

Cleveland Fire Department



Plan Review Checklist

Project:	Yes, No, N/A
Reviewer:	
Correct Adopted Codes Listed	
Occupancy Classification Verified	
Hazardous Operations are identified	
Hazardous material storage is indicated	
Life Safety Plan Included	
<ul style="list-style-type: none"> <li>• Occupant Load Verified                             <ul style="list-style-type: none"> <li>○ Calculations are shown how occupant load was determined</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>• Travel Distances Compliant</li> </ul>	
<ul style="list-style-type: none"> <li>• Proper Number of Exits and Exit Widths</li> </ul>	
<ul style="list-style-type: none"> <li>• No penetrations are shown in stairwells</li> </ul>	
<ul style="list-style-type: none"> <li>• Panic hardware if occupant load over 50</li> </ul>	
Fire Sprinkler Design Intent Included	
<ul style="list-style-type: none"> <li>• Flow Test Information</li> </ul>	
<ul style="list-style-type: none"> <li>• Demand Area Noted</li> </ul>	
<ul style="list-style-type: none"> <li>• Preliminary Flow and Pressure Demand Calculations</li> </ul>	
<ul style="list-style-type: none"> <li>• Water Supply Curve Graph</li> </ul>	
<ul style="list-style-type: none"> <li>• Detail Total Area Protected</li> </ul>	
<ul style="list-style-type: none"> <li>• Pipe Type and Schedule of Wall Thickness</li> </ul>	
<ul style="list-style-type: none"> <li>• Type and Nominal K Factor(s) of Sprinklers</li> </ul>	
<ul style="list-style-type: none"> <li>• Calculations of Loads for Sizing, Details of Sway Bracing</li> </ul>	
<ul style="list-style-type: none"> <li>• Temperature rating of any high-temperature sprinklers</li> </ul>	
<ul style="list-style-type: none"> <li>• Give the size and location of all risers and mains</li> </ul>	
<ul style="list-style-type: none"> <li>• Give the locations of any small enclosures in which no sprinklers are to be installed</li> </ul>	
<ul style="list-style-type: none"> <li>• Give the locations of any areas where sprinklers are omitted by exceptions of NFPA 13 or NFPA 13R</li> </ul>	
<ul style="list-style-type: none"> <li>• Location of pre-action or deluge valves if applicable</li> </ul>	
<ul style="list-style-type: none"> <li>• Size and location of standpipe riser and hose outlets</li> </ul>	
<ul style="list-style-type: none"> <li>• Indicate type of restraints used for underground directional changes. If left up to the sprinkler contractor, list available types and indicate the length, width, and depth of thrust blocks.</li> </ul>	
<ul style="list-style-type: none"> <li>• Indicate heat source(s) to protect sprinkler pipe from freezing in non-climate-controlled areas.</li> </ul>	
<ul style="list-style-type: none"> <li>• Specify that all system gauges and valves must be accessible for operation, inspection, and maintenance.</li> </ul>	
<ul style="list-style-type: none"> <li>• Provide intent for all supervisory, tamper, and flow monitoring switches.</li> </ul>	

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<ul style="list-style-type: none"> <li>• Indicate separate electric bell fore audible flow alarm</li> </ul>	
<ul style="list-style-type: none"> <li>• Specify Seismic restraints for sprinkler piping and specify flexible couplings at flexure joints.</li> </ul>	
<ul style="list-style-type: none"> <li>• Show clearance around piping passing through concrete floors and concrete/CMU walls and foundation where required.</li> </ul>	
<ul style="list-style-type: none"> <li>• Show typical seismic bracing details, locations of 4-way bracing, longitudinal, latitudinal bracing, line restraint bracing, and the clearance required around sprinkler pipe based on pipe size.</li> </ul>	
<ul style="list-style-type: none"> <li>• Indicate proposed FDC Location.</li> </ul>	
Design of alternative fire suppression systems included in plans.	
Elevations show Visible Street Numbers	
Elevations show Proposed Knox Box Location	
Listed fire stopping details are included in the plans	
Emergency lighting locations are indicated	
Exit signage is indicated	
Emergency lighting at exit discharge is indicated	
Proposed fire extinguisher locations are indicated	
Fire extinguisher details are included for proper installation	
Proper fire extinguisher size is detailed.	

This checklist by no means is a substitute for the City of Cleveland adopted fire codes. Completion of this checklist does not necessitate 100% compliance. The checklist is a tool that should help architects and engineers be aware of many of the items the Cleveland Fire Department is inspecting.