



**SPECIAL PROVISIONS
FOR
CRASH GATE**

**Pottawattamie County
ESL-000R (1)--7S-78**

**Effective Date
November 17, 2009**

THE STANDARD SPECIFICATIONS, SERIES OF 2009, ARE AMENDED BY THE FOLLOWING ADDITIONS AND MODIFICATIONS. THESE ARE SPECIAL PROVISIONS AND THEY SHALL PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.

090017.01 DESCRIPTION.

Crash gate shall consist of welded steel tubing, painted yellow, including all fastenings, terminal/gate post, locking hardware and constructed as herein specified in conformity with the contract documents.

090017.02 MATERIALS.

- A.** Crash gates shall be made of steel tubing having a minimum tensile strength of 36,000 P.S.I. (ASTM Grade A) and to the dimensions shown on the plans.
- B.** Terminal post and gate post shall be 6 inch dia. steel pipe with a wall thickness of 0.188 inches.
- C.** All fasteners, locking hardware, miscellaneous steel plating and grease fittings shall be new and in conformity with the contract documents.
- D.** Concrete for foundations shall have a minimum strength of 3000 P.S.I. after 28 days.
- E.** Crash gates shall be painted with a Prime Coat (Gray organic zinc-rich epoxy primer) and a top coat of Safety Yellow Latex.

090017.03 CONSTRUCTION.

- A.** Contractor shall clear all vegetation required to install crash gate.
- B.** Terminal/gate post and crash gate shall be installed on true alignment, grade and to dimensions shown on the plans.

C. Loose dirt around post holes shall be removed and loose dirt in post holes shall be tamped prior to placing posts and concrete. Posts shall be set in a vertical position, plumb and in line. Concrete shall be placed into the excavation and shall be crowned 1 inch above grade to shed water away from the post. Post shall be braced, as required, to ensure post remain vertical, plumb and in the design location. Posts shall be set in the concrete foundations a minimum of 3 days before installation of the crash gate.

D. The crash gate shall be constructed using the steel tubing as previously specified and to the dimensions shown on the plans. The steel tubing shall be sawcut, welded and all holes drilled, as required. Welds shall be made smooth and flush. All welds shall be of A36 steel and in accordance with the AWS Welding Code.

E. The crash gate shall be installed plumb, level and secure for full opening without interference. Gate operation shall be smooth and even. All fasteners, locking hardware, miscellaneous steel plating and grease fittings shall be installed in conformity with the plans.

F. Surfaces to be painted shall be prepared and paint applied as follows:

1. Exposed surfaces shall be clean of all grease, oil, mill scale, dirt, concrete, rust, old paint or any other contaminants.
2. Prime coat shall be applied at 3.0 – 4.0 mils Dry Film Thickness.
3. Two top coats shall be applied each at 1.5 mils Dry Film Thickness. A minimum of 24 hours shall be allowed between coats for the preceding coat to dry completely.
4. Application shall be by brush or spraying. Adjacent surfaces shall be protected. Contractor shall be responsible for damage by overspray and airborne paint particles.
5. Paint shall not be applied when the air temperature in the shade is below 40°F or when the surface is wet. Paint shall not be applied when inclement weather conditions are pending. Contractor shall repaint if weather affects drying.

090017.04 METHOD OF MEASUREMENT.

The crash gate shall be measured per each gate installed.

090017.05 BASIS OF PAYMENT.

The crash gate will be paid for at the contract unit bid price per each gate installed, which shall include all necessary material, labor and equipment.