



Orifice sizing Equation

$$Q = CA(2gH)^{1/2}$$

Q = Peak Discharge Rate, cfs

C = Coefficient of Discharge.
dimensionless, (use nominal
value of 0.60)

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:

ORIFICE PLATE TO BE SET ON THE UPSTREAM OUTLET
PIPE WALL AT EACH BASIN AS INDICATED ON PLAN.

ORIFICE PLATE SHALL NOT BE ATTACHED TO ENDWALLS
SUCH AS THAT SHOWN ON DRAWING DCED-S165.

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STANDARD CONSTRUCTION DRAWING

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OUTLET CONTROL
ORIFICE
PLATE

APPROVED

1-22-2008

REVISED

1-04-2010

Delaware County Engineer

Drawn KS

Checked EM

sheet 1

of 1

FILE NO.

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