CAÑON CITY AREA FIRE PROTECTION DISTRICT

3016 East Main Street
Cañon City CO 81212
719-275-8666 FAX 719-275-1486

Cistern/Dry Hydrant Permit Application

Date: _____

Project: _____

Address of project: _____

Contractor: _____ E-Mail: _____ Phone: _____

Address: _____

Contact person: _____ E-Mail: _____ Phone: _____

FAX Number _____

The following items MUST be included within the documents submitted for review. Plans will not be reviewed unless all items are included. Confirm each item below is included.

- ❑ Full size, scalable site plan indicating proposed cistern and dry hydrant(s) location
- ❑ Project Address Shown on Plans
- ❑ Cistern design plans indicating all piping (vent, fill, suction, etc.) water level indicators, anti-vortex, capacity, man-ways etc.
- ❑ Dry hydrant design, pipe size and length
- ❑ Refer to Cistern/Dry Hydrant Requirement form

Signature: _____ Date: _____

Name Printed: _____

Fee Submitted: _____ (See fee schedule) _____ Date: _____

Plans will not be reviewed until fee(s) submitted

Office use only

Accepted by: _____ Date: _____

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Cistern and Dry Hydrant Requirements

- Cistern size will be determined using NFPA 1142 with no reductions for area separation.
- A scalable site plan indicating the location of the cistern and hydrant(s) is required.
- Cistern design plans, NFPA 22, indicating all piping (vent, fill, suction, etc.), water level indicators, anti-vortex, capacity, man-ways etc. must be submitted and approved before installation of the cistern.
- Usable capacity of cistern shall be the number of gallons above the level of the anti-vortex plate.
- An anti-vortex plate will be required at the entrance of the suction piping.
- Maximum lift of 11' measured from the anti-vortex plate to the center line of the dry hydrant.
- Cistern and dry hydrant(s) must be approved, installed and tested before construction unless approved.
- Cistern will be for fire service use only and not used for any other purpose unless approved.
- Cistern must be maintained full at all times, with an approved and accessible means for verifying full water level.
- Piping and venting of cistern shall be adequate to supply a minimum of 1000 GPM.
- Piping between cistern and hydrants must be flushed using approved methods.
- The cistern shall be connected to a/an dry hydrant(s) capable of the required fire flow for the proposed building(s). The minimum flow rate shall be 1000 GPM as measured from a draft.
- Dry hydrant(s) shall be protected from freezing, protected from vehicle damage and be within 5' of fire apparatus access. Connection for the apparatus shall be 6" NST male threads with a protective cap. The connection shall be 40" at the centerline above apparatus access road.
- Typical fire hydrants used as dry hydrants shall have (2) 2 1/2" and (1) 5"outlets. The 5" outlet shall be adapted to 6" male thread with a protective cap. All threads shall be NST. Typical hydrants shall have a permanent sign attached indicating "For Draft Only".
- Cisterns of 30,000 gallons or more may qualify for ISO rating reduction for all structures within 1,000 feet of cistern.