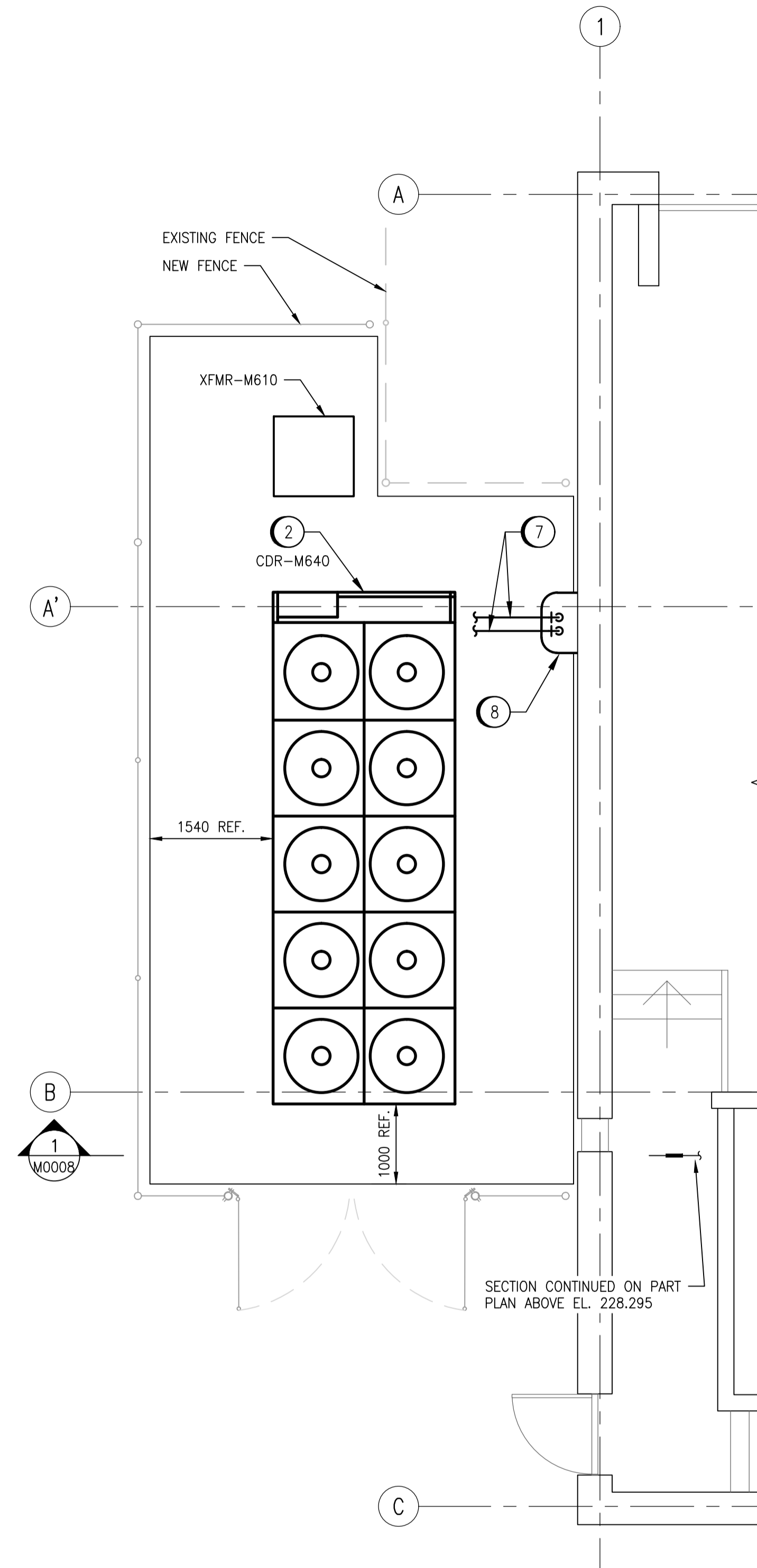


PART PLAN ABOVE EL 228.295
 SCALE: 1:50



PART PLAN AT GRADE
 SCALE: 1:50

GENERAL NOTES

- DRAWING INFORMATION BASED ON HISTORICAL DRAWING McP-230 AND SITE INVESTIGATIONS.
- INSULATION ON ALL EXISTING DOMESTIC WATER, CHILLED WATER SUPPLY/RETURN, FRESH AIR INTAKE, RAIN WATER LEADER, CONDENSATE AND DRAIN PIPE FITTINGS CONTAIN ASBESTOS MATERIALS AND MUST BE REMOVED IN ACCORDANCE WITH THE ASBESTOS ABATEMENT SPECIFICATIONS.
- MASONRY BLOCK WALLS, CEILING OR WALL HARD PLASTERS AND CERAMIC FLOOR TILES MAY CONTAIN ASBESTOS. CORING OR DRILLING OF WALLS MUST BE DONE IN ACCORDANCE WITH THE ASBESTOS ABATEMENT SPECIFICATIONS.

