

SMART INFRASTRUCTURE UPDATE

# KANSAS CITY'S CAPITAL IMPROVEMENT PROJECTS

FISCAL YEAR 2020



FEBRUARY 19, 2019



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# WELCOME

Each February, we have the unique privilege of looking ahead at the plans Kansas City has for strengthening the infrastructure that supports the future of our city—and the opportunity to define what role we will play in that vision.

February also brings us the opportunity to look back at where we have traveled, and it is often our past that defines and brings value to our future.

Kansas City has seen many changes over the last several years, and it is certain that we will witness more in the coming year. However, change for the sake of change alone isn't meaningful: It is what we do with change that defines our outcome.

Kansas City has a legacy of breaking the stereotypes often placed upon this "Show Me State" and this "Fly Over Town." We have a history of setting the standard for innovation and perseverance. We face challenges head on. We adapt. We innovate. We transform. Kansas City builds the gateway to the future.

It is my honor to welcome you to Kansas City's seventh annual capital improvements update. Kansas City's promise of investment and innovation lays before you in the coming pages. Now, more than ever before, it is our time to stand up and take our place in the pages of our nation's history.



Andy Shively, PE  
*Special Assistant City Manager*

# CITY INFRASTRUCTURE HIGHLIGHTS

## AVIATION KANSAS CITY INTERNATIONAL AIRPORT

On Thursday, February 8, 2018, the City Council voted to approve the Memorandum of Understanding (MOU) with Edgemoor Infrastructure. The new MOU includes a revised \$28.9 million community benefits agreement with money for child care and free busing for those working on the project. The modern and uniquely Kansas City, Missouri, terminal that voters approved in November is back on track to open in 2022, on time and on budget.

A two-story fountain anchors the sleek, modern, initial design concepts, and convenience for travelers is a major element of the design as well. The design features close-in parking, and a two-level curbside pick-up and drop-off area which will be faster and more convenient for travelers. Also, waiting areas at each gate will have room for the increased number of passengers on today's planes.



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PARKS &  
RECREATION

## KANSAS CITY CAMPUS FOR ANIMAL CARE

Currently under construction in Swope Park, the Kansas City Campus for Animal Care project will serve as the site of KC Pet Project and provide services to over 10,000 animals and 25,000 families throughout Kansas City. The campus will also be home to a full-service veterinary clinic, an education pavilion, a retail pet supplies store, a café, patios, walking paths, and in the future, the City's Animal Health & Public Safety. This facility in Swope Park will create a new, state-of-the-art benchmark for animal welfare in America.

## BRUSH CREEK CONFLUENCE TRAIL

In October 2018, KC Parks unveiled a new trail and pedestrian bridge over Brush Creek in Blue Banks Park, connecting Brush Creek Trail, Cleaver II Trail and the Blue River Trail. In addition to providing an opportunity to explore nature, the new trail also functions as a pedestrian corridor for access to Swope Park, The Plaza, VA Hospital, Vineyard Park, Blue Banks Park, and area restaurants and businesses.

## TROLLEY TRAIL BIKE & PET OASIS

KC Parks completed the Trolley Trail Bike and Pet Oasis located next to the newly remodeled HJ Youth & Community Center in Brookside this past July. The project is a public/private partnership between the KCATA, City of Kansas City, Missouri and the St. Andrews outreach ministry of HJ's Youth & Community Center. The bike repair station is the second to be funded along a sixth district trail in South Kansas City as an effort to support bike usership in the region.

## CLIFF DRIVE & SPIRIT OF KC SCENIC BYWAYS TRAIL

On June 1, 2018, KC Parks celebrated the official opening of the new multipurpose trail connecting Cliff Drive in Kessler Park to the River Market and the Riverfront Heritage Trail. The project features 3,951 square feet of new concrete sidewalk, 22 ADA ramps and trail signage.

# CITY INFRASTRUCTURE HIGHLIGHTS

## PUBLIC WORKS/ GO BONDS

### APWA ACCREDITATION DESIGNATION

In 2018, the City of Kansas City, Missouri, Public Works Department was awarded the American Public Works Association (APWA) Accreditation designation. The APWA Accreditation program recognizes public works agencies that go beyond the requirements of the management practices established nationally in the public works industry.

### GO BONDS

On April 4, 2017, Kansas City voters overwhelmingly approved an \$800 million comprehensive capital improvements program to use revenue created by issuing general obligation bonds each year for 20 years to pay for long deferred infrastructure improvements across the city. The program, branded GO KC, includes a variety of projects that make Kansas City a better community. Here are a few of the highlights:

#### North Oak Trafficway Improvements

In October 2018, the City began reconstruction of North Oak Trafficway from Indianola Drive to the city limits of North Kansas City. The project includes new pavement, curbs and gutters, transit stop improvements, streetlight upgrades, water lines and storm sewer improvements. This complete street project also brings improved bicycle and pedestrian access with the addition of sidewalks on both sides, and a multi-use path for pedestrians and bicycles on the southern portion. This multi-use path will connect to bike facilities in the city of North Kansas City.

#### Wornall Road Reconstruction

The reconstruction of Wornall Road from 85th to 89th Streets began in July 2018. Improvements underway include replacing pavement, curbs and gutters, streetlight upgrades, water lines and storm sewer improvements, and improved pedestrian access with sidewalks on both sides of the roadway. The project will be completed before the spring of 2019.

### Bike KC

Kansas City Public Works is committed to implementing roadway improvements to better accommodate multi-modal travel. This effort includes construction of bike facilities city-wide. The City recently completed construction of the first parking-protected bike lanes on Armour Boulevard and the Downtown Bike Loop project. Both projects have brought unprecedented connections for cyclists throughout the City. Designated bike lanes and bikeways are in planning and development for Armour Boulevard, Benton Boulevard, The Paseo/Dr. Martin Luther King Jr. Boulevard, Downtown, Lexington/Gladstone and Charlotte/Holmes.

### Sidewalk Repairs & ADA Corners

In April 2018, the City began pouring concrete for the first round of GO KC Sidewalk repairs, making good on the promise to add or enhance sidewalks throughout Kansas City over the next 20 years. This program will systematically evaluate, repair and replace sidewalks: the goal is to make it through two city-wide cycles over 20 years. Systematic sidewalk inspections began in concert with construction of a shovel-ready backlog of spot repairs reported through 311. About \$6 million is slated to be spent initially to reduce this backlog. An additional \$1.5 million will be used to increase accessibility along sidewalks with ADA curb ramp upgrades.



# CITY INFRASTRUCTURE HIGHLIGHTS

## KC WATER SHOAL CREEK PUMP STATION

Situated near NE Barry Road and Shoal Creek Parkway, the Shoal Creek Pump Station was completed in 2018 to provide additional water services to the northern portions of Kansas City. This \$5 million infrastructure investment was constructed to pump 15 million gallons of water a day from the north direct system into the north booster pressure system. This booster provides higher pressure north of Highway 152, and will serve the Northland as it continues to grow.

## DODSON INDUSTRIAL FLOOD CONTROL PROJECT

The final phase of the Dodson Flood Control Project, whose purpose is to provide 500-year flood protection for the Dodson Industrial District, began in 2018 and is slated for completion by late 2020. The plan involves building a 20-foot tall earthen levee to protect the area from Prospect Avenue and Blue River Road to Bruce R. Watkins Drive from chronic flooding, and will connect the existing upstream levee section and the existing downstream floodwall.

The U.S. Army Corps of Engineers is in charge of design and construction, while KC Water is responsible for maintenance of the levee, flood wall and other elements. The improvements will protect existing development and enhance the area's future economic stability.

## BLUE RIVER WASTEWATER TREATMENT PLANT BIOSOLIDS FACILITY

Situated near the intersection of Front Street and I-435, the Blue River WWTP handles 95% of the biosolids produced by KC Water's six WWTPs. This project intends to replace the existing incinerators with advanced digestion utilizing the thermal hydrolysis process. Thermal hydrolysis involves pressure cooking solids allowing KC Water to double the capacity of its anaerobic digesters without constructing new digesters. The resulting stabilized biosolids will be certified class A by the EPA, which is safe enough for use on parkland. Currently, the project is being designed by an owner's advisor with plans to solicit design-builders to provide a fixed fee design-build proposal with qualifications documents received in the summer of 2019, followed by technical and fee proposals later in the year.

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## SMART CITIES COMPREHENSIVE SMART CITY UPDATE

The City of Kansas City has accepted proposals to expand its globally-recognized and award-winning Smart City program. In 2018, the City issued a Request for Proposal (RFP) that seeks a public-private partnership focusing on goals such as improving delivery of basic city services, increasing life expectancy through better health, and bridging the digital divide. The Selection Committee is currently working through the proposals and an update will be announced at the appropriate time.



