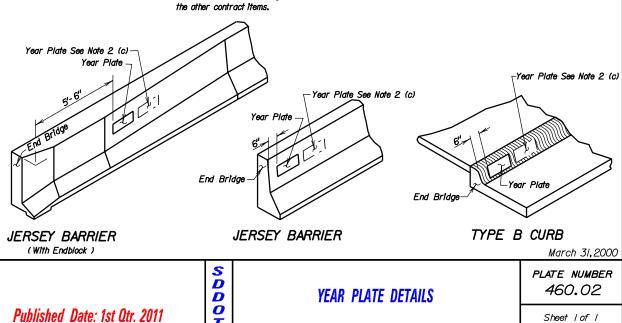
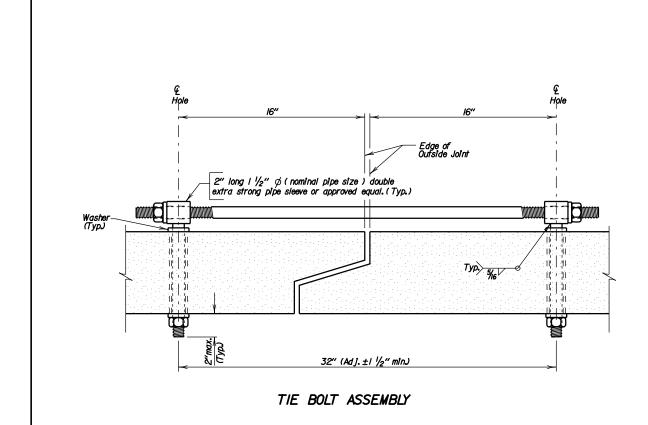


## YEAR PLATE DETAILS

## 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 (½) 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 adjacent to it. Both year plates shall be shown at each end of the bridge on opposite sides.
- 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.





## GENERAL NOTES:

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- All holes for tie boits 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.
- All costs for furnishing and installing the precast box culvert tie bott assembly shall be incidental to the contract unit price per foot for the corresponding 'Precast Concrete Box Culvert, Furnish bid Item.

April 25, 2006

PLATE NUMBER 560.01

Sheet I of I

Published Date: 1st Qtr. 2011

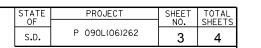
PRECAST BOX CULVERT
TIE BOLT ASSEMBLY DETAILS

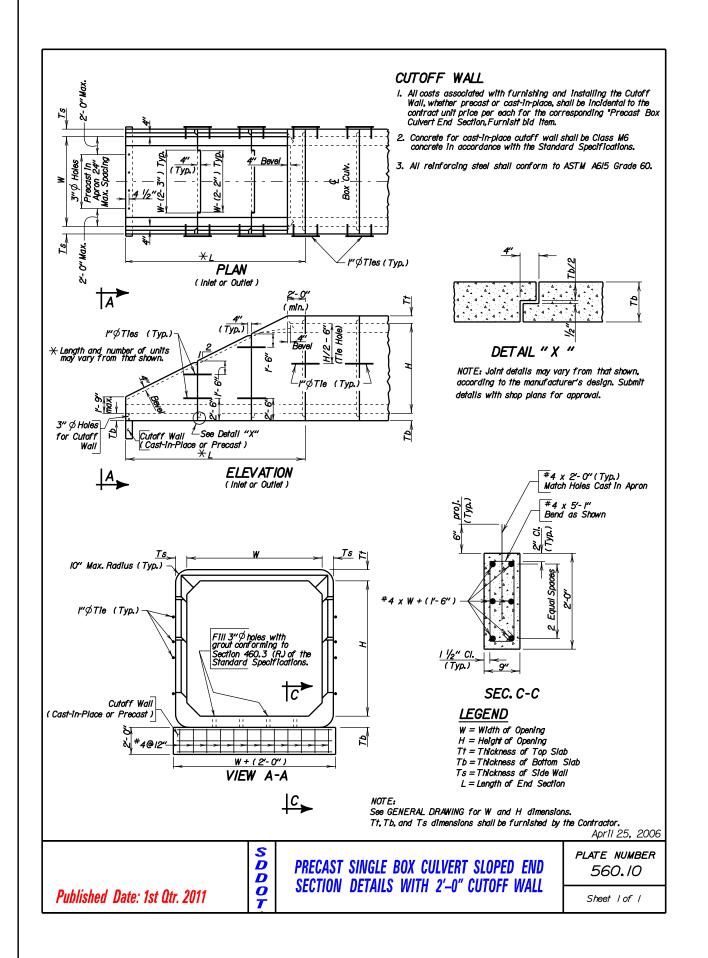
14' X 14' BOX CULVERT (PRECAST) STR. NO. 43-502-265

