

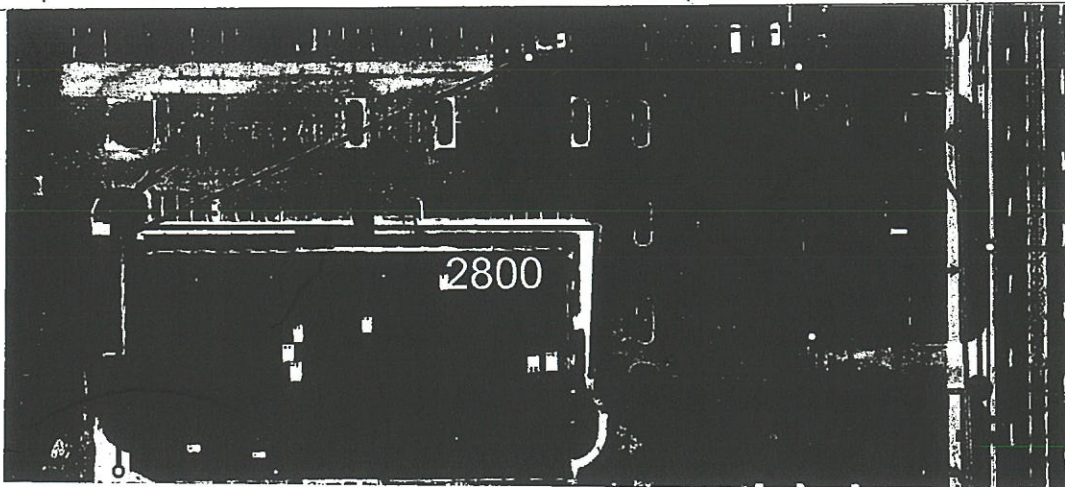
**CITY OF ROCHESTER HILLS
HYDRANT FLOW TEST**

Date: 7/14/21 Time: 8AM
 Location: 2800 S Rochester Rd

Test Performed By: W RYBAK S. BOTT
 Calculations Performed By: Wayne Rybak

Number of Hydrants Flowing:	<u>1</u>	
Number of Outlets Open:	<u>1</u>	
Size of Outlet, D (Inches):	<u>2 1/2</u>	
Friction Loss Coefficient, C _d :	<u>9</u>	
Static Pressure, P _s (psi):	<u>62</u>	
Residual Pressure, P _r (psi):	<u>48</u>	
Pitg Pressure, P _p (psi):	<u>29</u>	
Residual Flow, Q _r (GPM):	<u>904</u>	$Q_r = 29.83 C_d D^2 (P_p)^{0.54} \text{ #Outlets}$
Fire Flow at 20 psi, Q _f (GPM):	<u>1636</u>	$Q_f = Q_r [(P_s - 20) / (P_s - P_p)]^{0.54}$
Supply Main Size (pito hydrant):	<u>6"</u>	
Supply Main Size (static hydrant):	<u>8"</u>	

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



**CITY OF ROCHESTER HILLS
HYDRANT FLOW TEST**

Date: 7/14/21 Time: 8:30 AM Test Performed By: W. Rybak S. Boh
 Location: NE Corner Avon/Rochester Calculations Performed By: Wayne Rybak

Number of Hydrants Flowing: 1
 Number of Outlets Open: 1
 Size of Outlet, D (Inches): 2 1/2"
 Friction Loss Coefficient, C_d: 9
 Static Pressure, P_s (psi): 62
 Residual Pressure, P_r (psi): 52
 Pico Pressure, P_p (psi): 33
 Residual Flow, Q_r (GPM): 964 $Q_r = 29.83 C_d D^2 (P_p)^{0.54} \# \text{Outlets}$
 Fire Flow at 20 psi, Q_f (GPM): 2092 $Q_f = Q_r [(P_s - 20) / (P_s - P_r)]^{0.54}$
 Supply Main Size (pico hydrant): 6" (off of 8")
 Supply Main Size (static hydrant): 16"

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

