

April 13, 2021

Wastewater



Transportation



Parks



Water



Facilities



ANNUAL CAPITAL IMPROVEMENT PROGRAM ENGINEERING UPDATE



Engineering: CIP

City Engineer and Assistant City Engineer



Patricia Davis, M.S.C.E., P.E.

City Engineer

Directs Engineering Department and plans programs and projects in addition to managing operations, negotiations, bid requirements according to Texas Local Government Code (TLGC) and City Charter, development and approval of project specifications, authorization for tracking tools and usage of materials and resources, and department and program budgeting. Works with all City Departments, Consultants, Contractors and Developers to ensure projects meet the City's expectations.



Derek Klenke, P.E.

Assistant City Engineer

Assists the City Engineer in administering City ordinances and manages CIP programs and projects. Supervises and evaluates design, inspection, and administrative staff for the efficient and effective review, bidding, award and completion of water, wastewater, transportation, drainage, facility and parks CIP projects.



Engineering: CIP

Administrative Support and Project Management

Abby Morrison
CIP Manager



Responsible for project and operations management. Assists in bid requirements, negotiations, tracking and monitoring financial and budgeting impacts in support of CIP financial decisions. Works with all City Departments, Consultants, Contractors and Developers to ensure projects meet the City's expectations.

George Hill
CIP Technician



Provides administrative & logistical support to the CIP Engineering Department. Writes social media, web and video content, supports all members of the Engineering team and works with all City departments to ensure Engineering standards are met.

Romulus Atanasiu
Engineer Associate



Manages transportation and utility CIP Projects to ensure they are in compliance with applicable City codes, construction standards and specifications for guidelines to meet departmental policies & procedures, ordinances, and state and federal regulations.

Shawn Cooper
Parks Development Manager



Manages planning and development for short and long-range projects including the design and construction of City parks, trails, and recreation facilities. Assists with developing and implementing planning documents; and oversight and enforcement of the parkland dedication ordinance.

Mahmoud Alzioud
Traffic Engineer Associate



Manages traffic and transportation capital improvement program projects, performs traffic & transportation studies to maintain and improve mobility of Pflugerville's transportation system. Carries out all responsibilities in accordance with established departmental policies & procedures, City codes and ordinances, state and federal regulations.



Engineering: CIP

Construction Management and Inspections

Bradley Marshall
Construction Manager



Provides oversight of all construction management and inspections for CIP projects including constructability reviews and management of contractors, contract documents and applicable standards.

Lonnie Reed
Sr. Inspector



Oversees all construction work for compliance with approved contract drawings, specifications; supports review of RFIs, Change Orders and provides training for other Inspectors.

Tim Rathke
Inspector



Ensure projects are delivered successfully on budget and on time. Collaborates with Engineers and Contractors on project's needs and goals. They can be asked to oversee new construction or rehabilitation of existing infrastructure ranging from underground lines, roads, parks and various other types of projects.

Isaac Espinoza
Inspector



Ensure projects are delivered successfully on budget and on time. Collaborates with Engineers and Contractors on project's needs and goals. They can be asked to oversee new construction or rehabilitation of existing infrastructure ranging from underground lines, roads, parks and various other types of projects.

Carlos Jones
Inspector



Ensure projects are delivered successfully, on budget and on time. Collaborates with Engineers and Contractors on project's needs and goals. They can be asked to oversee new construction or rehabilitation of existing infrastructure ranging from underground lines, roads, parks and various other types of projects.



CIP Engineering MVP

- **Mission:** Our goal is to provide exceptional services to all while upholding standards, values and practices that benefit the community.
- **Vision:** We will aim for success and growth as a Department through TEAM collaboration, feedback, and thankful mindsets to promote the best possible work environment.
- **Purpose:** With Growth of the City of Pflugerville, the Engineering Department will ensure the community is provided with safe and effective facilities that make up a thriving community.

Department Overview

Planning

- Master Planning
- 5-Year Capital Improvement Plan
- Consultant Selection and Negotiation
- Project Prioritization and Project Funding

Design

- Design Management & Technical Oversight
- Plans, Specifications, Estimates (PS&E)
- Appraisals, Right-of-Way, Utilities
- Strategic Communication Planning

Construct

- Construction Bidding and Award
- Constructability Review
- Construction Inspection

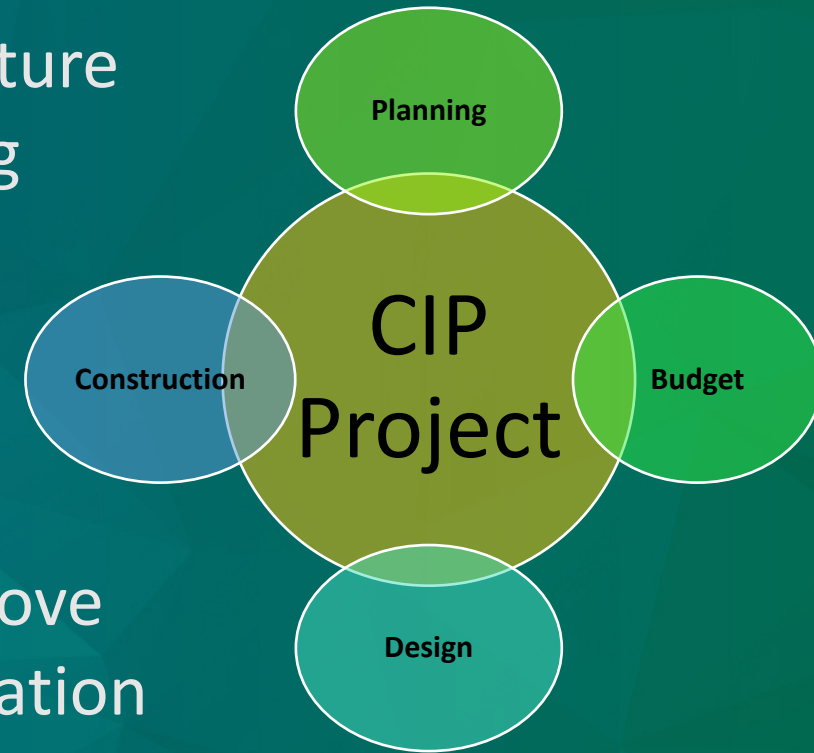
Roads, Parks, Facilities, Water, Wastewater, Drainage



What is a Capital Improvement?

A capital improvement is a major, non-routine expenditure for new construction, streets, improvements to existing buildings, parks, land purchases, facilities, major equipment, water infrastructure and/or wastewater infrastructure.

These projects are typically large in monetary value (above \$50k), have a long-life expectancy and result in the creation or improvement of a City asset. The cost of a capital improvement can include any expense that is necessary to put the asset into service.



