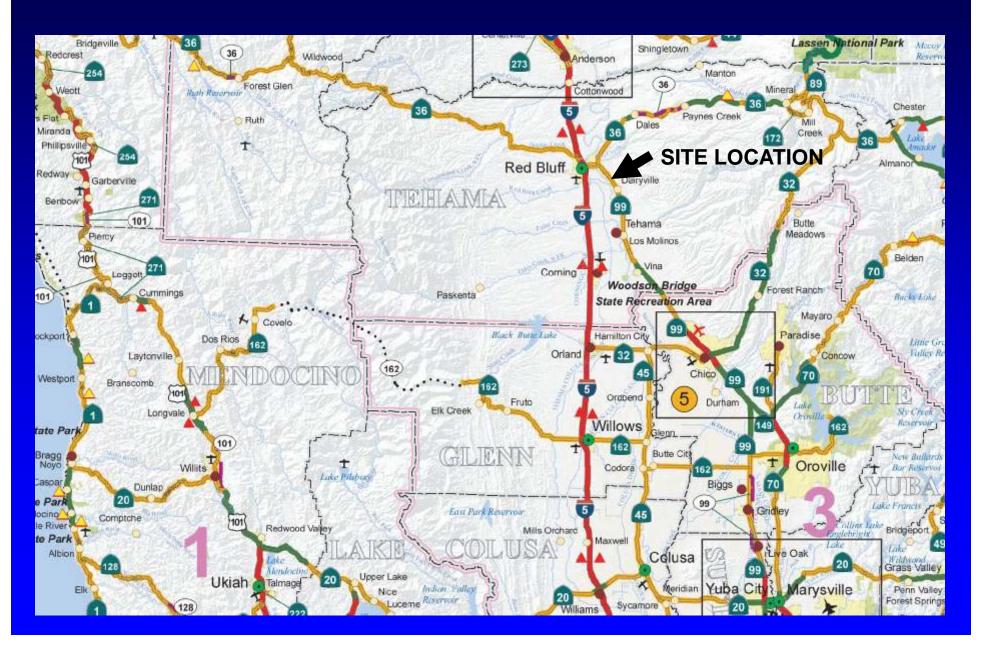
CRAIG CREEK BRIDGE REPLACEMENT

Accelerated Bridge Construction utilizing Precast P/S Adjacent Box Beams & Precast Abutments

Randip Bains, P.E.





Alternatives considered

CIP P/S 2-SPAN SLAB BRIDGE

- Limited construction window July 15th Oct 15th
- CIP construction / stage construction would have required two construction seasons.
- Maintain two-lanes of traffic for extended construction duration.
- Stage construction required wider bridge width than needed
- Increased project cost due to constructing wider structure
 - conforming roadway approaches
 - acquiring additional R/W
 - relocation of existing utilities

Alternatives considered

Adjacent Precast Prestressed Concrete Box Girder

- Minimize on-site construction duration
- Eliminate the additional bridge width needed for traffic handling
- Eliminate the need for falsework and formwork.
- Eliminate the need for additional R/W
- Construction to be completed within single construction window
- Considered full closure of route 99 versus maintaining one lane of signalized traffic control.
- Sufficient lead time needed to ensure construction during work window

