Welcome to Webinar on Accelerated Bridge Construction

Colorado Flyover Ramp Showcases Precast Pier Caps and Curved Spliced Precast U-Girders

Sponsored by

Accelerated Bridge Construction University Transportation Center (ABC-UTC) at Florida International University

Website: abc-utc.fiu.edu
Email: abc@fiu.edu

December 18, 2014 – 1:00 p.m. to 2:00 p.m. Eastern
Today’s Webinar

ABC Announcements (10 minutes)

Featured Presentation (35 minutes)

Colorado Flyover Ramp Showcases Precast Pier Caps and Curved Spliced Precast U-Girders


Question and Answer (15 minutes)

Please post your questions in the chat box
2014 National Accelerated Bridge Construction Conference

December 4-5, 2014
December 3 – Nine (9) workshops

Hyatt Regency, Miami, Florida

www.2014abc.fiu.edu
Example Bridge – Discontinuous CFs
Results

- Maximum cross-frame force reduced from -336 kips (for contiguous case) to -272 kips (for discontinuous case) in cross-frames framed into interior piers.
- Assume unguided elastomeric pads at each support with a longitudinal and transverse stiffness of 360 kips/foot. Provide shear keys for extreme event lateral forces.
- Maximum cross-frame force further reduced from -272 kips to -175 kips.
Before we begin/after

...knowing what you know about UHPC - how viable/practical do you think UHPC for PBE issues would be in your state?
- 26 State DOT co-sponsors
- Over 750 attendees, including >150 bridge engineers from owner agencies
- Travel scholarships for 90 bridge engineers from State DOTs
- 9 pre-conference workshops
- 170 technical presentations
- 54 exhibitors
- Best ABC Project Bridge awards (4)
- Most influential person
2015 National Accelerated Bridge Construction Conference

December 7-8, 2015
Sunday, December 6 – Pre-Conference Workshops

Hyatt Regency, Miami, Florida
Upcoming ABC Activities at TRB Annual Meeting

January 11-15, 2015 – Washington, DC

Workshop 124: Accelerated Bridge Construction

Sponsored by TRB AFF10(3) ABC Subcommittee; AFF10; AFF20; AFF30; AFH40 – Sunday, January 11, 2015

- SHRP2 R04 Rapid Renewal Update
- Kentucky Transportation Cabinet: Route 6 over Stewarts Creek
- Caltrans: Ft. Goff Creek Bridge
- Maine DOT: Kittery Overpass Bridge
- Eastern Federal Lands Highway Division: Seney NWR Bridge
- Tappan Zee Bridge and Prefabrication
Upcoming ABC Activities at TRB Annual Meeting

January 11-15, 2015 – Washington, DC

Workshop 162: Low Volume Road Bridges–Critical Issues
Sponsored by TRB AFB30, Low-Volume Roads; & AFH40, Construction of Bridges and Structures – Sunday, January 11, 2015

• Accelerated Bridge Construction Options for Low-Volume Roadway Bridges
• Use of GRS-IBS (Geosynthetic Reinforced Soil-Integrated Bridge System) Abutment Technology on Low-Volume Roads
Upcoming ABC Activities at
TRB Annual Meeting
January 11-15, 2015 – Washington, DC

Session 346: Case Studies on Use of Buried Structures for Accelerated Bridge Construction
Sponsored by TRB AFS40, Subsurface Soil-Structure Interaction; & AFF70, Culverts and Hydraulic Structures – Monday, January 12, 2015

- Considerations and Case Studies for Buried Bridges Used for Staged Construction
- Accelerated Box Bridge Construction
- Buried Bridge Best Practices for Accelerating Construction
- Case Study on Use of Buried Bridge for Rapid Construction in Ohio
Upcoming ABC Activities at TRB Annual Meeting

January 11-15, 2015 – Washington, DC

Session 498: Best Practices for Implementation of Accelerated Bridge Construction
Sponsored by TRB AFF10(3) ABC Subcommittee; AFF10; AFF30 – Tuesday, January 13, 2015

• Full-Scale Implementation and Testing of Full-Depth Precast Bridge Deck Panels
• Systematic Development, Implementation, and Deployment of Prefabricated Bridge Elements & Systems
• Experimental Evaluation of Prefabricated Deck Panel Connections
Upcoming ABC Activities at TRB Annual Meeting
January 11-15, 2015 – Washington, DC

ABC Subcommittee Meeting, AFF10(3)
– Tuesday, January 13

AFF10(3) website is open for “Friend of the Committee” registration:
http://www.trbaff103.com/

For more information, contact Ben Beerman:
Benjamin.Beerman@dot.gov
Upcoming Events

2015 ASCE/SEI Structures Congress – Portland, OR
April 23-25, 2015
Sponsored by ASCE/Structural Engineering Institute (SEI)
http://www.seinstitute.org/

Online Registration now open:
http://structurescongress.org/registration/

Session 19: Accelerated Bridge Construction
Track: Bridge Research Topics
2015 ASCE/SEI Structures Congress – Portland, OR
April 23-25, 2015

Session 19: Accelerated Bridge Construction
Track: Bridge Research Topics
Date: Friday, April 24, 2015
Time: 3:30 - 5:00 pm

Moderator: Atorod Azizinamini

Accelerated Bridge Construction of Column to Pile-Shaft Connections in Moderate and High Seismic Zones – ABC-UTC/UNR

Extending Accelerated Bridge Construction Practices to Bridge Rehabilitation – ABC-UTC/ISU

Innovative Steel Bridge Systems for ABC Applications – ABC-UTC/FIU

Analysis and Monitoring of Southington I-84 Bridges during Accelerated Bridge Construction – Streere Engineering Inc.

Available Resources for Consultants to Utilize ABC – ABC-UTC
Upcoming Events

7th Australian Small Bridges Conference – Melbourne
November 25-26, 2015
Sponsored by CommStrat Australia
http://www.smallbridgesconference.com

Call for Abstracts Deadline: January 30, 2015
Google: 7th Australian Small Bridges Conference
AMERICAN CONCRETE INSTITUTE
2015 EXCELLENCE IN CONCRETE CONSTRUCTION AWARDS

Open to all entries that have won at a local level through an ACI Chapter and will be submitted by the Chapter

Projects must consist of new construction completed within 36 months of the submission deadline

Call for Entries Deadline: February 15, 2015

Google: ACI 2015 Excellence in Concrete Construction Awards
Automated Procedure for Issuing Certificates of Attendance

Procedure is automated!
Please visit abc-utc.fiu.edu for other ABC-related news and events
Next Webinar

Thursday, January 22, 2015 (1:00 – 2:00 p.m. Eastern)

Featured Presentation

Detailing of ABC Bridges for Simplicity and Durability

by

Michael P. Culmo, P.E.,
Vice President of Transportation and Structures,
CME Associates, Inc., East Hartford, CT

To register, visit: www.abc-utc.fiu.edu
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