

## ANCHOR BOLT AND BEARING PAD REMODELING POLICY

This policy is intended to insure that all necessary remodeling of anchor bolts and bearings is performed. It is also the goal to reduce the amount of judgment decision that must be made after the contract is let and to limit the amount of cost overruns.

1. Obtain from Bridge Maintenance and other sources a general evaluation of the bearings and anchor bolts.
2. From this information make a decision as to the need for replacement of masonry plates.
3. Determine anchor bolts requirements by specifications to fix the structure against movement. Generally, the original plans called for a high factor of safety relative to the required amount of anchor bolts.
4. Based on the condition survey (1) and the design (3) make a judgment decision as to whether additional or replacement anchor bolts are required. I recommend a ration of 1.5 available to 1.0 required for existing bolts. For a widening project the anchor bolts for the new beams can generally be sized to fill design requirements for the span.
5. Specify number of anchor bolts to be replaced, if any are required. Any bolts broken in the procedure outlined below shall be replaced and can be used to fulfill the replacement requirements.
6. Require removal of nuts on all expansion bearing anchor bolts. Clean the bolt and plate hole with torch, air, or other methods, repaint and replace nut and new felt washer. Nut removal procedure to meet approval of Engineer to limit amount of broken bolts. Replace any bolts that are broken in the process.
7. Allow the welding of extensions in lieu of breaking out the existing anchor bolts where possible.
8. If no replacement bolts are required under (4) use 10% minimum of (6) to establish a bid price.