

PALO ALTO FIRE DEPARTMENT

CONTRACTORS ROUGH SPRINKLER INSPECTION CHECK LIST

This check list is only to be used as a guide. Refer to all NFPA, CFC 2007 codes and local regulations prior to inspection prior to inspection. **Leave the box unchecked if the line item does not apply to this project.**

PRE INSPECTION:

- SYSTEM FLUSH OUT INSPECTION WAS PERFORMED AND APPROVED
- UNDERGROUND HYDRO TEST WAS PERFORMED AND APPROVED (200 PSI FOR 2 HRS)
- DOWNLOAD AN INSPECTION REQUEST FORM AT www.cityofpaloalto.org/fireinspection
- SCAN AND EMAIL TO fireinspection@cityofpaloalto.org
- OR FAX TO 650-327-6951

INSPECTION:

- HAVE APPROVED PLANS AND PERMIT AVAILABLE
- LOCATE ON PLANS, AREA(S) TO BE INSPECTED
- VERIFY NUMBER OF SPRINKLER HEADS PER PLANS
- IDENTIFY THE RISER LOCATION PER PLANS
- IDENTIFY FDC LOCATION IS PER PLANS

PIPING AND SUPPORTS:

- CHECK THAT PIPING AND SUPPORT MATERIALS ARE AS PER PLANS
- CHECK PIPING AND SUPPORTS ARE AS PER MANUFACTURER'S REQUIREMENTS
- CHECK THAT ALL PIPING LAID ON OPEN JOISTS IS SECURE
- CHECK THAT ALL PIPING IN OPEN ATTICS IS INSULATED
- CHECK THAT PIPING AND PIPING SIZE ARE AS PER PLANS

PALO ALTO FIRE DEPARTMENT

CONTRACTORS ROUGH SPRINKLER INSPECTION CHECK LIST

PAGE 2

PIPING AND SUPPORTS CONT:

- CHECK THAT PIPE PENETRATIONS HAVE PROPER CLEARANCE (1- 3.5"= 2"CL) (4"+= 4" CL) CHECK THAT DOUBLE BACK FLOW VALVE IS INSTALLED
- CHECK THAT ALL LATERAL BRACING IS INSTALLED PER CODE (SEE NOTES)
- CHECK SEISMIC ASSEMBLY IS INSTALLED IN BUILDING WITH SEISMIC JOINTS (IF APPLICABLE)
- CHECK THAT LONGITUDINAL BRACING IS INSTALLED PER CODE
- CHECK THAT 4 WAY BRACING IS INSTALLED EVERY 25 FEET
- CHECK THAT RESTRAINING STRAPS ARE INSTALLED ON ALL C-CLAMPS
- CHECK CROSS MAINS FOR A HANGER BETWEEN EACH BRANCH LINE AND AT END OF THE MAIN

SPRINKLER RISER:

- CHECK THAT MAIN DRAINS ARE ROUTED TO THE EXTERIOR AND TURNED DOWN
- CHECK RISER FOR A FLOW SWITCH
- CHECK THAT WATER GONG OR AUDIBLE ALARM ARE INSTALLED
- CHECK THAT A 4 WAY BRACE IS INSTALLED AT THE TOP OF THE RISER
- CHECK RISERS IN MULTI-STORY BUILDING ARE SUPPORTED AT THE LOWEST LEVEL, EACH ALTERNATE LEVEL, BELOW OFFSETS AND AT THE TOP
- CHECK THAT DISTANCE BETWEEN RISER SUPPORTS IS NOT GREATER THAN 25 FEET
- CHECK THAT HYDRAULIC DATA PLATE IS ATTACHED TO RISER

FDC:

- CHECK THAT FDC IS INSTALLED PER PLANS
- CHECK THAT FDC HAS CHECK AND DRIP VALVE INSTALLED
- CHECK THAT FDC IS A MINIMUM OF A 4 INCH PIPE
- CHECK THAT FDC IS BETWEEN 18 INCHES AND 48 INCHES ABOVE FINISH GRADE

PALO ALTO FIRE DEPARTMENT

CONTRACTORS ROUGH SPRINKLER INSPECTION CHECK LIST

PAGE 3

SPRINKLER PIPES/OVER HEAD:

- CHECK THAT ALL SPRINKLER LOCATIONS ARE AS PER PLANS AND CODE
 - CHECK THAT ALL SPRINKLER LINES ARE BRACED PER CODE
 - SPRINKLER SPACING 12 FEET ON CENTER OR LESS
 - CHECK THAT SPRINKLERS ARE NOT WITHIN 8 FEET OF EACH OTHER UNLESS ALLOWED
 - SPRINKLERS NOT MORE THAN 6 FEET FROM A WALL
 - SPRINKLER SPRINKLERS IN BATH ROOMS OF 55 SQ FT OR MORE
 - SPRINKLERS ARE IN CLOSETS OF 24 SQ FT OR MORE WITH COMBUSTIBLE SURFACE MATERIALS
-
- HANGER SPACING ON 1.5 INCH OR LARGER PIPE= EVERY 15 FEET
 - HANGER SPACING ON 1 INCH TO 1.25 INCH PIPE= EVERY 12 FEET
 - HANGER REQUIRED WITHIN 36 INCHES OF SPRINKLER HEAD IF ON A MAIN OR BRANCH LINE
 - HANGER REQUIRED WITHIN 24 INCHES OF SPRINKLER HEAD IF ON AN ARM OVER
 - HANGER (WRAP AROUND)REQUIRED AT THE END OF EVERY RUN