

**IOSCO COUNTY BUILDING DEPARTMENT
P.O. BOX 88, 420 LAKE ST.
TAWAS CITY, MI. 48763
989-362-6511**

Permit MUST be Obtained BEFORE starting work, Inspections MUST be completed BEFORE any work is CONCEALED. COMMERCIAL & LARGE RESIDENTIAL Projects are subject to PLAN REVIEW & Approval. Engineered Drawings, Stamped Drawings, Specification listings & Project Time-Line Sheets MAY all be required before permit is Issued.

PLUMBING PERMIT “Generally” Covers the Following:

1. UNDERGROUND: From the Sewer Street Main or Septic Tank, Building Sewer to Building Drain Connection at exit from Building or House .
2. UNDERFLOOR: Rough-In of Below Grade Drain/ Waste/ Vent, Sewage Lift, Receiver & Pump Systems, Potable Water Piping , Process Piping, or any other Plumbing/ Fitting Systems to be covered with Permanent Floor System.
3. IN-WALL: Rough-In of Drain/ Waste/ Vent Piping-Fittings & Potable Water System located inside Structural Partitions Connecting Different levels of the Building, & Hidden by Permanent Wall / Ceiling covering Systems.
4. FINAL : Inspection of ALL fixtures, Appliances, Exposed Piping / Fitting Systems. Dynamic Testing of these systems For Appropriate performance according to State & Manufacturers Specifications, & Guidelines.

PERMIT INSPECTIONS Allow for up to THREE trips to job site, Excess Trips to Site will result in Additional Fees.

ALL EQUIPMENT MUST be Rated, Listed,& Approved for Intended Purposes by Appropriate Testing Agency MRC P2701

MANUFACTURER Installation Manual May be more restrictive & Take Precedence Over Code Rules Governing Equipment Installation in Some Cases. MRC P2603.21

CONCRETE Penetrations of Piping Requires Sleeving, Expansion allowance, and Corrosion Protection of Piping/ Fittings with ¼” Thickness Materials (Chased), Including PVC- DWV, Copper-Potable and all piping systems. MRC P2603.3

FIRE-STOPPING Required on Oversized Drilled Holes, Holes that Connect Two Levels of structure, Openings that will allow Smoke/ Fire to Access Upper levels of Structure MRC P2603.2

CUTTING, NOTCHING, DRILLING of Joists, Studs, Support Beam, and Bearing Wall assemblies is limited to Guidelines set forth in Code sections . ALL in-wall Piping/ Fittings MUST be Protected from Damage by Wall Fastening Systems, with Metal Plates Located to prevent penetration at Top, Center & Bottom entry Points of Walls & Assemblies MRC P2603.2

WATER SERVICE MAIN not less than ¾” Internal diameter. Water Distribution Mains (Hot/Cold), Should be extended to LAST FULL Fixture Grouping, & Supported as per hanger Schedule. Water System Maximum Pressure Allowed 80 psi, Minimum Pressure 40 psi MRC P2903.9.1 2903.8 2423.2

FULL FLOW Water Service Valves Required on Water Meters,Softeners,Filters,Heaters,& Backflow preventers MRC P2903.9.1

PARALLEL water distribution systems require individual service shutoff valves on each fixture . MRC 2903.8

MAXIMUM WATER FLOW RATES of Faucets, Water Closets, & Other Fixtures are listed on Chart. MRC P2903.2

WATER HAMMER ARRESTORS, are required on ALL Quick-Closing Valves, Such as Spring Assisted , Diaphragm Assisted, Electric Solenoid operated Valves, Generally Required at Dishwasher Water Supply, (hot only), Clothes Washer Supply , (Hot & Cold water supply) , Any High Volume Valve which causes Sudden Flow Stoppage & resulting Shock pulse MRC 2903.5

DIELECTRIC UNIONS Required at Connection of Copper and Galvanized Piping Systems MRC P2904.16

BATH/ SHOWER Fixtures MUST have Pressure Balanced Water Flow Control Valves, for Scald Prevention MRC P2708.3

Tub Shower / Shower Maximum Temperature SET to 120F at shower point. , Max Hot Water Temperature 140F MRC (definitions)

WHIRLPOOL Bathtubs MUST have Service Access to Allow removal of Pump/ Motor or other Mechanical Equipment MRC P2720.1

