1. Bedding and backfill material shall be Class I meeting ASTM D 2321. See definitions below.

2. To prevent migration of fines and loss of pipe support for installations where significant ground-water flow is anticipated, Class I bedding and backfill must be used and the entire perimeter of the encasement shall be wrapped with an approved geotextile fabric.

3. For installations where the trench bottom is unstable, undercut to a depth as required by the Engineer and replace with a suitable bedding material, placed in 6-inch lifts.

4. All high-density polyethylene (HDPE) pipe used for culvert and storm drain applications shall conform to the requirements of AASHTO M294, Type S, current edition and verified through the Plastic Pipe Institute (PPI) Third Party Certification Program. All HDPE pipe delivered and used shall bear the third party administered PPI seal.

5. Installations which measure over 15 feet of fill from top of pipe to finished grade level are to be approved by City Engineer.

ASTM D 2321 material definitions:
Class I - Angular crushed stone or rock, dense or open graded with little to no fines. (\(\frac{1}{4}\)" to 1.5" in size). Included not limited to sizes 5, 57, 67, 8, 9, 10, & 610.