

AGENDA ITEM #: _____

DATE: March 2, 2020

CAR #: 2020-6914



CITY COUNCIL ACTION REPORT

SUBJECT: Approve Budget Transfer for Bullard Wash Restoration Work

STAFF PRESENTER(S): Sumeet Mohan, Deputy Director of Engineering

OTHER PRESENTER(S): N/A

Summary: Approval of this budget transfer will authorize work that is necessary to restore areas within the Bullard Wash Phase 1 Park to its condition prior to the emergency repair work completed in December.

Recommendation:

Approve a budget transfer which uses \$145,000 of savings from the Van Buren Street improvement project (Sarival to Estrella) for the Bullard Wash Restoration work.

Fiscal Impact:

The Bullard Wash Emergency Remediation Project budget will be increased by \$145,000 to complete the recommended restoration work. The Van Buren Street Project (Sarival to Estrella) is fully complete and reflects a budget savings of \$293,500 in one time general funds, of this amount \$119,900 has been allocated to the Western Avenue CIP project leaving a balance of \$173,600. It is recommended that \$145,000 of the Van Buren Street project savings be transferred to pay for the Bullard Wash restoration work.

Background and Previous Actions

Beginning May 2019, the city has seen constant and increased irrigation flows. Due to the flows, the city has been unable to maintain the turfed area of the channel which has resulted in overgrowth causing pooled irrigation water in various areas in Phase 1. In addition to the flows in the wash area, the city observed water flowing in the opposite direction of flow in one of the manholes in the 24" pipe. The city brought on a contractor to plug and video the line to determine the conditions in the pipe. The results showed that the pipe had numerous deficiencies to include mud, debris, roots, grasses and a collapsed section causing 80% obstruction of flows.

Staff Analysis

In August 2019, the City hired Hunter Contracting to install an above-ground temporary 24" HDPE by-pass pipe. The pipe was used to divert the flows from the existing 24" tailwater conveyance

pipe, for a length of approximately 6,000'. The by-pass pipe was used to reroute flows to allow the contractor to dry out, clean and repair the existing pipe.

In September 2019, the City Council authorized staff to move forward with the emergency remediation efforts and construction work within the Bullard Wash Phase 1 Park and approved budget transfers of up to \$695,000.

Emergency repair work included:

- Repair of the defects in the 24" pipe at two locations
- Removal of obstructions caused by root intrusions along the whole 6,000' of pipe
- Cleaning the inverted siphon structure under Indian School Rd.
- Upsizing the inlet structure south of Camelback Rd per original design plans
- Construction of a concrete curb on the north edge of the low flow channel
- Cleaning large volumes of debris, mud and vegetation overgrowth in the low flow channel and the two walkways crossing the wash

Active construction work was completed in December 2019, and has normalized the storm water and irrigation tailwater conveyance system within the Bullard Wash Phase 1 Park.

Additional funds are needed to pay for the following items:

- Installation of two one-way valves in the 24" pipe
- Removal of the remaining (and new) debris from the low-flow channel and two walkways crossing the wash
- Removal of grass ruts left by the temporary bypass pipes
- Cleaning of box culverts at Camelback and Indian School Roads
- Payment to the contractor for the unforeseen costs incurred due to unexpected rains
- Installation of some interim measures to prevent the debris from clogging the three inlet basins that allow the tailwaters to enter the 24" pipe

The additional work requested will restore the park to its pre-flooding conditions, mitigate the risk of future flooding, and improve aesthetics. Staff is continuing to monitor the flows associated with this project and the surrounding areas and will keep Council updated if other repairs become necessary.

Attachments

None