Ivins City
Engineering Report to City Council
January 8, 2015

NRCS Mitigation Main Street Outfall: The project was re-grouted on January 5th as requested and the project site was finished stabilized on January 6th.

NRCS Repair of Culverts in Tuacahn Wash Service Road: These culverts have been repaired and were completed as of December 17th.

Red Mountain Dams Rehabilitation Evaluation: This project has been held up now for months on what appears to be a technical problem. The NRCS headquarters has not been willing to waive a standard on minimum pipe sizes for dams. Our dams have 15-inch diameter pipes for outlets and NRCS carries a standard of 30-inch diameter pipes. Despite having technical analysis showing that the 15-inch diameter pipes are adequate, so far the standard has not yet been waived. This is holding up a release of the Draft Environmental Assessment. We thought we would have already released the document at this point and there was even a public open house scheduled for December 15th, but it had to be cancelled until we can get the authorization to proceed per the current plan. Best case scenario would be 6 months before we can start preparing the design drawings.

Pumping Station Upgrades: The Taviawk Pumping Station is operating at the limits of its capabilities and needs to be upgraded this winter. The Tuacahn Pumping Station needs a redundant pump. Bids have been requested to enable pre-purchase of the pumping equipment.

Taviawk Tank Overcoat: Last winter, the Taviawk Tank was recoated on the interior. We were lacking enough budget to complete the overcoat that is needed. Staff has solicited bids and is requesting approval of the expenditure from the City Council.

Master Planning: Working on RFPs for irrigation and sewer master plan.

Storm Drain Master Plan: Bowen Collins & Associates has been awarded the work to complete the master plan. The kickoff meeting has been held and they have started the preliminary work of compiling the needed data.

Tortoise Fencing/Sediment Removals: Bids have been received and the City will start installing tortoise fencing on Dam 5 and 6 as per agreement with Washington County soon. Also, the City sent out a request for contractors/developers to remove sediments from detention facilities at no cost, the response was large enough that the City has been negotiating for compensation for access to the sediments. Some sediment removal has already occurred from Dam 3.

City Wide Drainage Improvements: As a result of recent flooding staff has been working on the following projects as a means to make some improvement to drainage systems.

- Add inlets at 500 East Center Street – done
- Tie together storm drain pipelines at 200 North – done
- Construct berm at 550 West Center Street – done

- Extend curb and gutter down west side of 100 West past Best home – seeking bids
- Add inlets at 400 South Street at approximately 130 West – to be completed by Public Works crew when available.
- Repair berm/ditch on north side of Vermilion Cliffs in the Reserve – To be completed in January.
- Remove sediments and repair outlet on Tuacahn Wash Detention Dam – To be completed in January
- Adding inlets to east side of Wintook Drive (shared cost between HOA and adjacent lot owner) – Done
- Adding inlets to west side of Taviawk Drive (shared cost between HOA and adjacent lot owners) – Done
- Kayenta Debris Basins on Coyote Gulch – request for funding submitted to NRCS
- Improve inlet efficiency at 600 West Center Street – Terry Marten has indicated that Kayenta is willing to provide temporary detention at 100 N 600 W. We believe that the 48 inch storm drain pipeline is not filling to capacity at 600 W Center Street and that we could extend a 36-inch pipeline to the temporary detention basin that we could remove a significant amount of flood water from the drainage system and discharge it to the Kayenta Wash. Project costs, however, could be significant (~$120,000), and funding sources are unknown at this point.
- Improve inlet efficiency at 450 North 400 West (and 600 West) – Looking at this area to see if more water can be diverted to the Kayenta Wash in the existing 24-inch pipeline in 450 North.
- Upsize culverts at Highway 91 / Kayenta Wash Crossing – working on a design with NRCS.
- 500 E Center Street Flood Retention Wall – construct wall on Center Street to divert water to Puerto Drive rather than wash behind homes. City is working on a design with an intent to construct this winter.
- 400 E Storm Drain Extension from Center St to 200 N – City is looking to extend the storm drain 1200 feet to reduce erosion in the existing channel from runoff by the upstream developments.
- 200 North Berm at 400 West – Property owner Val Walton has indicated that he would be willing to construct a berm to cut off storm runoff that is passing through Tenaya Sands and then dedicate the remaining part of 200 North Street and the City would then take over maintenance of the berm.
- Taviawk Diversions to Kayenta Wash – Kayenta Developer is working with City to identify opportunities to divert water to the Kayenta Wash through the Kwavasa Drive cut. This requires a SITLA drainage easement which Kayenta is working to acquire. Kayenta is also considering providing an additional detention basin not previously considered.



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Charles Gillette P.E., City Engineer Date