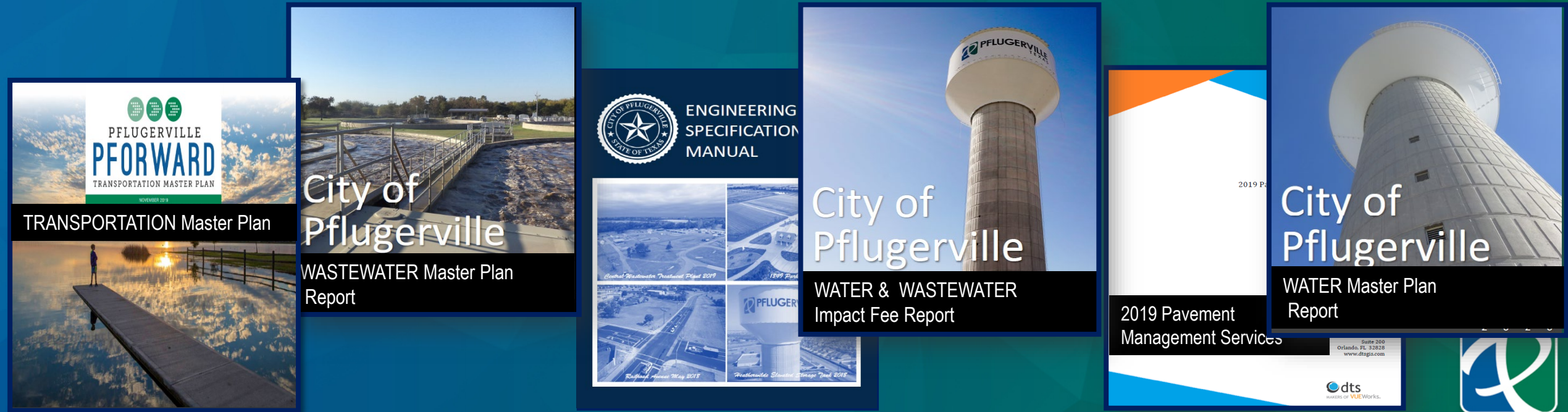
↑ \$50k



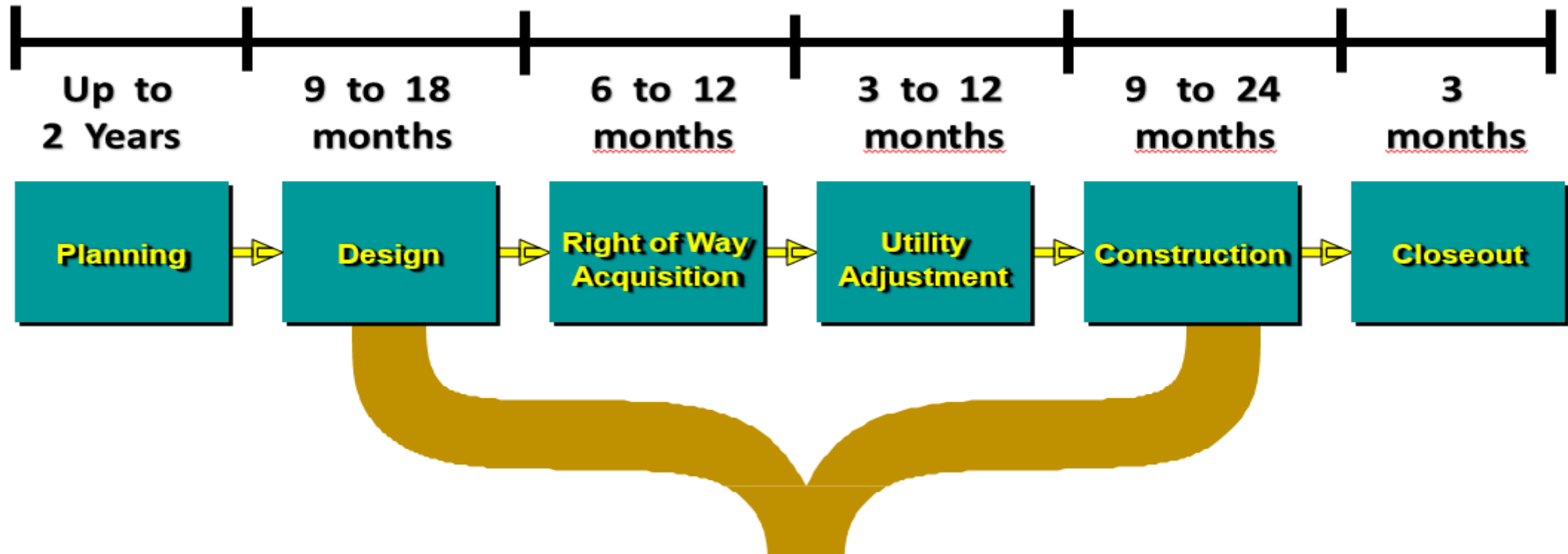
CIP Project Selection Process

5-Year Capital Improvement Program (CIP) is developed to identify the capital needs of the community over a five-year period. This program is designed to plan, prioritize, and coordinate capital improvement projects to work towards meeting today's needs, as well as those of the future.

- Master Plans: adopted every 3-5 years
- Community Input
- City Comprehensive Plan
- Development Influence



Typical Project Development Process



Minimum Schedule – 2 years and 3 months
Long Schedule – 5 years and 4 months



FY21 Department Goals

- Allocate resources in a manner consistent with the Transportation Master Plan, Water & Wastewater Master Plans, the Strategic Plan, and other engineering and policy documents of the City
- Complete ADA Transition Plan and Develop project list to included in 5-Year CIP
- Review and refine the Engineering Design Manual to meet industry standards
- Complete construction of the SH 130 WW Interceptor Project
- Begin construction on the SH 45 Water and Wastewater Line Extension Project
- Implement Year 1 of Pavement Management Assessment Report
- Establish a policy for pavement design standards for City roadways
- Design and construct transportation CDBG Program projects **50% Complete**



