

UCLG Design and Installation Guidelines for Proposed Utility Ducts and Pedestals within the Road R.O.W.

- Main ducts shall be installed on the backside of a ditch (a minimum 1.0 m horizontal offset from the ditch line) along all County Roads to a minimum depth of 0.75 m, except where otherwise agreed upon by the United Counties of Leeds and Grenville.
- Ducts that need to be placed between a ditch and edge of pavement, or edge of curb due to exceptional circumstances, must be placed at the preferred distance of 2.5 m from the edge of pavement/edge of curb, with an absolute minimum distance of 2.0 m where 2.5 m is determined to not be possible, at a minimum depth of 1.0 m.
- The duct alignment shall be adjusted up to 1.0 m if required to ensure a minimum horizontal offset of 0.5 m from the backside of all guiderails on the ditch side. Minimum depth to be 1.0 m along all roadways where guiderails are present.
- A minimum depth of 1.2 m shall be maintained at all road crossings.
- **A minimum depth of cover required for gas service lines is 1.5 m.**
- A minimum depth of 0.6 m for service wires coming off a County Road.
- Ducts crossing a ditch line shall maintain a minimum depth of 1.0 m below the bottom of the ditch, where soil conditions permit, to allow for future ditch maintenance.
- Where the minimum depth of 1.0 m below the bottom of a ditch is not feasible due to the presence of bedrock, the bedrock shall be broken to allow for installation of the duct below the surface of the bedrock.
- Where underground utility plant intersects with a cross culvert, the preferred depth shall be 1.0 m below the invert of the culvert, with an absolute minimum depth of 0.5 m when a 1.0 m depth is determined to not be possible. In areas where the soil condition does not permit going under the culvert, the alternative method shall be to go around the end of the culvert while maintaining a minimum 1.0 m offset from the end of the culvert. If a 1.0 m offset cannot be achieved, then please contact Public Works Administration at roads@uclg.on.ca to make arrangements for a site visit to meet with the Road Supervisor for the area to confirm an alternative method and placement.
- Pedestals shall not be placed within a sight line triangle of a roadway intersection.
- Pedestals shall not be placed within 2.0 m of a residential or commercial driveway for sight lines.
- Pedestals shall be installed a minimum of 4.0 m from the edge of pavement (6.0 m where possible) on the house side of the ditch to allow for snow clearing operations and minimum 1.0 m from the property line.
- Maintain a minimum horizontal offset of 1.0 m from existing driveway culverts.
- Directional drilling shall be used as the primary installation method at all driveway crossings and in residential areas. For non-residential areas, trenching and plowing would be considered acceptable.
- A minimum vertical clearance of 0.5 m shall be maintained at all sewer and watermain crossings.
- Reinstatement of the road allowance is required to pre-construction conditions or better to the satisfaction of the United Counties of Leeds and Grenville.

Acceptable justification and rationale to be provided to the United Counties of Leeds and Grenville for any deviations or extenuating circumstances to the above minimum standard clearances and requirements.