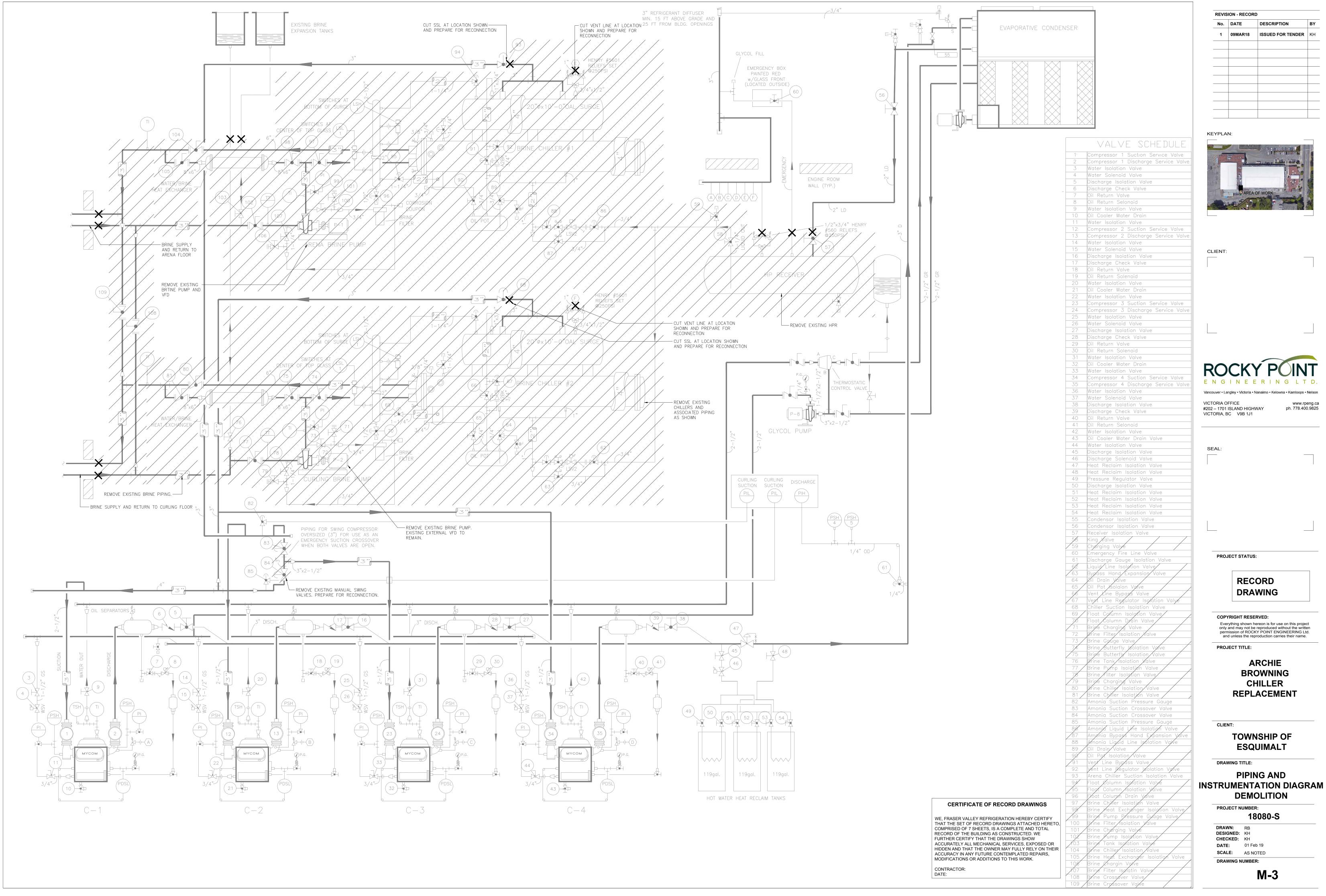
MBER:

