Fire Hydrant Flow Test Form

Required fields highlighted in blue.

Auto-populated Fields:

% Pressure Drop, Total Water Loss, Residual Flow, Fire Flow at 20PSI, and NFPA 291 Standard Color Code.

I. Project Information

Name: V.K. Knowlton Construction & Utilities, Inc.	**Phone:** (210) 651-6860
Company Address: 18225 FM 2282 San Antonio, TX 78266	
Project Name: THE LANDING - UNIT 1	
NBU Work Order Numbers:	

Point #	Grid Easting	Grid Northing	Elevation	Code	FH#
32	13812057.8900	2274090.0790	690.231	F/H	5

Test #: 5

II. Flow Test Data

Click **Reset Fields** to recalculate auto-populated fields.

Test Hydrant	**NBU FH ID #:**	**Plan Sheet/Hydrant #:** Sheet C6.2 4		**Private:** No
	Location Description: Jet Place at Mach Bend			
	Size and Material of Main: 12 inch main C-900 (200)			
	Manufacturer: CLOW	**OEM Year:** 2023		
	Static PSI: 88	**Residual PSI:** 52	**% Pressure Drop: 40.91**	**Date and Time:** 2/13/2025 9:45 am
Flow Hydrant 1	**NBU FH ID #:**	**Plan Sheet/Hydrant #:** Sheet C6.2 5		**Diameter:** 2.5
	Size and Material of Main: 12 inch main C-900 (200)			
	Pitot PSI: 26	**Observed Flow:** 856	**Minutes Flowed:** 2	
	Total Water Loss: 1712			
Flow Hydrant 2 (OPTIONAL)	**NBU FH ID #:**	**Plan Sheet/Hydrant #:** Sheet C6.2 5		**Diameter:** 2.5
	Size and Material of Main: ~~FLOWING BOTH OUTLETS OF HYDRANT 1~~			
	Pitot PSI: 26	**Observed Flow:** 856	**Minutes Flowed:** 2	
	Total Water Loss: 1712			

III. Calculations (Auto-populated)

Residual Flow $Qr = 29.83 \times cd \times D^2 \sqrt{Pp} \times Hf$	**Fire Flow at 20 PSI** $Qf = Qr \times ((Ps-20 / (Ps - Pr))^{0.54}$
Cd = 0.9	**Qr =** 1711
D = 2.5	**Ps =** 88
Pp = 26	**Pr =** 52
Hf = 2	**Qf =** 2412
Qr = 1711	**NFPA 291 Standard Color Code :** 1500 GPM & Above = Light Blue

IV. Tester/Company Information

Flow Test Conducted by: PROTECTION DEVELOPMENT, INCORPORATED	**Phone:** (210) 828-7533
Business License #: Texas Registered Engineering Firm (F-2816)	
Company Address: 8620 North New Braunfels Avenue, Suite 100, San Antonio, Texas 78217	
Print Name: Alex Akeroyd and Nicholas Balanciere	**Date:** 02/13/2025

V. NBFD Fire Hydrant Flow Requirements (To be completed by Fire Department)

Print Name:	Title:	Accepted:
Signature:	Date and Time:	

