

GAINESVILLE REGIONAL UTILITIES - UTILITY SEPARATION REQUIREMENTS

HORIZONTAL Separation Distances for PARALLEL Utilities and Perpendicular Clearance From Other Objects

	Electric Overhead-Primary /Secondary Conductor & Poles	Electric Underground-Primary/Secondary cables	GRUCom Overhead	GRUCom Underground	Gas Pipe	Water Main	WW Force Main	WW Gravity Main	Reclaimed Water Main	Trees ¹⁰	Lift Station (Property Line)	Structure	Transformer	Fire hydrant	Water Meter	Streetlight & Streetlight cable	Storm Sewers	Other Underground Utilities
Electric Overhead-Primary /Secondary Conductor & Poles	NA	-	NA	-	-	3	3	10	3	10 ¹¹	10	NESC ⁷	NA	-	-	NESC ⁷	3	3
Electric Underground-Primary/Secondary cables	-	1	-	1	2	3	3	10	3	7.5 ⁹	10	7.5	NA	4 ⁷	3	3	3	3
GRUCom Overhead	NA	-	NA	-	-	3	3	10	3	7.5 ⁹	10	NESC ⁷	NA	-	-	NESC ⁷	3	3
GRUCom Underground	-	1	-	1	2	3	3	10	3	7.5 ⁹	10	10	NA	3	3	None	3	3
Gas Pipe	-	2	-	2	2	3	3	10	3	7.5 ⁹	10	5	None	3	3	3	3	3
Water Main	3	3	3	3	3	2	10	10	4	7.5 ⁹	10	≥ 10	3 ¹²	None	None	3	4	3
WW Force Main	3	3	3	3	3	10	2	10	4	7.5 ⁹	10	≥ 10	3 ¹²	10	10	3	4	3
WW Gravity Main	10	10	10	10	10	10	10	Depth ³	10	10 ⁹	15	≥ 15	15	10	10	10	10	10
Reclaimed Water Main	3	3	3	3	3	4	4	10	2	7.5 ⁹	10	≥ 10	3 ¹²	4	4	3	4	3
Trees ¹⁰	10 ¹¹	7.5 ⁹	7.5 ⁹	7.5 ⁹	7.5 ⁹	7.5 ⁹	7.5 ⁹	10 ⁹	7.5 ⁹	NA	10	NA	10	7.5 ⁹	7.5 ⁹	5	-	7.5 ⁹
Lift Station (Property Line)	10	10	10	10	10	10	10	15	10	10	NA	10	10	10	10	10	10	10
Structure	NESC ⁷	7.5	NESC ⁷	10	5	≥ 10	≥ 10	≥ 15	≥ 10	NA	10	NA	10	10	5	NA	10	10
Transformer	NA	NA	NA	NA	None	3 ¹²	3 ¹²	15	10	10	10	10	NA	10	5	NA	10	NA
Fire hydrant	-	3	-	3	3	None	10	10	4	7.5 ⁹	10	10	10	NA	5	5	4	3
Water Meter	-	3	-	3	3	None	10	10	4	7.5 ⁹	10	5	5	5	1.5	5	4	3
Streetlight & Streetlight cable	NESC ⁷	3	NESC ⁷	None	3	3	3	10	3	5	10	5	NA	5	5	NA	3	-
Storm Sewers	3	3	3	3	3	4	4	10	4	-	10	10	10	3	3	3	NA	3
Other Underground Utilities	3	3	3	3	3	3	3	10	3	7.5 ⁹	10	10	NA	3	3	-	3	1

Notes:

1. All Values are Distances in Feet - Measured Center-to-Center of pipes for typical cases.
2. Large diameter pipes (>10") require additional clearance to achieve separation required by underlying rules based on outside-to-outside dimensions to be determined by GRU Engineering representing each affected utility.
3. Separation from gravity sewer is dependent on the depth of the main, which varies with application
4. NA = Not Applicable
5. Measurements from buildings (structures) and above ground objects (hydrants, transformers, poles, etc.) are from the furthest external protrusion. (roof, wall, porch, foundation, stairway, etc.)
6. Vertical Separation is required for utilities crossing one another (not addressed here)
7. NESC - National Electric Safety Code - The separation from structures is based upon various criteria and must meet the NESC
8. Separations shown between utilities not owned and operated by GRU are for reference only
9. See Tree Separation Details W-10.9, WW-9.2 and 9.7, and RCW 9.5 for detailed tree separation information.
10. See GRU Plant Matrix Guide.
11. 10' for crown height and spread of 40 feet or less, 15' for crown height and spread 40 feet and above.
12. When a potable or reclaimed water main, or a wastewater force main is routed within 10 ft. of an electric transformer, a 20 ft. length of DIP shall be centered on the transformer with mechanical restraint at each end. No fittings or valves shall occur within 10 ft. of the nearest edge of the transformer. A minimum clearance of 3' shall be maintained between the main and the