# CITY INFRASTRUCTURE HIGHLIGHTS

## SMART SEWER PROGRAM

## GREEN STEWARDS WORKFORCE DEVELOPMENT PROGRAM\*

In 2018, the City of Kansas City, Missouri launched the Green Stewards Workforce Development program. The program provides professional development training and employment for seven full-time staff members who are responsible for the maintenance, inspection and monitoring of 147 green infrastructure and pervious pavement sites throughout the city. A team consisting of one program manager, one field manager and six Green Stewards were hired and began working in the field on March 19, 2018.

## GREEN STORMWATER INFRASTRUCTURE MANUAL\*

Kansas City's Green Stormwater Infrastructure (GSI) Manual was created and completed in 2018 as a design tool to supplement the Manual of Best Management Practices (BMP) for Stormwater Quality published by the Mid-America Regional Council and the American Public Works Association BMP Manual. Kansas City's manual provides detailed guidance for green stormwater infrastructure from the conceptual design phase to detailed design, construction, initial establishment and long-term maintenance. Through this resource, Kansas City is improving quality control during both design and construction of GSI projects and setting the standards for designers and contractors moving forward.

## CONTINUOUS MONITORING AND ADAPTIVE CONTROL TECHNOLOGY\*\*

The Kansas City Smart Sewer program utilizes Continuous Monitoring and Adaptive Control (CMAC) technology, designed for intelligent storm water management. CMAC technology autonomously controls the timing and rate of storm water flow into the combined sewer system using cloud-based technology, rainfall forecasts, water level sensors and actuated valves. Using these components, CMAC systems are able to plan and predictively respond to storm events in real-time. In addition to providing cost savings, the use of CMAC technology has helped the City of Kansas City to better utilize its existing assets.

## KEEP OUT THE RAIN PROGRAM

Keep Out the Rain is a limited-time inflow and infiltration reduction program to find and fix prohibited private sewer connections. By providing free I/I repairs to correct improper connections, the program helps reduce the overall cost of the required wastewater improvements as part of the City's Smart Sewer program.

With an average I/I removal cost of \$0.59/gallon per day, these private repairs are a significantly more cost-efficient method than average public I/I removal. To date, nearly 17,000 households have voluntarily participated in evaluations, helping to remove an estimated 19 million gallons per day of flow from the City's separate sewer systems.

## SMART SEWER SENSOR NETWORK

In 2018, Kansas City became home to the world's largest smart sewer sensor network, with approximately 300 sensors installed across the city. The sensors, fitted underneath manholes, provide real-time information about sewer conditions and the system's ability to handle rain water and sanitary sewer flows. The data gathered from this technology will help city leaders make informed decisions about where and when to plan future infrastructure investments in a way that is efficient and cost effective.



2010-2018

# SMART SEWER PROGRAM REVIEW

## CONSENT DECREE MODIFICATION

Kansas City's second consent decree modification was approved by the United States Environmental Protection Agency (EPA) in January 2018. The modification provides timeline extensions for six Smart Sewer projects to coordinate construction sequencing, integrate other public infrastructure improvements, select preferred project sites and adjust project scopes for the benefit of the public.

In 2018, Kansas City presented its third consent decree modification request to the EPA for consideration. This proposed modification is intended to mitigate the size of future utility rate increases, maximize community benefits, expand the use of green infrastructure solutions, integrate overflow control measures with other public infrastructure improvements and optimize performance criteria.

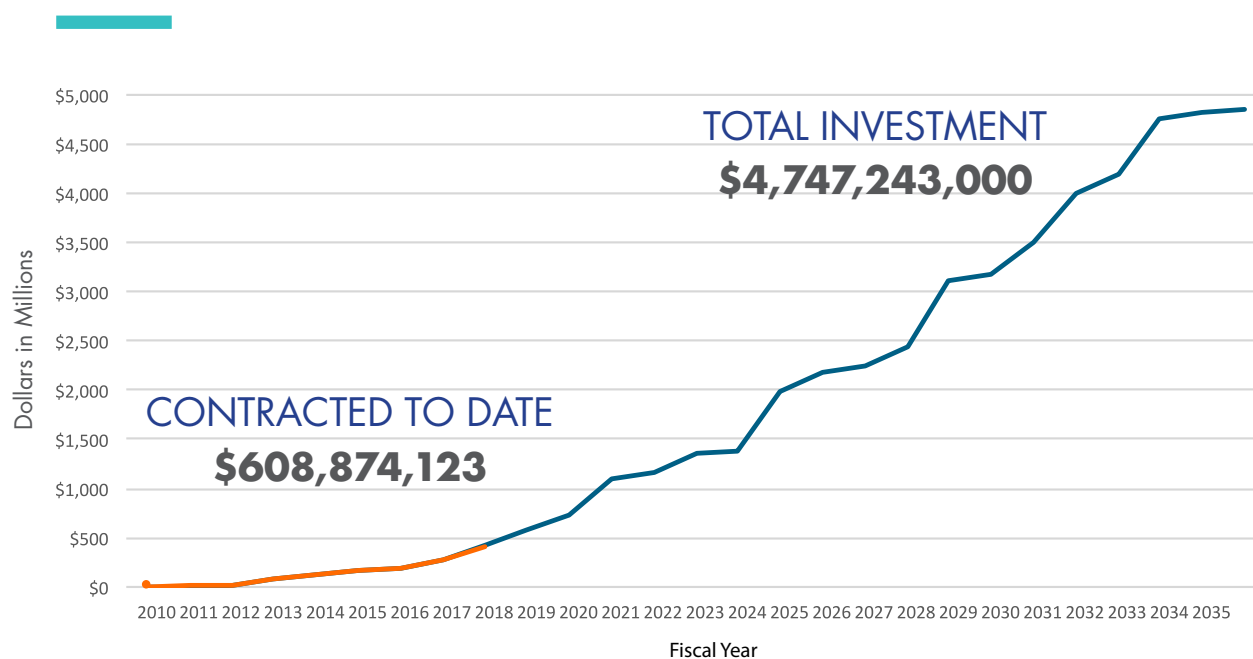
INVESTMENT — \$608,874,123

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JOBS\* — 11,750+



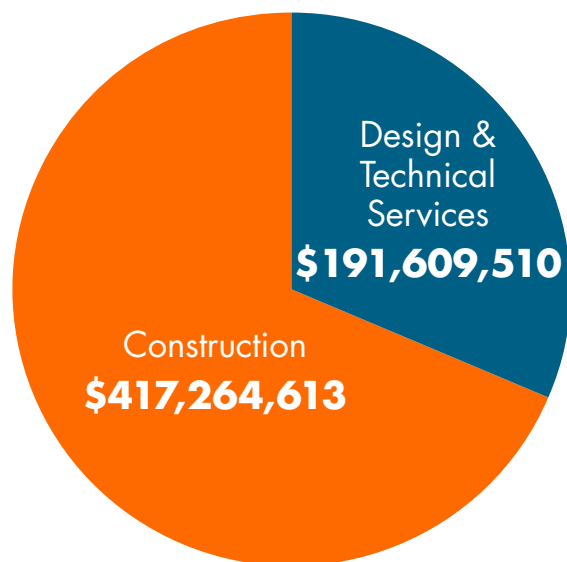
## PROGRESS TO DATE



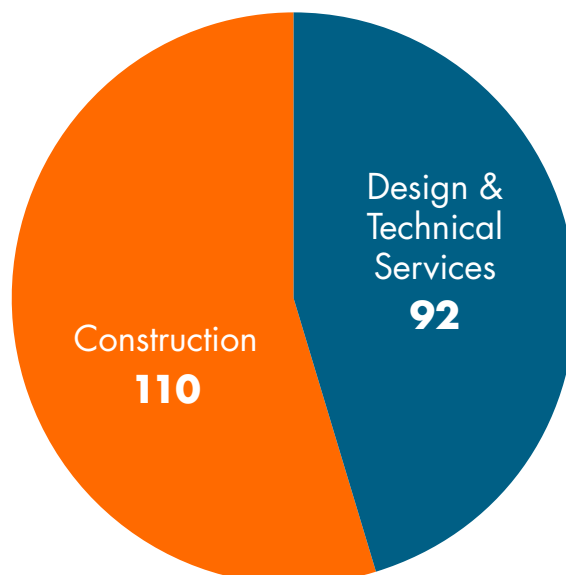
2010-2018

# SMART SEWER PROGRAM REVIEW

VALUE OF  
CONTRACTS



NUMBER OF  
CONTRACTS





## SMART SEWER PROGRAM 2010-2018

| Programmatic Element                      | Contracts  | Value                |
|-------------------------------------------|------------|----------------------|
| Diversion Structures & Pipe Consolidation | 4          | \$26,874,759         |
| Green Infrastructure                      | 26         | \$51,155,089         |
| Inflow & Infiltration Reduction           | 77         | \$95,427,280         |
| Neighborhood Sewer Rehabilitation         | 16         | \$85,815,213         |
| Pumping & Conveyance                      | 11         | \$47,065,767         |
| Sewer Separation                          | 7          | \$40,508,025         |
| Storage & Conveyance                      | 11         | \$24,879,635         |
| Treatment Facilities                      | 24         | \$143,240,766        |
| Supplemental Environmental Projects       | 6          | \$5,254,288          |
| Sewer Cleaning & CCTV                     | 3          | \$10,215,728         |
| Manhole Adjustments                       | 1          | \$6,000,000          |
| Programmatic Elements/ Services           | 16         | \$72,437,573         |
| <b>Total</b>                              | <b>202</b> | <b>\$608,874,123</b> |

