Step 1: List Variables

FLOW TEST ID # _____ *

ST_{FT} = Static Pressure @ Pressure Hydrant location   _____ psi *

RP_{FT} = Residual Pressure @ Pressure Hydrant location   _____ psi *

Q_{FT} = Flow rate @ Residual Pressure of flow test   _____ gpm*

Q_{DD} = Flow rate of Design Demand   _____ gpm

RP_{DD} = Residual Pressure @ Pressure Hydrant @ Design Demand   see below

* = Directly read from FLOW TEST

Step 2: Determine RP_{DD}

$$RP_{DD} \; = \; ST_{FT} \; - \; \left[\, (ST_{FT} \, - \, RP_{FT})^{\,1/1.85} \; * \; \frac{Q_{DD}}{Q_{FT}} \, \right]^{1.85}$$

$$RP_{DD} \; = \; \boxed{} \; - \; \left[\, (\boxed{} \, - \, \boxed{} \,)^{\,1/1.85} \; * \; \frac{\boxed{}}{\boxed{}} \, \right]^{1.85}$$

$$RP_{DD} \; = \; \boxed{} \; - \; \left[\, (\boxed{})^{\,1/1.85} \; * \; \boxed{} \, \right]^{1.85}$$

$$\boxed{} \; - \; \left[\, \boxed{} \; * \; \boxed{} \, \right]^{1.85}$$

$$\boxed{} \; - \; \boxed{}^{\,1.85}$$

$$\boxed{} \; - \; \boxed{}$$

$$RP_{DD} \; = \; \boxed{} \;\; psi$$