



Capital Improvement Program Update

City Council Work Session

July 16, 2019



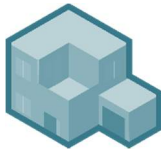
Presenters



Engineering Department

- Nick Ataie, PE, Infrastructure Construction Projects

Engineering CIP Manager



Public Works Department

- Patricia Jackson, PE, Facility Construction Projects

Facilities Construction Manager



Parks, Recreation, and Open Space Department

- Jenny Baker, Park Construction Projects

Parks Planning & Development Manager



Engineering Department CIP Update

- **Voter-Authorized GO Bond Summary**
 - *Voter-Authorized GO Bonds (2015 - Streets) (\$64.1M)*
 - *Remaining 2015 Street GO Bonds (\$31.4M) estimated to be issued by the end of 2019.*
 - *Voter-Authorized GO Bonds (2019 – Transportation) (\$100M)*
 - *Planned issuance beginning as soon as 2020.*
- **FY Expenditure Summary**

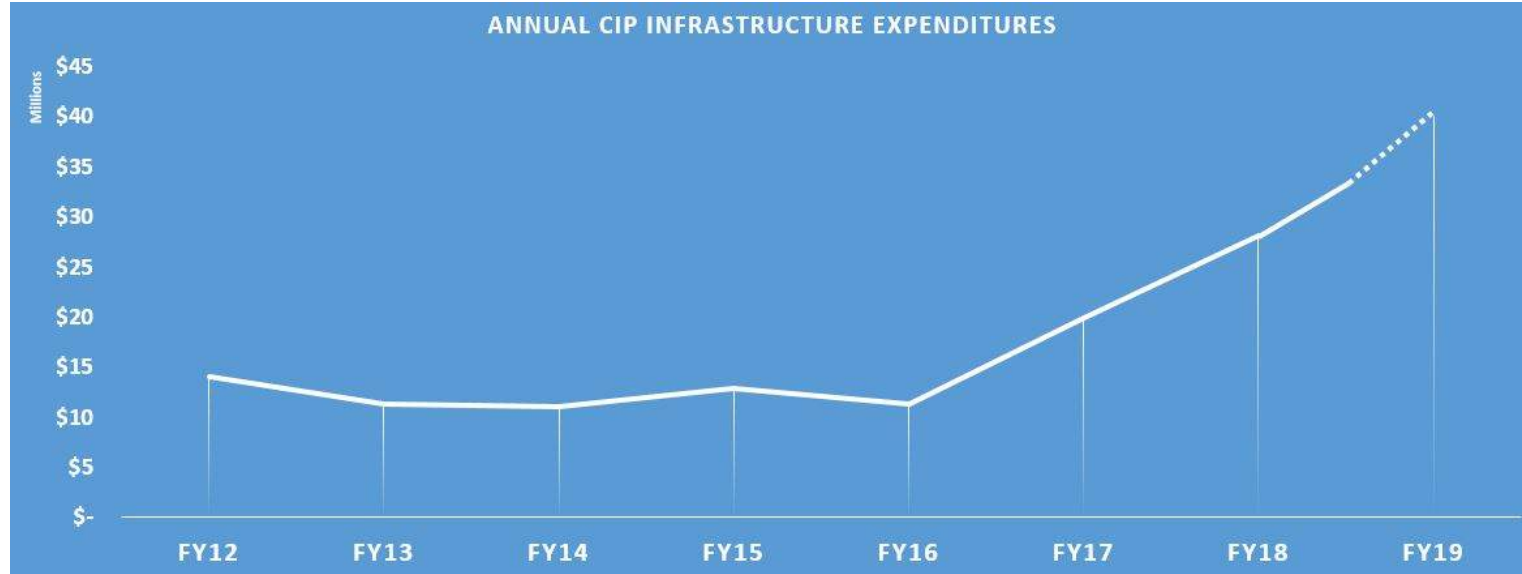


New Roadways

Added Roadway Capacity

Roadway Reconstruction

Traffic & Safety



Engineering – Active Combined Infrastructure Projects (Construction)



■ CO1703 – Pearson Avenue Improvements

- Storm Drainage Improvement, Wastewater Main Replacement, Paving Reclamation
- Construction estimated to be complete August 2019

\$2.3M

**85%
Complete**

■ CO1704 – Main Replacement & Street Rehabilitation East of SH 5

- 3.5 miles of water/wastewater main replacements & associated street rehabilitation
- Construction estimated to be complete July 2020

\$6.8M

**35%
Complete**

■ CO1705 – Main Replacement & Street Rehabilitation South of Virginia Street

- 1.4 miles of water/wastewater main replacements & associated street rehabilitation
- Construction estimated to be completed August 2019

\$2.6M

**85%
Complete**

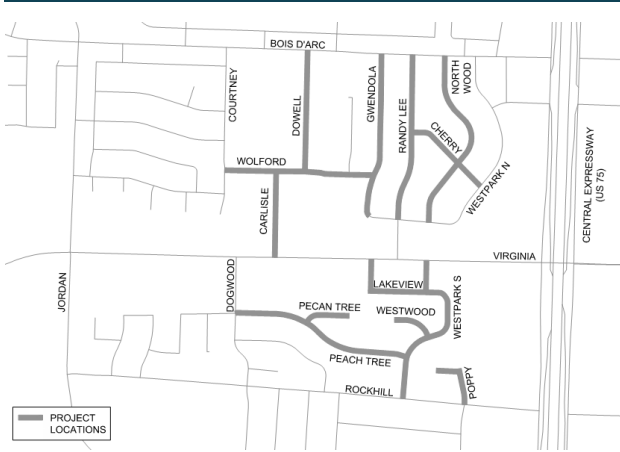
■ CO1706 – Main Replacement & Street Rehabilitation North of Virginia Street

- 3.3 miles of water/wastewater main replacements & associated street rehabilitation
- Construction estimated to be completed October 2019

\$4.3M

**70%
Complete**

Engineering – Active Combined Infrastructure Projects (Planned)



