



DEVELOPMENT SERVICES

PLAN REVIEW COMMERCIAL

PLUMBING CHECKLIST

This checklist is provided as a reference tool and is not intended to be exhaustive of all possible requirements. It may also include more items than a specific set of plans may encompass.

Referenced Codes:

- 2024 International Plumbing Code ([IPC](#))
- 2024 International Fuel Gas Code ([IFGC](#))
- 2024 International Building Code ([IBC](#))
- COSA Chapter 10 Amendments ([Chapter 10](#))

#	GENERAL PLUMBING REQUIREMENTS	✓	N/A
1.	Registered design professional's licenses to be listed per IB 103		
2.	Plans and calculations		
	a. Rooms are identified for use and/or process on floor plans		
	b. Riser diagram		
	c. Site plan		
	d. Water Calculations		

#	OCCUPANCY	✓	N/A
3.	Occupancy Group(s) (Chapter 3 IBC)		
4.	Occupancy Load (1004)		
5.	Verify the submittal of occupant load modification (IB 127) request, if applicable		

#	PLUMBING FIXTURE REQUIREMENTS	✓	N/A
6.	Verify minimum number required fixtures with FIXTURE TABLE sheet (403.1.1):		
7.	Separate facilities (403.2)		
8.	Public and employee toilet facilities (403.3)		
9.	Toilet facilities in covered mall buildings (403.3.4, 403.6)		
10.	Fixture spacing, location and installation (405) - See COSA Amendments		
11.	Location of fixtures and compartments (310.2, 405.3)		
12.	Urinal partitions (405.3.5)		

#	FIXTURE AND FIXTURE FITTING STANDARDS AND INSTALLATION	✓	N/A
13.	Clothes washers (406) - See COSA Amendments		
14.	Bathtubs (407)		

15.	Bidets (408)		
16.	Dishwashers (409)		
17.	Drinking fountains (410) - See COSA Amendments		
18.	Eyewash stations (411)		
19.	Faucets and fixture fittings (412)		
20.	Antiscald valves (412.3; 412.4; 412.5)		
21.	Temperature control devices and valves (412.7, 604.11, 613)		
22.	Head Shampoo sink faucets. (412.10)		
23.	Floor drains (413)		
24.	Floor sinks (414)		
25.	Flushing devices (415)		
26.	Food waste disposer units (416)		
27.	Garbage can washers (417)		
28.	Laundry trays (418)		
29.	Lavatories (419)		
30.	Manual food and beverage dispensing equipment (420)		
31.	Showers (421)		
32.	Sinks (422)		
33.	Special fixtures (402.2, 423)		
34.	Urinals (424) - See COSA Amendments		
35.	Water closets (425)		
36.	Elongated bowl and open front seat (425.2; 425.3)		
37.	Whirlpool bathtubs (426)		

#	WATER SUPPLY AND DISTRIBUTION	✓	N/A
38.	Design		
	a. Sewer depth (305.4.1)		
	b. Water service separation (603.2, 703.1)		
	c. System design (603.1, 604)		
	d. Maximum flow (604.4) - See COSA Amendments		
	e. Pressure boosters (604.7, 606.5)		
	f. Water hammer (604.9) – See COSA Amendments		
39.	Valves		
	a. Full open (606.1)		
	b. Shutoff (606.2) – See COSA Amendments		
40.	Hot water system		
	a. Hot water requirements (607.1)		
	b. Tempered water for public hand washing facilities – (419.5, 607.1)		
	c. Hot or tempered water supply to fixtures (607.2)		
	d. Thermal expansion control (607.3) – See COSA Amendments		
	e. Insulation of piping (607.5)		
41.	Water heaters		

	a.	Water heaters as space heaters (501.2)		
	b.	Approval (501.5)		
	c.	Maximum temperature, tankless heaters (501.6)		
	d.	Relief valves (504.6) – See COSA Amendments		
	e.	Pan (504.7)		
42.		Protection of potable water		
	a.	Backflow Preventers (608)		
	b.	Identification of non-potable water systems (608.9)		
	c.	Backflow protection (608.1, 608.14, 608.15) – See COSA Amendments		
	d.	Protection of outlets (608.16)		
	e.	Connections to potable water system (608.17) - See COSA Amend.		
43.		Individual water supply		
	a.	Quality and quantity (602.3.2, 602.3.3)		
	b.	Protection of supply (608.18)		
	c.	Pumping equipment (602.3.5)		
44.		Disinfection of potable system		
	a.	Procedure/specification submitted (610)		

