Capital Improvement Program Update

Council Work Session April 16, 2018





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





ACTIVE COMBINED INFRASTRUCTURE PROJECT OVERVIEW

COMBINED INFRASTRUCTU	D INFRASTRUCTURE PROJECTS				
PROJECT	DESCRIPTION	PHASE			
CO1606	Design Manual Updates	COMPLETE			
CO1703	Pearson Avenue and Related Drainage Improvements	PRE-CONSTRUCTION			
CO1704, CO1705, CO1706	Substandard Utility & Street Rehabilitation Projects	PRE-CONSTRUCTION			
CO9151	Cole Street Reconstruction	COMPLETE			



On the horizon...

- Town Center Infrastructure Improvement (FY18-19)
- Gateway (Southgate) Infrastructure Improvements
- Substandard Main Improvements (FY18-19)



COMBINED INFRASTRUCTURE PROJECT OVERVIEW

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: Bid Phase
- Estimated Construction Starting June 2018



Current Financial Summary

Prof Serv: \$322,807

Const: \$2.56MM (Est.)





COMBINED INFRASTRUCTURE PROJECT OVERVIEW

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. The project also includes rehabilitation of pavement in some locations.

Schedule / Status

- Current Status: Pre-Construction
- Estimated Construction Summer 2018



Current Financial Summary

Prof Serv: \$1,140,096

Const: \$15MM (Est.)







COMBINED INFRASTRUCTURE PROJECT OVERVIEW

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 Complete



Const: \$2.31MM







ACTIVE STREET INFRASTRUCTURE PROJECT SUMMARY

STREET INFRASTR	UCTURE 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	ONGOING
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)	RIGHT-OF-WAY



On the horizon...

- SH 5 / McDonald St Improvements (TxDOT Led Planning Ongoing)
- Intersection Capacity Improvements (FY18-19)
- Street Rehabilitation Program (FY18-19)

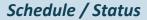


VIRGINIA PARKWAY LANES 5 & 6

ST1219, ST1231

Description

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



- Current Status: Construction underway as of February 2017
 - West Phase 95% Complete
 - East Phase 35% Complete
- Estimated Completion February 2019



Const: \$13.94MM











FM 546 CONSTRUCTION (TxDOT)

ST1232

Description

Includes construction of FM 546 as a new location 4-lane divided roadway (6-lane ultimate) from SH 5 to existing FM 546 located south of McKinney National Airport

Schedule / Status

- Current Status: Overall Construction (75% Complete)
- Construction Underway as of May 2016
- Estimated Completion October 2018



Current Financial Summary

Const: \$17.4MM*

*Partial City Contribution







MCKINNEY RANCH PARKWAY CONSTRUCTION

ST1614

Description

Includes the reconstruction of McKinney Ranch Parkway as a 4-lane divided roadway from the eastern limits of the McKinney ISD Stadium Site to US 75

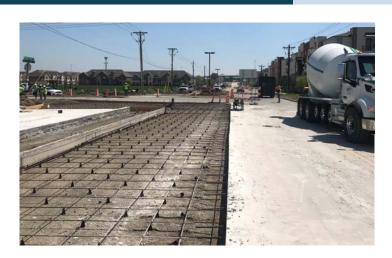
Schedule / Status

- Current Status: Overall Construction (90% Complete)
- Construction Underway as of April 2017
- Estimated Completion May 2018



Const: \$1.7MM







BLOOMDALE ROAD EXTENSION (HARDIN TO COMMUNITY)

ST4227

Description

Includes the extension of Bloomdale Road as a 4lane divided roadway (6-lane ultimate) from its current terminus at Community Ave to West of Hardin Boulevard (CR 164)

Schedule / Status

- Current Status: Design (75% Complete)
- Design Underway as of January 2017
- Estimated Construction Start: September 2018



