

Minutes of Meeting  
 Monday January 30, 2006 at 09:00 AM

Location: **1801 30th Street, Room 212**  
 Subject: **Caltrans – Industry Falsework Forum Kick-off Meeting**

Initials	Name	Representing
JW	John Walters	Caltrans OSC
HDF	H. Dale Floyd	Caltrans OSC
JvB	Jake van Baarsel	Washington Group Int'l
FM	Forrest Megargel	C.C. Myers
DB	Dan Baker	Harris & Assoc.
MB	Mark Beadleston	C.C. Myers
AW	Andy Wehrenberg	C.C. Myers
BK	Bill Kidwell	C.C. Myers
JL	John Lammers	Caltrans OSC
JG	John Gillis	Caltrans OSC

**1. Agenda**

Time	Topic	Speaker
Start 09:00am	Welcome	Host
	Self Introductions	All
09:15 - 09:30	Recommendations for the design of Beams and Posts in Bridge Falsework - Flange Bending Study	John Lammers
09:30-09:45	Discussion	
09:45 -10:00	Sand Jack Design and testing	John Gillis
10:00 -10:30	Discussion	

**2. Meeting Notes**

- A. Purpose of the meeting/forum was presented by JW:
  1. Provide a forum for discussion of issues related to falsework
  2. Attendees were encouraged to submit items for future discussion
  3. The intent is to hold the meeting quarterly.
- B. Presentation of UNR Flange Bending study by JL.
  1. Flange bending occurred after failure of the post (timber or steel)
  2. UNR developed equations based on testing to evaluate the possibility of flange bending
  3. Timber blocking provided resistance to flange bending (6 x 8 timbers used)
  4. What the Falsework manual refers to as “web crippling”, ASK Call “web yielding”
  5. UNR recommends Allowable Compressive Stress for timber parallel to the grain be reduced to 1000 psi. Current Std. Spec. is 1600 psi. NDS is 700 psi.
- C. Discussion of Flange Bending Study:
  1. Members of contracting industry present indicated that lighter sections are no longer used for falsework caps and sill beams. Minimum section is W 14 x 120.
  2. What is the timeframe for implementing possible related changes to the falsework manual and the Standard Specifications?
- D. Presentation of UCSD Sand Jack Study by JG.
  1. Purpose is to provide consistency in design
  2. Standards to be incorporated into the Falsework Manual

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- E. Discussion of Sand Jacks
  - 1. It was noted by DB, JvB & JG that had discussed researching this issue began some six years ago
- F. General Discussion:
  - 1. Discussion of RR protective cover for at grade crossings. Design requirements are unclear. BK?
  - 2. AW asked if contractor's engineers could sit in on winter training. They'd like to see where CT engineers get their information.
  - 3. Issue of work windows was brought up by JW. OSC will make an effort to be involved in setting these. Contractor's input would be valuable. Group from CCM noted that they have 20-minute windows on the East Sylmar job.
  - 4. JvB expressed concern over a lack of understanding by CT engineers of how to determine loading for fw at hinges. JW stated that this is a winter training topic and that issue will be clarified in the training.
  - 5. A special provision requiring the contractors fw engineer to have five years of experience was brought up. Will there be a similar requirement for CT engineers? JW had now knowledge of this special provision, but will look into it.
  - 6. HDF asked how contractor's engineers are trained in fw design. On the Job Training.
  - 7. The process of approval and use of contractor STD details was briefly discussed.

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These notes will be relied upon as the approved record of matters discussed and conclusions reached during the meeting.

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Prepared by: John F. Walters PE

Signed by: John F. Walters

Date: 02/03/2006