



**MAIN FLOOR MECHANICAL ROOM PLAN**  
SCALE: 1:50

INJECTION PIPING USED FOR HIGH TEMPERATURE LOOP. NEW LOW TEMPERATURE INJECTION LOOP INSTALLED ABOVE CEILING TILES

BUILDING LOOP HWR TO FLUID COOLER

P-14 THREE-WAY VALVE BRANCH CONNECTION TIE-IN POINT

P-1 AND P-2

INSULATE ALL 75Ø PIPE IN MECHANICAL ROOM

EXISTING B-2

EXISTING B-1 TO REMAIN IN OPERATION UNTIL NEW B-2 FULLY OPERATIONAL

INSULATE 100Ø PIPE DOWN STREAM OF THESE P-3 AND P-4 VALVES UP TO UNDERSIDE OF MECHANICAL ROOM

CHANGE PUMP FILTERS AND TOP UP CHEMICALS

**1 MAIN FLOOR MECHANICAL ROOM - WEST WALL**  
M-102 N.T.S.

75Ø INSULATED HWS  
75Ø INSULATED HWR



DOWN TO BASEMENT MECHANICAL ROOM

**2 MAIN FLOOR MECHANICAL ROOM - EAST WALL**  
M-102 N.T.S.

TBAR CEILING 3000 A.F.F. (MECHANICAL ROOM CEILING 5000 A.F.F.)  
600 x 600 CEILING DIFFUSER IN THIS VICINITY  
100Ø BUILDING LOOP HWS INSULATE ENTIRE PIPE IN MECHANICAL ROOM  
100Ø BUILDING LOOP HWR

REMOVE EXISTING 100Ø PIPE AND PUMP ON FLOOR TO ALLOW NEW B-2 BOILER INTO ROOM. DRAIN AND REFILL WATER TANK AS REQUIRED.

P-3 & P-4

INSULATE 100Ø PIPE UPSTREAM OF P-3 AND P-4 STRAINER

REMOVE OLD PRESSURE GAUGES, INSTALL NEW GAUGE PER M-502 DETAIL

NEW LOCATION OF PHONE

RELOCATE PHONE (AS SHOWN)

REINSTALL TEST KIT ON NORTH WALL. COORDINATE WITH CITY FOR EXACT LOCATION

NOTES:

**CONSTRUCTION NOTES**

- BOILER B-2 VENTING UP THROUGH NEW ROOF OPENING AND ROOF CURB.
- BOILER B-1 VENTING UP THROUGH EXISTING OPENING OF OLD CHIMNEY, PROVIDE NEW ROOF CURB.
- NEW HWS & HWR PIPE LOCATED ABOVE DROP CEILING ON MAIN FLOOR.
- TIE NEW HWR PIPE TO EXISTING 100Ø HWR IN CEILING OF MAIN FLOOR MENS WASHROOM.
- DISCONNECT MANUAL INJECTION PUMP TEMPERATURE DIAL. NEW INJECTION PUMP CONTROLS TO BE AUTOMATIC THROUGH BMS.
- PAINT ALL (APPROXIMATELY 10 METERS OF 25Ø TO 50Ø PIPE) BARE NATURAL GAS PIPE IN MECHANICAL ROOM YELLOW WITH LABELS READING "5 PSI HIGH PRESSURE" AND "7" LOW PRESSURE".
- CEILING DIFFUSER INSTALLED INTO EXISTING DROP CEILING C/W BALANCING DAMPER.
- 75Ø HWS AND HWR LOW TEMPERATURE INJECTION LOOP TIE-IN ABOVE CEILING TILES.
- TIE-IN 75Ø HWS CLOSE TO SOUTHEAST CORNER IN MENS WASHROOM TO ENSURE SUFFICIENT DISTANCE FROM NEW TEMPERATURE TRANSMITTER.
- NEW BUILDING LOOP TEMPERATURE TRANSMITTER INSTALLED IN VERTICAL DROP OF EXISTING 100Ø HWS.
- TIE NEW 75Ø B-1 HWS AND HWR TO EXISTING 65Ø PIPE. REINSULATE ALL EXISTING PIPE SERVING EXISTING P-1, P-2 AND UH-1.

**GENERAL NOTES**

- COORDINATE WITH OTHER TRADES SO AS TO PREVENT CONFLICTS.
- GENERAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR ON FINAL HOUSEKEEPING PAD DIMENSIONS. PADS TO EXTEND 150mm BEYOND FINAL EQUIPMENT DIMENSIONS.



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No.	REVISION/DESCRIPTION	BY	DATE
0	ISSUED FOR TENDER	GT	2010.02

SEAL

DATE	DRAWN	GT	CHECKED	DC	DESIGNED	DC	APPROVED	PVL
2010.06.14								

Winnipeg THE CITY OF WINNIPEG PLANNING, PROPERTY AND DEVELOPMENT DEPARTMENT MUNICIPAL ACCOMMODATIONS DIVISION 3-65 GARRY STREET, R3C 4K4

PROJECT CONFEDERATION BUILDING BOILER REPLACEMENT CITY PROJ. NO. 2010-023 457 MAIN STREET, WINNIPEG, MANITOBA

SHEET TITLE MECHANICAL MAIN FLOOR MECHANICAL ROOM PLAN

DRN	CHK	DES	ENG	IDR

AECOM REVIEW

SCALE	PROJECT No:	SHEET No:
AS NOTED	60154740	M-102