

Drainage Update

1. Powers Boulevard at Barnes
2. LOMR for Fountain Creek
3. Patty Jewett Natural Channel
4. 19th and Dale Water Quality upgrade
5. Shook's Run Wall

Powers Boulevard at Barnes

- Powers is a State Highway; however, City responsible for drainage
- The bottom of the existing 78-inch corrugated metal pipe under Powers is rusting out
- The pipe was installed when Powers was constructed, approximately 30-years ago

Powers Boulevard at Barnes

- We will slip line a 66-inch plastic pipe within the existing 78-inch pipe
- Project is out to bid. Expect construction to be done in April, 2015

Powers Boulevard at Barnes

Existing bottom is rusting out

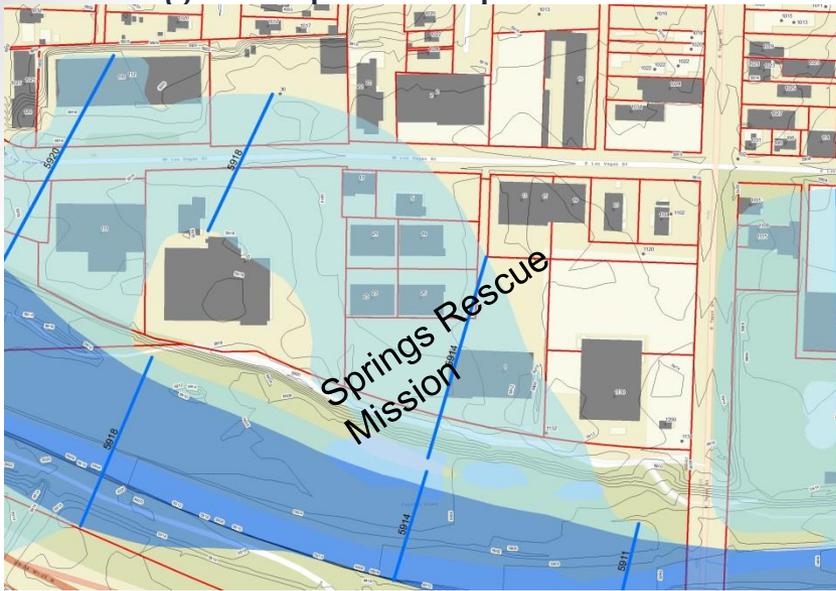


LOMR for Fountain Creek



- Springs Rescue Mission wants to build Day Center.
- New floodplain mapping has not been adopted by FEMA
- Two years out for FEMA adoption
- Solution - LOMR

Existing Floodplain Map



- Cost for LOMR is \$15,000
- For \$30,000 a LOMR can be done from Manitou to Circle Drive
- Remove all or portions of over 400-properties from floodplain

Revised Floodplain Map



Patty Jewett Natural Channel

- Collaborative effort between the Golf Course, Parks Department and City Stormwater Engineering
- New natural channel will be resilient & sustainable.
- 850 linear feet of failed trapezoidal concrete channel to be removed and replaced with a natural channel
- The new channel will beautify the entrance to the third oldest Golf Club in the United States.

Patty Jewett Natural Channel



Existing failed concrete trapezoidal channel

Patty Jewett Natural Channel



Patty Jewett Natural Channel



Patty Jewett Natural Channel



We are looking at a natural, aesthetically pleasing channel.

19th & Dale Water Quality addition

- Existing detention pond built in 1970
- Modify detention pond to include Water Quality
- Include installation of cleanable sedimentation basin
- Install micropool
- Total cost - \$400,000

