



FIRE FLOW & HYDRANT WORKSHEET

(Revised 03/29/2006)

This worksheet is required to be submitted to and approved by the Authority Having Jurisdiction (AHJ) prior to DRC meeting for any project that is more than 3 stories or more than 30 feet in height above the lowest Fire Dept vehicle access point or for any other project that will require an Automatic Wet Standpipe System and/or Fire Pump before any permits for new building construction, building expansion or fire hydrants will be issued by the City of Clearwater. Information and design must comply with Florida Building Code, Chapter 9 - Fire Protection Systems, Florida Fire Prevention Code to include applicable NFPA Code (NFPA 1, 13, 13D, 13E, 13R, 14, 15, 20, 291 and 1142 Annex H) and AWWA M-17 - Installation, Field Testing and Maintenance of Fire Hydrants.

PROJECT INFORMATION

Project Name: _____

Project Address: _____

GENERAL WATER SYSTEM INFORMATION

Location of Nearest Fire Hydrant: _____ Hydrant #: _____

Size of Water Main Supplying Fire Flow: _____ Looped System or Dead End Water Main? _____

Static: _____ psi Residual: _____ psi Pitot: _____ psi Flow: _____ gpm

Distance of Test Gauges Relative to the Base of the Riser: Horizontal _____ Ft. Vertical Elevation _____ Ft.

Hydrant Test Conducted by: _____

(Include/Attach Copy of Actual Test Sheet)

NFPA HAZARD CLASSIFICATION

Area #	Classification	Description of Hazard Protected <i>(Commodity Description, Storage Height and Arrangement, if applicable):</i>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Attach Additional Sheets if Necessary

DESIGN PARAMETERS

Area #	System Type	Area (sq. ft.)	Density (gpm/ft)	Inside Hose (gpm)	Outside Hose (gpm)
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Attach Additional Sheets if Necessary

Total Needed Fire Flow (N.F.F.) _____

Is Existing System Supply Sufficient to Meet N.F.F. Above? _____ No _____ Yes

CODES AND STANDARDS

System Component	Applicable NFPA Standard / Year Edition and Other Applicable Codes or Statutes
_____	_____
_____	_____
_____	_____
_____	_____

Attach Additional Sheets if Necessary

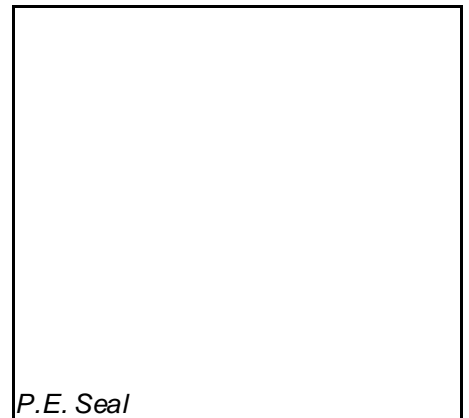
If Project Includes Fire Pump, Supply the Following:

Fire Pump Information: Pump Capacity: _____ gpm Churn Pressure: _____ psi
 Rated Pressure: _____ psi Pressure @ 150% Flow: _____ psi

On-Site Storage Tank Capacity (?): _____

PREPARER / SPECIFIER INFORMATION

Preparer Name: _____
 Company Name: _____
 Mailing Address: _____
 City: _____
 State: _____ Zip: _____
 Phone: _____ Fax: _____



ADDITIONAL INFORMATION REQUIRED

Fire Prevention Items to be Addressed Prior to DRC Approval:

1. Provide Fire Flow Calculations / Water Study by a FIRE PROTECTION ENGINEER to assure an adequate water supply is available and to determine if any upgrades are required by the developer due to the impact of this project. The water supply must be able to support the needs of any required fire sprinkler, standpipe and/or fire pump. If a fire pump is required, the water supply must be able to supply 150% of its rated capacity. Compliance with the 2004 Florida Fire Prevention Code to include NFPA 13, NFPA 14, NFPA 20, NFPA 291, and NFPA 1142 (Annex H) is required.
2. When an FDC is required, it shall be a minimum of 15 feet from building and shall have a fire hydrant within 40 feet. This hydrant shall not be located on the same main as the Fire Sprinkler and must be on the supply side of a double detector check valve. This hydrant is in addition to the hydrant that is required for firefighting purposes that is to be within 300 feet of building, as the hose lays, and on the same side of the street as the project.
3. Provide and show on the plan a minimum 30-foot turning radius for emergency vehicle ingress and egress at all entrances and exits.
4. Provide and show on the site plan 24 feet of width at driveways / drive aisles for emergency vehicle ingress and egress for front and rear parking lots. Where driveways are split by an island with one-way traffic, each side of the island shall provide and show on the site plan 20 feet of width at the driveways on each side of the island.
5. Provide a Fire Department access roadway (with turn-around, Y, T or cul-de-sac) in accordance with NFPA 1. A Fire Department access roadway must have 24-foot clear width and 14-foot vertical clearance, and be capable of supporting the weight of Fire Department vehicles (80,000lbs).