

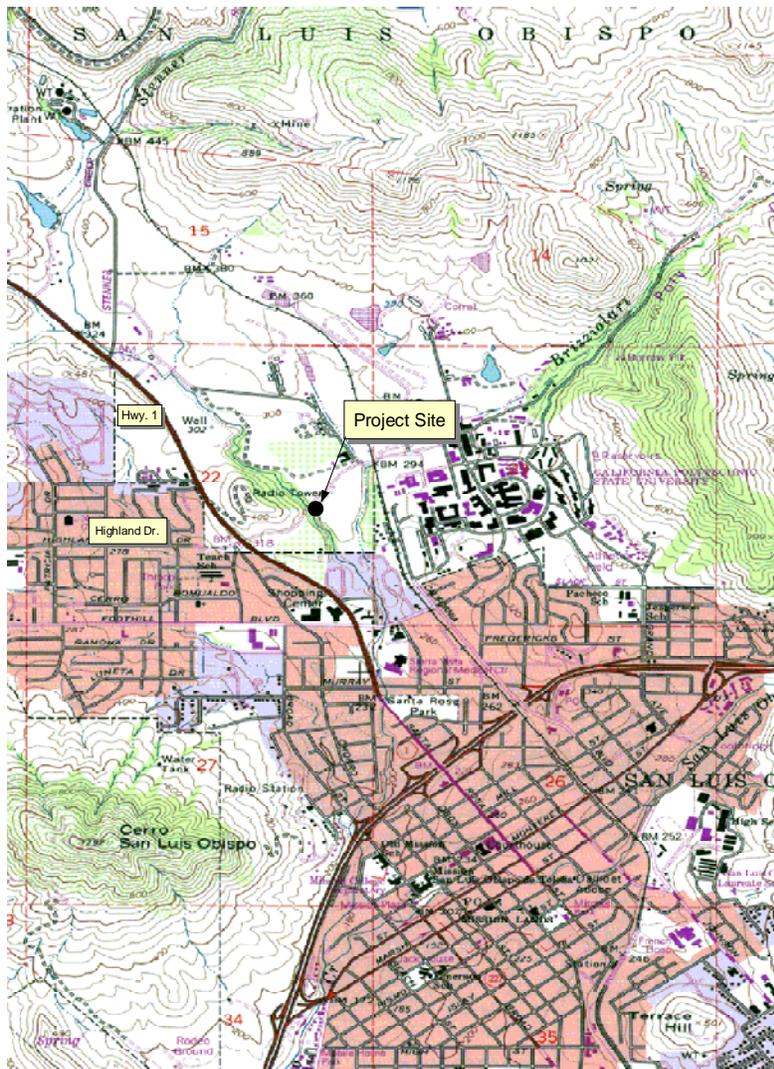
## Attachment A – Project description

### **Project Applicant Information**

Land Conservancy of San Luis Obispo County  
P.O. Box 12206  
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(805)544-9096 FAX (805)544-5122  
Contact: Brian B. Stark, Deputy Director

### **Project Location**

The project is located on Stenner Creek, a tributary to San Luis Obispo Creek, at the downstream side of the Highland Dr. Bridge. See the map below.



**Figure #1 – Project Site Location (San Luis Obispo Quadrangle)**

## **Project Description**

The project purpose is to repair a fish passage project at the Highland Drive Bridge culvert. In 2001, 3 boulder step pool structures were installed to treat the perched culvert and improve fish passage. In the subsequent seasons, the stream has undercut the adjacent road / apron rendering the fish passage project ineffective.

The project plan is to install a temporary form and pour concrete under the existing apron / road to seal the flank of the structure. This will make water flow over the structure and function for improved fish passage.

**Requested Permits:** NWP #27

## **Project Details**

Access to the work site is via an equipment road that crosses under the Highland Dr. Bridge. This is paved and will be above the water during the time of construction. All work, therefore, can be conducted from this road. No equipment will enter the channel.

