



ACEC

WSDOT/ACEC
Structures Team

April 1, 2004

WSDOT/ACEC Structures Team

- Provide a forum for addressing issues of common interest
 - ◆ Cost effective; profitable; quality projects
 - ◆ Prepare recommendations for specific actions to make improvements to the way we do business
 - ◆ Improve quality of (structural) project delivery in the State of Washington

Completed Process Change Recommendations

- Capturing lessons learned
- Determination of roles and responsibilities for projects with structures
- Defining our business responsibilities
- Plan in hand reviews for projects with structures
- Sharing lessons learned (almost complete)

On-going Work

■ Active:

- ◆ Designer expectations for 30%, 60%, and 90%: design reviews for projects with structures

■ Starting:

- ◆ Bridge office role in design build projects
- ◆ Determination and implementation of environmental project requirements

Completed Technical Issues

- Sloped bridge footings
- Barlists
- Detailing practice
- CADD compatibility

Technical Issues Focus Group

- Standing focus group - open issues include
 - ◆ Resources
 - ◆ Civil vs. Structural design procedures
 - ◆ BDM presentation
 - ◆ BDM Committee
 - ◆ Special Provisions
 - ◆ Load Ratings

Structures Team Process Change Recommendation #1

- Short Term Issue No. 1:
Capturing Lessons Learned
 - ◆ Adopted: 2/2/01
 - ◆ Focus: Provide a forum for continued project improvement to the design community through communication of construction challenges and successes to designers
 - ◆ Status: Published 7/1/02

Description

- Products include recommended time frames and meeting agenda, and format for capturing information
 - ◆ Construction Manual Section 6-1.1
 - ◆ Construction De-Briefing Session
 - ◆ Published July 2002

<http://www.wsdot.wa.gov/eesc/bridge/cecw/index.cfm>

Structures Team Process Change Recommendation #2

- Long Term Issue No. 1:
Determination of Roles and Responsibilities for Projects with Structures
 - ◆ Adopted 11/1/02
 - ◆ Focus: More effective communication, establish expectations, consistency in formation of design team and scoping of design efforts
 - ◆ Status: Awaiting publication 11/1/04

The Chart

- Scope
- Leader
- Involvement
- Delivery
 - ◆ Flow chart formalizes, early in project development, the definition of the delivery team
 - ◆ Improved early continuous communications
 - ◆ Efficient project delivery
 - ◆ Improved business environment

Structures Team Process Change Recommendation #3

- Short Term Issue No. 3:
Plan in Hand Reviews for Projects with Structures
 - ◆ Adopted: 12/5/03
 - ◆ Focus: Facilitate better project delivery through early knowledge of site conditions as they relate to a proposed project
 - ◆ Status: Awaiting transmittal to Executive Committee

Proposal

- A preliminary plan-in-hand meeting will be held as a part of the transition of a project from planning to design. A second plan-in-hand meeting will be held at some point between the 30% and the 60% level of completion. A minimum of two plan-in-hand meetings are recommended.

Description

- Attendees will include owners (“client” representatives) and team members from all applicable technical disciplines (task leads, key designers).
- Agenda will include a group gathering to discuss critical issues and project goals followed by a site walk as a group with discussion to include interaction of technical elements based on site features, obstructions, etc.
- Documentation to include notes, photo log, etc.

Pros: and Cons:

- **Pros:** Early understanding of project site conditions; team coordination; improved implementation, less re-work; better constructibility.
- **Cons:** No significant drawbacks were identified.

Structures Team Process Change Recommendation #4

- Short Term Issue No. 2:
Sharing Lessons Learned
 - ◆ Adopted 1/10/03; revision in progress following completion of website
 - ◆ Focus: Provide a forum for sharing lessons learned, expanding on the benefits gained through “Capturing Lessons Learned”
 - ◆ Status: Awaiting completion of revised recommendation prior to transmittal to Executive Committee

Proposal

- Database of “lessons learned” on the Internet.
- Periodically analyze lessons learned, identify trends, and consider recommendations for changes. Use as source for identification of process improvements.
- Share lessons learned at forums that may be appropriate such as: Western Bridge Engineers Seminar, Associated General Contractors, etc.

<http://fmapps.wsdot.wa.gov/acec/>

Description

- WSDOT will maintain a knowledgebase of lessons learned based on information received via a reporting webpage. Prior to posting the information received, the co-chairs of the ACEC/WSDOT Structures Team will evaluate the appropriateness of the information. Annually, the “lessons learned” will be presented at the ACEC/WSDOT Annual meeting by the Co-Chairs, who will encourage attendees to share with their staffs as appropriate.

Pros: and Cons:

- **Pros:** Knowledge will be shared easily between WSDOT, consultants, contractors, and local agencies.
- **Cons:** Reviewing and sharing the “lessons learned” will require some additional effort by the co-chairs and WSDOT staff.

Web Site

<http://www.wsdot.wa.gov/eesc/bridge/cecw/index.cfm>

<http://fmapps.wsdot.wa.gov/acec/>

- ◆ Construction Manual Section 6-1.2 ?
- ◆ Web Based Database
- ◆ Publish In 2004

Questions or Comments?

Contact the Team Co-Chairs

■ Karl Kirker

WSDOT

◆ (360) 705-7187

■ Kathy Cox-Czosnyka

CH2MHill

◆ (206) 248-7472