

PART 2 - SIDEWALKS AND TRAILS

2.01 APPROVALS AND PERMITS

A sidewalk construction permit must be obtained from the Public Works Administration for all sidewalk construction not associated with the construction of a new house or business for which a building permit has been obtained. However, the standards set forth in this document apply to all sidewalk construction.

2.02 TRAFFIC CONTROL

The contractor shall provide lighted barricades to protect pedestrians.

2.03 WIDTH AND LOCATION

- A. Sidewalk width shall be as defined in Table 2.1, except as noted in Section 2.05.

TABLE 2.1

STREET CLASSIFICATION	WIDTH REQUIREMENTS
Local	4'
Collector	4'
Arterial	4' ¹
Commercial	As directed by the City Engineer
Industrial	4' ²
Major Bridges	8'
¹	A 4' walk will be required on one side and an 8' walk on the other. The City Engineer will designate which side the 8' walk will be on.
²	If required.

- B. Sidewalks shall be located within the ROW and 12 inches from the property line, except in areas in which a different offset is required to match existing sidewalks.
- C. No sidewalks shall extend to the street perpendicular to the curb except at intersections and designated mid-block crossings. Such existing sidewalks removed for construction or maintenance activities shall not be replaced.
- D. Sidewalks are generally required on both sides of all streets.

2.04 CROSS SLOPE

- A. All sidewalks shall slope to the street at a rate of $\frac{1}{4}$ inch per foot.
- B. The street edge of the sidewalk shall be located above the curb approximately $\frac{1}{2}$ inch for every foot horizontally from the curb.

2.05 MATCHING EXISTING SIDEWALKS

- A. The width and location of new sidewalks shall be varied to match the width and location of existing sidewalks in the area; however, the sidewalk width shall not be reduced to less than 4 feet.
- B. Sidewalk cross slope may be varied through a gradual transition to match existing adjoining sidewalks. Contact the City Engineer if existing adjoining sidewalks vary significantly from existing standards.

2.06 MATERIAL AND THICKNESS

- A. Sidewalks shall be constructed of Portland cement concrete conforming to the Iowa Department of Transportation Class C mix. Maximum slump shall be 3 inches.
- B. Sidewalks 4 to 6 feet wide shall have a minimum thickness of 4 inches. Sidewalks greater than 6 feet wide shall have a minimum thickness of 5 inches. Sidewalks crossing driveways shall be a minimum of 6 inches thick.

2.07 JOINTS AND FINISH

- A. Sidewalks shall have a uniform texture with a broom finish.
- B. Tooled joints are not permitted.
- C. Sawn joints are required for all widths of sidewalks. The joint depth shall be $\frac{1}{3}$ the sidewalk thickness.
- D. Longitudinal sidewalk joints shall be delineated through driveways.
- E. Sidewalk joints shall be spaced to form square panels.
- F. Preformed expansion joints, $\frac{1}{2}$ inch in width, shall be installed at approximately 100-foot intervals or at property lines in new residential or commercial construction. Preformed expansion joints, $\frac{1}{2}$ inch in width, shall be installed adjacent to all curb ramps. See Figure 2.1.
- G. Stamped imprints indicating the contractor and date of construction are permissible. The size of the imprint shall be limited to less than 4 inches x 6 inches and the depth to less than $\frac{1}{4}$ inch.

- H. Apply curing compound immediately following finishing operations or cure with moist burlap for not less than 24 hours.

2.08 CURB RAMPS

- A. Sidewalks shall provide a curb ramp for accommodation of the disabled at all intersections and designated crossings.
- B. Curb ramps shall be located in line with the public sidewalk as shown in Figure 2.1.
- C. Curb ramps shall be at least 48 inches wide between the curbs and should be sloped at not greater than 1 inch of rise per 12 inches linear distance (8.3%). A slope no greater than 1 inch of rise per 8 inches linear distance (12.5%) may be used where necessary. The cross slope of curb ramps shall not exceed 2%.
- D. The current standards of the Americans with Disabilities Act (ADA) will govern in all cases.

2.09 TRAILS

- A. In general, trails shall be designed to the same standard as sidewalks.
- B. Trails designed for public use shall be a minimum of 8 feet wide.
- C. To the extent practicable, trails shall comply with the provisions of the Americans with Disabilities Act (ADA).
- D. The trail surface shall be of one of the designs shown in Figure 2.2. Surfaces other than Portland cement concrete will require approval of the City Engineer. Where water is expected to overtop the trail, only non-erodible surfaces shall be used.
- E. Trails designed for the use of bicycles shall be designed to the standards of the American Association of State Highway and Transportation Officials' Guide for the Development of Bicycle Facilities.
- F. Trails that also serve as vehicular access for utility maintenance activities shall be constructed of Portland cement concrete and have appropriately designed radiuses.