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Thrust Restraint Design for Ductile Iron Pipe

Project Name

70/71 6R

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Project Data

Type of Fitting ? Vertical

Angle of Bends ? 22.5 °

Diameter of Bends ? 36 in.

Known Length (L) ? 6.5 ft.

Laying Condition ? Type 5

Soil Designation Clay 1

Depth of Cover 6 ft.

Design Pressure ? 150 psi

Safety Factor ? 1.5

Vertical Offset

Unit Frictional Force **1,203** lbs/ft

Unit Bearing Resistance of L2 **3,482** lbs/ft

Required Restrained Length:

	Bare	Polywrapped
L1	79.2 ft	115.9 ft
L2	28.5 ft	33.4 ft

