

SANTA MONICA FIRE DEPARTMENT  
 FIRE PREVENTION DIVISION  
 333 Olympic Drive 2<sup>nd</sup> Floor  
 Santa Monica CA 90401  
 310.458.8915 / Fax 310.395.3395

**FIRE SPRINKLER AND STANDPIPE SYSTEM DEFICIENCY NOTICE**

The items listed below are the minimum requirements to be included on plans submitted for review. The California Fire Code (CFC), California Building Code (CBC), NFPA 13 and the Santa Monica Municipal Code (SMMC) prohibit any work without approved plans and a Fire Dept. permit. Unless otherwise noted all code references are from NFPA 13 or NFPA 14.

Not SHOWN	INCORRECT	ITEM	CODE SECTION
		<b>I. WATER SUPPLY</b>	
<input type="checkbox"/>	<input type="checkbox"/>	A. Minimum Water Supply .....	11.2.3.2.1/15.1.3
<input type="checkbox"/>	<input type="checkbox"/>	B. Interconnection to Water Supply.....	15.2.1
<input type="checkbox"/>	<input type="checkbox"/>	C. Fire Department Connection (Address side within 40 feet of curb).....	Policy 2-4
<input type="checkbox"/>	<input type="checkbox"/>	D. Transition from Underground to System.....	15.1.8
<input type="checkbox"/>	<input type="checkbox"/>	E. Flow Test Information (Provide copy of Water Div. flow test) .....	14.2
<input type="checkbox"/>	<input type="checkbox"/>		
		<b>II. DESIGN CRITERIA</b>	
<input type="checkbox"/>	<input type="checkbox"/>	A. Hazard Classification in Accordance with CBC Std. Table 1-4.7 .....	5.6
<input type="checkbox"/>	<input type="checkbox"/>	B. Density and Area of Sprinkler Operation .....	11.2.3.2
<input type="checkbox"/>	<input type="checkbox"/>	C. Sprinkler Spacing, Area of Coverage, and Deflector Position .....	8.1.1
<input type="checkbox"/>	<input type="checkbox"/>	D. Speculative Building (Tenant not known at time of submittal) – Min. Design Criteria Ordinary Hazard 2 w/ Min. Design Area 3,000 sq .ft .....	Policy 2-5
<input type="checkbox"/>	<input type="checkbox"/>	E. Special Hazard Occupancy - Misc. Storage - < 12-ft & <10% of floor area or 4000-sq. ft. (see definition 1-4.2).....	3.3.15
		<b>III. UNDERGROUND AND SUPPLY</b>	<b>10.7</b>
<input type="checkbox"/>	<input type="checkbox"/>	A. Valves (Incl. mfg., model, listing info.) .....	6.4
<input type="checkbox"/>	<input type="checkbox"/>	B. Pipe, Fittings, and Materials (Incl. mfg., model, listing info.) .....	10.1.1/10.2.1
<input type="checkbox"/>	<input type="checkbox"/>	C. Installation	
<input type="checkbox"/>	<input type="checkbox"/>	1. Joining Methods .....	10.3
<input type="checkbox"/>	<input type="checkbox"/>	2. Thrust Blocking, Rods, Clamps, etc.....	10.8.2
<input type="checkbox"/>	<input type="checkbox"/>	3. Depth of Bury (The actual depth please) .....	10.4
<input type="checkbox"/>	<input type="checkbox"/>	D. Double Check Detector Assembly (Mfg., model number, actual friction loss for device, location, etc.).....	14.1.3(41)
		<b>IV. WORKING DRAWINGS (ALL information and details)</b>	<b>NFPA 13</b>
<input type="checkbox"/>	<input type="checkbox"/>	A. Full Height Cross Section .....	14.1.3(4)
<input type="checkbox"/>	<input type="checkbox"/>	B. Ceiling Construction and Method of Protection for Nonmetallic Pipe.....	14.1.3(4)
<input type="checkbox"/>	<input type="checkbox"/>	C. Location of Partitions and Fire Walls .....	14.1.3(5)(6)
<input type="checkbox"/>	<input type="checkbox"/>	D. Occupancy Class of Each Room or Area .....	14.1.3(7)
<input type="checkbox"/>	<input type="checkbox"/>	E. Location and Size of Concealed Spaces, Attics, etc.....	14.1.3(8)
<input type="checkbox"/>	<input type="checkbox"/>	H. Total Area Protected By System on Each Floor and Total Heads .....	14.1.3(14)
<input type="checkbox"/>	<input type="checkbox"/>	J. Nominal Pipe Size, Cut Lengths or Center to Center Dimensions.....	14.1.3(19)
<input type="checkbox"/>	<input type="checkbox"/>	K. Types of Fittings and Joints, Location of ALL Welds and Bends (Contractor shall specify on drawings any sections to be shop welded and type of fittings or formations to be used) .....	14.1.3(21)
<input type="checkbox"/>	<input type="checkbox"/>	O. Piping Provisions for Flushing .....	14.1.3(29)
<input type="checkbox"/>	<input type="checkbox"/>	P. When Addition is Made to Existing System Show Enough On Plans To Make All Conditions Clear .....	14.1.3(30)
<input type="checkbox"/>	<input type="checkbox"/>	Q. Name, Address, Telephone, and License Number of Contractor .....	14.1.3(33)
<input type="checkbox"/>	<input type="checkbox"/>	R. Standpipe Systems.....	<b>NFPA 14</b>
<input type="checkbox"/>	<input type="checkbox"/>	1. Water Supply - Min. Flows and Pressures.....	5-7, 5-8, 5-9
<input type="checkbox"/>	<input type="checkbox"/>	2. Fire Department Connection .....	2-9, 4-3/4-15.2
<input type="checkbox"/>	<input type="checkbox"/>	3. Piping, Valves, and Fittings (mfg., model, listing, etc.) .....	Chap. 2, 4-2
<input type="checkbox"/>	<input type="checkbox"/>	4. Hose Valves - PRV, Location, Clearances, Access.....	4-1/2-7

