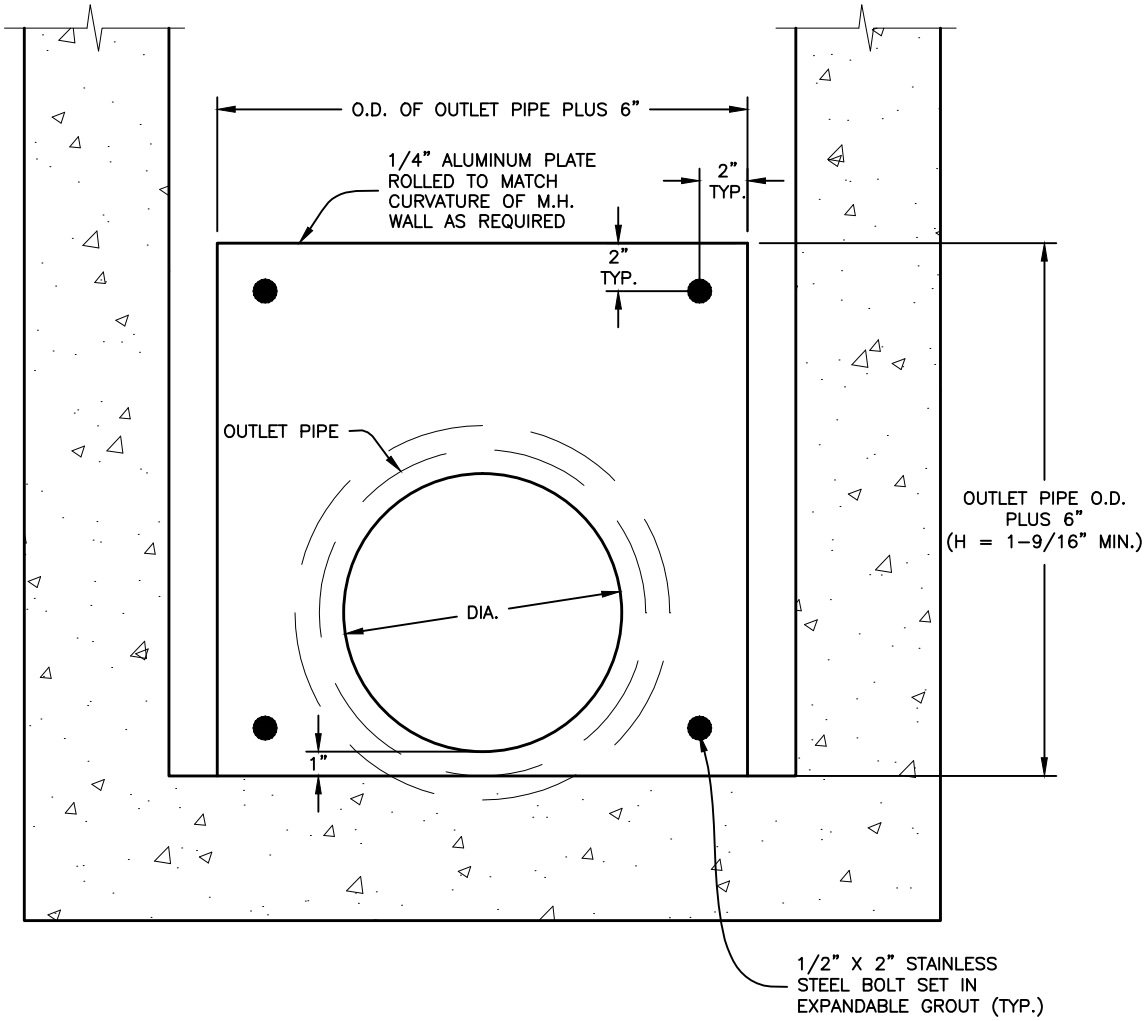

ORIFICE SIZING EQUATION

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

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:

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

CITY OF COLUMBUS, OHIO DEPARTMENT OF PUBLIC UTILITIES DIVISION OF SEWERAGE & DRAINAGE	OUTLET CONTROL ORIFICE PLATE	STANDARD DRAWING AA-S145
SSES MANAGER		REVISED 7/9/12
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