

Wooden Bridge Demolition and Reconstruction



Former bridge that needed to be demolished

The Conejo Recreation and Park District (CRPD) is a nonprofit city government organization that maintains the parks and hiking trails in Thousand Oaks, California. They were informed that one of the bridges at the Stagecoach Inn, a landmark park located in Thousand Oaks California, was old and sagging in a way that made interfered with the flow of the creek it spanned over. A plan to demolish the current bridge was created. Utilizing ArchiCAD and Microsoft Excel a design and an estimate were developed for a new bridge that would be built in its place. This bridge would be tall enough to allow for ample room for the creek to flow beneath it. During the Winter of 2019, a team of volunteers and two CRPD Rangers demolished the old bridge, cleared and grubbed the area to allow for more water to pass underneath the new bridge, and prepared the site for the construction of the new bridge. The following day materials were procured to construct the new bridge and the bridge was constructed and erected behind the Stagecoach Inn. This paper reviews the process of bridge replacement, including the design, the demolition, and the construction.



Capture from the Design done using ArchiCAD.

Key Words: Bridge, Demolition, Construction, Design, Planning



Constructing the new bridge.



This picture displays the newly constructed bridge built behind the Stagecoach Inn located in Thousand Oaks, California.

TASK	Start	End	16-Dec-19							23-Dec-19							30	31
			M	T	W	T	F	S	S	M	T	W	T	F	S	S		
Proposed Site Preparation	27-Dec-19	28-Dec-19																
Proposed Construction	29-Dec-19	30-Dec-19																
Actual Site Preparation	17-Dec-19	17-Dec-19																
Actual Constuction	18-Dec-19	19-Dec-19																

Gantt Chart showing proposed and actual project dates.

Section	Cost
Bridge Body	\$243.74
Guardrails	\$86.41
Cross Braces	\$26.33
Rebar	\$11.82
Subtotal:	\$368.30
Taxes (7.5%)	\$27.62
Total:	\$395.92

Overview of the estimate created for the construction of the new bridge.