■ CO1902 – Northwood Park / Westwood Park Area Main Replacements & Street Rehab

- *Continuation of annual water/wastewater main replacements and associated street pavement repair.*
- *Design underway with construction estimated to begin early 2020 **

■ CO4238 – Town Center Infrastructure Improvements

- *Infrastructure Improvements (Street, Utilities, Pedestrian, Lighting, and Landscape) along East Louisiana Street (Church Street to SH 5).*
- *Includes corridor study of Tennessee (Davis to Louisiana) & Johnson Street (Davis to Virginia).*
- *Design underway with Public Meeting scheduled for early August 2019.*
- *Construction expected to occur in 2020 **

** Timeframes estimated and may be impacted by land acquisition requirements and/or franchise utility relocation schedules.*



Engineering – Major Active Roadway Infrastructure Projects (Construction)



- **ST1219 – Virginia Pkwy Lanes 5 & 6 (Bellegrove to US 75)**

- *Added Travel Lanes / Intersection Improvements*
- *Construction estimated to be complete September 2019*

\$10M

**90%
Complete**

- **ST1612/1613 – Redbud Lanes 3 & 4 / McLarry Drive Improvements**

- *Construction of SB Lanes 3 & 4 (Redbud)*
- *Improvements to McLarry Drive*
- *Construction estimated to be complete August 2019*

\$2.2M

**90%
Complete**

- **FA4320/ST4422 – Trinity Falls Parkway**

- *Construction of Lanes 3 & 4 (N of Laud Howell)*
- ** City-Contribution for Construction of Lanes 3 & 4 concurrent with developer obligation (N of Laud Howell to FM 543)*
- *Construction estimated to be complete early 2020*

\$4.9M *

**30%
Complete**

- **ST1622 – Annual Street Rehabilitation**

- *Reconstruction of various streets citywide.*
- *Construction estimated to be complete this month!*

\$1.2M

**95%
Complete**

Engineering – Major Active Roadway Infrastructure Projects (Construction)



▪ ST1615/ST1618 – Arterial Capacity Improvements

\$2.4M

**30%
Complete**

- *Added Travel Lanes / Intersection Improvements*
- *Construction estimated to be complete December 2019*

▪ ST1649 – Accessibility Improvements

\$2M

**30%
Complete**

- *Annual construction and reconstruction of sidewalks, curb ramps, and intersections.*
- *Project generally located in the perimeter of the Downtown McKinney Square.*
- *Construction estimated to be complete January 2020*

▪ ST4334 – Stonebridge Bridge Replacement

\$2M

**50%
Complete**

- *Complete bridge reconstruction at Rowlett Creek*
- *Construction estimated to be complete October 2019*
- *Long-term bridge closure and detour in place*

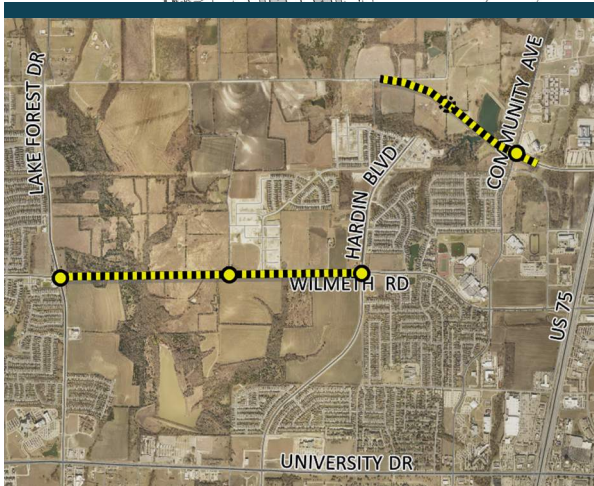
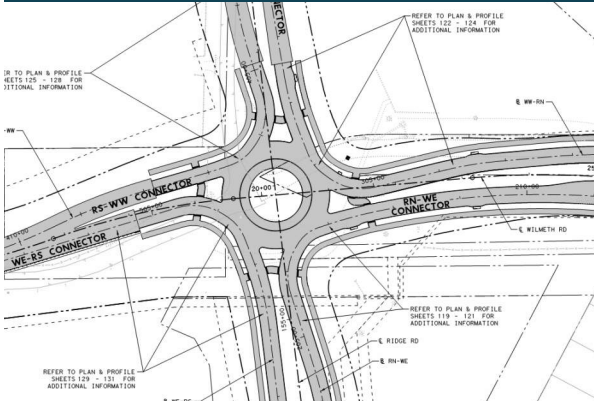
▪ TR1620/TR1702 – Traffic Signal Construction

\$1.3M

**65%
Complete**

- *4 New Traffic Signals*
- *Construction estimated to be complete October 2019*

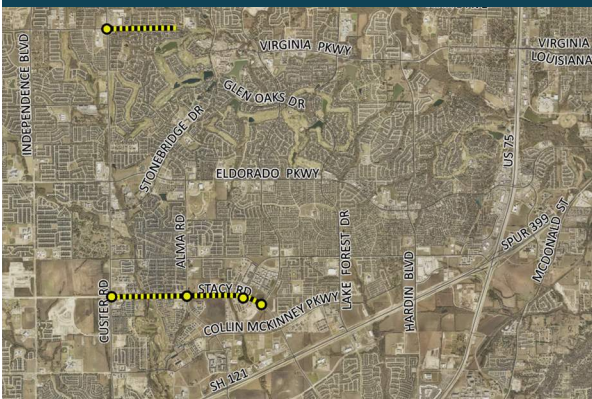
Engineering – Major Active Roadway Infrastructure Projects (Planned)



- **ST1617 – Ridge Road Extension (US 380 – Wilmeth)**
 - 4-Lane (ultimate 6-lane) arterial with multi-lane roundabout at Wilmeth
 - Design underway with construction estimated to begin late 2019 *
- **ST1719 – Wilmeth Road (Lake Forest – Hardin))**
 - New 2 or 4 lane arterial construction (ultimate 4-lane)
 - Initial lanes constructed will be based on land acquisition costs
 - Design to be underway Fall 2019
- **ST4227 – Bloomdale Road Extension (West of Community)**
 - 4-Lane (ultimate 6-lane) arterial with connection west of future Hardin
 - Design complete; Construction bidding expected Late Summer 2019 *
- **ST1723 – Wilmeth Road Lanes 3 & 4 (West of SH 5)**
 - Construction of 2 new travel lanes / Illumination improvements
 - Design underway with construction estimated to begin early 2020 *

* Timeframes estimated and may be impacted by land acquisition requirements and/or franchise utility relocation schedules.

