



SIDEWALK REPLACEMENT POLICY

🌿 SIDEWALK REPLACEMENT PROGRAM

The Village of Riverside is fortunate to have a comprehensive network of sidewalks. Over time concrete sidewalks are susceptible to cracking and heaving. As the sidewalks become deteriorated they created safety problems for pedestrians. In order to eliminate these hazardous sections the Public Works department developed The Sidewalk Replacement Program.

Each year during the spring evaluates and selects from resident requests and department inspections areas needing sidewalk repair. Evaluation is based on the following criteria:

- High**
 - Lips 1 1/4 inch or greater (sunk, raised or ramped)
 - Missing whole chunks, large indentations, loose chunks
 - Crushed squares, cracking throughout the entire surface
 - Crack greater than 1/2 inch wide
 - Spalling over 50% (surface chunks missing, rough)

- Med**
 - Lips between 1 1/4 inch and 1/2 inch
 - Crack less than 1/2 inch wide
 - Spalling over 25% of the surface
 - Chipped edges or corners

- Low**
 - Lips less a 1/2 inch
 - Cracking (spiderweb or shrinkage), no separation or displacement
 - Minor spalling

Each year the village replaces about 300 squares, and covers the total cost. Selection is prioritized first by the "Hazard" grade it received during evaluation, and then by the date when the request was received. The actual replacement is done from June through September.

Residents do inquire from time to time about a sidewalk co-op (50/50) program. The village does not offer a co-op program in order to target money to hazardous sections of sidewalk. In the past co-op programs for sidewalks tended to direct money to properties seeking aesthetic improvements, rather than eliminating hazards.

If you know of deteriorated and hazardous sidewalk the Village encourages residents to report the location immediately. Please report this information to our office by calling 708-442-3590.

WIDTH; SLOPE; THICKNESS 8-3-4

All public sidewalks and sidewalks within public parkways or other public areas shall be five feet (5') in width (unless connecting walks are wider, in which event new sidewalks shall be the same width as existing and connecting walks) and the upper surface shall slope at the rate of one-fourth inch (1/4") per foot from the inside to the outside. Sidewalks on private property may be less than five feet (5'), but not less than two and one-half feet (2 1/2') in width, and such sidewalks when extended in the front yard shall extend to and connect onto public sidewalks in the adjacent parkway, if in existence, and if not the private sidewalks shall end at the front lot line of the property in question; provided that the village manager may grant a permit for extending sidewalks to the curb line in front of business or private property whenever, in his judgment, such extension is desirable or necessary. That portion of concrete sidewalk which crosses a driveway shall be a minimum six inches (6") in thickness except that in commercial areas such sidewalk shall be a minimum of seven inches (7") in thickness. All other sidewalks on public land shall be a minimum of five inches (5") in thickness and portions of sidewalk on private property shall be a minimum of four inches (4") in thickness. (Ord. 1757, 7-20-1987; amd. Ord. 2016, 9-21-1992; Ord. 2035, 2-15-1993)

SPECIFICATIONS 8-3-6

Unless otherwise provided in any special tax or special assessment ordinance providing for the construction of sidewalks, all public sidewalks which parallel the street, and carriage walks extending perpendicular from the street edge of the public sidewalk, shall be constructed of portland cement concrete with a broom finish or exposed aggregate concrete finish, approved by the village. In the B2 central business district, public sidewalks and carriage walks may also be constructed with brick or concrete pavers conforming to the requirements set forth in subsection (B) of this section or otherwise approved by the village. Sidewalks located on the dwelling side of the public sidewalk which parallels the street, whether on public or on private property, may be constructed of broom finished concrete, exposed aggregate finished concrete, brick or concrete pavers, or natural stone matching that on private property. All such construction shall conform to the specifications set forth in this section.

(A) Foundation; Subgrade: Concrete sidewalks shall be laid on a minimum of four inches (4") of well compacted granular fill over a firmly compacted earth subgrade free from organic matter or stones more than two inches (2") in any dimension prepared by excavating and grading to the required depth, which after being thoroughly tamped shall be smooth, even and firm. Paver or natural stone sidewalk shall be laid over a well compacted granular fill or over concrete slab laid over a well compacted granular fill over a firmly compacted earth subgrade free from organic material.

(B) Materials:

1. Cement: Cement shall be air entraining portland cement conforming to the American Society For Testing And Materials (hereinafter referred to as "ASTM") standard designation C-150, type I or type III.
2. Sand: Sand shall conform to ASTM C-144.

3. Stone or Gravel: Stone or gravel shall conform to ASTM C-33, size 57; except, that stone used in exposed aggregate concrete shall be pea gravel approved by the village.
4. Welded Wire Fabric Reinforcing: Any welded wire fabric used for reinforcing shall conform to ASTM A-185.
5. Brick and Concrete Units: Brick pavers shall conform to ASTM C-902, class SW. Concrete pavers shall conform to ASTM C-936. Only those units specifically manufactured for sidewalk paving application may be used and the manufacturer's specifications shall be provided. Paver units shall have a minimum thickness of one and one-fourth inches ($1\frac{1}{4}$ ").
6. Stone Paving: Durable natural stone shall be used, having a minimum thickness of one and one-fourth inches ($1\frac{1}{4}$ ").
7. Clean Materials: All materials, when delivered on the job, shall be deposited on a clean surface and shall be kept clean until used. Water shall be clean and free from harmful materials.

