

Town of Monroe

ORDINANCE No.: 2021 - 3

SHORT TITLE: THE CREATION AND ENACTMENT OF SIDEWALK CONSTRUCTION STANDARDS WITHIN THE TOWN OF MONROE

WHEREAS, the Town of Monroe has the authority to enact ordinances for the performance of the function of the Town of Monroe by virtue of Indiana Code § 36-5-2-9;

WHEREAS, the Town of Monroe desires to establish construction standards for sidewalks constructed within the Town of Monroe;

WHEREAS, the Town of Monroe desires to establish sidewalk construction standards to promote uniform sidewalks throughout the Town of Monroe that functions to promote safety for pedestrian travel;

WHEREAS, the Town of Monroe also desires to establish sidewalk standards to ensure durability and longevity and consistent construction throughout the Town of Monroe, which will promote public safety;

NOW THEREFORE, the Town Board for the Town of Monroe, County of Adams, State of Indiana, hereby ordains and adopts the following ordinance:

Section 1. Purpose. The purpose of this ordinance is to promote uniform sidewalks and construction standards of sidewalks to ensure sidewalks throughout the Town of Monroe are uniform and constructed in similar manner with respect to standards stated in Section 2 below.

SECTION 2. Utility Department Supervisor Authority. The Superintendent of the Town of Monroe's Utility Department ("Utilities Superintendent") shall have authority to administer and enforce this Ordinance consistent with the materials and construction standards described within Section 3 below herein.

Section 3. Sidewalk Construction Materials and Standards

- A. Interior Edge of Sidewalk. Sidewalks shall be located so the interior edge of the sidewalk facing the lot is on the property line or street right-of-way line.
- B. Slope of Exterior Edge. The slope from the exterior edge of the sidewalk to the street curb shall be between 1% minimum and 2% maximum.
- C. Drainage. Drainage, when required, shall be installed and connected with sewers as indicated by the plans.

- D. Concrete and Cement Standards. All concrete shall be one course, 4" (inches) thick, 4000# class "A" concrete. Class "A" concrete, as elsewhere defined, shall be used in all sidewalk construction, and shall conform to the concrete specifications which meets the following conditions:
1. Concrete: Ready mix concrete, conforming to specification ASTM C-94-55 or revisions. The slump shall not exceed five inches.
 2. Cement: Air-entrained Portland cement shall be used with six (6) bags or 564 pounds per cubic yard. The entrained-air cement shall be 4% to 7% of the total proportion.
 3. Aggregates: Both fine and coarse aggregates shall have the approval of the State Testing Laboratory and conform to the proportion as determined by them.
- E. Width and Thickness of Sidewalk. All sidewalks shall be a minimum of 5' (feet) wide and shall be reduced in width to match existing sidewalk width at the property line on each side of the property where sidewalk is either being replaced or installed.
1. Unless otherwise specified, all sidewalks shall be of the width shown on the plans and not less than four (4) inches thick at all points in residential application only.
 2. The thickness at the curb shall be a minimum of 7" thick for a width of not less than 6" in residential setting.
 3. Curb height at the road shall be not more than or less than 5" off the top of the roadway.
 4. If the sidewalk is being placed in a commercial setting, the thickness of the concrete must be a minimum of 12" thick at all points.
 5. The surface shall be graded one-fourth inch to the foot toward the street, and longitudinally as directed or shown on the plans.
- F. Concrete and Cement Sidewalk Forms. Forms may be of wood, plastic, steel, or any material of equal equivalent. They shall be straight, free from warp and of sufficient strength to resist springing during the process of depositing concrete against them. If of wood, they shall be of at least two-inch surfaced plank. The height of all forms shall be equal to the full depth of concrete walk, four inches. All forms shall be thoroughly cleaned and oiled before concrete is placed against them. Curved forms shall be used on curves to conform to the planned radius.
- G. Concrete / Cement Reinforcement. Reinforcement in the form of "rebar" or "wire mesh" shall be installed in all new sidewalks. If using rebar, the following specification applies:
1. Two #4 (1/2") rebar shall be installed length ways of the sidewalks located a minimum of 12-inches to a maximum of 18-inches from each edge of the sidewalk.
 2. Number 4 (1/2") rebar shall be installed perpendicular to the two lengthwise rebar's 6-inches to 12-inches from the end; and another #4 (1/2") rebar shall be installed every 3' (feet) 0" (inches) until the end of the sidewalk.
 - a. Optional: Three (3) rows of #4 (1/2") rebar length-ways of the sidewalk, located 12-inches from each edge and one (1) through the center with a #4 (1/2") rebar located 6-inches to 12-inches from the end and another #4 (1/2") rebar installed every 5-feet on center until the end of the sidewalk.
 - b. All rebar shall overlap by a minimum of 1-foot and be wire tied when more than one piece is required in a run.


