Water and Reclaimed Water

Type of Pipe	Diameter of Pipe	Minin	num Horizontal Sej	paration	Minimum Soil Cover	Minimum Vertical Separation		
		to Sanitary Sewer Main, Manhole, or Other Sewer Structure	to Building or Other Above Ground Structure	to Storm Drain or Other Underground Utility		to Sanitary Sewer	to Other Utillity**	
Main	12-inch and Larger	10 feet	15 feet*	6 feet	3.5 feet	1.5 feet	1.5 feet	
Main	6-inch to 10-inch	10 feet	15 feet*	6 feet	3 feet	1.5 feet	1.5 feet	
Service	all sizes	6 feet from a sanitary lateral	5 feet from building, structure, or driveway	5 feet	3 feet	1.5 feet	1.5 feet	

All clearances are as measured outside to outside.

Minimum separation between water service connections along the main is 5 feet.

* For water mains 12-inch and smaller with no more than 5 feet of cover, separation may be reduced to as little as 10 feet with case specific approval from Loudoun Water.

** Where water is above other utility, clearance may be reduced to as little as 0.5 foot, with case specific approval from Loudoun Water. Minimum soil cover on water can be no less than 2 feet. Additional clearance and/or casing may be required where water passes below a large drain or duct. Reduced separation is not permitted where water preexists and other utility is being installed subsequently.

Sanitary Sewer

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Type of Pipe	Diameter of Pipe	Minimum Horizontal Separation					Minimum Vertical Separation		Minimum Soil Cover	Maximum Cover		
		to Water Main	to Building or Other Above Ground Structure		to Non-Potable Well	to Potable Well*	Sewer is Below Utililty	Sewer is Above Utillity				
Trunk Main or Interceptor	16-inch and larger	10 feet	15 feet	6 feet	25 feet	50 feet	2 feet	1.5 feet	6 feet **	20 feet ***		
Local Collection Main	8-inch to 12-inch	10 feet	15 feet	6 feet	25 feet	50 feet	2 feet	1.5 feet	6 feet **	20 feet ***		
Lateral or Bulding Sewer	4-inch and larger	6 feet from a water service	6 feet	6 feet	25 feet	50 feet	2 feet	1.5 feet	2 feet			
Manhole	All	10 ft	15 feet	6 feet	25 feet	50 feet						

All clearances are as measured outside to outside.

Minimum separation between sewer service connections along the main is 5 feet.

- * May be reduced to as little as 35 feet if sewer is pressure pipe, tested in place. This separation is regulated by the Code of Viriginia and Loudoun County Ordinance.
- * May be reduced to as little as 3 feet in isolated instances, with case specific approval from Loudoun Water. See Chapter 5 for parameters. At least 4 vertical feet are needed to accomodate a manhole.
- *** Deeper sewers are discouraged, but are occasionally necessary, based on available routes and topography. Successful designs will be those that follow the natural topography. See Chapter 5 for design parameters. Consult Loudoun Water staff where considering a design requiring sewer deeper than 20 vertical feet.