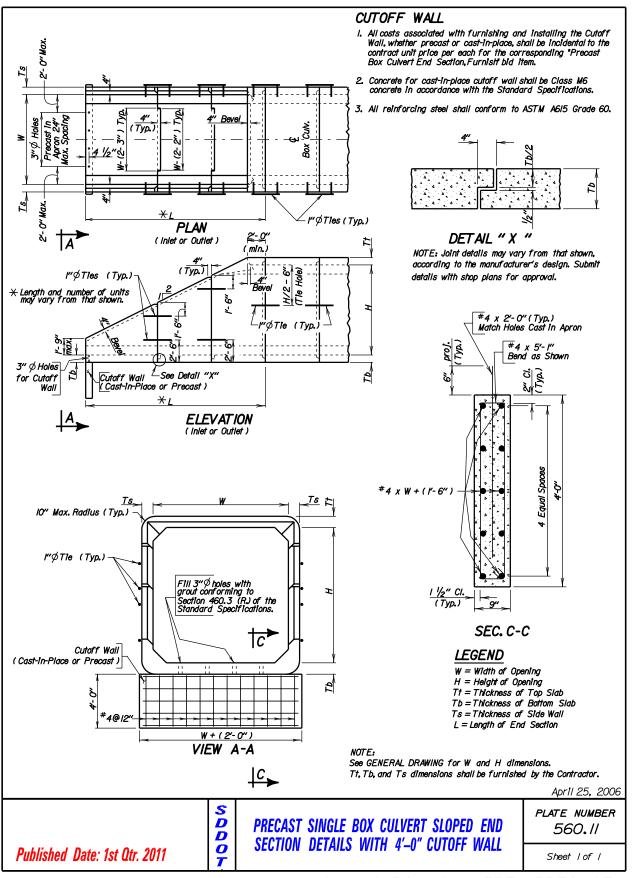
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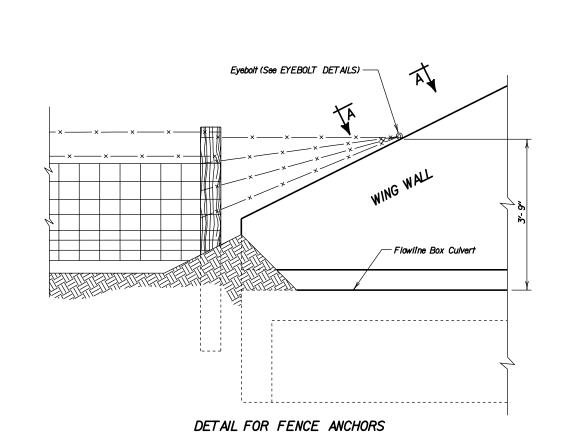


14' X 14' BOX CULVERT (PRECAST) STR. NO. 43-502-265

JANUARY 2011

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ANUARY 2011 3 OF 4

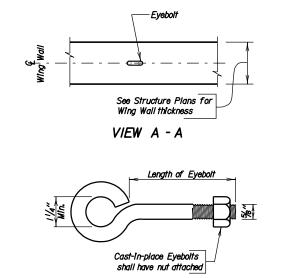


## GENERAL NOTES:

- The fence and post details shown are for illustrative purpose only.
   The fence shall be as specified elsewhere in the plans.
- 2. Eyebolts shall be placed on all of the box culvert wing walls.
- 3. Eyebolts shall be 5%" dia. and shall conform to ASTM A307.
- Eyebolts, nuts, and concrete inserts shall be galvanized in accordance with AASHTO M232 (ASTM AI53). Concrete inserts of corrosion resistant material need not be galvanized.
- 5. Cast-In-place eyebolts shall have a nut attached, be 4 ½" (MIn.) In length and shall be embedded such that the eye of the bolt is flush with the concrete surface. (See Eyebolt Defalls) As an alternate, cast-In-place concrete Inserts, capable of developing the full strength of the ½" diameter threaded eyebolt, may be used and shall be set in the concrete in accordance with the manufacturer's recommendations. The eyebolt shall be of sufficient length to develop its full strength. The eye of the eyebolt shall be flush with the concrete surface.
- 6. The cost for furnishing and installing eyebolts and/or concrete inserts shall be incidental to the contract unit price per pound for "Reinforcing Steel" or shall be incidental to the contract unit price per each for the corresponding "Precast Box Culvert End Section, Furnish" bid Item.

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EYEBOLT DETAILS

April 25, 2006

Published Date: 1st Qtr. 2011

FENCE ANCHORS FOR BOX CULVERT WING WALLS

PLATE NUMBER 620.16

14' X 14' BOX CULVERT (PRECAST) STR. NO. 43-502-265