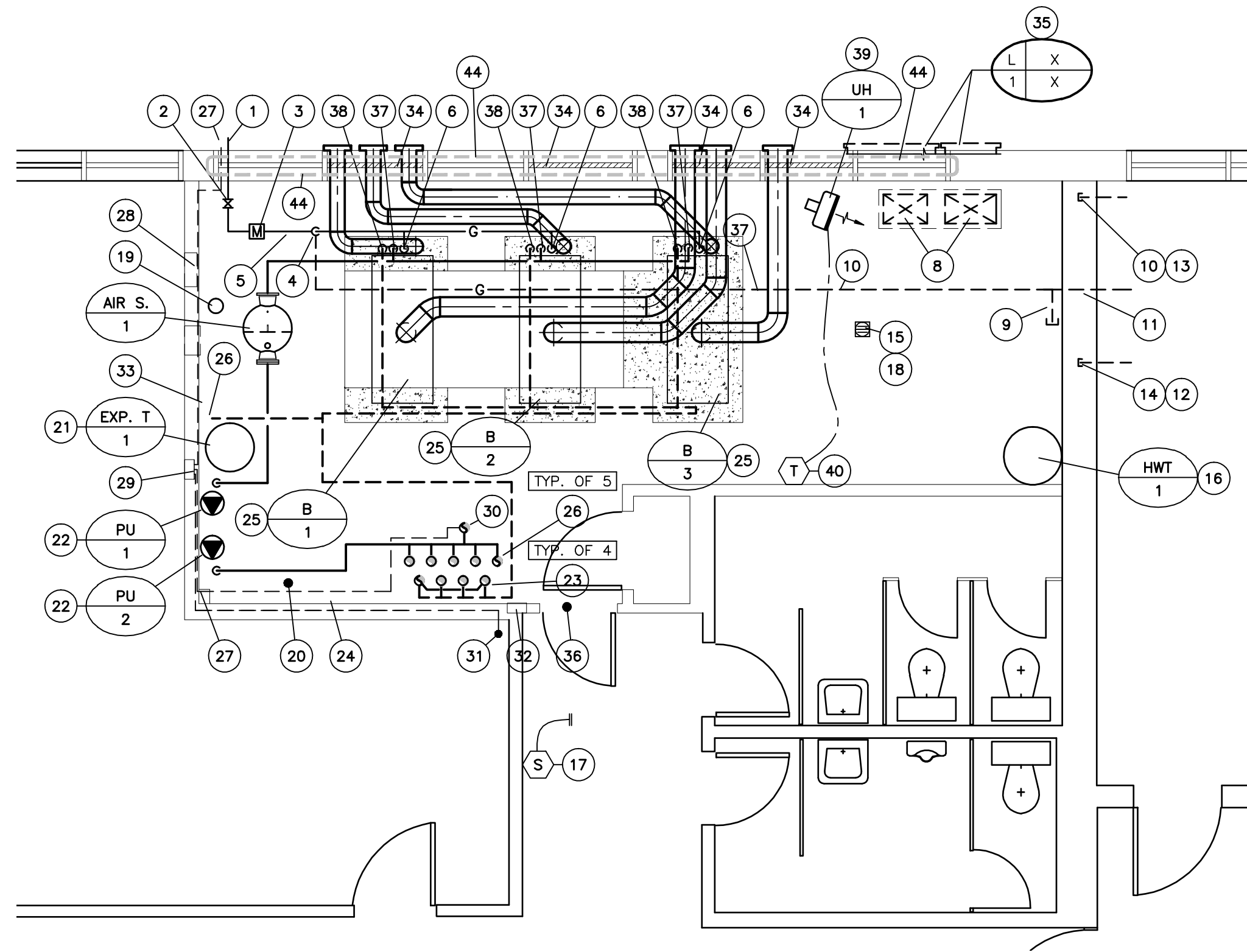
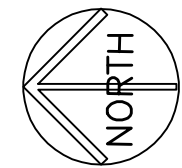


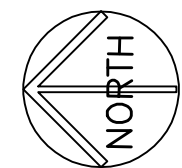
BASEMENT PLAN - NEW WORK

SCALE: 1/8" = 1'-0"



