



Wheeling Fire Department



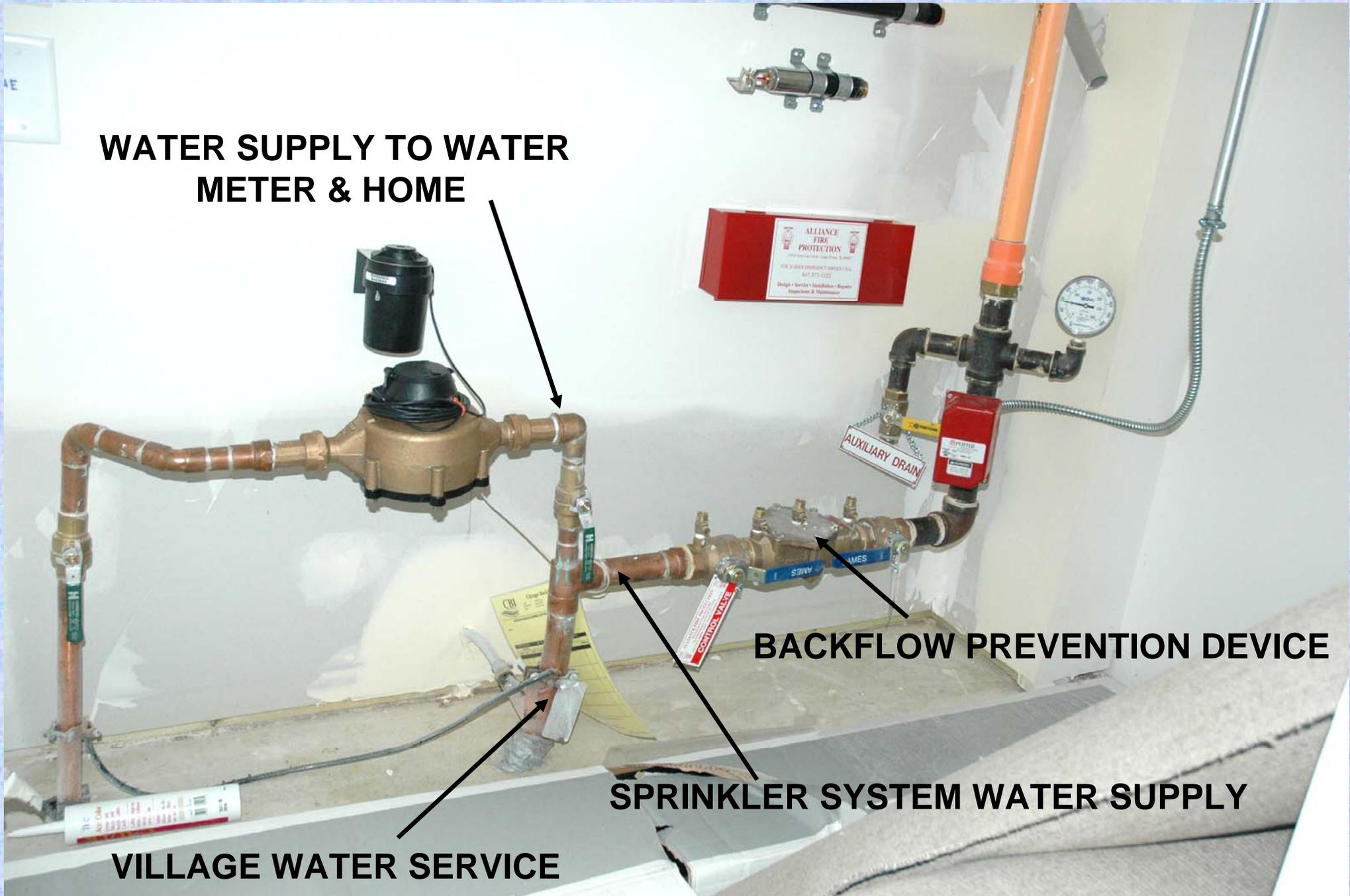
Understanding your residential sprinkler system

The following slides will take you on a tour of a typical residential sprinkler system and its various components.

