

## Installation of Large Diameter HDPE Pipes with Significant Biaxial Curvature

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### **ABSTRACT**

The 30 OD bending radius was used for years, according to bibliography, as a safe curve for flooding and sinking operations of HDPE pipelines with the bends referring to the S-curve formation. The Outfall of a Pumping Station in U.A.E., consisting of three OD2000, SDR 26, PE100 lines, was designed with a permanent curve, in plan view, of R80m.

Bending radius in the final condition ( $R80 = 40 \text{ OD}$ ) is well above the safe limit. However, during the installation, the combination of the sinking vertical S-curve and the permanent horizontal bend creates a resultant bend of 29.5 OD.

This paper describes the steps that were followed for the successful installation of the three pipelines with that challenging curve.

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