

FILE NAME: 2008067\M10.dwgM8  
 DATE: 2010.09.21  
 DESCRIPTION: PARTIAL BASEMENT FLOOR PLAN - PLUMBING & FIRE SPRINKLER SPECIFICATIONS  
 PROJECT NO: 2008-067  
 ADDRESS: 151 PRINCESS STREET

### 1. PLUMBING SPECIFICATIONS

- 1. GENERAL:**  
 A. CONTRACTOR SHALL SUPPLY ALL LABOUR AND MATERIAL FOR A COMPLETE PLUMBING PIPING INSTALLATION AS INDICATED ON THE MECHANICAL DRAWINGS.  
 B. THE APPLICABLE CODES ARE CONSIDERED TO BE MINIMUM STANDARD REQUIREMENTS. IT IS NOTED IN SOME CASES, THE CODE REQUIREMENTS ARE EXCEEDED, AS SHOWN ON DRAWINGS.
- 2. PRODUCTS:**  
 A. GENERAL  
 1. EQUIPMENT AND MATERIALS ARE TO BE NEW AND CSA CERTIFIED, WHERE APPLICABLE  
 2. EQUIPMENT SCHEDULES ARE SHOWN ON THE MECHANICAL DRAWINGS
- B. SHOP DRAWINGS  
 1. SUBMIT FIVE (5) COPIES OF MANUFACTURERS' SHOP DRAWINGS FOR ALL NEW EQUIPMENT.  
 2. SUBMIT SHOP DRAWINGS FOR CONTRACT ADMINISTRATOR'S APPROVAL PRIOR TO PLACING ANY ORDER.
- C. COLD, HOT WASTE AND VENT PIPING AND FITTINGS

PIPE APPLICATION	FITTING MATERIAL	PIPE MATERIAL
COLD, HOT, AND HOT WATER RECIC. ABOVE GROUND	TYPE 'L' HARD COPPER TUBING	'STREAMLINE' OR EQUAL SOLDER JOINT CAST BRASS C/W SILVER SOLDERED JOINT
COLD WATER BURIED	TYPE 'K' SOFT COPPER TUBING	FLARED TUBE U/G SERVICE
SOIL, WASTE & VENT ABOVE GROUND OR NOT MORE THAN 2' BELOW	CAST IRON	M.J STAINLESS STEEL COUPLINGS
BURIED BELOW 2'	DWV COPPER	SOLDER JOINT
SOIL AND WASTE, BURIED	PVC SCHED. 40	PVC-DWV SCHED. 40

SIZE	JOINT	GATE	GLOBE	CHECK	VERT. CHECK
UP TO 2"	SOLDER	1320C	1310	1342	
OVER 2"	SCREW	428	5	41	29

- D. VALVES (BASED ON CRANE NO.)**
- E. HANGERS**  
 1. COPPER PIPING HANGERS, GRINNELL.  
 2. DRAINAGE PIPING HANGER, GRINNELL.  
 3. GALVANISED HANGER ROD SIZE 1/4"  
 4. PIPE SUPPORT SPACING AS FOLLOWS:

SIZE (INCH DIAMETER)	COPPER	C.I.
3/8", 1/2"	5 FEET	
3/4", 1"	6 FEET	
1 1/4", TO 2"	8 FEET	
2" AND UP		6 FEET

- F. SOLDER MATERIAL FOR COPPER SHALL BE LEAD FREE, SILVABRITE 100.
- G. WATER HAMMER ARRESTORS SHALL BE ZURN #1700 OR AS INDICATED ON DRAWING.