NA_1

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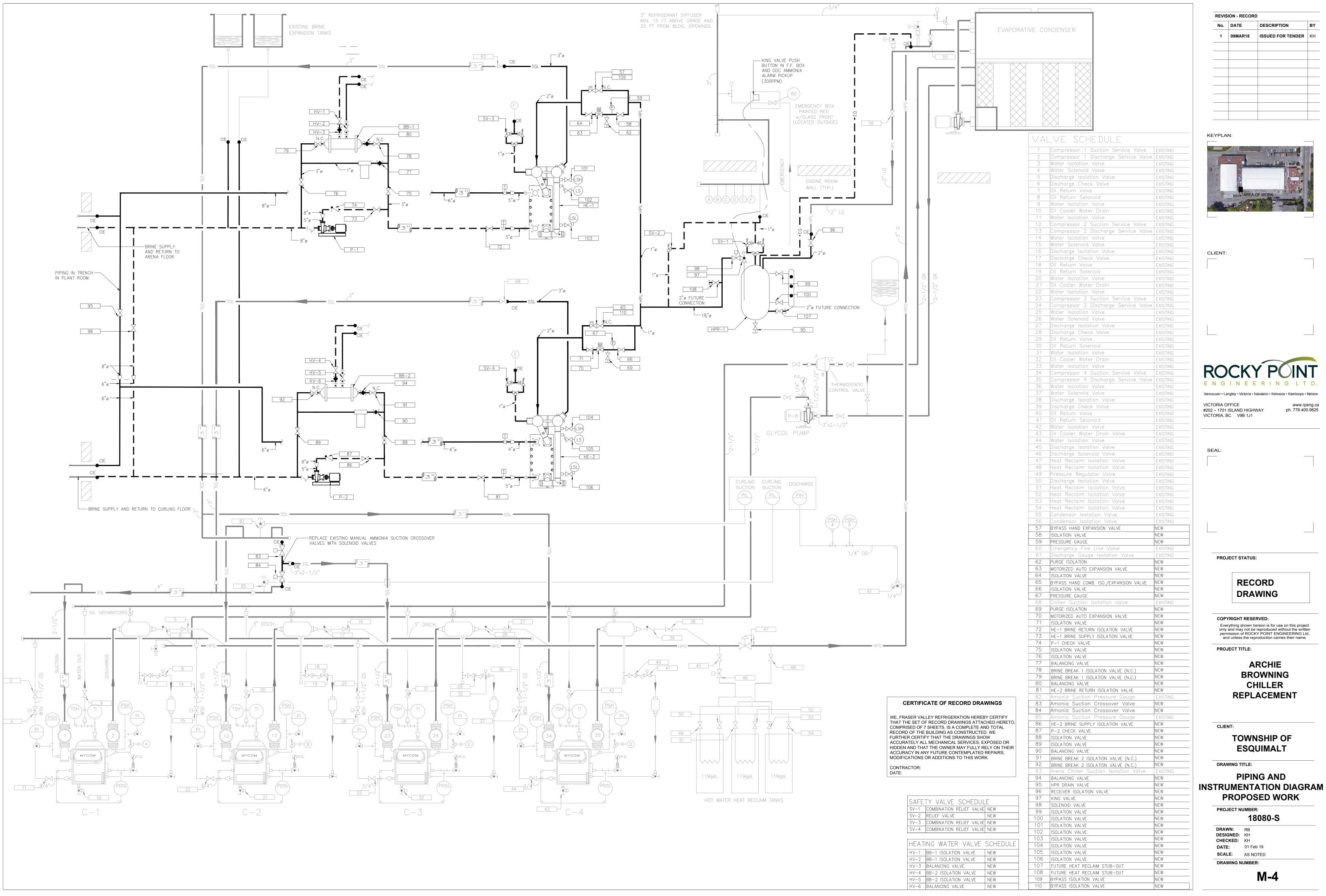
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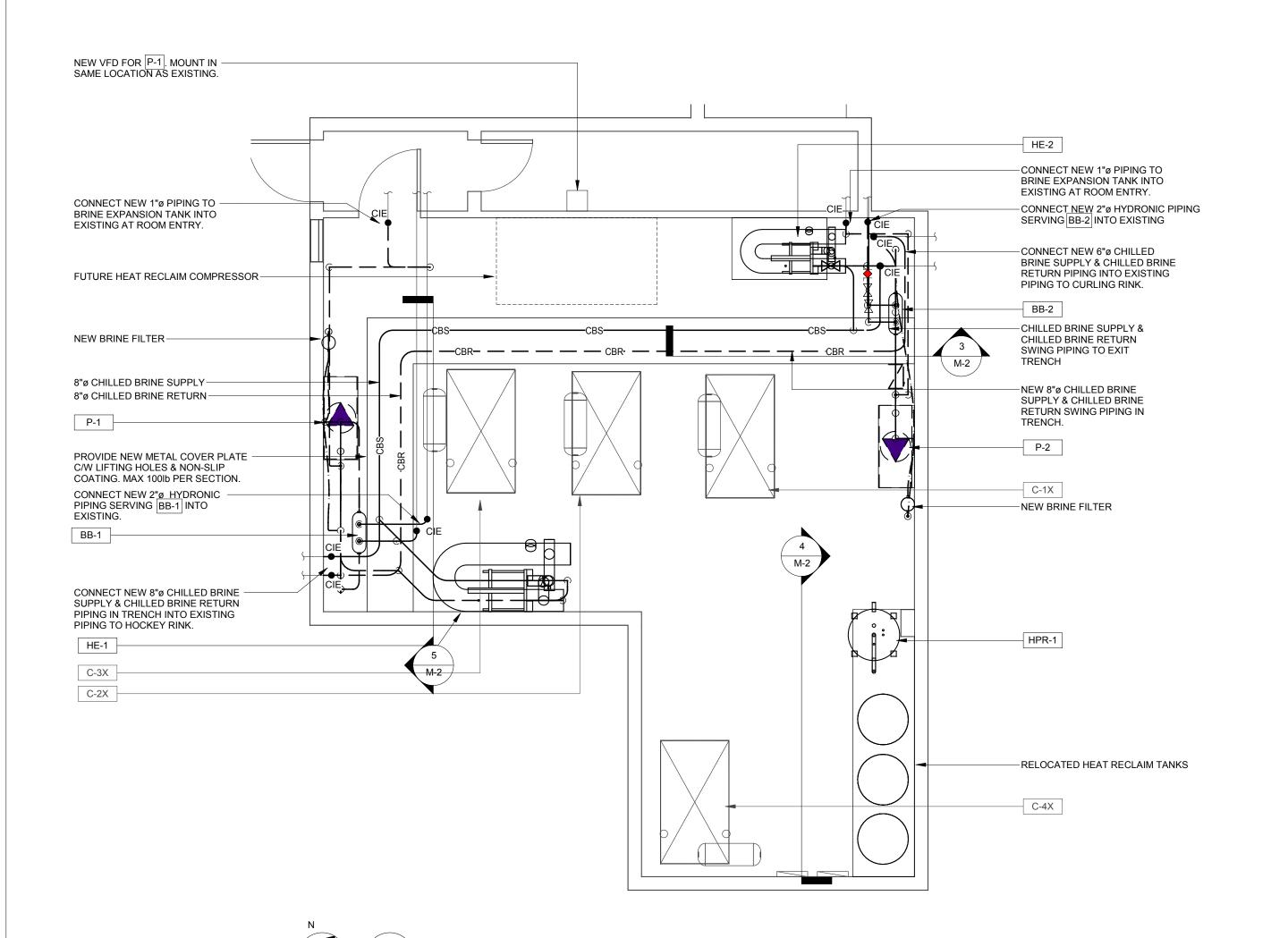


