

Minnesota Department of Transportation – Bridge Office  
**REVISION LOG** for Figure 5-397.630(A)

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**Figure 5-397.630(A)**

**Waterproof Expansion Device (Raised Median or Sidewalk with F Barrier and Parapet)**

Approved and signed, August 24, 2016.

**Approved 08-24-2016**

GENERAL:

- Sheet number changed from 5-397.630 to 5-397.630(A) to accommodate the addition of a Type S Barrier (Fig. 5-397.630(B)).
- Changed the title of the sheet from "Waterproof Expansion Device (Raised Median or Sidewalk with Parapet)" to "Waterproof Expansion Device (Raised Median or Sidewalk with F Barrier and Parapet)".

At SECTION D-D:

Changed note from "3/4" dia. x 4" bolt" to "3/4" Dia. x 4" bolt staggered (Typ.) at 1'-0" max. spacing"

Added note "(Integral Sidewalk)" beneath title.

At ELEVATION:

Changed sheet reference from 5-397.627 to 5-397.627(A).

At ELEVATION RAISED SIDEWALK DETAILS:

Added 1'-9" dimension to plate size.

Added 6" max. to left side of joint.

Under GENERAL NOTES:

Updated notes to use active voice.

Changed sheet reference from 5-397.627 to 5-397.627(A).

Added "Provide bond beaker (duct tape, etc.) to underside of cover plate" to end of note ①.

At SECTION THROUGH BARRIERS – INTEGRAL SIDEWALK

Added "1'-6" Max. Spg. Bent Studs" note.

Removed aesthetic reveal on backside of F barrier.

At MEDIAN ELEVATION:

Updated detail to more closely match layout and dimensions shown in "Elevation - Raised Sidewalk Details".

**Revised 05-25-2016**

Under GENERAL NOTES:

- Changed numbered note ① to read: Provide smooth concrete finish beneath plate with 0" min. to 1/8" max. gap between concrete and underside of plate.
- Changed numbered note ③ to read: Dimensions shown are required to comply with A.D.A. standards.
- Changed the term within numbered note ④: From "Bridge Bearing Lubricant" to "Bridge Grease".

Throughout the Standard:

- Removed the Bit Felt from the underside of the sidewalk, median, barrier and parapet plates and the accompanying note.
- Changed the taper of the concrete surface from the expansion/movement side of the cover plate to the top of the sidewalk surface. The length of taper changed from 1 1/2" to 6" minimum to comply with A.D.A. standards.

At the Raised Sidewalk Options 1 & 2:

- Changed the 8" sidewalk height dimension to an open dimension to be filled in.

At the Raised Sidewalk Details:

- Changed the plate note to read: 3/8" Raised Pattern Plate to be recessed 1/8" below walkway surface and 1/4" below face of sidewalk.

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At Section D-D:

- Added numbered note ③ to the section name.
- Changed the dimension labeled as numbered note ③ to 1/8”.

At Elevation:

- Added a dimension with numbered note ② to the expansion joint/cover plate movement location.

At Detail “A”:

- Added numbered note ③ to the detail name.
- Added numbered note ① to the gap between the plate and the sidewalk surface.
- Changed the dimension showing the height of the concrete taper from 1/2” max. to 1/2” ± 1/8”.
- Changed the concrete taper length from 1 1/2” to 6” minimum to comply with A.D.A. standards.

At Median Elevation:

- Removed the “See Detail “A” with leader line and circled location.

**Revised 11-06-2013**

Under GENERAL NOTES:

- Changed first note *from*: See “Detail”..... *to*: See “Standard Figure” .....
- Added second note: 3/4 " Dia. X 1" Flat Head Cap Screw With 1/2 " Square Or Hex Socket Per Spec 3391. Cap Screws Shall Be Countersunk 1/16 " Below Top Of Plate. Apply Bridge Bearing Lubricant To Screw Threads. ④
- Changed numbered note ②. Changed the word “Detail” to “Standard Figure” within the note.
- Added numbered note ③. 1/8” ( 1/4” Max.).
- Added numbered note ④. Lubricant Per MnDot Approved/Qualified Products List: Bridge – Bridge Bearing Lubricant.

At the SHEET TITLE:

- Changed the sub title to read: (Raised Median Or Sidewalk With Parapet)

At SECTION THROUGH SIDEWALK - OPTION 1 and OPTION 2:

- Changed the section name to: “SECTION THROUGH RAISED SIDEWALK” for Option 1 and Option 2.
- Changed the sidewalk slope designation to: “.01’/ FT.” with a directional slope line.

