

# **Walk Requirements**

**City of Steubenville - Public Works**

## **SPECIFICATIONS FOR SIDEWALK**

**City of Steubenville**

This Item conform to the requirements of Item 608 of the Construction and Material Specifications of the Ohio Department of Transportation and the following additional requirements:

In lieu of wire mesh, the contractor shall furnish concrete with polypropylene fibers added at the rate of 1.5 pounds per cubic yard conforming to the City of Steubenville General Specification for Fibrous Concrete.

Minimum walk widths:           Central Business District - 7 feet  
  Outside Central Business District - 5 feet

Minimum walk thickness:    4 inches

Expansion joints shall be installed every 20 feet and contraction joints shall be spaced a maximum of 2 times the walk thickness (i.e. 4 inch thick walk shall have joints not grater than 8 feet). The length of a jointed walk section shall not exceed 1.5 times the width. Wide walks will require longitudinal joints.

All contraction joints shall be cut or scored to a depth of one-fourth of the walk thickness. Sawing, if used, shall be performed within 24 hours of the pour.

Block outs (12 inch minimum clear distance all directions) shall be installed around all valve boxes, manholes, poles, etc. encountered in the walk areas. Concrete shall be placed in the blocked out areas at a point in time after the walks have been cast. Expansion joint filler (1/2 inch thick) shall be installed around the blocked out area between the two pours.

Areas which are disturbed adjacent to the curb shall be seeded and mulched in accordance with ODOT Item 659.

**1119.11 SIDEWALKS.**

All construction of sidewalks shall conform to the following minimum requirements:

(a) Installation. In all proposed high density residential and commercial subdivisions, sidewalks shall be installed on all lot frontages.

(1) Sidewalks shall be at least five (5) feet wide when located within commercial subdivisions, and at least four (4) feet wide when located in residential subdivisions. All sidewalks shall be located within the street right-of-way . Where a subdivision is an extension of or adjacent to an existing or recorded subdivision with walks, sidewalks shall align with the existing walks.

(2) Wherever the proposed subdivision is within five hundred (500) feet of a shopping center, school, recreation area or other such facilities, sidewalks leading to such facilities shall be required and shall be at least five (5) feet wide and located within the street right-of-way.

(b) Construction. Sidewalks, where provided, shall be constructed of 3500 psi Cement Concrete. They shall be constructed at least four (4) inches thick, underlain by three (3) inches of compacted crushed stone, gravel or blast furnace slag. Expansion joints shall be provided at least every twenty (20) feet and contraction joints, trowel formed or sawed, every five (5) feet. A grass planting strip may be required between the curb and sidewalk.

## CHAPTER 903 Curbs and Sidewalks

- 903.01 Definitions.**
- 903.02 Duty to repair.**
- 903.03 Permit required; fee.**
- 903.04 Insurance required.**
- 903.05 City to make repairs; recovery of cost.**
- 903.06 Liability.**
- 903.07 Fences.**
- 903.99 Penalty.**

### CROSS REFERENCES

- Construction or repair at owner's expense - see Ohio R.C. 729.01 et seq.
- Notice to construct or repair sidewalks - see Ohio R.C. 729.03 et seq.

### 903.01 DEFINITIONS.

For the purpose of this chapter, certain words and terms used herein shall be interpreted or defined as follows:

- (a) "Building Inspector" means an employee or agent of the City responsible for issuing building permits and inspection.
- (b) "Manager, City" means a professional employed by the City who directs all departments of the City.
- (c) "Pavement" means the improved surface of a street right of way which is available for vehicular traffic, including parking lanes but excluding shoulders or drainage swales.
- (d) "Public ground" means any land which is owned by the City.
- (e) "Public street" means a street which has been ordained or maintained or dedicated and accepted by the City, the County, the State or the Federal Government, and open to public use.
- (f) "Right of way" means the total width of any land reserved or dedicated as a street, alley, or for other public or semi-public purposes, including, but not limited to, the area reserved for pavement, shoulder, sidewalks, tree lawn, drainage and easements.
- (g) "Sidewalk" means a walk which is constructed along the edge of a pavement, shoulder or tree lawn.
- (h) "Street" means a strip of land, including the entire right of way, intended for use as a means of vehicular and pedestrian circulation.
- (i) "Tree lawn" means the grassed or landscaped area between the edge of pavement, shoulder or sidewalk and the street right-of-way line.  
(Ord. 1996-72. Passed 8-27-96.)

### 903.02 DUTY TO REPAIR.

(a) No owner, agent or lessee or other person who may have a vested or contingent interest in any lot or parcel of ground in the City shall fail to repair the sidewalk or curb which abuts on such lot or parcel of ground after having been notified to do so by either the sidewalk inspector or City Manager, and after having been given ten days to commence the required repairs as specified by the sidewalk inspector or City Manager.