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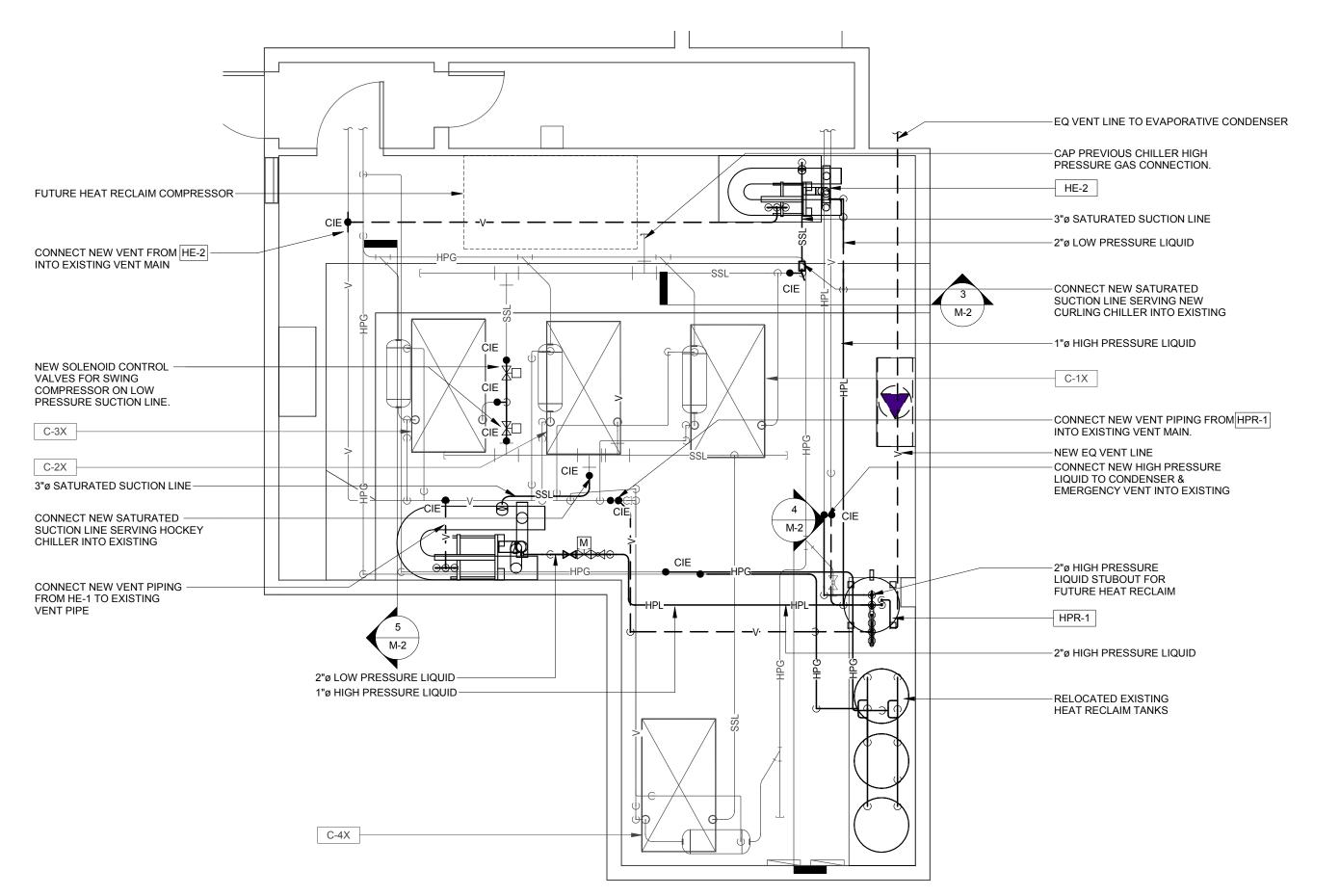


