Sacramento Valley Conservancy Deer Creek Hills Preserve – Sloughhouse Resource Conservation Restoration Partnership Beaver Dam Analog and Post Assisted Log Structure Designs and Restoration Site Photos:

Shown below are some generalized structure designs pertinent to the planned Crevise Creek Restoration Project; these images depict channel spanning post assisted log structure designs, wickerweave beaver dam analog structure designs, representative before and after implementation photos which serve as an example of the potential outcomes of this restoration initiative, and pre-project implementation site photos taken aerially.

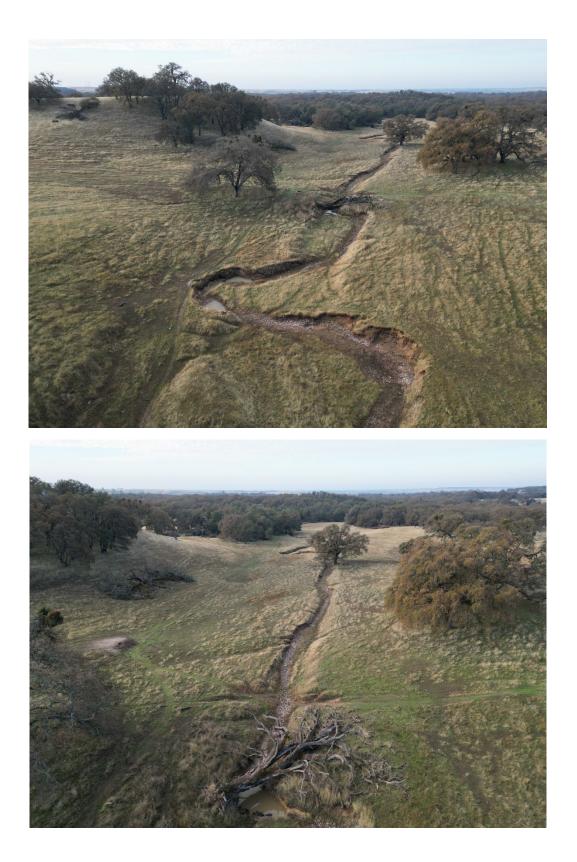
SVC plans to utilize the same or similar designs as those depicted in this document and plans to follow a restoration implementation methodology in line with NRCS and the Low-Tech Process-Based Restoration of Riverscapes Design Manual published by the Utah State University Restoration Consortium and USDA Working Lands for Wildlife. Access to this manual is linked below:

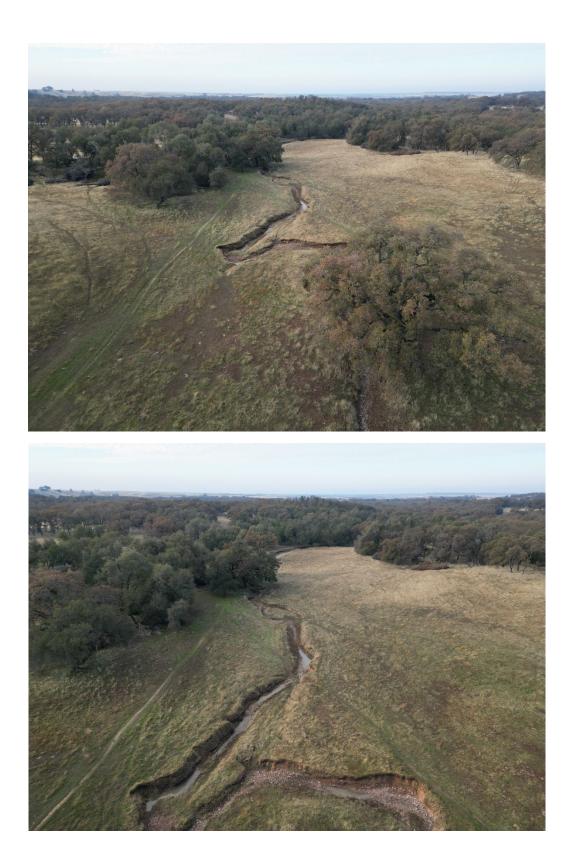
https://lowtechpbr.restoration.usu.edu/manual/



Pre-Implementation Site Photos:









Representative Structure Designs:



Figure 6 - Representative photos of the diversity of possible BDA shapes, sizes, locations, and building material. (A) post-assisted and willow weave (B) postless, sage and juniper (C) postless willow, using existing willow for stability (D) postless, juniper (E) post-assisted and juniper (F) postless willow and juniper (G) postless juniper (H) postless sage.



Figure 5 - PALS can be built in a range of shapes, sizes and in different channel locations. (A) bank-attached, (B) mid-channel, (C) channelspanning, (D) channel-spanning, (F) mid-channel, (F) channel-spanning, (G) bank-attached, and (H) channel-spanning

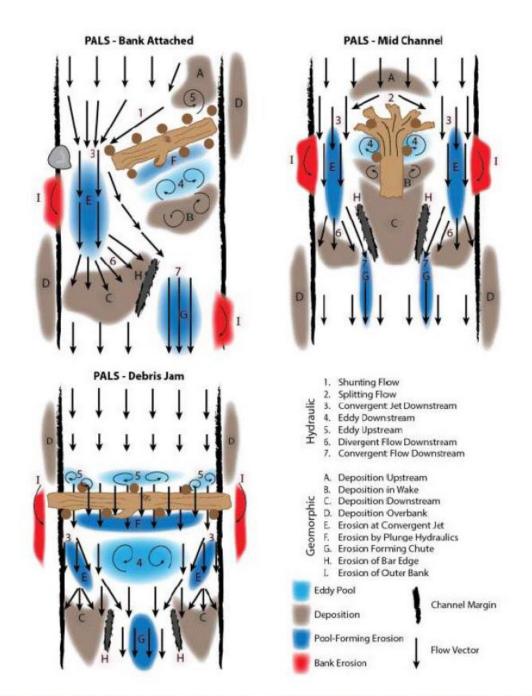


Figure 10 - Hypothesized hydraulic and geomorphic responses associated with bank-attached, mid-channel, and debris jam post-assisted log structures (PALS) from Figure 3.5 from Camp (2015a). Note: what is labeled as 'debris-jam' is referred to in this chapter as 'channel-spanning'.

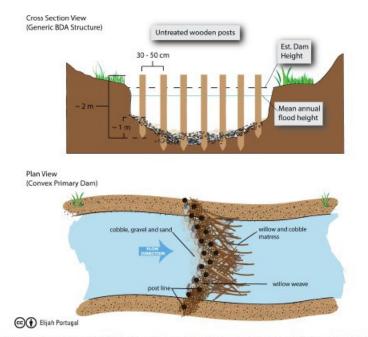


Figure 21 – Conceptual illustration of BDAs incorporating a downstream "mattress" and double post line. In practice BDAs can be built with or without posts and using a range of natural materials. Illustration credit: Elijah Portugal.