(b) For purposes of this section, a sidewalk or curb or any part thereof is deemed unsafe and in need of repair when any one of the following conditions exists herein:

(1) When the sidewalk contains a hole which is one inch or more in depth and four or more square inches in surface area;

(2) When there is a differential settlement in the sidewalk at a crack or joint therein, or an abrupt elevation or depression in a crack or broken sidewalk or at a joint, causing the one portion of the sidewalk to be one inch or more higher or lower than the portion of the sidewalk or curb contiguous thereto;

(3) When, in a brick sidewalk, one-half or more brick is missing, or when the condition of the sidewalk falls within subsections (b)(1) or (2) above;

(4) When a concrete sidewalk is crushed and/or broken to the extent that there are five or more pieces within the average size square of that sidewalk or eight square feet, whichever is smaller;

(5) When the surface of a concrete sidewalk is spalled to present a rough texture of stone or gravel and covers an area of the average size square of that sidewalk or eight square feet, whichever is smaller;

(6) Whenever a concrete curb is cracked or broken to the extent that the curb has portions missing of a width one inch or more in any one section of the curb.

(c) For purposes of the notice to the owner, agent, lessee or other person having a vested or contingent interest in the property in the notice requirement set forth in subsection (a) hereof, the service of notice shall be done by personal service, residence service or by certified mail, return receipt requested at the election of the sidewalk inspector or City Manager. (Ord. 1996-72. Passed 8-27-96.)

### **903.03 PERMIT REQUIRED; FEE.**

No owner, agent, lessee or other person shall make any repair to any curb or sidewalk without first filing with the Building Inspector a written or printed application therefor, setting forth and accurately indicating therein the location, kind and extent of the proposed repair and such application shall be approved by the Building Inspector. The Building Permit fee shall be according to the current fee schedule based on cost of the work involved.

(Ord. 1996-72. Passed 8-27-96.)

### **903.04 INSURANCE REQUIRED.**

Before any permit is issued, the applicant shall deposit with the Building Inspector proof of an insurance policy issued by a company authorized to write insurance in the State, designating the City as the insured therein, by the terms of which the City is saved harmless from any and all claims for bodily injury and death within the limits of one hundred thousand dollars (\$100,000) for each person and three hundred thousand dollars (\$300,000) for each accident and for property damage claims in the amount of ten thousand dollars (\$10,000) for each accident arising or growing out of the street opening or removal of the surface of any sidewalk or opening in any sidewalk or the prosecution of the work for which the permit is obtained or in any manner arising or growing out of the work necessary or incident to the issuance of the permit or that may be occasioned by reason of any opening or anything else done pursuant to the permit. (Ord. 1996-72. Passed 8-27-96.)

### **903.05 CITY TO MAKE REPAIRS; RECOVERY OF COST.**

(a) In the event any owner, agent, lessee or person in control of property fails, neglects or refuses to comply with the notice to repair, and fails to commence repairs within the time given by the sidewalk inspector or City Manager, or in the event that the owner, agent, lessee or person having a vested or contingent interest in property cannot be located so as to be given notice as set forth in Section **903.02**, then the City Manager shall cause such repairs to be made by the City, and cause the cost incurred to be recovered as hereinafter set forth.

(b) Any cost incurred by the City of Steubenville under subsection (a) hereof shall be paid out of the City Treasury on certification of the City Manager. Such cost shall be charged to the owner, agent, lessee or person in control of such property, and if the City is not immediately reimbursed for such cost, the Director of Finance shall certify to the Auditor of Jefferson County, Ohio the cost incurred in making the necessary repairs, including the cost of service or publication of notice, and any reasonable administrative cost, together with a proper description of the premises, and such costs shall become a lien against such premises to be collected as other taxes and returned to the Municipality.

(Ord. 1996-72. Passed 8-27-96.)

**903.06 LIABILITY.**

Any person, upon receiving notice to make necessary repairs as provided within the provisions of this chapter to sidewalks and curbs abutting property in which they have an interest, shall be liable to the City for any cost incurred by the City for damages that may be sustained by any person as a result of the maintenance of sidewalks or curbs in the state of disrepair as set forth herein. (Ord. 1996-72. Passed 8-27-96.)

**903.07 FENCES.**

Fences, walls and masonry pillars shall be prohibited within the City's right-of-way. (Ord. 2003-23. Passed 5-6-03.)

**903.99 PENALTY.**

Whoever violates any provision of this chapter is guilty of a misdemeanor of the first degree. A separate offense shall be deemed committed each day during or on which a violation occurs or continues. (Ord. 1996-72. Passed 8-27-96.)

