



STOREY COUNTY COMMISSIONERS' OFFICE

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Jay Carmona, Chair
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Capital Improvement Update

Dear Mark Twain Residents:

Storey County wishes to update you on progress and plans related to local and regional drainage and flood control systems in the Mark Twain area. Thank you for your patience in work that has been completed thus far in accordance with engineering, funding, and available resources. We appreciate the active involvement from area residents during the many public workshops that occurred over the past several years. Future opportunities for public review and comments will be provided.

This list is not exhaustive, and it is subject to change in accordance with conditions and available resources. Accomplishments and planned tasks to date include the following.

- 1. 2018-2019 Storey County worked with the Carson Water Subconservancy District (CWSD) and Lyon County to develop the Dayton Valley Area Master Drainage Plan. The study models flood events and impacts, and mitigation in the north Dayton area, including Storey County.**
 - a. The plan is based on engineered modeling, field observations, and residents' comments.
 - b. Modeling is done to 15% design thus far.
 - c. Drainage improvements addressing regional flooding issues are estimated to be \$10 million.
 - d. Improvements require alignment with Lyon County downstream needs.
 - e. Upstream detention requires coordination with the Bureau of Land Management (BLM) and private property owners to secure land or easements to construct detention basins.
- 2. 2020-2022 Public Works addressed local flooding concerns in addition to the Dayton Valley Area Master Drainage Plan improvements.**
 - a. The county installed approximately 30 driveway and street crossing culverts along LaFond, Martin and Sam Clemens.
 - 1,420 feet of 18" culvert pipe installed.
 - 200 feet of 36" culvert pipe installed.
 - \$45,000 estimated cost.
 - b. Culvert work included excavation and grading of affected drainages and shoulders.
 - c. The county continues to work with CWSD and Lyon County on seeking grant funding to develop a Benefit Cost Analysis. A Benefit Cost Analysis document is necessary to apply for federal grants.

3. 2023–2024 Public Works continues working on both local and regional drainage improvements.

- a. Prospector, Martin, and Sam Clemens drainages will be engineered to a 100% design.
 - \$160,000 was approved by the County Commission to engineer flood improvements and provided construction drawings to 30% design. The design will determine culvert size, drainage depth and width, riprap, flows, etc.
 - Roughly \$200,000 more is needed for 100% design for construction bidding.
 - Construction costs are likely to be \$1-2 million.
 - The County Commission will need to approve funds for the actual work.
 - The project will go to public bid.
- b. Edith, Tom Sawyer, and Huckleberry repaving and drainage improvements are finished.

4. 2024–2025 and beyond. The Planning Department continues to work with the CWSD and Lyon County to do the following.

- a. Funding will be secured to hire a consultant for a Benefit Cost Analysis. This is necessary to qualify for federal funding.
- b. Utilizing Benefit Cost Analysis, applications will be filed for federal grant funding to assist in constructing regional drainage improvements, including detention facilities.
- c. A Federal Lands Bill has been submitted by the county to acquire BLM property upstream of the Mark Twain Estates.
- d. The county will seek cooperation from residents for easements to preserve drainages and expand detention basins.
- e. \$10 million is the estimated amount needed for these projects.

5. 2024-2025 and beyond. Public Works continues to address improvements and maintenance.

- a. Public Works will continue roadside channel clearing either yearly or as impacted by storm events.
- b. Road pavement maintenance will continue.
- c. The County Commission may consider directing staff to expedite long-term improvements including additional project phases reachable with budget funds, engineering load, and Lyon County cooperation.
- d. Assessment of changes to upstream drainage channels and adapt to any modifications storm events may have on the alluvial fan above the Mark Twain neighborhood.

6. 2024-2025 Capital Improvement Plan Updates

- a. The county Capital Improvement Plan is being reviewed to add other drainage and road improvements in Mark Twain, and shorten the time needed to start and complete them.
- b. Gigafactory tax abatements are scheduled to expire June 30, 2024. A portion of these funds will be designated to expedite these projects.

For more information, please reach the Storey County Planning Department at 775.847.1144 or planning@storeycounty.org.

Mark Twain Estates Drainage Master Plan 2018

Mark Twain Estates Overall



