



Exhibit A

General Scope of Work

North Dayton Area Drainage Master Plan - Scoping Project

Background:

This project was identified to expand part of the [Dayton Valley Area Drainage Master Plan \(DVADMP\)](#) completed by Carson Water Subconservancy District (CWSD) in August 2019.

The completed DVADMP outlined several potential flood mitigation structures that could address the hazard flooding in the study area outlined below. Residential and commercial areas of the Dayton Valley can experience flash floods year-round. There have been significant flood events in recent years, predominantly 2017 and 2023 when State of Emergencies were declared for northern Nevada. The DVADMP was completed to understand flood characteristics and extents and offer potential mitigation alternatives to reduce flood damage and loss in Storey and Lyon counties

Study Area: The project area is located on the southeastern slopes of the Virginia and Flowery Ranges, proximal to the border of Storey and Lyon counties, near the intersection of Six Mile Canyon and Lincoln Highway (U.S. 50). The adjacent foothills of the Flowery Range drain into the project area, creating flooding conditions in the Mark Twain residential area and downstream areas in Lyon County.

This study area includes both counties, but flash floods originate in Storey County. However, the communities in both counties of North Dayton Valley are affected by flash floods and will benefit by drainage improvements. Highway 50 is a critical transportation corridor that is in this study area and is closed when flash floods sweep through the area. The Engineer's cost of the project is approximately \$121,000.

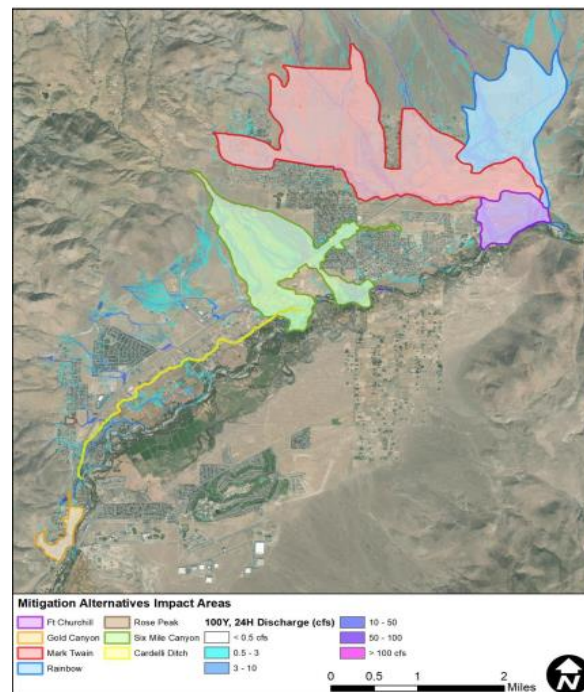


Figure 1: Mitigation Alternatives Impact Areas.

This scoping project will focus on the outlined mitigation structures that were identified in the Mark Twain, Rainbow, and Six-Mile canyon areas, see Figure 1 for area designations.

The proposed infrastructure from the DVADMP is visible in Figure 2 below.

