

Town of Culver

Street & Sidewalk Specifications

(Revised April 2008)

The details and specifications included herein supersede all previous details and specifications included in other documents. A permit is required prior to construction and inspections are required before placing concrete and after placing concrete to ensure the specifications have been followed.

All new streets, ramps, sidewalks and curbs shall meet the minimum standards of the Americans with Disabilities Act (ADA). The Town of Culver Building Commissioner or Street Superintendent must approve any variation from this standard prior to the start of construction. A copy of the *ADA Standards for Accessible Design* can be found at the Town Hall or online at <http://www.usdoj.gov/crt/ada/adastd94.pdf> If the (ADA) standards are not met the sidewalk/street construction must be replaced.

Sidewalks

Sidewalks shall be constructed per the attached details. Concrete shall meet the minimum specifications listed herein. The Town of Culver Building Commissioner or Street Superintendent must approve any variation from this standard prior to the start of construction. See TOC Detail Sheet 1, 2 & 3.

Thickness

Sidewalks with no vehicular traffic shall be 4" thick with welded wire fabric or 1.5#/CY synthetic fiber mesh additive for temperature and shrinkage crack control. Sidewalks with vehicular traffic or mechanical snow removal shall be a minimum of 6" thick. A minimum 4" compacted granular aggregate sub-base shall be installed before placing concrete.

Thickness at Driveways

All driveways intersecting sidewalks shall be a minimum of 6" thick for automobile only usage and a minimum of 8" thick for truck traffic and sanitation vehicles.

Adjacent to walls and Buildings

When sidewalks are adjacent to walls or buildings, details shall be included for expansion joints and control joints for areas with potential differential settling. Building drainage shall not be allowed to flow across adjacent sidewalks.

Slope

Maximum Sidewalk or ramp slope, NO SLOPE SHALL EXCEED 1:12 The maximum slope may be exceeded for a maximum distance of 30 feet.

All walks shall have a minimum 1/8" cross slope for drainage.

Scoring and Jointing

Areas with the potential for differential settling should be identified and details provided for expansion joints and control joints.

Intersections

Sidewalk intersections shall include details for expansion joints and pinning. Intersections of old and new concrete shall be pinned with 8" #4 rebar (minimum) at 18" o/c (minimum).

Finishing

Sidewalks shall have a medium broom finish. Alternate finishes such as epoxy coatings, stamping, etc. must be approved by the Building Commissioner or Street Superintendent prior to the start of construction.

Curb Access Ramps

Curb Access Ramps shall meet ADA standards. Please reference Section 4.8 of the *ADA Standards for Accessible Design*.

Curbs

Curbs shall be constructed per the attached details. Concrete shall meet the minimum specifications listed herein. The Town of Culver Building Commissioner or Street Superintendent must approve any variation from this standard prior to the start of construction. See TOC Street Detail Sheet 4.

New Curbs

New Curbs shall be installed as straight back curbs, the Building Commissioner or Street Superintendent prior to the start of construction may authorize new curbs as an integral curb and gutter section.

Replacement Curbs

Replacement curbs shall be straight back curbs, the Building Commissioner or Street Superintendent prior to the start of construction may authorize replacement curbs as an integral curb and gutter section. If this is not possible, the Building Commissioner or Street Superintendent must approve alternative methods prior to the start of construction.

Connections

Where a new curb connects to an existing curb, the new curb and existing curb shall be pinned together to prevent differential settling with three 8" #4 rebar (minimum).

Concrete Specification

1. Concrete shall have a design compressive strength of 4000 psi at 28 days.
2. Concrete shall be a limestone mix.
3. Concrete shall be 4% - 8% air entrained.
4. Concrete shall be reinforced. All steel reinforcing shall be embedded a minimum of 2" from all concrete surfaces. (See details for reinforcement requirements and options)
5. Concrete Testing may be required. Verify requirements prior to start of construction with the Building Commissioner or Street Superintendent. Contractor's shall supply copies of the ready-mix supplier's delivery tickets with the mix design specifications, date and address noted by the supplier thereon as verification. The Building Commissioner or Street Superintendent may require testing completed by an independent testing laboratory for compression, air content, reinforcing or other requirements at their discretion.
6. Color Additives may not be used without the prior approval of the Building Commissioner or Street Superintendent.
7. Concrete Stamping or other decorative textures or patterns may not be used without the prior approval of the Building Commissioner or Street Superintendent.
8. Concrete shall be sealed with Sonosil, the Building Commissioner or Street Superintendent must approve alternative products prior to the start of construction.