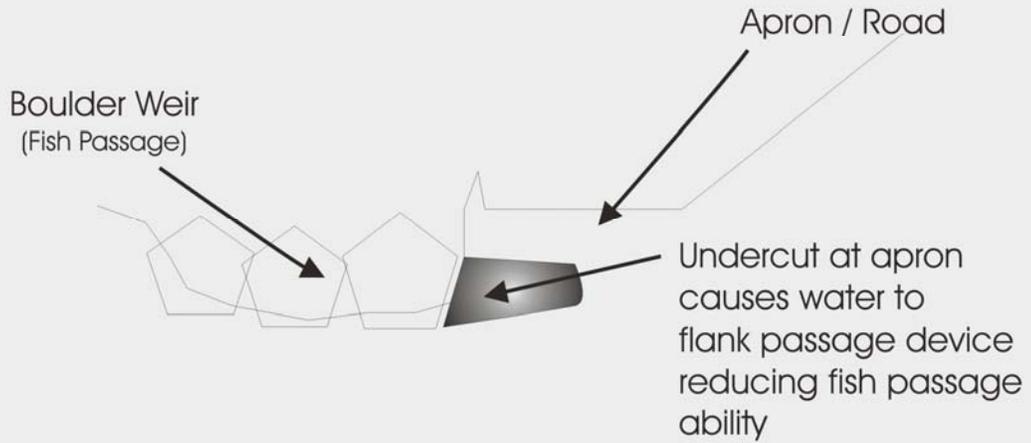
The work site is anticipated to be dry during the construction period, so no water diversion is proposed.

Some stream bed gravel will be moved to install the forms. This may be done by hand or by a small backhoe operating from the road. Forms will be built along the road edge to keep concrete fill from spilling into the channel. Where possible, forms will extend under the road to leave some undercut habitat for steelhead trout.

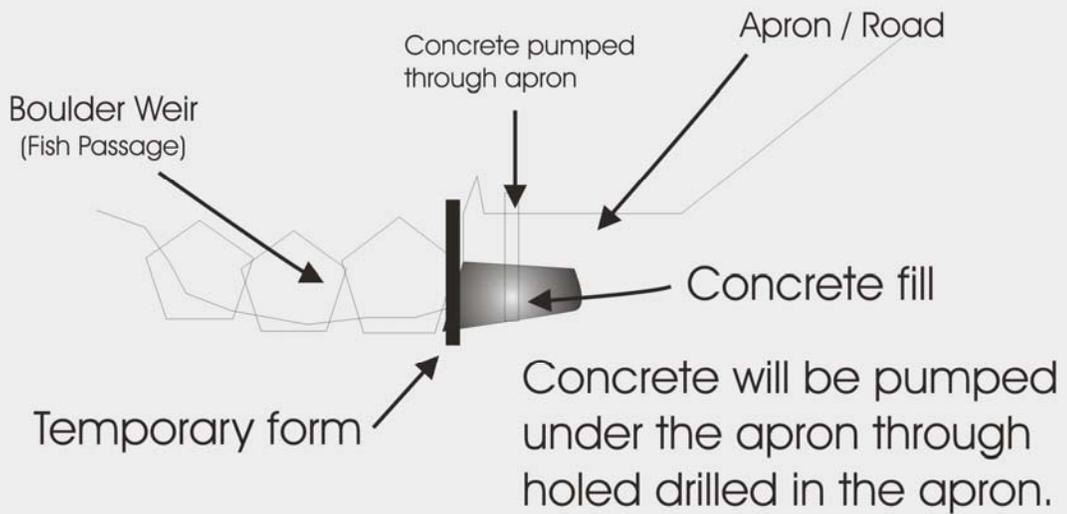
In addition to the concrete fill, large boulders will be installed at the downstream end of the road apron to prevent future undercutting at that location.

