



Project: 911 E. Atlantic Blvd. - Pompano Beach, FL	Date:
Project No. 13376.01	10/3/2023
Computed by: JL	Page:
Checked by: NW	1

COMPUTING WORKSHEET

Summary of required Fire Flow

1. Site Data

Structure	Bldg Area	Fire Flow Area
Building	45,906 SF	123,221 SF (Max. with 1 hr rated fire wall separation)

Building Type

Type of Construction - II(222) - from NFPA 220; Fire-Resistive, Non-Combustible

2. Determine Required Fire Flow per Florida Fire Prevention Code (NFPA 1 as amended) (Sprinklered Building)

Building

Required Fire Flow (RFF) = **3,750 gpm @ 20 PSI** per NFPA 1 Ch 18 table 18.4.5.1.2

Duration = **3** Hours

3. Determine Required Fire Flow per Florida Fire Prevention Code (NFPA 1 as amended) (For NFPA compliant Automatic Sprinklered Building)

Building

Sprinklered Bldg Required Fire Flow reduce RFF by 75% = **937.5 gpm @ 20 PSI**

Minimum Required Flow for Sprinklered Bldg = **1000 gpm @ 20 PSI** USE **1,000 gpm**

Minimum Required Flow for Quick Response Heads = **600 gpm @ 20 PSI** USE **1,000 gpm**

Total Required Fire Flow **1,000 gpm**

4. Determine Available Flow from Flow Test

Total Flow at 20 psi using test data Residual Pressure

Total Available Flow @ 20 psi **2,661 gpm** Exceeds Required Fire Flow (RFF)

Available flow exceeds Required Fire Flow sprinklered building

Total Flow at 20 psi with Design System Residual Pressure Adjusted to 50 psi

Total Available Flow @ 50 psi Static **1,918 gpm** Exceeds Sprinklered Bldg RFF

Available flow exceeds Required Fire Flow for sprinklered Building

DRC

PZ23-12000043
02/21/2024

DRC

PZ23-12000043
11/15/2023