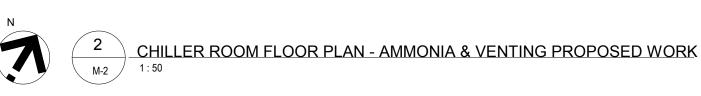
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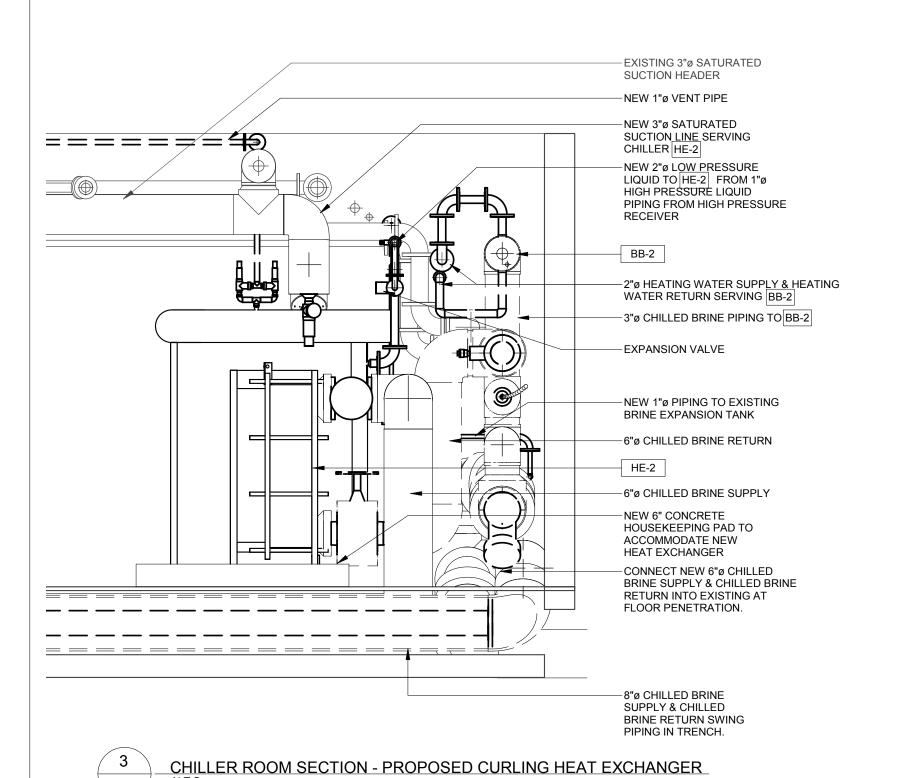
CHILLER ROOM FLOOR PLAN - BRINE SYSTEM PROPOSED WORK

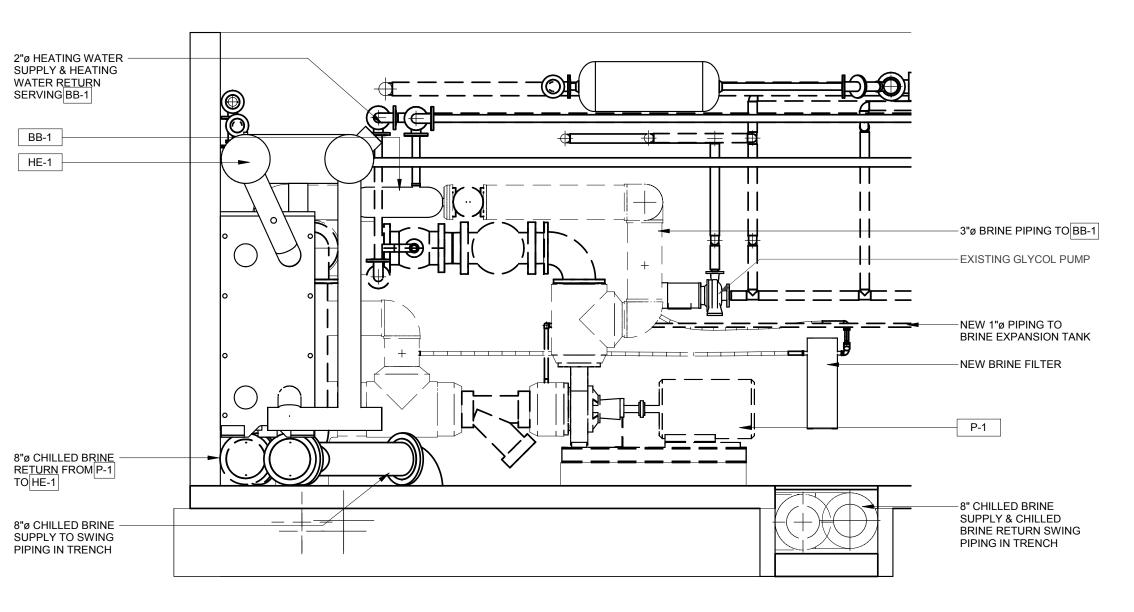


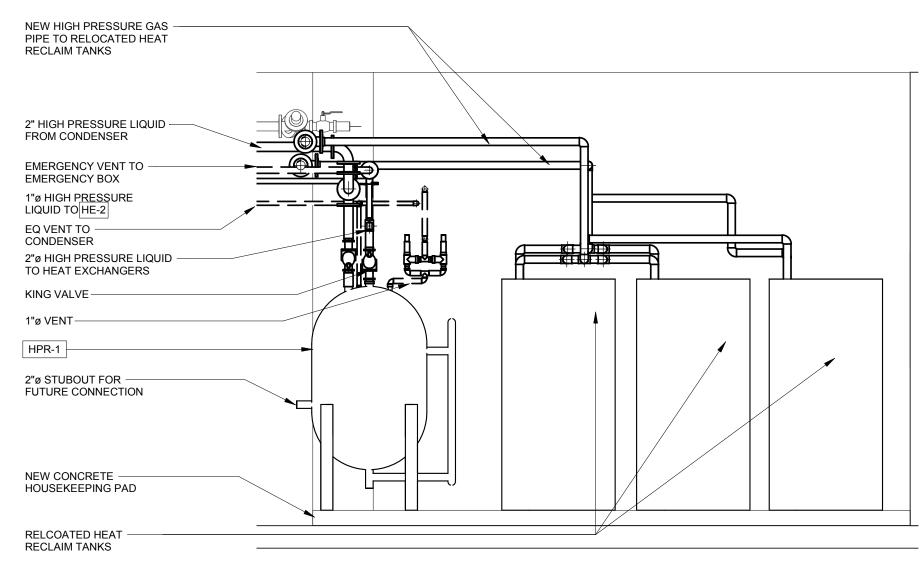


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CONTRACTOR: DATE:







5 SECTION - PROPOSED HOCKEY HEAT EXCHANGER N.T.S.

PROPOSED HIGH PRESSURE RECEIVER
N.T.S.