**For additional information or questions
contact the
Wheeling Fire Prevention Bureau
847- 459-2669**



Domestic & Sprinkler System Water Supply Entering the Home



WATER SUPPLY TO WATER METER & HOME

ALLIANCE FIRE PROTECTION
FOR 24-HOUR EMERGENCY SERVICE CALL 847-379-1122
Design • Service • Installation • Repair
Inspection & Maintenance

AUXILIARY DRAIN

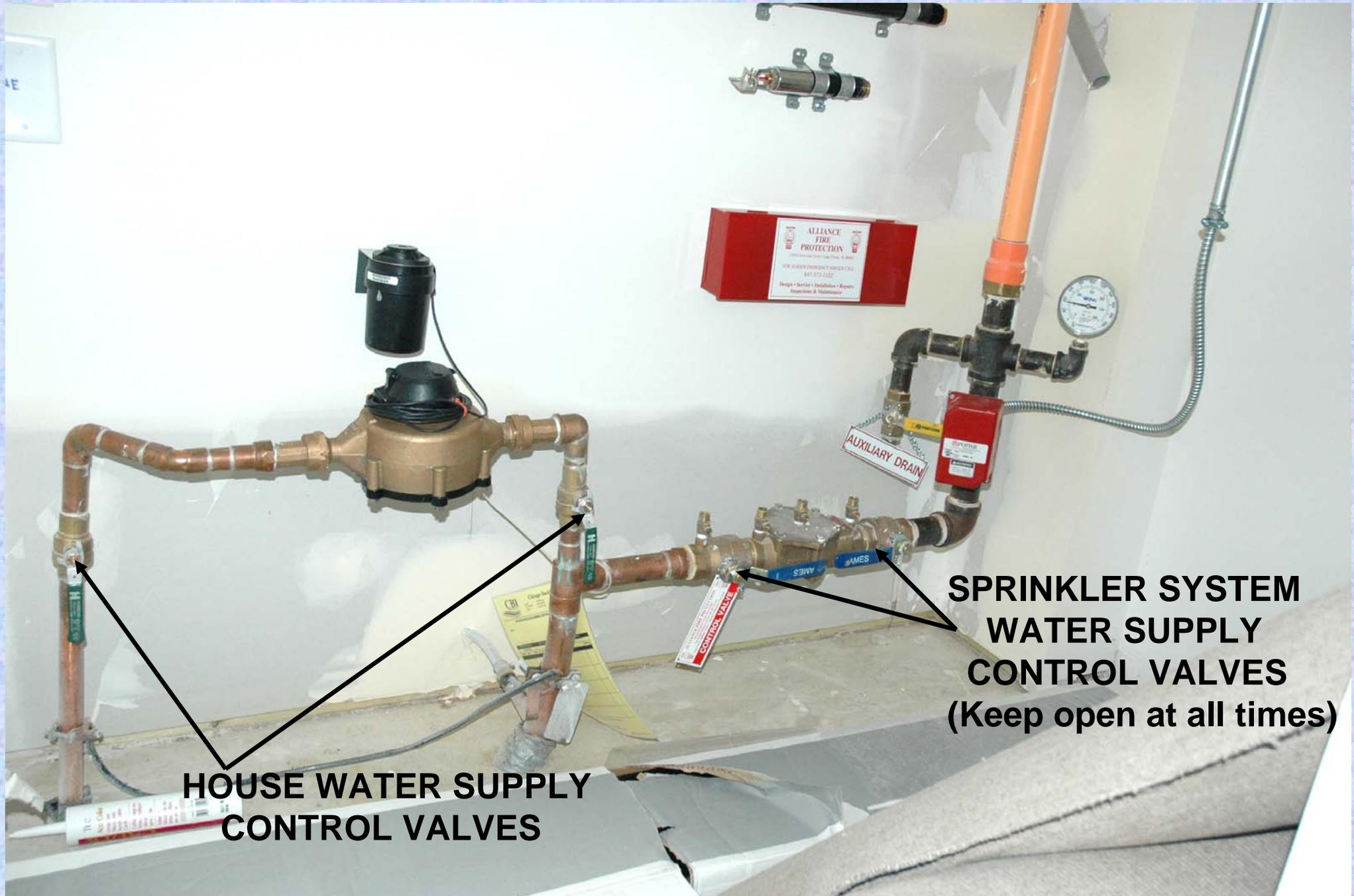
BACKFLOW PREVENTION DEVICE

SPRINKLER SYSTEM WATER SUPPLY

VILLAGE WATER SERVICE



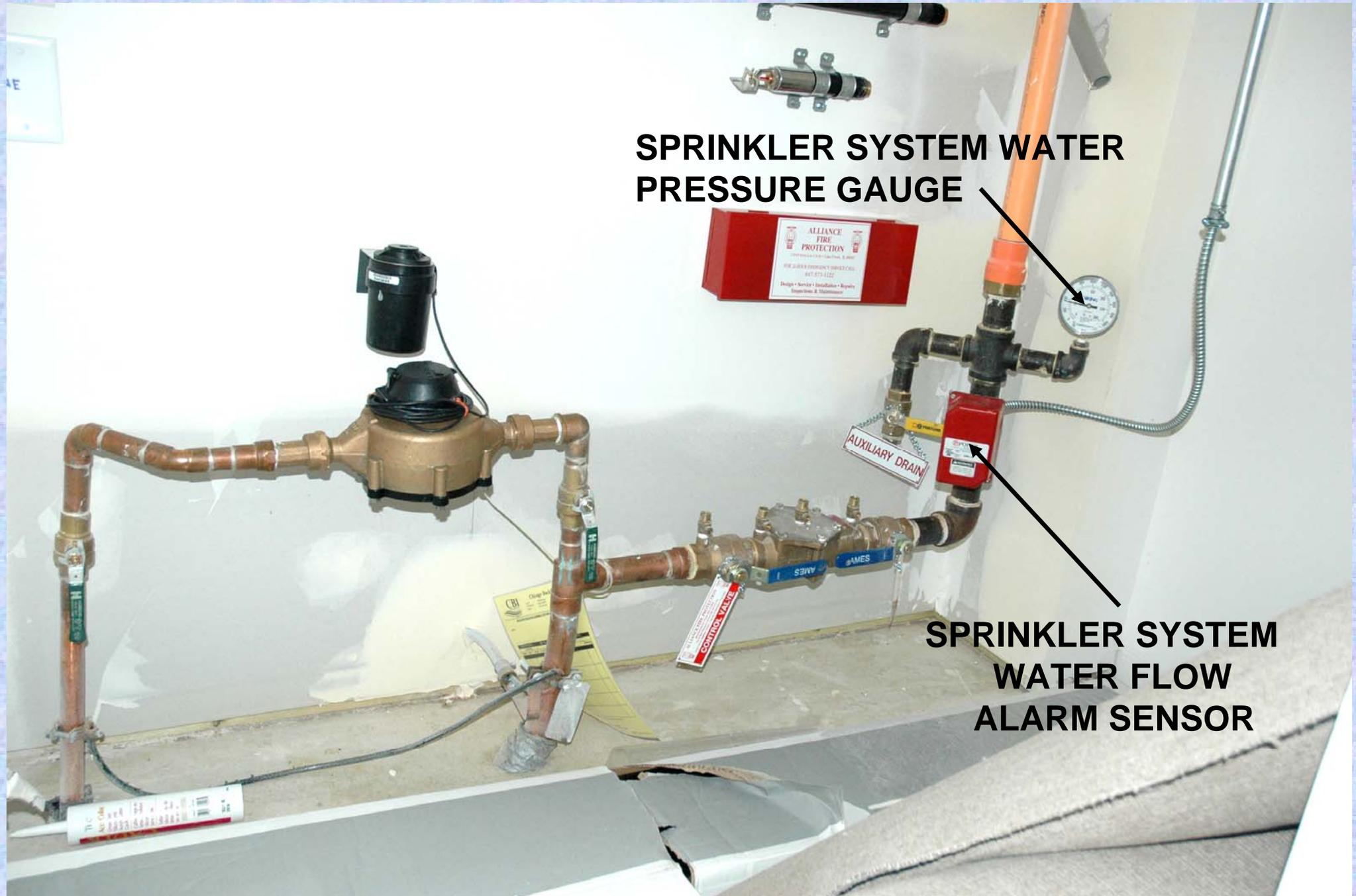
Control valves for the Domestic & Sprinkler System Water Supply