#	BUILDING DRAIN AND SEWER SYSTEMS		✓	N/A
45.		General		
	a.	Fixture traps (1002)		
	b.	Trap seals (1002.4)		
	c.	Slope (Table 704.1)		
	d.	Stacks		
	e.	Sizing (710)		
	f.	Horizontal offsets (711)		
46.		Building drain and horizontal branches		
	a.	Sizing (710)		
	b.	Connection to offsets (704.3)		
47.		Sewer		
	a.	Sewer depth (305.4.1)		
	b.	Sizing (710)		
	c.	Sewage pump or ejector (712)		
	d.	Backwater valves (714, 1101.9)		
48.		Cleanouts		
	a.	Horizontal drains (708.1.1, 708.1.2)		
	b.	Building drain and sewer junction (708.1.3)		
	c.	Cleanout equivalent (708.1.6)		
	d.	Manholes (708.1.8) – See COSA Amendments		
	e.	Individual fixture (708.1.13) - See COSA Amendments		
49.		Indirect waste		
	a.	Installation (802.3)		

b.	Waste receptors (802.4) - See COSA Amendments		
c.	Standpipes (802.4.3)		
d.	Special waste		
e.	Waste temperature (702.5)		
f.	Corrosive waste (803.1)		

#	VENTING	✓	N/A
50.	Venting		
	a. Vent terminals (903, 903.1) – See COSA Amendments		
	b. Sump vents (906.5)		
	c. Vertical rise (905.4) – See COSA Amendments		
	d. Fixture vents (909)		
	e. Individual vents (910)		
	f. Common vents (911)		
	g. Wet venting (912)		
	h. Waste stack vents (913)		
	i. Circuit venting (914)		
	j. Relief vents (914.4)		
	k. Combination waste and vent (915) – See COSA Amendments		
	l. Island venting (916)		
	m. Vent connection (916.2)		
	n. Vent Installation below fixture flood rim (916.3)		
	o. Single-Stack Vent (917)- See COSA Amendments		
	p. Air admittance valves (918)		
51.	Stacks		
	a. Main vent (904.1)		
	b. Vent stack (904.2)		
	c. Vent stack connection (904.4)		
	d. Vent headers (904.5)		
	e. Drainage stack offsets (907)		
	f. Relief vents (908)		
	g. Sizing (906, 915.2.4)		
52.	Vent installation		
	a. Vent connection (905.1, 905.3)		
	b. Height above fixture (905.5)		
	c. Future fixtures (905.6)		

#	STORM DRAINAGE	✓	N/A
53.	Area rainfall rate: <u>4.2 INCHES PER HOUR</u>		
54.	Design		
	a. Cleanouts (708, 1101.8)		
	b. Roof drains (1105)		

c.	Horizontal drain sizing (1106.1, 1106.3)		
d.	Storm sewer sizing (1106.1, 1106.3)		
e.	Vertical conductor and leader sizing (1106.3, 1106.4)		
f.	Scuppers (1108)		
g.	Secondary roof drains (1108)		
h.	Combined storm (1109)		
i.	Controlled flow system (1110)		
j.	Subsoil drains (1111)		
k.	Building subdrains (1112)		