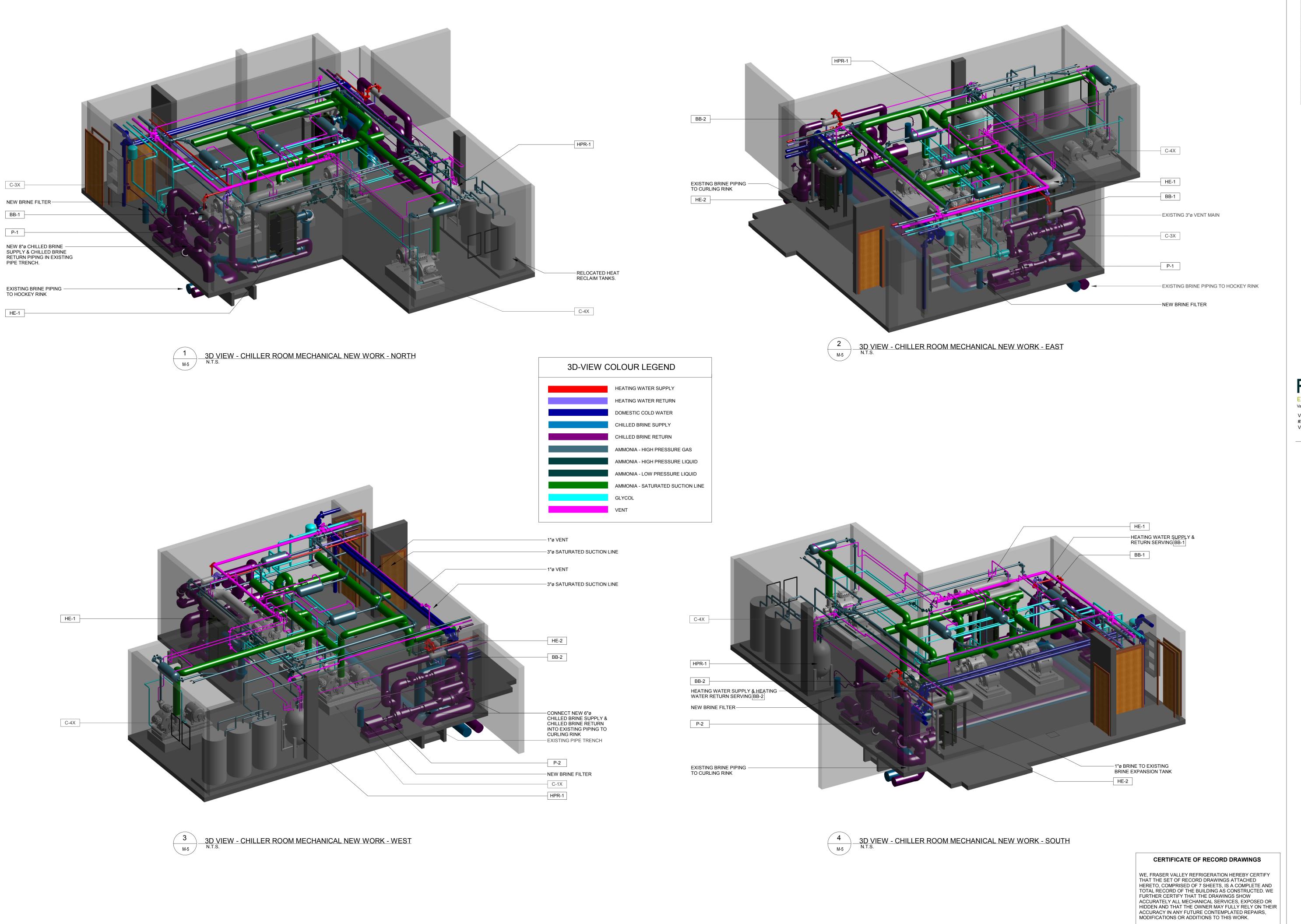
REVISION - RECORD No. DATE DESCRIPTION 09MAR18 ISSUED FOR TENDER KH KEYPLAN: CLIENT: Vancouver • Langley • Victoria • Nanaimo • Kelowna • Kamloops • Nelson VICTORIA OFFICE #202 - 1701 ISLAND HIGHWAY ph. 778.400.9825 VICTORIA, BC V9B 1J1 SEAL: PROJECT STATUS: RECORD **DRAWING** COPYRIGHT RESERVED: Everything shown hereon is for use on this project only and may not be reproduced without the written permission of ROCKY POINT ENGINEERING Ltd. and unless the reproduction carries their name. PROJECT TITLE: **ARCHIE BROWNING** CHILLER REPLACEMENT CLIENT: **TOWNSHIP OF ESQUIMALT**

