

Tequesta Fire Rescue Fire Hydrant Inspection Report

Hydrant #: 2-160 Date: 9/22/18 Inspector: NEWBERN										
Location: US HWY I N. @ CANAL CT.										
Static Pressure: 64 Pitot (Flow) Reading: Residual Pressure: 54	4/	Discharge Used (circle one) (2½") GPM: 1,069	4"							
<u>ITEM</u>	PASS/FAIL	REPAIRS NEEDED								
A) Height The center of a hos	re outlet must he	at least 18" above final grade.	•							
B) Paint										
C) Caps										
D) Chains										
E) Clearance										
All vegetation, and F) Operation Nut	other obstruction	s are at least 3' away from hydrant.								
G) Reflector		·								
Comments: STATIC HYDRAAT	T - US HI	NY I NO PARM CT.								
			-							

General guidelines:

- Prior to conducting hydrant flow test; notify the Water Dept. (575-6234).
- The test hydrant is the hydrant that the static and residual are taken at. There must be at least a 10% drop in the static pressure after opening the flow hydrant.
- From an accuracy standpoint it is preferable to use the 2½" outlet rather than the steamer outlet.
 - To determine gpm discharge from a hydrant use the formula: $29.7 \text{x} \sqrt{Px.9}$

FIRE HYDRANT FLOW TEST

APPLICATION

REQUESTED BY:	Amy Galvez c/o Simmons and White				
ADDRESS: 2581	Metrocentre Blvd. West, Ste. 3 West Palm Bach FL 33407				
PHONE NUMBER: _	561-478-7848				
FAX NUMBER:	561-478-3738				
	nonsandwhite.com				
	S:S1 and 19626 N. US. Highway 1 & 3471 Inlet Court and 3486 Canal Ct				
FIRE FLOW AREA, i (Per definition	on Fire Flow Information Sheet)				
CONSTRUCTION T	YPE: (use Florida Building Code type) VB unprot, & sprinkled				
TYPE OF PROJECT					
IS THIS PROPOSED CO SUPPRESSION SPRINK YES for Black YES for Black	NSTRUCTION PROJECT EQUIPPED WITH A FIRE SYSTEM?				
YOUR RESULTS WILL BE FAXED OR EMAILED TO YOU IF REQUESTED Submitted by: Name: (print) Amy Galvez Signature:					
Company Simmons and	White Cell #				
Attach the Fire-Rescue Department approval letter and a copy of this worksheet with the building's permit application. —not yet Submotted; being reguested now per VOT Site Plan comments					

FIRE FLOWS

The effective date for this requirement was January 1, 2013.

The Florida Fire Prevention Code (FFPC) now requires that a newly constructed or substantially improved buildings, including one and two-family homes, must be built within the parameters of the fire flow capability provided to that property. These flows and durations are important to ensure that there is a sufficient water supply to extinguish a fire in the building and to keep it from spreading to nearby buildings.

The Code requires a minimum of 1,000 gallons per minute (GPM) fire flow for duration of two hours for homes having a fire flow area of 5,000 square feet or less. Fire flows commercial construction and homes with a fire flow area exceeding 5,000 square feet shall not be less than that specified in the Florida Fire Prevention Code, NFPA 1, Chapter 18, Table 18.4.5.1.2. This table calculates the needed fire flow (GPM) based on the fire flow area and construction type of the building.

If the size of the proposed building or home design exceeds the water system capabilities, the Florida Fire Prevention Code provides the owner with a the means for meeting and/or reducing the fire flow requirements. These options are listed below and may be incorporated in the building design either individually, or in combination with others.

DESIGN OPTIONS

- A 50% reduction in the required fire flow can be attained with the installation of a
 fire sprinkler system. Installation requirements can be found in the Florida Fire
 Prevention Code 2010, NFPA 13D or the Florida Building Code 2010 Residential
 Chapter 29, Section P2904. The reduction shall not reduce the required fire flow
 to less than 500 gallons per minute (GPM).
- A 25% reduction in the required fire flow can be attained for homes with a fire area of 5,000 square feet or less when separated from other buildings by a minimum of 30-feet.
- Based on Table 18.4.5.1.2 in NFPA 1, reductions in the required fire flow can be attained using different construction types and/or fire resistive materials.
- Adding a fire hydrant and/or increasing the size of the water main distribution system to provide for a greater gallon per minute (GPM) flow.
- The Fire-Rescue Department will accept any other recognized fire flow calculation method as an equivalency to the FFPC, i.e. Insurance Services Office (ISO) Method, Iowa State University (ISU) Method, Illinois Institute of Technology Research Institute Method.

COMMONLY ASKED QUESTIONS REGARDING FIRE FLOW REQUIREMENTS

What is fire flow?

It's the amount of water available from a fire hydrant available for fire fighting. The fire hydrant must be within 1000' of the building being constructed,

What is fire flow area?

The fire area includes the total of all floor areas within the building, in square feet, is used to determine the required fire flow. This generally means the area within the surrounding exterior walls. Areas of the building without surrounding exterior walls should be included in the fire area if such areas are within horizontal projection of the roof or floor above.

How do I determine the available fire flow for construction site?

Complete the attached "Fire Hydrant Flow Test Application Form" and submit it to Tequesta Fire Rescue Administrative Office. Fire Rescue personnel will be scheduled to conduct the fire flow test of the water system nearest your proposed construction site. When the test is completed you will be provided with documentation of the test and an approval letter for Building Permit Application, if the water is available for your project.

Is there a fee charged for a fire flow test?

Yes, Fire Rescue administration will provide you the current rate for this test. Fee's need to be collected prior to the test being performed; you can call 561-768-0550 to check on the cost of this test.



LETTER OF TRANSMITTAL

2581 Metrocentre Blvd. West, Suite 3 West Palm Beach, FL 33407			DATE	9-20-18	JOB 17-137			
561.478.7848 561.478.3738 www.simmonsandwhite.com				ATTENTION				
			RE:	RE: Pelican Square				
	questa Fir	e Rescue						
357 Tequ	, FL 33469			W.				
VIA: courier WE ARE SENDING YOU Attached □ Under services □ Under serv				senarate	e cover via the	following items:		
☐ Shop Drawings				Plans	Samples	Specifications		
	of letter	•	☐ Change Order]				
□ сору	Of letter		Change Order					
COPIES	DATE	NO.	DESCRIPTION					
1			Fire Hydrant Flow Test Ap	plication -	+ Site Plan			
1			\$131.61 fee					
THESE	ARE TRA	NSMITTE	D as checked below:					
☐ For A	pproval		☐ Approved as Submitte	ed	Resubmit	copies for approval		
□ For your Use			☐ Approved as Noted	proved as Noted Submit copies for distribution				
☐ As R	equested		Returned for correction	ons Return corrected prints				
☐ For F	Review & C	Comment						
☐ FOR BIDS DUE ☐ PRINTS RETURNED AFTER LOAN TO US								
REMARK	S							
					. ^			
COPY TO	me know i	t you need	any additional information.		1!	,		
COPY 10				SIGNED	1/m/19/			
			9	NAME /	Amy N. Galvez, P.E.			