#	MATERIALS	✓	N/A
55.	Drain waste and vent pipe		
a.	Above ground (702.1)		
b.	Underground (702.2)		
c.	Chemical waste (702.6)		
56.	Storm drainage pipe		
a.	Inside conductors (1102.2)		
b.	Underground (1102.3)		
c.	Subsoil drain (1102.5)		
d.	Roof drains (1102.6)		
57.	Building sewer pipe		
a.	Sanitary (702.3) – See COSA Amendments		
b.	Storm (1102.4)		
58.	Water supply pipe		
a.	Water service (605.3) – See COSA Amendments		
b.	Water distribution (605.4) – See COSA Amendments		
c.	Lead-free (605.2) - See COSA Amendments		
59.	Cleanouts		
a.	Plugs (708.1.7)		
60.	Joints and connections		
a.	Approved type (605, 705) – See COSA Amendments		

#	INTERCEPTORS AND SEPARATORS	✓	N/A
61.	Interceptors and Separators (1003) – See COSA Amendments		
a.	Approval (1003.2) – See COSA Amendments		
b.	Grease interceptors (1003.3, 1003.4) – See COSA Amendments		
c.	Venting (1003.9)		
d.	Access (1003.10)		
e.	Food waste grinders (1003.3.2) – See COSA Amendments		
f.	Hydromechanical grease interceptors (1003.3.5)		
g.	Gravity grease interceptors (1003.3.7)		
62.	Separators		

a.	Where required (1003.4 – 1003.8)		
b.	Oil separator design (1003.4.2)		

#	HEALTH CARE PLUMBING	✓	N/A
63.	Water supply		
a.	Water supply protection (608.3.1)		
b.	Water service (609.2)		
c.	Hot Water (609.3)		
d.	Vacuum breaker installation (609.4)		
e.	Clinical, Hydrotherapeutic, and Radiological (609.6)		

#	ENGINEERED PLUMBING SYSTEMS	✓	N/A
64.	Sealed drawings, details and data submitted (107)		
65.	Design (105)		
66.	Inspection schedule (112)		
67.	Engineered venting (316, 917, 918, 919) – See COSA Amendments		
68.	Computerized drainage design (713)		

#	SPECIAL PIPING AND STORAGE SYSTEMS	✓	N/A
69.	Nonflammable medical gases (1202.1)		
70.	Nonmedical oxygen systems (1203.1)		

#	FUEL GAS SYSTEMS	✓	N/A
71.	Construction Documents - Site-Location of gas meter-Underground gas piping (107.1)		
72.	Appliance Location- Prohibited Locations (303.3) , Decorative Appliances (303.3.1) , Protection from vehicle damage (303.4)		
73.	Combustion Air Requirements: Verify requirements are met, Direct Vent, Mechanical combustion air supply (304)		
74.	Protection from fumes and gases (304.12)		
75.	Access and Service Space (306)		
76.	Gas Pipe Sizing-verify method used to size system based on, Gas Type, Table utilized, type of material, inlet pressure and pressure drop (402.3)		
77.	Gas Piping System Diagram (IB 103) Provide schematic of gas piping system and show system operating pressure, total foot of pipe for each section of pipe, location(s) of btu valves for each appliance, location of Meter(s), Valve(s) and appurtenances, floor plan showing location of appliances (IB 103)		
78.	Hybrid Pressure-System operating pressure, location of regulators (402.4.3)		
79.	Allowable Pressure Drop (402.6)		
80.	Piping Materials (403.1) , Plastic pipe and tubing (403.5) , LP-gas systems (403.5.2)		
81.	Piping system installation (404)		
82.	Sediment Trap-Shall be installed downstream of the appliance shutoff (408.4)		
83.	Shutoff Valves (409) , Prohibited Locations (409.1.2) , Access to shutoff valve (409.1.3)		
84.	Shutoff valves for multiple-house line systems (409.3)		

85.	MP Regulators (409.4)		
86.	Pressure Regulators Installation (410.1)		
87.	Venting of Regulators (410.3)		
88.	Venting of Appliances (503.1)		
89.	Gas Vent Termination(s) (503.6.4)		
90.	Specific Appliances (601)		