Fire Hydrant Flow Test Form

Test form to be filled out and returned in PDF format.

Click to **Reset Fields** in II. Flow Test Data and III. Calculations.

Hover cursor over fields to display ToolTips.

I. Project Information (To be completed by Applicant)

Name:	V.K. Knowlton Construction & Utilities, Inc.	Phone: (210) 651-6860	
Company Address:	18225 FM 2252, San Antonio, Texas 78266		
Project Name:	**Veramendi Pct 4, Unit 1**	**(Test #1)**	
NBU Work Order Numbers:	W-231555 / WW-231556		

II. Flow Test Data (To be completed by Applicant)

Test Hydrant	NBU FH ID #: 42295	Plan Sheet/Hydrant #: NBU ASSET MAP / FH 42295			Private: No
	Location Description: Hill Country Drive at Word Parkway				
	Size and Material of Main: 16" C-900 DR-18				
	Manufacturer: MUELLER CENTURION	OEM Year: 2024			
	Static PSI: 50	Residual PSI: 34	% Pressure Drop: **32.00**	Date and Time: 7/24/2026 9:25 am	
Flow Hydrant	NBU FH ID #: 42331	Plan Sheet/Hydrant #: Unit 1 Sheet C4.00 / FH 42331			Diameter: 2.5
	Size and Material of Main: 16" C-900 DR 18				
	Pitot PSI: 18	Observed Flow (GPM): 712	Mins Flowed: 1	Date and Time: 7/24/2026 9:25 am	
	Total Water Loss: 712				
flowing 2 outlets of one hydrant Flow Hydrant	NBU FH ID #: 42331	Plan Sheet/Hydrant #: Unit 1 Sheet C4.00 / FH 42331			Diameter: 2.5
	Size and Material of Main: 16" C-900 DR 18				
	Pitot PSI: 18	Observed Flow (GPM): 712	Mins Flowed: 1	Date and Time: 7/24/2026 9:25 am	
	Total Water Loss: 712				

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 =** 1424
D = 2.5	**Ps =** 50
Pp = 18	**Pr =** 34
Hf = 2	**Qf =** 1999
Qr = 1424	**NFPA 291 Standard Color Code :** 1500 GPM & Above = Light Blue

IV. Tester/Company Information (To be completed by Applicant)

Flow Test Conducted by:	Protection Development, Incorporated	Phone: (210) 828-7533	
Business License #:	Texas Registered Engineering Firm (F-2816)		
Company Address:	8620 N. New Braunfels Avenue, Suite 100, San Antonio, Texas 78217		
Signature:	Geoff Owens & Landon Jensen	Date: 07/24/2026	

