

# Drinking Water and Reclaimed Water CIP Update

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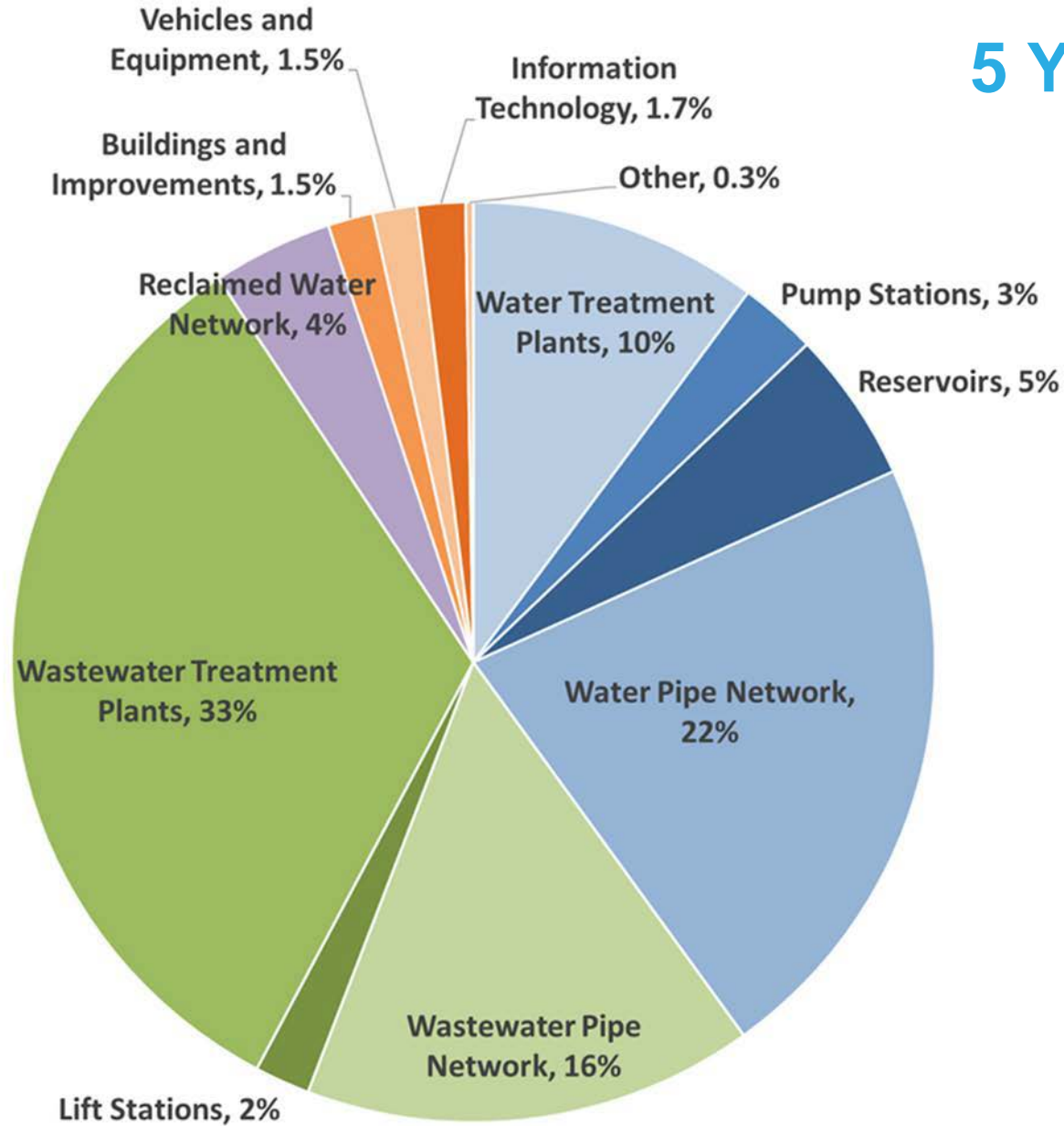
