

6. The Fabricator shall imprint on the structure the date of construction as specified and detailed

7. Installation of the precast sections shall be in accordance with the final approved shop plans.

8. A design and check design done by S.D. Registered Engineers shall be submitted to the Office

of Bridge Design thru proper channels for the sections with the 18" and 24" R.C.P. thru the

on Standard Plate No. 460.02.

sidewall.

SHOP PLANS

The fabricator shall initially submit three (3) copies of the shop plans to the Office of Bridge

Design for review. One reviewed copy will be sent back to the fabricator who will then make changes, if any, and then send the Office of Bridge Design seven (7) final approved copies for

distribution. Include design and check design, if applicable, with initial submittal.

MINNEHAHA COUNTY

PW

DC

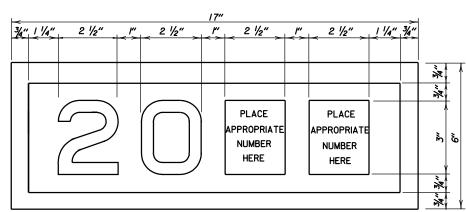
S. D. DEPT. OF TRANSPORTATION

MARCH 2007 1) OF (3) DESIGNED BY DRAWN BY CHECKED BY

Kevm

<u>l boeden</u> BRIDGE ENGINEER

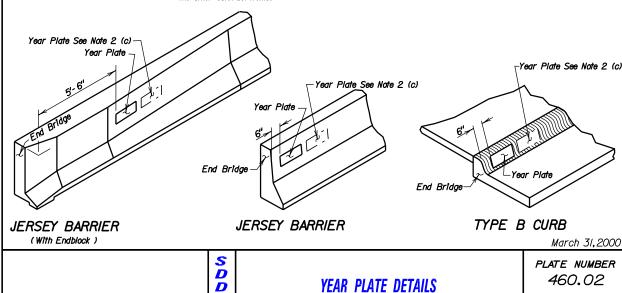
OFFICE OF BRIDGE DESIGN, SOUTH DAKOTA DEPARTMENT OF TRANSPORTATION



YEAR PLATE DETAILS

NOTES:

- Year plates of the general dimensions shown shall be constructed on all box culverts and bridges. The year plates shall be constructed in reverse and attached to the forms in such a manner that the finished imprint in the concrete does not exceed one-half $(\frac{1}{2})$ inch in depth.
- 2. Year plates shall be located on structure (s) as follows:
- a. On cast-in-place box culverts the year plates shall be four and one half (4 $\frac{1}{2}$) Inches below the top of the upstream parapet wall and centered laterally on the upstream face. On precast box culverts the year plate shall be centered laterally on the upstream face of the top slab. Where an extended interior wall interferes with this location, the year plate shall be centered in an adjacent barrel.
- b. On bridges with six (6) Inch curbs or "Jersey" shaped barriers with no endblocks, the year plate shall be centered vertically on the curb face approximately six (6) inches from the end of the bridge, or as designated by the Engineer. On bridges with "Jersey" shaped barrier endblocks, the year plate shall be centered on the upper sloped portion of the barrier approximately 5'-6" from the end of the bridge, or as designated by the Engineer. There shall be one year plate at each end of the bridge on opposite sides.
- c. When the plans specify that both the original date of construction and the date of reconstruction are to be shown, one date shall be placed as listed above and the other located ad Jacent to 1t. Both year plates shall be shown at each end of the bridge on opposite sides.
- 3. There will be no separate measurement or payment made for year plates on box culverts and bridges. All costs for this work shall be incidental to the other contract Items.



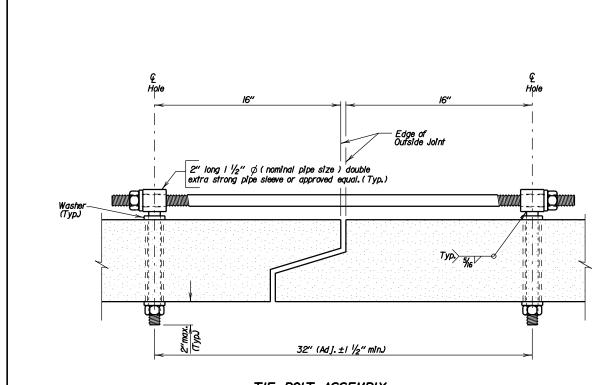
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Published Date: 1st Qtr. 2007

YEAR PLATE DETAILS

460.02

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TIE BOLT ASSEMBLY

GENERAL NOTES:

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Published Date: 1st Qtr. 2007

- All holes for tie bolts shall be cast-in-place, 16 in. from outside edge of joint. Cast in inserts or sleeves, if used, shall be made of a corrosion resistant material.
- Welding and weld inspection shall be in conformance with the current edition of the AWS Di.I Structural Steel Welding Code.
- 4. Tie Bolt Assembly shall be galvanized in accordance with ASTM AI53.
- Tie Bolt Assembly details may vary from that shown, but alternate tie bolt assemblies are subject to testing to demonstrate equal strength. Submit details, through proper channels, to the Office of Bridge Design for approval.
- 6. All costs for furnishing and installing the precast box culvert tie bolt assembly shall be incidental to the contract unit price per foot for the corresponding "Precast Concrete Box Culvert, Furnish bid

April 25, 2006

PRECAST BOX CULVERT TIE BOLT ASSEMBLY DETAILS PLATE NUMBER 560.01

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10' X 8' BOX CULVERT (PRECAST)

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 PROJECT NO. SHEET NO. SHEETS

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