ITEM 608 WALKS, CURB RAMPS AND STEPS (ODOT SPECIFICATIONS)

- 608.01 Description
- 608.02 Materials
- 608.03 Concrete Walks
- 608.04 Bituminous Walks
- 608.05 Crushed Aggregate Walks
- 608.06 Concrete Steps
- 608.07 Curb Ramps
- 608.08 Method of Measurement
- 608.09 Basis of Payment

~~be by means of hand roller or power roller of a type and weight acceptable to the Engineer.~~

~~608.05 Crushed Aggregate Walks. (a) Excavation shall conform to 608.03 (a).~~

~~(b) Forms shall be of wood or metal of acceptable rigidity and of a depth equal to the depth of the necessary loose material. Forms will be backed with soil to a suitable height that, after being fully compacted, will conform to the height of the completed walk.~~

608.01 Description. This work shall consist of constructing walks, curb ramps and steps of specified materials in reasonably close conformity with lines, grades, and dimensions shown on the plans or established by the Engineer.

608.02 Materials. Materials shall be:  
 Concrete (Class C)..... 499 and 511  
 Bituminous material..... 404.01 and 404.02  
 Base course material ..... 304.01 and 304.02  
 Crushed aggregate meeting grading requirements of . 703.10  
 Expansion joint material..... 705.03  
 Reinforcing steel..... 509.02

608.06 Concrete Steps. (a) Excavation and forms shall conform to 608.03 (a) and (b).

(b) Placing and finishing shall be in accordance with 511 except that treads of steps shall be finished to produce a sandy texture.

(c) Slopes of step treads shall be 1/4 inch per foot toward the next lower step.

(d) Curing shall be in accordance with 511.

(e) Hand railing, when specified, shall be in accordance with pertinent provisions of 517.

608.03 Concrete Walks. (a) Excavation shall be made to the required depth and to a width that will permit the installation and bracing of forms. The subgrade shall be shaped and uniformly compacted to a surface conforming to the plans or as ordered.

(b) Forming. This item may be cast-in-place or slip formed. For cast-in-place construction, forms shall be made of wood or metal and extend for the full depth of the concrete, and be of sufficient strength to resist the pressure of the concrete without springing. If slip formed, the provisions of 609.04 (c) shall apply.

(c) Placing and Finishing. The subgrade shall be moistened thoroughly immediately prior to placing concrete. The concrete shall be deposited in a single layer. It shall be struck off with a template and smoothed with a float to obtain a sandy texture. No plastering will be permitted. All outside edges and joints shall be edged with a 1/4 inch radius edging tool. The surface of the walks shall be divided into equally spaced blocks at approximately 5-foot intervals, to form rectangular blocks. Transverse joints in concrete walks shall be sawed or formed to a depth of not less than one-fourth the thickness of the slab and shall be approximately 1/8-inch wide. Expansion joint filler 1/2 inch thick shall be installed between the walk and any fixed structure, extending the full depth of the walk. The expansion joint filler shall be 1 inch thick where walk is installed against the back of curb which is on a 250-foot or smaller radius, such as at street intersections.

(d) The surface of the walk shall have a transverse slope of 1/4 inch per foot, with the low side adjacent to the roadway.

(e) Concrete shall be cured as required in 451 except that membrane cure shall be applied at a rate of not less than 1 gallon per 200 square feet of surface.

608.07 Curb Ramps. Excavation, forming, placing and finishing, and curing shall conform to 608.03. The final surface texture shall be rougher than adjacent walk and obtained by coarse brooming or other method approved by the Engineer to obtain striations transverse to the ramp slopes.

608.08 Method of Measurement. Walks will be measured by the square foot of finished surface complete in place. Steps will be measured by the linear foot, along the front edge of each tread. Where steps are constructed with integral walls, each tread will be considered to extend from out to out of such walls.

Curb ramps in new concrete walk will be measured as the number of each complete and shall include the cost of any additional materials, grading, forming and finishing not included in the new walk which is measured through the curb ramp area. Curb ramps in existing walk will be measured by the square foot of finished surface complete and shall include the cost of furnishing all materials, grading, forming and finishing of the curb and walk of the curb ramp.

608.09 Basis of Payment. The accepted quantities of specific items of walks and steps will be paid for at the contract prices designated for each of the pay items listed. Excavation, backfill,

base course material, reinforcing steel, hand railing, expansion joint material and other related miscellaneous items will not be paid for separately, but the cost thereof shall be included in the cost of the walks, curb ramps, or steps of which they are a part.

Payment will be made under:

Item	Unit	Description
608	Square foot	Concrete walk
608	Square foot	Bituminous walk
608	Square foot	Aggregate walk
608	Each, Square foot	Curb ramps
608	Linear foot	Concrete steps

~~608.04 Bituminous Walks. (a) Excavation and forms shall conform to 608.03 (a) and (b).~~

~~(b) Base course material shall be placed in layers not exceeding 4 inches in depth and each layer shall be thoroughly compacted.~~

~~(c) Bituminous material shall be placed in one or more courses to provide the required depth when compacted. Compaction shall~~