

**PLUMBING DESIGN CRITERIA AND ADDITIONAL PROJECT REQUIREMENTS**

1. General:
  - A. Entire Installation Shall Comply With All Local And State Codes And Other Authorities Having Jurisdiction.
2. Applicable Codes And References:
  - A. International Building Code (IBC), 2012 Edition
  - B. International Plumbing Code (IPC), 2012 Edition
3. Domestic Water:
  - A. A New Backflow Preventer Shall Be Provided At The Incoming Water Service If One Does Not Already Exist. Contractor Shall Verify On Site. Water Piping Shall Extend To All Plumbing Fixtures And Equipment Which Require Domestic Water, Complete With Hangers, Anchors, Fittings And Valves.
  - B. All Piping Shall Be Copper.
  - C. Piping Sizes Are Based On The Governing Codes With A Maximum Velocity Of 8 Ft. Per Second For Flush Valves And 4 Ft. Per Second For Non-Flush Valves.
  - D. All Water Piping Shall Be Insulated.
4. Sanitary And Vent:
  - A. Sanitary Drainage Including Complete Venting, Connections To Fixtures, Drains And Cleanouts Shall Be Provided.
  - B. Pipe Sizes Are Based On The Governing Codes.
  - C. Sanitary Drain Lines Shall Have A Minimum 1/4" Pitch Per Foot For 3" And Smaller, 1/8" Pitch For 4" Or Larger.
  - D. All Above Ground Piping And Underground Piping Shall Be Schedule 40 PVC Piping With DWV Pattern Fittings According To ASTM D2665. Joining Method Shall Be Socket Welded Using ASTM D2564 Solvents.
5. Water Conservation:
  - A. All New Plumbing Fixtures Shall Meet The Requirements Of And Be Installed In Accordance With The Governing Codes.
6. Horizontal Piping Support:
  - A. Horizontal Pipe Of The Following Materials Shall Be Supported According To The Manufacturer's Recommendations But Not Less Than The Distances Listed Below. No Piping Is To Be Supported Directly From The Roof Deck.
    - 1) Cast Iron Soil Pipe - Five (5) Foot Intervals Except Where Ten (10) Foot Lengths Of Cast Iron Soil Pipe Are Used, Ten (10) Foot Intervals Between Supports Are Acceptable.
    - 2) Steel Threaded Pipe - Three Quarter (3/4) Inch In Diameter Or Less - Ten (10) Foot Intervals. One (1) Inch And Over - 12 Foot Intervals.
    - 3) Copper Tube (1 1/4 Inch Or Less) - Six (6) Foot Intervals. Copper Tube (1 1/2 Inch Or Over) - Ten (10) Foot Intervals.
    - 4) Plastic (PVC And ABS) Pipe (1 1/2 Inch Or Less) - Three (3) Foot Intervals, (2 Inch Or Over) - Four (4) Foot Intervals.
    - 5) All Piping In Exposed Locations To Route Along Walls Or Structure.
7. Seismic:
  - A. All Support Systems (Supports, Hangers, Anchors, Guides, Bracing, Fasteners, Welds, Etc.) For Equipment And Systems Installed Or Revised As Part Of This Contract Shall Be Designed, Selected And Installed By The Contractor To Resist All Seismic, Wind And Gravity Loads. The Codes Listed Under The "Design Criteria" Section Of These Documents Have Specific Requirements Concerning The Application Of These Loads, As Well As Other Design Requirements. Under Certain Conditions, The Applicable Codes Require These Loads, Or A Combination Of These Loads, Be Considered As "Coincidental". The Contractor Shall Also Be Responsible For Confirming That The Codes Of The Building Structure Where These Support Systems Are Attached Is Able To Resist The Design Loads Transferred To This Building Component. The Contractor To Provide Seismic Design Drawings And Details From A Seismic Engineer. The Drawings Are To Be Signed And Sealed.