# REPORT CARD

FISCAL YEAR 2019

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20  
PROJECTS

9 DESIGN  
PROJECTS

11 CONSTRUCTION  
PROJECTS

---

13

ON OR AHEAD OF SCHEDULE



---

3

ONE MONTH OR LESS BEHIND SCHEDULE



---

4

AT LEAST TWO MONTHS BEHIND SCHEDULE



---

2

INCREASE IN PROJECT SCOPE



On or Ahead of Schedule

≥ 1 Month Behind Published Schedule

At Least 2 Months Behind Schedule

Canceled

## DESIGN

| Project                                                              | Design Professional | Planned Date<br>Actual Date             | Estimated<br>Actual               | MBE/WBE<br>Goal | Scope |
|----------------------------------------------------------------------|---------------------|-----------------------------------------|-----------------------------------|-----------------|-------|
| Sewer Separation 31st Street & Broadway                              | Tetra Tech          | March 2018<br><b>March 2018</b>         | \$1,500,000<br><b>\$1,050,000</b> | 15%/10%         | ➔     |
| Sewer Separation 40th & Monroe                                       | HDR                 | July 2018<br><b>August 2018</b>         | \$2,853,900<br><b>\$2,591,000</b> | 15%/10%         | ➔     |
| I/I Reduction: Birmingham/Shoal Creek Project 1 (North of the River) | Lamp Ryneason       | September 2018<br><b>September 2018</b> | \$1,400,000                       | 15%/10%         | ➔     |
| I/I Reduction: Line Creek/Birmingham/Shoal Creek Project 3           | Olsson & Associates | September 2018<br><b>September 2018</b> | \$802,300                         | 15%/10%         | ➔     |
| Relief Sewers: Round Grove Basin                                     | N/A                 | November 2018<br><b>Canceled</b>        | \$520,600                         | 15%/10%         | N/A   |
| Baseline Improvements: Town Fork Creek Basin                         | TBD                 | January 2019<br><b>January 2019</b>     | \$413,6800                        | SLBE-WSDEPS     | ➔     |
| 15th Street Pump Station Upgrade                                     | TBD                 | February 2019<br><b>TBD</b>             | \$489,200                         | 15%/10%         | ➔     |
| Relief Sewer: Hardesty Avenue & 31st Street                          | TBD                 | March 2019<br><b>TBD</b>                | \$424,000                         | 15%/10%         | ➔     |
| Relief Sewer: Vineyard & Lawn Street                                 | TBD                 | March 2019<br><b>TBD</b>                | \$424,000                         | SLBE-WSDEPS     | ➔     |

## CONSTRUCTION

| Project                                                                                 | Contractor                 | Planned Date<br>Actual Date           | Estimated<br>Actual                 | MBE/WBE<br>Goal | Scope |
|-----------------------------------------------------------------------------------------|----------------------------|---------------------------------------|-------------------------------------|-----------------|-------|
| Pump Station & In-Line Storage: Gooseneck Arch Sewer                                    | Enerfab/Foley              | March 2018<br><b>March 2018</b>       | \$20,000,000<br><b>\$8,543,300</b>  | 13%/6%          | ➔     |
| Dry Weather Sewer Line Outfall 056 - Diversion Structures 065 & 073 Consolidation       | Pyramid                    | April 2018<br><b>April 2018</b>       | \$500,000<br><b>\$2,986,600</b>     | 11%/5%          | ⬆     |
| Lower Blue River Green Infrastructure                                                   | Pyramid                    | April 2018<br><b>October 2018</b>     | \$3,300,000<br><b>\$569,030</b>     | 12%/7%          | ⬇     |
| Neighborhood Sewer Rehabilitation: Northeast Industrial District - Package 1            | Blue Nile                  | June 2018<br><b>June 2018</b>         | \$10,025,000<br><b>\$8,088,500</b>  | 10%/7%          | ➔     |
| Neighborhood Sewer Rehabilitation: Northeast Industrial District - Package 2            | Kissick                    | July 2018<br><b>August 2018</b>       | \$10,025,000<br><b>\$9,232,700</b>  | 10%/7%          | ➔     |
| Westside WWTP Wet Weather Treatment                                                     | Goodwin Construction Bros. | July 2018<br><b>July 2018</b>         | \$51,740,500<br><b>\$39,285,000</b> | 13%/5%          | ➔     |
| Green Infrastructure Demonstration: Turkey Creek/Central Industrial District            | TBD                        | August 2018<br><b>November 2018</b>   | \$6,830,000<br><b>TBD</b>           | 15%/7%          | ➔     |
| Green Infrastructure Demonstration: Northeast Industrial District                       | Kissick                    | September 2018<br><b>October 2018</b> | \$7,680,000<br><b>\$3,305,600</b>   | 10%/7%          | ⬇     |
| Diversion Structure 068 Storage Basin                                                   | TBD                        | December 2018<br><b>TBD</b>           | \$8,500,000<br><b>TBD</b>           | 14%/4%          | ⬆     |
| Neighborhood Sewer Rehabilitation: Turkey Creek/Central Industrial District - Package 1 | TBD                        | January 2019<br><b>January 2019</b>   | \$9,241,300<br><b>TBD</b>           | 10%/6%          | ➔     |
| Neighborhood Sewer Rehabilitation: Turkey Creek/Central Industrial District - Package 2 | TBD                        | February 2019<br><b>TBD</b>           | \$9,214,300<br><b>TBD</b>           | 10%/6%          | ➔     |