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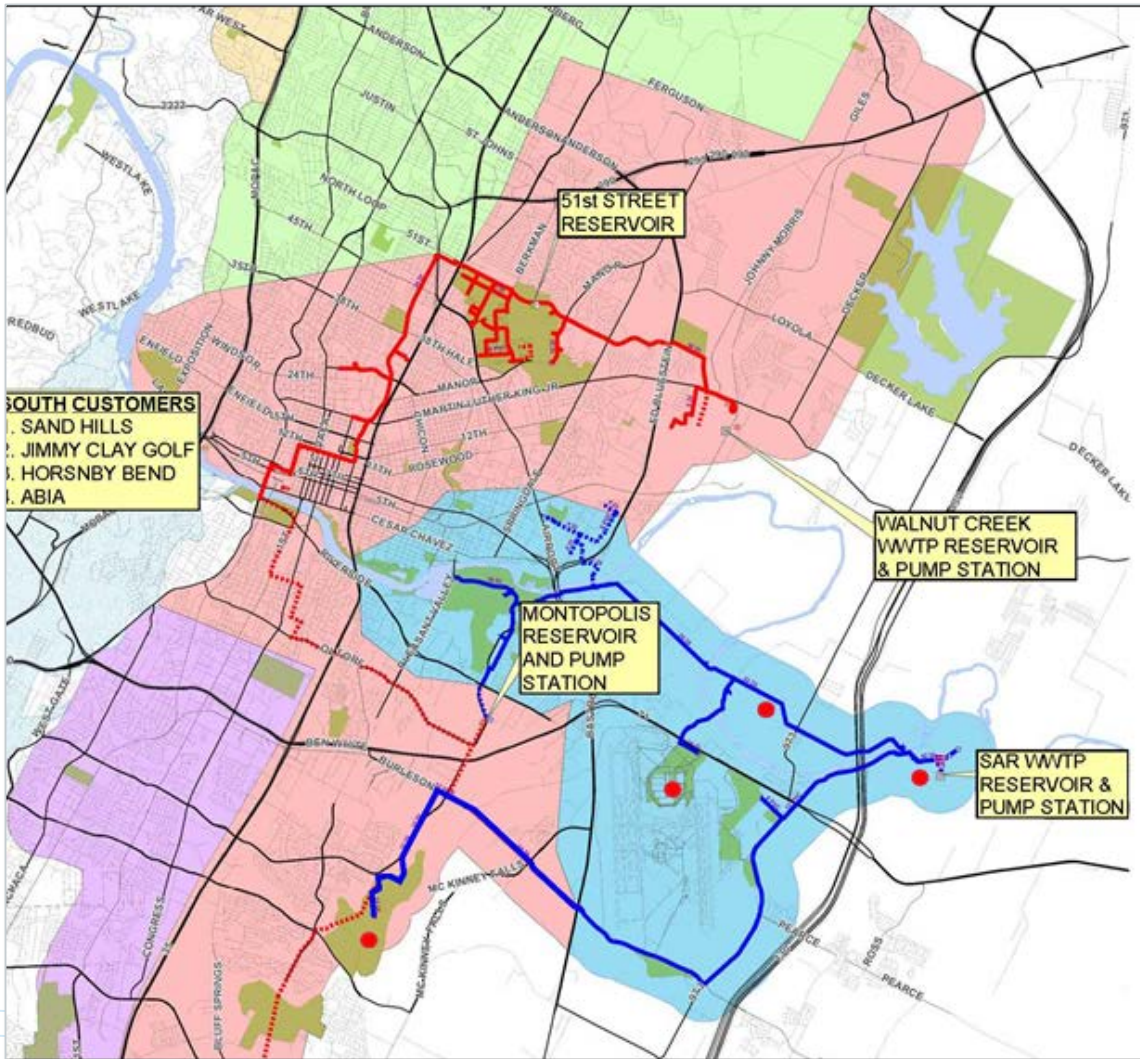
June 8, 2020



