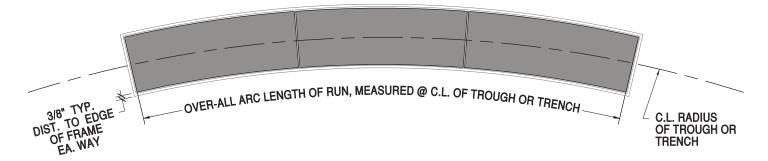
Radius Trench Cover Considerations and Calculations



In order for us to collaborate with you on your radius trench project, we need to know & you need to consider the following:

- 1. We can make a grating system to fit just about any sittuation.
- 2. Your design selection, be it a currently stocked, or custom adaptation of your design and nominal size of trench cover.
- 3. Radius of trench, measured @ C.L.
- 4. Over-all length of run, that would be the C.L. arc length. OR: number of castings. Keep in mind that the length of trench cover castings vary w/ manufacturer of trough that our designs are intended to fit (i.e. ACO = 19.69", NDS = 24", or custom design length).
- 5. Will partial castings be acceptable? If not, over-all length must be adjusted to nearest whole grate.
- 6. To calculate complete circles:

Divide the C.L. circumference in inches (3.1416 x dia.) by the length of your design selection (products for ACO = 19.625", NDS = 24", or custom design) this will produce the number of castings.

There will likely be a fraction in your answer. Will partial castings be acceptable? If not, we will have to adjust either the length of the run or the radius a bit in order to accommodate.

To calculate the number of whole castings in a circle:

Take the previous fractional answer and do this simple calculation - twice: once w/ the smaller whole number, and again w/ the next larger whole number.

of castings x length in inches (ACO = 19.625", NDS = 24", or custom) divided by 3.1416 = diameter in inches, divide by 12 to get feet.

Then you must decide which of these two C.L. diameters will work for you. A custom design can accomodate any diameter in equal pieces.

- 7. If frames are to be included, please specify frame type (see frame type drawings) and load requirement (pedestrian, med. duty, vehicular).
- 8. Trench covers can be bolted to frames for the purpose of maintaining equal spacing between castings, tamper resistance or increasing load bearing capacity.