CITY OF KANSAS CITY, MISSOURI

# FY2020 CAPITAL IMPROVEMENT PROGRAM

PLANNED  
INVESTMENT



\$522,995,000

=

JOBS\*



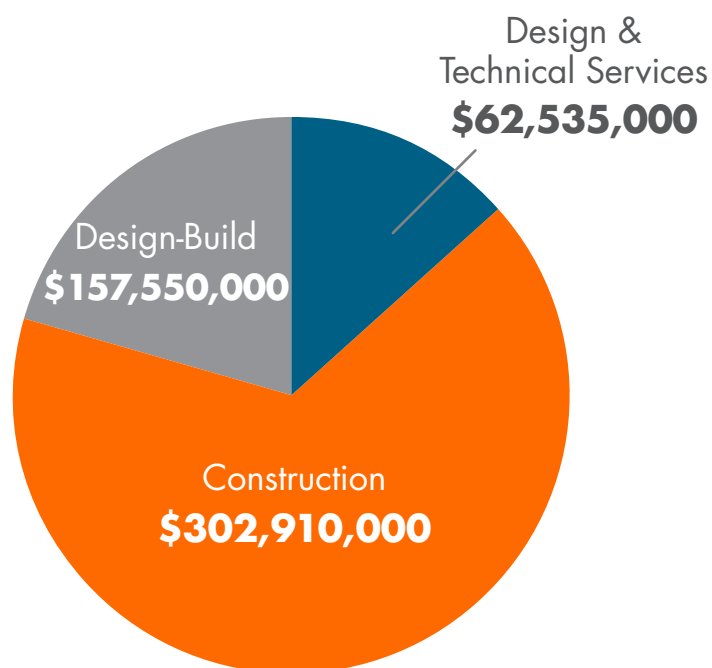
10,000+



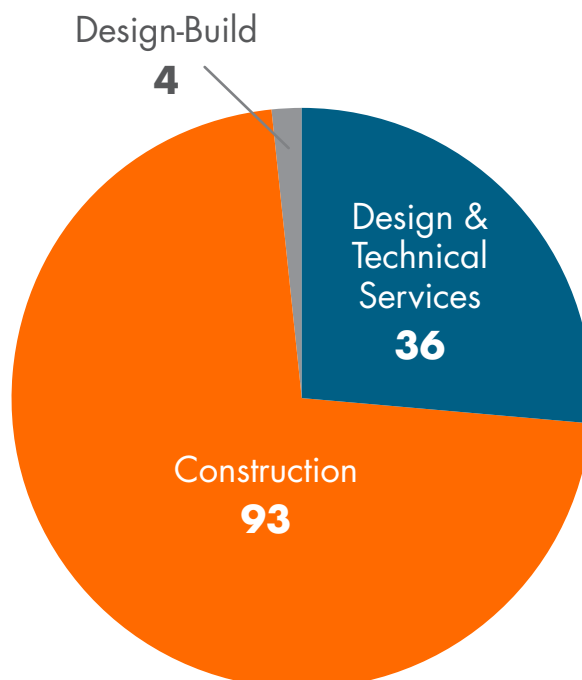
CITY OF KANSAS CITY, MISSOURI

# FISCAL YEAR 2020

VALUE OF  
CONTRACTS



NUMBER OF  
CONTRACTS



## CITY OF KANSAS CITY, MISSOURI FY2020 CAPITAL IMPROVEMENT PROJECTS

| Program            | Contracts  | Value                |
|--------------------|------------|----------------------|
| Architect's Office | 1          | \$63,000,000         |
| Aviation           | 3          | \$6,000,000          |
| Parks & Recreation | 13         | \$30,700,000         |
| Public Works       | 17         | \$71,300,000         |
| KC Water           | 48         | \$210,540,000        |
| Smart Sewer        | 51         | \$141,455,000        |
| <b>Total</b>       | <b>133</b> | <b>\$522,995,000</b> |