- 3. EXECUTION:**  
 A. INSTALLATION  
 1. THE LATEST EDITION OF ALL CODES AND STANDARDS SHALL APPLY. OBTAIN ALL WORK PERMITS, APPROVALS, AND THE LIKE TO COMPLETE THE WORK READY FOR OPERATION.  
 2. CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOUR AND PLANT NECESSARY TO COMPLETE THE WORK AS SHOWN ON DRAWINGS OR HEREIN.  
 3. ALL WORKMANSHIP AND FABRICATION SHALL MEET STANDARDS SET FOR THIS TRADE. ALL WORK TO BE DONE BY COMPETENT AND EXPERIENCED WORKMEN.  
 4. IN THE CASE OF THE CONTRACTOR USING PRODUCTS OTHER THAN SPECIFIED, THIS WILL INCLUDE ALTERNATE AND/OR APPROVED EQUAL ITEMS THAT MAY INCUR ADDITIONAL COSTS DUE TO DIMENSION DIFFERENCE, MODIFICATION TO EXISTING STRUCTURES, POWER, AND CONTROL REQUIREMENTS; CONTRACTOR MUST BEAR ALL ADDITIONAL COSTS TO MAKE SYSTEMS FUNCTIONAL.  
 5. ALL EQUIPMENT AND PIPING REQUIRING SUPPORT SHALL BE SECURED TO THE BUILDING STRUCTURE.  
 6. WIRE HANGERS OR PERFORATED STRAPS WILL NOT BE PERMITTED.  
 7. HANGERS AND SUPPORTS SHALL NOT DAMAGE OR PIERCE INSULATION.  
 8. ALL HORIZONTAL PIPING SHALL BE SUPPORTED WITH GALV. HANGER ROD, 'CANSTRUT' OR PAINTED IRON ANGLE MEMBERS, CLAMPS AND SADDLES.  
 9. PIPE LINES SHALL RUN PARALLEL AND GROUP CLOSELY TO EACH OTHER. VERTICAL AND HORIZONTAL PIPE RUNS SHALL BE PARALLEL ALONG BUILDING LINES.  
 10. ALL CHANGES IN DIRECTION SHALL BE MADE WITH FITTINGS.  
 11. ALL PIPES SHALL BE CUT ACCURATELY TO MEASUREMENTS TAKEN ON SITE  
 12. GRADE ALL WATER PIPE FOR PROPER DRAINAGE AND INSTALL 1/2" DRAIN VALVE WITH 1/2 THREADED HOSE END AT LOW POINT IN MECH. ROOM.  
 13. UNIONS AND FLANGES SHALL BE PROVIDED AT ALL EQUIPMENT REQUIRING DISCONNECTION FOR REPAIRS OR REPLACEMENT, LOCATED BETWEEN SHUT OFF VALVES AND EQUIPMENT. ALL UNIONS SHALL BE ACCESSIBLE.  
 14. INSTALL WATER HAMMER ARRESTOR AT PLUMBING RISES, FIXTURE GROUPS, AND QUICK SHUT OFF VALVE OUTLETS. AT COMPLETION OF WORK, WATER SYSTEM MUST BE WATER HAMMER FREE UNDER NORMAL OPERATION.  
 15. SHUT OFF VALVES SHALL BE PROVIDED WHERE INDICATED AND SPECIFIED. IF NOT INDICATED, OR SPECIFIED DIRECTLY, VALVES SHALL BE INSTALLED ON MAIN BRANCHES AT POINT OF TAKE OFF FROM SUPPLY MAIN, ON EACH INDIVIDUAL PIECE OF EQUIPMENT INLET AND OUTLET TO PERMIT UNIT REMOVAL WITHOUT AFFECTING OPERATION OF SYSTEM. LOCATE VALVES FOR ACCESS AND OPERATION. DO NOT LOCATE VALVE STEMS BELOW HORIZONTAL.  
 16. ALL FLOOR DRAINS SHALL HAVE A 18" X 18" CHLORINATED POLYETHYLENE(CPE) WATERPROOF MEMBRANE INSTALLED AROUND BODY OF DRAIN AND BURIED IN THE CONCRETE. TO FORM A WATER TIGHT BARRIER. THE MEMBRANE MUST FORM A WATER TIGHT SEAL WITH DRAIN BODY.  
 17. PROVIDE CLEAN OUTS IN ALL DRAINS, AND SOIL PIPE WHERE OBSTRUCTIONS MIGHT OCCUR, AT THE BASE OF EACH STACK, AT CHANGE OF DIRECTION MORE THAN 45 DEGREES, AT THE END OF ALL HORIZONTAL PIPES, AND AT 50' INTERVALS ALONG STRAIGHT RUNS AS WHERE SHOWN ON DRAWINGS.  
 18. ALL WATER PIPING SHALL BE DEGREASED, FLUSHED, CLEANED AND PRESSURE TESTED BEFORE CONCEALING AND FILLING.  
 19. PROVIDE CHROME PLATED ESCUTCHEON PLATES FOR ALL EXPOSED PIPING THROUGH FINISHED WALLS AND FLOORS.  
 20. WHERE OPENINGS ARE MADE IN BUILDING STRUCTURE, SEAL OPENINGS TO PROVIDE WEATHER TIGHT WATER PROOF SEAL.  
 21. PROVIDE 3M BRAND FIRE BARRIER CP-25WB CAULK FOR ALL PIPING THROUGH FIRE RATED WALLS AND FLOORS ASSEMBLIES.  
 22. BEFORE START OF WORK ON INSTALLATION OF PIPING AND SEWERS, CHECK ALL LEVELS TO ENSURE ADEQUATE FALL ON THE VARIOUS SEWERS AND PIPES. IN THE EVENT THE CONTRACTOR FAILS TO DO THESE CHECKS AND THEN NOTIFIES CONTRACT ADMINISTRATOR OF DISCREPANCIES, ANY SUBSEQUENT EXPENSE SHALL BE BORNE BY THE CONTRACTOR.  
 23. THE PLANS ARE CONSIDERED DIAGRAMMATIC ONLY AND THE CONTRACT ADMINISTRATOR RESERVES THE RIGHT TO CHANGE LOCATION OF EQUIPMENT OR PIPING WITHIN 10 FEET OF WHERE SHOWN ON PLANS, PROVIDED SUCH CHANGE IS MADE BEFORE INSTALLATION.  
 24. IF, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE PIPING AND EQUIPMENT IS NOT ADEQUATELY BRACED OR SUPPORTED, ADDITIONAL BRACING OR SUPPORT MUST BE PROVIDED AT NO EXTRA COST TO THE CITY.  
 25. SYSTEM SCHEMATICS SHOWN ON THE DRAWINGS ARE MINIMUM REQUIREMENT. EQUIPMENT INSTALLATION, INCLUDING ALL CONTROLS, FITTINGS, AND ACCESSORIES SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION. THE CONTRACTOR SHALL BEAR AND INCLUDE ALL COSTS FOR SUCH INSTALLATIONS.

