



TO: Engineering Services & Structures team
FROM: BNSF Structures Engineering *RGB*
DATE: 2/15/2017
SUBJECT: Overhead Bridge Erection Plan Expectations

I. OVERVIEW

In response to multiple recent beam and crane failures during overhead bridge erection activities for outside Agency projects, we are capturing action items to document best-practice for such erection over BNSF Railway.

Goal is that every overhead bridge erection on the BNSF Railway right-of-way shall be designed, planned and executed safely and without unplanned interruptions to Railroad Operations.

II. EXPECTATIONS

- a. Contractor will submit erection plan, for BNSF review, for any lifting activities requiring authority or protection over BNSF Railway tracks
 - i. PE seal on erection plan
 - ii. Agency review and approval of erection plan
 - iii. BNSF review regarding impact on train operations and clearances
- b. Engineered erection plan should include calculations for the following:
 - i. Procedures for girder stability prior to and throughout erection
 1. Bracing is required for all girders spanning over the railroad
 2. Analysis of measured and allowable sweep (consider fabrication)
 3. Analysis of lifting point placement and vertical / lateral movement during crane lifting
- c. Pre-Pick Safety Meeting is mandatory
 - i. The following attendees are required at the Pre-Pick Safety Meeting to review and confirm application of the submitted erection plan:
 1. Representative of the contractor
 2. Representative of the Agency or erection plan engineer
 3. Representative of BNSF Railway
 - ii. Is the plan workable? Are there any changes to the submitted plan?
 - iii. Any deviations or modifications need to go back through the erection plan approver or Agency representative
 - iv. The above parties are to confirm processes and documentation are in place to proceed with the planned erection, otherwise no track authority or track protection will be provided.

III. TIMELINE

- a. Expectations become effective on all active and future projects: March 1, 2017