ARCHITECT'S OFFICE

# FY2020 CAPITAL IMPROVEMENT PROGRAM

PLANNED  
INVESTMENT



\$63,000,000

=

JOBS\*



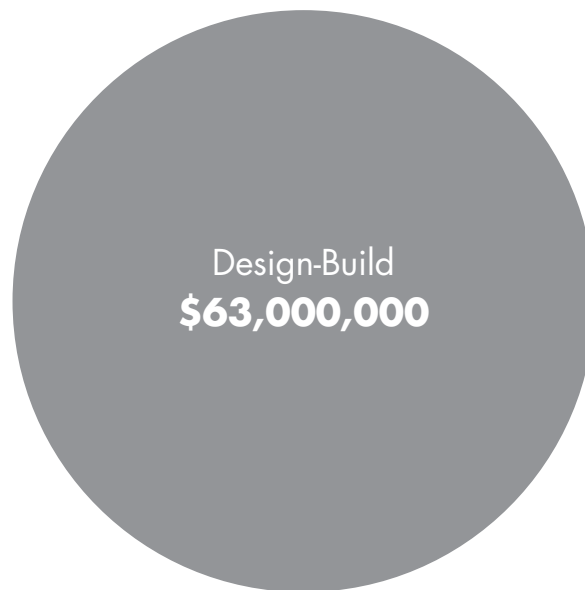
1,200+



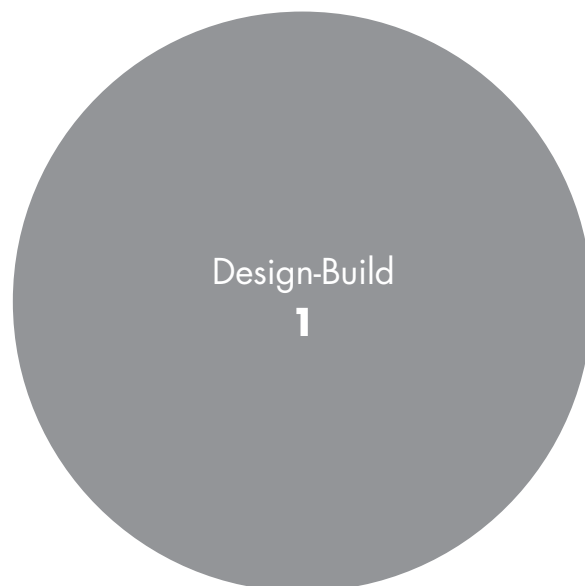
ARCHITECT'S OFFICE

# FISCAL YEAR 2020

VALUE OF  
CONTRACTS



NUMBER OF  
CONTRACTS



## ARCHITECT'S OFFICE PROJECT MANAGER



ERIC BOSCH

816.513.2517

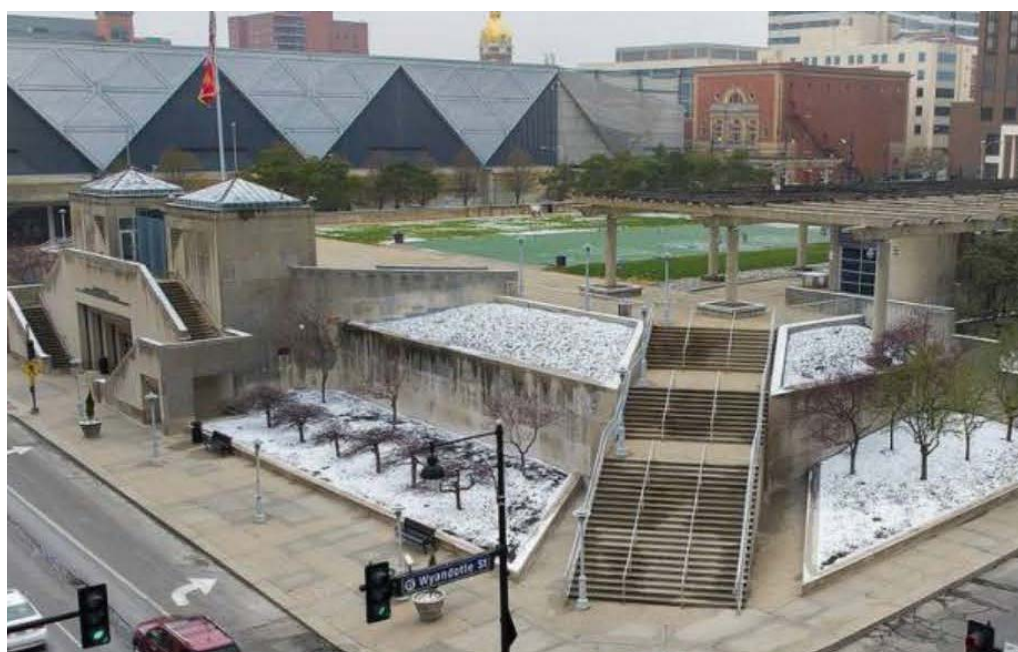
eric.bosch@kcmo.org

## ARCHITECT'S OFFICE DESIGN/BUILD PROJECT

ERIC BOSCH

**Barney Allis Plaza/Auditorium Plaza Parking Garage Reconstruction**

\$63,000,000 // Summer 2019



AVIATION

# FY2020 CAPITAL IMPROVEMENT PROGRAM

PLANNED  
INVESTMENT



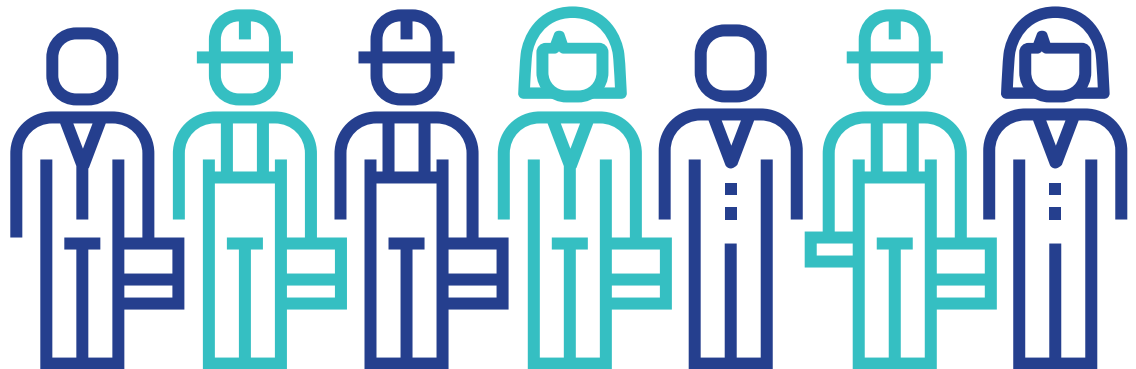
\$6,000,000

=

JOBS\*

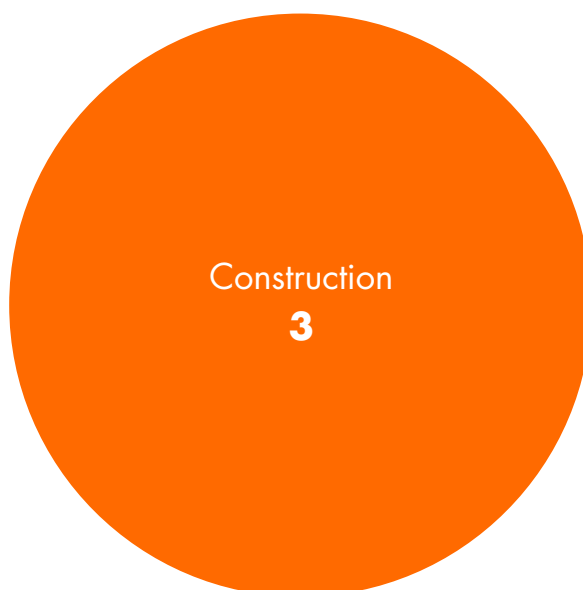


110+



## AVIATION

## FISCAL YEAR 2020

VALUE OF  
CONTRACTSNUMBER OF  
CONTRACTS

## AVIATION PROJECT MANAGERS



LAPONDZIA JONES

816.243.3057

lapondzia.jones@kcmo.org



JADE LISKA

816.243.3045

jade.liska@kcmo.org

## AVIATION PROJECTS

LAPONDZIA JONES

**Economy Lots A and Part of C Resurfacing**

\$3,500,000 // May 2019

LAPONDZIA JONES

**Terminal B and Brasilia Avenue Resurfacing**

\$2,000,000 // May 2019

JADE LISKA

**Old Rental Car Lot Overlay - Walking Trail - Misc.**

\$500,000 // May 2019



PARKS & RECREATION

# FY2020 CAPITAL IMPROVEMENT PROGRAM

PLANNED  
INVESTMENT



\$30,700,000

=

JOBS\*



590+



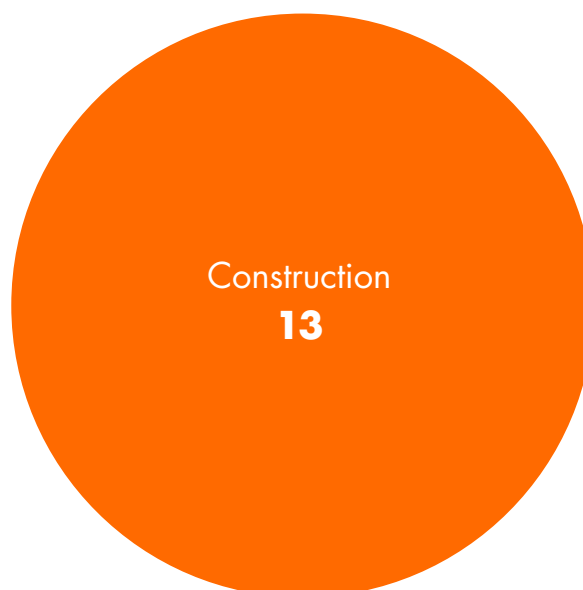
## PARKS & RECREATION

# FISCAL YEAR 2020

### VALUE OF CONTRACTS



### NUMBER OF CONTRACTS



## PARKS & RECREATION PROJECT MANAGERS



JORDAN CLINE

**816.513.7713**

jordan.cline@kcmo.org



SCOTT OVERBAY

**816.513.7268**

scott.overbay@kcmo.org



ERICA FLAD

**816.513.7780**

erica.flad@kcmo.org



RODNEY RIFFLE

**816.513.7619**

rodney.riffle@kcmo.org



CHAD HOLLINGSWORTH

**816.513.7518**

chad.hollingsworth@kcmo.org



JAMES WANG, P.E.

**816.513.7622**

james.wang@kcmo.org



BOB LAWLER

**816.513.7599**

bob.lawler@kcmo.org



## PARKS & RECREATION CONSTRUCTION PROJECTS

RODNEY RIFFLE



**Anne Garney Park Improvements**

\$450,000 // March 2019

JAMES WANG, P.E.



**Maplewoods Parkway - from 96th Street to Shoal Creek Parkway**

\$14,000,000 // April 2019

JORDAN CLINE



**Columbus Park Improvements**

\$100,000 // May 2019

JAMES WANG, P.E.



**Redbridge Road - from Holmes to Wornall Road**

\$4,500,000 // May 2019

JAMES WANG, P.E.