**V. SYSTEM COMPONENTS**

- A. Pipe and Tube
  - 1. Pipe or Tube Type and Schedule of Wall Thickness ..... 6.3/14.1.3 (18)
- B. Fire Sprinklers
  - 1. Make, Type and Nominal Orifice Size of Sprinklers ..... 14.1.3(12)
  - 2. Temperature, Rating and Location of High-temp. Sprinklers ..... 8.3.2/14.1.3 (13)
  - 3. Listed Residential Heads Required in Residential Occupancies ..... CFC 903.3.2
  - 4. Sprinkler Spacing and Location - Obstructions, etc. .... 8.1.1 & 8.5-8.12
  - 5. Mfg. Data Sheet - Incl. Min. Flows/Pressures for area of coverage... 14.1.4
- C. Hangers and Seismic Protection
  - 1. Type and Location of Hangers, Sleeves, Braces and Method of Securing Sprinklers ..... 9.1/14.1.3 (22)
  - 2. Materials and Configuration (mfg., model, listing, etc.)..... 9.1.1.4/9.1.1.5
  - 3. Earthquake Bracing – Method of Calculating Loads (Show Calc's) Size and Type of Fastener, Method of Fastening ..... 9.3.5.9/9.3.7
  - 4. Powder Driven Fasteners Not Permitted w/ Pipe > 1-1/2" ..... Policy 2-3
- D. Fittings
  - 1. Materials (mfg., model, listing)..... 6.4
- E. Method of Joining
  - 1. Detail - Threaded, Grooved, Welded, etc. .... 6.5.1/6.5.3/6.5.5
  - 2. Location of ALL Welds and Bends ..... 6.5.2/14.1.3 (21)
- F. Valves
  - 1. Alarm, Preaction, Deluge or Dry Pipe Valve (mfg., model, listing)..... 14.1.3(24) (25)
  - 2. Control Valves (mfg., model, listing, etc.) ..... 14.1.3(24) (25)
  - 3. Check Valves (mfg., model, listing, etc.)..... 14.1.3(24) (25)
- G. Drainage
  - 1. Main Drain ..... 16.2.3.4
  - 2. Drain Pipes ..... 8.15.2
  - 3. Test Connections ..... 8.16.4.1
  - 4. Auxiliary Drain ..... 8.15.2.5
- H. Water Flow Alarm and Control Valve Supervision
  - 1. Any Building > One Story in Height Requires Floor Control Valves... MC 8.44.110
  - 2. Flow and Tamper Switches by Floor Required ..... MC 8.44.110
  - 3. System Monitoring By Central Station More Than 20 Heads ..... CFC 903.4
  - 4. Remote Annunciator At Main Entrance for Item H.2 Above..... MC 8.44.110
  - 5. Horn/strobe at Main Entrance- NO BELLS Permitted..... Policy 2-2  
On Address Side of Building

**VI. HYDRAULIC CALCULATION**

- A. Information and Detail Required On Drawings
  - 1. Hydraulic Reference Points Match Calculation Sheets ..... 14.1.3(34)
  - 2. Min. Density, Design Area of Application, In-rack & Hose Demand .. 14.1.3(35)
  - 3. Total Quantity of Water and Pressure Required Noted At Common Reference Point for Each System and/or Calculation..... 14.1.3(36)
  - 4. Elevations of Sprinklers, Junction, Supply or Reference Points ..... 14.1.3(37)
  - 5. Room Design Method - All Unprotected Wall Openings Protected By Listed Fire Rated Assemblies Throughout Floor ..... 14.4.4.1.2
- B. Pipe Schedules Shall NOT Be Used to Extend Calculated Systems ..... 14.5
- C. Hydraulic Calculations

**VII. SPECIFIC REQUIREMENTS**

- A. High-rise Buildings- 2 Looped Risers Per Floor - Size to independently supply demand of floor ..... SMMC
- B. Elevator Spaces to Comply with Elevator Safety Orders ..... Pt. 8, T-24
  - 1. Pipe Entering Space to Valve Outside of Elevator Space ..... Pt. 8, T-24
  - 2. Pipe Entering Space May Not Pass Through Space or Serve More Than One Level ..... Pt. 8, T-24
  - 3. \_\_\_\_\_