

IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures

Date April 6, 2005

Attention All Employees

Ref No. 521.1

From Gary Novey

Office Bridges and Structures

Subject: Method's Memo No. 118 (Longitudinal Grooving of Bridge Decks)

Effective immediately the following bridge General Note should be added to all bridge plans that do not already have longitudinal grooving shown. The note shall be provided along with the bid item "Longitudinal Grooving in Concrete". Projects that are using high performance concrete or increased durability concrete should already have included a similar note.

E202

TRANSVERSE GROOVING OR TINING IN THE PLASTIC CONCRETE OF THE BRIDGE DECK OR BRIDGE FLOOR OVERLAY WILL NOT BE ALLOWED. LONGITUDINAL GROOVES SHALL BE CUT INTO THE HARDENED CONCRETE SURFACES USING A MECHANICAL CUTTING DEVICE. THIS SURFACE TREATMENT SHALL BE DONE AFTER ANY SURFACE GRINDING IS DONE AND BEFORE TRAFFIC IS ALLOWED ON THE SURFACE. EACH GROOVE SHALL BE 1/8 INCH \pm 1/64 INCH IN WIDTH, 1/8 INCH + 1/32 INCH OR - 1/16 INCH IN DEPTH, AND UNIFORMLY SPACED AT 3/4 INCH INTERVALS. LONGITUDINAL GROOVING WILL NOT BE REQUIRED IN THE AREA APPROXIMATELY 2 FEET ADJACENT TO THE CURBS AND SHALL TERMINATE APPROXIMATELY 6 INCHES FROM ANY ARMORED JOINTS.

THE LONGITUDINAL GROOVING IS TO BE BID ON A SQUARE YARD BASIS. THE NUMBER OF SQUARE YARDS OF LONGITUDINAL GROOVING WILL BE PAID FOR AT THE CONTRACT PRICE PER SQUARE YARD BASED ON PLAN QUANTITIES. PRICE BID FOR "LONGITUDINAL GROOVING IN CONCRETE" SHALL BE FULL COMPENSATION FOR FURNISHING ALL EQUIPMENT AND LABOR REQUIRED TO GROOVE THE DECK IN ACCORDANCE WITH THESE PLANS AND CURRENT SPECIFICATIONS.

M202

TRANSVERSE GROOVING OR TINING IN THE PLASTIC CONCRETE OF THE BRIDGE DECK OR BRIDGE FLOOR OVERLAY WILL NOT BE ALLOWED. LONGITUDINAL GROOVES SHALL BE CUT INTO THE HARDENED CONCRETE SURFACES USING A MECHANICAL CUTTING

DEVICE. THIS SURFACE TREATMENT SHALL BE DONE AFTER ANY SURFACE GRINDING IS DONE AND BEFORE TRAFFIC IS ALLOWED ON THE SURFACE. EACH GROOVE SHALL BE $3 \text{ mm} \pm 0.5 \text{ mm}$ IN WIDTH, $3 \text{ mm} + 1 \text{ mm}$ OR $- 1.5 \text{ mm}$ IN DEPTH, AND UNIFORMLY SPACED AT 20 mm INTERVALS. LONGITUDINAL GROOVING WILL NOT BE REQUIRED IN THE AREA APPROXIMATELY 600 mm ADJACENT TO THE CURBS AND SHALL TERMINATE APPROXIMATELY 150 mm FROM ANY ARMORED JOINTS.

THE LONGITUDINAL GROOVING IS TO BE BID ON A SQUARE METER BASIS. THE NUMBER OF SQUARE METERS OF LONGITUDINAL GROOVING WILL BE PAID FOR AT THE CONTRACT PRICE PER SQUARE METER BASED ON PLAN QUANTITIES. PRICE BID FOR "LONGITUDINAL GROOVING IN CONCRETE" SHALL BE FULL COMPENSATION FOR FURNISHING ALL EQUIPMENT AND LABOR REQUIRED TO GROOVE THE DECK IN ACCORDANCE WITH THESE PLANS AND CURRENT SPECIFICATIONS.

GAN/dgb/bj