**HOUSE WATER SUPPLY
CONTROL VALVES**

**SPRINKLER SYSTEM
WATER SUPPLY
CONTROL VALVES
(Keep open at all times)**

Alarm Initiating & Water Pressure Devices



SPRINKLER SYSTEM WATER PRESSURE GAUGE

SPRINKLER SYSTEM WATER FLOW ALARM SENSOR

Alarm Initiating Sensor, Water Pressure Device, Auxiliary Drain Valve



**SPRINKLER
SYSTEM DRAIN**

AUXILIARY DRAIN

**SPRINKLER SYSTEM
WATER PRESSURE
GAUGE**



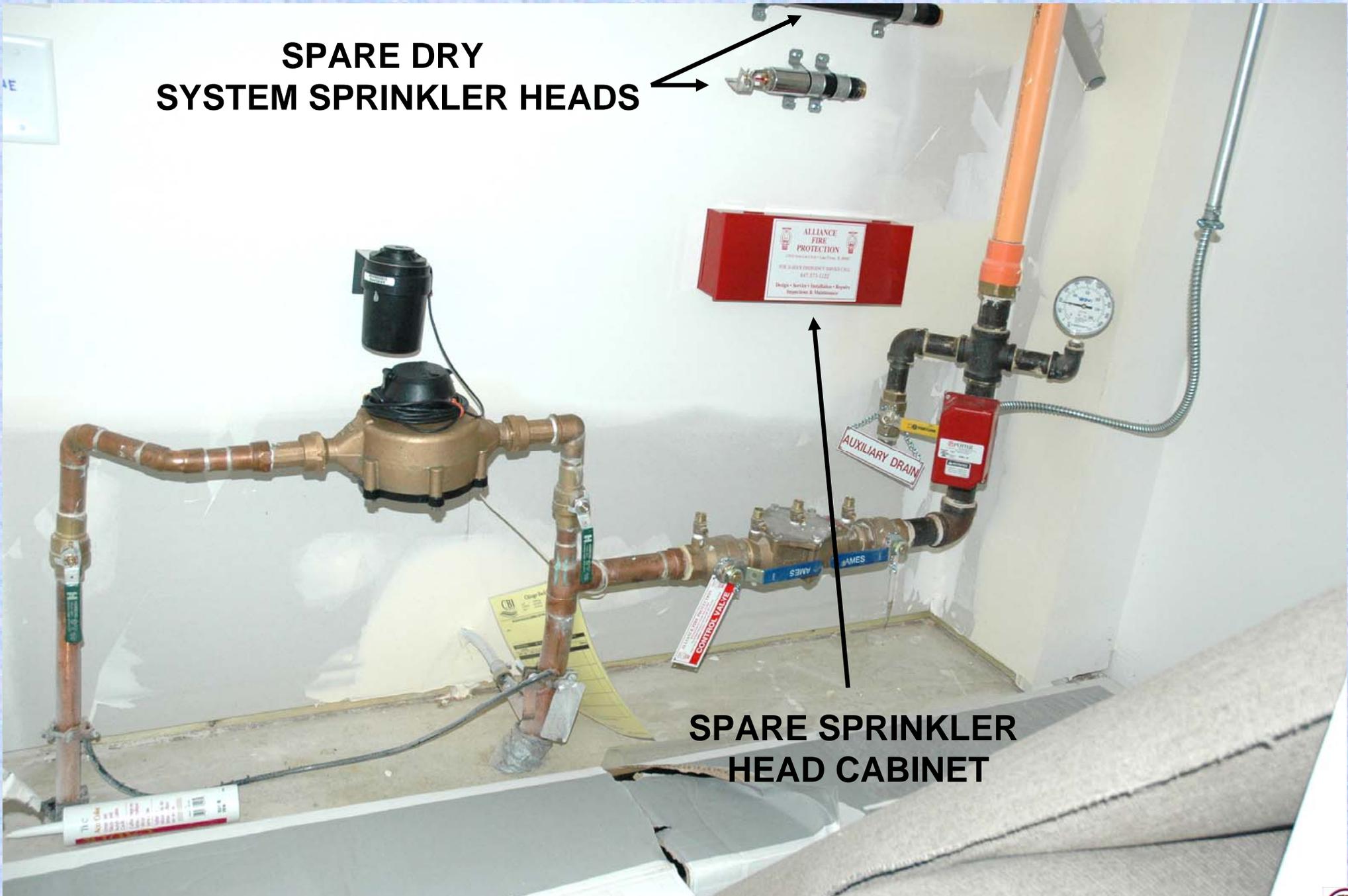