(C) Concrete Proportions; Quality; Mixing:

1. Concrete shall consist of a minimum three thousand five hundred (3,500) psi, air entraining portland cement ready mixed concrete conforming to ASTM C-90, utilizing specified materials. Pea gravel coarse aggregate shall be provided in concrete to be used in sidewalks on public land (other than for those portions of sidewalk on public land extending perpendicular from the dwelling or business edge of the public sidewalk running parallel to the street).
2. When ready mixed concrete is used, the cement shall be air entrained, the fine and coarse aggregate shall be of the size and quality herein specified; not less than six (6) sacks of cement shall be used in each cubic yard of mix nor more than six (6) gallons of total water content per sack of cement and the slump shall be not more than three inches (3"). No water shall be added to the mix at the point of delivery and placing.

(D) Construction Provisions:

1. Concrete Placement and Finish:
 - (a) The concrete shall be placed in a layer or course in required thickness for the full width of the walk immediately after mixing. It shall be tamped and struck off with a template and shall be floated with a trowel until the surface has a true contour of the exact grade of the walk. The surface shall be given a light broom finish after the concrete has begun to harden except where exposed aggregate is required by this chapter. Exposed aggregate concrete finish in both residential and business districts shall be given a very light water spray wash after the concrete has begun to harden, to very slightly expose the pea gravel aggregate.
 - (b) The walk shall be cut into separate rectangular blocks not more than five feet (5') in length, the surface edges of each being rounded to a one-fourth inch ($\frac{1}{4}$ ") radius.

- (c) Bituminous expansion joints, three-fourths inch ($\frac{3}{4}$ ") in width, shall be constructed across the walk and through the full depth of the concrete at intervals of fifty feet (50'), and similar joints one-half inch ($\frac{1}{2}$ ") in width shall be made at all points where the new walk abuts on existing concrete walks, driveways, curbs and other structures.
- (d) No walk shall be laid when air temperature is below forty degrees Fahrenheit (40°F) unless all concrete placed in forms shall have a temperature between seventy degrees (70°) and eighty degrees Fahrenheit (80°F) and adequate means shall be provided for maintaining said temperature for three (3) days or for two (2) days if high early strength concrete is used. The walk shall be protected from damage by suitable covering and barricades as directed by the village manager.
- (e) Where a public sidewalk which parallels the street, or a carriage walk that extends perpendicular from the street edge of the public sidewalk, is constructed of broom finished concrete, only approved curing compounds shall be utilized to ensure that the concrete in such sidewalks and carriage walks will have a dull as opposed to a bright white appearance. Approved curing compound agents for said broom finished portland cement sidewalks and carriage walks shall include type 1 compound types and linseed oil emulsion, both as described in section 1022.01 of the Illinois department of transportation's "Standard Specifications For Road And Bridge Construction". Pigmented curing agents are prohibited.

2. Paver or Stone Paving Unit Placement:

- (a) The paver or stone paving units shall be placed on a compacted aggregate base course consisting of a minimum of eight inches (8") of crushed limestone or gravel, or such base course consisting of a four inch (4") thick concrete slab over a minimum of four inches (4") of crushed limestone or gravel with, in the first instance, the addition of a minimum one-half inch ($\frac{1}{2}$ ") sand leveling course. The paving units shall be mechanically tamped to finish grade and the joints sand swept. All sidewalk edges shall be restrained.
- (b) If the paver or stone paving unit is less than two inches (2") in thickness, it shall be set over a minimum four inch (4") thick concrete slab, minimum three thousand five hundred (3,500) psi air entraining portland cement ready mixed concrete conforming to ASTM C-90 over a minimum four inch (4") well compacted granular fill over a firmly compacted earth subgrade free from organic material.

Units shall be set in exact accordance with recommendations of the paving unit manufacturer or stone supplier and shall be set level in full contact with a setting bed of compacted portland cement mortar modified with latex additive formulated for exterior use used in exact accordance with the manufacturer's or supplier's instructions over a slush coat. Joints shall be grouted with a latex portland cement grout.

- (c) If the paver or stone paving unit is two inches (2") or thicker, such units shall be set tightly together in interlocking or herringbone pattern over clean, fine concrete aggregate sand or stone chips, over a firmly compacted, clean aggregate stone or gravel base set on firm subgrade free of organic matter, all in exact accordance with the paver unit manufacturer's or stone supplier's recommendations. Edge restraint of steel or concrete shall be provided. Fine sand or stone chips shall be swept over the surface to fill joints. (Ord. 2860, 11-6-2014)