

Concrete pipe is 48 inch in diameter. PVC has excellent chemical resistance. Since the majority of the line is under roadway, the preference would be to utilize a rigid pipe for this application. Fiberglass pipe offers excellent chemical and corrosion resistance but has seen limited use on high pressure applications with restrained joints. Steel offers less corrosion resistance, but is a viable cost competitive option. Ductile iron offers reasonable corrosion resistance at a competitive price. In addition, contractors in the areas are familiar with the installation of the product. Given the available options and location of the line, it is recommended to use ductile iron as the pipe material.

### **13.0 Conclusion**

To maintain the growth of Pigeon Forge, improvements to the city's sewer treatment plant will be required. (It is anticipated the City will start to exceed the capacity of its existing treatment plant in the summer of 2007.) The design and construction of a new treatment plant is fundamental to the continued development of the City.