## 5 Year Capital Improvement Plan (by funding category)



# Reclaimed Water CIP FY 2020



## "Completing the Core" Projects

Project Name	Estimated Project Cost	W/WWC Review Construction RCA
Oltorf Street RW Ph. I	\$4.0 M	Early FY22
Oltorf Street RW Ph. II	\$5.2 M	Early FY22
Travis Heights RW	\$4.3 M	Early FY23
Barton South Congress RW	\$3.4 M	Late FY22

## System Expansion Projects

ABIA North	\$1.3 M	Late FY21
Onion Creek Phase I	\$8.1 M	Mid FY21
Onion Creek Park Ph. II	\$0.7 M	5/6/2020



# Reclaimed Water CIP FY 2020



- ◆ Projects to fully utilize the Montopolis Reservoir and Pump Station
  - Nearing completion
- ◆ Non-CIP Projects
  - Updating RW master plan with in-house engineering resources
    - ❖ Centralized plan to be complete this Fall
    - ❖ Distributed WW Reuse plan to be created in FY21
    - ❖ Develop Sewer Mining Strategy in FY22
  - System Water Hammer Analysis
    - To be completed this FY



# Water Distribution System CIP FY 2020

System Improvement CIPs		
Project Name	Estimated Project Cost	Next W/WWC Action
McNeil Road TM	\$24.0 M	Design early FY21
Highland Park Water Improvements	\$5.7 M	Construction January 2020
Springdale/Hwy 290	\$4.1 M	Construction FY21
Oltorf Pressure Zone Improvements - West Area	\$2.6 M	Construction FY22



# Water Distribution System CIP FY 2020

## System Maintenance/Rehabilitation CIPs

Project Name	Estimated Project Cost	Next W/WWC Action
Waterline On-call IDIQ	\$10 M (\$2 M/year)	Construction - Early FY21
Polybutylene Service Replacements	\$8.1 M	Construction - Early FY21
Renewing Austin Program		
Zilker Pipeline Renewal	\$6.4 M	Construction – Early FY21
Harmon Ave. Renewal	\$3.8 M	Construction - Late FY20



# Water Distribution System CIP FY 2020

- 💧 Paving IDIQ – 5 year construction contract
  - \$3.5 M/year for operations/maintenance follow up repairs
  - \$0.5 M/year for AW in-house CIP construction follow up





# Facility Engineering Water CIP FY 2020

## Water Treatment, Pumps Stations, and Reservoirs Major CIP Projects

<u>SPID</u>	<u>PROJECT</u>	<u>FY21-25</u>	<u>Rank</u>
2127.012	North Austin Reservoir and Pump Station Improvements (TWDB Funded)	\$38,849,134*	1
2127.036	Aquifer Storage and Recovery Pilot (TWDB Funded)	\$21,680,000*	2
5335.016	Ullrich WTP Low Service Pump Station Electrical Feed Renewal (TWDB Funded)	\$19,230,000	3
2015.041	Davis Water Treatment Plant Treated Water Discharge System	\$13,082,643	4
5335.070	Ullrich WTP Lime Feed Loop	\$11,404,266	5
5335.008	Ullrich WTP On-site Generation of Chlorine and Ammonium Sulfate Conversion	\$11,370,000*	6
2015.102	Davis WTP Polymer Feed System (2018 Flood Resiliency Improvements)	\$3,619,267	7
2015.017	Davis WTP Raw Water Hydraulic and Energy Efficiency and HSPS Area Improv	\$3,484,000	8
2015.019	Davis WTP Supervisory Control and Data Acquisition (SCADA) Improvements	\$3,202,000*	9
2127.042	Slaughter Lane Reservoir Improvements	\$3,021,002	10
2015.006	Davis Water Treatment Plant Power Distribution Upgrade	\$2,774,680	11
8702.009	Zebra Mussel Mitigation	<u>\$2,402,000</u>	12
		<b>\$134,118,992</b>	

Expansion Projects (\$21,680,000)

Projects in construction (\$60,727,724)

\* Have capital cost beyond the FY21-25 CIP Budget





# All WTPs – CIP FY 2020



## Zebra Mussel Mitigation Ullrich and Davis WTPs

- Construction Cost:
  - ❖ Davis WTP is **\$1,510,524**
  - ❖ Ullrich WTP is **\$2,402,000**
- Project Highlights:
  - ❖ Temporary systems operational in mid-June 2020
- Future Commission Action: None