At SIDEWALK DETAILS – ELEVATION:

- Changed name from “SIDEWALK DETAILS” to “RAISED SIDEWALK DETAILS”.
- Changed note to read: ⌀ 3/4 " Dia. X 1" Flat Head Cap Screw With 1/2 " Square Or Hex Socket. Apply Bridge Bearing Lubricant To Screw Threads. ④

At INSIDE ELEVATION:

- Changed the name of the detail *from*: “INSIDE ELEVATION” *to* “ELEVATION”.
- Changed the words “Railing” and “Rail” *to* “Barrier” in the subtitle for the detail..
- Changed the look of the plate to reflect the brush curb shape. Added “Top Of Brush Curb” with leader.
- Changed the look of the coupling nuts and 4” bolts to reflect their direction.
- Changed the note pointing to the plate *from* a 10” high plate *to* a 1’-0” high plate.  
Combined two notes into one: 2" LONG HEX COUPLING NUT and 3/4 " DIA. x 4" BOLT with leader line pointing to two locations.
- Changed the note pointing to the coupling nut locations to read: ⌀ 3/4 " Dia. X 1" Flat Head Cap Screw With 1/2 " Square Or Hex Socket. Apply Bridge Bearing Lubricant To Screw Threads. ④
- Split the note pointing to the slotted hole and coupling nut location in the plate into two notes. They read:  
(note one) 1” Dia. X 6” Long Slotted Hole For 3/4 " Dia. X 1 1/2” Flat Head Cap Screw With 1/2” Square Or Hex Socket. Apply Bridge Bearing Lubricant To Screw Threads. ④  
(note two) 2" Long Hex Coupling Nut And 3/4 " Dia. X 4" Bolt. Do Not Tighten Down Cap Screw. See Detail “A” On Standard Figure 5-397.627.

At SECTION THROUGH RAILING – INTEGRAL SIDEWALK and related detail locations:

- Changed the word “Railing” to “Barrier” at the title and related detail locations.
- Changed the shape of the plates on the back of the F barrier and front of the parapet barrier to reflect the brush curb shape.
- Changed the shape of the back of the parapet barrier to reflect the 2” x 1’-0” coping.

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- Changed the note pointing to the brush curb plate to read: “ 3/8” X 1’-0” X 2’-2” Plate With Brush Curb To Be Recessed 1/4” Below Face Of Barrier (3/4” Inside Bend Radius)(Typ.)
- Added the weld symbol at the brush curb plate.

At MEDIAN SECTION:

- Removed the Acetate Gland and related note.
- Removed the Median Joint and changed the accompanying note to read: Symmetrical About  $\text{⌀}$  Median.

At DETAIL “A”:

- Removed the plate dimension (1’-0 1/2”) from the Raised Pattern Cover Plate note.

**Revised 02-23-2011**

Under GENERAL NOTES:

- Added numbered note: ① Use Largest Single Piece Possible. Use Of Small Pieces Or Scraps Secured Together Is Prohibited.
- Added numbered note: ② See Note ② On Detail Sheet 5-397.627.

Added: DETAIL “A” to the sheet. (Showing in detail the expansion/contraction opening of the cover plate and the sidewalk.)

At INSIDE ELEVATION:

- Added: ① to the existing note “ 1/2” Bit. Felt Or Equal”

At MEDIAN SECTION:

- Added: ① to the existing note “ 1/2” Bit. Felt Or Equal”

At SECTION THROUGH SIDEWALK – OPTION 1:

- Added: ① to the existing note “ 1/2” Bit. Felt Or Equal Under Free End Of Plate”

At SECTION THROUGH SIDEWALK – OPTION 2:

- Added: ① to the existing note “ 1/2” Bit. Felt Or Equal Under Free End Of Plate”

At MEDIAN ELEVATION:

- Removed note: “1/4” Bevel” from the cover plate.
- Added: ① to existing note “ 1/2” Bit. Felt Or Equal”.
- Added note: “SEE DETAIL “A” with leader line to circled area of detail.

At SIDEWALK DETAILS / ELEVATION:

- Removed note: “1/4” Bevel” from the cover plate.
- Added: ① to existing note “ 1/2” Bit. Felt Or Equal”.
- Added note: “SEE DETAIL “A” with leader line to the circled area of detail.

At SECTION THROUGH RAILINGS – INTEGRAL SIDEWALKS:

- Added the *BIT. FELT* to the detail between the two barriers, under the cover plate.
- Added note: ① “ 1/2” Bit. Felt Or Equal” with leader line to the *BIT. FELT*.

At SECTION D-D:

- Added the *BIT. FELT* to the detail under the cover plate.
- Changed: Both the cover plate and the edge of the concrete to show more of a tapered edge at the expansion side of the detail.
- Removed : The 1/2” dimension showing the edge of the concrete and the leader line with the word “CHAMFER”
- Added: ① “ 1/2” Bit. Felt Or Equal Under Free End Of Plate” with leader line pointing to the *BIT. FELT*.
- Added note: “SEE DETAIL “A” with leader line to the circled area of detail.

**Revised 03-30-2010**

At SIDEWALK DETAILS – ELEVATION:

- Adjusted the arrow to point to the correct location for the note “ 3/4” Dia. x 4” Bolt”.

At MEDIAN ELEVATION:

- Added note – “ $\text{⌀}$  3/4” Dia. x 1” Flat Head Cap Screw”. And changed the line style for the note.

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- Added the concrete hatch to the view for the deck.

**Revised 10-28-2008**

At SECTION THROUGH RAILINGS – INTEGRAL SIDEWALK:

- Changed the section to show Bent Studs on the expansion device under the sidewalk.

Approved, and signed, September 26, 2003.