Capital Improvement Program Update

Council Work Session November 6, 2017



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

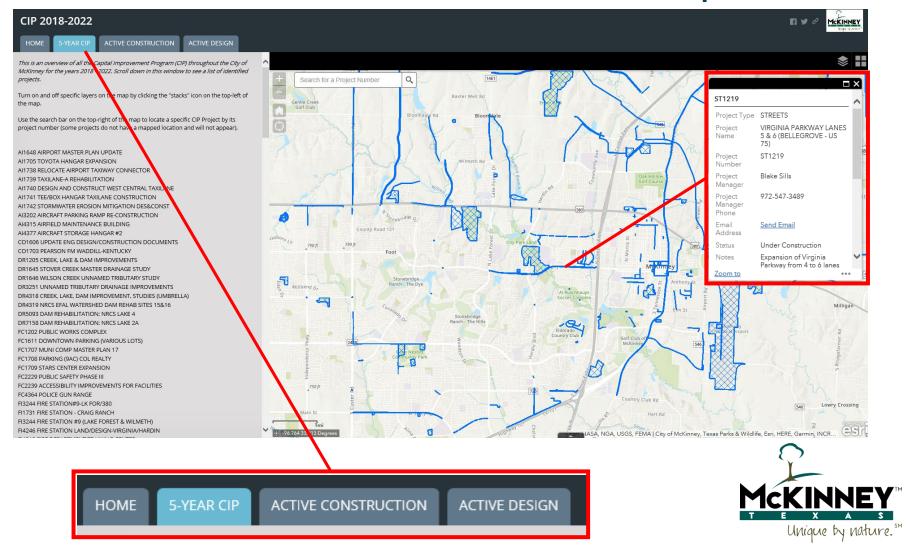
Mike Kowski, Park Construction Projects

Director of Parks & Recreation





New CIP Interactive Webmap



ACTIVE INFRASTRUCTURE PROJECT SUMMARY

COMBINED INFRASTRUCTURE PROJECTS					
PROJECT	DESCRIPTION	PHASE			
CO1606	Design Manual Updates	DESIGN			
CO1703	Pearson Avenue and Related Drainage Improvements	DESIGN			
CO1704	Substandard Utility & Street Rehab (East of SH 5)	DESIGN			
CO1705	Substandard Utility & Street Rehab (South of Virginia)	DESIGN			
CO1706	Substandard Utility & Street Rehab (North of Virginia)	DESIGN			
CO9151	Cole Street Reconstruction	CONSTRUCTION			





ENGINEERING DESIGN MANUAL UPDATE

CO1606

Description

Includes publishing of a new Engineering Design Manual to replace current Street, Drainage, Water/Wastewater Manuals (adopted in 2010). Also includes publishing of new Construction Standards and Specifications Manual.

Schedule / Status

- Current Status: 90% Complete
- Development Underway as of August 2016
- Estimated Manual Adoption End Q1 (2018)



Prof Serv: \$358,600







Engineering Design Manual







PEARSON AVE & RELATED DRAINAGE IMPROVEMENTS

CO1703

Description

Includes complete pavement rehabilitation along Pearson Ave (Waddill – Kentucky), replacement of wastewater main, and installation of storm drain system (West – Coleman).

Schedule / Status

- Current Status: Design (90% Complete)
- Design Underway as of February 2017
- Estimated Construction Early 2018



Prof Serv: \$322,807

Const: \$2.56MM (Est.)







SUBSTANDARD UTILITY & STREET REHAB PROJECTS (VARIOUS LOCATIONS)

CO1704, CO1705, CO1706

Description

Includes replacement of approximately 28,000 linear feet of water main and 23,000 linear feet of wastewater mains previously identified as being in substandard condition.

Schedule / Status

- Current Status: Design (60% Complete)
- Design Underway as of February 2017
- Estimated Construction Early 2018



Current Financial Summary

Prof Serv: \$1,140,096

Const: \$15MM (Est.)







