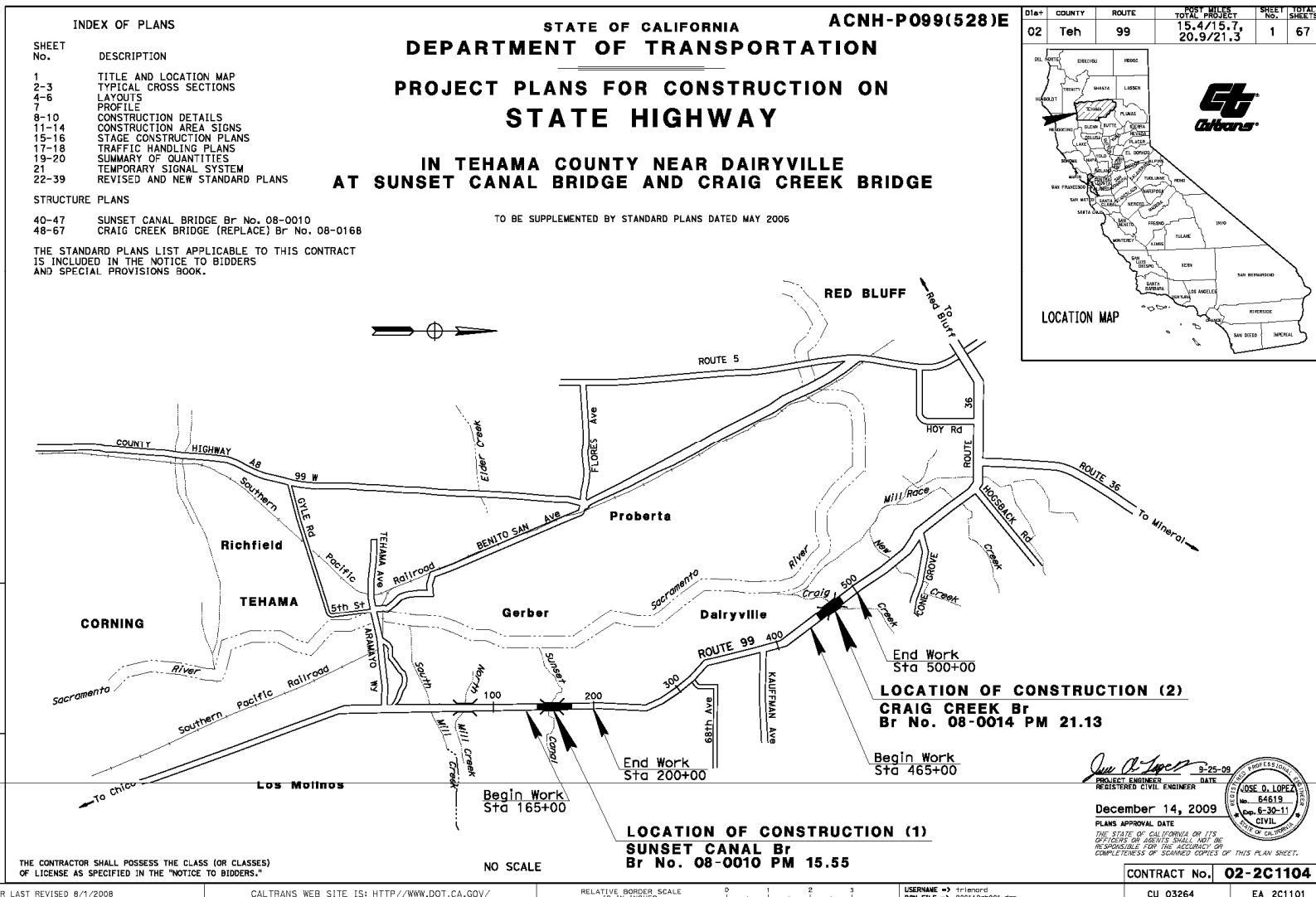




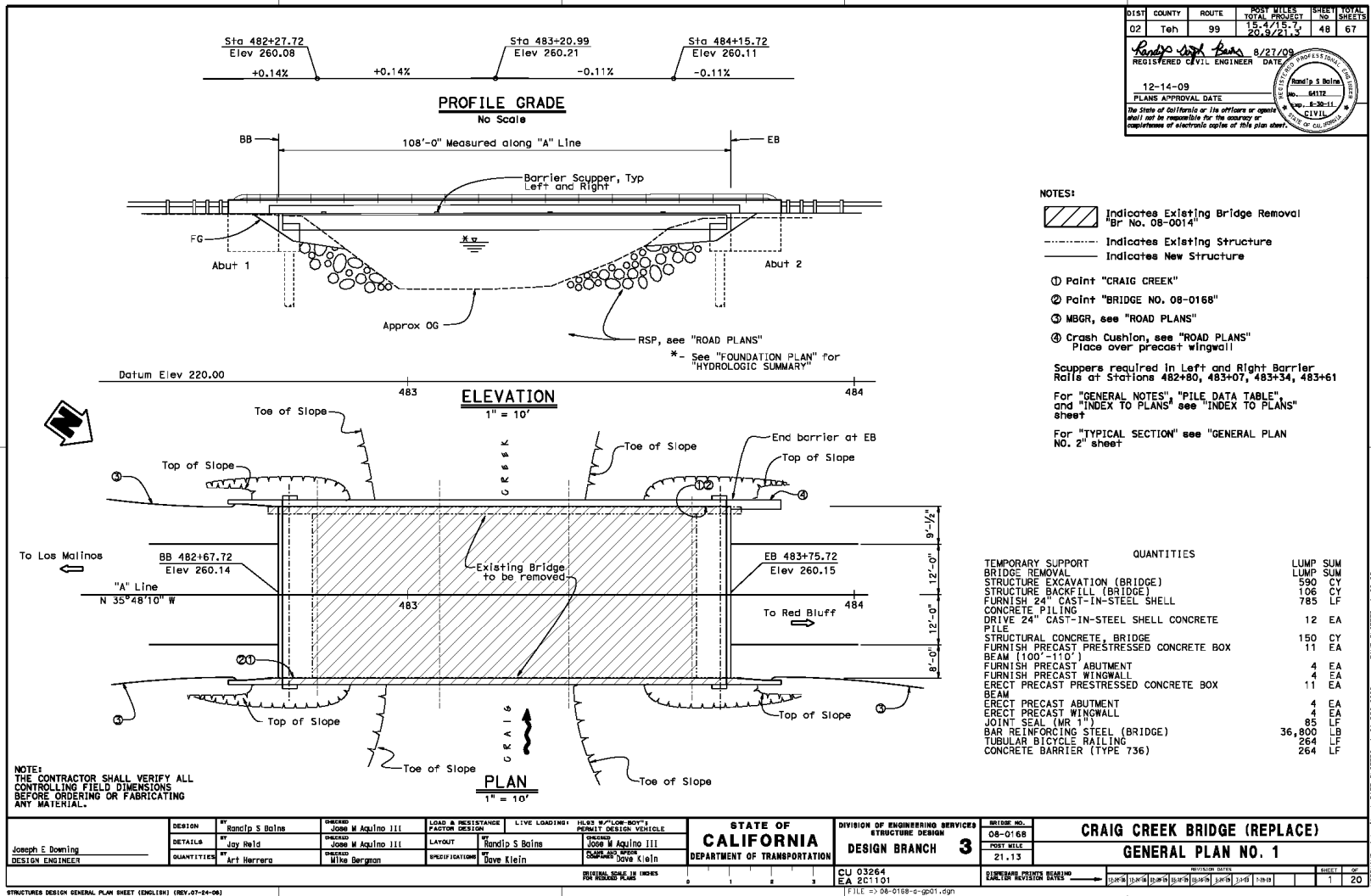
# **Every Day Counts in Improving Mobility: Accelerated Bridge Construction over Craig Creek**

