

CONCRETE CURB AND SIDEWALK REPLACEMENT GUIDELINES

Concrete curb and sidewalks must be repaired or replaced if any of the following conditions are present:

1. More than twenty-five percent (25%) of the surface of a sidewalk section or slab is deteriorated.
2. More than twenty-five (25%) of a section of concrete curb has deteriorated.
3. A section or slab of sidewalk having a crack width in excess of one-half inch (1/2") at any one point along a length of one foot or greater. Cracks of a lesser width may be filled with a sealant material.
4. A section or slab of sidewalk out of vertical or horizontal alignment when pedestrian safety is in question.
5. Curbs out of horizontal alignment with adjacent curbs in excess of one-half inch (1/2"). Curbs out of vertical alignment. When pedestrian safety is in question.
6. Evidence of structure failure of curbs or sidewalk, as determined by the Township Engineer or his authorized representative.
7. Any other instance which may create a pedestrian safety hazard, as determined by the Township Engineer or his authorized representative.
8. All curbing and sidewalk must be replaced in compliance with Township specifications.

CONCRETE REPLACEMENT GUIDELINES

Section 503 Sidewalks and curbs.

[Ord. No. 1283, § 5, 5-24-1999; Ord. No. 1467, § 2, 10-10-2006]

1. Sidewalks.

A. Where Required. Sidewalks shall be provided along all streets.

B. Width and Thickness. Sidewalks shall not be less than four (4) [feet] in width on residential streets and five (5) feet in width on collector and arterial streets. A greater width may be required in areas in which apartments or business buildings are located.

C. Sidewalks shall be located between the curb and right-of-way line, four (4) feet or greater distance from the curbline. The grade and paving of the sidewalk shall be continuous across driveways, except in certain cases where heavy traffic volume dictates special treatment.

D. In accordance with Pennsylvania State Act No. 56, curb cut for the handicapped shall be provided at all street crossings and constructed in accordance with section 2803 of the Penn DOT Design Manual.

E. Construction Methods. Sidewalks shall be constructed with a grade not less than one-quarter (1/4) inch to one inch, sloped toward the street. The finished grade between the outside of the sidewalk to the curbline (edge of the cartway) shall never exceed a total vertical elevation change of one foot.

Sidewalks shall be constructed of concrete to a width as indicated for the various classifications of the street.

Concrete used in sidewalk work shall be four thousand (4,000) P.S.I. air-entrained at twenty-eight (28) days with certification of the mix furnished to the Township engineer. Concrete shall be placed in forms that are straight and securely braced. Care shall be taken to control the water content to prevent separation of the aggregates. The concrete shall have a broom finish and the edges shall be finished with an approved edging tool.

All concrete sidewalks shall be constructed on a four-inch crushed stone or gravel base to insure proper drainage. **The concrete shall be placed so that there is a separate joint every five (5) feet and shall be so constructed so that the five-foot sections are completely separated from adjacent sections. One-half-inch premolded expansion joints shall be placed every twenty (20) feet and between all points where the concrete sidewalk abuts a concrete curb.**

All concrete sidewalks shall have a minimum thickness of four (4) inches, except under driveways, where they shall have a minimum thickness of six (6) inches. The concrete apron in the driveway area shall be reinforced with wire six (6) inches by six (6) inches, Number 9 wire (minimum). Two (2) layers of this wire shall be utilized, with a minimum of two-inch spacing between layers. The wire shall be installed so that it is not closer than one-half (1/2) inch from the top or bottom surfaces of the driveway.

Should field conditions warrant, foundation underdrain shall be placed in the stone base and outlet at the nearest drainage structure.

2. Curbs.

A. Concrete curbs shall be installed along each side of every residential, collector or arterial street or road. **Concrete curbs shall be eighteen (18) inches deep, seven (7) inches wide at top and eight (8) inches wide at the base.** The nominal distance from the top of curb to flow line of the gutter shall be eight inches on collector and arterial streets, and eight inches on residential streets. **Curbing shall be built in ten-foot lengths, and an approved expansion joint of one-quarter inch minimum thickness shall be used at each joint.**

All concrete used in the construction of improvements shall be certified to develop a compressive stress of at least four thousand (4,000) P.S.I. at twenty-eight (28) days with certification of the mix furnished to the township engineer.

Concrete shall be placed in forms that are straight and securely braced. Care shall be taken to control the water content to prevent separation of the aggregates. All concrete shall be thoroughly tamped into the forms. After the concrete has set sufficiently, the form shall be removed and the exposed surface shall be rubbed to provide an even finish. All edges shall be finished with an approved edging tool.

To provide for driveways, depressions in the curbing may be constructed and finished during the time of pouring. Depressions should be rolled one and one-half (1 1/2) feet on either side of the driveway and an exposed one and one-half (1 1/2) inch face of curb shall exist between top of curb and the gutter line.