NEW WORK NOTES

- SUPPLY AND INSTALL NEW AIR COOLED CHILLER CHLR-M640 ON NEW 4460x1090x150mm THICK HOUSEKEEPING PAD. PROVIDE NEW 150X150mm TILE ON NEW PAD TO MATCH EXISTING. SEE DRAWING 1-0604M-M0008 FOR DETAIL.
- SUPPLY AND INSTALL NEW AIR COOLED CONDENSER CDR-M640 ON NEW CONCRETE PAD. SEE DRAWING 1-0604A-S0001.
- SUPPLY AND INSTALL NEW PUMPS P-M641 & P-M642 ON NEW PUMP SUPPORTS. SEE DRAWING 1-0604M-M0008 FOR DETAIL.
- SUPPLY AND INSTALL NEW EXPANSION TANK TK-M643.
- SUPPLY AND INSTALL NEW COOLING COIL BALANCING VALVE ON COOLING COIL RETURN PIPING.
- SUPPLY AND INSTALL NEW INSULATED PIPING. CONNECT PIPING TO EXISTING CHILLED GLYCOL SUPPLY AND RETURN AT TIE-IN POINT SHOWN.
- SUPPLY AND INSTALL NEW INSULATED REFRIGERATION PIPING TO CONDENSING UNIT.
- SUPPLY AND INSTALL NEW CORRUGATED WINDOW WELL FOR PIPING.
- CONNECT RETURN PIPING FROM ELECTRICAL ROOM FAN COILS TO COOLING COIL RETURN PIPING.
- SCAN THE WALL PRIOR TO CORING OR CUTTING. PROVIDE WATERTIGHT SEAL FOR TUBING PENETRATING THE WALL. COORDINATE WITH THE INSTALLATION OF THE ELECTRICAL SERVICE.

LEGEND

	EXISTING EQUIPMENT TO REMAIN
	NEW EQUIPMENT
	EXISTING PIPING
	NEW PIPING
	FLOW INDICATOR

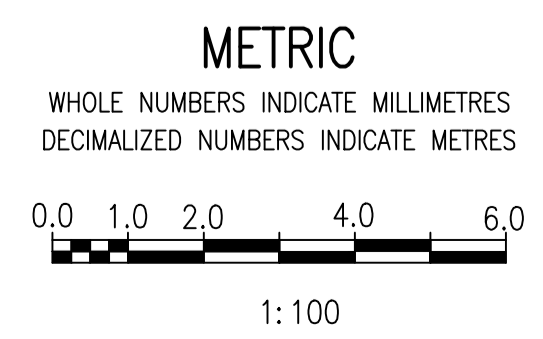
DESIGN CRITERIA:

THE BUILDING ENVIRONMENTAL HEATING/COOLING SYSTEMS SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED TO THE REQUIREMENTS OF THE MANITOBA BUILDING CODE, CSA B52-2018 MECHANICAL REFRIGERATION CODE AND VENTILATED AT A MINIMUM OF 15 AIR CHANGES PER HOUR (ACH) CONTINUOUSLY. MORE SPECIFICALLY AS FOLLOWS:

- OUTDOOR CONDITIONS OF -33°C IN WINTER AND 30°C DB/23°C WB IN SUMMER.
- INDOOR CONDITIONS OF 21°C IN WINTER AND 24°C IN SUMMER.
- REFRIGERANT: HFO-1234ZE

AREA	VOLUME (M³)	MIN. ACH	MIN. AIRFLOW (L/S)	MAX ALLOWABLE REFG IN ROOM (KG/M³)	MAX ALLOWED SYSTEM REFG WEIGHT (KG)
PUMP ROOM	5,906	15	26,049	0.075	420

1-0640M-M0009	PROCESS FLOW DIAGRAM AND EQUIPMENT SCHEDULES
1-0640M-M0008	SECTIONS AND DETAILS
DRAWING NUMBER	REFERENCE DRAWINGS



NO.	REVISIONS	DATE	DESIGN	CHECK
00	ISSUED FOR TENDER AND CONSTRUCTION	2019/11/01		

 SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, MB, Canada R3P 0X7 204-786-8080	
DESIGNED BY: H. OJO	CHECKED BY: S. NORSWORTHY
DRAWN BY: K. MOHAMMED	APPROVED BY: S. NORSWORTHY
SCALE: 1:100	ISSUED FOR CONSTRUCTION
DATE: 2019/04/26	BY: DATE:
CONSULTANT NO.:	

ENGINEER'S SEAL

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

MCPHILLIPS PUMPING STATION
 MAIN PUMPING STATION BUILDING
 MECHANICAL
 CHLR-M640
 ELEV. 228.295 PART PLAN

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0640M-M0006	001	00	A1