CHILLER ROOM
PROPOSED WORK

PROJECT NUMBER: 18080-S

DRAWN: SL
DESIGNED: KH
CHECKED: KH
DATE: 01 Feb 19
SCALE: As indicated

MBER: **M-2**



REVISION - RECORD No. DATE DESCRIPTION 09MAR18 ISSUED FOR TENDER KH

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PROJECT TITLE:

ARCHIE BROWNING CHILLER **REPLACEMENT**

CLIENT: **TOWNSHIP OF ESQUIMALT**

DRAWING TITLE: **CHILLER ROOM 3D VIEWS**

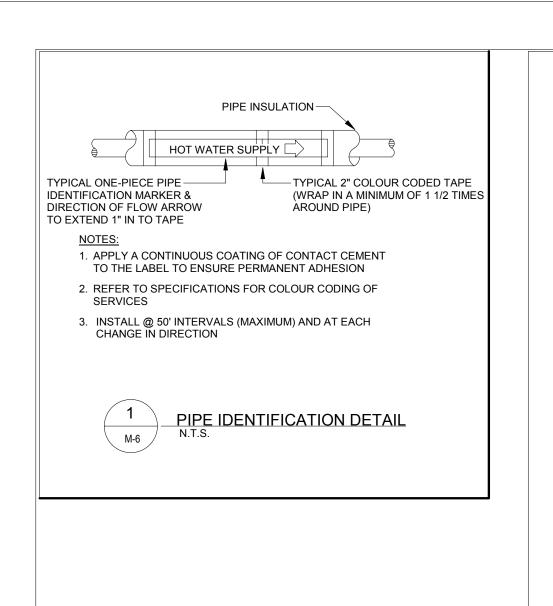
PROJECT NUMBER:

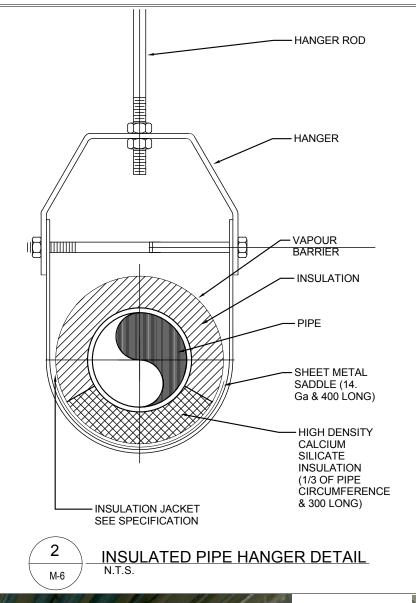
18080-S DRAWN: SL DESIGNED: KH

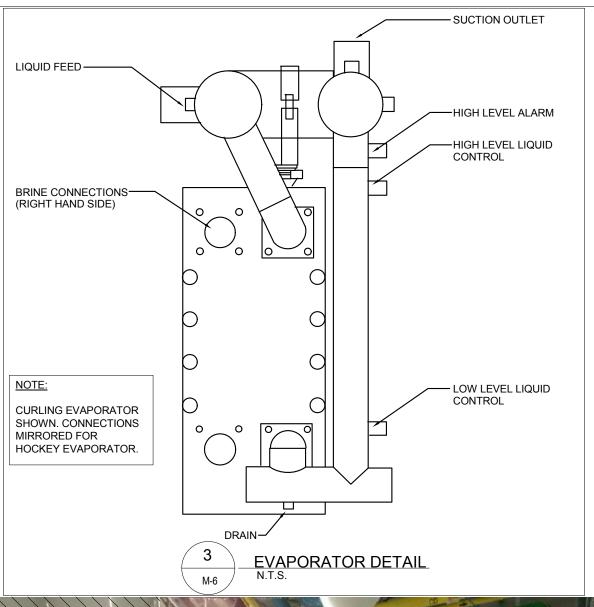
CHECKED: KH **DATE:** 09 Mar 18 SCALE: As indicated

