

HARCO Deep Sewer Riser



16' Deep sewer



Setting casing shoe & riser



Installing Casing Pipe



Back filling



Compaction



Cutting pipe to lateral elevation



Installing casing cap



Riser bend in place



Lateral piping installed

The HARCO deep sewer riser is unique in that earth and traffic loads are transferred into the bedding material, leaving the sewer main fitting free of external forces. Earth and traffic loads on the riser bend and lateral piping are transferred to the casing cap, thence onto the casing pipe and into the ductile iron shoe where the loads are dissipated into the surrounding bedding material.

The riser pipe literally “floats” within the casing pipe due to the extended depth of the vertical leg of the riser bend. This permits settlement of the structure, if not bedded properly, allowing the riser bend to move downward over the riser pipe while maintaining loading on the casing, leaving the riser pipe free of external loads.

Cost of the riser and installation is relatively small compared to other methods of deep sewer lateral construction. Installation time is only minutes, additional fittings are not required, and other excavation is minimized.

The casing shoe, cap and riser bend are furnished by HARCO Fittings. Casing, riser and laterals are standard pipe furnished by the installer. Riser, lateral, and casing pipe may be sewer, C-900 or IPS size dimensions. HARCO recommends, however, C-900 casing pipe, sewer riser pipe and C-900 lateral pipe laid at least to undisturbed soil. The small additional cost for the C-900 casing and lateral pipe is good insurance.