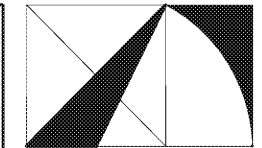


ELECTRICAL SPECIFICATIONS CONT'D

5-FIRE ALARM

- 5.1 DESCRIPTION:
 A. THE FIRE ALARM SYSTEM SHALL COMPLY WITH REQUIREMENTS OF NFPA STANDARD NO. 72 FOR PROTECTED PREMISES SIGNALING SYSTEMS EXCEPT AS MODIFIED AND SUPPLEMENTED BY THIS SPECIFICATION. THE SYSTEM SHALL BE ELECTRICALLY SUPERVISED AND MONITOR THE INTEGRITY OF ALL CONDUCTORS. CONTRACTOR SHALL PROVIDE ALL MATERIALS, CONDUIT AND WIRING FOR A COMPLETE AND WORKING FIRE ALARM SYSTEM. FIRE ALARM SYSTEM SHALL BE DESIGNED BY QUALIFIED DESIGN SPECIALIST FOR THE MANUFACTURER OF THE FIRE ALARM SYSTEM AND THE MANUFACTURER'S REPRESENTATIVE SHALL PROVIDE DETAIL DRAWINGS INDICATING ALL PARTS, MATERIALS, PLAN DRAWINGS, RISERS AND WIRING.
- 5.2 SCOPE:
 A. PROVIDE ALL NEW PARTS, MODULES AND ACCESSORIES AS REQUIRED. THE FINISHED SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THESE SPECIFICATIONS AND DRAWINGS AND SHALL BE COMPLETE.
- 5.3 BASIC PERFORMANCE:
 A. ALARM, TROUBLE AND SUPERVISORY SIGNALS FROM ALL INTELLIGENT ADDRESSABLE REPORTING DEVICES SHALL BE ENCODED ONTO A CLASS A (NFPA STYLE 6, 7) SIGNALING LINE CIRCUIT (SLC).
 B. INITIATION DEVICE CIRCUITS (IDCS) SHALL BE WIRED CLASS A (NFPA STYLE D).
 C. NOTIFICATION APPLIANCE CIRCUITS SHALL BE WIRED CLASS B (NFPA STYLE Y) OR CLASS A (NFPA STYLE Z).
 D. BUILT-IN HORN STROBE SYNCHRONIZATION W/ SELECTIVE SILENCE.
 E. DIGITIZED ELECTRONIC SIGNALS SHALL EMPLOY CHECK DIGITS OR MULTIPLE POLLING.
 F. A SINGLE GROUND OR OPEN ON THE SYSTEM SIGNALING LINE CIRCUIT (SLC) SHALL NOT CAUSE SYSTEM MALFUNCTION, LOSS OF OPERATING POWER OR THE ABILITY TO REPORT AN ALARM.
 G. ALARM SIGNALS ARRIVING AT THE MAIN FACP SHALL NOT BE LOST FOLLOWING A POWER FAILURE (OR OUTAGE) UNTIL THE ALARM SIGNAL IS PROCESSED AND RECORDED.
- 5.4 BASIC SYSTEM FUNCTIONAL OPERATION:
 A. WHEN A FIRE ALARM CONDITION IS DETECTED AND REPORTED BY ONE OF THE SYSTEM INITIATING DEVICES THE FOLLOWING FUNCTIONS SHALL IMMEDIATELY OCCUR:
 1. THE SYSTEM ALARM LED SHALL FLASH.
 2. A LOCAL PIEZO ELECTRIC SIGNAL IN THE CONTROL PANEL SHALL SOUND.
 3. A 80- CHARACTER, BACKLIT LCD DISPLAY OR EQUIVALENT SHALL INDICATE ALL INFORMATION ASSOCIATED WITH THE FIRE ALARM CONDITION, INCLUDING THE TYPE OF ALARM POINT AND ITS LOCATION WITHIN PROTECTED PREMISES.
 4. PRINTING AND HISTORY STORAGE EQUIPMENT SHALL LOG THE INFORMATION ASSOCIATED WITH EACH NEW FIRE ALARM CONTROL PANEL CONDITION, ALONG WITH TIME AND DATE OF OCCURRENCE.
 5. ALL SYSTEM OUTPUT PROGRAMS ASSIGNED VIA CONTROL-BY-EVENT EQUATIONS TO BE ACTIVATED BY THE PARTICULAR POINT IN ALARM SHALL BE EXECUTED, AND THE ASSOCIATED SYSTEM OUTPUTS (ALARM NOTIFICATION APPLIANCES AND/OR RELAYS) SHALL BE ACTIVATED.
- 5.5 TESTING:
 A. TESTING: SYSTEMS AND COMPONENTS SHALL BE TESTED AND DEMONSTRATED TO MEET FULL FUNCTIONAL REQUIREMENTS. SPECIFIC TESTS SHALL BE PERFORMED AS SPECIFIED, INDICATED, OR REQUIRED.

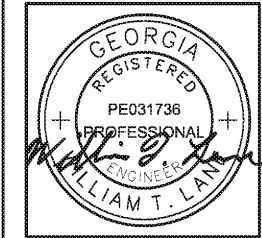


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ELECTRICAL SPECIFICATIONS

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