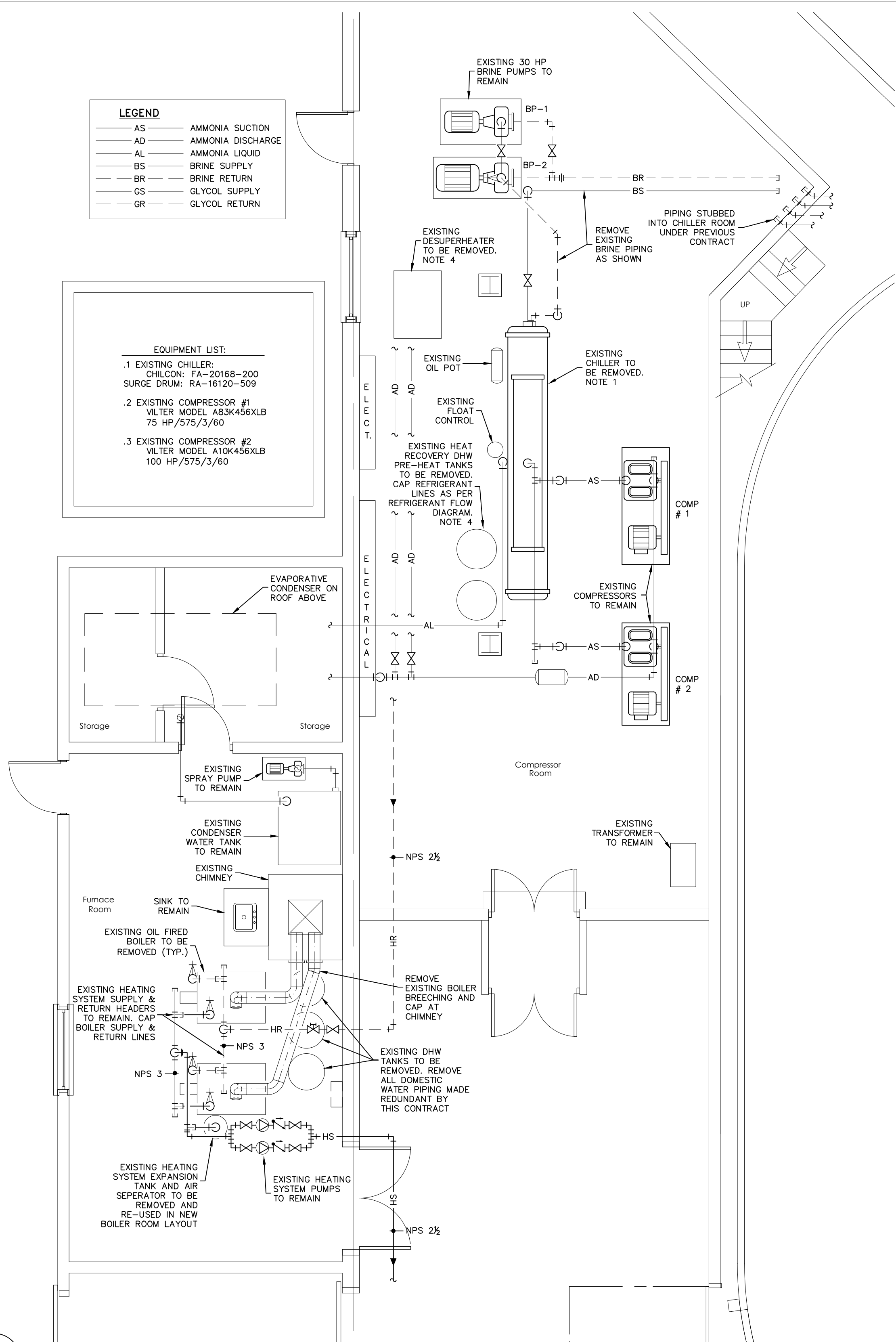


NOTES:

- EXISTING AMMONIA BRINE CHILLER SHALL BE DISCONNECTED AND REMOVED IN ACCORDANCE WITH ALL REGULATIONS FOR DISPOSAL OF SUCH EQUIPMENT.
- CONTRACTOR SHALL STORE AMMONIA CHARGE BY APPROVED METHOD AND RE-FILL SYSTEM TO FULL CHARGE IN COMPLETION OF THE WORK.
- ON COMPLETION OF INSTALLATION, CONTRACTOR SHALL PROVIDE START-UP OF PLANT AND ASSISTANCE TO STAFF ON INITIAL ICE SHEET INSTALLATION FOR PURPOSES OF PROPER PLANT AND CONTROLS OPERATION.
- REMOVE EXISTING ABANDONED DESUPERHEATER AND HEAT RECOVERY WATER TANKS c/w ALL PIPING, ACCESSORIES, HANGER ETC. RELATED TO THIS EQUIPMENT. REMOVE ALL REDUNDANT BRANCH PIPING ON AMMONIA AND DOMESTIC WATER SYSTEMS AND CAP AT SYSTEM MAINS.
- CONNECT NEW BRINE CHILLER, c/w LIQUID LEVEL CONTROLS TO EXISTING AMMONIA AND BRINE PIPING. REFILL ALL SYSTEMS TO PROPER WORKING LEVEL.
- BRINE SYSTEM FILL SHALL BE COMPLETED TO FILL SYSTEM. NEW FLOOR PIPING AND HEADERS ARE INSTALLED UNDER PREVIOUS CONTRACT. THIS CONTRACT SHALL INCLUDE START-UP ALL AIR PURGING, AND SYSTEM FILL OF THE ENTIRE BRINE PIPING SYSTEM.
- INSULATE ALL BRINE PIPING IN PLANT ROOM AND CHILLER WITH RIGID INSULATION. INSULATION SHALL BE (DOW - TRYMER) POLYCYOCYANURADE, WITH SARAN VAPOR RETARDER, AND PVC JACKET. THICKNESS 2".
- SUPPLY & INSTALL NEW ICE-PLANT CONTROL SYSTEM, CIMCO MODEL 5000E OR EQUAL. THE REF. PLANT CONTROL SYSTEM SHALL BE BASED ON A DIRECT DIGITAL CONTROL (DDC) SYSTEM. FEATURES SHALL INCLUDE:
(1) INFRARED ICE TEMPERATURE CONTROLS, BRINE TEMPERATURE SENSORS, ICE SLAB SENSOR, AND UNDER SLAB SENSOR. THE SYSTEM SHALL BE CAPABLE OF 7 DAY SCHEDULING FOR DAY AND NIGHT CONTROL, THERMO LOGGING, EQUIPMENT RUN TIME LOGGING, ALARM LOGGING AND BACNET PROTOCOL COMMUNICATION WITH THE EXISTING BUILDING EMCS SYSTEM. COMMUNICATION SHALL BE VIA ETHERNET.
(2) COMPRESSORS, GLYCOL UNDER FLOOR PUMPS, BRINE PUMPS, CONDENSOR PUMP, AND EVAPORATIVE CONDENSOR FEATURES SHALL ALL BE PROGRAMMED TO OPERATE BY THIS NEW CONTROLLER.
ALL EXISTING REDUNDANT CONTROL DEVICES, WIRING AND ACCESSORIES SHALL BE REMOVED AND DISPOSED OF. A GRAPHICAL INTERFACE SHALL BE INCLUDED FOR INSTALLATION ON THE EXISTING BUILDING EMCS SYSTEM.
- INSTALL NEW INSULATION ON ALL EXISTING AMMONIA SUCTION AND LIQUID PIPING IN PLANT ROOM.
- INSTALL NEW HANSEN MODEL VLT-LIQUID LEVEL PROBE c/w MOD 420 CONTROLLER AND LIQUID LEVEL COLUMN. CONNECT NEW AMMONIA LIQUID LEVEL CONTROL TO NEW 5000E CONTROL SYSTEM. INCORPORATE ALL LEVEL ALARM SETTINGS INTO 5000E SYSTEM.

LEGEND	
AS	AMMONIA SUCTION
AD	AMMONIA DISCHARGE
AL	AMMONIA LIQUID
BS	BRINE SUPPLY
BR	BRINE RETURN
GS	GLYCOL SUPPLY
GR	GLYCOL RETURN

EQUIPMENT LIST:	
.1	EXISTING CHILLER: CHILCON: FA-20168-200 SURGE DRUM: RA-16120-509
.2	EXISTING COMPRESSOR #1 VILTER MODEL AB3K456XLB 75 HP/575/3/60
.3	EXISTING COMPRESSOR #2 VILTER MODEL A10K456XLB 100 HP/575/3/60



