



**MaineDOT**

## ENGINEERING INSTRUCTION

Title: Crane Lifts

Number: S2

Discipline: General Engineering

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### **Background:**

Cranes are defined by OSHA as a machine for lifting and lowering a load and moving it horizontally, with a hoisting mechanism an integral part of the machine. Cranes, whether fixed or mobile are driven manually or by power. A crane lift is a dangerous operation and the utmost attention must be given to all aspects of the operation, from calculating the size of crane needed to the lift itself. Safety is paramount.

### **Applicability:**

This policy applies to all lifting moves of all portable, prefabricated truss bridges (PPTB), cranes hired to work on non-contract maintenance projects, and MaineDOT equipment. PPTB can be MABEY bridges, Bailey Bridges, or bridges with equivalent assembly methods

### **Policy:**

#### Crane Assisted Moves

Launching and retrieval of PPTB will only be allowed following procedures, sealed by a Professional Engineer, provided by the PPTB company and in accordance with the respective PPTB manuals.

Crane assisted launches and retrievals will not be allowed until such time as a process sealed by a Professional Engineer is approved by the PPTB company.

If a crane-assisted launch or retrieval process is approved by the PPTB company, the crane must have the capacity to lift the weight calculated the receiving abutment or pier, at the point of the initial lift, plus an additional 25%.