

Watershed Protection Department

Capital Construction Opportunities

FY18-19



Typical WPD Project Types

- **Storm Drain Systems**

- ✓ *Pipe installation, trenching, utility coordination, street paving and resurfacing*

- **Drainage Channels**

- ✓ *Channel excavation, native landscape restoration, stone work*

- **Stormwater Control Structures (Water Quality & Flood Detention Ponds)**

- ✓ *Excavation, concrete work, landscape establishment and restoration*

- **Low Water Crossing Upgrades**

- ✓ *Structural concrete, bridge construction, paving and street resurfacing*

Upcoming Construction Opportunities: *FY18-19*

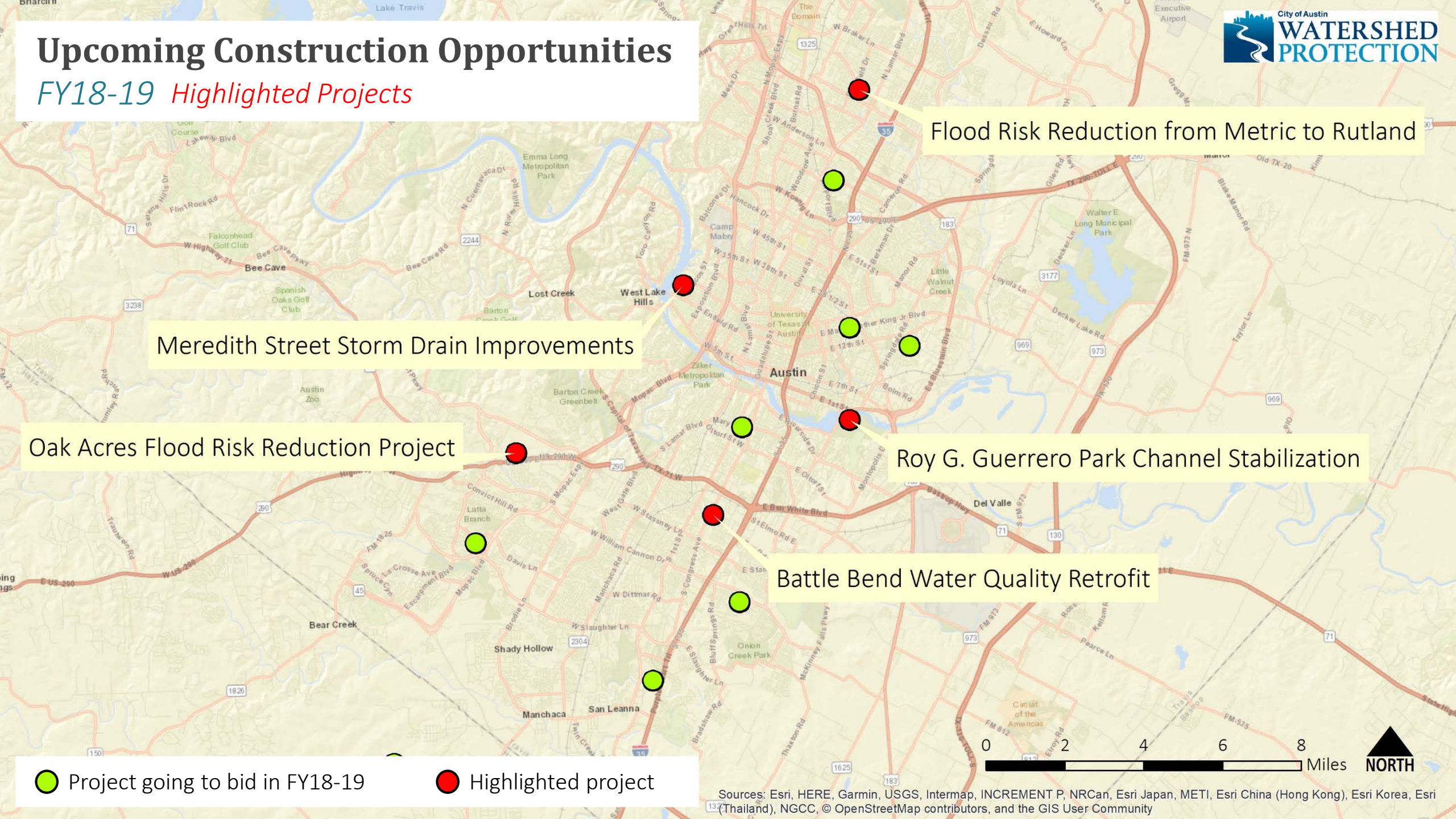
Bid Quarter	Name	Primary Project Type	Estimated Construction Cost*
FY19 Q1	Bitter Creek Tributary Channel Rehabilitation	Drainage Channel	\$ 2,535,000
FY19 Q1	Delores Tributary Waste Removal and Stream Restoration	Drainage Channel	\$ 2,000,000
FY19 Q1	Battle Bend Water Quality Retrofit	Water Quality Pond	\$ 837,000
FY19 Q1	Reznicek Field Water Quality Retrofit	Water Quality Pond	\$ 626,000
FY19 Q1	Old San Antonio Rd Low Water Crossing Improvements	Low Water Crossing	\$ 560,000
FY19 Q2	Flood Risk Reduction from Metric to Rutland	Storm Drain System	\$ 16,600,000
FY19 Q2	Mary Street Storm Drain Relief System	Storm Drain System	\$ 500,000
FY19 Q3	Meredith Street Storm Drain Improvements	Storm Drain System	\$ 2,500,000
FY19 Q3	Oak Acres Flood Risk Reduction Project	Low Water Crossing/Storm Drain System	\$ 2,132,000
FY19 Q4	Roy G. Guerrero Park Channel Stabilization	Drainage Channel	\$ 10,500,000
FY19 Q4	MLK TOD Storm Drain Improvements, Phase 1	Storm Drain System	\$ 8,750,000
FY19 Q4	Little Bear Creek - Recharge Enhancement Facility	Aquifer Recharge Enhancement	\$ 730,000
FY19 Q4	Williamson Creek - Village at Western Oaks Wet Pond	Water Quality Pond	\$ 450,000

