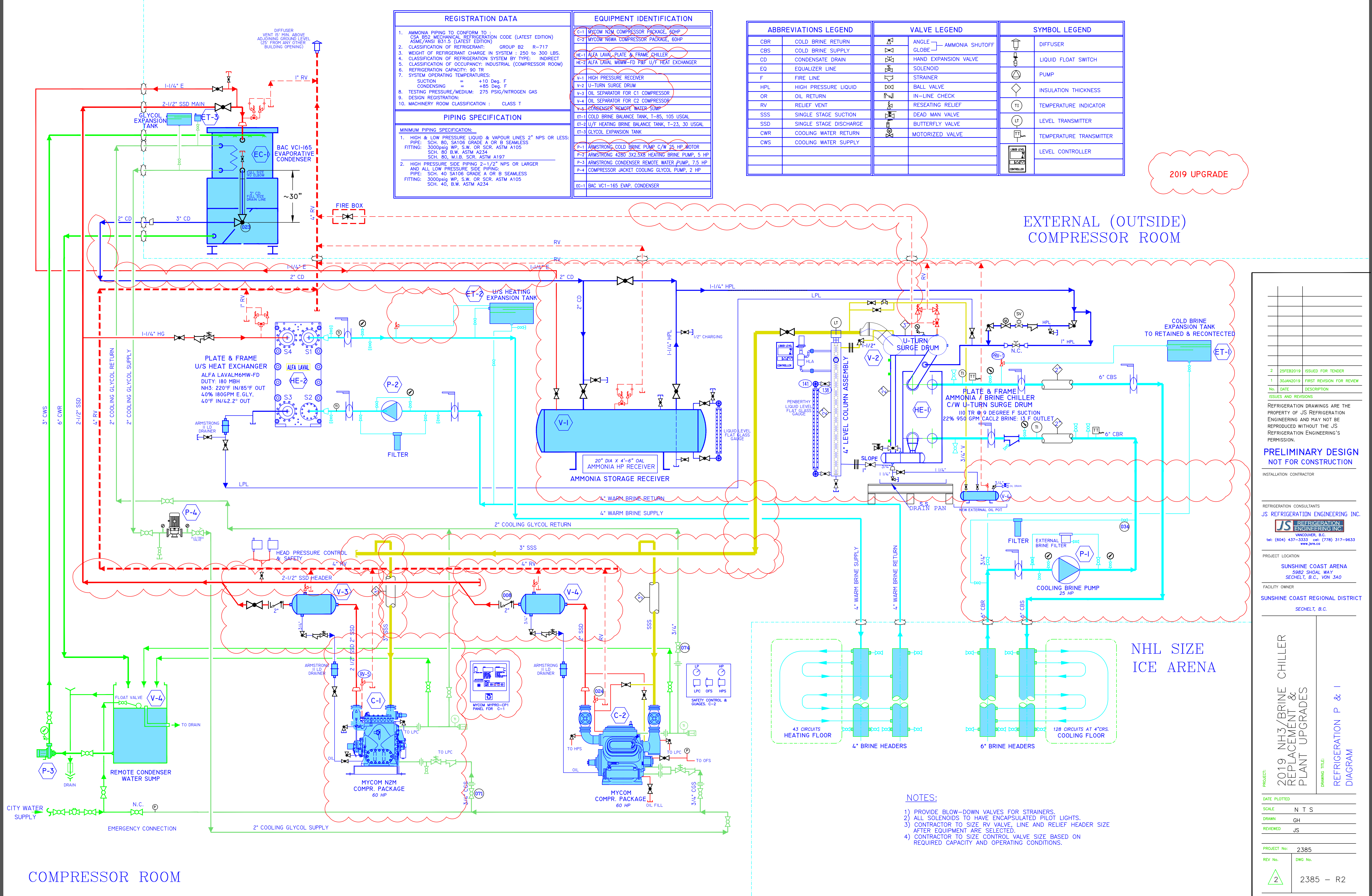


REGISTRATION DATA	EQUIPMENT IDENTIFICATION
1. AMMONIA PIPING TO CONFORM TO CSA B52 MECHANICAL REFRIGERATION CODE (LATEST EDITION) ASME/ANSI B31.5 (LATEST EDITION)	C-1 MYCOM N2M COMPRESSOR PACKAGE, 60HP
2. CLASSIFICATION OF REFRIGERANT: GROUP B2 R-717	C-2 MYCOM N2M COMPRESSOR PACKAGE, 60HP
3. WEIGHT OF REFRIGERANT CHARGE IN SYSTEM: 250 TO 300 LBS.	HE-1 ALFA LAVAL PLATE & FRAME CHILLER
4. CLASSIFICATION OF REFRIGERATION SYSTEM BY TYPE: INDIRECT	HE-2 ALFA LAVAL M6MW-FD P&F U/F HEAT EXCHANGER
5. CLASSIFICATION OF OCCUPANCY: INDUSTRIAL (COMPRESSOR ROOM)	V-1 HIGH PRESSURE RECEIVER
6. REFRIGERATION CAPACITY: 90 TR	V-2 U-TURN SURGE DRUM
7. SYSTEM OPERATING TEMPERATURES: SUCTION = +10 Deg. F CONDENSING = +85 Deg. F	V-3 OIL SEPARATOR FOR C1 COMPRESSOR
8. TESTING PRESSURE/MEDIUM: 275 PSIG/NITROGEN GAS	V-4 OIL SEPARATOR FOR C2 COMPRESSOR
9. DESIGN REGISTRATION:	V-5 CONDENSER REMOTE WATER SUMP
10. MACHINERY ROOM CLASSIFICATION: CLASS T	ET-1 COLD BRINE BALANCE TANK, T-85, 105 USGAL
	ET-2 U/F HEATING BRINE BALANCE TANK, T-23, 30 USGAL
	ET-3 GLYCOL EXPANSION TANK
PIPING SPECIFICATION	P-1 ARMSTRONG COLD BRINE PUMP C/W 25 HP MOTOR
MINIMUM PIPING SPECIFICATION:	P-2 ARMSTRONG 4280 3X2.5X5 HEATING BRINE PUMP, 5 HP
1. HIGH & LOW PRESSURE LIQUID & VAPOUR LINES 2" NPS OR LESS: PIPE: SCH. 80, SA106 GRADE A OR B SEAMLESS FITTING: 3000PSIG WP, S.W. OR SCR. ASTM A105 SCH. 80 B.W. ASTM A234 SCH. 80, M.I.B. SCR. ASTM A197	P-3 ARMSTRONG CONDENSER REMOTE WATER PUMP, 7.5 HP
2. HIGH PRESSURE SIDE PIPING 2-1/2" NPS OR LARGER AND ALL LOW PRESSURE SIDE PIPING: PIPE: SCH. 40 SA106 GRADE A OR B SEAMLESS FITTING: 3000PSIG WP, S.W. OR SCR. ASTM A105 SCH. 40, B.W. ASTM A234	P-4 COMPRESSOR JACKET COOLING GLYCOL PUMP, 2 HP