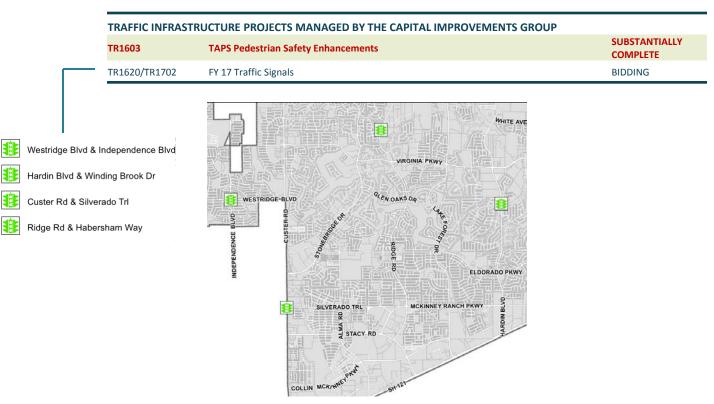
Const: \$9.5MM







ACTIVE TRAFFIC PROJECT SUMMARY





On the horizon...

• Traffic Signal Installation (FY18-19)



ACTIVE WATER INFRASTRUCTURE PROJECT SUMMARY

WATER INFR	ASTRUCTURE PROJECTS	
WA1624	Redbud Pump Station Transmission Line (794 PP)	CONSTRUCTION
WA1625	University Pump Station - 920 PP Pump	DESIGN
WA1626	McKinney Ranch Pump Station Improvements	PRE-DESIGN
WA1630	Custer Road Utility Relocations	DESIGN
WA1805	Virginia Elevated Storage Tank Maintenance	DESIGN
WA4202	Water Master Plan Update	DESIGN
WA4266	Club Lake 8-inch Water Line Loop	COMPLETE
WA4340	Redbud Pump Station Transmission Line (850 PP)	DESIGN
WA4415	US 380 Water Line Improvements	DESIGN
WA8132	Redbud Pump Station Site Development	CONSTRUCTION



On the horizon...

- Updated Water Master Plan and Impact Fee Assessment
- SH 5 Utility Relocations



VIRGINIA ELEVATED STORAGE TANK MAINTENANCE

WA1805

Description

Includes assessment, design, and implementation of maintenance needs to the existing elevated water storage tank at Custer Rd and Virginia Pkwy.

Schedule / Status

- Current Status: Design (Assessment Complete)
- Design Underway as of December 2017
- Estimated Construction Start: Fall 2019*

*Pending construction of US 380 WL Improvements (WA4415)



Est. Const: \$750,000









ACTIVE WASTEWATER INFRASTRUCTURE PROJECT SUMMARY

WASTEWATER INFRASTRUCTURE PROJECTS						
WW1623	US 75 & SRT Lift Station, Force Main, and Gravity Line	COMPLETE				
WW2245	Aerial Wastewater Crossing Improvements – Erwin Avenue	RIGHT-OF-WAY				
WW3255	Aerial Wastewater Crossing Improvements – Jeans Creek	COMPLETE				
WW4209	Wastewater Master Plan Update	DESIGN				
WW4213	Oversize Participation Bloomdale (Stover Creek)	PRE-CONSTRUCTION				
WW4351	Sanitary Sewer Evaluation Survey (SSES)	DESIGN				



On the horizon...

- Updated Wastewater Master Plan and Impact Fee Assessment
- Wastewater Main Lining/Rehabilitation
- Future Oversize Participation



ACTIVE DRAINAGE INFRASTRUCTURE PROJECT SUMMARY

DRAINAGE INFRASTRUCTURE PROJECTS

DR1205	King's Lake Bank Stabilization Wall	COMPLETE
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DR1646 Glenwood Estates Creek Erosion Study UNDERWAY

DR5093 NRCS Lake 4 Dam Rehabilitation BIDDING









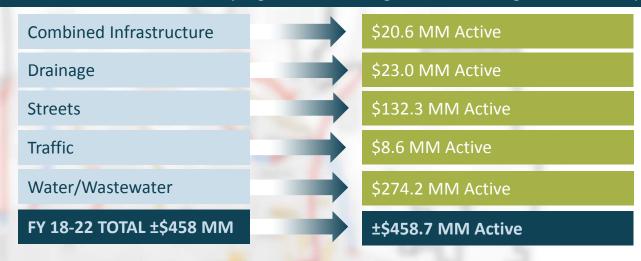
On the horizon...

- Hill Street Pedestrian Bridge Replacement
- Warden Creek Watershed Study
- Finch Creek Watershed Study



ACTIVE INFRASTRUCTURE PROJECT FINANCIAL SUMMARY

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



On the horizon...

 Recommendation of FY19-23 CIP (Including proposed CIP adjustments based on SB 6 legislation)

ACTIVE FACILITIES CONSTRUCTION PROJECT SUMMARY

PROJECT	DESCRIPTION	PHASE	APPROVED FUNDING	FY18-22 BUDGET
AI4377	McKinney Air Center Hangar #2 (MACH2)	COMPLETE	\$ 1,500,000	\$ 1,500,000
FC1202	Public Works Master Plan & Fleet Expansion	MASTER PLAN COMPLETE	\$ 6,000,000	\$ 8,000,000
FC1707	Future City Hall Master Planning	PROGRAMMING COMPLETE	\$ 336,800	\$ 336,800
FC1709	Dr Pepper StarCenter Expansion	DESIGN/PRECONSTRUCTION	N \$ 12,960,000	\$ 12,960,000
FC2229	Public Safety Support Building	COMPLETE	\$ 9,064,000	\$ 9,064,000
FC2239	Accessibility Improvements for Facilities	ONGOING	\$ 308,000	\$ 2,300,000
FI1734	Fire Station #10	DESIGN	\$ 7,650,000	\$ 10,750,000
FI3244	Fire Station #9	COMPLETE	\$ 8,556,505	\$ 8,556,505
LI1609	John & Judy Gay Library Expansion & Renovation	DESIGN	\$ 9,500,000	\$ 9,500,000
GRANT	MPAC Exterior Restoration	PROGRAMMING	\$ 150,000	\$ 150,000





DR PEPPER STARCENTER EXPANSION (DPSCE)

FC1709

Description

Includes approximately 52,000 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).

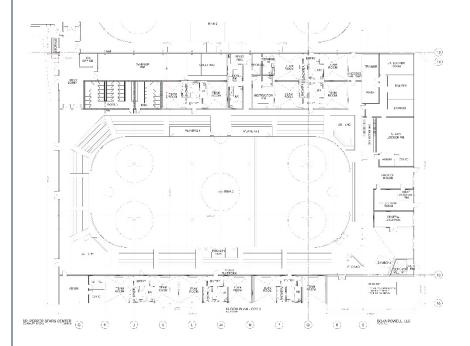
Schedule / Status

- Current Status: D/B to Council June 2018
- Design (10% Complete)
- Projected Completion March 2019



Current Financial Summary

Project Total: \$12.9 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

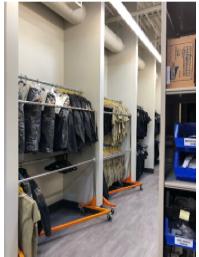
- Current Status: Construction (Complete)
- Design (Complete)



Current Financial Summary

Project Total: \$9.1 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 (Complete)
- Design (Complete)



Project Total: \$8.56 Million









FIRE STATION #10 (MFS10) – TRINITY FALLS

FI1734

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 (0% Complete)
- Design (10% Complete)
- Projected Completion May 2020



Current Financial Summary

Project Total: \$10.75 Million





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

LI1609

Description

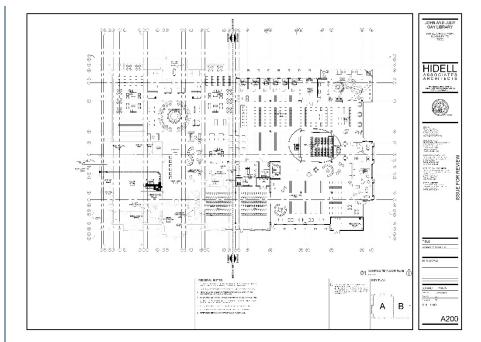
Includes approximately 20,000 square foot of additional interior library space as well as renovation of some of the existing spaces. Project delivery method is Construction Manager at Risk.

Schedule / Status

- Current Status: Construction (0% Complete)
- Design (30% Complete)
- Projected Completion Fall 2019

Current Financial Summary

Project Total: \$9.5 Million







ACTIVE PARKS PROJECT SUMMARY

ROJECT	DESCRIPTION	PHASE APPROVED FUNDING		FY1	FY18-22 BUDGET	
K1213	HIKE AND BIKE TRAIL CONSTRUCTION	ONGOING	\$	270,000	\$	1,270,000
K1701	LAND ACQUISITION (UMBRELLA)	ONGOING	\$	2,300,166	\$	2,300,166
K1735	FY17-18 ZONE J MEDIAN ESCROW	ONGOING	\$	90,000	\$	90,000
K1736	FY17-18 ZONE I MEDIAN ESCROW	ONGOING	\$	140,000	\$	140,000
K4325	PARKS ACCESSIBILITY	ONGOING	\$	650,000	\$	1,513,369
K1643	PROSPER ISD PARK (PRESTWYCK)	LAND ACQUISITION	\$	2,000,000	\$	2,000,000
K9138	STACY ROAD/ROWLETT CREEK H/B - SPCA	LAND ACQUISITION	\$	540,000	\$	540,000
K1211	FINCH PARK PHASE IV	PLANNING	\$	2,000,000	\$	2,000,000
K4392	RUSCHHAUPT RESTROOM RENOVATION	PLANNING	\$	500,000	\$	1,000,000
K4394	SENIOR CENTER EXPANSION	PLANNING	\$	1,500,000	\$	5,500,000
K9143	ERWIN PARK DEV - PHASE I	PLANNING	\$	200,000	\$	2,000,000
K1737	COTTONWOOD PARK	DESIGN	\$	150,000	\$	1,000,000
K2206	GRAY BRANCH COM. MASTER PLAN	DESIGN	\$	1,435,333	\$	4,435,333
K1803	PAVILION AT FITZHUGH PARK	DESIGN	\$	135,000	\$	135,000
K1806	GABE NESBITT COMMUNITY PARK IMPROVEMENTS	DESIGN	\$	1,250,000	\$	1,250,000
K3224	GEORGE WEBB PARK	BIDDING	\$	2,425,000	\$	2,425,000
K4396	GABE NESBITT TENNIS EXPANSION	CONSTRUCTION	\$	9,600,000	\$	9,600,000
K3222	BONNIE WENK PARK PHASE II	CONSTRUCTION	\$	8,391,031	\$	8,391,031
K4326	COMEGYS CREEK HIKE AND BIKE TRAIL	COMPLETED	\$	1,043,000	\$	1,043,000
K1802	PLAYGROUND @ TOWNE LAKE	COMPLETED	\$	8,391,031	\$	8,391,031
K1803	PLAYGROUND @ WINNIFORD PARK	COMPLETED	\$	8,391,031	\$	8,391,031
K4413	ROWLETT CREEK H/B - 121	COMPLETED	\$	620,000	\$	620,000
K4414	COMMUNITY CENTER PLAYGROUND	COMPLETED	\$	130,000	\$	130,000
K8062	WILSON CREEK HIKE AND BIKE TRAIL	COMPLETED	Ś	986,700	\$	986,700





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 for Needs Assessment





Total projected budget to be determined through needs assessment and project scope







COTTONWOOD PARK

PK1737

Description

Cottonwood Park is a 3.2 acre park that is planned for complete redesign and upgrades to existing amenities through the master planning process

Schedule / Status

Current Status: Master Plan in Progress to determine project scope

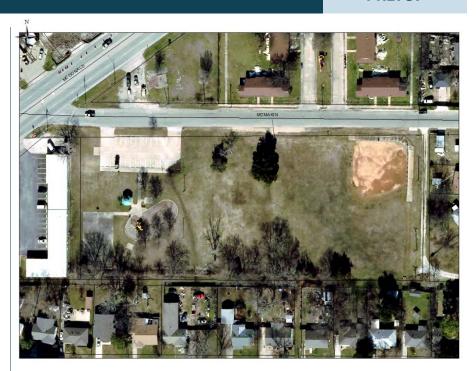
Current Financial Summary

Approved Funding: \$150,000 Master Plan: \$ 47,250 \$102,750 Remaining Budget:

Total projected budget to be determined through the master planning process











GRAY BRANCH MASTER PLAN

PK2206

Description

Master plan a 212 acre community park that could include lighted sports fields, parking, future recreation center, trails, natural features and park amenities

Schedule / Status

Current Status: Master Plan in Progress

Current Financial Summary

Approved Funding: \$1,435,333

Master Plan: \$ 224,500

Remaining Budget: \$1,210,833

Total projected budget to be determined through the master planning process



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 bidding in May

Design (95% Complete)



Current Financial Summary

Project Total: \$2.4 Million (includes design and construction)





BONNIE WENK PARK PHASE II

PK3222

Unique by nature."

Description

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

Schedule / Status

Current Status: Construction (85% Complete)

Design (100% Complete)

Projected Completion – July 2018



Current Financial Summary

Project Total: \$8,391,031 (includes design and construction)





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: Construction began February 2018

Projected Completion – February 2019



Current Financial Summary

Project Total: \$9,600,000 (includes design and construction)









GOLD STAR FAMILY MEMORIAL at VETERANS MEMORIAL PARK

PK1644

Unique by nature."

Description

Construction of a granite monument to honor the families of fallen soldiers along with eight lighted flag poles.

Schedule / Status

Current Status: Construction Complete



Project Total: \$165,000





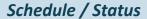
COMEGYS HIKE AND BIKE TRAIL

PK4326

Unique by nature."

Description

Includes a 12' concrete hike and bike trail connection from Malvern Elementary to the McKinney Community Center along with a trail head with seating and signage



Current Status: Construction Complete



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. This connection is part of the 6 Cities Trail.

Schedule / Status

Current Status: Construction Complete



Looking south towards Sam Rayburn Tollway where the trail connects to the City of Allen along Rowlett Creek



Current Financial Summary

Project Total: \$620,000



PLAYGROUNDS

Description

Added a new play structure at the McKinney Community Center; Replaced aging play structures at Towne Lake and Winniford Parks in addition to adding new swings

Schedule / Status

- Community Center Completed March 2018
- Winniford Park Completed April 2018
- Towne Lake Completed February 2018



Current Financial Summary

Community Center: \$130,000

Winniford Park: \$ 75,000

Towne Lake: \$165,000

New Community Center Playground



Winniford Before



Towne Lake Before



Winniford After



Towne Lake After



WILSON CREEK HIKE AND BIKE TRAIL

PK8062

Description

Includes a 12' concrete hike and bike trail connection from Grady Littlejohn Ballfields to Eldorado Parkway along with a trailhead with seating and educational signage.

Schedule / Status

- Current Status: Construction Complete
- Design (100% Complete)





Current Financial Summary

Project Total: \$986,700



FITZHUGH PARK PK1803

Description

A new pavilion with picnic tables (similar to the one in Finch Park) will be constructed near the play structure; a drinking fountain has been installed along the walking trail.

Schedule / Status

Current Status: In Design





Approved Funding: \$135,000 Design: \$12,998 Remaining Budget: \$122,002







GABE NESBITT IMPROVEMENTS

PK1806

Description

In conjunction with the John and Judy Gay Library expansion, a park road linking the library to the park road internal to Gabe Nesbitt will be constructed, along with additional parking. An update to the Gabe Nesbitt Master Plan will also occur.

Schedule / Status

Current Status: In Design

Current Financial Summary



Project Total: \$1,250,000 Master Plan: \$22,000 Remaining Budget: \$1,228,000

