EXPANSION ANCHOR NOTES FOR BRIDGE DECK ATTACHMENT

1. Use torque controlled mechanical expansion anchors that are approved for use in cracked concrete by the International Code Council, Evaluation Service (ICC-ES). The chosen anchor product shall have a designated ICC-ES Evaluation Report number, and its approval status shall be maintained on the ICC-ES website under Division 031600 for Concrete Anchors.

2. Unless otherwise approved by the Engineer, do not use adhesive anchors; do not use expansion anchors that are not included in the ICC-ES approved list; and do not use expansion anchors that are only approved for use in uncracked concrete.

3. Use anchors manufactured with stainless steel expansion wedges. Anchors manufactured with carbon steel expansion wedges are not allowed. Anchor bodies can be either plain-uncoated carbon steel or stainless steel. For application in marine environment, both the anchor body and expansion wedge shall be stainless steel.

4. Install anchors as shown on the plan and in accordance with the anchor manufacturer’s published installation instructions. Arrange a field demonstration test to evaluate the procedures and tools. The test shall be witnessed and approved by the Engineer prior to furnishing anchors on the structure.

5. Prior to hole drilling, use rebar locator to ensure clearing of existing deck strands or reinforcement. Install anchors to ensure a minimum effective embedment depth. Pull as shown. Force metrics needed to ensure sufficient thread length for proper torqueing and tightening of anchors.

6. Use anchors of minimum 1600 lbs tensile capacity in steel, concrete, masonry, and concrete butted strength as determined by ACI 318 Appendix A or the required minimum embedment depth (see Part 2). No internal loads shall be introduced after conduit installation.

TYPICAL CONDUIT ENTRY TO BRIDGE STRUCTURE DETAIL

Conduit Hanger Assembly Detail

Electric Conduit to Bridge Deck Attachment

Conduit Mounting Options

Conduit Mounting Channels

Conduit Spacers

Concrete Structure

Stainless Steel Expansion Anchor for Conduit

Expansion Anchor Notes for Bridge Deck Attachment