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

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

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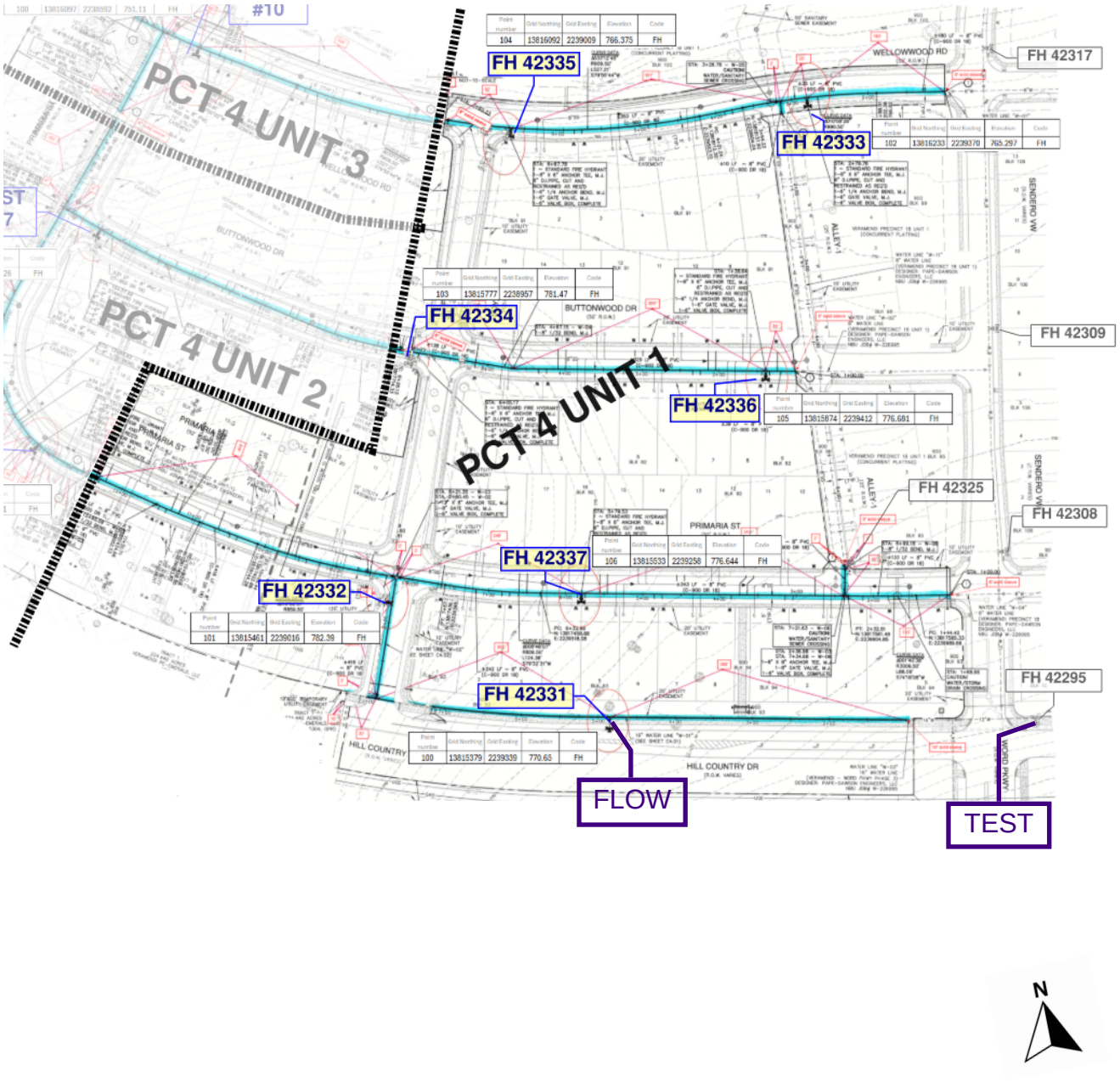
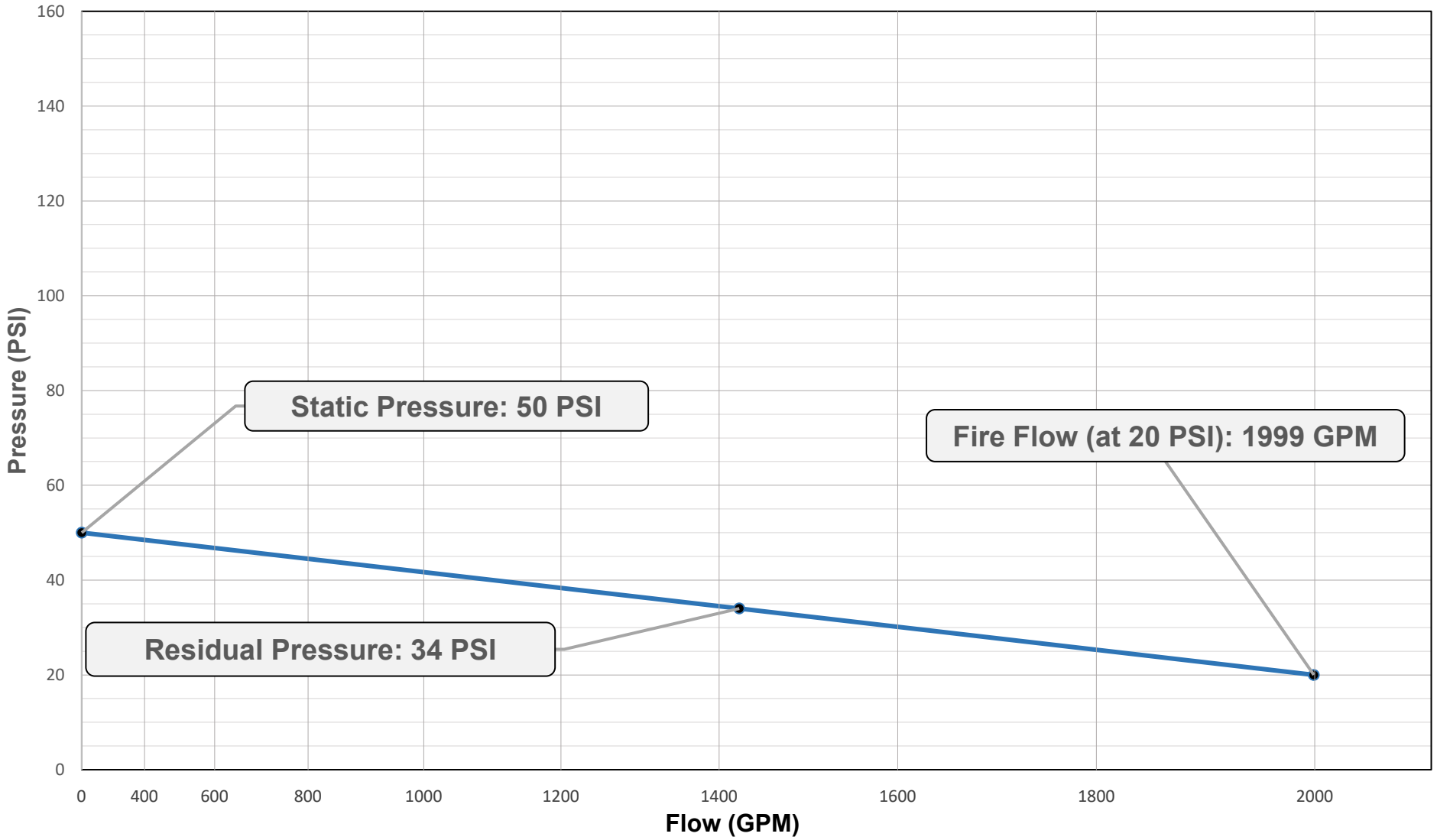
VI. Sketch (Attach any additional calculations and graphs made by testing company)

Label Hydrant Numbers and Street Names



Protection Development Incorporated
Fire Protection Engineering

Project Name:	Veramendi Pct 4, Unit 1 (Test #1)
Project Number:	26-0138
Test Date:	July 24, 2026
City:	New Braunfels



Static Pressure:	50 PSI	**Residual Pressure:**	34 PSI	**Flow Test @ Residual Pressure:**	1,424 GPM	**Fire Flow (at 20 PSI):**	1,999 GPM