

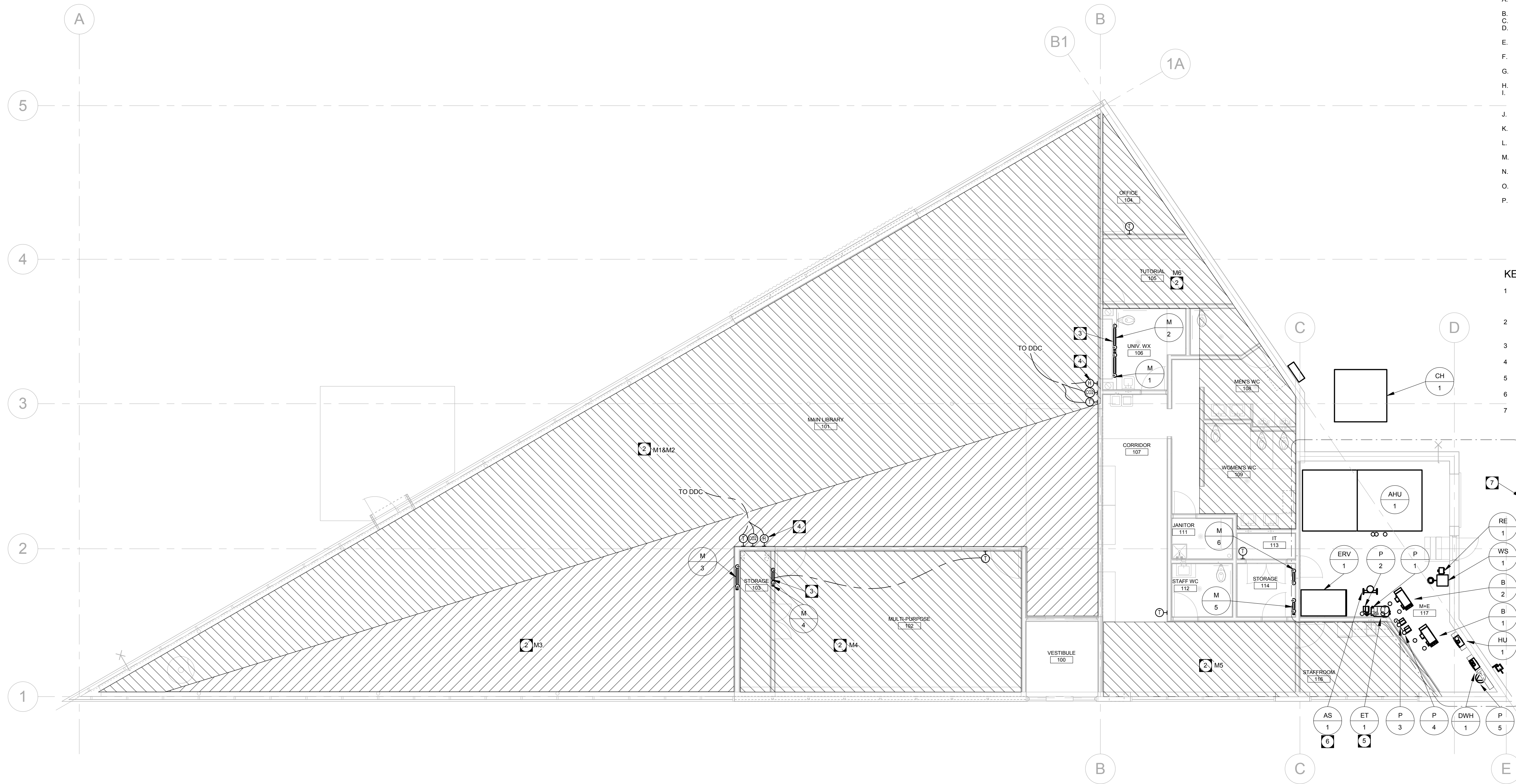


GENERAL NOTES

- 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 C/C SPACING, AND 6 INCH SPACING ADJACENT TO EXTERIOR WALLS. CONTRACTOR TO PROVIDE MANUFACTURERS SUGGESTED LOOP LAYOUT WITH SHOP DRAWINGS FOR ENGINEER'S 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.
- 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"



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PROJECT
 Windsor Park Library
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 February 28, 2016

SCALE
 As indicated

main floor -
 hydronic
MY2.2