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 2252, San Antonio, Texas 78266	
Project Name: STEELWOOD TRAIL UNIT 4	
NBU Work Order Numbers: W-209398	

TEST # **9**

II. Flow Test Data

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

Test Hydrant	**NBU FH ID #:** 15200	**Plan Sheet/Hydrant #:** NBU Asset Map / 15200		**Private:** No
	Location Description: Swift Fox Road at Clear Sky View			
	Size and Material of Main: 12" C900 (DR-18)			
	Manufacturer: CLOW		**OEM Year:** 2024	
	Static PSI: 74	**Residual PSI:** 52	**% Pressure Drop:** 29.73	**Date and Time:** 9/16/2025 9:58 am
Flow Hydrant 1	**NBU FH ID #:** ID #36	**Plan Sheet/Hydrant #:** C6.01 / ID #36		**Diameter:** 2.5
	Size and Material of Main: 8" C900 (DR-18)			
	Pitot PSI: 30	**Observed Flow:** 919	**Minutes Flowed:** 2	
	Total Water Loss: 1838			
Flow Hydrant 2 (OPTIONAL)	**NBU FH ID #:** ID #36	**Plan Sheet/Hydrant #:** C6.01 / ID #36		**Diameter:** 2.5
	Size and Material of Main: ***flowing both outlets of hydrant***			
	Pitot PSI: 30	**Observed Flow:** 919	**Minutes Flowed:** 2	
	Total Water Loss: 1838			

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 =** 1838
D = 2.5	**Ps =** 74
Pp = 30	**Pr =** 52
Hf = 2	**Qf = 2985**
Qr = 1838	**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 Geoff Owens	**Date:** 09/16/2025

2025-0223

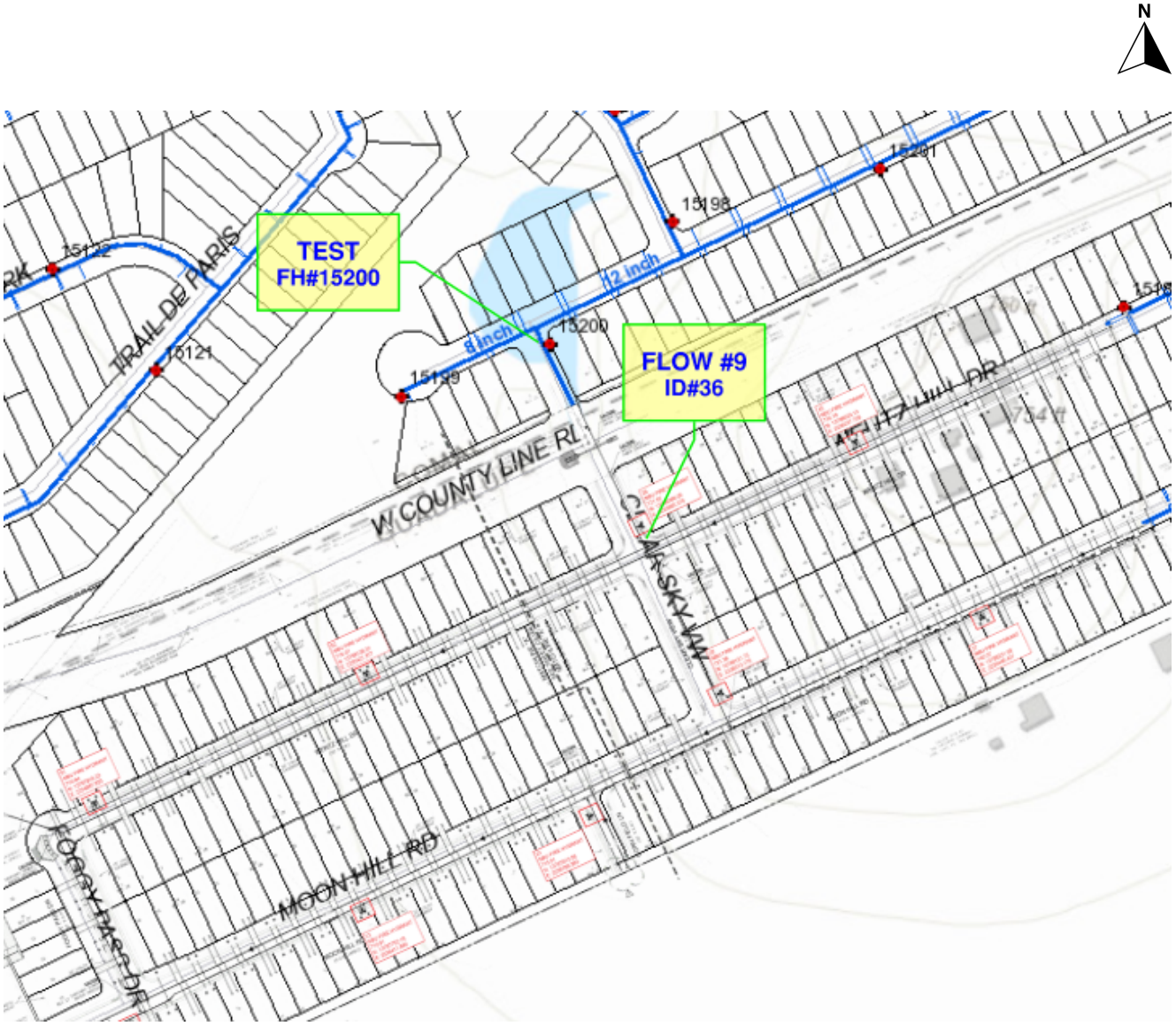
V. NBFD Fire Hydrant Flow Requirements (To be completed by Fire Department)

