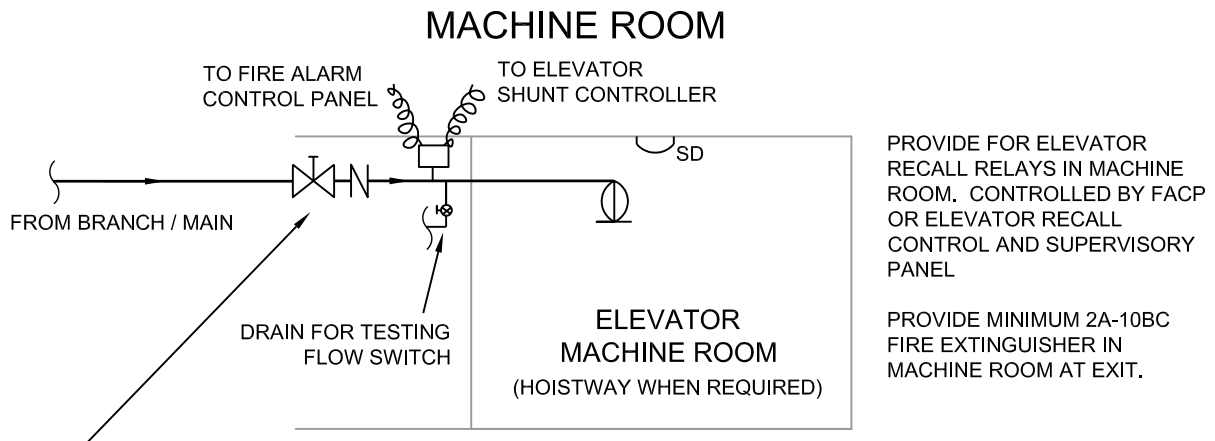


FIRE PROTECTION FOR ELEVATORS

A FIRE PROTECTION LEAGUE OF ARKANSAS (FPLA)

STANDARD DETAIL (Updated 3/06)



SPRINKLER LINE SHALL HAVE MONITORED INDICATING ISOLATION VALVE, CHECK-VALVE, DOUBLE-POLE FLOW SWITCH WITHOUT A DELAY, INSPECTOR TEST, & DRAIN. TEST VALVE / ORIFICE MUST ASSURE FLOW EQUAL TO SINGLE SPRINKLER. PIPE DRAIN TO EXTERIOR, OR AS APPROVED BY ENGINEER. DRY PIPE DOWNSTREAM OF TEST SHOULD BE GALVANIZED.

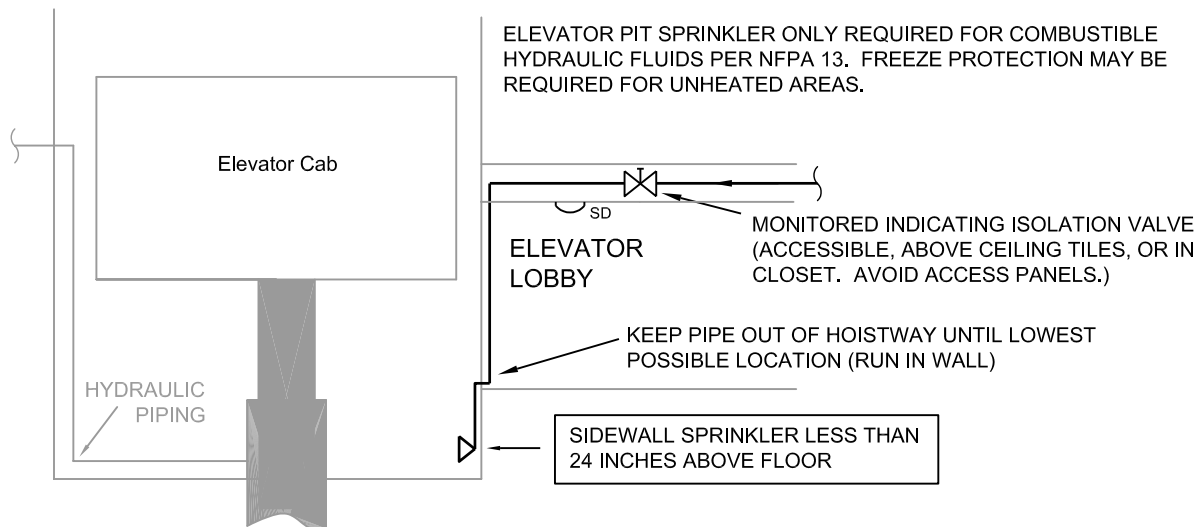
VALVES, NON-DELAY FLOW SWITCH, TEST, & DRAIN SHALL BE LOCATED OUTSIDE OF THE ELEVATOR MACHINE ROOM. COMPONENTS SHALL BE INSTALLED IN SEQUENCE INDICATED. LOCATE SPRINKLERS AND SMOKE DETECTION PER CODE.

UPON DETECTION OF SMOKE INSIDE MACHINE ROOM OR ELEVATOR LOBBY THE ELEVATOR SHALL INITIATE RECALL. UPON ACTIVATION OF WATER FLOW ELEVATOR POWER SHALL BE IMMEDIATELY SHUNT-TRIPPED WITH NO DELAY. SHUNT-TRIP SHALL BE CONTROLLED DIRECTLY FROM FLOW SWITCH. FACP SHALL MONITOR AND INDICATE WATER FLOW AT THIS LOCATION. FACP MAY PROVIDE REDUNDANT (NOT PRIMARY) SIGNAL TO SHUNT-TRIP.

*TOP OF HOISTWAY SPRINKLER AND SMOKE DETECTION SHOULD ONLY BE PROVIDED FOR OTHER THAN PASSENGER ELEVATORS (RARELY USED), OR IF MECHANICAL ROOM EQUIPMENT IS INSTALLED IN HOISTWAY (NEW DESIGN CONCEPT NOT YET ADDRESSED BY ASME). FREIGHT ELEVATORS APPROVED FOR PASSENGER SERVICE ARE CONSIDERED PASSENGER ELEVATORS.

REASONING: TEST & DRAIN REQUIRED TO TEST FLOW SWITCH. CHECK VALVE IS TO REDUCE CHANCE OF FALSE SHUNT DUE TO PRESSURE SURGE. HEAT DETECTORS MAY RESPOND SLOWER THAN NEWER SPRINKLERS (RTI OF DESIGN), ELIMINATE NON-REQUIRED COMPONENTS AND ACCESS TO HOISTWAY. FIRE HISTORY DOES NOT JUSTIFY INCREASED RISK OF HOISTWAY DEVICES NOT REQUIRED.

ELEVATOR PIT (WHEN REQUIRED)



INFORMATION ON THIS DETAIL HAS BEEN ESTABLISHED BASED ON ASME 17.1 FOR ELEVATORS, NFPA 13 FOR SPRINKLERS, NFPA 72 FOR FIRE ALARMS, MEMBERS OF FPLA, AND ARKANSAS STATE ELEVATOR INSPECTORS. FPLA OR ABOVE MENTIONED ARE NOT RESPONSIBLE FOR USE OF THIS STANDARD DETAIL. THERE ARE SEVERAL OPTIONS TO ACHIEVE CODE OBJECTIVES. THIS REPRESENTS ONE METHOD OF AN ACCEPTABLE INSTALLATION. DESIGNER IS RESPONSIBLE FOR EVALUATING APPROPRIATE DESIGN FOR EACH PROJECT. 3/06SWL