BOILER ROOM - NEW WORK

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



NEW WORK NOTES - M2.0, M2.1 & M2.2

- Existing gas service to building. This contractor to include service upgraded by Utilities.
- New gas shut off upstream of new gas meter. This contractor to include Utilities to upgrade as required.
- New gas meter. This contractor to include gas meter upgrade as required by Utilities.
- Existing gas piping to connect to new gas piping.
- New gas piping down stream of new gas meter. Note service to be maintained beyond room to existing roof top unit(s).
- New gas piping to new boilers.
- Existing boiler room ventilation louver at low level at exterior wall and associated ductwork removed completely. New infill. See wall detail.
- Existing combustion air duct up to main floor and out to existing louver at exterior wall to remain as is. Remove remainder within Boiler Room cap, seal and insulate patch above boiler room ceiling. Patch existing rated ceiling.
- Capped gas outlet termination.
- Existing condensate piping to be removed completely within existing boiler room. Provide cap at wall and fire stop existing opening.
- Existing gas piping after gas meter serving existing roof top equipment to remain. Make provision for a new connection. Provide fire stop at existing wall penetration.
- See Specification for existing steam main to be reused as a hot water supply main.
- See Specification for existing condensate main to be reused as a hot water return main.
- Existing steam supply main to be removed completely within existing boiler room. Provide cap at wall and fire stop existing opening.
- Existing floor drain to be re-used. Provide new funnel strainer. Make good operation.
- Domestic hot water tank (electric). New, re-pipe c/w all new valving with relief to drain.
- Controls Sub-Contractor to provide boiler system shut down switch (Johnson Controls)
- New low level boiler drain piping and associated common piped drains to be piped to existing floor drain. Provide uni-strut saddle.
- New pot feeder. Anchor to floor.
- Maintain service clearance to existing controls compressor.
- New expansion tank Place on floor.
- New primary circulating pumps. Provide vertical piping arrangement. See flow diagram. Provide floor mounted uni-strut arrangement c/w neoprene pad bridge at all contact points.
- Existing return riser to be maintained. New connection c/w new shut off valve and balancing valve.
- Existing make up water supply connection to be re-used. New PRV and associated valving to be installed.
- New hot water gas fired boilers complete with all new associated components, piping and valving. The intent is to re-use the existing house keeping pad. Modify as required. See flow diagram. See Structural detail for pad requirements.
- Existing supply riser to be maintained. New connection c/w new shut off valve.
- Existing control wiring. Controls Sub-Contractor to verify required operation. (Johnson Controls)
- Existing electrical panel.
- Existing electric pneumatic panel. Controls Sub-Contractor to verify required operation. (Johnson Controls)
- New control sensor. Controls Sub-Contractor to verify required operation. (Johnson Controls)
- Existing control wiring exits existing boiler room. Controls Sub-Contractor to verify required operation. (Johnson Controls)
- Existing time clock. Controls Sub-Contractor to verify required operation. (Johnson Controls)
- Existing pneumatic drum to remain.
- Existing window shown altered to suit new infill for new boiler inlet/outlet. See wall detail.
- Existing combustion air louver at intermediate level to be taken out of service. Remove ductwork up above Boiler Room ceiling. Provide insulated back panel and patch ceiling.
- Remove and re-install existing door frame as required to bring new boilers through door way. Note door handle to the next closet door to be removed and re-installed. If damaged during project provide new rated door c/w frame and master keyed.
- Typical supply water connection to boiler. See flow diagram.
- Typical return water connection to boiler. See flow diagram
- Suspend at high level.
- Turn over to Division 16 for wiring.
- Existing element convert to hot water control.
- Existing element is hot water.
- Existing thermostat. Controls existing Roof Top. Existing electric inline duct heater or element. Confirm which exist thermostat controls on As-Built. Recalibrate.
- New wall infill. See wall detail.

MECHANICAL LEGEND

	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC RECIRC WATER
	COLD WATER RETURN
	COLD WATER SUPPLY
	HOT WATER RETURN
	HOT WATER SUPPLY
	SANITARY DRAINAGE
	SPRINKLER
	SPRINKLER WET
	SPRINKLER DRY
	STORM
	PUMPED DRAINAGE
	FIRE
	HIGH TEMP
	MEDIUM TEMP
	GAS
	FLOOR DRAIN/HUB DRAIN
	SHUT-OFF VALVE
	CHECK VALVE
	BALANCING VALVE
	GLOBE VALVE
	STRAINER-Y-TYPE VALVE
	CONTROL VALVE
	SOLENOID VALVE
	PRESSURE REDUCING VALVE
	BUTTERFLY VALVE (GEAR)
	BUTTERFLY VALVE (LEVER)
	PLUMBING FIXTURE DESIGNATION IDENTIFICATION NUMBER
	PUMP DESIGNATION IDENTIFICATION NUMBER
	RELIEF VALVE TO DRAIN
	THERMOMETER
	PRESSURE GAUGE
	INCREASER/REDUCER ECCENTRIC
	THERMOMETER WELL TAP/WELL
	PRESSURE GAUGE TAP/WELL
	UNION
	PRESSURE SWITCH
	FLOW SWITCH
	FLEX CONNECTION
	THERMOSTAT
	CONNECTOR
	WALL FIN
	FORCE FLOW

