

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
SPECIAL PROVISION
FOR
ANODES**

These special provisions amend, and where in conflict, supersede applicable sections of the 2009 Standard Specifications for Highway Construction, English and Metric.

513 REPAIR OF CONCRETE BRIDGE DECKS

513.04.E Anodes (*Replace the first paragraph with the following:*)

Embed galvanic anodes at the perimeter of the deck patch, concrete beam repair, pier cap repair, or column repair as specified in the plans to protect against corrosion. Use pre-manufactured anodes containing at least [100 g] of zinc metal, in accordance with ASTM B 418 Type II with a minimum surface area of 20 in² [129 cm²]. Provide anodes surrounded by a pair of 16 gauge steel tie wires in accordance with bright annealed ASTM A 82, and encased in a highly alkaline cementitious shell with a pH of 10 or greater. Galvanize tie wires in accordance with ASTM A 641, Class 1. Limit the maximum halide content of the anode to 0.5% by weight of encasement mortar. Provide a minimum of ½" stand off (distance between the anode and the reinforcing steel). Tie anodes with integral tie wires to reinforcing steel as follows: