Every Day Counts in Improving Mobility: Accelerated Bridge Construction over Craig Creek

By: Christian Santos
Project Background

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THE STANDARD PLANS LIST APPLICABLE TO THIS CONTRACT IS INCLUDED IN THE NOTICE TO BIDDERS AND SPECIAL PROVISIONS (TOMP).

LOCATION MAP

LOCATION OF CONSTRUCTION (1)
SUNSET CANAL BR
Br No. 08-0010 PM 15.55

LOCATION OF CONSTRUCTION (2)
CRAIG CREEK Br
Br No. 08-0014 PM 21.13

TO BE SUPPLEMENTED BY STANDARD PLANS DATED MAY 2008

THE CONTRACTOR SHALL PRODUCE THE CLASSES OF PLANS SPECIFIED IN THE 'NOTICE TO BIDDERS'

December 14, 2008
DEPARTMENT OF TRANSPORTATION
STATE OF CALIFORNIA

ACNH-P099(528)E

02 Teh
99

50.4/15.7
20.9/21.3
1
61

02-2C1104
Project Background
Project Background
CRAIG CREEK BRIDGE  (08-0014)
Project Background

- Project Advertised: March 15, 2010
- Bids Open: April 20, 2010
- Award: August 6, 2010
- Approved: September 16, 2010
- 55 Day Delay Start
- Construction Window: July 15 to October 15
Delayed Award and Approval

- Lowest bidder unable to show Good Faith Effort in attaining UDBE goal
- Appeal process by lowest bidder
- Contract finally awarded to second lowest bidder
Options Available

- Build stage 1 in 2010 and stage 2 in 2011
- Build it as shown in plans, in 2011
- Build it in one stage by using a temporary detour with a Mabey bridge
- Foundation work performed in 2010
Now with time on our side contractor and State agreed on using the Mabey bridge option

Contractor submitted a Value Engineering Proposal
Pre-Cast members arrive on site
Other Improvements

- Change Order for a Quiet Deck construction
- Use of Shrinkage Reducing Admixture and Synthetic Macro Fiber Reinforcement to minimize cracking
- “High Performance Cure”
Still to Come

- Diamond grinding of the deck
  - Meets quiet deck spec
  - Better “rideability”
  - Closer examination of the results for the shrinkage reducing measures along with the “high performance cure”