**PLUMBING GENERAL NOTES**

1. General:
  - A. Inverts And Exact Locations Of All Existing Utilities Shall Be Checked Before Proceeding With The Installation.
  - B. All Plumbing Work Shall Be Coordinated With All Other Trades Before Proceeding With The Installation. No Changes Are To Be Made In Plumbing Layout Without Written Permission By The Architect Or Engineer.
  - C. No Piping Shall Be Run Exposed In Finished Areas Accessible To Customers Such As The Dining Room And Restrooms.
  - D. All Plumbing Work Shall Be Prepared In Strict Accordance With The Specifications And With The Currently Adopted Edition Of The Prevailing State Code As Well As All Local Regulations That May Apply. In Case Of Conflict Between The Contract Documents And A Governing Code Or Ordinance The More Stringent Standard Shall Apply.
  - E. Provide Dielectric Fittings, Couplings, Or Spacers Whenever Dissimilar Materials Are Joined Or Otherwise Come Into Contact With Each Other.
  - F. Roughing Dimensions Of Fixtures Must Be Coordinated With The General Contractor.
  - G. All Pipe Diameters Are For Information Only, Plumbing Contractor Shall Verify Sizes With The Requirements Of The Governing Codes.
2. Domestic Water:
  - A. Insulate All Water Piping Except Where Exposed To Fixtures With 1/2-Inch Fiberglass Insulation With Non-combustible UL Rated Vapor Barrier Or Closed Cell Flexible Insulation Equal To Armaflex II.
  - B. Provide Shut-Off Valves On Hot And Cold Water Supply Pipes At Each Fixture.
  - C. At Each Hot Water Return Piping Connection To The Hot Water Supply Piping Contractor Shall Furnish And Install Isolation, Balancing And Check Valves. Balance to 1 GPM Unless Otherwise Noted.
  - D. Access Panels Shall Be Provided As Necessary To Allow For Access To Valves And Water Hammer Arrestors. All Access Panels Shall Be Provided And Installed By The General Contractor. Plumbing Contractor Shall Be Responsible For Their Location.
  - E. All Work Shall Be Properly Tested, Balanced And Flashed And Disinfected.
  - F. Provide Shut-Off Valves At All Domestic Water Branch Piping Connections.
3. Sanitary / Storm:
  - A. Cleanouts In Horizontal Drain Lines Shall Be Spaced At Intervals Not To Exceed The Following Values:
 

Pipe Size:	Distance:
2-1/2" Or Less:	25 Feet
3" and 4":	50 Feet
More than 4":	85 Feet
  - B. Install Required Cleanouts To Clear Equipment And Fixtures.
  - C. All Fixtures Are Provided With Standard Trap And Cleanout.
- Natural Gas:
  - A. All Natural Gas Piping Shall Be Schedule 40 Black Steel Piping Unless Otherwise Directed In Documents And Specifications
  - B. Natural Gas Piping, Valves, And Fittings Installed Outdoors Shall Be Provided With Minimum Two Coats Of UV And Corrosion Resistant Safety Yellow Enamel Paint.
  - C. Natural Gas Piping Shall Not Be Routed Within Return Air Plenums.

**PARTIAL SYMBOLS & ABBREVIATIONS**

Identifier	Description	Identifier	Description
	Connect To Existing	CO	Cleanout
	Disconnect From Existing	CW	Cold Water
	Existing Equipment	DFU	Drainage Fixture Units
	Demo Equipment	FCO	Floor Cleanout
	New Equipment	FD	Floor Drain
	Equipment Type	G	Gas
	Equipment Number	GCO	Grade Cleanout
	Kitchen Equipment Tag	GPM	Gallons Per Minute
	Existing Piping To Remain	HB	Hose Bibb
	Existing Piping To Be Removed	HW	Hot Water
	Sanitary Piping Above Floor	HWR	Hot Water Return
	Sanitary Piping Below Floor	LAV	Lavatory
	Vent Piping	RD	Roof Drain
	Pipe Up Through Floor Above Or Through Section Cut Line	SA	Shock Arrestor
	Pipe Drop / Offset Down	TP	Trap Primer
	Sanitary Clean Out	V	Vent
	Floor Clean Out	VTR	Vent Through Roof
	Grade Clean Out	WC	Water Closet
	Wall Cleanout	WCO	Wall Clean Out
	Floor Drain (See Schedules)	WH	Wall Hydrant
	Cold Water Piping	WSFU	Water Supply Fixture Units
	Hot Water Piping		
	Hot Water Return Piping		
	Gate Valve		
	Ball Valve		
	Check Valve		
	Backflow Preventer		
	Pipe Up Through Floor Above Or Through Section Cut Line		
	Pipe Drop / Offset Down		
	Water Meter Assembly		
	Wall Hydrant / Hose Bib		
	Existing Piping To Remain		
	Existing Piping To Be Removed		
	Gas Piping		
	Gas Cock		
	Gas Meter Assembly		



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DATE: July 30, 2019

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