



## Travis County ESD No. 12

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FirePrevention@tcesd12.com



### FIRE ALARM SUBMITTAL REQUIREMENTS

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TCESD No. 12 is governed by the 2015 International Fire Code as amended and adopted. The submittal shall conform to that, and the most current edition of NFPA 72 and all other applicable codes and standards. The use of newer editions of code references is acceptable as long as the design meets or exceeds the requirements of the current adopted editions.

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**THE INFORMATION IN THIS DOCUMENT IS NOT ALL INCLUSIVE OF POSSIBLE ITEMS REQUIRED PER CODE. IT IS THE RESPONSIBILITY OF THE DESIGNER AND SUBMITTING CONTRACTOR TO INCLUDE ALL THE PERTINENT INFORMATION NOT MENTIONED IN THIS DOCUMENT.**

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**REQUESTS FOR FIRE ALARM INSPECTIONS WILL ONLY BE ACCEPTED FROM THE FIRE ALARM CONTRACTOR.**

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- The fire alarm plan shall be approved by TCESD No. 12 prior to the installation of any system components.
- The approved fire alarm plan shall be on site at all times for TCESD No. 12 inspections. The TCESD No. 12 inspector will not perform the fire alarm inspection without the TCESD No. 12 approved fire alarm plan.
- The cover page shall include:
  - Name of the project
  - Address of the project/buildings
  - Project information/Scope of work
  - Travis County ESD No. 12 Reviewer Signature Block
  - Name, professional seal, and license(s) of registered professional engineer
  - Contact information for property owner
  - All applicable codes referenced and applied for the project
  - Occupancy type(s) of building(s)
  - Sheet index corresponding to all pages of the submittal
  - Revision table

Additional sheets of the plan submittal shall include the following information:

- Applicable technical data sheets shall be included with the fire alarm submittal.
- The sequence of operations shall be clearly shown on the plan. The sequence of operations shall be detailed and show all alarm, supervisory and trouble conditions and all emergency functions. Some of the emergency functions include, but are not limited to, door release, elevator recall and emergency warning light illumination, smoke control, other extinguishing systems and HVAC shutdown.
- If multiple buildings are on the site, a separate TCESD No. 12 application shall be provided for each building on the site. A separate fire alarm plan shall be provided for each building unless otherwise directed by TCESD No. 12 personnel.
- The scope of work shall be tested by the installer prior to the TCESD No. 12 inspection to determine the system functions properly as approved and meets all applicable code requirements. Proof of the system pre-test may be requested by the TCESD No. 12 inspector.

- The fire alarm system shall report to the monitoring center with the device type and **specific** location. The fire alarm system shall identify the specific initiating device type, specific location in the building (ex. outside room 203), floor level if applicable, and alarm status at the main fire alarm control panel. Contact TCESD No. 12 for clarification if needed.
- The general contractor and the sprinkler contractor shall be present during the fire alarm final inspection.
- The room containing the main fire alarm control panel shall be in a room that is accessible from the exterior of the building. The room shall be appropriately labeled. Refer to the TCESD No. 12 website for signage requirements.
- A minimum of one weatherproof horn/strobe will be required on the exterior of the building. This device shall be a minimum of 75 cd. Additional horn/strobes may be required and the locations of the horn/strobes will be determined during the plan review process.
- The exterior horn/strobe shall not be able to be silenced while water is flowing. This notification device shall be wired from the fire alarm control panel as a dedicated latching circuit and shall be supervised.
- The TCESD No. 12 approved fire alarm plan shall be kept at the main fire alarm control panel in a secure document box.
- Each device, appliance, circuit and component shall be indicated and enumerated on the floor plan.
- Riser diagrams delineating each floor, circuit and zone and all devices, appliances and/or components shall be provided.
- The location of any remote annunciators shall be clearly noted on the plan.
- The FACP shall be protected with a smoke detector.
- The waterflow alarm signal shall not be able to be silenced while the water is flowing.
- The activation of all sprinkler valve tamper switches shall cause a supervisory signal.
- Duct detectors shall be required on any single AHU with an air exchange of 2000 cfm or greater or when the co-mingled air of multiple units totals at least 2000 cfm. Contact TCESD No. 12 for coverage requirements if RTU/MAU's are present.
- Duct detectors shall cause a supervisory signal at the alarm panel and the central station monitoring agency.
- If building is equipped with sprinklers in the elevator shaft, the shunt trip shall be monitored.
- Where a building fire alarm system is installed, automatic fire-extinguishing systems shall be monitored by the building fire alarm system.
- Storage batteries shall be marked with the month and year of manufacture.
- Alarm signals shall be a three-pulse temporal pattern.
- Carbon monoxide signals shall be a four-pulse temporal pattern. If deemed necessary by the specific application, a separate sheet of the alarm plans shall be dedicated specifically to the location of carbon monoxide detectors and the subsequent monitoring of specific appliances and devices.
- Testing and service personnel shall be qualified and experienced per NFPA 72.
- If the building is equipped with a fire sprinkler system, the FACP or a fully functioning annunciator shall be in the sprinkler riser room.
- The alarm system circuit breaker power disconnect shall be accessible to only authorized personnel and marked red or as "fire alarm." The electrical panel housing the circuit breaker shall be in a secure room and the circuit breaker shall be marked in red and locked in the open position.

- Waterflow switches shall be provided on the fire sprinkler riser on every floor of a multi-story building. Each waterflow switch shall report to the FACP to indicate the location (floor) of the waterflow activation, as required by TCESD No. 12.
- Submit the signed TCESD No. 12 Fire Alarm Submittal Checklist and a PDF copy of the plan with your submittal.