Total Estimated Construction Opportunity Cost **\$48,720,000**

*Costs are approximate for presentation purposes only

Upcoming Construction Opportunities

FY18-19 *Highlighted Projects*





Meredith Street Storm Drain Improvements

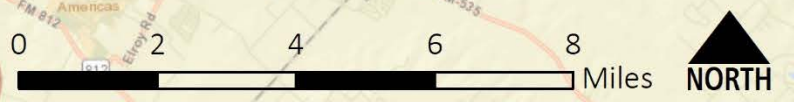
Flood Risk Reduction from Metric to Rutland

Oak Acres Flood Risk Reduction Project

Roy G. Guerrero Park Channel Stabilization

Battle Bend Water Quality Retrofit

 Project going to bid in FY18-19  Highlighted project



Water Quality Pollution Reduction

Battle Bend Water Quality Retrofit

Description

Joint project with the Parks and Recreation Department (PARD) to implement green stormwater infrastructure, stream/riparian habitat restoration, and enhance recreational opportunities in a City facility.



Primary Project Type	Water Quality Pond
Construction Cost*	\$837,000
Proposed Bid Start	FY19 Q1

Construction Components

- ✓ Excavation
- ✓ Native landscape restoration
- ✓ Park facility upgrades



*Costs are approximate for presentation purposes only

Creek Flood Risk Reduction

Flood Risk Reduction from Metric to Rutland

Description

Project will include a stormdrain/culvert bypass system under Mearns Meadow, pond improvements at Quail Creek Park, and wastewater system upgrades.



Primary Project Type	Stormdrain System
Construction Cost*	\$16,600,000
Proposed Bid Start	FY19 Q2

Construction Components

- ✓ Roadway excavation
- ✓ Detention pond excavation
- ✓ Cast-in-place concrete
- ✓ Storm drain/culvert installation
- ✓ Water & wastewater pipe installation
- ✓ Full depth street reconstruction
- ✓ Sidewalk/diveway approaches
- ✓ Trail construction
- ✓ Landscaping

*Costs are approximate for presentation purposes only

Creek Flood Risk Reduction

Oak Acres Flood Risk Reduction

Description

Upgrade the Oak Blvd low water crossing, which serves as the single point of access to the neighborhood, to reduce flood risk.