- c. All areas of rebar that cross perpendicular shall be wire tied together at intersections.
- H. Existing Sidewalk. All existing sidewalks shall be drilled 6-inches and new rebar shall be installed and wire tied to rebar in new sidewalk location.
- I. Elevated Rebar. All rebar shall be elevated from grade by installing "chairs" or an equivalent device, to ensure the rebar is center in the concrete.
- J. Wire Mesh. If using mesh, the following specifications apply:
1. Mesh may be used in sidewalks for residential installations only. The grade of mesh required is either #10 gauge (roll) mesh or #6 gauge (panel) mesh.
 2. Mesh must be a maximum of 6 inches from each edge of the sidewalk.
 3. Mesh must be a maximum of 6 inches from each end of the sidewalk.
 4. All mesh shall overlap by a minimum of 1-foot.
 5. All existing sidewalks shall be drilled 6-inches and new rebar shall be installed and wire tied to mesh in new sidewalk location.
- K. Compacted Fill Base. A minimum of 2-inches of granular fill shall be placed and compacted before any rebar and/or concrete is installed.
- L. Surface Finish. After the concrete is placed and thoroughly vibrated or puddled, the surface shall be troweled in a rough rosette pattern, producing an even, gritty finish. Final finish by broom is also permissible.
- M. Sealant. Minimum of one (1) coat of cure and sealant shall be applied. No other topping material is permitted unless authorized in writing.
- N. Expansion Joints. Expansion joints and joint filler shall conform to the requirements of such joints in street or alley pavement. Longitudinal expansion joints one-half (1/2) inch thick shall be placed along abutting buildings, concrete yard walks, curbs, walks, and intersecting sidewalks. Transverse expansion joints one-half (1/2) inch thick shall be placed not more than five (5) feet apart between intersections. Joints one-half (1/2) inch thick shall be placed between sidewalk and street curbing. Expansion joints must be placed a minimum of every seventy (70) feet of linear sidewalk.
- O. Joints. One-half (1/2) inch joints shall be made at intervals of five (5) feet as nearly as possible. All joints shall be made only with proper joint-cutting tools or metal division plates. Dummy joints shall be straight and clean cut.
- P. Protection. The contractor shall erect and maintain suitable barriers to protect the walk from traffic. Appropriate warning lights and barricades are required for the entire construction period. Any sections damaged prior to its acceptance shall be replaced by the contractor at his/her own expense.
- Q. Inspection. Call the Utilities Department to have materials checked and for city inspection before pouring concrete.
- R. Condition and Acceptance. Before the construction will be considered completed and the sidewalk ready for acceptance, all equipment, surplus materials and construction debris of every description shall be removed, and the entire area put in a neat and orderly condition, as stated under the preceding provisions on grading. All manholes, catch basins or other structures, disturbed or adjacent thereto, shall be examined and any debris caused by the contractor shall be removed therefrom.

- S. Repair and Replacement of Sidewalks. In the repair or replacement of sidewalks, the following conditions shall apply, in addition to foregoing specifications:
 1. All broken concrete or other old material must be removed and taken away.
 2. If the old base is soft, spongy or otherwise unstable, it shall be removed, and specifications under grading shall be complied with.
 3. No single square of old sidewalk shall be patched; the entire square shall be removed and replaced.
- T. Backfilling. After forms have been removed, the space on each side of the sidewalk shall be filled to the required elevation, firmly compacted, neatly graded, and all adjacent shoulders and slopes finished to the required grade and cross-section. If extra fill material such as bank run gravel is needed, it must have the approval of a licensed civil engineer.
- U. Rejection of Work. Failure to build, construct, or repair a sidewalk in a manner consistent with this Ordinance, shall result in the rejection of the work. Rejection of the work will require removal and replacement at owner/contractor's expense.
- V. Sidewalks Subject to Heavy Truck Traffic. This Ordinance is provided for the purposes of new and replacing of old sidewalks in both residential and commercial areas. Sidewalks that will be located in commercial areas that are subject to heavy semi traffic or other heavy equipment will be addressed on a case-by-case review. The review will include the town utility and the contractor doing the work.

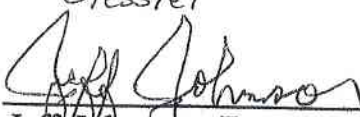
Section 4. Effectiveness. This Ordinance shall become effective upon approval by the Town Board of the Town of Monroe.

HEREBY ADOPTED BY THE TOWN BOARD, TOWN OF MONROE, COUNTY OF ADAMS, STATE OF INDIANA, ON THIS 5th DAY OF AUGUST 2021, BY THE FOLLOWING VOTE: 3 Yeas ___ Nays


TOWN BOARD, TOWN OF MONROE



 Deb Geissler, Town Board Member
 Geissler

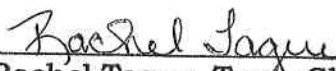


 Jeff Johnson, Town Board Member



 Mike Geels, Town Board Member

ATTESTED TO BY:



 Rachel Tague, Town Clerk-
 Treasurer, Town of Monroe