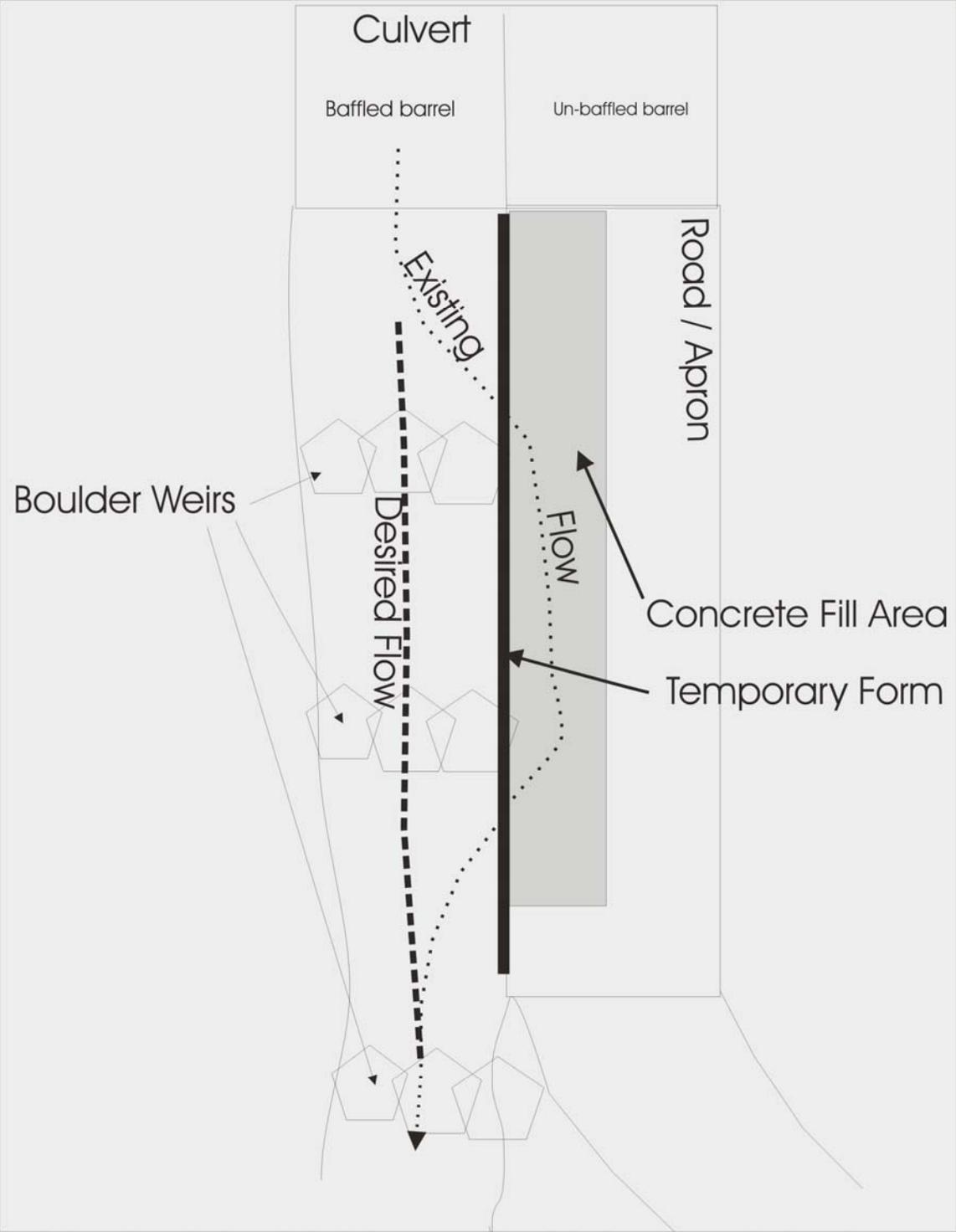
The figures below illustrate the basic design of the sealing project. Approximately 5 cubic yards of concrete will be placed under the road.

## Existing Conditions



## Project Plan





## **Special Status Species Considerations:**

### *California Red-legged Frog (Rana aurora draytonii).*

Habitat on and near the site is not ideal for the red-legged frog. Still, some marginal habitat may contain frogs. The following measures will be undertaken to assure protection of California Red-legged Frogs and their habitat.

1. A qualified biologist will perform a red-legged frog survey within 2-weeks prior to project construction and advise work crews based on the results of the survey.
2. If red-legged frogs are found on the project site during the pre-construction survey, a qualified biologist will be present during construction to assure protection of frogs. The biologist will have authority to stop project work if a red-legged frog is observed. If observed, red-legged frogs will be moved from the site in accordance with guidance provided by the USFWS in their biological opinion.
3. The construction area will be surveyed daily during construction prior to work to assure that there are no frogs in the work area.
4. Construction within the channel will occur when the area is dry.
5. The site will be kept free from garbage and / or food waste to prevent attraction of predators.
6. Rock placement will take place from the concrete apron using a backhoe, no machinery will enter the active stream channel.

### *Steelhead Trout (Oncorhynchus mykiss)*

Steelhead trout are known to occupy the work area. The following measures are planned to prevent project impacts to steelhead trout.

1. Installation during the summer when the site is expected to be dry.

In addition to the measures listed above, oil absorbent materials will be on site in the event of a hydraulic fluid leak. Any leaks would be contained within the isolation area and would be promptly cleaned up if present. All vehicle and equipment re-fueling will be done above the top of the bank.