	EC-1 BAC VCI-165 EVAP. CONDENSER

ABBREVIATIONS LEGEND	VALVE LEGEND	SYMBOL LEGEND
CBR COLD BRINE RETURN	ANGLE GLOBE AMMONIA SHUTOFF	DIFFUSER
CBS COLD BRINE SUPPLY	HAND EXPANSION VALVE	LIQUID FLOAT SWITCH
CD CONDENSATE DRAIN	SOLENOID	PUMP
EQ EQUALIZER LINE	STRAINER	INSULATION THICKNESS
F FIRE LINE	BALL VALVE	TEMPERATURE INDICATOR
HPL HIGH PRESSURE LIQUID	IN-LINE CHECK	TEMPERATURE TRANSMITTER
OR OIL RETURN	RESEATING RELIEF	TEMPERATURE TRANSMITTER
RV RELIEF VENT	DEAD MAN VALVE	LEVEL CONTROLLER
SSS SINGLE STAGE SUCTION	BUTTERFLY VALVE	
SSD SINGLE STAGE DISCHARGE	MOTORIZED VALVE	
SSD SINGLE STAGE DISCHARGE		
CWR COOLING WATER RETURN		
CWS COOLING WATER SUPPLY		

2019 UPGRADE



EXTERNAL (OUTSIDE) COMPRESSOR ROOM

NHL SIZE ICE ARENA

COMPRESSOR ROOM

- NOTES:
- 1) PROVIDE BLOW-DOWN VALVES FOR STRAINERS.
 - 2) ALL SOLENOIDS TO HAVE ENCAPSULATED PILOT LIGHTS.
 - 3) CONTRACTOR TO SIZE RV VALVE, LINE AND RELIEF HEADER SIZE AFTER EQUIPMENT ARE SELECTED.
 - 4) CONTRACTOR TO SIZE CONTROL VALVE SIZE BASED ON REQUIRED CAPACITY AND OPERATING CONDITIONS.

NO.	DATE	DESCRIPTION
2	25FEB2019	ISSUED FOR TENDER
1	30JAN2019	FIRST REVISION FOR REVIEW

REFRIGERATION DRAWINGS ARE THE PROPERTY OF JS REFRIGERATION ENGINEERING AND MAY NOT BE REPRODUCED WITHOUT THE JS REFRIGERATION ENGINEERING'S PERMISSION.

PRELIMINARY DESIGN NOT FOR CONSTRUCTION

INSTALLATION CONTRACTOR

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5982 SHOAL WAY
SECHLT, B.C., V0N 3A0

FACILITY OWNER
SUNSHINE COAST REGIONAL DISTRICT
SECHLT, B.C.

PROJECT: 2019 NH3/BRINE CHILLER REPLACEMENT & PLANT UPGRADES

DRAWING TITLE: REFRIGERATION P & I DIAGRAM

DATE PLOTTED	SCALE	N T S
	N T S	
	GH	
	JS	
PROJECT No:	2385	
REV No:	DWG No.	
2	2385 - R2	