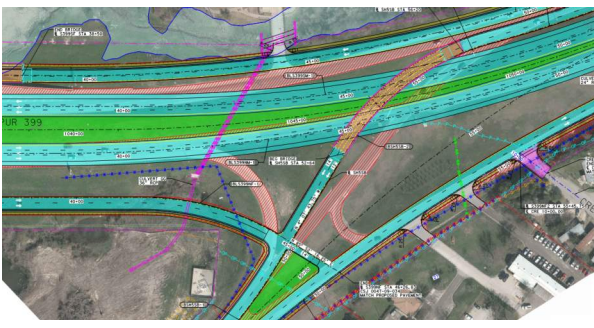
Engineering – Major Active Roadway Infrastructure Projects (Planned)



- **ST1841 – Collin McKinney Pkwy (Lake Forest – Hardin)**
 - *Remaining construction of travel lanes (4-lane ultimate)*
 - *Design underway with construction estimated to begin Summer 2020 **
- **ST4372– Airport Drive Improvements**
 - *Construction of 4-lane arterial at Harry McKillop / FM 546 and various intersection improvements*
 - *Design complete; Construction bidding expected Late Summer 2019 **
- **ST1837/ST3212 – Stacy Road Lanes 5 & 6 (Custer - Ridge)**
 - *Construction of additional travel lane in each direction*
 - *Design to begin late Summer 2019*
 - *City awarded federal funding for improvements near Custer Road*
- **ST1839 – Virginia Parkway Lanes 5 & 6 (East of Custer)**
 - *Remaining construction of travel lanes (6-lane ultimate)*
 - *Design underway with construction estimated to begin early 2020 **

** Timeframes estimated and may be impacted by land acquisition requirements and/or franchise utility relocation schedules.*

Engineering – Major Active Roadway Infrastructure Projects (Planned)



- **TxDOT Custer Road Reconstruction (US 380 – FM 1461)**
 - *Construction by TxDOT expected late 2020 **
 - *Design to be complete Summer 2019; Land Acquisition underway by TxDOT*
 - *Construction as a 4 lane divided roadway (ultimate 6 lane)*
 - *Required City utility relocations (design completed) with construction anticipated late 2019*
- **TxDOT SH 5 Reconstruction Phase 1 (Frisco Road – US 380)**
 - *Construction by TxDOT expected early 2022 **
 - *TxDOT led public hearing planned for early 2020*
 - *Construction as a 4 lane divided roadway*
 - *Grade-separated interchange planned at SH 5/SP 399*
 - *Includes 10' shared use path along SB lanes through Town Center corridor*
 - *City will be required to provide a local match for right-of-way and relocate City utilities prior to construction*
 - *No local construction match to be requested by TxDOT*

** Timeframes estimated and may be impacted by land acquisition requirements and/or franchise utility relocation schedules.*

Engineering – Active Major Utility Infrastructure Projects (Construction)

\$3.4M

Complete

- **WA1624 – Redbud Pump Station Transmission Main (794PP)**

- *New 54" Water Transmission Main*

\$2.6M

**3%
Complete**

- **WA1625 – University Pump Station Improvements**

- *Added Pumping Capacity & Various Electrical Improvements*
- *Estimated completion October 2020*

\$22M

**80%
Complete**

- **WA8132 – Redbud Pump Station**

- *New Master Planned Pump Station Facility*
- *Estimated completion October 2019*

Ongoing

- **WW1855 – Wastewater Main Cured-In-Place-Pipe (CIPP)**

- *Structural liner applied to existing wastewater trunk mains*
- *Annual funding allocated in the CIP*



Engineering – Active Major Utility Infrastructure Projects (Planned)

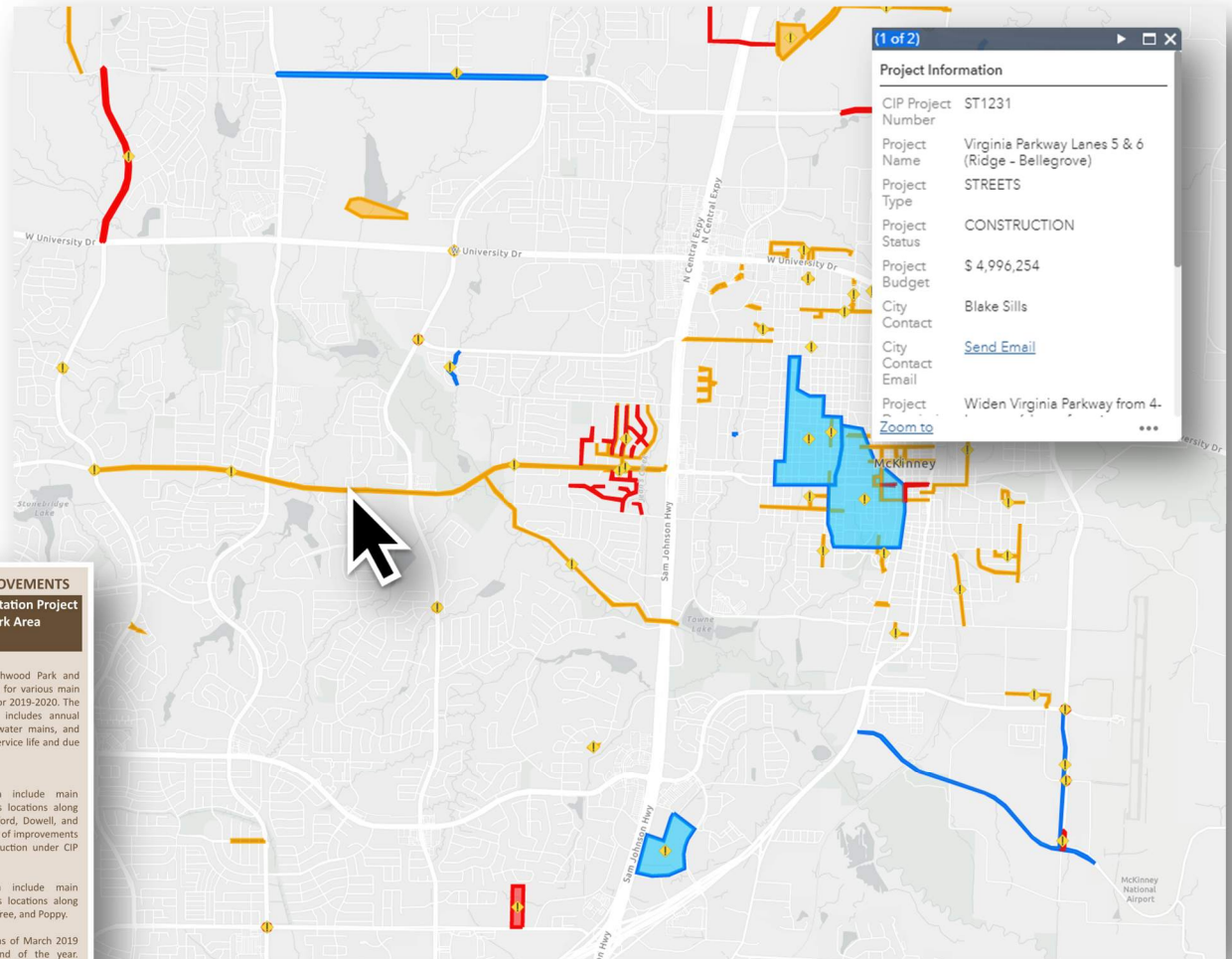
- **WA1626 – McKinney Ranch Pump Station Improvements (Ph 1)**
 - *Replacement of pumps including new electrical building*
 - *Design underway with construction estimated to begin early 2020 **
- **WA1630 – Custer Road Utility Relocations**
 - *Relocation and construction of master-planned 24" water main*
 - *Design underway with construction estimated to begin Fall 2019 **
- **WA4339 – Harry McKillop & Airport Drive Water Mains**
 - *Construction of master-planned 24" water mains (development catalyst)*
 - *Design expected to begin August 2019*
- **WA4340 – Redbud Pump Station 850PP Transmission Main**
 - *Construction of master-planned 42" water transmission main*
 - *Design complete; Easement Acquisition underway*
- **WA4202/WW4209 – Water & Wastewater Master Plan Update**
 - *Update to the 2012-2013 Master Plan and Utility Impact Fee*
 - *Study and planning efforts underway*

* Timeframes estimated and may be impacted by land acquisition requirements and/or franchise utility relocation schedules.



Engineering CIP – Where to Get Information on Active Projects

- Interactive map (desktop / mobile friendly)
- Location of all active capital infrastructure projects.
- Project updates and informational material.
- Project schedules and funding.
- City staff contact information.
- More to come....



CITY OF MCKINNEY CAPITAL IMPROVEMENTS
Main Replacements and Street Rehabilitation Project
Northwood Park & Westwood Park Area
(CIP Project CO1902)

PROJECT BACKGROUND
 The local roadways in the vicinity of the Northwood Park and Westwood Park subdivisions have been identified for various main replacements and street pavement rehabilitation for 2019-2020. The City of McKinney's Capital Improvements Plan includes annual funding for replacement of water mains, wastewater mains, and street pavement which is reaching the end of its service life and due for replacement.

PROJECT OVERVIEW
 Improvements to the Northwood Park area include main replacements and street rehabilitation at various locations along North Wood, Cherry, Randy Lee, Gwendola, Wolford, Dowell, and Carlisle. These improvements are the second phase of improvements as a continuation of work currently under construction under CIP Project CO1706.

Improvements to the Westwood Park Area include main replacements and street rehabilitation at various locations along West Park, Lakeview, Westwood, Peachtree, Pecan Tree, and Poppy.

Design of these improvements will be underway as of March 2019 and are expected to be completed by the end of the year. Construction is expected to begin in early 2020.

ESTIMATED PROJECT SCHEDULE

Activity	2019 (Mar)	2019 (Nov)	2020 (Jan)	2021 (Jan)
Design Started				
Design Complete (Est.)				
Construction Begins (Est.)				
Construction Complete (Est.)				

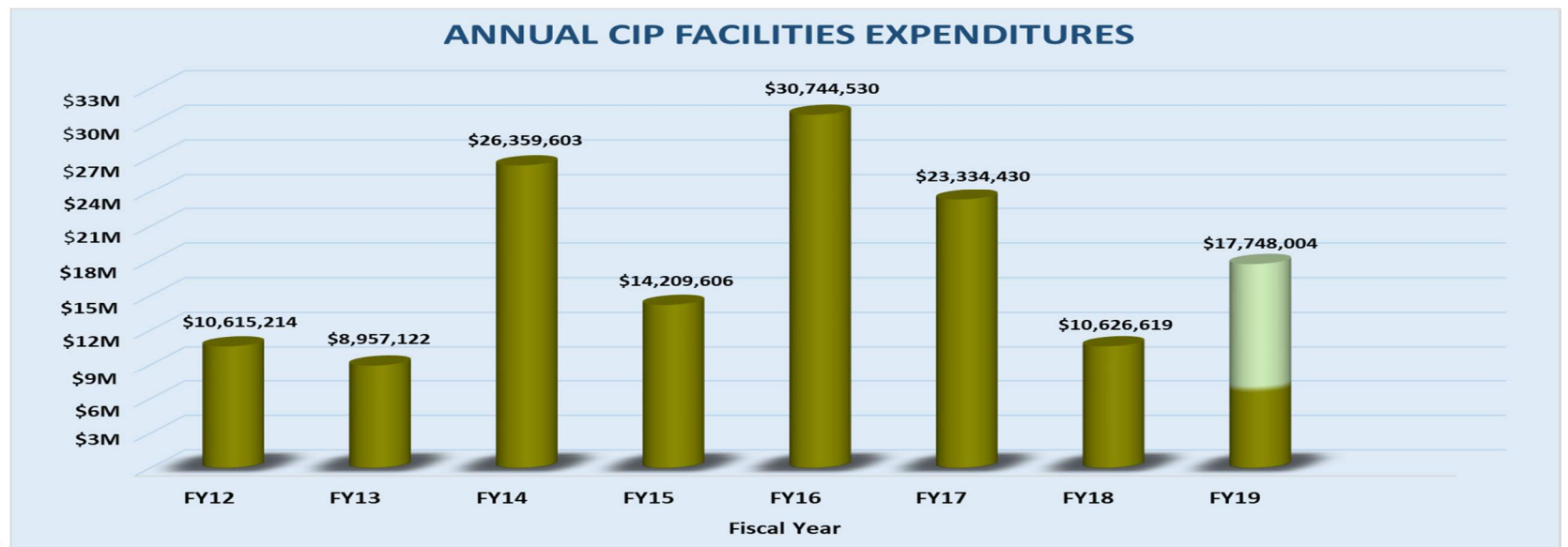
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 Unique by nature.

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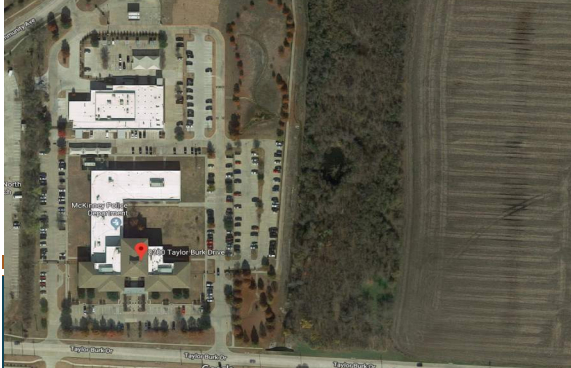
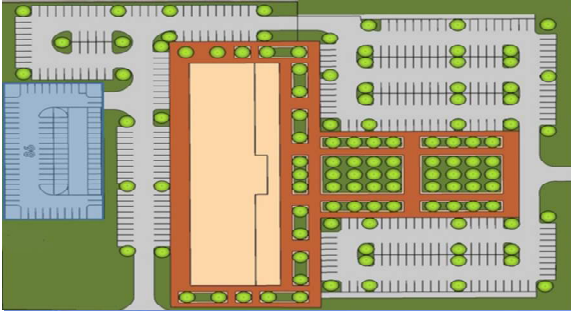


Facilities Construction CIP Update

- **Voter-Authorized GO Bond Summary - Facilities**
 - *Voter-Authorized GO Bonds (2015 Bond Election)*
 - *Public Safety: 22.5 million*
 - *Municipal Facilities: \$11.7 million*
 - *Voter-Authorized GO Bonds (2019 Bond Election)*
 - *Municipal Complex: \$50 million initial funding*
 - *Public Safety Facilities: \$75 million*
 - *Public Works Facilities: \$34 million*
- **FY Expenditure Summary**



Facilities Construction – Active Facilities Projects (In Master Planning)



FC1202 – Public Works Master Plan

- Revised layout of the existing Public Works 15 acre site
- Master Plan estimated to be complete this year

\$90K

**75%
Complete**

FC1707 – Municipal Complex Master Plan

- Spatial requirements to house projected City Council public and staffing needs including plazas and parking
- Master Plan to be completed upon site selection

\$300K

**90%
Complete**

GRANT – McKinney Performing Arts MP Update

- The Texas Historic Commission is funding updates to the historic courthouse master plan last updated 2000
- Master Plan meetings with architect have just begun

\$50K

**5%
Complete**

FC2229 – Public Safety Master Plan

- Investigation of potential maximum utilization of existing 16 acre site
- Master Plan to be completed upon revised space utilization studies

\$80K

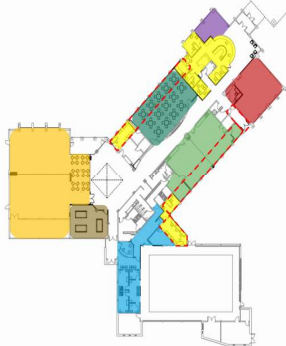
**90%
Complete**

Facilities Construction – Active Facilities Projects (In Design and/or Programming)



SCHEMATIC PLAN

- Enclosed porches (+1,827 SF)
- Administration
- Library
- Activity space
- Fitness
- Meeting space
- Aquatics
- Billiards
- Assembly Hall



- FI1731 – Fire Station #11 at Craig Ranch**
 - New fire station in Craig Ranch with completely new design because of site configuration*
 - Design proposal received, agenda item for City Council consideration in the next few months*

- PK4394 – Senior Center Renovation**
 - Approximately 15,000 SF of existing space will be renovated and individual functional areas expanded*
 - Meetings have been held with Senior Advisory Committee and staff*

- FC1202 – Fleet Expansion**
 - Additional fleet maintenance facility for heavy duty apparatus and equipment*
 - Design proposal received, agenda item for City Council consideration in the next few months*

\$10.5M

Not Started

\$1.5M

**25%
Complete**

\$10.0M

Not started

Facilities Construction – Active Facilities Projects (Under Construction)



- **FI1734 – Fire Station 10 at Trinity Falls**
 - *New 15,800 SF, 3 apparatus bay fire station w/ storm shelter and training yard*
 - *Construction estimated to be complete February 2020*

\$8.5M

**40%
Complete**



- **FC1728 – Public Safety Building Retrofit Phases 3 & 4**
 - *Approximately 5,000 SF of 15,000 SF total of renovated spaces for new training room and dispatch*
 - *Construction estimated to be complete August 2019*

\$2.6M

**70%
Complete**

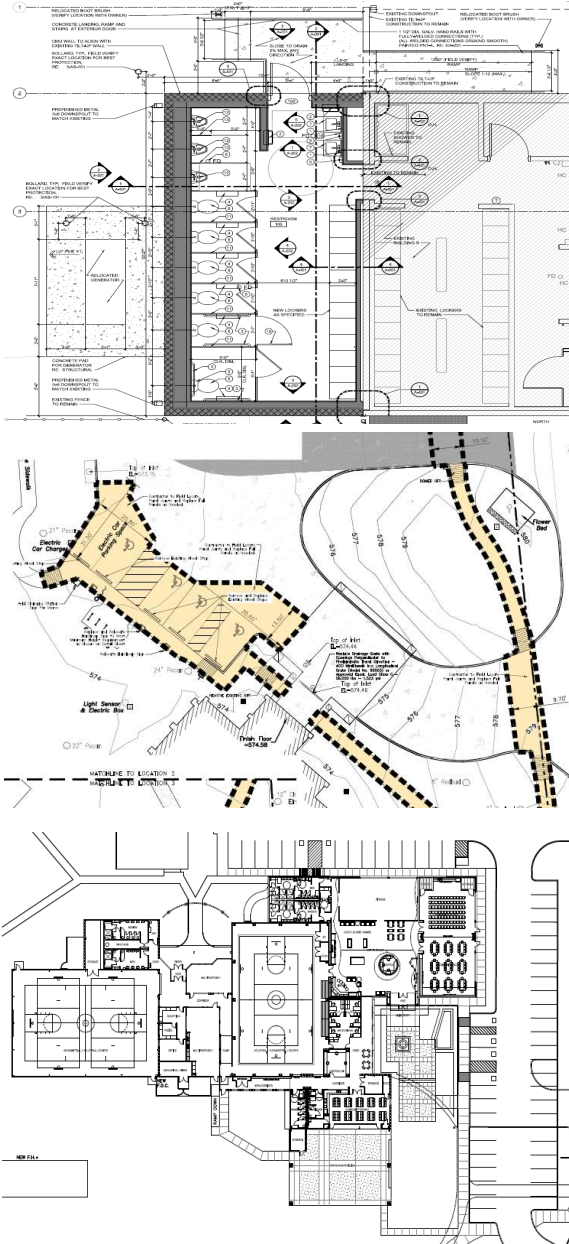


- **LI1609 – John & Judy Gay Library Expansion & Renovation**
 - *15,000 SF addition that doubles the public space, with additional parking and parks connector road*
 - *Construction estimated to be complete Summer 2020*

\$9.5M

**15%
Complete**

Facilities Construction – Active Facilities Projects (Under Construction)



■ FC2239 – Public Works Restroom Projects

- *New multi-fixture staff restrooms in Building A for Parks and in Building B for Water and Wastewater*
- *Construction estimated to be complete August 2019*

\$400K

**40%
Complete**

■ FC2239 – Senior Center Exterior ADA Improvements

- *Accessible parking and paving upgrades along with sidewalk reconstructions for compliance*
- *Construction estimated to be complete Summer 2019*

\$300K

**10%
Complete**

■ PK4398 – Old Settlers Recreation Center Renovations

- *Two phase of renovation – south side finishes and fixtures upgrades, north side additional spaces and finishes and fixtures upgrades*
- *Construction estimated to be complete Summer 2020*

\$4.0M

**5%
Complete**

Facilities Construction – Completed Facilities Projects



- **PPP – Chestnut Commons Parking Garage**
 - *New 315 vehicle space cast-in-place post-tensioned 5 level parking garage*
 - *Certificate of Occupancy – March 2019*

- **Development Services Reconfigurations**
 - *Reconfiguration of multiple areas in Development Services for more efficient utilization of space and to accommodate existing and planned growth*

- **FC1728 – Public Safety Building Retrofit Phases 1, 2 & 5**
 - *Approximately 10,000 SF of 15,000 SF total of renovated spaces for expansion of staff into vacated areas*
 - *Phases complete include new areas for CID, Fraud, Case Management, Patrol and the Patrol Briefing Room*

Facilities Construction – Future Facilities Projects



▪ FC1727 – New Municipal Complex

\$50M

- *Design and construct a new City Hall with state of the art City Council Chambers, public meeting spaces, customer services areas, staff offices and conference rooms and associated spaces along with parking*

▪ FC1202 – Public Works Projects

\$34M

- *Multiple new and renovation projects for the various divisions of the Public Works Department*
- *Fleet expansion is included in overall budget*

