



CURVED SEWER LINES

MINIMUM RADII OF CURVATURE FOR VITRIFIED CLAY PIPE

NOMINAL PIPE DIA.	ANGULAR DEFL. PER JOINT	APPROX. MAX. DEFL. PER FOOT OF PIPE ASTM C-425	MINIMUM RADIUS OF CURVATURE						
			1' PIPE LENGTH	2' PIPE LENGTH	3½' PIPE LENGTH	5' PIPE LENGTH	5½' PIPE LENGTH	6' PIPE LENGTH	7' PIPE LENGTH
4"	2½°	½"	23'	46'	81'	115'	126'	138'	161'
6"	2½°	½"	23'	46'	81'	115'	126'	138'	161'
8"	2½°	½"	23'	46'	81'	115'	126'	138'	161'
10"	2½°	½"	23'	46'	81'	115'	126'	138'	161'
12"	2½°	½"	23'	46'	81'	115'	126'	138'	161'
15"	2°	¾"	29'	58'	101'	143'	158'	172'	201'
18"	2°	¾"	29'	58'	101'	143'	158'	172'	201'
21"	2°	¾"	29'	58'	101'	143'	158'	172'	201'
24"	2°	¾"	29'	58'	101'	143'	158'	172'	201'
27"	1½°	¼"	38'	77'	134'	191'	210'	230'	268'
30"	1½°	¼"	38'	77'	134'	191'	210'	230'	268'

The following equations have been used in developing the radius figures in the table above.

EQUATIONS: $R = \frac{360 \text{ deg.} \times L}{\Theta \text{ deg.} \times 2\pi}$

EXAMPLE: $\Theta = 2 \text{ deg.} \quad L = 7'$

$$R = \frac{360 \times 7}{2 \times 2\pi}$$

$$R = \frac{180 \times 7}{1 \times 2\pi} = 200.8'$$

Θ = Allow defl. angle per joint, R = Min. Radius of Curvature
L = Length of pipe. Note: When Θ is maximum, R will be minimum.