

## ORDINANCE 72

### AN ORDINANCE REGULATING THE LAYING, CONSTRUCTION AND INSTALLATION OF CONCRETE SIDEWALKS, CURBS AND GUTTERS, AND ESTABLISHING THE WIDTHS OF CONCRETE SIDEWALKS AND BOULEVARDS, AND PROVIDING PENALTIES FOR VIOLATION THEREOF

The Common Council of the Village of Bird Island do ordain as follows:

Section 1: Permit Required: No sidewalk, curb or gutter shall be constructed on any street, avenue or other public property in this municipality without first having obtained a permit from the Village Council. Applications for such permit shall be made on forms to be approved by the Council and shall sufficiently describe the contemplated improvement, the contemplated date of beginning work and the length of time for completion of the same. Provided, that no permit shall be required for any such improvement ordered or to be installed by the municipality.

Section 2: Specifications and Regulations for Construction: All sidewalks, curbs and gutters constructed upon any street, avenue or other public property in this municipality shall be constructed according to plans and specifications as herein provided. Before any construction is begun, the municipality shall establish grades and sidewalk, curb and property lines and assist in determining locations for the same. If such grade or location has not been established before the filing of an application for permit to construct the improvement, the Council shall order the Engineer, or other property officer or employee, to proceed to establish the same, unless the permit is denied for cause, and the expense of such work shall be paid by the municipality.

Section 3: Inspection and Supervision: The Council shall require the inspection of all work done hereunder as deemed necessary. Any work not done according to specifications shall be corrected or removed at the expense of the permit holder and, if still being done when discovered, shall be stopped by the inspector.

Section 4: Size of Sidewalk: All sidewalks laid and constructed in the Village of Bird Island, except as hereinafter provided, shall be four (4) feet in width and shall be constructed with a slope toward the street of one-fourth (1/4) inch to a foot of sidewalk. Such sidewalks shall be four (4) inches in thickness (concrete). Such sidewalks shall be laid and constructed so that the inner edge is one foot outside of the property line. All curbs shall be six (6) inches in thickness and twenty-two (22) inches in depth.

Section 5: Boulevards: Boulevards are hereby declared to be that portion of the street between the street edge of the sidewalk and the outside edge of the curb and they shall be ten (10) feet in width and shall be constructed with a slope toward the street of one-fourth (1/4) inch to a foot.

Section 6: All sidewalks laid and constructed on Main Street between F Street and the Chicago, Milwaukee, St. Paul and Pacific Railway right of way, shall be ten (10) feet in width, at least six (6) inches in thickness (concrete), and shall slope from the property line to the street one-fourth (1/4) inch to a foot of sidewalk, and all sidewalks laid and constructed on H Street and G Street, between Maple Street and Sixth Avenue, shall be eight (8) feet in width and shall be so constructed with a slope from the property line toward the street of one-fourth (1/4) inch to a foot of sidewalk. All such sidewalks shall be at least six (6) inches in thickness.

Section 7: Materials and Process of Construction: The materials used, and the process to be followed in laying, relaying, repairing or constructing concrete sidewalks, gutters or curbs is as follows:

#### MATERIALS

The materials used in the work shall meet the following requirements:

(1) Portland Cement: A Portland Cement passing the standard requirements of the American Society for Testing Materials, shall be used throughout.

(2) Water: Water shall be clean, free from oil, acid, alkali or vegetable matter.

(3) Fine Aggregate: The fine aggregate shall be a natural sand consisting of particles of sound, durable rock, except that when fine and coarse aggregates are produced simultaneously and by the same operation from natural gravel

deposits, the fine aggregate may contain particles of crushed rock of such nature and quantity as are normally produced by the operation of crushing and screening the oversize material of the deposit.

(4) Coarse Aggregate: The coarse aggregate shall be gravel or quarry rock. All coarse aggregate shall be washed and free from organic matter, lumps of clay, or other deleterious substances.

### PROCESS TO BE FOLLOWED

1. (a) All soft and spongy places shall be removed and all depressions filled with suitable material, which shall be thoroughly compacted in layers not exceeding six (6) inches in thickness. The sub-grade shall be thoroughly tamped until it is brought to a firm surface. All debris or objectional material shall be removed from the sidewalk bed. Excavated section shall be of sufficient width to permit the placing of forms and performing the subsequent finishing operations; and filled sections shall be at least two (2) feet wider than the proposed sidewalk.

(b) When the concrete sidewalk is to be constructed over an old path composed of gravel or cinders, the old path shall be entirely loosened, the materials spread for the full width of the sub-grade and compacted as specified.