	EQUIPMENT/FAN DESIGNATION IDENTIFICATION NUMBER
	EXHAUST GRILLE DESIGNATION SIZE L/S TYPE ("A" DENOTES FIRE DAMPER)
	SUPPLY GRILLE DESIGNATION SIZE L/S TYPE ("A" DENOTES FIRE DAMPER)
	ACCESS DOOR
	MOTORIZED DAMPER (MD)
	BALANCING DAMPER
	BACKDRAFT DAMPER
	FIRE DAMPER (FD)
	2HR FIRE DAMPER (FD)
	SUPPLY AIR DIFFUSER (GRILLE)
	RETURN AIR / EXHAUST AIR (REGISTER)
	ACOUSTIC LINING
	CHROME PENDANT SPRINKLER HEAD
	DRY PENDANT SPRINKLER HEAD
	UPRIGHT BRASS SPRINKLER HEAD
	FIRE EXTINGUISHER
	DRY SIDEWALL SPRINKLER HEAD
	WET SIDEWALL SPRINKLER HEAD
	VALVE C/W TAMPER SWITCH

	SHOCK ABSORBER
	AIR VENT
	SIGHT GLASS (WATER)
	FILTER (WATER)
	PUMP
	FLOW METER
	WATER METER
	GAS METER
	ANCHOR WITH GUIDE
	EXPANSION JOINT WITH GUIDE
	SHOWER HEAD

NOTES :

THESE DRAWINGS SHALL NOT BE SCALED.

THE CONTRACTOR SHALL VISIT THE SITE AND SATISFY ONESELF ALL DIMENSIONS, DATUM, AND DETAILED INFORMATION SHOWN ARE CORRECT.

THE CONTRACTOR IS TO REVIEW AND COORDINATE ALL ARCHITECTURAL, MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL OPENINGS THROUGH FLOORS, WALLS, AND CEILINGS FOR DUCT, PIPE & ELECTRICAL RISERS AND ALL OPENINGS NOT SHOWN ON DRAWINGS.

ALL OPENINGS THROUGH FIVE ASSEMBLIES ARE TO BE FIRE STOPPED AND SEALED WITH ULC APPROVED FIRE STOPPING TO MAINTAIN THE INTEGRITY OF THE FIRE SEPARATION, AND PROVIDE A SMOKE-TIGHT BARRIER.

ALL PRODUCTS AND MATERIALS TO BE USED AND INSTALLED SHALL CONFORM WITH MANUFACTURER'S SPECIFICATIONS & APPLICABLE CODES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO PATCH AND MAKE GOOD ALL EXISTING CONSTRUCTION AFFECTED BY THE REMOVAL OF ALL ITEMS FORMING THE PART OF THE RENOVATION WORK.

WHERE NEW FLOORING AND BASE IS TO BE INSTALLED IN EXISTING AREAS (REFER TO FLOOR PLAN AND ROOM SCHEDULE) THE EXISTING FLOORING SURFACE AND BASE MUST BE REMOVED, UNLESS OTHERWISE NOTED. ALL FLOOR SURFACES SHALL BE PREPARED IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF NEW FLOOR.

WHERE PAINTING OF EXISTING WALLS IS INDICATED ON THE ROOM SCHEDULE, THESE WALLS MUST BE CLEANED OF ANY EXISTING WALL COVERING, PATCHED & PREPARED TO ACCEPT NEW MATERIAL, UNLESS OTHERWISE NOTED.

DRAWING LIST

SHEET No:	SHEET TITLE
M1.0	BASEMENT & BOILER ROOM PLANS - EXISTING DEMO
M1.1	MAIN & SECOND FLOOR PLANS - EXISTING DEMO
M2.0	BASEMENT & BOILER ROOM PLANS - NEW WORK
M2.1	MAIN & SECOND FLOOR PLANS - NEW WORK
M2.2	FLOW DIAGRAM

ORIGINAL STAMPED BY: BP
DATE: 5 JULY 2007

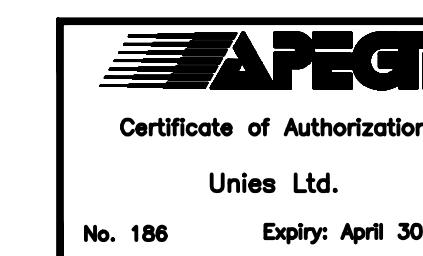


TPR MECHANICAL CONSULTANTS LTD.
150-188 ST. JAMES STREET, 3RD FLOOR
W. WINNIPEG, R3C 4K4
UNIES LTD. Consulting Engineers

R1 FOR TENDER BPRP 5 JULY 07

NO.	REVISION/DESCRIPTION	BY	DATE

SEALS



DRAWN BY: [Signature] CHECKED BY: BPRP APPROVED
DATE: 5 JULY 2007 USER APPROVAL

CITY OF WINNIPEG
PLANNING, PROPERTY AND
DEVELOPMENT DEPARTMENT
CIVIC ACCOMMODATIONS DIVISION
300 - 65 GARRY ST. R3C 4K4

PROJECT
**ST. JAMES - ASSINIBOIA
LIBRARY
BOILER REPLACEMENT**
1910 PORTAGE AVENUE

SHEET TITLE
**BASEMENT & BOILER ROOM PLANS
NEW WORK**