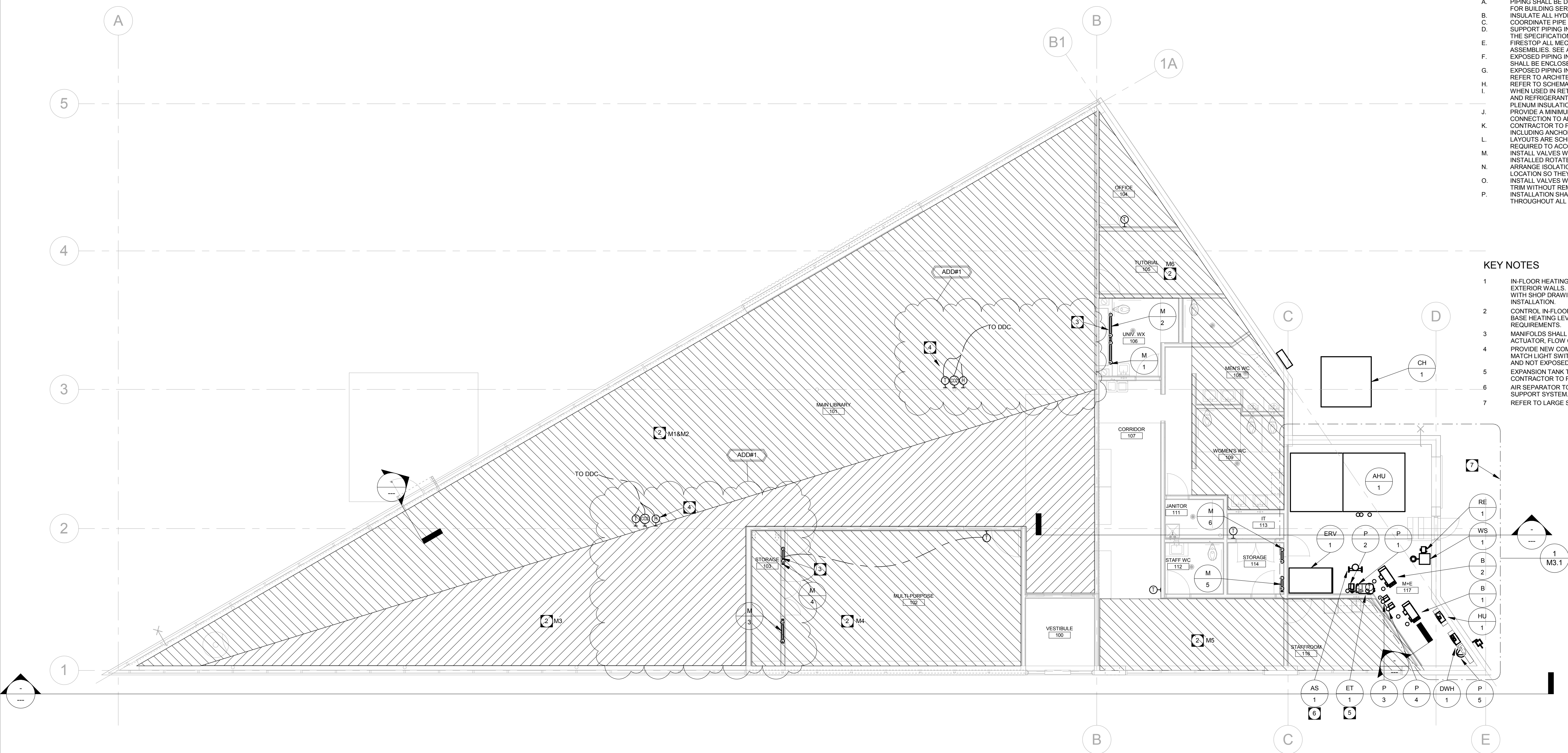


GENERAL NOTES

- A. PIPING SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ASME B31.9 CODE FOR BUILDING SERVICES PIPING.
- B. INSULATE ALL HYDRONIC PIPING IN ACCORDANCE WITH THE SPECIFICATIONS.
- C. COORDINATE PIPE RUNS IN THE BULKHEAD WITH OTHER TRADES TO AVOID CONFLICTS.
- D. SUPPORT PIPING IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND THE SPECIFICATIONS.
- E. FIRESTOP ALL MECHANICAL PENETRATIONS THROUGH FIRE-RATED FLOOR AND WALL ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND TYPE OF RATINGS.
- F. EXPOSED PIPING IN MECHANICAL ROOMS AND CRAWLSPACES AND OCCUPIED AREAS SHALL BE ENCLOSED WITH PVC JACKET.
- G. EXPOSED PIPING IN OCCUPIED SPACES SHALL BE PAINTED BY THE PAINTING CONTRACTOR. REFER TO ARCHITECTURAL NOTES.
- H. REFER TO SCHEMATIC AND DETAILS FOR PIPING AND EQUIPMENT ARRANGEMENT.
- I. WHEN USED IN RETURN-AIR PLENUMS, INSULATION MATERIALS FOR DOMESTIC, HYDRONIC, AND REFRIGERANT PIPING TO MEET SMOKE AND FLAME SPREAD REQUIREMENTS FOR PLENUM INSULATION.
- J. PROVIDE A MINIMUM OF TWO 90-DEGREE CHANGES IN DIRECTION AT EACH BRANCH CONNECTION TO ALLOW FOR PIPE MOVEMENT.
- K. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR FIELD-FABRICATED EXPANSION LOOPS INCLUDING ANCHORS AND GUIDES.
- L. LAYOUTS ARE SCHEMATIC. ADDITIONAL OFFSETS AND ELBOWS SHALL BE INSTALLED AS REQUIRED TO ACCOMMODATE ALL EXISTING CONDITIONS.
- M. INSTALL VALVES WITH THE STEMS VERTICAL. WHEN THIS IS NOT POSSIBLE, THEY MAY BE INSTALLED ROTATED BUT NEVER LESS THAN HORIZONTAL UNDER ANY CIRCUMSTANCE.
- N. ARRANGE ISOLATION VALVES STAGGERED WHERE THEY ARE INSTALLED IN A COMMON LOCATION SO THEY ARE COMPLETELY AND CONVENIENTLY ACCESSIBLE.
- O. INSTALL VALVES WITH ADEQUATE ROOM TO PERMIT REMOVAL OF THE BONNET, DISK, AND TRIM WITHOUT REMOVING THE VALVE FROM THE LINE.