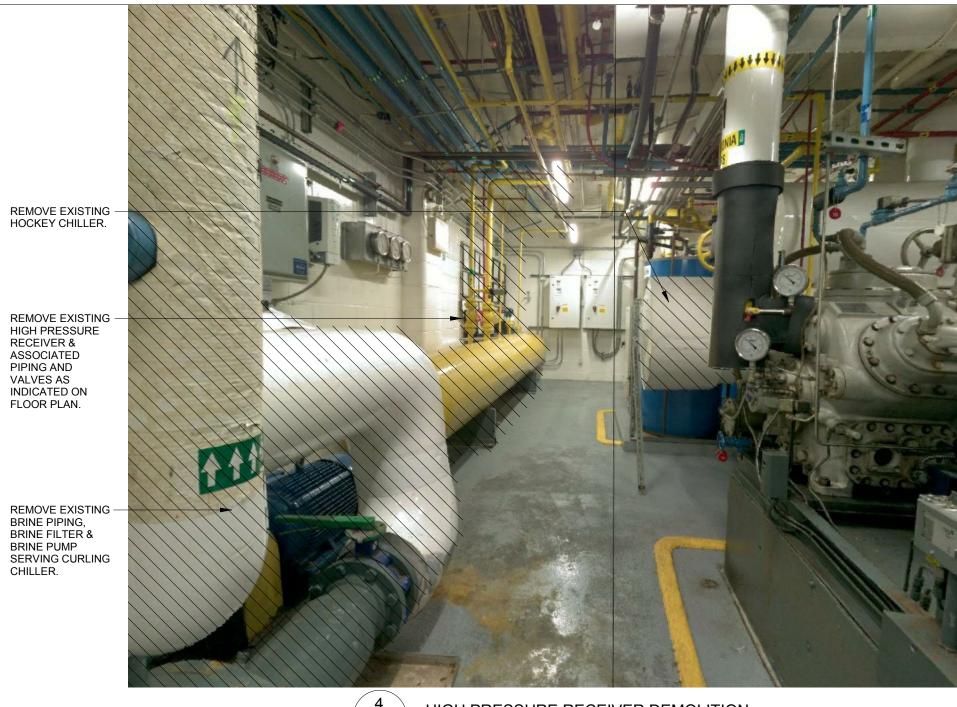
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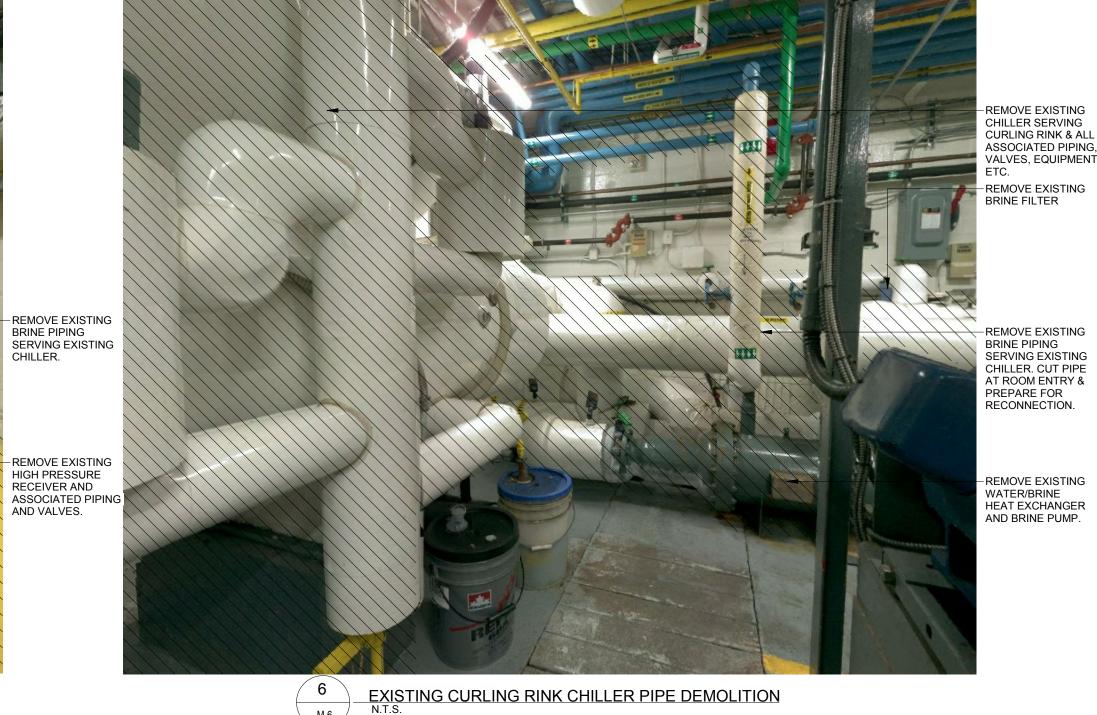
DRAWING NUMBER: M-5

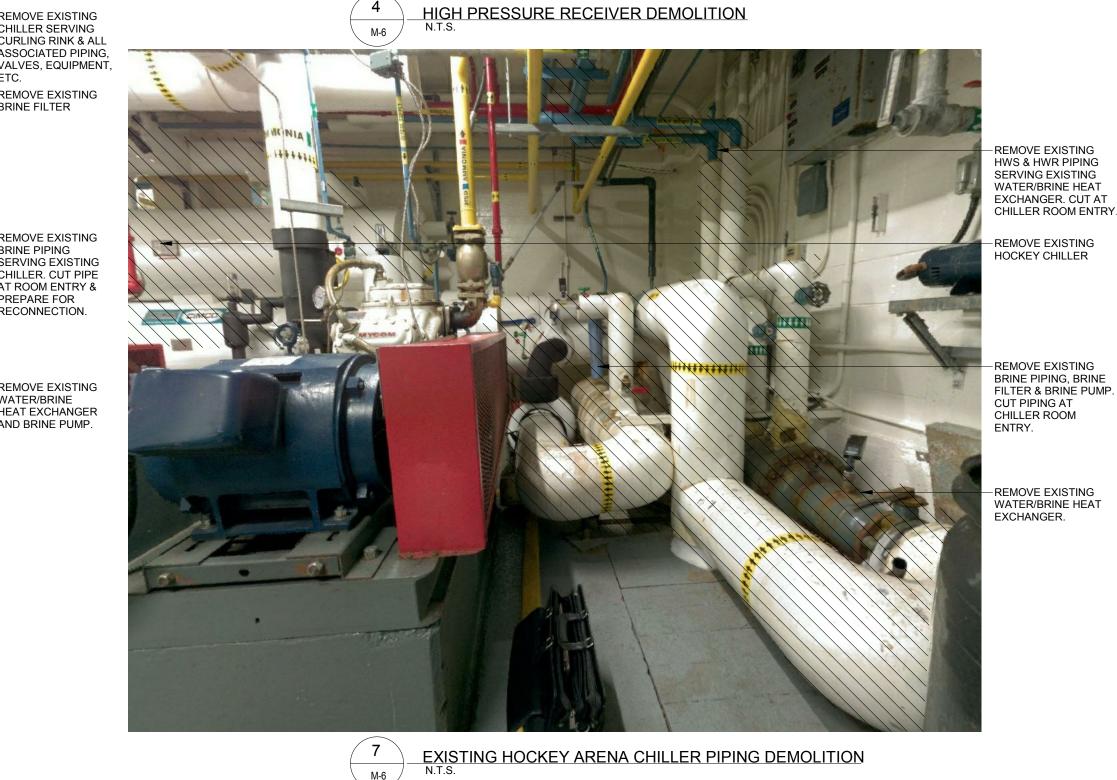












EXISTING CURLING RINK CHILLER DEMOLITION N.T.S. PANEL

TYPICAL INSULATION BOX FOR NEW CHILLERS
N.T.S.