**SPRINKLER SYSTEM
WATER FLOW SWITCH
AND ALARM SENSOR**



Spare Sprinkler Heads if the System Operates

**SPARE DRY
SYSTEM SPRINKLER HEADS**

**SPARE SPRINKLER
HEAD CABINET**



Spare Sprinkler Heads if the System Operates



SPARE SPRINKLER HEAD CABINET AND SPARE DRY SPRINKLER HEADS



Spare Sprinkler Heads if the System Operates

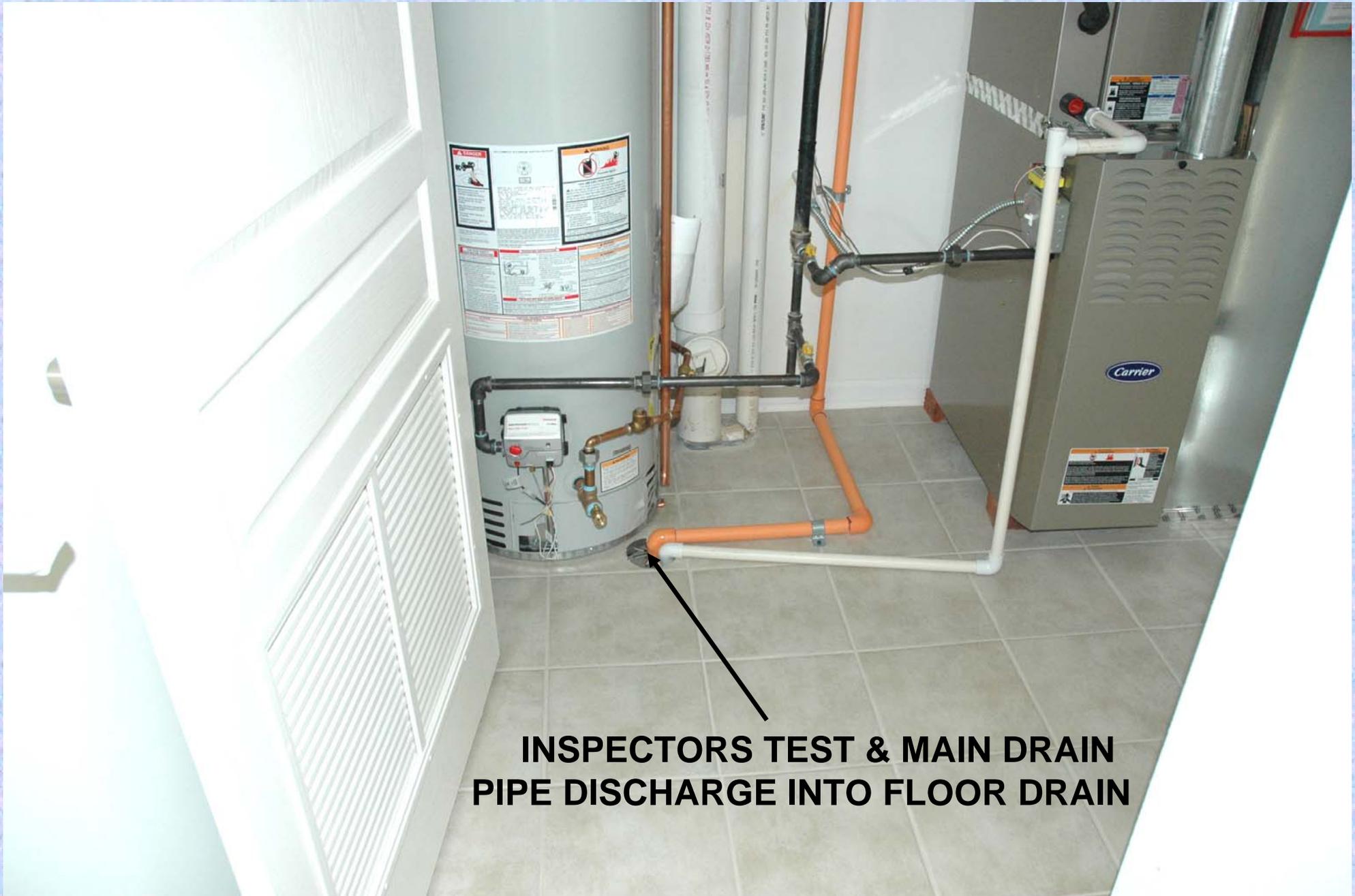
**SPARE DRY SPRINKLER
HEADS AND CABINET (Open)
WITH SPARE SPRINKLER
HEADS AND WRENCH**