Completed October 2019-December 2021

Weiss Lane LS Rehab



Black Locust
Pavement Rehab



Stone Hill Park



Wilbarger Creek Park



Swenson
Farms PRV



Pfennig Lane
Widening



Heatherwilde/
Windermere Subdivision
Street Improvements



Stone Hill Park
Splash Pad



2019 CDBG El Malino
& Bellemeade



Justice Center
Sewer Line Project



Biltmore at Pecan
Traffic Signal

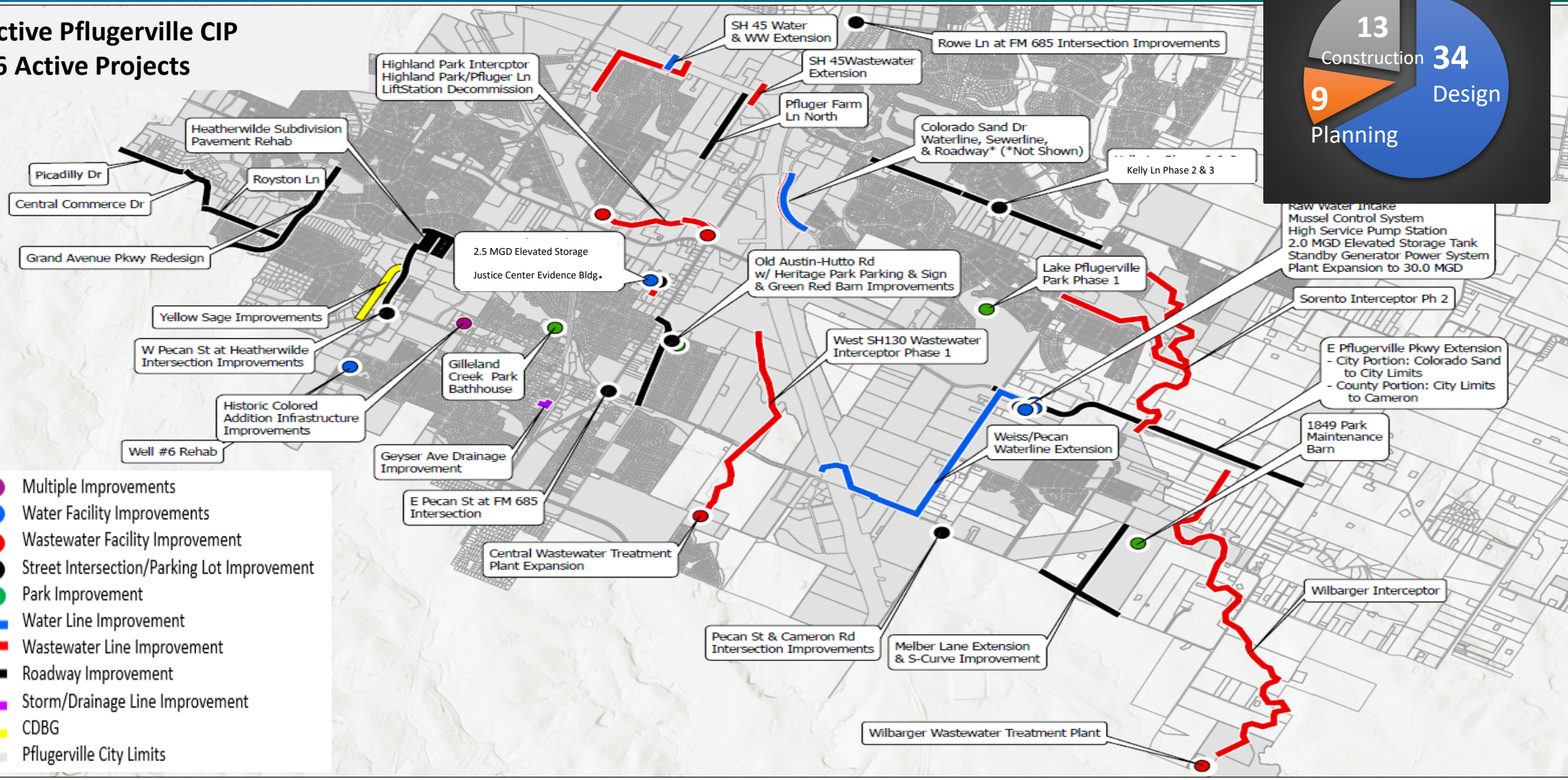


1849 Park
Intersection



Active Pflugerville CIP

56 Active Projects



Accomplishments & Accolades

- **Derek Klenke** led Smartsheet Tracking Software implementation
- **Abby Morrison** streamlined Consultant Solicitations, 5-Year CIP Report and developed training materials for CIP processes
- **Isaac Espinoza** and **George Hill** led PlanGrid Construction Inspection Software implementation
- **Inspections Team** completed over 100 hours training and certifications; as well as continued inspections during COVID-19
- **Brad Marshall** led New Specifications and Standards training sessions
- **Romulus Atanasiu** provided oversight for Pavement Design updates
- All **CIP Team** supported and reviewed Engineering Specifications
- **Romulus Atanasiu** supported with City's success for \$165M TWDB Grant
- **Isaac Espinoza** has created branding logo for CIP Engineering





Questions?

CAPITAL IMPROVEMENT PROGRAM ENGINEERING

