AASHTO Subcommittee on Bridges and Structures
Annual Meeting - June 16-20, 2013
I-5 - Skagit River Bridge Collapse
Temporary Bridge and Replacement Span
(How we spent our Memorial Day weekend)
I-5 - Skagit River Bridge Collapse

• The northern truss span of the I-5 bridge collapsed into the Skagit River near Mount Vernon on May 23, after an over height load struck critical steel supports, sending two vehicles into the water.

• This vital corridor carries 71,000 vehicles each day and is the only north-south interstate in Washington state.
Located about 40 miles south of the US/Canada border, the Skagit River bridge serves as a key connection for traffic and commerce between the Seattle metropolitan region and the lower mainland of British Columbia.

In 2012, about $14 billion of US-Canada trade used this bridge and around 25 million vehicle trips crossed this bridge.
Emergency Response

- Washington State Patrol incident command coordinated with WSDOT on establishing traffic detours
- Emergency Declaration and First Emergency contract started within 24 hours
- Washington State Law allows flexibility in contracting under emergency declaration
The First 72 hours

• 24 hours - Team assembled to evaluate options to restore the collapsed span and re-open I-5. FHWA approval of Emergency Relief (ER) funding
• 24 hours - Contractor selected for 30 day cost plus (force account) contract to remove debris and make repairs
• 48 hours – Options for restoring collapsed span evaluated and recommendations to WSDOT Executives and the Governor’s office. 30 day emergency contract executed
• 72 hours – Governor & Secretary of Transportation announce plan to install temporary span within 30 day and install permanent span in the fall
Removal, Repairs & Temp Span

- Removal coordinated with investigation work by NTSB.
- Inspection of remaining trusses and piers
- Repairs to damage on remaining trusses made under contract
- ACROW temporary spans ordered and pier support modifications designed.
Temporary Span

- Materials for the new temporary bridge began arriving Tuesday, May 28.
- Contractor crews place two temporary bridge sections, side by side.
- One section carries northbound traffic; the other carries southbound traffic. 11 ft lanes, 1 ft. shoulders, 40 mph speed limit
I-5 Skagit River Temporary Span

- Spans assembled and launched from north approach and jacked into place
- “Removable” pedestals design to accommodate installation of permanent span
- Opened to traffic in 27 days (June 19th)
I-5 Skagit River Temporary Span
Phase 2 - Permanent Span

• Decision to use emergency Design-Build contract with “accelerated” RFP process.

• Awarded on A+B+C = Best Value approach.
  
  A = # of hours of total closure for span placement x $660k/day
  
  B = Days past Sept 4\textsuperscript{th} x $50k

  C = Price Proposal

• Hand picked shortlist with two week proposal period from RFP advertisement to award.

• Best value award $6.9M. Notice Proceed issued June 19th to Max J Kuney/Parsons Brinkerhoff team

• Scheduled open to traffic Sept. 5\textsuperscript{th} with 12 hour total closure
Phase 2 - Permanent Span
Phase 2 - Permanent Span
I-5 - Skagit River Bridge Collapse

Questions?