Primary Project Type	Low Water Crossing Upgrade
Construction Cost*	\$2,132,000
Proposed Bid Start	FY19 Q3

Construction Components

- ✓ Channel excavation
- ✓ Pre-cast bridge installation
- ✓ Storm drain installation
- ✓ Roadway excavation/street reconstruction
- ✓ Utility relocation
- ✓ Driveway approaches
- ✓ Landscaping

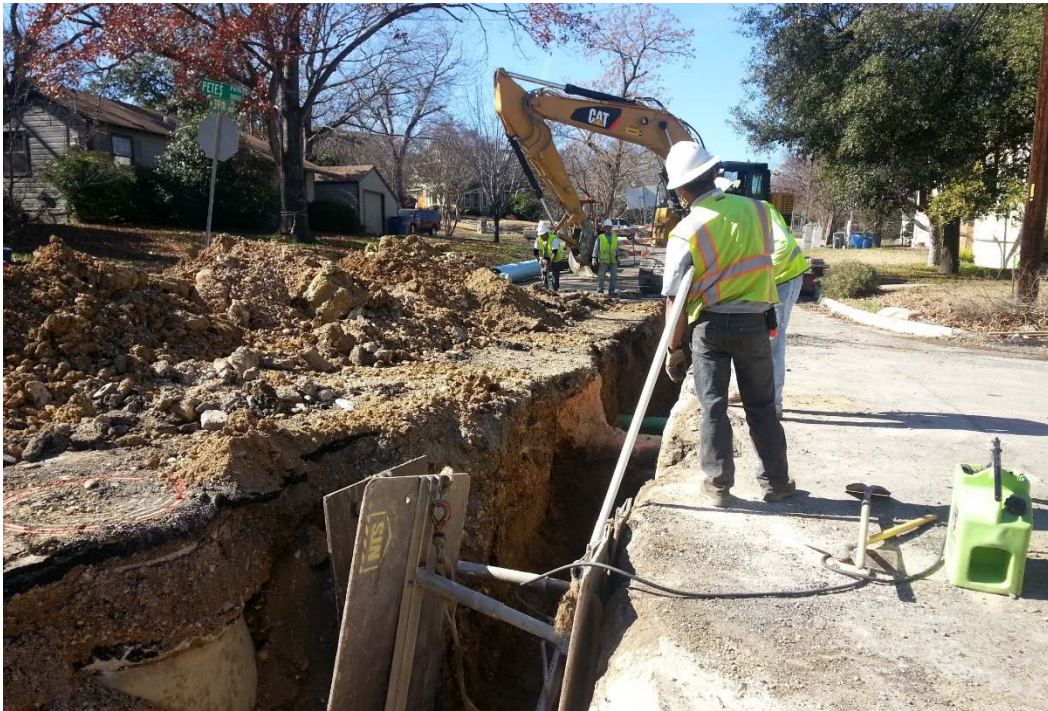
*Costs are approximate for presentation purposes only

Localized Flood Risk Reduction

Meredith Street Storm Drain Improvements

Description

This project aims to reduce the flooding of houses and yards with an updated storm drain system. In addition, the project will help improve water quality and erosion issues.



Primary Project Type	Storm Drain Improvements
Construction Cost*	\$2,500,000
Proposed Bid Start	FY19 Q3

Construction Components

- ✓ Roadway excavation
- ✓ Stormdrain and inlet installation
- ✓ Deep trenching and excavation in rock
- ✓ Geotechnical monitoring
- ✓ Outfall restoration
- ✓ Lab and field testing
- ✓ Landscaping
- ✓ Paving & resurfacing of roadway
- ✓ Void mitigation/cave in the vicinity

*Costs are approximate for presentation purposes only

Erosion Risk Reduction

Roy G. Guerrero Park Channel Stabilization

Description

Channel stabilization project to restore stability to parkland, support a pedestrian bridge, and protect upstream residential properties and City infrastructure.



Primary Project Type	Drainage Channel
Construction Cost*	\$10,500,000
Proposed Bid Start	FY19 Q4

Construction Components

- ✓ Excavation
- ✓ Embankment
- ✓ Retaining walls
- ✓ Cast-in-place concrete
- ✓ Rock riprap
- ✓ Sheet pile
- ✓ Landscaping
- ✓ Pedestrian bridge
- ✓ Trail construction

*Costs are approximate for presentation purposes only