Typical Combination Test Valve and Main Drain Valve



Typical Water Discharge for Inspectors Test and Main Drain Valve



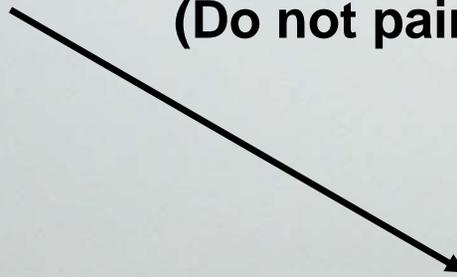
**INSPECTORS TEST & MAIN DRAIN
PIPE DISCHARGE INTO FLOOR DRAIN**

Typical Sprinkler Head Installation In Home

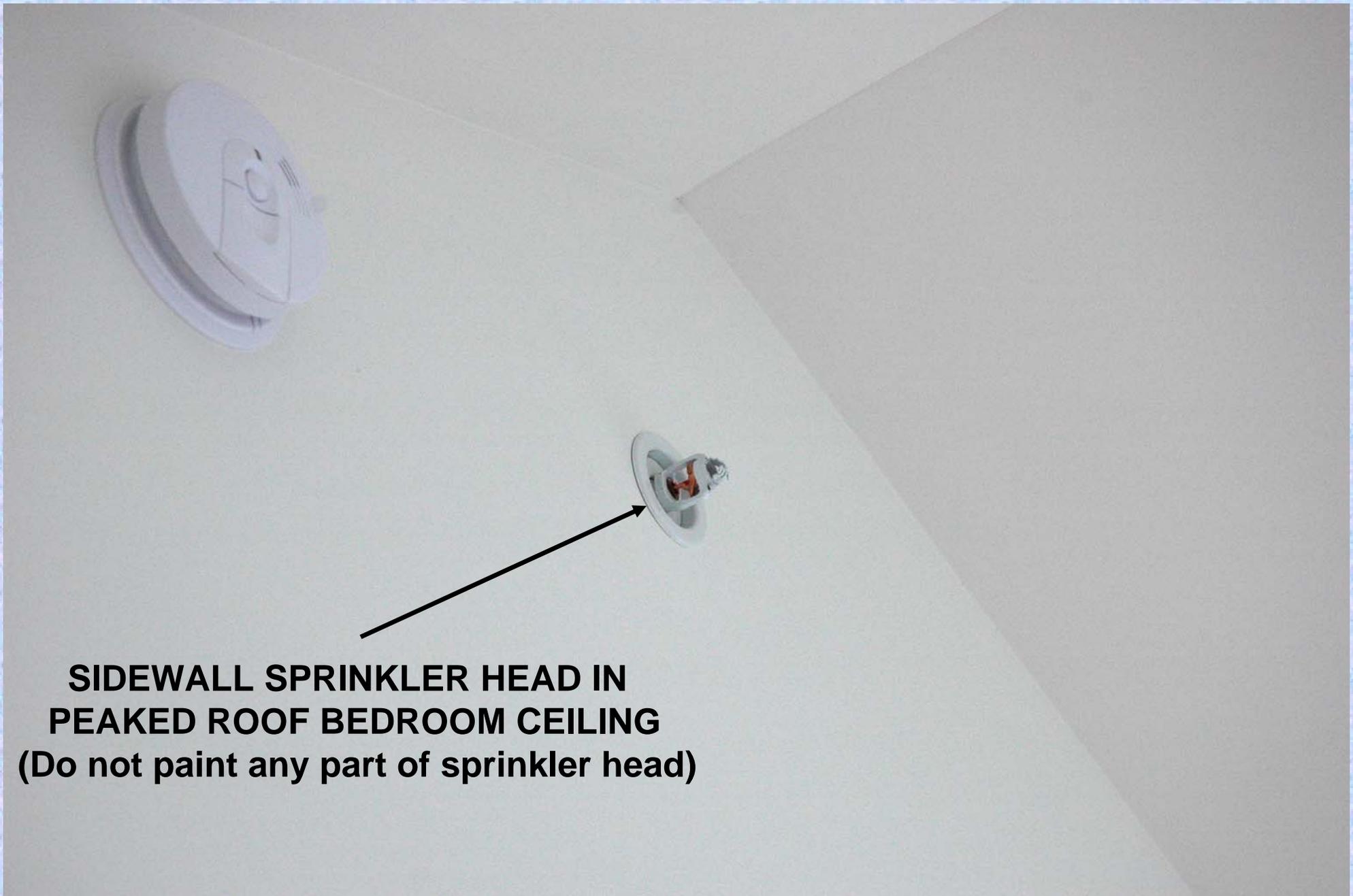


Typical Sprinkler Head Installation In Home

CONCEALED PENDANT SPRINKLER HEAD
(Do not paint cover)



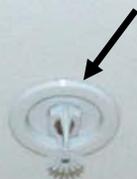
Typical Sprinkler Head Installation In Home



**SIDEWALL SPRINKLER HEAD IN
PEAKED ROOF BEDROOM CEILING
(Do not paint any part of sprinkler head)**

Typical Sprinkler Head Installation In Home

PENDANT TYPE SPRINKLER HEAD
(Do not paint any part of sprinkler head)



Typical Sprinkler Head Installation In Home



**DRY SIDEWALL TYPE SPRINKLER HEAD IN GARAGE
(Do not paint any part of sprinkler head)**

Typical Sprinkler Head Installation In Home



**DRY PENDANT TYPE SPRINKLER HEAD IN GARAGE
(Do not paint any part of sprinkler head)**

Typical Occupant Warning Alarms Inside Home



Interior Bell – May be located on wall or cold air return



Water flow connected to residence smoke alarms



and



Combination of interior bell and water flow connected to smoke alarms

Typical Outside Alarm Horn & Strobe (Not all applications/installations)



**OUTSIDE ALARM
HORN & STROBE**

Typical Outside Alarm Horn & Strobe (Not all applications/installations)



**ALARM HORN
&
STROBE**

THE END

A presentation of the Wheeling Fire Prevention Bureau