(c) Whenever the concrete sidewalk is to be laid and constructed over an old existing sidewalk, such old or existing sidewalk shall be broken up completely into small pieces not to exceed five (5) inches in width, length or depth, and such broken pieces may be used in building up the sub-grade as provided in Sub-Section (e) hereunder.

(d) All fills shall be made in a manner satisfactory to the Village Engineer. The use of muck, quicksand, soft clay, spongy or perishable material is prohibited. The top of the fills shall be extended beyond the sidewalk on each side of at least one (1) foot, and the sides have a slope of at least one (1) on one and one-half (1 ½).

(e) Durable material, such as crushed stone, bank-run-gravel or their equivalent, shall be used in the sub-base. On the sub-grade there shall be spread bank-run-gravel, which shall be thoroughly rolled into a smooth surface up to the slab line.

(f) Forms shall have a height equal to the edge dimension of the work prescribed and may be either wood or metal. They shall be straight and free from warp and sufficiently rigid to resist spring or warping during the operation of placing the concrete. If made of wood, they shall be two-inch surfaced lumber, and if made of metal they shall be approved cross-section, having flat surface on the top. For curved sections of sidewalk the forms, if metal, shall be curved to the proper radius and uniformity of curvature required. They shall be securely staked and braced to maintain the required grade and alignment, both on tangents and curves while the concrete is being placed against them and during the subsequent finishing operations. All joints shall be sufficiently tight to prevent leakage of mortar. All forms shall be thoroughly cleaned and oiled before the concrete is placed.

2; Expansion Joints: (a) Expansion joints may be either the preformed or poured type. An expansion joint one-half inch in width shall be placed between the sidewalk and any abutting concrete and masonry work.

(b) Transverse expansion joints one-half inch in width shall, where possible, be so placed as to align with like joints of abutting or adjacent work which is in place. In case there is no abutting work, the transverse expansion joints shall be placed at uniform intervals not to exceed thirty (30) feet. The joints shall be straight, perpendicular to the surface and formed to the full depth of the sidewalk.

3. Contraction Joints: Transverse contraction joints shall be cut to a depth of not less than one-third of the thickness of the sidewalk, shall be not less than one-eighth inch nor more than one-quarter inch in width, shall be perpendicular to the center line and surface of the sidewalk.

4. Batching and Mixing Requirements: All materials shall be measured before placing into a mixer. A bag of cement 94 pounds net shall be considered one cubic foot. A batch mixer of approved type shall be used. The ingredients of the concrete shall be mixed to the specified consistency and the mixing shall continue until the cement is uniformly distributed and the mass is uniform in color and consistency. The mixing period shall be not less than ninety seconds.

5. Composition Requirements: Concrete for sidewalks and curbs shall be composed of one part Portland Cement, two and one-half parts of fine aggregate and three and one-half parts of coarse aggregate and total mixing water not to exceed six gallons per sack of cement.

6. Placing Concrete: No concrete shall be placed until after the foundation and forms have been checked and approved by the Engineer. The subgrade shall be sprinkled before the cement is placed. The concrete shall be deposited slightly in excess of the required depth and shall be thoroughly spaded and compacted to fill all voids. It shall then be struck off with a screening motion and floated smooth. Before the final finishing the surface shall be checked and any variation over one-eighth inch in the surface of any panel shall be corrected.

7. Finishing Concrete: (a) Immediately after the water sheen has disappeared, the surface shall be brushed lightly with a brush after which the panel shall be edged with an approved edging tool, in such a way as to leave a smooth border around each panel.

(b) The forms shall remain in place for a period of not less than twelve hours. After their removal any honey-combed area in the exposed sides of the sidewalk shall be filled with mortar.

8. Curling Concrete: The concrete shall be cured by covering it with wet burlap or impermeable fiberfilled paper for a period of not less than three days.

9. Backfilling: After the removal of the forms, approved earth material shall be placed against the sides of the walk, and the adjacent area finished in a neat and workmanship manner.

Section 8: Any person violating any of the provisions of this Ordinance, shall, upon conviction thereof, be punished by a fine of not exceeding \$100.00, plus costs, or imprisonment in the Village or County Jail for not to exceed ninety days.

Section 9: All Ordinances, or parts of Ordinances, are hereby repealed so far as the same conflict in any way with this Ordinance. This Ordinance shall take effect and be in full force from and after the date of its first publication.

Passed by the Village Council this 10<sup>th</sup> day of October, 1944.

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Mike Sanger, Mayor

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Gustave Steffen, Village Clerk

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