- P. INSTALLATION SHALL PROVIDE MINIMUM 2050mm (80") OF CLEAR HEAD ROOM THROUGHOUT ALL MECHANICAL ROOMS.

KEY NOTES

- 1. IN-FLOOR HEATING PIPING 6 INCHES OIC SPACING, AND 6 INCH SPACING ADJACENT TO EXTERIOR WALLS. CONTRACTOR TO PROVIDE MANUFACTURERS SUGGESTED LOOP LAYOUT WITH SHOP DRAWINGS FOR ENGINEERS APPROVAL PRIOR TO ORDERING AND INSTALLATION.
- 2. CONTROL IN-FLOOR HEATING ZONES WITH IN-SLAB TEMPERATURE SENSORS. MAINTAIN BASE HEATING LEVEL WITH IN-FLOOR HEATING. REFER TO SCHEMATIC FOR INSTALL REQUIREMENTS.
- 3. MANIFOLDS SHALL BE RECESSED INTO THE WALL COMPLETE WITH SHUTOFF VALVE, ACTUATOR, FLOW CONTROL, AND ENCLOSURE.
- 4. PROVIDE NEW COMBINATION TEMPERATURE, HUMIDITY, AND CARBON DIOXIDE DETECTOR. MATCH LIGHT SWITCH ELEVATION. CONTROL WIRE SHALL BE RUN THROUGH THE COLUMN AND NOT EXPOSED.
- 5. EXPANSION TANK TO BE MOUNTED OFF WALL AT HIGH LEVEL ABOVE PUMPS P-1 & P-2. CONTRACTOR TO PROVIDE REQUIRED SUPPORT SYSTEM.
- 6. AIR SEPARATOR TO BE MOUNTED AT HIGH LEVEL. CONTRACTOR TO PROVIDE REQUIRED SUPPORT SYSTEM.
- 7. REFER TO LARGE SCALE MECHANICAL PLANS.



1 MAIN FLOOR PLAN - HYDRONIC
 MY2.2 SCALE: 1/8" = 1'-0"

epp siepman engineering inc.
 mechanical & electrical engineers
 303-100 Osborne St. South
 Winnipeg, MB R3L 1Y5
 p 204-453-1080
 ese@eppsiepman.com

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OWNER

 CITY OF WINNIPEG - PLANNING, PROPERTY & DEVELOPMENT DEPARTMENT
 MUNICIPAL ACCOMMODATIONS DIVISION
 3rd FLOOR - 65 GARRY ST., WPG, R3C 4K4

david penner
 ARCHITECT
 +
h5a
 h5 architecture

David Penner, 204.475.8978
 Hello Rodrigues, 204.774.0012
 120 Yale Avenue, Winnipeg, MB, R3M 0L7

PROJECT
 Windsor Park Library
ADDRESS
 1201 Archibald Street

DATE
 April 20, 2016

SCALE
 As indicated

main floor -
 hydronic
MY2.2