

Typical Sidewalk

4" H-608.0101 Concrete
4" H-304.12 Crusher Run

Typical Driveway Sidewalk Shall Be Reinforced With W4XW4 Wire Mesh Fabric At 6" O.C. Embedded At Mid Depth of Slab.

6" Concrete H-608.0101
4" H-304.12 Crusher Run Compacted 95%

Typical Street

1 1/2" HMA Top Course H-403.178902
2" Binder Course H-403.138902
3" HMA Base Course H-403.118902
12" Crushed Subbase H-304.12 Compacted 98%

Streets Vary In Pavement Thickness. Match all Streets With Varing Thickness With 1 1/2" HMA Top Course, and HMA Binder Course As Needed for Non Typical Street.

§ 140-17 Appendix A: Specifications for Sidewalk Construction.

- A. In the following specifications, the word "sidewalk" shall be understood to cover both sidewalk and driveway unless otherwise stated. The references at the end of these specifications shall apply to all sidewalk work within the village.
- B. Existing sidewalks should be replaced when they show visible signs of deterioration and present a hazard to pedestrian traffic.
- C. The house side of the sidewalk shall be at the outer limit of the public right-of-way. Sidewalks shall be constructed of untinted portland cement concrete. Width of sidewalks shall conform to adjacent walks unless major reconstruction of the walks in the area is planned; but in no case shall any sidewalk be less than four feet wide. Sidewalks shall have a minimum slab thickness of four inches, based upon standard form lumber. Driveways shall have a minimum slab thickness of six inches and shall contain an integral mat of reinforcing wire fabric as noted below. Driveways shall be no less than 12 feet wide, unless otherwise ordered in writing and, unless already outlined, shall be marked by a letter D at least 3/4 of an inch high on at least two corners bounding the limits of the drive. Both walks and drives shall be placed on a compacted foundation of clean crushed rock or gravel, New York State Department of Transportation Specification Table 703-4, Size Designation 1, of six and eight inches depth, respectively, unless otherwise permitted in writing.
Editor's Note: Amended at time of adoption of Code (see Ch. 1, General Provisions, Art. I).
- D. The area for a sidewalk shall be cleaned, grubbed and brought to suitable subgrade by excavation or fill as required and firmly compacted. The completed subgrade shall extend six inches in excavation and 12 inches in embankment beyond the side lines of the completed walk. The completed subgrade shall contain no roots, sod, loose or uncompacted earth, mud, organic materials or rubbish. All surplus and waste material must be removed from the work site by the close of work on the same day generated. Additional material required in embankment must be obtained from an approved source. When the sidewalk is laid in cut, the earth between the sidewalk and roadway must be graded to give a one-fourth-inch per foot pitch from the sidewalk to the curbline.
- E. At all times during the course of the work, the site shall be made safe to the public. Barricades and warning lights shall be supplied by the contractor or owner and safe rerouting of foot traffic shall be incorporated into the job. The work site shall be lighted at night by the contractor or owner.
- F. Forms shall be installed to provide an acceptable transition in elevation from existing adjacent walks to the new walk. In exceptional cases only, and as approved in advance, shall the slope of any walk exceed one in 18. Forms shall be constructed of lumber of two inches nominal thickness or of steel or other acceptable material of equal rigidity or strength. Flexible forming may be used on curves. Forms shall be rigidly staked and braced with edges conforming to the required transverse pitch of 1/4 inch per foot and to the established line and grade. Forms shall be installed to a line and grade in such a manner that no water shall be trapped or impounded by the construction of the walk. Drainage shall

be toward the street, if possible. All forms shall be checked and approved by the Village Engineer or his agent prior to the placement of any concrete; concrete placed in unapproved formwork shall not receive any reimbursement from the village. All forms shall be properly cleaned and prepared before any material is deposited against them. Forms and subgrade shall be thoroughly dampened by sprinkling with water prior to concrete placement. If the ambient temperature is expected to exceed 85° F. at the time of placement, the forms and subgrade shall be thoroughly soaked by flooding on the previous evening and again sprinkled just prior to placing the concrete. No concrete shall be placed on standing water, however; nor shall concrete be placed if rain is expected during the placement or finishing operations unless steps are taken to mitigate possible damage to the concrete.

- G. In every driveway, and where reinforcement is to be incorporated into the sidewalk, it shall be steel wire fabric, New York State Department of Transportation Specification 709-02, embedded at mid-depth in the slab and consisting of No. 6 gauge wire at six-inch centers transversely and longitudinally. In those locations where the wire fabric passes through a contraction or construction joint, every other wire shall be severed. All fabric shall be lapped at least six inches and shall run the full length of the walk and to within three inches of the edges, but no closer to the edge than one inch.
- H. Where the new slab abuts an existing walk, drive, building, curb or other rigid object, an expansion or filler joint shall be installed, 1/2 inch wide and to the full depth of the slab, extending from within 1/8 inch of the surface to the subgrade. Subject to approval by the Village Engineer or his agent, expansion joint materials may be:
- (1) Premoulded bituminous joint filler, New York State Department of Transportation Specification 705-07, laid in one piece for as long as the full length of the new slab and suitably sealed by an approved joint sealer, New York State Department of Transportation Specification 702-3401.
 - (2) Polyvinyl chloride extruded shape, New York State Department of Transportation Specification 705-11, installed as above.
 - (3) Performed elastic joint sealer, New York State Department of Transportation Specification 705-12, installed as above.
- I. Concrete shall comply with the material requirements and composition specified for Class E concrete in Section 501-2 of the New York State Department of Transportation Specifications, proportioned in accordance with aggregate weights specified for Class E concrete in Table 501-3, but with 7% air entrainment and the water content adjusted accordingly in order to achieve a twenty-eight-day compressive strength of 4,000 pounds per square inch. Water content shall be controlled so that when placed, the slump of the concrete shall not exceed three inches. Concrete shall be placed in the forms as close as possible to its final position in order to avoid segregation and it shall be spaded against the forms. Concrete shall not be moved by use of vibrators. The general construction details for manufacturing, transporting, placing and curing concrete shall meet the requirements of Sections 501 and 502 of the New York State Department of Transportation Specifications. Cement shall be portland cement, Type 1. Fine aggregate shall meet the requirements of

New York State Department of Transportation Specification 703-07, Concrete Sand. Coarse aggregate shall be either crushed stone or crushed gravel meeting the requirements of New York State Department of Transportation 703-02, except that the gradation requirement for the mixture shall be as indicated in Table 501-2, Type CA-1, composed in the size designations specified in Table 703-4 for Size Designation 1 stone or gravel.

- J. Concrete shall be floated with a metal float until the surface has a true contour. The surface shall be neither tamped nor jitterbugged and shall be worked only once to avoid bringing an excessive amount of water and fines to the surface. Dry cement or cement-sand mixture shall not be spread on a finished surface to absorb water.
- K. Edging shall be commenced as soon as water begins to leave the surface. The surface edge shall be rounded to a one-fourth-inch radius.
- L. When edging has been completed, control joints shall be cut. The walk shall be cut into regular slabs which shall have no dimension greater than the width of the slab and in no case shall any dimension exceed 20 feet. Each contraction (control or dummy) joint shall be cut vertically with an approved concrete saw to a depth of at least one inch and shall be 1/8 inch wide. The joint shall be cut when a slight ravelling appears at the cut, normally within four to 12 hours after placement; early enough to control cracking stresses caused by shrinkage, but late enough to prevent ravelling and surface damage. Division plates shall not be used.
- M. Upon completion of jointing, finish the concrete by working once with a steel trowel and apply a broom finish.
- N. Every section of sidewalk shall be completed on the day in which it was started. If the entire walkway is not completed in one day, a construction (cold) joint shall be employed in the same location as a contraction joint and shall terminate the day's pour.
- O. Sections, when complete, shall be protected by a suitable covering raised slightly above the surface and kept moist by sprinkling for three successive days. All walks must be protected from traffic by suitable barricades and bridges; they shall not be open to traffic until the end of the curing period. In extremely hot weather (ambient temperature in excess of 85° F.), the surface of the concrete shall be kept wet by standing or sprayed water for 12 hours once the surface has become hard enough to prevent marring. The concrete shall be shaded from the direct rays of the sun and screened from drying winds. In extremely hot weather, the curing process shall continue for seven days and the surface shall be kept constantly wet, avoiding wet and dry cycles.
- P. In extremely cold weather, the concrete must not be allowed to freeze. After the first frost in this area and until the temperature falls below 40° F. for more than one twenty-four-hour period, concrete must be protected from freezing for at least 48 hours after it has been placed. The fresh concrete itself must be maintained at a temperature of 55° F. or greater after placing and for the first 72 hours thereafter. To ensure this post-placement temperature, the minimum concrete temperature, as mixed, must be 60° F. when the ambient temperature is above 30° F. Concrete shall not be placed when the ambient

temperature is expected to drop below 30° F.

- Q. The contractor shall provide topsoil conforming to Section 713-01 of the New York State Department of Transportation Specifications, applied to areas adjacent to the sidewalk where his operations have disturbed or destroyed the existing grass or other ground cover in accordance with Section 613 of the New York State Department of Transportation Specifications. After the topsoil has been applied, the contractor shall apply grass seed of the property owner's choice which conforms to Section 713-04 of the New York State Department of Transportation Specifications.
- R. All property owners desiring to build walks shall first give notice of that fact to the Village Clerk in order that the Village Board of Trustees and the Village Engineer or his agent may make such recommendations as may seem wise in advance of commencement of the work. Every property owner desirous of receiving the village rebate on new sidewalk construction must apply for it on the forms available at the Village Office. These forms are accompanied by an affidavit to be submitted by the builder attesting that the sidewalk has been constructed in accordance with the above specifications. No rebate shall be paid if there is no affidavit.
- S. These specifications shall take effect immediately upon publication at the Village Office. Copies may be obtained from the Village Clerk.
- T. Referenced specifications: New York State Department of Transportation Specifications, Sections 501 and 502, 608, 613, 701-01, 703-02, 703-07, 705-07, 705-11, 705-12, 709-02, 712-01, 713-01 and 713-