19th & Dale Water Quality Pond



New cleanable sediment basin

19th & Dale Water Quality Pond

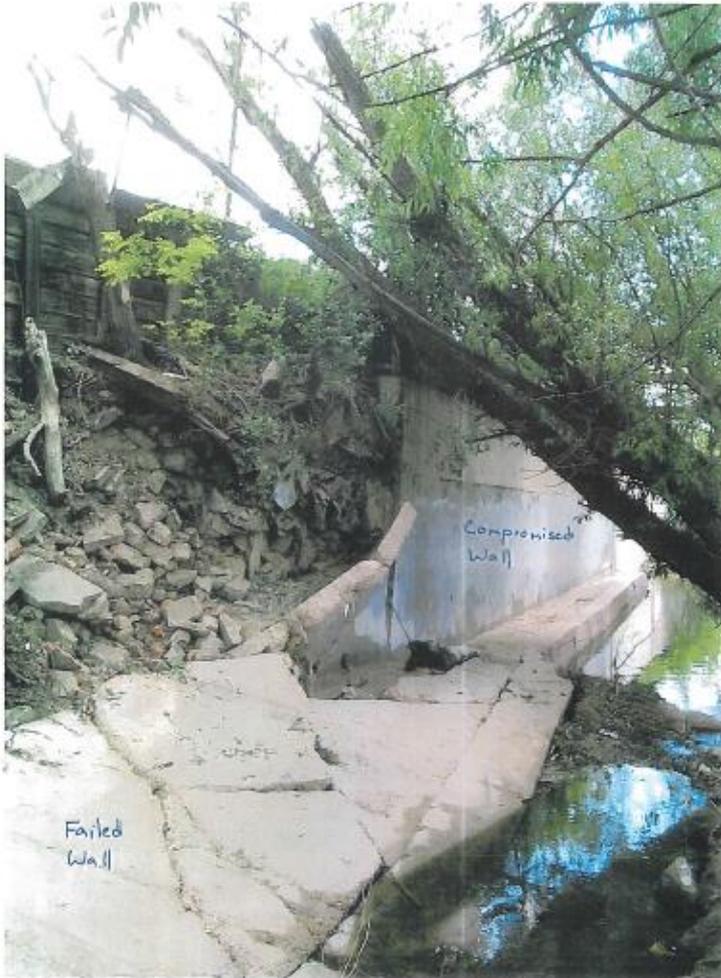


Addition of micropool

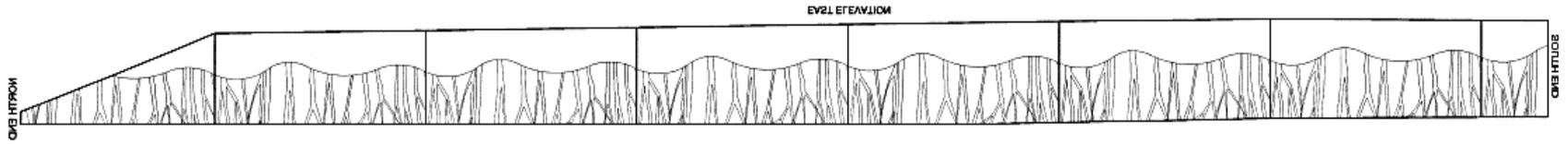
Shooks Run Wall

- September 2013 Floods damaged existing wall along Shooks Run between Kiowa and Bijou
- City Stormwater Engineering hired Thomas & Thomas to lead a robust public process to design a replacement wall
- Neighbors settled on channel relocation and architectural design of new wall
- City in process of bidding out channel modifications and new architectural wall
- The estimated cost is \$450,000
- The estimated completion date is May 2015

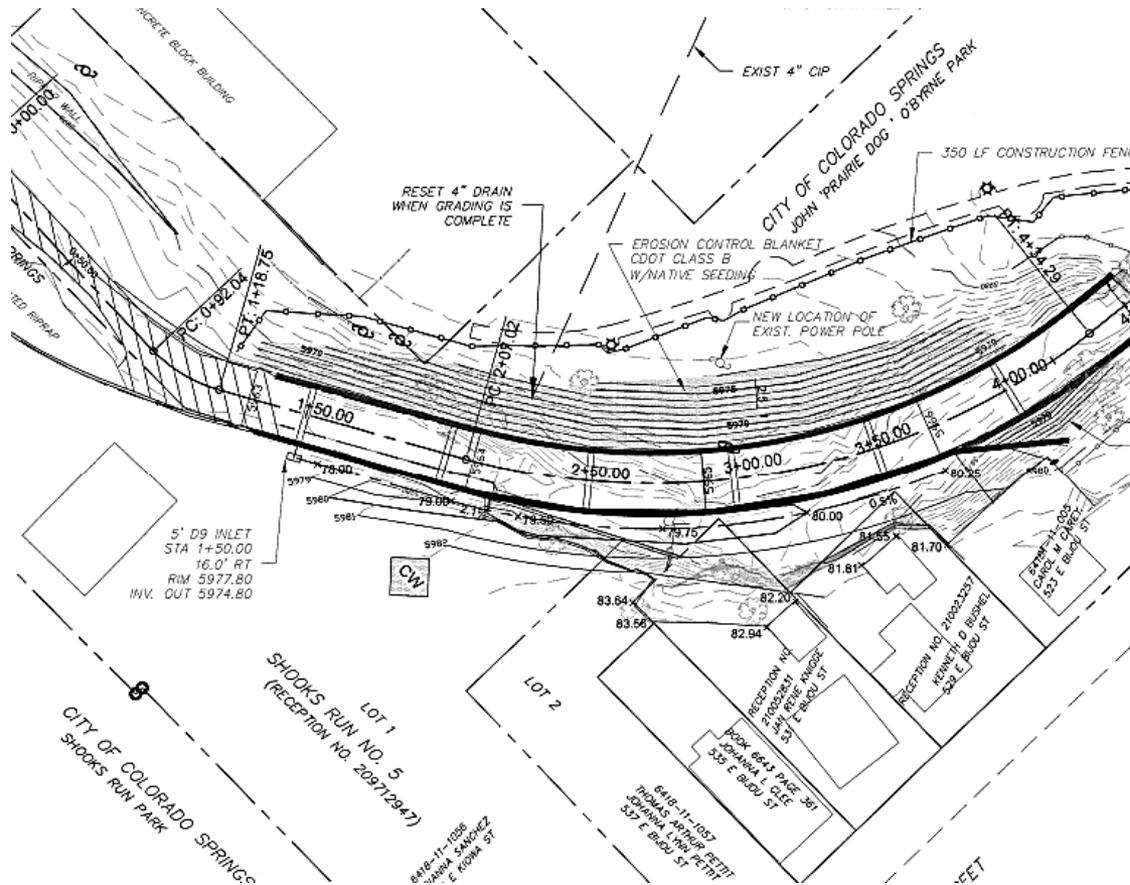
Shooks Run Wall



Shooks Run Wall



Architectural Design of new wall



New wall will be moved away from homes with smoother transition.

Overgrown vegetation will be removed.