**Paseo Gateway Project at the Independence Boulevard Intersection**

\$9,000,000 // June 2019

SCOTT OVERBAY



**Lakewood Greenway Trail Improvements**

\$150,000 // August 2019

ERICA FLAD



**Blue River Trail**

\$300,000 // September 2019

SCOTT OVERBAY



**SE Community Center Parking Lot Resurface**

\$100,000 // September 2019

JORDAN CLINE



**Swope Park Connector Trail**

\$800,000 // September 2019

## PARKS & RECREATION CONSTRUCTION PROJECTS

CHAD HOLLINGSWORTH

**Watts Mill at Indian Creek Improvements**

\$200,000 // September 2019

SCOTT OVERBAY

**Trail and Stone Wall Repair Project**

\$300,000 // October 2019

BOB LAWLER

**Budd Park Shelter**

\$100,000 // November 2019

BOB LAWLER

**Little Blue River Park Improvements**

\$700,000 // November 2019



PUBLIC WORKS

# FY2020 CAPITAL IMPROVEMENT PROGRAM

PLANNED  
INVESTMENT



\$71,300,000

=

JOBS\*



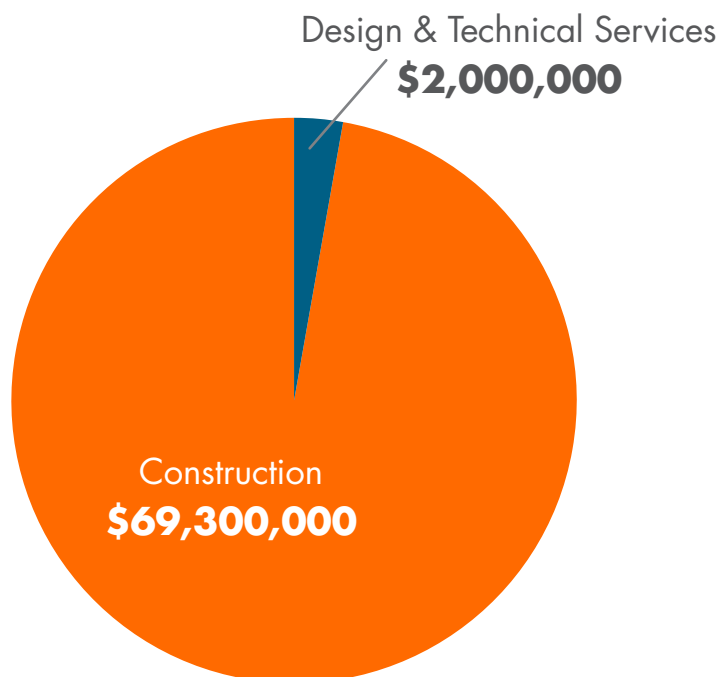
1,370+



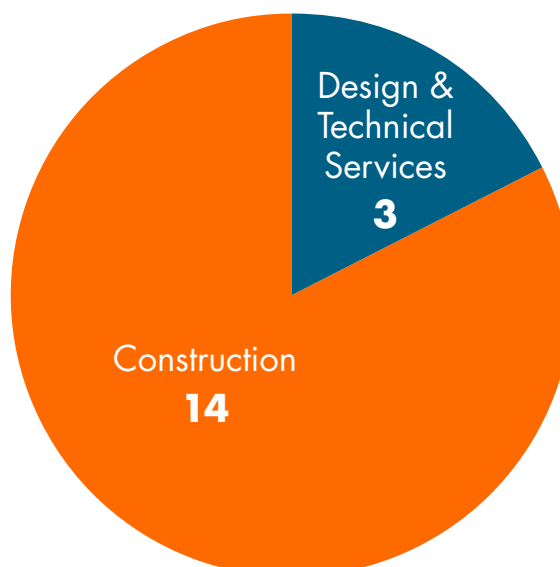
## PUBLIC WORKS

## FISCAL YEAR 2020

VALUE OF  
CONTRACTS



NUMBER OF  
CONTRACTS



## PUBLIC WORKS PROJECT MANAGERS



ATHENA HUYNH

**816.513.2720**

Athena.Huynh@kcmo.org



KIM PEMBERTON

**816.513.2720**

Kim.Pemberton@kcmo.org



KERRY KANATZAR

**816.513.4701**

Kerry.Kanatzar@kcmo.org



GARRETT ROSS

**816.513.4701**

Garrett.Ross@kcmo.org



DAVID H. MILLER

**816.513.2720**

David.H.Miller@kcmo.org



MARIO VASQUEZ

**816.513.4701**

Mario.Vasquez@kcmo.org



JERRY NELSON

**816.513.4701**

Jerry.Nelson@kcmo.org



JASON WALDRON

**816.513.2720**

Jason.Waldron@kcmo.org



## PUBLIC WORKS DESIGN PROJECTS

ATHENA HUYNH



**N. Coventry Avenue & NW 76th Street**

\$200,000 // February 2019

DAVID H. MILLER



**31st Street Linwood Boulevard to Van Brunt Boulevard**

\$300,000 // March 2019

JASON WALDRON



**Street Car South Extension**

\$1,500,000 // April 2019

## PUBLIC WORKS CONSTRUCTION PROJECTS

GARRETT ROSS



**Street Resurfacing 19-1 (MO River to N. City Limits)**

\$3,200,000 // February 2019

GARRETT ROSS



**Street Resurfacing 19-2 (MO River to 59th Street)**

\$3,200,000 // February 2019

GARRETT ROSS



**Street Resurfacing 19-3 (59th Street to S. City Limits)**

\$3,200,000 // February 2019

GARRETT ROSS



**Microsurface Designated Arterial Streets 19-MS (City Wide)**

\$1,800,000 // March 2019

KIM PEMBERTON



**N. Brighton Avenue 58th Street to Pleasant Valley Road**

\$11,000,000 // April 2019

## PUBLIC WORKS CONSTRUCTION PROJECTS

ATHENA HUYNH

**Beardsley Road Bridge**

\$2,000,000 // May 2019

ATHENA HUYNH

**Kenneth Road Bridge over Blue River**

\$4,800,000 // May 2019

KIM PEMBERTON

**NW Prairie Road S. of 64th Street**

\$8,300,000 // May 2019

ATHENA HUYNH

**N. Green Hills Road Platte Brooke Drive to NW 78th Street**

\$9,600,000 // July 2019

KERRY KANATZAR

**Big Shoal Trails Chouteau to Indiana to Jackson to N. Brighton**

\$2,300,000 // September 2019

KERRY KANATZAR

**Route 152 Trail Segment North Oak Street to Maplewoods Parkway**

\$1,600,000 // September 2019

MARIO VASQUEZ

**Chouteau to Universal Avenue**

\$5,300,000 // November 2019

JERRY NELSON

**GO Bond Sidewalk Repairs**

\$5,000,000 // November 2019

MARIO VASQUEZ

**Wornall Road 75th Street to 79th Street; Intersection of 75th Street Wornall Road**

\$8,000,000 // December 2019

KC WATER

# FY2020 CAPITAL IMPROVEMENT PROGRAM

PLANNED  
INVESTMENT



\$210,540,000

=

JOBS\*



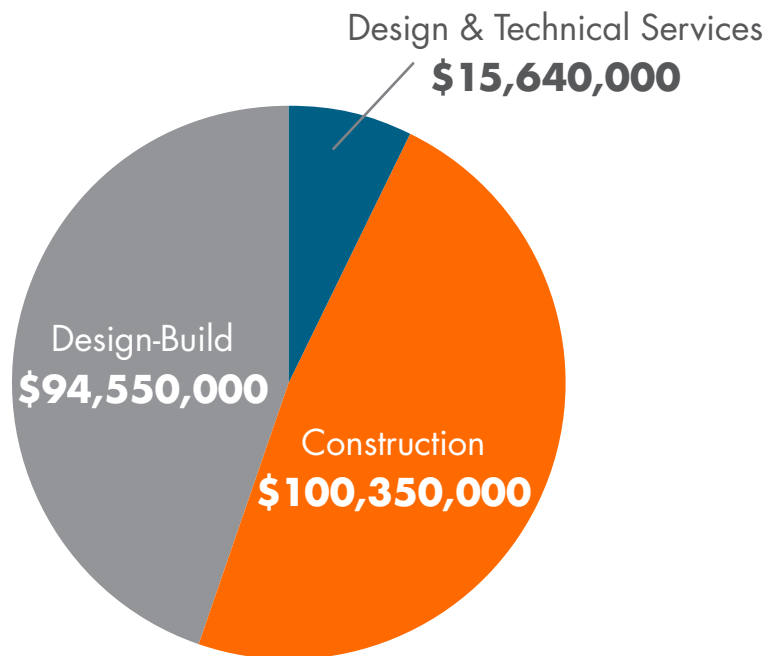
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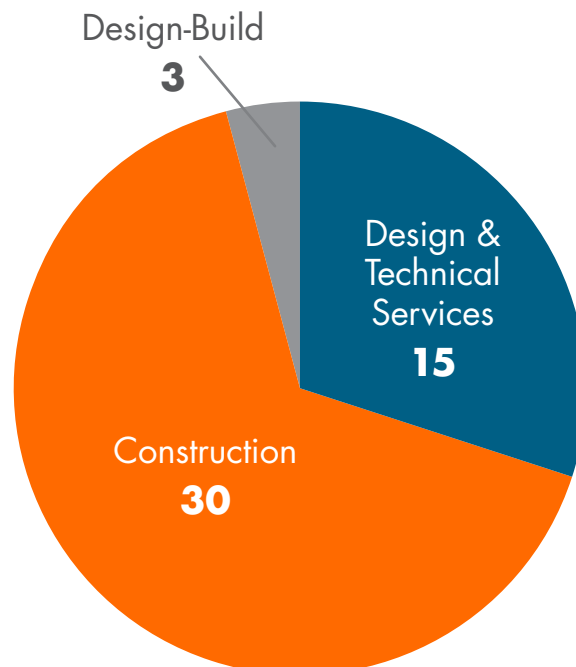
KC WATER

# FISCAL YEAR 2020

VALUE OF  
CONTRACTS



NUMBER OF  
CONTRACTS



## KC WATER PROJECT MANAGERS



BLAKE ANDERSON

**816.513.0329**

blake.w.anderson@kcmo.org



BON MARIE GARDNER

**816.513.0354**

bon.marie.gardner@kcmo.org



CARLA BERGMAN

**816.513.0348**

carla.bergman@kcmo.org



CHRIS HERRERA

**816.513.0355**

chris.herrera@kcmo.org



FELIX CARDONA

**816.513.7228**

felix.cardona@kcmo.gov



ALEX IVANESCU

**816.513.0445**

alex.ivanescu@kcmo.org



SHAWN CROSS

**816.513.0422**

shawn.cross@kcmo.org



MELANIE JOLLETT

**816.513.0154**

melanie.jollett@kcmo.org



JOHN DESCHEPPER

**816.513.7252**

john.deschepper@kcmo.org



ALVINA KWEH

**816.513.0444**

alvina.kweh@kcmo.org



KELLY FINN

**816.513.0351**

kelly.finn@kcmo.gov



SHAUN O'KELLEY

**816.513.7262**

shaun.okelley@kcmo.org

## KC WATER PROJECT MANAGERS



DAN OTT  
816.513.0158  
dan.ott@kcmo.org



DEBRA SMITH  
816.513.0293  
debra.smith@kcmo.org



KARINE PAPIKIAN  
816.513.0288  
karine.papikian@kcmo.org



JERRY STEVENS  
816.513.0446  
jerald.stevens@kcmo.org



JOHN REDDY IV  
816.513.0377  
john.reddy@kcmo.org



TERRY THOMAS  
816.513.0262  
terry.d.thomas@kcmo.org



NIMESHA SENANAYAKE  
816.513.0460  
nimesha.senanayake@kcmo.org

## KC WATER DESIGN/BUILD PROJECTS

SHAUN O'KELLEY

**WWTP Safety Improvements**  
\$550,000

BLAKE ANDERSON

**Blue River WWTP Biosolids Improvements**  
\$90,000,000

MULTIPLE

**Water Main Replacements Design/Build**  
\$4,000,000

## KC WATER DESIGN PROJECTS

MELANIE JOLLETT



**16" Missouri River Crossing to Downtown Airport**

\$150,000

DEBRA SMITH



**18th Street Complex Improvements**

\$2,000,000

CARLA BERGMAN



**87th Street Pump Station Screen Evaluation**

\$250,000

DEBRA SMITH



**ADA Compliance (Water)**

\$40,000

BLAKE ANDERSON



**Birmingham Headworks and Electrical Improvements**

\$1,000,000

BLAKE ANDERSON



**Blue River Pump Station Screening and Grit Improvements**

\$2,000,000

BLAKE ANDERSON



**Collection System Odor Control Study**

\$1,000,000

TERRY THOMAS



**Hardesty and 63rd Street 36" Transmission Replacement**

\$150,000

DAN OTT



**SLBE-Burlington Creek/Riverside Pump Station Pre-Design**

\$250,000

## KC WATER DESIGN PROJECTS

SHAWN CROSS



**SLBE-Birmingham Pump Station Screen Replacements**

\$300,000

ALEX IVANESCU



**SLBE-Kenneth Road/Holmes Sanitary Sewer Interceptor Extension Pre-Design**

\$250,000

MULTIPLE



**SLBE-Water Main Replacements (5 Projects)**

\$1,500,000

SHAUN O'KELLEY



**Todd Creek Facility Plan Update**

\$750,000

MULTIPLE



**Water Main Replacements (8 Projects)**

\$3,500,000

CARLA BERGMAN



**Water Treatment Plant Modernization Project, Phase 1**

\$2,500,000

## KC WATER CONSTRUCTION PROJECTS

DEBRA SMITH



**10th and Harrison Building Rehabilitation**

\$700,000

TERRY THOMAS



**75th Street Transmission Main - Phase 1 (Main Street to Summit Street)**

\$6,500,000

## KC WATER CONSTRUCTION PROJECTS

MELANIE JOLLETT



**131st Street Holmes to Prospect Avenue Transmission Main 16" to New Tank**  
\$2,200,000

TERRY THOMAS



**AMI Supplemental Assistance**  
\$3,000,000

FELIX CARDONA



**Birmingham WWTP Improvements**  
\$1,750,000

CARLA BERGMAN



**Buckeye Pump Station Rehabilitation**  
\$1,500,000

KARINE PAPIKIAN



**Collection System Improvements**  
\$7,500,000

CARLA BERGMAN



**East Bottoms Pump Station Phase 3 (Valves & Header, Clearwell & Satellite Pump Station, Storage Tank Baffling & Sluice Gates)**  
\$17,000,000

TERRY THOMAS



**Hydrant Repair City-wide**  
\$1,000,000

TERRY THOMAS



**Large Meter Replacement**  
\$600,000

## KC WATER CONSTRUCTION PROJECTS

JOHN DESCHEPPER



**Other WWTP Improvements (Selected Instrumentation Replacement/Upgrade)**

\$400,000

JOHN REDDY IV



**Prospect Road Elevated Tank**

\$6,000,000

CHRIS HERRERA



**Replace Switchgear at Water Treatment Plant Secondary Pump Station**

\$12,000,000

JERRY STEVENS



**Supplemental Workforce for Transmission Repairs including Large and Critical Valves**

\$1,650,000

TERRY THOMAS



**Supplemental Workforce for Valve Repair and Replacement Program**

\$2,000,000

TERRY THOMAS



**Supplemental Workforce for Water Distribution Repairs**

\$1,000,000

JERRY STEVENS



**Water Main Replacement (75th and Cleveland, Swope Industrial Levee)**

\$500,000

NIMESHA SENANAYAKE



**Water Main Replacement in the Area of Cherry Street to Prospect Avenue, E 122nd Street to E 130th Street**

\$1,730,000



## KC WATER CONSTRUCTION PROJECTS

TERRY THOMAS



**Water Main Replacement in the Area of College Avenue to James A. Reed Road, E 71st Street to E 80th Terrace**

\$2,850,000

KELLY FINN



**Water Main Replacement in the Area of Genessee Street to Euclid Avenue, E 1st Street to E 23rd Street**

\$1,410,000

MELANIE JOLLETT



**Water Main Replacement in the Area of Glen Arbor Terrace to Virginia Avenue, E 110th Street to E 117th Street**

\$1,530,000

TERRY THOMAS



**Water Main Replacement in the Area of I-435 to Oxford Avenue, E 49th Street to E 59th Street**

\$1,290,000

JERRY STEVENS



**Water Main Replacement in the Area of Monroe Avenue to Hardesty Avenue, E 43rd Street to E 47th Street**

\$1,140,000

ALVINA KWEH



**Water Main Replacement in the Area of N Chaumiere Road to N Cleveland Avenue, NE Russell Road to NE 43rd Street**

\$810,000

TERRY THOMAS



**Water Main Replacement in the Area of N Lister Avenue to N Sycamore Drive, NE 47th Street to NE 62nd Street**

\$1,830,000

KELLY FINN



**Water Main Replacement in the Area of Norton Avenue to Quincy Avenue, E 52nd Street to E 55th Street**

\$1,200,000

## KC WATER CONSTRUCTION PROJECTS

MELANIE JOLLETT

**Water Main Replacement in the Area of Wallace Avenue to Willow Avenue, E 29th Terrace to E 39th Terrace**

\$1,560,000

TERRY THOMAS

**Water Main Replacement in the Area of Wyoming Avenue to Flora Avenue, W 65th Street to W 78th Street**

\$7,500,000

CHRIS HERRERA

**Wastewater SCADA Improvements**

\$9,000,000

BON MARIE GARDNER

**WSD Learning Labs**

\$3,200,000



SMART SEWER

# FY2020 CAPITAL IMPROVEMENT PROGRAM

PLANNED  
INVESTMENT



\$141,455,000

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JOBS\*



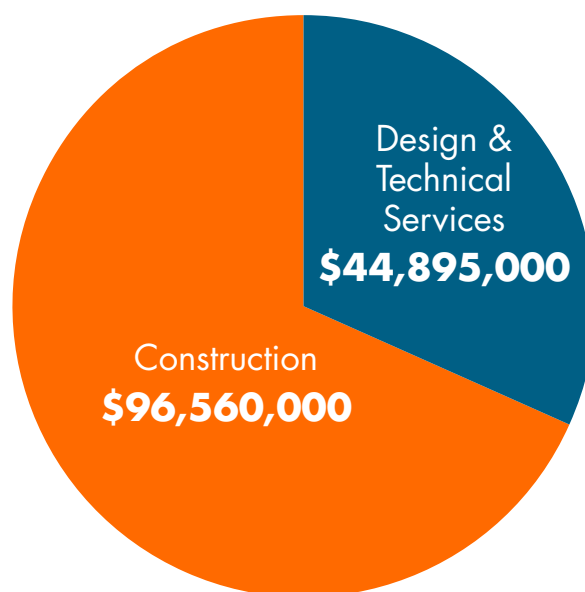
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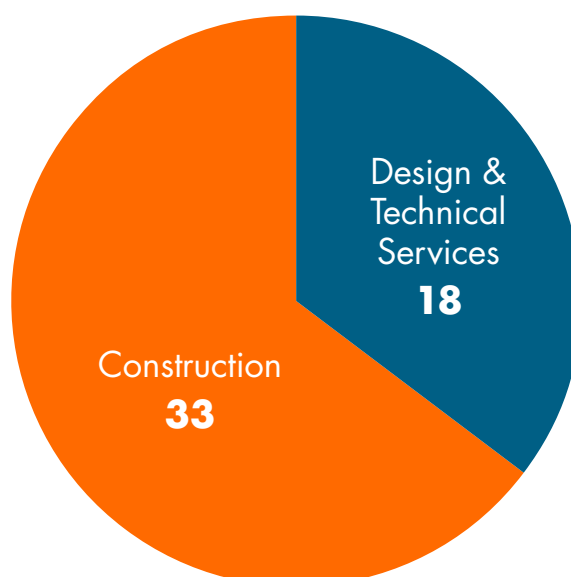
## SMART SEWER

# FISCAL YEAR 2020

VALUE OF  
CONTRACTS



NUMBER OF  
CONTRACTS



## FISCAL YEAR 2020

| Programmatic Element              | Contracts | Value                |
|-----------------------------------|-----------|----------------------|
| Green Infrastructure              | 4         | \$14,700,000         |
| Inflow & Infiltration Reduction   | 31        | \$50,470,000         |
| Neighborhood Sewer Rehabilitation | 2         | \$19,425,000         |
| Pumping & Conveyance              | 3         | \$20,660,000         |
| Sewer Separation                  | 1         | \$600,000            |
| Storage & Conveyance              | 1         | \$3,500,000          |
| Sewer Cleaning & CCTV             | 2         | \$3,400,000          |
| Sewer Rehabilitation              | 2         | \$15,000,000         |
| Programmatic Elements/Services    | 5         | \$13,700,000         |
| <b>Total</b>                      | <b>51</b> | <b>\$141,455,000</b> |