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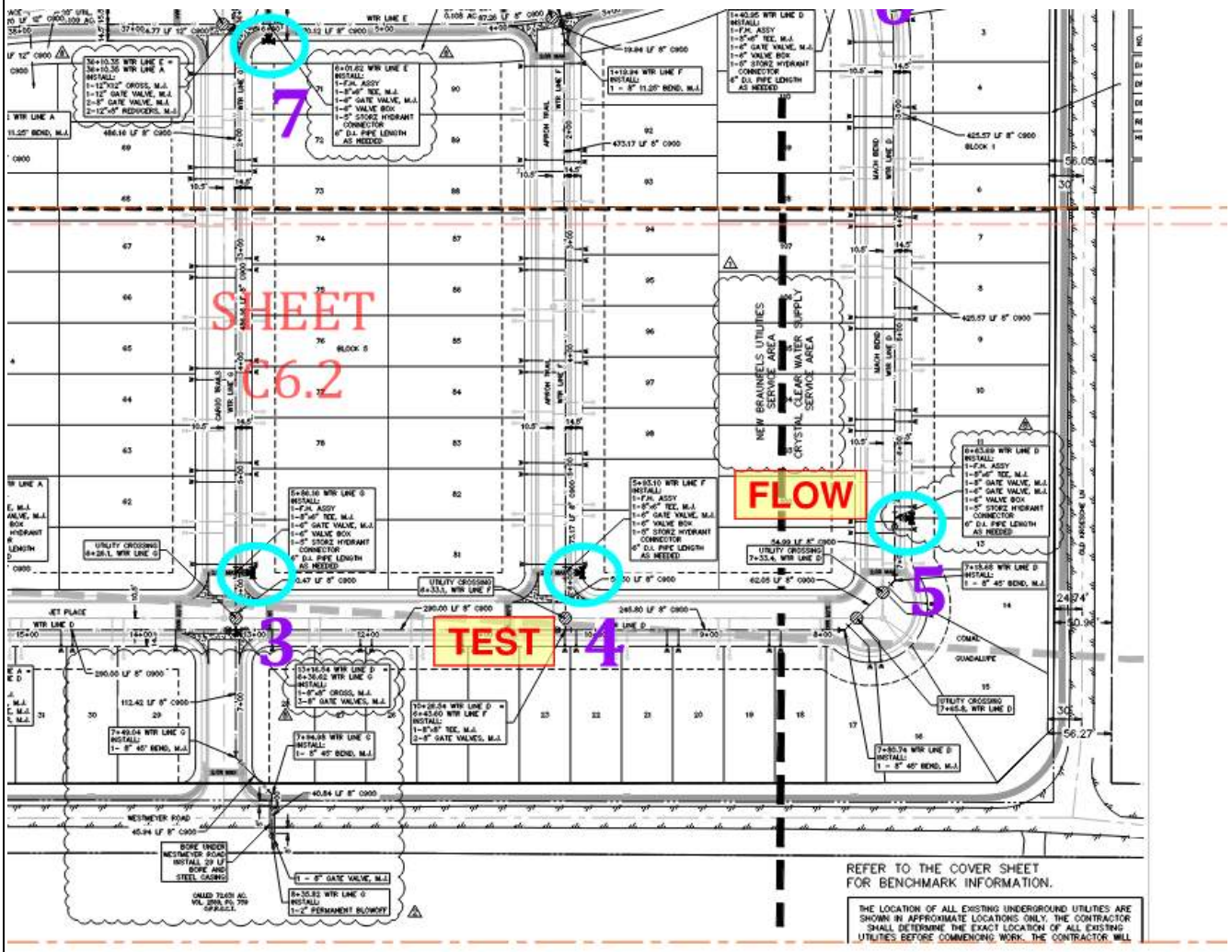
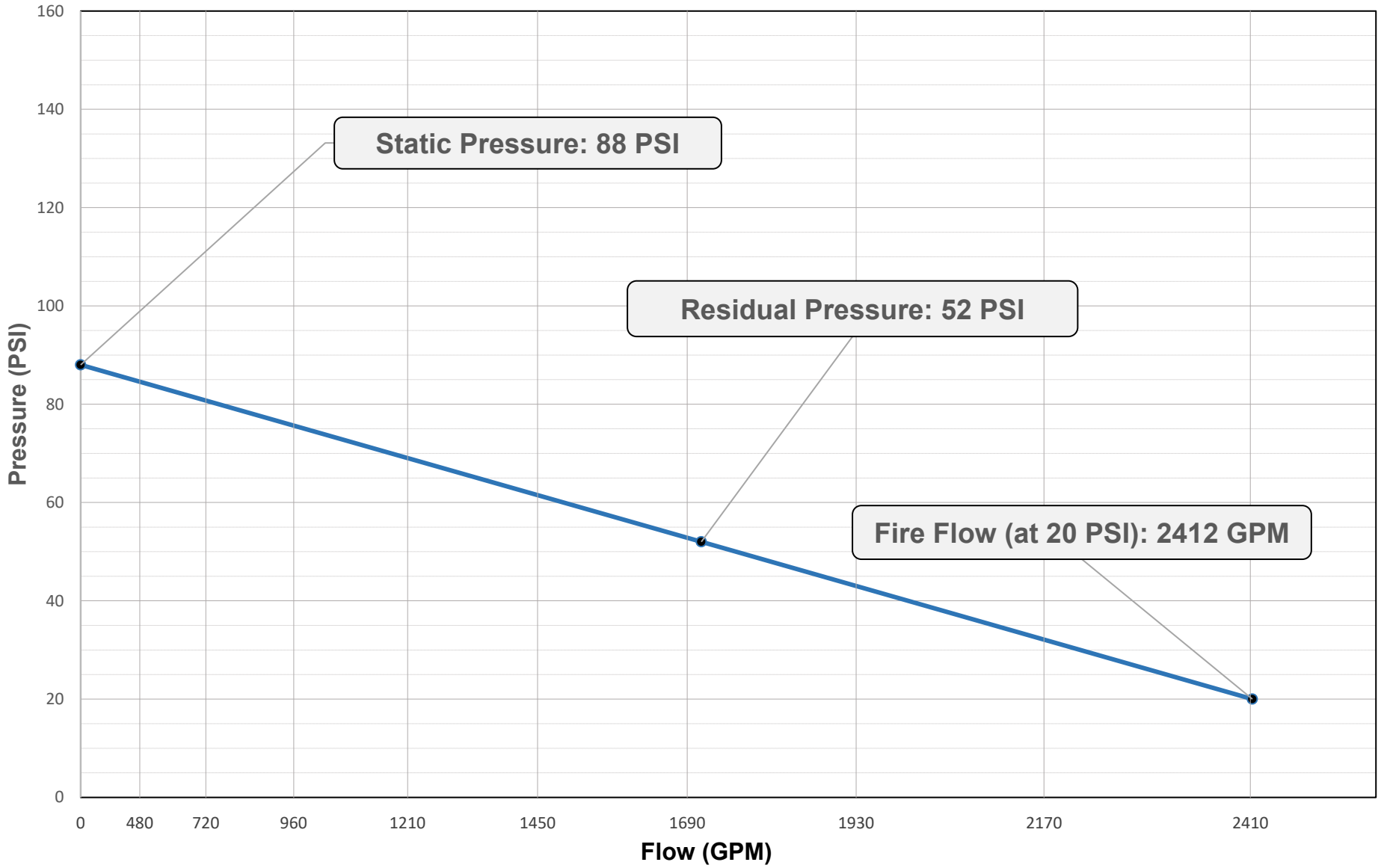
VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Protection Development Incorporated
Fire Protection Engineering

Project Name:	The Landing Unit 1 - Test #5
Project Number:	25-0033
Test Date:	February 13, 2025
City:	New Braunfels



Static Pressure:	88 PSI	**Residual Pressure:**	52 PSI	**Flow Test @ Residual Pressure:**	1,711 GPM	**Fire Flow (at 20 PSI):**	2,412 GPM