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Comments: I enjoyed the article and was unaware that Spirit Lake has an engineered drain. The company I work for sells High Density Polyethylene Pipe (HDPE) that is commonly used in slip lining existing stormwater and sewer pipes as well as being used in new installations as Horizontal Directional Drilled (HDD) line.

HDPE is a dimensional ratio pipe, meaning the larger the diameter, the thicker the wall to maintain pressure ratings. New pipe manufacturing techniques have allowed for material that is available all the way up to 135" outside diameter with a 4" wall thickness. Off the shelf normal pipe is up to 63"od with a 3" wall thickness.

HDPE is a Thermoplastic pipe that remains ductile down to -50F with allowable seismic deflection up to 7.5% and axial (elongation) up to 10%. It has a 2% carbon black additive as a UV inhibitor and a 100yr design life at ambient temperature and under 150psi.

If you would like some more info on considering HDPE pipe as a possible solution for Spirit Lake drain, please let me know.