## Flood Resiliency Improvements

### Estimated Construction Cost:

- ❖ Ullrich WTP is **\$1,945,000**
- ❖ Davis WTP is **\$2,180,000**
- ❖ Handcox WTP is **\$1,057,000**
- Project Milestones:
  - ❖ Engineer is under contract for Design through Construction Phase Services.
  - ❖ 30% design for cationic polymer feed is complete.
- Future Commission Action: Davis and Handcox Construction Contract FY21



# A. R. Davis WTP – CIP FY 2020



## Treated Water Discharge Project

### New Medium Service PS

- ◆ Construction Cost: \$45.5M
- ◆ Percent Complete: 77%
- ◆ Substantial Completion: 3/10/2021
- ◆ Project Highlights:
  - ❖ All connections to clearwells completed.
  - ❖ Building to be dried in and pumps installed by end of FY20.
- ◆ Future Commission Action: None anticipated



## Plant Power Distribution Upgrade

- ◆ Construction Cost: \$26.3M
- ◆ Percent Complete: 91%
- ◆ Substantial Completion: 8/20/2020
- ◆ Project Highlights:
  - ❖ Substation is energized and feeding power to various process areas.
- ◆ Future Commission Action: None anticipated



# A. R. Davis WTP – CIP FY 2020

## Raw Water Hydraulic and Energy Efficiency and HSPS Area Improvements

- ◆ **Construction Cost:**
  - ❖ FY20 Spending Plan is **\$263,347**
  - ❖ FY21-25 Spending Plan is **\$3,484,000**
- ◆ **Project Highlights:**
  - ❖ Final Plans and Specifications are expected by the end of FY20.
- ◆ **Future Commission Action:** Construction Contract March 2021



## SCADA Improvements

- ◆ **Capital Cost:**
  - ❖ FY20 Spending Plan is **\$204,700**
  - ❖ FY21-25 Spending Plan is **\$3,202,000**
- ◆ **Project Milestones:**
  - ❖ Approve proposal and start preliminary engineering effort.
- ◆ **Future Commission Action:** Construction Contract FY21



# A. H. Ullrich WTP – CIP FY 2020

## Lime Feed Loop

- 💧 **Capital Cost:**
  - ❖ FY20 Spending Plan is **\$2,941,734**
  - ❖ FY21-25 Spending Plan is **\$11,404,266**
- 💧 **Project Milestones:**
  - ❖ NTP issued June 1<sup>st</sup>
- 💧 **Future Commission Action:** None

## On-site Generation of Chlorine and Ammonium Sulfate

- 💧 **Capital Cost:**
  - ❖ FY20 Spending Plan is **\$360,000**
  - ❖ FY21-25 Spending Plan is **\$11,370,000**
- 💧 **Project Milestones:**
  - ❖ Currently in design contract negotiations
- 💧 **Future Commission Action:** Design Contract FY20





# A. H. Ullrich WTP – CIP FY 2020

## Low Service Pump Station Electrical Feed Renewal

- 💧 **Capital Cost:**
  - ❖ FY20 Spending Plan is **\$1,054,579**
  - ❖ FY21-25 Spending Plan is **\$19,230,000**
- 💧 **Project Milestones:**
  - ❖ Currently in Design Phase
- 💧 **Future Commission Action:** Construction Contract FY21



## Process Drain Improvements

- 💧 **Capital Cost:**
  - ❖ FY20 Spending Plan is **\$186,500**
  - ❖ FY21-25 Spending Plan is **\$7,093,771**
- 💧 **Project Milestones:**
  - ❖ Currently in Design Phase
- 💧 **Future Commission Action:** Construction Contract FY21





# Pump Stations and Reservoirs – CIP FY 2020

## North Austin Pump Station and Reservoir Improvements

- Contract execution 3/27/2020
- Pre-Construction Conference 4/21/2020
- NTP Issuance 6/15/2020



## Next Reservoir Project

- Slaughter Lane
  - ❖ 100% design complete; preparing to bid
  - ❖ Oct 1st NTP (anticipated)