SHOWER DRAIN PANNING MAY be sloped to ¼” pr ft to weep holes in Shower Strainer base & Inspected BEFORE finish or Scratch floor is placed in Site-Built Shower enclosures. MRC P2709.1 & .3

WATER HEATERS MUST be Installed within a Drain Pan Over Wood Framing/Floor, Relief Valve may be dropped into drain pan, Pan MUST have piping to safe point of discharge, Some Overflow protection is required on all overhead Plumbing / Mechanical Equipment. MRC P2801.5 2803.6.1 (Water Heaters are Considered BOTH Plumbing & Mechanical Equipment)

WATER HEATER venting MUST be short & Direct as possible to Chimney connection. Combustion Air supply MUST be in same area as the Draft Hood, Temperature and Pressure Relief valve with Blowdown piping are Required to safe discharge point MRC P 1802.1 2426.10.9 2803.1

NO FUEL Fired Equipment Located in Closet, Bathroom, Sleeping Room, Toilet, Bedroom, W/Some Exceptions, i.e. Direct Vent , Sealed Combustion Devices, or Approved Heating equipment G 2406.2

AUTOMATIC RESIDENTIAL DISHWASHER MUST have a HIGH Loop in drain Piping to Assist with Vacuum break at Connection to Waste or Disposal Unit/Drain Connection. MRC P2717.3

GARBAGE DISPOSALS MUST Inlet Through a Waste Fitting with a director or Baffle as Integral part of waste fitting MRC P2707.1

AUTO-WASHER stand pipe may accept waste from Laundry Tray sink into Stand Pipe MRC 2706.2.1, 3201.6

VENTING, There are Seven Methods of Protecting Trap Seals with relief air (venting) Individual Venting, Common Venting, Wet Venting, Waste Stack Venting, Circuit Venting, Combination Waste & Venting, Island Fixture Venting, Air Admittance Valves, MRC P3101

MINIMUM of ONE Vent Stack Through Roof per building, Sized according to Code Charts . MRC P3102.1 (One Main Stack sized as per the Building Drain P.A. 733)

ALL TRAPS MUST be vented by an applicable method according to distance from & size of drain /trap piping according to Michigan Residential Code, or Michigan Plumbing Code, Depending on application . MRC P3201

MECHANICAL TRAP VENTERS ,(Approved Types only) MUST be installed according to Code, with Ventilation & Permanent Access for service purposes, May NOT be Buried in wall or Attic without Access. MRC P3114

SEWER,DRAIN,WASTE,VENT PIPING are sized from Drain FixtureUnits Chart according to total of fixtures served on branches, to mains and according to length & grade on same piping, there is no rule of thumb to calculate piping sizes MRC 3005

VERTICAL Drain/ Waste/Vent Piping (Stacks), MAY have connections to other pipes using Sanitary or Vent Tee connectors MRC P3005 (Exception: dry vent tee on its back as a cleanout only) No Flat Venting, Dry Vents must be Rolled Up.

HORIZONTAL Drain/ Waste/ Vent Piping MUST be evenly graded Downhill, According to Code and Size of Pipe, Toward an Exit Point, ALL pipes entering Horizontal Drain Piping MUST connect with a WYE or Combination Wye & 45 elbow Fitting. MRC Table P3005.4.2 3005.1

CLEANOUTS are Required to be full size of the main served, located at: Base of Vertical stacks, Every 40 ft. Horizontal interior piping, Every 100 ft of exterior piping, Change of direction of 90 degrees, Within 10ft of Building Exit point . MRC P3005.2 , 3005.2.7 3005.2

BACKFLOW PREVENTERS are required to comply as follows MPC 608, Commercial Dishwasher, (chemical type) ASSE-1015 Hose Bibbs (laundry sink spout) ASSE 1060, Beverage Dispenser ASSE-1020, Domestic Space Heating Boiler ASSE-1012, With Treated Fluids ASSE-1013, Lawn Sprinkler Systems Reduced Pressure Zone Types,

HANGERS as per Spacing PVC=4ft. , Steel Pipe= 12ft, Copper to 1 ¼"=6ft, Cast Iron= 5ft, PEX=32", ABS= 5ft. MPC 308.5 MRC 2605.1

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