

# **STANDARD VS NON-STANDARD GU MANHOLE BASE LINER CONFIGURATIONS**

## **SUGGESTIONS FOR THE ENGINEERING COMMUNITY DESIGNING WASTEWATER SYSTEMS WITH GU LINER PRODUCTS**

We recognize the challenges that engineers face today with system design. The multitude of regulation at all levels, navigating around existing utilities, questionable as-built plans and budgetary concerns etc.

And now we ask you to plan ahead to incorporate more standard configurations with system design as outlined in the document "Procedure for Ordering & Classification for Pricing".

With, for example 48" dia. manholes with 6"-12" channel diameters the standard molded invert difference is 0.1 ft. The same elevation change at inlet connections of equal diameter assures a standard lateral. It is best to avoid elevation changes up to 2.0' (24") on main channels or lateral connections if the possibility of re-grading the pipeline or choosing another alternate exists. Planning the system with an Inside drop and standard base liner should be considered if re-grading/design is impractical. Our pipe connections can pick up any pipe slope and the GU Inside drop is an economical fitting.

Smaller diameter lines entering a larger diameter main channel are best designed by matching the crown(s) of the lateral pipe(s) with that of the largest diameter inlet pipe. The elevation change would be the difference of the nominal pipe diameters.

Observing these points at the planning stage translates to economic benefit with substantially less concrete volume and dead weight, considerable savings by incorporating a standard base liner and reduced future maintenance cost.

We are fully capable of producing non-standard configurations and pretty much all else that comes along because this isn't a perfect world and that existing asbestos cement water line or fiber optic cable just won't go away.

Thank you for your support.