CITY OF NORTH MIAMI BEACH
BUILDING DEPARTMENT

Commercial Plan Review Guidelines

(Plumbing Review)

Project Address: _____

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Instructions for using this form:

1. This form provides a list of code requirements that must be verified by the Building Department before the issuance of a building permit.
2. Code references are to the 2007 Florida Building Code (unless otherwise noted). Suffixes identify the code volume as follows:

   Building (BI) - Existing (Ex) - Fuel/Gas (Gs) - Mechanical (Me) - National Electric Code (NEC) - Plumbing (Pl) - Residential (Re)

3. Provide the drawing number (Dwg. No.) where compliance with the referenced code section may be verified or check the N.A. box whenever the code provision is not applicable.

General Requirement	Specific Code Requirement	Code Section(s)	Dwg. No.	N.A.	Other Information
Administration	Submit construction documents • Site plans • Riser diagram • Water calculations	106.3.1 (BI) 106.3.5 (BI) 106.1.1 (BI)			
Plumbing Fixtures	Identify building occupancy	106.3.5 (BI) 403.1 (PI)			Occupancy Group
	Provide occupant load	403.1, 403.3 (PI)			Total occupant load
Fixture requirements	Determine the required number of fixtures in accordance with the occupant load	403.1, 419.2 (PI)			Refer to form CP-1 for fixture calculation worksheet
	Minimum fixtures	403.1 (PI)			
	Separate facilities	403.2 (PI)			
	Distribution of fixtures	403.3 (PI)			
	Employee fixture locations	403.4, 403.5, Table 403.1 404 (PI)			Accessible plumbing facilities
	Customer, patron and visitor facilities	403.4, 403.6 (PI)			
	Fixture spacing and location	405, 405.3.1 (PI)			
	Toilet room requirements	310 (PI)			
	Unisex toilet and bathing rooms	403.2, 403.7 (PI)			
Fixture, Fixture Fitting Standards, Installation Requirements	Water closets	420 (PI)			
	Urinals	419 (PI)			
	Lavatories	416 (PI)			
	Bidets	408 (PI)			
	Bathtubs	407 (PI)			
	Showers	417 (PI)			
	Whirlpool bathtubs	421 (PI)			
	Drinking fountains	410 (PI)			
	Service and Kitchen sinks	418 (PI)			
	Dishwashers	409 (PI)			
	Food waste grinders	413 (PI)			
	Grease traps and interceptors	1003.3 (PI)			
	Garbage can washers	414 (PI)			
	Clothes washers	406 (PI)			
	Laundry trays	415 (PI)			
	Floor drains	412 (PI)			
	Special fixtures	402.2, 423 (PI)			
	Flushing devices	425 (PI)			
	Faucets and fixture fittings	424 (PI)			
	Antiscald valves	424.3-424.5 (PI)			
	Backflow preventers	608 (PI)			
	Water conservation	MDC Ordinance 8-14			
	Traps	Chapter 10 1002.1-1003.1			Interceptors and Separators
	Storm Drainage	1101.1			

Water Supply and Distribution					
• Design	Burial depth	305.6 (PI)			
	Water service separation	603.2, 703.1 (PI)			
	System design	603.1, 604 (PI)			
	Maximum flow	604.4 (PI)			
	Pressure boosters	604.7, 606.5 (PI)			
	Water hammer	604.9 (PI)			
• Valves	Full open	606.1 (PI)			
	Shutoff	606.2 (PI)			
	Access	606.3 (PI)			
	Valve identification	606.4 (PI)			
• Hot Water System	Hot water requirements	607.1 (PI)			
	Tempered water for accessible hand washing facilities	607.1.1 (PI)			
	Return circulation	607.2 (PI)			
	Thermal expansion control	607.3 (PI)			
• Water Heaters	Approval	501.5 (PI)			
	Maximum temperature, tankless heaters	501.6 (PI)			
	Relief valves	504.4, 504.5 (PI)			
	Relief valve discharge	504.6 (PI)			
	Pan	504.7 (PI)			
• Protection of Potable Water	Identification of systems	608.8 (PI)			
	Backflow protection	608.1, 608.13 (PI)			
	Protection of outlets	608.15 (PI)			
	Connections to system	608.16 (PI)			
• Individual Water Supply	Quality and quantity	602.3.2, 602.3.3 (PI)			
	Pumping equipment	602.3.5, 612 (PI)			
• Disinfection of Potable System	Procedure/specifications submitted	610 (PI)			
• Drainage System	Fixture traps	1002 (PI)			
	Trap seals	1002.4 (PI)			
• Stacks	Sizing	710 (PI)			
	Horizontal offsets	711 (PI)			
	Change of direction	706.3 (PI)			
• Horizontal Branches	Sizing	710 (PI)			
	Pitch	704.1 (PI)			
	Connections to offsets and stacks	704.3 (PI)			
	Change of direction	706.1, 706.3 (PI)			
• Building Drain and Sewer	Sizing	710 (PI)			
	Pitch	704.1 (PI)			
	Sewage pump or ejector	712 (PI)			
	Backwater valves	715, 1101.9 (PI)			
• Cleanouts	Horizontal lines	708.3.1, 708.3.2			

