

# TABLE OF CONTENTS

<p><b>CHAPTER 1 ADMINISTRATION ..... 1</b></p> <p>Section</p> <p>101 General ..... 1</p> <p>102 Applicability ..... 1</p> <p>103 Department of Plumbing Inspection ..... 2</p> <p>104 Duties and Powers of the Code Official ..... 2</p> <p>105 Approval ..... 2</p> <p>106 Permits ..... 3</p> <p>107 Inspections and Testing ..... 5</p> <p>108 Violations ..... 6</p> <p>109 Means of Appeal ..... 6</p> <p><b>CHAPTER 2 DEFINITIONS ..... 9</b></p> <p>Section</p> <p>201 General ..... 9</p> <p>202 General Definitions ..... 9</p> <p><b>CHAPTER 3 GENERAL REGULATIONS ..... 17</b></p> <p>Section</p> <p>301 General ..... 17</p> <p>302 Exclusion of Materials Detrimental to the Sewer System ..... 17</p> <p>303 Materials ..... 17</p> <p>304 Rodentproofing ..... 17</p> <p>305 Protection of Pipes and Plumbing System Components ..... 18</p> <p>306 Trenching, Excavation and Backfill ..... 18</p> <p>307 Structural Safety ..... 19</p> <p>308 Piping Support ..... 19</p> <p>309 Flood Hazard Resistance ..... 20</p> <p>310 Washroom and Toilet Room Requirements ..... 20</p> <p>311 Toilet Facilities for Workers ..... 21</p> <p>312 Tests and Inspections ..... 21</p> <p>313 Equipment Efficiencies ..... 22</p> <p>314 Condensate Disposal ..... 22</p> <p><b>CHAPTER 4 FIXTURES, FAUCETS AND FIXTURE FITTINGS ..... 25</b></p> <p>Section</p> <p>401 General ..... 25</p> <p>402 Fixture Materials ..... 25</p> <p>403 Minimum Plumbing Facilities ..... 25</p> <p>404 Accessible Plumbing Facilities ..... 28</p>	<p>405 Installation of Fixtures ..... 28</p> <p>406 Automatic Clothes Washers ..... 29</p> <p>407 Bathtubs ..... 29</p> <p>408 Bidets ..... 29</p> <p>409 Dishwashing Machines ..... 30</p> <p>410 Drinking Fountains ..... 30</p> <p>411 Emergency Showers and Eyewash Stations ..... 30</p> <p>412 Floor and Trench Drains ..... 30</p> <p>413 Food Waste Grinder Units ..... 30</p> <p>414 Garbage Can Washers ..... 30</p> <p>415 Laundry Trays ..... 30</p> <p>416 Lavatories ..... 30</p> <p>417 Showers ..... 31</p> <p>418 Sinks ..... 32</p> <p>419 Urinals ..... 32</p> <p>420 Water Closets ..... 32</p> <p>421 Whirlpool Bathtubs ..... 32</p> <p>422 Health Care Fixtures and Equipment ..... 32</p> <p>423 Specialty Plumbing Fixtures ..... 33</p> <p>424 Faucets and Other Fixture Fittings ..... 33</p> <p>425 Flushing Devices for Water Closets and Urinals ..... 34</p> <p>426 Manual Food and Beverage Dispensing Equipment ..... 34</p> <p>427 Floor Sinks ..... 34</p> <p><b>CHAPTER 5 WATER HEATERS ..... 35</b></p> <p>Section</p> <p>501 General ..... 35</p> <p>502 Installation ..... 35</p> <p>503 Connections ..... 35</p> <p>504 Safety Devices ..... 35</p> <p>505 Insulation ..... 36</p> <p><b>CHAPTER 6 WATER SUPPLY AND DISTRIBUTION ..... 37</b></p> <p>Section</p> <p>601 General ..... 37</p> <p>602 Water Required ..... 37</p> <p>603 Water Service ..... 37</p> <p>604 Design of Building Water Distribution System ..... 38</p> <p>605 Materials, Joints and Connections ..... 39</p>
--	--

**TABLE OF CONTENTS**

606 Installation of the Building Water Distribution System . . . . . 44  
 607 Hot Water Supply System . . . . . 45  
 608 Protection of Potable Water Supply . . . . . 46  
 609 Health Care Plumbing . . . . . 50  
 610 Disinfection of Potable Water System . . . . . 51  
 611 Drinking Water Treatment Units . . . . . 51  
 612 Solar Systems . . . . . 51  
 613 Temperature Control Devices and Valves . . . . . 51

