

ORIGINATION FORM

Date: 10/07/13

Originator: Steven Plotkin

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Specification Title: Erection Plan

Specification Section, Article, or Subarticle Number: 460-7.1.3

Why does the existing language need to be changed? The current version requires all underground utilities to be shown on drawings in the erection plan; however, not all underground utilities in the work area are important to know about with regard to erection operations. This requirement unnecessarily complicates the drawings and expends needless detailing effort.

Summary of the changes: The text has been revised to allow the Specialty Engineer that develops the erection plan to determine which underground utilities need to be shown on the erection plan drawings.

Are these changes applicable to all Department jobs? Yes

Will these changes result in an increase or decrease in project costs? Very slight decrease,
If yes, what is the estimated change in costs? It is not practice to determine the savings from the information available.

With who have you discussed these changes? Rudy Powell, Dan Hurtado

What other offices will be impacted by these changes? No others

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? No

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? No

Contact the State Specifications Office for assistance in completing this form.

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ANANTH PRASAD, P.E.
SECRETARY

MEMORANDUM

DATE: November 12, 2013

TO: Specification Review Distribution List

FROM: Daniel Scheer, P.E., State Specifications Engineer

SUBJECT: Proposed Specification: **4600701 Structural Steel and Miscellaneous Metals.**

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Steve Plotkin of the State Construction Office to modify the language to allow the Specialty Engineer to determine which underground utilities need to be shown on erection plan drawings.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via e-mail at SP965DS, or daniel.scheer@dot.state.fl.us. Comments received after **December 10, 2013**, may not be considered. Your input is encouraged.

DS/dt
Attachment

STRUCTURAL STEEL AND MISCELLANEOUS METALS.
(REV 10-31-13)

SUBARTICLE 460-7.1.3 is deleted and the following substituted:

460-7.1.3 Erection Plan: Submit, for the Engineer's review, an Erection Plan locating all primary members, lifting equipment and temporary supports or braces, and bolting pattern tightening procedures not considered routine. Ensure that the plan includes the Specialty Engineer's signature and stamp. Include supporting calculations indicating that the design unit stresses indicated in the Contract Documents have not been exceeded. Provide this ~~P~~plan or ~~P~~plans to the Engineer three weeks before erecting the piece or pieces.

Include the following information in the Erection Plan:

1. A plan of the work area showing all substructure units and foundations; surface roads and railroads; all streams, creeks and rivers; ~~and~~ all overhead *utilities*; and *any* underground utilities *that could possibly impact, or be adversely affected by, erection operations as determined by the Specialty Engineer.*

2. The erection sequence for all primary load-carrying members and all primary load-carrying member bracing. Note any and all permanent or temporary support and/or bracing locations, including crane-holding positions.

3. The center of gravity locations, pick weight and delivery orientation for all primary load-carrying members and pick weight.

4. Identify any bolting requirements not considered routine.

5. Locate all pick crane work points.

6. Identify all temporary works and staging areas such as barges, mats and temporary excavation support.

7. Provide capacity charts on the drawings for each crane configuration and boom extension utilized.

8. Details of all temporary bracing, falsework, towers and shoring.

9. Provide any procedures requested by the Engineer and not contained in the ~~Quality Control~~ Plan.