

IOWA DEPARTMENT OF TRANSPORTATION

To Office Bridges and Structures

Date June 3, 2005

Attention All Employees

Ref No. 521.1

From Gary Novey

Office Bridges and Structures

Subject: Method's Memo No. 128 (Revised Longitudinal Grooving of Bridge Decks Plan Note

The longitudinal grooving note for bridge decks has been revised as shown. The plan note should be updated on all bridge projects not yet turned in where the E202/M202 note has been used.

E202

TRANSVERSE GROOVING OR TILING 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. LONGITUDINAL GROOVING SHALL BE DONE AFTER ANY SURFACE CORRECTION 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 THE GROOVES SHALL BE UNIFORMLY SPACED AT 3/4 INCH INTERVALS MEASURED FROM CENTER OF GROOVE TO CENTER OF GROOVE. LONGITUDINAL GROOVING SHALL NOT BE WITHIN THE AREA APPROXIMATELY 2 FEET ADJACENT TO THE CURBS AND SHALL TERMINATE APPROXIMATELY 6 INCHES FROM ANY JOINTS. THE QUANTITY OF LONGITUDINAL GROOVING IN CONCRETE, IN SQUARE YARDS, WILL BE THE QUANTITY SHOWN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR LONGITUDINAL GROOVING IN CONCRETE PER SQUARE YARD.

M202

TRANSVERSE GROOVING OR TILING 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. LONGITUDINAL GROOVING SHALL BE DONE AFTER ANY SURFACE CORRECTION GRINDING IS DONE AND BEFORE TRAFFIC IS ALLOWED ON THE SURFACE. EACH GROOVE SHALL BE 3 mm \pm 0.5 mm IN WIDTH, 3 mm + 1 mm OR - 1.5 mm IN DEPTH, AND THE GROOVES SHALL BE UNIFORMLY SPACED AT 20 mm INTERVALS MEASURED

FROM CENTER OF GROOVE TO CENTER OF GROOVE. LONGITUDINAL GROOVING SHALL NOT BE WITHIN THE AREA APPROXIMATELY 600 mm ADJACENT TO THE CURBS AND SHALL TERMINATE APPROXIMATELY 150 mm FROM ANY JOINTS. THE QUANTITY OF LONGITUDINAL GROOVING IN CONCRETE, IN SQUARE METERS, WILL BE THE QUANTITY SHOWN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR WILL BE PAID THE CONTRACT UNIT PRICE FOR LONGITUDINAL GROOVING IN CONCRETE PER SQUARE METER.

GAN/dgb/bj