By: Christian Santos

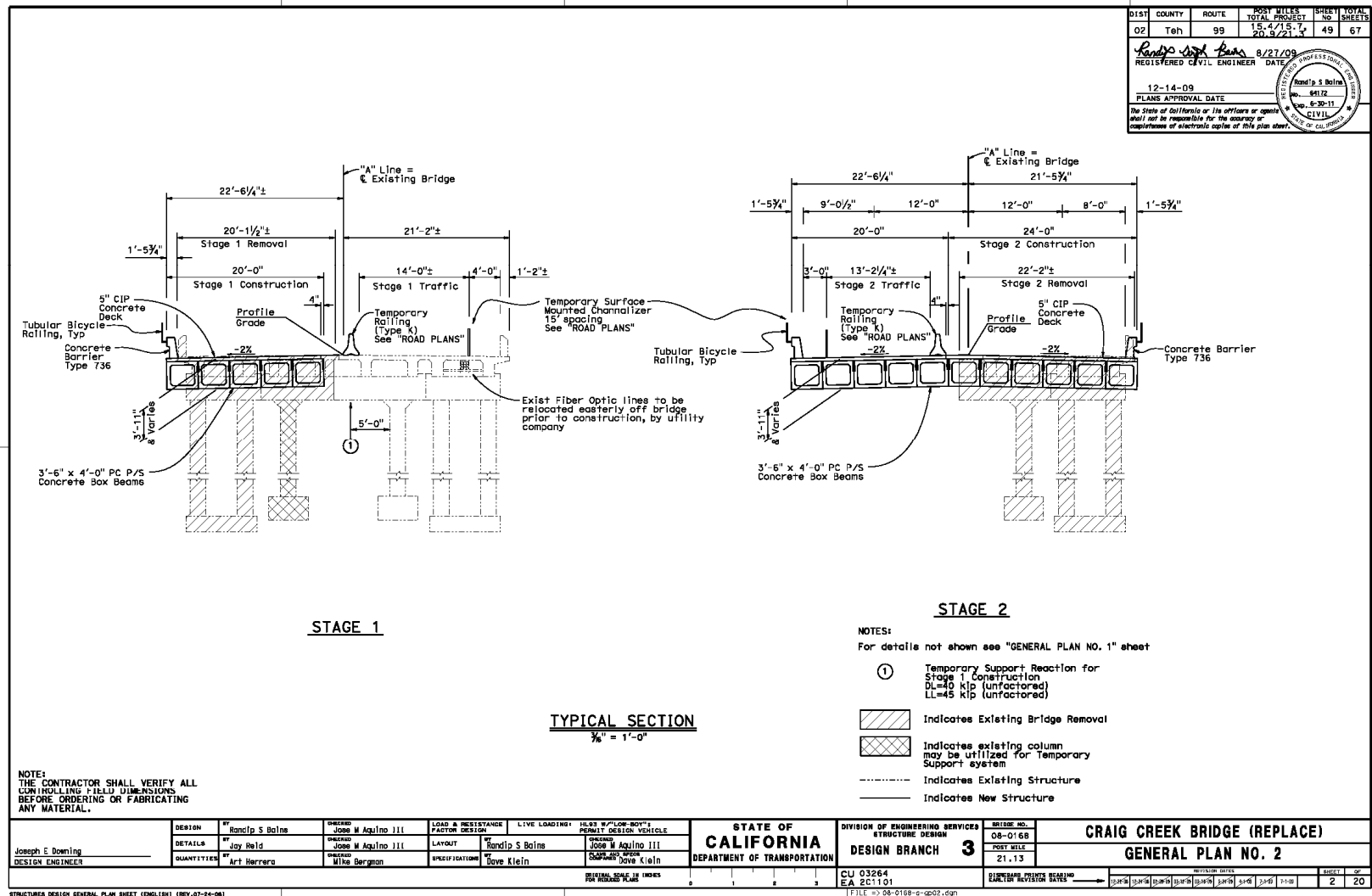
# Project Background



# 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







# Value Engineering Proposal

- ⇒ 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"