

Memorandum

To: Jamie Cryan, Business Administrator
Township Committee
Patricia Donahue, Township Clerk
Erik Hastrup, DPW Superintendent

From: Jacqueline Dirmann, P.E., C.M.E., C.F.M., Consulting Engineer

Date: March 7, 2022

Subject: Proposed Curb Policy in the Township of Cranford

Project No.: CDT001-D

The presence of curbing in a roadway improves the pavement life by reducing the amount of water that gets under the pavement. It conveys gutterline flow into the stormwater system and/or points of collection.

History:

Over the past five (5) years, the Township has approached the installation of curbing in conjunction with drainage projects. Drainage projects are defined by the installation of a new underground stormwater system (inlets and pipes) where none exist. Curbing is installed or replaced in areas with flat gutterline slopes to minimize ponding and to direct water to flow towards the new underground stormwater system.

Proposed Township of Cranford Curb Policy:

The Township's Engineering Department will consider installation or replacement of curbing as part of a Capital Improvement Project, in consideration of the following parameters:

- Does the roadway have sufficient gutterline slope to minimize ponding? 0.5% is a minimum slope for a gutter to drain during a rain event.
- Does the roadway have a high groundwater table with sump pump discharges? If high groundwater is suspected, and the gutterline slope is flat (less than 0.5%), icing in the winter could be a concern due to sump pump discharges. For these roadways, the Engineering Department will consider the installation of storm sewers and connection of sump pump discharges, in conjunction with curbing.
- Does a majority of the roadway already have existing curb?

- Is the existing curb height less than 4"?
- Are underground drainage structures proposed?

While curbing is preferred on most roadways, it is not always possible for the following reasons:

- Curbing will not be considered on roadways where the installation of same would result in a significant change to the roadway that includes excavating and lowering the entire roadway, especially if the roadway already has positive gutterline slope of over 0.5%
- Curbing will not be considered on roadways where it would cause a change in the vehicular pattern and parking conditions of the street.
- Utility company projects do not include the installation or replacement of curbing, unless it has been damaged by the utility company. The utility companies are paving the roads at their cost, as part of their projects to upgrade their utilities.

Type of curb:

- Belgian Block curbing will be installed in residential areas and the Special Improvement District, unless the road a State or County road.
- If the predominant type of curb is concrete in a roadway, the Engineering Department will consider installation of concrete curbs to match the existing curbing.

Conclusion:

Prior to finalizing the Capital Improvement Project Plans, the Engineering Department will review the project scope with the Mayor, Business Administrator, DPW Superintendent and Commissioner of Public Works and Engineering. Project Plans are uploaded to the Township's website for the public to view, once finalized and out to bid.