		(PI)			
	Change of direction	708.3.3 (PI)			
Water Supply and Distribution • *Cleanouts (cont'd)*	Stacks	708.3A (PI)			
	Building drain junction	708.3.5 (PI)			
	Manholes	708.3.2,708.3.6 (PI)			
	Size	708.7 (PI)			
	Clearances	708.8, 708.9 (PI)			
• Indirect Waste	Where required	802.1 (PI)			
	Installation	802.2 (PI)			
	Waste receptors	802.3 (PI)			
	Standpipes	802.4 (PI)			
• Special Waste	Waste temperature	701.7, 803.1 (PI)			
	Corrosive waste	803.2 (PI)			
• Venting	Individual vents	907 (PI)			
	Common vents	908 (PI)			
	Wet venting	909 (PI)			
	Waste stack vents	910 (PI)			
	Circuit venting	911 (PI)			
	Relief vent	911.4 (PI)			
	Combination drain & vent	912 (Pi)			
	Island venting	913 (Pi)			
	Fixture vents	906 (PI)			
	Vent size	916 (PI)			
	Branch vents	916.4 (PI)			
	Sump vents	916.5 (PI)			
	Air admittance valves	917 (PI)			
	Main vent	903.1 (PI)			
	Vent stack	903.2 (PI)			
	Vent stack connection	903.4 (PI)			
	Vent headers	903.5 (PI)			
	Relief vents	914 (PI)			
	Drainage stack offsets	915 (PI)			
	Sizing	916.1 (PI)			
• Vent Installation	Vent terminals	904 (PI)			
	Vent grade	905.2 (PI)			
	Vent connection	905.1, 905.3 (PI)			
	Vertical rise	905.4 (PI)			
	Height above fixture	905.5 (PI)			
	Future fixtures	905.6 (PI)			
• Storm Drainage	Cleanouts	708, 1101.8 (PI)			
	Horizontal drain, storm sewer, conductor and leader sizing	1106.1-1106.3 (PI)			
	Roof gutter sizing	1106.6 (Pi)			
	Secondary roof drains	1107 (PI)			
	Combined sewers	1104.2, 1108 (PI)			
	Subsoil drains	1111 (PI)			

	Building subdrains	1112 (PI)			
Water Supply and Distribution					
• *Storm Drainage (cont)*	Roof drains	1105 (PI)			
	Controlled flow system	1110 (P1)			
Materials	Material identification and labeling	303.1, 303.4 (PI)			
• Drain, Waste and Vent Pipe	Above ground	702.1 (PI)			
	Underground	702.2 (PI)			
	Chemical waste	702.5 (PI)			
• Storm Drainage Pipe	Inside conductors	1102.2 (PI)			
	Underground	1102.3 (PI)			
	Subsoil drain	1102.5 (PI)			
	Roof drains	1102.6 (PI)			
• Building Sewer Pipe	Sanitary	702.3 (PI)			
	Storm	1102.4 (PI)			
• Water Supply Pipe	Water service	605.3 (PI)			
	Water distribution	605.4 (PI)			
	Lead-free	605.2 (PI)			
• Cleanouts	Plugs	708.2 (PI)			
• Joints and Connections	Approved type	605, 705 (PI)			
	Lead-free	605.14.3, 605.15.4 (PI)			
Piping Support and Installation	Hanger/support	308, Table 308.5 (PI)			
	Corrosion protection	305.1 (PI)			
	Stress and strain	305.3 (PI)			
	Annular space	305.4 (PI)			
	Footing and foundation protection	305.5 (PI)			
	Fastener penetration	305.8 (PI)			
	Waterproofing of openings	305.7 (PI)			
	Floodproofing	309 (PI)			
	Penetration protection	307.3 (PI)			
	Support intervals	308.5, 308.10 (PI)			
	Base of stacks	308.9 (PI)			
	Anchorage	308.7 (PI)			
	Bracing	308.6 (PI)			
Interceptors and Separators	Interceptors				
	• Approval	1003.2 (PI)			
	• Grease traps and interceptors	1003.3-1003.5 (PI)			
	• Venting	1003.9 (PI)			
	• Access	1003.10 (PI)			
	Separators				
	• Approval	1003.2 (PI)			
	Design	1003.4.2.1 (PI)			
	• Venting	1003.9 (PI)			
	• Access	1003.10 (PI)			

Fuel-Gas Piping	Material				
	• Piping materials	403.1-403.5.4 (Gs)			
	• Joints and connections	403.9-403.13 (Gs)			
	• Identification	401.5 (Gs)			
	Installation				
	Piping location	404.1, 404.2, 404.3 (Gs)			
	Piping protection	404.5-404.7 (Gs)			
	Piping through foundation walls	404.4 (Gs)			
	Minimum burial depth	404.9 (Gs)			
	Protection against corrosion	403.8, 404.8 (Gs)			
	Plastic pipe	404.14 (Gs)			
	Piping bends and changes direction	405 (Gs)			
Other Gas Piping Systems	Liquefied petroleum gas motor vehicle fuel-dispensing stations	412 (Gs)			
	Compressed natural gas motor vehicle fuel dispensing stations	413 (Gs)			
	Supplemental and standby gas supply	414 (Gs)			