



Structures Engineering Instructions (SEI)

Distribution: Structures, Bureau Chiefs, Chief of Contract Admin., Consultants

Approved: Wayne B. Symonds Date: 11/07/14
Wayne B. Symonds,
Structures Program Manager

Subject: Northeast Extreme Tee Beams

Administrative Information:

Effective Date: This SEI shall be effective for the Structures Section projects from the date of approval.

Superseded SEI: None.

Exceptions: Exceptions must be approved in writing by the Structures Program Manager.

Disposition of SEI Content: The content of this SEI shall be in force pending further evaluation and research.

Purpose:

Significant cracking has been observed in prestressed concrete Northeast Extreme Tee Form (NEXT F) beams on a recent project that can be seen in the attached photos. VTrans will continue evaluation and research into the cracking.

Pending the completion of the research, prestressed NEXT F Beams and NEXT E Beams shall not be specified for VTrans bridge projects under design.

This guidance does not restrict the use of the NEXT D Beams.

Technical Information:



Cracking in flange and web section of NEXT F Beams



Transverse cracking in NEXT F flange and cracking along the flange to web transition.



Cracking in NEXT F Section that was repaired at the Fabrication Plant but has opened back up.



Cracking in flange and web section of NEXT F Beams

Implementation:

This shall be effective immediately, and for all projects that have not progressed to the Contract Plan phase.

Transmitted Materials:

None