| Fire, Building & Life Safety Division | | |
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| Fire Service Line Extension and Remote Fire Department Connection (FDC) Plan Submittal, Preconstruction Meeting, and Inspection requirements | PAGE 1 of 2 | Revised: 4/5/2010 |
| Category: Plan Review/Construction | Code Reference: City of Goodyear Engineering Design Standards,2002 Edition of NFPA 24 and 2002 Edition of NFPA 13 | |

## PURPOSE

The purpose of this regulation is to establish a procedure for the submittal of plans, issuance of permits, preconstruction meeting, and inspection requirements for Fire Sevice Line Extensions (FSLE) and/or remote Fire Department Connection (FDC).

## REGULATION

### DEFINITION

For Fire Department purposes the Fire Service Line Extension (FSLE) is defined as that section of piping from the isolation valve on the site fire loop or the customer side of a double detector check valve to the flanged stub up 6" Above Finished Floor (AFF) for the fire riser inside the structure it serves.

For Fire Department purposes the remote Fire Department Connection (FDC) is defined as that section of piping from the structure fire riser to a remote location within 150 feet maximum of a fire hydrant.

### PLAN REVIEW SUBMITTAL and PERMIT ISSUANCE

A separate submittal for the installation of the FSLE and/or remote FDC shall be submitted for review prior to issuance of fire sprinkler system permit. A fire sprinkler system can be submitted,approved, and permit placed on hold until the fire service line extension and/or remote FDC are submitted for review.

Submittals shall include the following:

- A completed permit application referencing the State of Arixona licensed installing contractor
- A completed Fire Service Line Extension and Remote Fire Department Connection Submittal Handout
- One set of City of Goodyear approved civil plans referencing the fire loop
- Two complete sets of plans designed by a State of Arizona licenced installing contractor whose licence allows them to install on site water for fire sprinkler systems.
- The FSLE shall be designed to the 2006 Edition of the International Fire Code (IFC) with amendments,City of Goodyear Engineering Design Standards and Policy Manual, the 2002 Edition of NFPA 24, and 2002 Edition of NFPA 13.

### PRECONSTRUCTION MEETING

A preconstruction meeting shall be conducted on the job site priopr to the commencement of any work related to the FSLE and/or remote FDC.

- Construction schedule
- Contract documents on site
- Scope of work explained
- Approved plans
- Permit
- Approved materials
- Blue stake cleared

## INSPECTIONS

The FSLE and/or remote FDC shall be inspected, approved, and flush certificate issued prior to connection to the fire sprinkler system

- Inspection request line: 623.932.3494
- Excavation:Verify depth of trench (minimum 36 inches to top of pipe for traffic areas/ 18 inches for non traffic areas) Trench bedding (compacted) eliminate all voids.
- System installation, C-900 (PVC) or DIP (ductile iron pipe): Pipe and bells/mechanical joints/mega lugs flush with trench bedding. Riser in structure minimum 18 inches clearance (center of riser to adjacent walls). Annular space around riser in structure minimum 4 inchs larger than 4 inch pipe riser or larger ( 2 inch annular space) NFPA 13 section 9.3.4.2.
- Thrust blocks (Mag detail 380): Check prior to pour and after pour.
- A 200 psi hydrostatic test shall be witnessed by the fire inspector for a two hour time period: Request water and valve operation from water purveyor. Fill Fire Service Line Extension and/or FDC service line and remove air.
- Flush test to be witnessed by fire inspector: The installing contractor shall provide the *Contractor's Material and Test Certificate for Underground Piping (NFPA13)* to the fire inspector
- Back fill trench (Mag spec Section 601).
- Compaction test (Mag spec Table 601-2): On site 95 percent compaction/ native soil can be used.
- Fire inspector to provide documentation of all inspections (approval or correction).