## SMART SEWER PROJECT MANAGERS



CLIFF CATE  
816.823.7128  
ckcate@burnsmcd.com



WILLIE WILLIAMS  
816.447.9871  
wgwilliams@burnsmcd.com



NICKI CHESTNUT  
816.995.9211  
nchestnut@tb-engr.com



BRI ZICKEFOOSE  
816.627.3373  
bzickefoose@burnsmcd.com



PRIYA IYENGAR  
816.513.0579  
padmavathi.iyengar@kcmo.org



REZA ZONNOOZ  
816.513.0309  
reza.zonnooz@kcmo.org



JULIE MCNIFF  
816.477.9892  
jmcniff@burnsmcd.com



KHOA NGUYEN  
816.513.0264  
khoa.nguyen@kcmo.org



KYLE TONJES  
816.627.6104  
kltonjes@burnsmcd.com

## SMART SEWER FY20 DESIGN PROJECTS

WILLIE WILLIAMS



**Supplemental I/I Reduction Project: Round Grove**

\$500,000 // February 2019\*

WILLIE WILLIAMS



**15th Street Pump Station and Sewer Separation**

\$490,000 // February 2019\*

KYLE TONJES



**Relief Sewer: Hardesty Avenue and 31st Street**

\$425,000 // March 2019\*

KYLE TONJES



**Relief Sewer: Vineyard and Lawn Street**

\$425,000 // March 2019\*

CLIFF CATE



**Keep Out the Rain**

\$2,000,000 // March 2019\*

CLIFF CATE



**Keep Out the Rain**

\$2,000,000 // March 2019\*

CLIFF CATE



**Keep Out the Rain**

\$2,000,000 // March 2019\*

NICKI CHESTNUT



**I/I Reduction: Northern Basins Project Area 1**

\$400,000 // November 2019

NICKI CHESTNUT



**I/I Reduction: Northern Basins Project Area 2**

\$300,000 // November 2019

BRIE ZICKEFOOSE



**Relief Sewer: 45th Street**

\$125,000 // November 2019

## SMART SEWER FY20 DESIGN PROJECTS

BRIE ZICKEFOOSE



**Dry Weather Sewer Line: Outfall 055**

\$60,000 // November 2019

PRIYA IYENGAR



**Sewer Separation: Outfall 054**

\$600,000 // December 2019

KYLE TONJES



**RT-DSS Implementation: Additional OK Creek Gates**

\$3,500,000 // February 2020

PRIYA IYENGAR



**Town Fork Creek/63rd Street GI Level 3**

\$8,000,000 // March 2020

## SMART SEWER FY20 CONSTRUCTION PROJECTS

REZA ZONNOOZ



**Neighborhood Sewer Rehabilitation: Turkey Creek/Central Industrial District - Package 2**

\$9,200,000 // February 2019\*

WILLIE WILLIAMS



**Round Grove Pump Station Upgrade**

\$19,500,000 // March 2019\*

PRIYA IYENGAR



**Lower Blue River Green Infrastructure - Area 2**

\$2,700,000 // April 2019\*

JULIE MCNIFF



**City Wide Sewer Rehabilitation FY20**

\$10,000,000 // April 2019\*

JULIE MCNIFF



**City Wide Sewer Rehabilitation FY20**

\$5,000,000 // April 2019\*

## SMART SEWER FY20 CONSTRUCTION PROJECTS

KHOA NGUYEN



**Neighborhood Sewer Rehabilitation: Lower Blue River Package 1**

\$9,250,000 // May 2019

KHOA NGUYEN



**Neighborhood Sewer Rehabilitation: Lower Blue River Package 2**

\$9,250,000 // June 2019

SMART SEWER  
PROGRAM



**I/I Reduction: Little Blue River Basin Project Area 1**

\$11,150,000 // October 2019

REZA ZONNOOZ



**I/I Reduction: Little Blue River Basin Project Area 2**

\$8,000,000 // December 2019

REZA ZONNOOZ



**I/I Reduction: Blue River South Basin Projects 4 and 5 - Phase 2**

\$5,775,000 // March 2020



SMART SEWER

# FY2021 CAPITAL IMPROVEMENT PROGRAM

PLANNED  
INVESTMENT



\$141,715,000

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JOBS\*



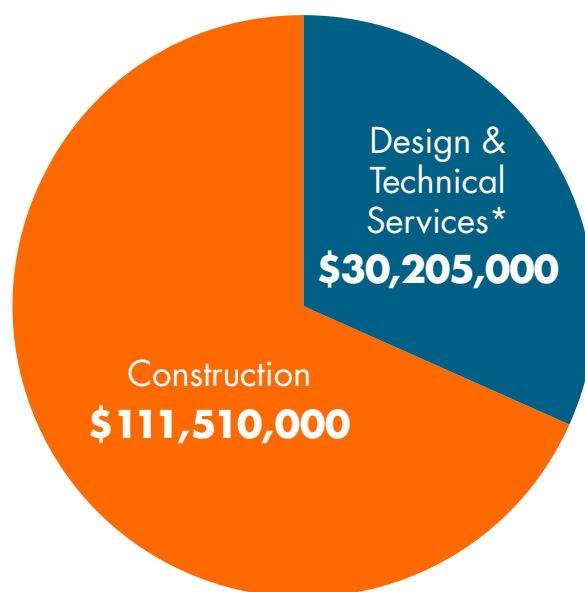
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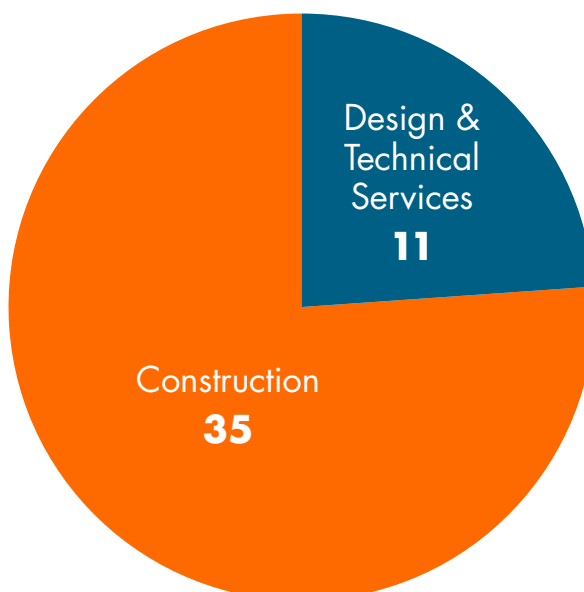
## SMART SEWER

# FISCAL YEAR 2021

VALUE OF  
CONTRACTS



NUMBER OF  
CONTRACTS



## FISCAL YEAR 2021

| Programmatic Element            | Contracts | Value                |
|---------------------------------|-----------|----------------------|
| Green Infrastructure            | 2         | \$5,000,000          |
| Inflow & Infiltration Reduction | 29        | \$55,780,000         |
| Pumping & Conveyance            | 3         | \$9,975,000          |
| Sewer Separation                | 4         | \$36,060,000         |
| Sewer Cleaning & CCTV           | 2         | \$6,000,000          |
| Sewer Rehabilitation            | 2         | \$15,000,000         |
| Programmatic Elements/Services  | 4         | \$13,900,000         |
| <b>Total</b>                    | <b>46</b> | <b>\$141,715,000</b> |



## SMART SEWER FY21 CONSTRUCTION PROJECTS

JULIE MCNIFF



**City Wide Sewer Rehabilitation FY 21**

\$10,000,000 // May 2020

JULIE MCNIFF



**City Wide Sewer Rehabilitation FY 21**

\$5,000,000 // May 2020

WILLIE WILLIAMS



**Sewer Separation: 31st Street and Broadway**

\$11,000,000 // June 2020

JULIE MCNIFF



**I/I Reduction: Birmingham/Shoal Creek Project Area 2**

\$8,150,000 // November 2020

BRIE ZICKEFOOSE



**Baseline Improvements: Town Fork Creek**

\$2,850,000 // November 2020

NICKI CHESTNUT



**I/I Reduction: Line Creek/Rock Creek Basin Projects 3 and 4**

\$11,775,000 // December 2020

WILLIE WILLIAMS



**I/I Reduction: Middle Blue River Area 13 and Round Grove**

\$7,750,000 // December 2020

WILLIE WILLIAMS



**15th Street Pump Station Upgrade and Sewer Separation**

\$3,500,000 // January 2021

PRIYA IYENGAR



**Sewer Separation: 40th and Monroe**

\$20,200,000 // February 2021

## SMART SEWER FY21 CONSTRUCTION PROJECTS

KYLE TONJES



**Relief Sewer: Hardesty Avenue and 31st Street**

\$3,000,000 // February 2021

KYLE TONJES



**Relief Sewer: Vineyard and Lawn Street**

\$3,000,000 // March 2021

BRIE ZICKEFOOSE



**I/I Reduction: Birmingham/Shoal Creek Projects 3**

\$6,200,000 // April 2021





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