

CITY OF ROCHESTER HILLS
HYDRANT FLOW TEST

Date: 3/30/2026 Time: 10:00 AM Test Performed By: W. Rybak, M. Greenwood, M. Phillips

Location: 1150 E. AVON Calculations Performed By: WAYNE RYBAK

Number of Hydrants Flowing: 1
 Number of Outlets Open: 2
 Size of Outlet (D): 2 1/2 inches
 Friction Loss Coefficient (C_d): .90
 Static Pressure (P_s): 54 psi
 Residual Pressure (P_r): 42 psi
 Pito Pressure (P_p): 27 psi
 Residual Flow (Q_r): 1744 GPM $Q_f = 29.83 C_d D^2 (P_p)^{.5}$
 Fire Flow @ 20 psi (Q_f): 3060 GPM $Q_f = Q_r (P_s - 20) / (P_s - P_r)^{.54}$
 Supply Main Size (pito hydrant): 8 inches
 Supply Main Size (static hydrant): 16 inches

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