**CHAPTER 7 SANITARY DRAINAGE . . . . . 53**

Section

701 General . . . . . 53  
 702 Materials . . . . . 53  
 703 Building Sewer . . . . . 55  
 704 Drainage Piping Installation . . . . . 55  
 705 Joints . . . . . 55  
 706 Connections Between Drainage Piping and Fittings . . . . . 58  
 707 Prohibited Joints and Connections . . . . . 59  
 708 Cleanouts . . . . . 59  
 709 Fixture Units . . . . . 60  
 710 Drainage System Sizing . . . . . 60  
 711 Offsets in Drainage Piping in Buildings of Five Stories or More . . . . . 60  
 712 Sumps and Ejectors . . . . . 63  
 713 Health Care Plumbing . . . . . 64  
 714 Computerized Drainage Design . . . . . 65  
 715 Backwater Valves . . . . . 65

**CHAPTER 8 INDIRECT/SPECIAL WASTE . . . . . 67**

Section

801 General . . . . . 67  
 802 Indirect Wastes . . . . . 67  
 803 Special Wastes . . . . . 68  
 804 Materials, Joints and Connections . . . . . 68

**CHAPTER 9 VENTS . . . . . 69**

Section

901 General . . . . . 69  
 902 Materials . . . . . 69  
 903 Outdoor Vent Extension . . . . . 69  
 904 Vent Terminals . . . . . 69  
 905 Vent Connections and Grades . . . . . 70  
 906 Fixture Vents . . . . . 70  
 907 Individual Vent . . . . . 70

908 Common Vent . . . . . 70  
 909 Wet Venting . . . . . 70  
 910 Waste Stack Vent . . . . . 71  
 911 Circuit Venting . . . . . 71  
 912 Combination Drain And Vent System . . . . . 72  
 913 Island Fixture Venting . . . . . 72  
 914 Relief Vents—Stacks of More Than 10 Branch Intervals . . . . . 72  
 915 Vents for Stack Offsets . . . . . 73  
 916 Vent Pipe Sizing . . . . . 73  
 917 Air Admittance Valves . . . . . 74  
 918 Engineered Vent Systems . . . . . 75  
 919 Computerized Vent Design . . . . . 75

**CHAPTER 10 TRAPS, INTERCEPTORS AND SEPARATORS . . . . . 77**

Section

1001 General . . . . . 77  
 1002 Trap Requirements . . . . . 77  
 1003 Interceptors and Separators . . . . . 77  
 1004 Materials, Joints and Connections . . . . . 79

**CHAPTER 11 STORM DRAINAGE . . . . . 81**

Section

1101 General . . . . . 81  
 1102 Materials . . . . . 81  
 1103 Traps . . . . . 82  
 1104 Conductors and Connections . . . . . 82  
 1105 Roof Drains . . . . . 82  
 1106 Size of Conductors, Leaders and Storm Drains . . . . . 82  
 1107 Secondary (Emergency) Roof Drains . . . . . 89  
 1108 Combined Sanitary and Storm System . . . . . 90  
 1109 Values for Continuous Flow . . . . . 90  
 1110 Controlled Flow Roof Drain Systems . . . . . 90  
 1111 Subsoil Drains . . . . . 90  
 1112 Building Subdrains . . . . . 90  
 1113 Sumps and Pumping Systems . . . . . 90

**CHAPTER 12 SPECIAL PIPING AND STORAGE SYSTEMS . . . . . 91**

Section

1201 General . . . . . 91  
 1202 Medical Gases . . . . . 91  
 1203 Oxygen Systems . . . . . 91

**CHAPTER 13 REFERENCED STANDARDS ..... 93**

**APPENDIX A PLUMBING PERMIT FEE SCHEDULE..... 101**

Permit Issuance ..... 101

Unit Fee Schedule ..... 101

Other Inspections and Fees..... 101

**APPENDIX B RATES OF RAINFALL FOR VARIOUS CITIES ..... 103**

**APPENDIX C GRAY WATER RECYCLING SYSTEMS ..... 105**

Section

C101 General..... 105

C102 Systems for Flushing Water Closets and Urinals..... 105

C103 Subsurface Landscape Irrigation Systems ..... 106

**APPENDIX D DEGREE DAY AND DESIGN TEMPERATURES ..... 111**

**APPENDIX E SIZING OF WATER PIPING SYSTEM ..... 117**

Section

E101 General..... 117

E102 Information Required ..... 117

E103 Selection of Pipe Size ..... 117

E201 Selection of Pipe Size ..... 134

**APPENDIX F STRUCTURAL SAFETY ..... 137**

Section

F101 Cutting, Notching and Boring in Wood Members ..... 137

**APPENDIX G VACUUM DRAINAGE SYSTEM .. 139**

**INDEX..... 141**

