**DESIGN CRITERIA**

The purpose of this drawing is to provide standard details and rules for the reinforcement of concrete protection to AS 5765. The details are to be determined and certified by the bridge design engineer. When only structural protection is required, the concrete protection is designed to suit specific locations. This drawing is to be used in conjunction with the project specific drawings.

In accordance with Work Health and Safety requirements, structural details must be clearly presented to allow them to be inspected and maintained. Where the clearance is no greater than 1700 mm, this can be done by walking around the edges of the protection. For structures with clearances greater than 1700 mm, a platform should be provided to ensure the confidence of the platform.

Platform edge protection is required in accordance with relevant OHS legislation. The platform shall be supported by a safety barrier to restrict access to the platform. The platform should be at least 500 mm wide and 150 mm thick. The platform shall be extended 150 mm beyond the edge of the platform.

**SECTION DETAILS**

Concrete slab contraction joint:

- Concrete slab contraction joint with a maximum thickness of 200 mm.
- Joint to be filled with a durable asphaltic material.
- Joint should be prevented from shearing.

**GENERAL LAYOUT (SQUARE BRIDGE)**

- Bridge inspection and maintenance platform.
- General arrangement and details.
- Dimensions for structural elements.

**CONCRETE SLAB CONTRACTION JOINT**

- Joint shall be provided at 2000 mm maximum. A minimum of 250 mm is to be allowed prior to placement of adjacent concrete.

**NOTES:**

1. The drawing is approved by the Engineer.
2. Refer to General Design Criteria for Bridge and other Structures for the protection design.
3. Construction drawings to be prepared by the Contractor.
4. Surface finishes shall be in accordance with Australian Standards.
5. Reinforcement shall be in accordance with Australian Standards.
6. Welding shall be in accordance with Australian Standards.
7. All materials shall be in accordance with Australian Standards.

**ASSOCIATED TECHNICAL DOCUMENTS:**

- General Design Criteria.
- Bridge Schematic Drawings.

**ABUTMENT PROTECTION**

**TYPE 2 - REINFORCED CONCRETE OVER SPILLTHROUGH - GREATER THAN 1700 CLEARANCE**

- Design Drawing No: 2235
- Date: 6/2005

**Department of Transport and Main Roads**

- Standard: RTA Distribution Circular 429 of 2005
- Mfr: Work Health and Safety Regulation 2011