

02400 - CURB & GUTTER, DRIVEWAYS & SIDEWALKS

(Last Revised X/XX/XX)

This division contains 17 pages!

SELECTED LINKS TO SECTIONS WITHIN THIS SPECIFICATION

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Reinforcement

Testing

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Welded Wire Fabric

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions apply to this specification.
- B. Division 02200 – EARTHWORK
- C. Division 02275 – TRENCHING, BACKFILLING, AND COMPACTION OF UTILITIES.
- D. Division 02920 – SEEDING, SODDING, AND GROUNDCOVER

1.2 SUMMARY

This section includes concrete curbs, combination curb and gutters, ramps, sidewalks, driveways, flumes, valley gutters, median strips, islands, retaining walls, steps, and headwalls on municipal roadways and its appurtenances.

1.3 DEFINITIONS

A. General:

For the purposes of this specification, the following definitions refer to the streets and roadway system that comes under the authority of the Town of Bedford Falls, New York as specified within this section and other sections of this manual.

- 1) **Aggregate Base Course:** A layer of graded aggregate materials of a specified thickness placed between the subgrade and the concrete structure or appurtenance.
- 2) **Public Road System:** Roadway, streets, and their appurtenances required for the conveyance of the motoring public that are maintained by either the Town of Bedford Falls or the XXXX Department of Transportation.

- 3) **Subgrade:** The top surface of a sidewalk, curb and gutter or driveway shaped to conform to the typical section on which the concrete structure or appurtenance is constructed.
- 4) **Suitable Subgrade:** A subgrade that consists of a material type and density that is approved by the Town Engineer for placement of a subsequent concrete structure or appurtenance.

B. The following are industry abbreviations for various materials and items:

- 1) **C&G:** Concrete Curb and Gutter
- 2) **D/W** Driveway
- 3) **S/W** Sidewalk
- 4) **WWF:** Welded Wire Fabric

1.4 SUBMITTALS

A. Submit product data, reports, and/or shop drawings, as applicable, for the following:

- 1) Air Entrainment
- 2) Concrete cylinder break tests
- 3) Concrete admixtures
- 4) Joint Sealants and expansion joint material
- 5) Job mix formula
- 6) Other embedded items

1.5 QUALITY ASSURANCE

A. Materials and operations shall comply with the of all applicable Codes and Standards.

1.6 STANDARD ABBREVIATIONS

ACI	American Concrete Institute
ANSI	American National Standards Institute
ASCE	American Society of Civil Engineers
AASHTO	American Association of State Highway Transportation Officials.
ASTM	American Society for Testing and Materials
CRSI	Concrete Reinforcing Steel Institute
FS	Federal Specifications
MSDS	Material Safety Data Sheets

PART 2 – PRODUCTS

2.1 MISCELLANEOUS

2.2.1 PORTLAND CEMENT CONCRETE

Ready mixed concrete shall comply with ASTM C94, *Standard Specification for Ready-Mixed Concrete*. Cement concrete shall meet the requirements of Section 1000, *Portland Cement Concrete Production and Delivery* and Section 1024, *Materials for Portland Cement Concrete* of the XXDOT Standard Specifications for Roads and Structures. Concrete strength shall be as specified on standard details and drawings. Unless otherwise specified, all concrete shall be Class A (3000 psi), minimum.

All exposed concrete shall be air entrained with an air content conforming to the requirements of Section 1004-4B, *Air Entrainment* of the XXDOT *Standard Specifications for Roads and Structures*. Air entrained admixtures for use in Portland cement concrete shall meet the requirements of AASHTO designation M-154, *Air-Entraining Admixtures for Concrete*. Only those admixtures shall be used which have been approved by the Town Engineer.

If approved by the Town Engineer, calcium chloride may be used as an admixture subject to the requirements of Section 1000-4H, *Use of Calcium Chloride* of the XXDOT *Standard Specifications for Roads and Structures*. Calcium chloride shall conform to AASHTO M144, Calcium Chloride, type 2. Do not use calcium chloride in reinforced concrete construction.

Concrete admixtures, when specified, shall conform to Section 1024-3, *Admixtures* of XXDOT *Standard Specifications for Roads and Structures*.

Concrete Classes (XXDOT) to Design Compressive Strength at 28 days (f'c):

Class	Minimum Compressive Strength at 28 days (psi)
Class AA	4,500
Class A	3,000
Class B	2,500

2.2.2 HANDRAILS

Handrails shall conform to the applicable sections and requirements of Section 460, *Bridge Railing* of the XXDOT *Standard Specifications for Roads and Structures*, latest revision.

2.2.3 JOINT FILLER

A. ASPHALT EXPANSION JOINT FILLER