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

Fire Hydrant Flow Test Form

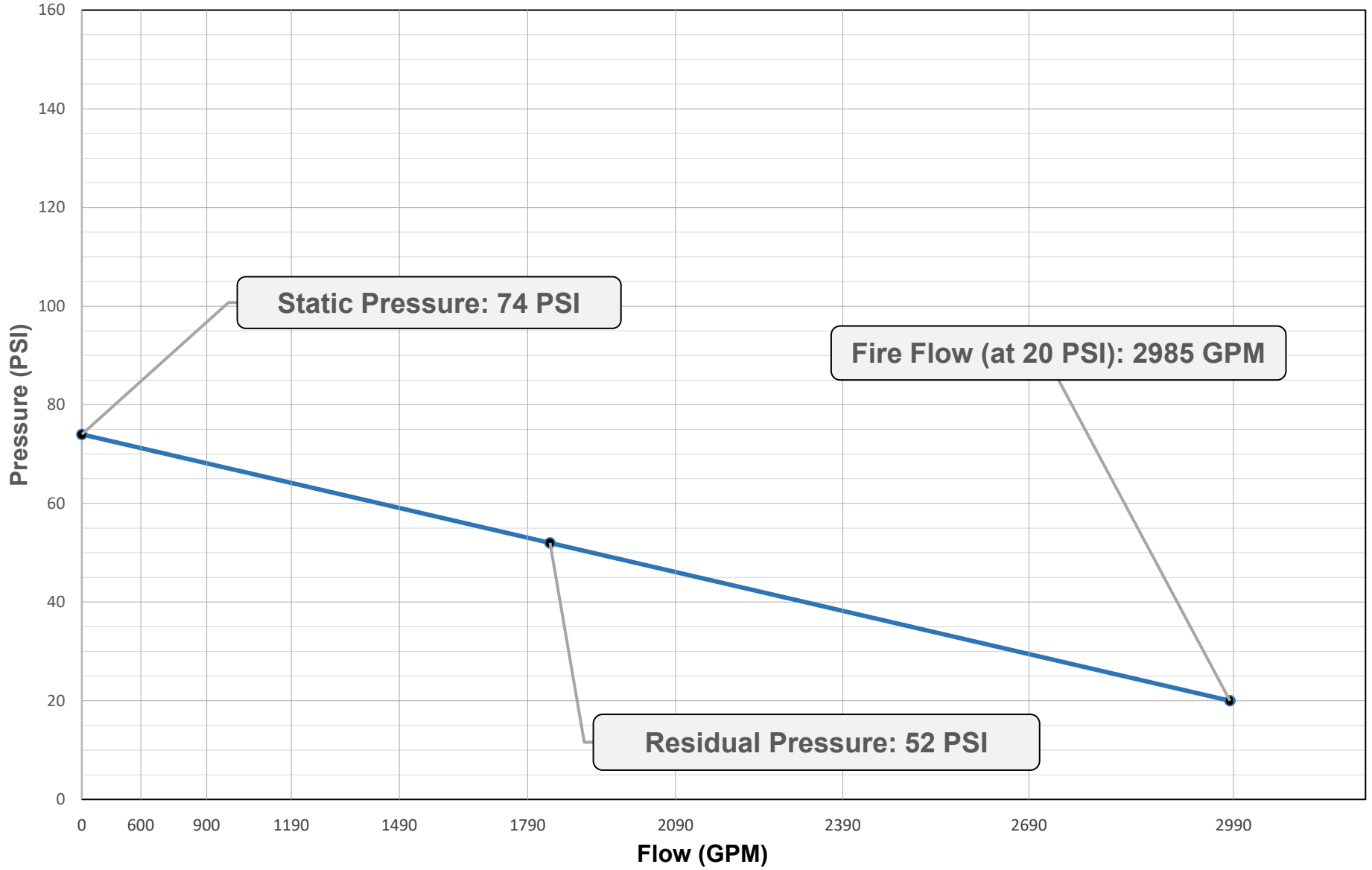
VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Protection Development Incorporated
Fire Protection Engineering

Project Name:	Steelwood Trail Unit 4 - Test #9
Project Number:	25-0223
Test Date:	September 16, 2025
City:	New Braunfels



Static Pressure:	74 PSI	**Residual Pressure:**	52 PSI	**Flow Test @ Residual Pressure:**	1,838 GPM	**Fire Flow (at 20 PSI):**	2,985 GPM