ORIFICE SIZING EQUATION

\[ Q = CA\left(2gH\right)^{\frac{1}{2}} \]

\( Q \) = PEAK DISCHARGE RATE, cfs
\( C \) = COEFFICIENT OF DISCHARGE,
DIMENSIONLESS, (USE NOMINAL Value of 0.80)
\( A \) = CROSS SECTIONAL AREA OF
ORIFICE, SQUARE FEET.
\( g \) = ACCELERATION DUE TO
GRAVITY, 32.16 FT./SEC./SEC.
\( H \) = HEAD ON THE ORIFICE, FEET.

NOTES:
1. ORIFICE PLATE TO BE SET ON OUTLET PIPE
WALL AT EACH BASIN AS INDICATED ON PLANS.