

Figure 5-395.110(B)

Precast Concrete End Section Type III – Single or Double Barrel For Skews $7\frac{1}{2}^\circ$ To 45°

Approved, and signed, March 24, 2011. Last date revised: October 9, 2015.

Revised 10-09-2015

At PLAN VIEW:

- Changed “B401-SPACED 1’-0” MAX.” note to “NO. 4 BENT BAR-SPACED 1’-0” MAX.” and “B401” note to “NO. 4 BAR”.

At SECTION C-C:

- Changed “B401” note to “NO. 4 BENT BAR”.

At B401:

- Changed the title for diagram “B401” to “NO. 4 BENT BAR”.

At B401 ALTERNATE:

- Changed the title for diagram “B401 ALTERNATE” to “NO. 4 BENT BAR ALTERNATE”.

Under CONSTRUCTION NOTES:

- Added first note “See standard FIG. 5-395.101(A) and FIG. 5-395.101(B) for additional dimensions and construction notes.”
- Changed note three from “Grout shall consist of 1 part cement and 2 parts sand. Use 1A air entrained Portland cement. Grout mix shall have a maximum slump of 4”.” to “Grout consists of 1 part cement and 2 parts sand. Use type 1A air entrained Portland cement. Grout mix maximum slump is 4”.”
- Changed second sentence of circled note ⑤ from “Lintel beams shall contain 5000 psi concrete unless otherwise specified.” to “Use lintel beams with 5000 psi 3W82 concrete unless otherwise specified.”
- Changed “B401” to “no. 4 bent bars” in circled note ⑥.
- Changed “. . . the maximum skew shall be 30° .” to “. . . the maximum skew is 30° .” in circled note ⑦.

Revised 11-06-2013

Throughout the sheet:

- Removed the term “Mn/DOT” from all of the locations referencing a Mn/Dot spec.

Added the Abt REINFORCEMENT table to the sheet.

Changed the first column in the Lintel Beam Reinforcement, Length N and the Lintel Beam Thickness tables from “WIDTH” to “SPAN”.

At the Lintel Beam Reinforcement table:

- Changed multiple spacing and reinforcement sizes in columns “A1” and “A2”

Updated the signature block to make it similar to other standards.

Revised 04-17-2013

This standard was updated to convert reinforcing bar marks from metric to U.S. customary bar designations.

Re-Approved 03-24-2011

Under CONSTRUCTION NOTES:

- Changed numbered note ⑤ to read: “See lintel beam thickness table on this sheet. Lintel beams shall contain 5000 PSI concrete unless otherwise specified.”
- Added numbered note ⑦ “For culverts with spans of 16’ the maximum skew shall be 30° .”
- Added numbered note ⑧ “Alternatively a 9” thickness may be used with 6500 PSI concrete.”

At PLAN VIEW:

- Added note: “Curb ends may be fabricated parallel to skew” with circled leader line to the end of curb.

At SECTION C-C:

- Added sub-title, “Lintel Beam with Integral Curb”

At “LINTEL BEAM REINFORCEMENT” TABLE:

- Added another row to the table for 16 ft. width.

Minnesota Department of Transportation – Bridge Office
REVISION LOG for Figure 5-395.110(B)

October 9, 2015 Page 2 of 2

At “LENGTH N” TABLE:

- Added another row to the table for 16 ft. width.

Added “LINTEL BEAM THICKNESS” table to the standard.

09-17-2004

At EXTRA STRONG CONNECTION DETAILS – PLAN VIEW:

- Changed drawing of bolt head to hex nut.
- Changed note: *from* Mn/DOT SPEC. 3385, TYPE C, $\frac{7}{8}$ " DIA. THREADED ROD WITH HEX NUTS AND... *to* Mn/DOT SPEC. 3385, TYPE C, $\frac{7}{8}$ " DIA. THREADED ROD WITH TWO HEX NUTS AND ...

At EXTRA STRONG CONNECTION DETAILS – SECTION E-E: showed plate washers at hex nuts.

At EXTRA STRONG CONNECTION DETAILS – PLATE DETAIL: changed detail to show $1\frac{1}{2}$ " (TYP.) is to slotted hole radius not edge of slotted hole.

Approved, and signed, December 11, 2000