

- Any deviations from Missouri State University's Design Guidelines should be approved with the Project Manager
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General:

- These guidelines provide the University facilities requirements for Fire Protection and Fire Safety systems which will ensure a functional and maintainable system over the life of the facility. These guidelines are not intended to provide ALL requirements necessary for a complete design.
- All new facilities and major renovations shall have an automatic fire sprinkler system, fire protection standpipe, fire extinguishers and fire alarm system throughout the facility, unless directed otherwise by the AHJ.
- No fire protection system shall be removed or modified without permission from the AHJ.
- The University is responsible for the operation and maintenance of the building fire protection systems.
- Ensure construction drawings include details for all proposed firestopping systems that could be encountered on the project based on the construction type and rating of the assemblies being penetrated.
- Contractor and Owner to complete the included form – 'Fire Alarm IP/Monitoring Request Form'

Equipment/Material/Product Requirements:

- Fire Alarm Panel – Simplex 4100ES with addressable IP communicator, voice enunciator.
 - Locate in electrical room (preferred) or mechanical room.
 - Remote enunciator to be located at entry of building address.
 - Auxiliary panels, Ansul, or other unique systems are to be Simplex.
 - Verify locations with the University prior to installation.
- Automatic wet pipe sprinkler systems are preferred.
- Where space function, contents or process raises concerns about accidental water discharge a dry pipe, pre-action or combination systems shall be provided. Dry systems to be nitrogen generating systems in lieu of compressed air. Coordinate drain location and ensure correct slope.
- Fire Pumps
 - Per NFPA 25.
 - Coordinate with JCI for six (6) required monitoring points.
- Fire Department Connection
 - To be located to provide unobstructed access.
 - No lockable caps, typical.
 - Lockable may be preferred at certain buildings where vandalism is likely to occur, ie. Kentwood, JVIC.
- FDC signage is to be installed on buildings.
- Ensure all valves are supervised, locked, and tagged properly.

Division 21 Fire Suppression

- Alarm Bell
 - Follow code requirements.
 - Include A/V on exterior by FDC. Activate on water flow and general alarm.
- Sprinkler Head – follow code requirements.
- Test connections to be located on exterior of building.
- System drainage – discuss with Facilities Management during design.
- Post indicator valves connected to fire panels to be supervised. Include PIV and supervisory in building renovation project.
- Inlet and outlet of backflow in the building to be supervised.
- Control valves above ceilings to be identified for inspections and testing.
- Isolation valves are required at each floor level.
- Fire pumps to be connected to building generators when possible.
- Coordinate fire/smoke connection points with Owner/HVAC/JCI.
- Valve tagging to be in accordance with NFPA 13.
- Chemical placards installed at building entries.
- Fireproofing to be cementitious, not gypsum based.

Closeout Requirements:

- Laminated record drawing identifying device locations to be submitted with close-out as-built documents.
- The Consultant shall review and certify that As-Built drawings and Closeout documentation is complete and correct.