

Sheldon Bradshaw Road Intersection Construction Management







Key Issues

- Project Schedule
- Public Notification / Outreach
- Traffic Control / Detour
- Environmental Constraints
- Utility Relocation (by others)
- Compaction Around Structures



Project Stats

Award Date: 3.14.2018

Award Amount: \$4,500,269.00

Number of Working Days: 121 calendar days

First Working Day: 4.23.2018

Final Number Working Days: 121 calendar days

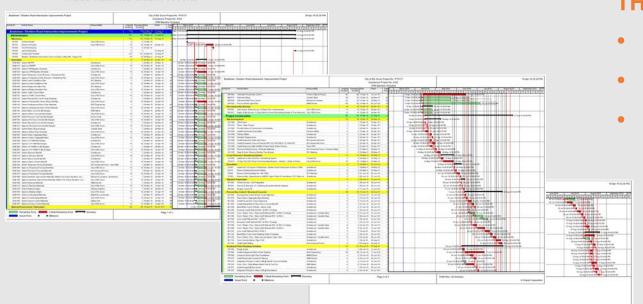
Final Contract Amount: \$4,683,347.59 (4% CCOs)

Full Closure Allowed: 05/29 – <u>08/07/2018</u>

Date Opened to Traffic: 8/06/2018



Project Schedule



BOX CULVERT CONTROLLED THE PROJECT SCHEDULE

- Approval
- Fabrication
- Placement



GRADE FOR BOX CULVERT

PLACE BOX CULVERT

FINISH GRADE/PAVE OVER BOX CULVERT

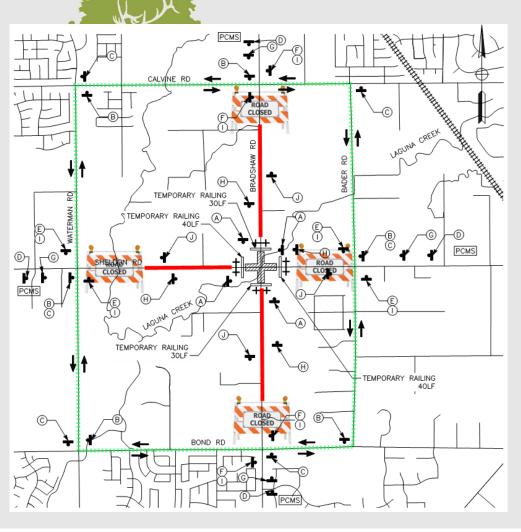
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Public Outreach



Traffic Control / Detour



ADT = 20,000 +

3.5 Mile Detour

Near highschool



Environmental Constraints

Environmental Permits

- Slight realignment the East Branch of Laguna Creek resulted in higher scrutiny from CDFW, USACE, etc..
- Face to face meetings reduced the agency review

Nesting Birds

- Many large eucalyptus trees in the area, therefore several months prior to the project during the non-nesting season, necessary trees were removed.

Giant Garter Snake

- Work occurred during the "active" season (which concides with summer break) and eliminates a \$30,000+ incidental take permit.



Utility Relocation



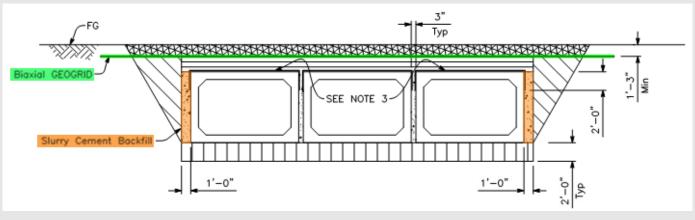
Relocation by "OTHERS" - YIKES!!

- Kinder Morgan
- Frontier
- SMUD
- COMCAST

**Issued CCO to work around utilities not moved on time



Compaction Around Structures



- Similar to compacting around manhole structures
- Requires smaller equipment such as "whacker" compactor
- Subgrade stiffness:
 - Culvert V. Roadway





















