

**CITY OF ROCHESTER HILLS
HYDRANT FLOW TEST**

Date: 6/1/2023 Time: 11:00 AM

Test Performed By: W. RYBAK M. GREENWOOD

Location: 1655 East Auburn

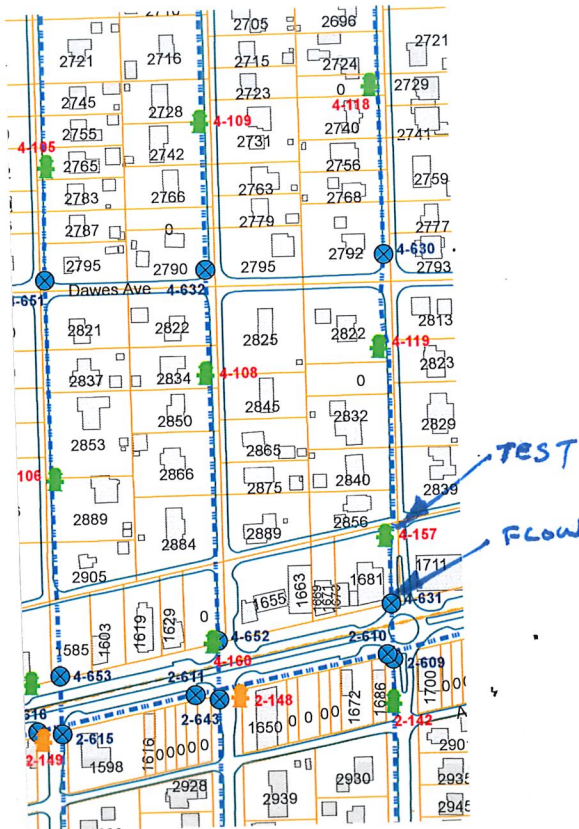
Calculations Performed By: Wayne Rybak

Number of Hydrants Flowing: 1
 Number of Outlets Open: 1
 Size of Outlet, D (Inches): 3 3/4
 Friction Loss Coefficient, C_d : 9
 Static Pressure, P_s (psi): 80
 Residual Pressure, P_r (psi): 68
 Pito Pressure, P_p (psi): 35
 Residual Flow, Q_r (GPM): 3114/2585* $Q_r = 29.83 C_d D^2 (P_p)^{0.54} / \# \text{Outlets}$
 Fire Flow at 20 psi, Q_f (GPM): 7426/6204* $Q_f = Q_r [(P_s - 20) / (P_s - P_r)]^{0.64}$
 Supply Main Size (piko hydrant): 8"
 Supply Main Size (static hydrant): 8"

* Multiplied by .83 per NFPA 291

Drawing of Flow Test Site (include location of flow & test hydrant):

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To	<u>Juan Blanco</u>	From	<u>Wayne Rybak</u>		
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