REMOVE EXISTING BRINE PIPING

CHILLER.

AND VALVES.

SATURATED SUCTION PIPE FROM CHILLER AT ISOLATION PREPARE FOR RECONNECTION.

EXISTING BRINE & HWS PIPING SERVING HOCKEY CHILLER. SEE REMOVE EXISTING CHILLER SERVING HOCKEY RINK AND ALL ASSOCIATED

PIPING, VALVES, EQUIPMENT, ETC.

PUMP S	IP SCHEDULE											
UNIT NUMBER	MANUFACTURER	MODEL	SERVICE	LOCATION	PIPE INLET. SIZE (in.)	PIPE OUTLET SIZE (in.)	POWER (HP)	DRIVE TYPE	FLOW RATE (GPM)	TOTAL HEAD (ft)	V/Ph/Hz	COMMENTS
P-1	ARMSTRONG	4030-6x5x10-25	HE-1	CHILLER ROOM	6	5	25.0	EXT. VFD	1000	55.0	480/3/60	C/W NEW VFD
P-2	ARMSTRONG	4030-6x4x8-15	HE-2	CHILLER ROOM	6	5	15.0	EXT. VFD	600	55.0	480/3/60	EXISTING VFD

EXISTING HOCKEY ARENA CHILLER DEMOLITION N.T.S.

CERTIFICATE OF RECORD DRAWINGS		
	UNIT NUMBER	MANU
, FRASER VALLEY REFRIGERATION HEREBY CERTIFY		
AT THE SET OF RECORD DRAWINGS ATTACHED		
RETO COMPRISED OF 7 SHEETS IS A COMPLETE AND		

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MMONIA EVAPORATOR (HEAT EXCHANGER) SCHEDUL	F

	AIVIIVIOI		J (1 O I (1 L			it) OOI ILD	OLL															
												AMMONIA	4				BRINE WA	TER SIDE				
	UNIT NUMBER	MANUFACTURER	MODEL	SERVICE	LOCATION	HEATING MEDIA	DIMENSIONS W x L x H (in)	BRINE WATER CONNECTIONS [in]	AMMONIA CONNECTIONS [in]	FLOW RATE [Lb/hr]	PRESSURE DROP [PSI]	ENTERING AMMONIA [°C (°F)]		CAPACITY [kW (MBH)]	FLOW RATE [L/s (GPM)]	EWT [°C (°F)]	LWT [°C (°F)]	MEDIA	MAX P.D [PSI]	CAPACITY [kWVEI	JHT [l	b] COMMENTS
	HE-1	ALPHA LAVAL	MK15BW-FD	ARENA EVAPORATOR	CH. RM	BRINE WATER	26x60x59	6	6	1835	0.385	-12 (10.4)	-12 (10.4)	224.8 (768)	50.4 (799)	-7.8 (18)	-9.0 (15.8)	BRINE WATER	14	224.8 (768)	3430	1,2,3A,4,5,6,7,8,9,10
.IR	HE-2	ALPHA LAVAL	M10BW-FD	AMMONIA EVAPORATOR	CH. RM	BRINE WATER	19x45x43	4	4	951.2	0.258	-10 (14)	-10 (14)	116.0 (396)	37.8 (599)	-6.2 (20.9)	-7 (19.4)	BRINE WATER	14	116.0 (396)	1140	1,2,3B,4,5,6,7,8,9,10

RECEIVER & ASSOCIATED PIPING AND

VALVES AS

INDICATED ON

FLOOR PLAN.

BRINE PUMP

CHILLER.

COMMENTS

1. RELATIVE DIRECTION OF FLUIDS - COCURRENT
2. NUMBER OF PASSES - 1
3A) NUMBER OF PLATES 96 WITH EXTENSION CAPACITY OF 54
4. PLATE MATERIAL / THICKNESS TI / 0.60 MM
5. SEALING MATERIAL BRINE-NBRP CLIP-ON AMMONIA-WELDED
6. RING GASKET - CR CLIP-ON 7. CONNECTION MATERIAL - CARBON STEEL STUB END CARBON STEEL STUB END 8. LÍNING - TITANIUM 9. PRESSURE VESSEL CODE - ASME 10.HEAT ÉXCHANGER IS TO BE C/W U TURN SEPERATOR

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PROJECT TITLE: **ARCHIE BROWNING** CHILLER **REPLACEMENT**

CLIENT: **TOWNSHIP OF ESQUIMALT**

MECHANICAL DETAILS & PHOTOS

PROJECT NUMBER: 18080-S

DRAWN: SL DESIGNED: KH CHECKED: KH **DATE:** 09 Mar 18

SCALE: As indicated DRAWING NUMBER: