

# **2021**

## **Summary of Major Revisions**

### **to the**

### **City of Fargo**

### **Standard Specifications**

### **for**

### **Construction**

#### **SECTION 2100 – CONCRETE PAVING AND CURBS & GUTTERS**

##### **Part 1 – Description of Work**

- Added language referencing Section 2070 Aggregate Bases

##### **Part 2 - Materials**

- 2.1 – Updated Cementitious section.
- 2.2 – Updated Aggregates section.
- 2.3 – Added ASTM requirements.
- 2.4 – Updated requirements. Moved fly ash section to 2.1.
- All following sections and subsections were renumbered accordingly. Various sections were restructured and reordered for consistency.
- 2.5 – Added Proportion Properties Table. Added paragraph about adjusting for air loss from consolidation. Added Coarseness and Workability table.
- 2.6 – Updated Fast-Track Concrete section.
- 2.8 – Updated Mixing section.
- 2.9 – Added Field Adjustments to Mixed Concrete section.
- 2.11 – Updated Reinforcement Steel, Dowel Bars, and Tie Bars section.

- 2.12 – Revised Joint Material requirements. All expansion/isolation joint material shall be made of rubber material and conform to the requirements of ASTM D 1752. The joint material shall be Reflex® Rubber Expansion or approved equal.
- 2.12.4 – Added Backer Rod requirements.
- 2.13 – Updated Curing and Sealing Compound requirements.
- 2.14 – Updated submittal requirements.

### Part 3 - Construction

- 3.1 – Added language for Aggregate Base requirements.
- All following sections and subsections were renumbered accordingly. Various sections were restructured and reordered for consistency.
- 3.2 – Added Contractor Flatwork Certification section and requirements.
- 3.3 – Revised language to clarify reinforcing steel requirements. Moved dowel bar & tie bar alignment and placement language to other related sections.
- 3.4 – Language that has been used in plan section 210, special instructions to bidders, was incorporated. Language was added to reflect additional requirements.
- 3.4.1 – Added language to clarify cold weather pouring requirements.
- 3.4.2 – Added Protecting Concrete from Rain Damage section.
- 3.5.1 – Added language clarifying equipment and string line requirements.
- 3.5.2 – Added AMG (Stringless paving) requirements for slip-form paving. Added requirements for drag material attached to slip-form paver. Added slip-form vibrator requirements. Added AMG (Stringless paving) requirements for slip-form curbing.
- 3.6 – Added language clarifying fixed form equipment and construction requirements.
- 3.7 – Added language clarifying auxiliary finishing equipment requirements.
- 3.8 – Added language clarifying new requirements throughout the Joints and Sawing section.
- 3.8.1 – The use of marking joints by spray paint will not be allowed.
- 3.8.2 – Added dowel bars placement tolerances.
- 3.8.3 – Added tie-bar tolerances.
- 3.8.6 – Added joint raveling language and deduct adjustment table.
- 3.10 – Added new texture testing requirements.
- 3.12 – Joints shall be sealed before opening to construction and public traffic and no more than 10 days after placement of concrete. Added water jetting requirements.
- 3.12.1 – Added new sealant height requirements.
- 3.13 – Added language about keeping new pavements clean during construction activities and an hourly charge for failing to keep pavement clean.
- 3.15 – Updated and added language for clarifying new requirements throughout the Pavement Surface Smoothness section.
- 3.16 – Added Pavement Surface Pop Out Tolerance section.
- 3.21 – Added language clarifying testing requirements.

#### Drawings:

- In general, all details were updated for consistency.
- 5.1 – Revised table:
  - Corrected pavement widths.
  - Revised slab and gravel thicknesses.
  - Revised panel heights and widths.
- 5.1 – Removed keyway in detail. Updated drawing text.
- 5.2 – Revised aggregate base depth to 4". Added 7" commercial thickness. Updated minor text.
- 5.3 – Revised drawing to show typical reinforcement and joint placement. Updated text. Added curb and gutter shall be poured separate from adjacent concrete pavement.
- 5.4 thru 5.17 drawings were renumbered accordingly.
- 5.4 – Removed keyway from detail. Updated minor text.
- 5.5 – Updated doweled joint table. Revised ASTM requirements.
- 5.6 – Removed keyway from detail. Revised drawing and minor text.
- 5.7 – Added new longitudinal requirements for joint sealant. Revised sealant height requirements. Revised notes and minor text.
- 5.8 – Additional reinforcement added around casting. Added 13" min. set in-place height. Updated minor text.
- 5.9 – Changed drawing name to Reinforcing Steel. Updated drawing and text.
- 5.11 – Removed keyway from detail. Added 250' max. spacing for expansion joints. Removed 2" CL-5 cushion. Added 2" paving lip. Revised dimensions, notes and text.
- 5.12 - Removed keyway from detail. Added 250' max. spacing for expansion joints. Removed 2" CL-5 cushion. Added 2" paving lip. Revised dimensions, notes and text.
- 5.13 – Added joint w/sealant and joint w/o sealant details. Revised text and notes.
- 5.14 – Updated drawings and text.
- 5.15 – Updated drawings and text.
- 5.16 – Revised note #2, the 10" was changed to 10°. Updated minor text.
- 5.17 – Added Railroad Expansion detail.

#### Deleted Drawings:

- 5.4 Expansion Joint detail
- 5.9 Typical Manhole Isolation detail