### 2. SECTION 15500 - FIRE PROTECTION


- ALL NEW SPRINKLER WORK SHALL BE INSTALLED AS PER NF-PA 13, 2010.
- RELOCATE SPRINKLER HEADS AS INDICATED ON DWG.
- SPRINKLER HEADS SHALL BE INSTALLED IN EVEN ROWS AND COLUMNS. THEY SHALL BE CENTERED ONE-WAY IN T-BAR CEILINGS.
- ALL EXISTING & RELOCATED SPRINKLER HEADS TO HAVE CHROME ESCUTCHEONS.

NOTES :

ORIGINAL STAMPED BY: D.A PALEY, P.ENG  
 DATE: 2010.09.21

NO.	REVISION/DESCRIPTION	BY	DATE
SEALS			

DRAWN BY	RCP	CHECKED BY	APPROVED
DATE	2010.09.21	USER	APPROVAL


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

**PROJECT**  
 PUBLIC SAFETY BUILDING  
 EXHIBIT PROCESSING AREA DEVELOPMENT

151 PRINCESS STREET

**SHEET TITLE**  
 PARTIAL BASEMENT FLOOR PLAN  
 PLUMBING & FIRE SPRINKLER  
 SPECIFICATIONS

SCALE	PROJECT NO.	SHEET NO.
AS SHOWN	2008-067	M8

DRAWING SHEET SIZE: A1 (841mm x 594mm) PLOT 1:1