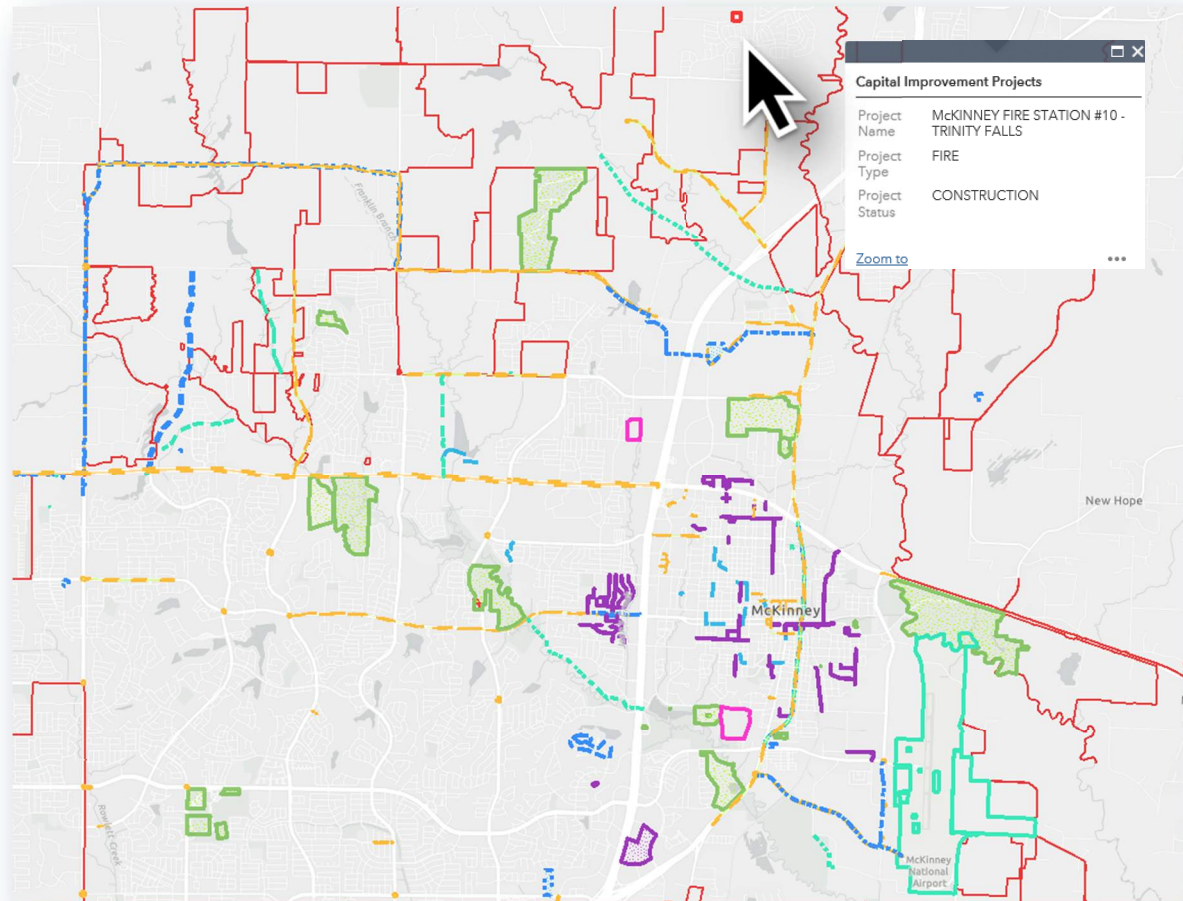
▪ FC2004 – Public Safety Projects

\$75M

- *Multiple new and renovation projects for both the Police Department and the Fire Department*

Facilities Construction CIP – Where to Get Information on Active Projects

- Interactive map (desktop / mobile friendly)
- Location of all active capital improvement facilities projects
- Project updates and informational material
- Additional items will continue to be included



www.mckinneytexas.org/ProjectStatus

Parks Department CIP Update

■ Voter-Authorized GO Bonds (2019 – Parks) (\$91M)

- *Diamond/Athletic Fields* \$3,000,000
- *Park Renovations* \$10,000,000
- *Rectangular Athletic Fields* \$12,000,000
- *Senior Recreation Center* \$35,000,000
- *Property Acquisition* \$30,000,000
- *Playground Replacement* \$1,000,000

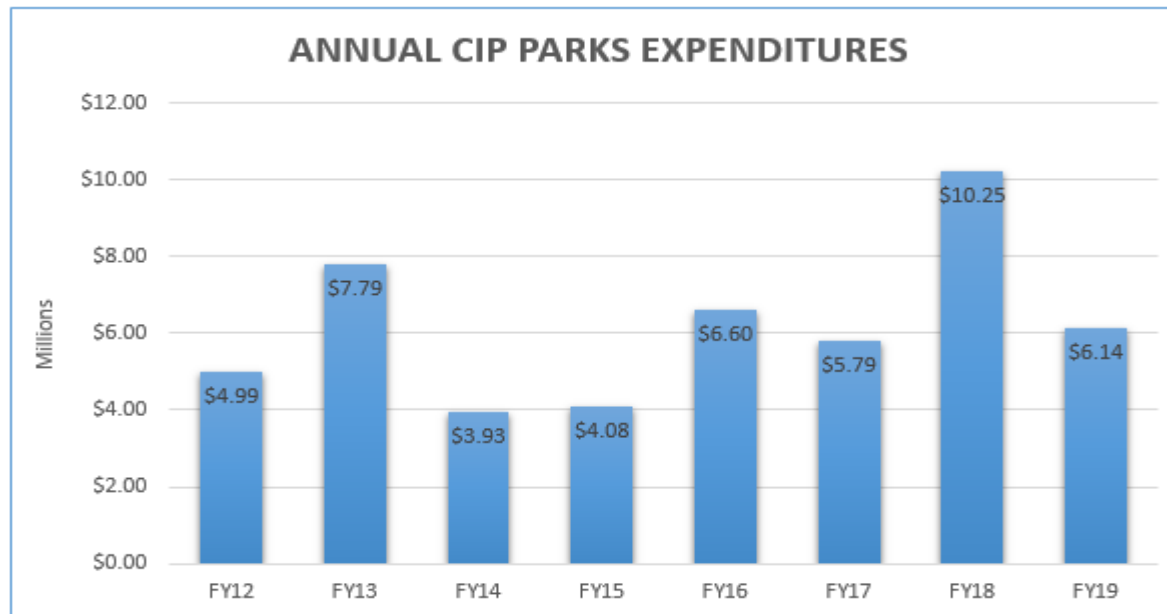


Updated Parks/Athletic Fields

Parkland Acquisition

New Senior Center

Playground Replacement



Parks – Completed Projects (Construction)



■ PK3222 – Bonnie Wenk Park Phase II

- *All abilities playground, 7 play areas, skywalk, lighted multi-purpose fields, restrooms, pavilions, trails, parking, and extension of the park road*
- *Construction Completed June 2019*

\$9.2M

Complete

■ PK1803 – Pavilion at Fitzhugh Park

- *New pavilion with picnic tables*
- *Construction completed April 2019*

\$195,000

Complete

■ PK1736 – Collin McKinney Median Improvements

- *Installation of trees, solid sod, and irrigation on medians between Stacy and Lake Forest*
- *Construction completed April 2019*

\$140,000

Complete

■ PK1735 – White Street Median Improvements

- *Installation of trees and irrigation on medians between US75 and Hardin*
- *Construction completed March 2019*