1 M-1 DRAWING NOTES

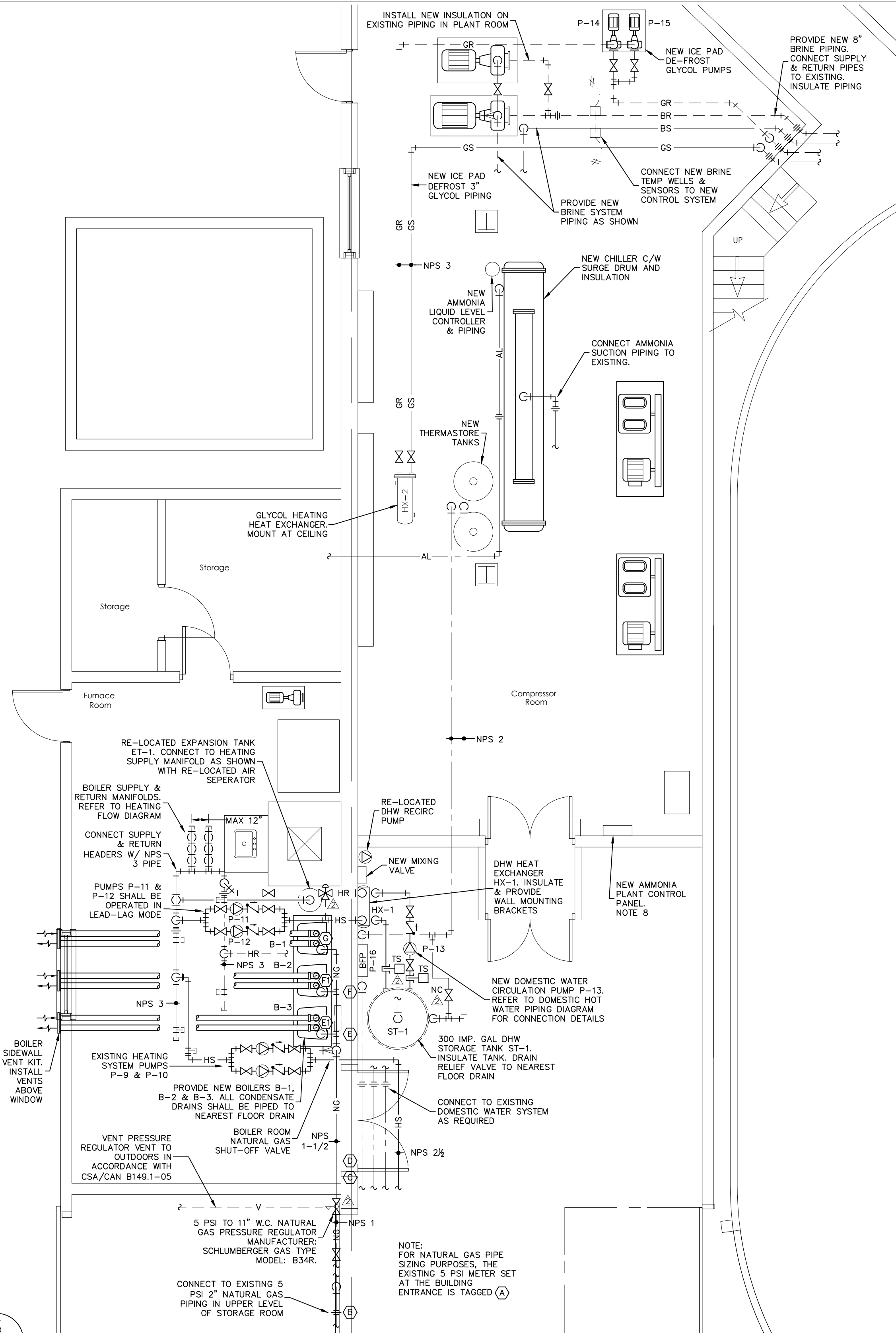
N.T.S.

2 M-1 MECHANICAL ROOM ENLARGEMENT - REMOVALS

SCALE: 1/4"=1'-0"

3 M-1 MECHANICAL ROOM ENLARGEMENT - NEW EQUIPMENT LAYOUT

SCALE: 1/4"=1'-0"



Contractor must check and verify all dimensions on the job and report any discrepancies to the Architect before proceeding with the work.

DO NOT SCALE THIS DRAWING.

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General Notes

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Eng. Job No. 11-07-087

Revisions:	No.	Date
ISSUED FOR TENDER	1	MAY 15, 2007
RECORD DRAWING	2	DEC. 31, 2007

RECORD DRAWING
From AS BUILT drawings
supplied by:
MONCTON PLUMBING & SUPPLY CO. LTD.
Dated Oct. 17, 2007

Construction North

Stamp

Project Name
AMHERST STADIUM RENOVATION (PHASE 3)
AMHERST, NOVA SCOTIA

Drawing Title
REFRIGERATION & HEATING PIPING DETAILS

Designed	MCG
Drawn	RJM
Checked	MCG
Scale	AS SHOWN
Date	MAY 2007
Project No.	11-07-087
Drawing No.	M-1