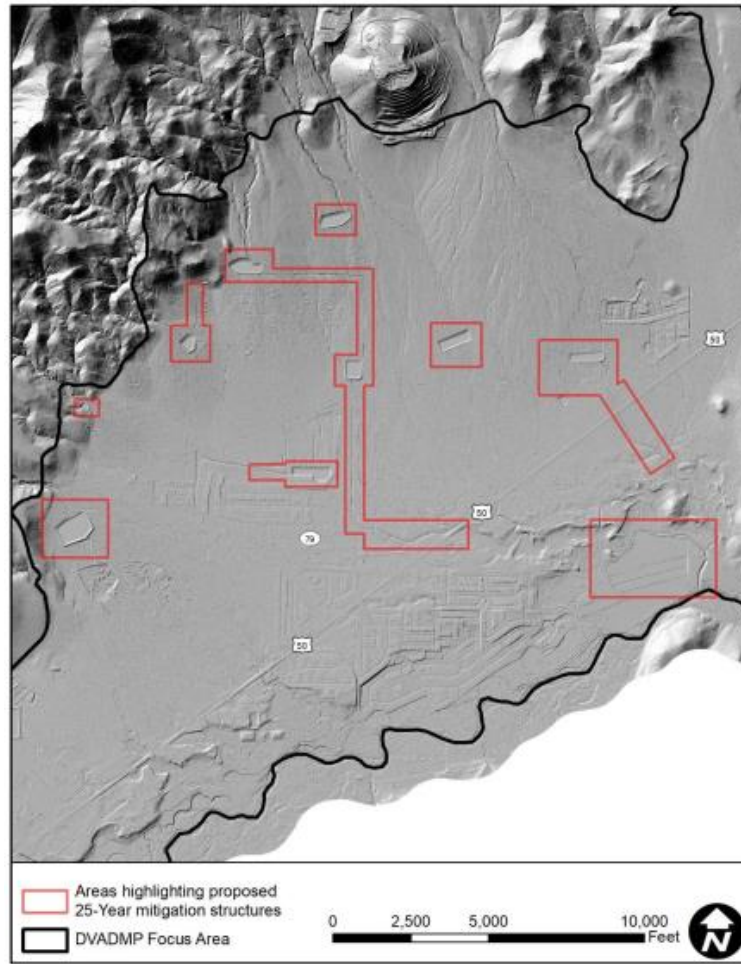


Figure 2: Proposed mitigation structures in focus area.

Objectives:

The objective of this project is to determine if smaller or portions of projects identified in the DVADMP will pass FEMA benefit cost analysis (BCA) and thus qualify for federal funding for construction. This project will evaluate potential projects, refine plans of the original cost estimate, and conduct environmental clearance activities to advance proposed designs. This activity includes assisting the project team with community outreach.

The final deliverable of the project will be a Scoping Design Report.

Scope:

The overall scope of the intended project is found below in the related tasks. Tasks will follow under the umbrella of specific milestones. It is expected that the completion of this project will be completed before October 1, 2026.

Tasks:

1. Project Management

The Consultant Team will submit monthly invoicing and process quarterly reports.

2. Hydrology and Hydraulic Analysis

Utilize the hydrology and hydraulic analyses conducted as part of the Dayton Valley Area Drainage Master Plan.

3. Environmental Assessment

This task will complete an environmental and cultural assessment of the project area to identify regulatory compliance and corresponding cost. The FEMA environmental and historic preservation EHP checklist (Exhibit B) will be utilized to determine compliance costs for construction of the proposed infrastructure. It is anticipated that CWSD staff will conduct most of this review. The hired contractor will assist with this part of the project.

4. Preliminary Plan and Cost Estimate

This task will take the results of the hydrology and hydraulics analyses and environmental assessment to refine construction documents and cost estimates to construct mitigation structures. Plans will be developed to an approximate 60%-90% level and include annual maintenance cost estimates.

5. Benefit Cost Analysis

The Benefit Cost Analysis (BCA) will be developed that utilizes all components found as a part of the hydrology and hydraulics analyses, environmental assessment, preliminary plan and cost estimate. The BCA will be intended to identify projects that meet FEMA's threshold of greater than one. It is anticipated that CWSD staff will conduct most of this review. The hired contractor will assist with this part of the project.

6. Scoping Design Report

Compile all calculations, assessments, analyses, and plan development into a Scoping Design Report (SDR). The SDR will be used to advance the project to final design in the future once funding for construction is obtained. The scoping and design report shall include a variety of approaches, such as prioritization or phasing, that the project team identifies to meet the county's needs.

7. Outreach

Conduct public and stakeholder outreach to ensure community buy-in of the proposed project. CWSD staff will take the lead on this task. The contractor will assist staff with displays and materials related to aspects of project presentation. Public events requirements are explained below.

Public Events Requirement:

Informational Public Meetings. At the study's conclusion, the Consultant will lead the public meeting by presenting project information and results. The meetings will be held in Storey County. The meeting may be conducted as both in-person and virtual.

Board Meetings. The Consultant Team will give three presentations at the end of the study. One to Carson Water Subconservancy District Board, Storey County Commissioners, and to Lyon County Commissioners.