COLE STREET RECONSTRUCTION

CO9151

Description

Includes a complete reconstruction of Cole Street from Bass Street to College Street including water, wastewater, storm drainage, and paving.

Schedule / Status

- Current Status: Construction (85% Complete)
- Construction Underway as of November 2016
- Estimated Completion November 2017



Const: \$2.31MM









ACTIVE INFRASTRUCTURE PROJECT SUMMARY

STREET INFRASTR	JCTURE PROJECTS	
ST1219/WA9145	Virginia Parkway Lanes 5 & 6 (Bellegrove - US 75)	CONSTRUCTION
ST1231	Virginia Parkway Lanes 5 & 6 (Ridge – Bellegrove)	CONSTRUCTION
ST1232	FM 546 Reconstruction	CONSTRUCTION
ST1612/ST1613	Redbud Blvd Lanes 3&4 and McLarry Drive Improvements	DESIGN
ST1615	US 380 and Airport Dr Intersection Improvements	DESIGN
ST1617	Ridge Rd (US 380 - Wilmeth)	DESIGN
ST1618	Arterial Capacity Improvements 380/Hardin, Westridge/Custer, Virginia/Ridge	DESIGN
ST1622	Street Rehab Umbrella FY17-18	CONSTRUCTION
ST1649	PROW ADA (Eastside)	DESIGN
ST3211 / ST1614	Hardin Lanes 5 & 6 McKinney Ranch Reconstruction	CONSTRUCTION
ST4227	Bloomdale Road Extension - Community to Hardin	DESIGN
ST4331	Laud Howell Parkway Design/Construction	DESIGN
ST4334	Stonebridge Bridge	DESIGN
ST4372	Country Lane Extension Project	DESIGN
ST4417	Hardin Fence	CONSTRUCTION
ST4422	Trinity Falls Parkway	RIGHT-OF-WAY
ST6093	Lake Forest Drive (Wilmeth – Bloomdale)	COMPLETE
ST9115	Custer Road Design & ROW (US 380 – FM 1461)	DESIGN



TRAFFIC INFRASTRUCTURE PROJECTS			
	TR1603	TAPS Pedestrian Safety Enhancements	BIDDING
1	TR1620/TR1702	FY 17 Traffic Signals	DESIGN



VIRGINIA PARKWAY LANES 5 & 6

ST1219, ST1231

Description

Includes the construction of an additional travel lane in each direction from east of Ridge Road to US 75.

Schedule / Status

- Current Status: Construction (35% Complete)
- Construction Underway as of February 2017
- Estimated Completion February 2019



Const: \$13.94MM









HARDIN LANES 5 & 6 / McKINNEY RANCH RECONSTRUCTION

ST1614, ST3211

Description

Includes construction of an additional lane in each direction along Hardin Blvd from SH 121 to McKinney Ranch Pkwy and reconstruction of McKinney Ranch Pkwy as a 4-lane divided roadway east of the MISD Stadium site.

Schedule / Status

- Current Status: Overall Construction (60% Complete)
- Construction Underway as of April 2017
- Estimated Completion February 2018



Const: \$3.37MM









ACTIVE INFRASTRUCTURE PROJECT SUMMARY

WATER INFRASTRUCTURE PROJECTS							
WA1624	Redbud Pump Station Transmission Line (794 PP)	CONSTRUCTION					
WA1625	University Pump Station - 920 PP Pump	DESIGN					
WA1626	McKinney Ranch Pump Station Improvements	DESIGN					
WA1629	Water Storage Tank Maintenance (Public Works Inspection List)	DESIGN					
WA4266	Club Lake 8-inch Water Line Loop	CONSTRUCTION					
WA4340	Redbud Pump Station Transmission Line (850 PP)	DESIGN					
WA4415	US 380 Water Line Improvements	DESIGN					
WA8132	Redbud Pump Station Site Development	BIDDING					
WAXXXX	Club Lake, Forest Hills, Lake Side Water Main Pipe Bursting	DESIGN					
WASTEWATI	ER INFRASTRUCTURE PROJECTS						
WW1623	US 75 & SRT Lift Station, Force Main, and Gravity Line	CONSTRUCTION					
WW2245	Aerial Wastewater Crossing Improvements – Erwin Avenue	RIGHT-OF-WAY					
WW3255	Aerial Wastewater Crossing Improvements – Jeans Creek	CONSTRUCTION					
WW4213	Oversize Participation Bloomdale (Stover Creek)	DESIGN					
WW4351	Sanitary Sewer Evaluation Survey (SSES)	DESIGN					
WW4366	Bloomdale Road Sanitary Sewer Trunk Line	COMPLETE					





ACTIVE INFRASTRUCTURE PROJECT SUMMARY

DRAINAGE INFRASTRUCTURE PROJECTS

DR1205	King's Lake Bank Stabilization Wall	CONSTRUCTION
DR1646	Glenwood Estates Creek Erosion Study	UNDERWAY
DR5093	NRCS Lake 4 Dam Rehabilitation	DESIGN





KING'S LAKE BANK STABILIZATION

DR1205

Description

Includes a bank stabilization wall in Stonebridge Lake downstream of a large culvert under Glen Oaks Drive and next to 604 King's Lake Drive. The wall collapsed while under construction in November 2015 and is now being repaired.

Schedule / Status

- Current Status: Contractor On-Site Mobilization
- 65 Calendar Day Expected Construction Duration from Notice to Proceed





Current Financial Summary

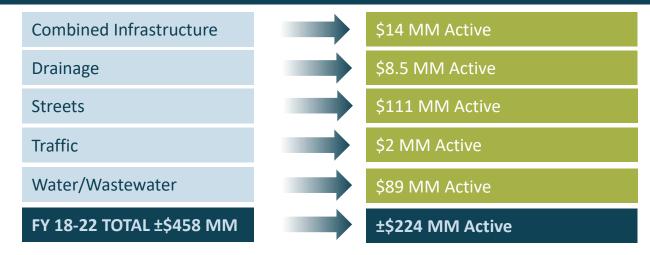
Prof Serv: \$115,000

Const: \$322,000



ACTIVE INFRASTRUCTURE PROJECT FINANCIAL SUMMARY

The FY 2018-2022 CIP includes programmed funding for the following infrastructure projects:







ACTIVE FACILITIES CONSTRUCTION PROJECT SUMMARY

PROJECT	DESCRIPTION	PHASE	APPROVED FUNDING	FY18-22 BUDGET
AI4377	McKinney Air Center Hangar #2 (MACH2)	CONSTRUCTION	\$ 1,500,000	\$ 1,500,000
IT1601	Council Chambers Audio/Visual Systems Upgrades	PUNCH LIST	\$ 913,000	\$ 913,000
FC1202	Public Works Master Plan & Fleet Expansion	MASTER PLAN COMPLETE	\$ 6,000,000	\$ 8,000,000
FC1611	Downtown Parking Lots #1 & #2	COMPLETE	\$ 1,295,525	\$ 1,295,525
FC1707	Future City Hall Master Planning	PROGRAMMING	\$ 336,800	\$ 336,800
FC1709	Dr Pepper StarCenter Expansion	PRE-DESIGN	\$ 10,750,000	\$ 10,750,000
FC2229	Public Safety Support Building	CONSTRUCTION	\$ 9,064,000	\$ 9,064,000
FC2239	Accessibility Improvements for Facilities	ONGOING	\$ 308,000	\$ 2,300,000
FI3244	Fire Station #9	CONSTRUCTION	\$ 8,556,505	\$ 8,556,505
LI1609	John & Judy Gay Library Expansion & Renovation	DESIGN	\$ 9,500,000	\$ 9,500,000





McKINNEY AIR CENTER HANGER #2 (MACH2)

AI4377

Description

Includes 10,000 square foot aircraft storage hangar at McKinney National Airport with appropriate parking and apron areas. Project delivery method is Competitive Sealed Proposal.

Schedule / Status

- Current Status: Construction (85% Complete)
- Design (100% Complete)
- Projected Completion November 2017



Current Financial Summary

Project Total: \$1.5 Million







DOWNTOWN PARKING LOTS (MDPL1 & MDPL2)

FC1611

Description

Includes 2 separate parking lots in downtown McKinney – one located at 308 N. Tennessee Street with 124 parking spaces and one located at 415 N. Kentucky Street with 47 parking spaces. Project delivery method was Competitive Sealed Proposal.

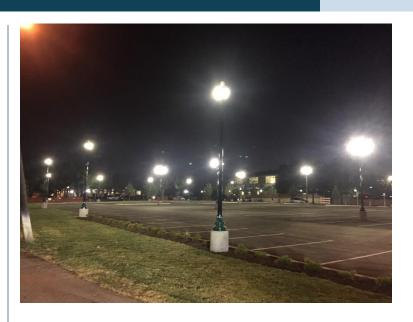
Schedule / Status

- Current Status: Construction (100% Complete)
- Design (100% Complete)
- Projected Completion September 2017



Project Total: \$0.9 Million







FIRE STATION #9 (MFS9)

FI3244

Description

Includes 15,000 square foot fire station with 3 apparatus bays, interior areas for up to 10 on-site personnel along with a community room with appropriate parking and apron areas. Project delivery method is Construction Manager at Risk.

Schedule / Status

- Current Status: Construction (75% Complete)
- Design (100% Complete)
- Projected Completion November 2017



Current Financial Summary

Project Total: \$8.56 Million







PUBLIC SAFETY – SUPPORT BUILDING (MPSB-SB)

FC2229

Description

Includes 27,000 square foot Public Safety support building that will house spaces such as the Police Department's crime lab, property storage and quartermaster, as well as, the Fire Department's logistics warehouse, bunker gear and various work rooms. Project delivery method is Construction Manager at Risk.

Schedule / Status

- Current Status: Construction (80% Complete)
- Design (100% Complete)
- Projected Completion November 2017



Current Financial Summary

Project Total: \$9.1 Million







DR PEPPER STARCENTER EXPANSION (DPSCE)

FC1709

Description

Includes approximately 46,000 square feet with one additional sheet of ice and the various locker room and team spaces needed. Project delivery method is Design / Build (D/B).

Schedule / Status

- Current Status: D/B Team under evaluation
- Design (0% Complete)
- Projected Completion November 2018



Project Total: \$8.5 Million







JOHN & JUDY GAY LIBRARY – EXPANSION & RENOVATION (JJGL-E&R)

LI1609

Description

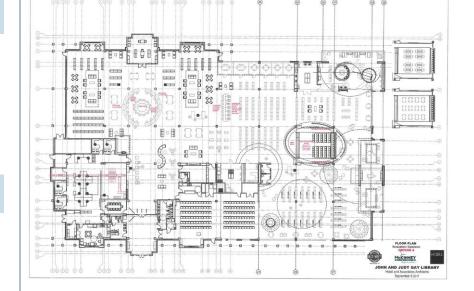
Includes approximately 20,000 square feet of additional space essentially doubling the capacity of the library with appropriate new areas for various collections. Project delivery method is Construction Manager at Risk.

Schedule / Status

- Current Status: In Design
- Design (10% Complete)
- Projected Completion Summer 2019



Project Total: \$9.5 Million







ACTIVE PARKS PROJECT SUMMARY

PROJECT	DESCRIPTION	PHASE	AP	PROVED FUNDING	FY	18-22 BUDGET
PK1213	HIKE AND BIKE TRAIL CONSTRUCTION	ONGOING	\$	1,020,000	\$	2,020,000
PK1701	LAND ACQUISITION (UMBRELLA)	ONGOING	\$	2,800,166	\$	2,800,166
PK1735	FY17-18 ZONE J MEDIAN ESCROW	ONGOING	\$	90,000	\$	90,000
PK1736	FY17-18 ZONE I MEDIAN ESCROW	ONGOING	\$	140,000	\$	140,000
PK4325	PARKS ACCESSIBILITY	ONGOING	\$	513,369	\$	1,513,369
PK1643	PROSPER ISD PARK (PRESTWYCK)	LAND ACQUISITION	\$	2,000,000	\$	2,000,000
PK9138	STACY ROAD/ROWLETT CREEK H/B - SPCA	LAND ACQUISITION	\$	540,000	\$	540,000
PK1211	FINCH PARK PHASE IV	PLANNING	\$	2,000,000	\$	2,000,000
PK1737	COTTONWOOD PARK	PLANNING	\$	150,000	\$	1,000,000
PK4392	RAUSCHHAUPT RESTROOM RENOVATION	PLANNING	\$	500,000	\$	1,000,000
PK4394	SENIOR CENTER EXPANSION	PLANNING	\$	1,500,000	\$	9,500,000
PK9143	ERWIN PARK DEV - PHASE I	PLANNING	\$	200,000	\$	2,000,000
PK2206	GRAY BRANCH COM. MASTER PLAN	PRE-DESIGN	\$	1,435,333	\$	30,000,000
PK3224	GEORGE WEBB PARK	DESIGN	\$	2,425,000	\$	2,425,000
PK4396	GABE NESBITT TENNIS EXPANSION	BIDDING	\$	7,000,000	\$	7,000,000
PK1644	GOLD STAR FAMILY MEMORIAL	CONSTRUCTION	\$	165,000	\$	165,000
PK3222	BONNIE WENK PARK PHASE II	CONSTRUCTION	\$	8,391,031	\$	8,391,031
PK4326	COMEGYS CREEK HIKE AND BIKE TRAIL	CONSTRUCTION	\$	1,133,000	\$	1,133,000
K4413	ROWLETT CREEK H/B - 121	CONSTRUCTION	\$	620,000	\$	620,000
K4414	COMMUNITY CENTER PLAYGROUND	CONSTRUCTION	\$	130,000	\$	130,000
K8062	WILSON CREEK HIKE AND BIKE TRAIL	CONSTRUCTION	\$	986,700	Ś	986,700





PARK ACCESSIBILITY PK4325

Description

Replace and repair areas that are out of ADA compliance. Address citizen complaints as they arise as well as implement the ADA transition plan.



- Current Status: Addressing complaints for ADA swings at several park sites. Added accessible ramp into swing pod at Mary Will Craig Park.
- Completed Artificial Turf Replacement at Al Ruschhaupt Playground



Project Total: \$250,000 Annually













STACY ROAD/ROWLETT CREEK/HIKE AND BIKE TRAIL

PK9138

Description

Includes a 12' concrete hike and bike trail under grade crossing at Stacy Road and Rowlett Creek.

Schedule / Status

- Current Status: Negotiating Land Acquisition
- Design on hold until easement/land is acquired.



Current Financial Summary

Project Total: \$500,000





SENIOR CENTER EXPANSION

PK4394

Description

Renovate the existing facility, increase parking, and add approximately 13,000 SF, effectively doubling the size of the current building.

Schedule / Status

Current Status: Selection of Design Team





Current Financial Summary

Project Total: \$7,000,000



GRAY BRANCH MASTER PLAN

PK2206

Description

Master plan a 212 acre community park that includes lighted ball fields.

Schedule / Status

- Current Status: Design Contract in negotiations
- Update to existing Master Plan
- Total construction project: +/- \$30 Million



Current Financial Summary

Project Total: \$935,000



GRAY BRANCH 212 ACRES

Origianal - 100 acres - 2009 Additional - 50 acres - 2013 62 acres - 2016



GEORGE WEBB PARK PK3224

Description

An 11 acre neighborhood park that includes a play structure, musical stations, pavilions, basketball court, interactive dry riverbed, trails, and open space.

Schedule / Status

- Current Status: Construction documents in development
- Design (30% Complete)



Project Total: \$2.4 Million







GABE NESBITT TENNIS CENTER EXPANSION

PK4396

Description

Includes 12 additional tennis courts, play structures, pavilions, restrooms, open space, trails, additional parking and a 3,000 square foot maintenance facility that includes public restrooms and a small office

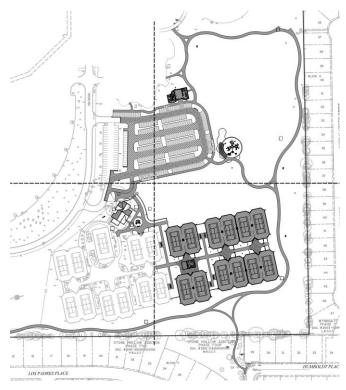
Schedule / Status

- Current Status: Advertise to bid October 2017
- Design (100% Complete)



Current Financial Summary

Project Total: \$7 Million





GOLD STAR FAMILY MEMORIAL

PK1644

Description

Includes granite monument and eight lighted flag poles.

Schedule / Status

- Current Status: Construction (75% Complete)
- Design (100% Complete)
- Projected Completion December 2017



Project Total: \$165,000











BONNIE WENK PARK PHASE II

PK3222

Description

Includes two lighted multi-purpose fields, an all inclusive play structure, restrooms, pavilions, trails, parking, and the extension of the park road to Hardin Blvd.

Schedule / Status

- Current Status: Construction (50% Complete)
- Design (100% Complete)
- Projected Completion June 2018



Project Total: \$8.4 Million









COMEGYS HIKE AND BIKE TRAIL

PK4326

Description

Includes a 12' concrete hike and bike trail connection from Malvern Elementary to the McKinney Community Center.

Schedule / Status

- Current Status: Construction (90% complete)
- Design (100% Complete)
- Projected Completion November 2017



Project Total: \$1,043,000







ROWLETT CREEK/121 HIKE AND BIKE TRAIL

PK4413

Description

Includes a 12' concrete hike and bike trail connection from the City of Allen trail under Sam Rayburn Tollway (SRT) to the hike and bike trail at the TCP Golf Course.

Schedule / Status

- Current Status: Construction Substantially Complete
- Design (100% Complete)
- Projected Completion October 2017



Project Total: \$540,000



Looking south towards SRT at Craig Ranch Parkway



On the bridge overpass trail looking north down on the trail leading underneath SRT





MCKINNEY COMMUNITY CENTER PLAYGROUND

PK4414

Description

Includes a 5-12 year old (age group) play structure and swings.

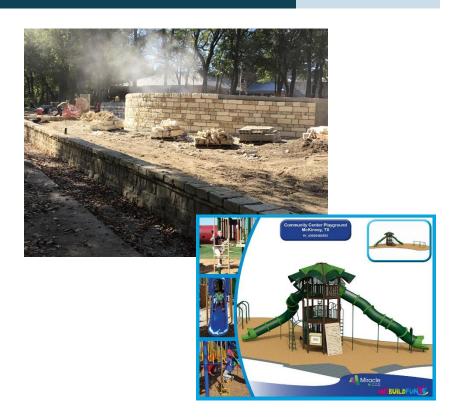
Schedule / Status

- Current Status: Equipment on Order
- Design (100% Complete)
- Projected Completion December 2017

Current Financial Summary

Project Total: \$130,000







WILSON CREEK HIKE AND BIKE TRAIL

PK8062

Description

Includes a 12' concrete hike and bike trail connection from Grady Littlejohn Ballfields to Eldorado Parkway.

Schedule / Status

- Current Status: Construction Substantially Complete
- Design (100% Complete)
- Projected Completion November 2017

Current Financial Summary

Project Total: \$708,000





