X = Distance to flanking inlet in sag vertical curve locations using depth at curb criteria (ft).										
Speed (mi/h)	19	25	32	38	44	51	57	63	69	76
d↓ K→	13	27	40	60	83	107	133	170	207	243
0.1	16.1	162.7	234.9	319.4	415.5	511.0	608.1	725.9	851.2	968.5
0.2	14.0	97.6	129.1	158.0	189.4	219.3	246.5	276.9	308.8	382.5
0.3	20.3	129.1	169.7	207.9	249.6	288.3	324.2	363.9	406.7	444.7
0.4	26.1	153.4	202.2	247.4	297.0	342.9	385.3	433.4	483.5	528.6
0.5	31.3	174.9	229.6	281.1	337.2	389.6	438.4	492.1	549.4	601.0
0.6	36.3	192.9	254.2	310.7	373.8	431.3	484.3	544.4	607.4	664.7
0.7	41.0	210.2	275.9	338.0	406.2	468.7	527.4	592.4	661.1	723.4
0.8	45.6	225.6	296.3	363.3	436.5	503.9	567.0	636.9	710.6	777.8

NOTES:
1. $x = (200dK)^{0.5}$, where x = distance from the low point to flanking inlet, ft
2. Drainage maximum K = 170 (ft/% A) for curbed facilities
3. d = depth at curb, ft
4. K = L/A Where:

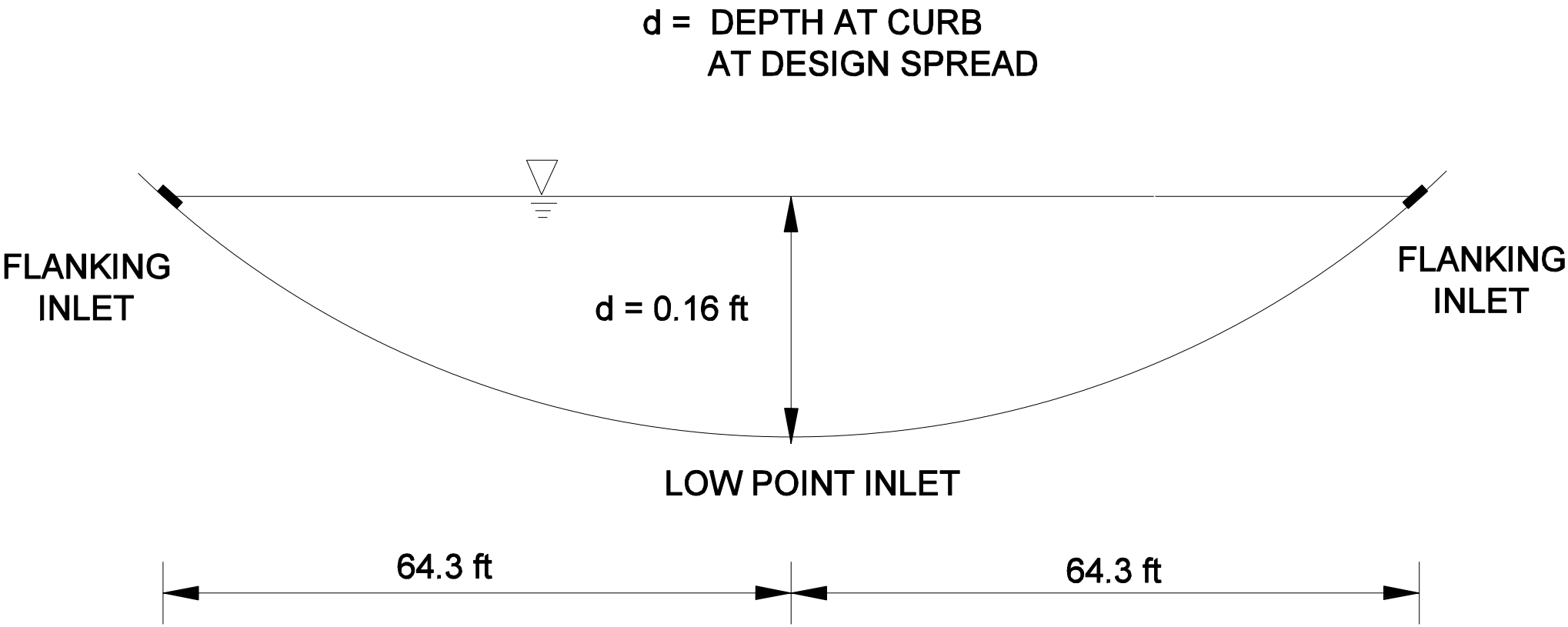
L = Length of vertical curve, ft
A = Algebraic difference in approach grades,%

Reference: HEC 12 (modified)

Example Problem 36-10.3 (Flanking Inlet at Sag Point)

FLANKING INLET LOCATIONS
Figure 36-10E

Back To Flanking Inlet Locations



EXAMPLE PROBLEM 36-10.3

(Flanking inlets at Sag Point)