\$90,000

Complete

Parks – Completed Projects (Construction)



- **PK1823 – Juanita Maxfield Aquatic Center**
 - *New shade structures replaced the outdated sheds*
 - *Construction Completed May 2019*

\$175,000

Complete



Parks – Active Projects (Construction)



■ PK4396 – Gabe Nesbitt Tennis Expansion

- *12 new tennis courts, play structures, pavilions, restrooms, trails, redesign of the Green Garden, parking and a 3,000 sf maintenance facility with public restrooms and office space for parks personnel*
- *Construction expected to be complete August 2019*

\$9.6M

**85%
Complete**

■ PK3224 – George Webb Park

- *An 11 acre neighborhood park that includes play equipment, musical stations, pavilions, multi-use court, interactive dry riverbed, trails and open space*
- *Construction estimated to be complete July 2019*

\$2.6M

**90%
Complete**

■ PK1806 – Gabe Nesbitt Community Park Imp.

- *Road connection from the JJGL library to the park road; remaining areas of park to be completed with future projects*
- *Construction to be completed with the construction of the John and Judy Gay Library Expansion*

\$5.2M

**10%
Complete**

Parks – Active Projects (Planned)



■ PK1737 – Cottonwood Park Renovation

- *A complete redesign of the 3.2 acre park to include new play equipment, multi-use court, plaza with water feature, pavilion, parking, & open play area*
- *Design at 80% with construction estimated to begin winter 2019*

■ PK1211 – Finch Park Renovation Phase IV

- *Adding a looped 10' wide trail, 4 new pickleball courts, renovation of the existing tennis and basketball courts, new pavilions and parking*
- *Design at 90% with construction estimated to begin fall 2019*

■ PK1643 – Prosper ISD Park (Prestwyck)

- *A 10 acre neighborhood park to include a splash pad, pavilion, trails, playground equipment, multi use sport court, swings, landscaping, trees, open space and interactive play*
- *Design at 20% with construction estimated to begin early spring 2020*

Parks – Active Projects (Planned)



■ Fitzhugh Playground Replacement/Sport Court

- *Replace the 20 year old playground equipment as well as resurface the basketball court*
- *Design underway with construction estimated to begin fall 2019*

■ PK1830 – Robinson Ridge Neighborhood Park

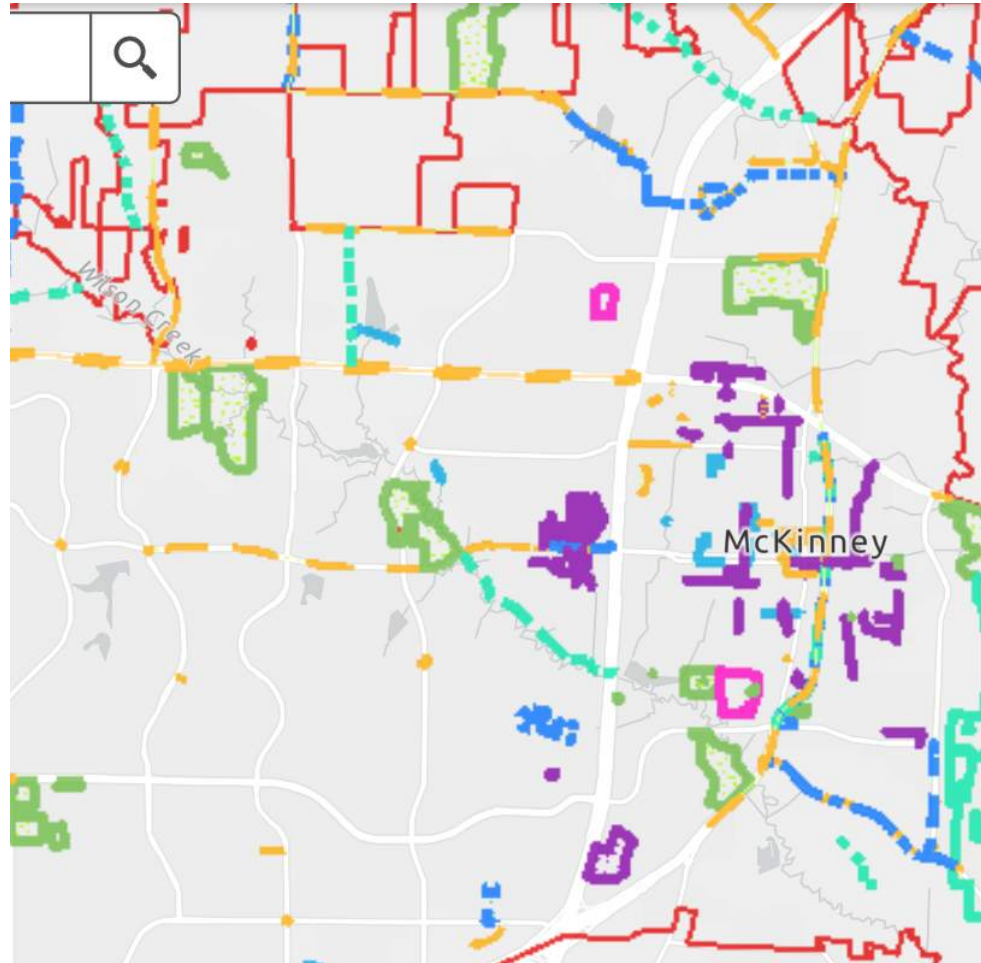
- *A future neighborhood park located within the Robinson Ridge subdivision*
- *Public input and Design to begin fall 2019*

■ Gabe Nesbitt Indoor Tennis Facility

- *Construct an indoor 6 court tennis facility as well as restrooms, offices, viewing platform and warm up area*
- *Conceptual Design Phase*

Parks CIP – Where to Get Information on Active Projects

- Interactive map (desktop / mobile friendly)
- Location of all active capital infrastructure projects.
- Project updates and informational material.
- Project schedules and funding.
- City staff contact information.
- Parks Projects shown in green
- More to come....



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