



**REGULAR MEETING AGENDA**  
**Wednesday, October 20, 2021 at 7:00 p.m.**

**POWELL COMMUNITY CENTER**  
**6200 MARTWAY**

**Meeting In Person and Virtually via Zoom**

*This meeting will be held in person at the time and date shown above. In consideration of the COVID-19 social distancing recommendations, this meeting will also be available virtually via Zoom (<https://zoom.us/join>). Information will be posted, prior to the meeting, on how to join at <https://www.missionks.org/calendar.aspx>.*

*If you require any accommodations (i.e. qualified interpreter, large print, reader, hearing assistance) in order to attend this meeting, please notify the Administrative Office at 913-676-8350 no later than 24 hours prior to the beginning of the meeting.*

**CALL TO ORDER AND PLEDGE OF ALLEGIANCE**

**ROLL CALL**

**1. PUBLIC HEARINGS**

**2. SPECIAL PRESENTATIONS**

- Every Update – Rebecca Galati, Senior Customer Service Manager ([page 4](#))

**3. ISSUANCE OF NOTES AND BONDS**

3a. 2021A General Obligation Bonds Acceptance of Sale ([page 28](#))

3b. 2021A General Obligation Bonds Ordinance Authorizing Issuance ([page 28](#))

3c. 2021A General Obligation Bonds Resolution Prescribing Form and Details ([page 28](#))

**4. CONSENT AGENDA**

*NOTE: Information on consent agenda items has been provided to the Governing Body. These items are determined to be routine enough to be acted on in a single motion; however, this does not preclude discussion. **If a councilmember or member of the public requests, an item may be removed from the consent agenda for further consideration and separate motion.***

## **CONSENT AGENDA - GENERAL**

- 4a. [Minutes of the September 15, 2021 City Council Meeting](#)

## **CONSENT AGENDA - Finance & Administration Committee**

[Finance & Administration Committee Meeting Packet 10-6-2021](#)  
[Finance & Administration Committee Meeting Minutes 10-6-2021](#)

- 4b. LGR Legislative/Advocacy Services  
4c. Janitorial Services Contract Award  
4d. Audit Services Contract Award

## **CONSENT AGENDA - Community Development Committee**

[Community Development Committee Meeting Packet 10-6-2021](#)  
[Community Development Committee Meeting Minutes 10-6-2021](#)

## **5. PUBLIC COMMENTS**

## **6. ACTION ITEMS** **Planning Commission**

- 6a. Case# 21-07 Approval of an Application for Zoning, Preliminary Plat, Preliminary Development Plan, and Special Use Permit for The Construction and Operation of a Sanitary Sewer Pump Station at 5701 Roe Avenue – Johnson County Wastewater, Applicant ([page 144](#))

## **Miscellaneous**

## **7. COMMITTEE REPORTS**

### **Finance & Administration, Debbie Kring**

[Finance & Administration Committee Meeting Packet 10-6-2021](#)  
[Finance & Administration Committee Meeting Minutes 10-6-2021](#)

- 7a. Ordinance Imposing  $\frac{3}{8}$ -Percent Citywide Retailers Sales Tax ([page 199](#))  
7b. STO/UPOC Adoption ([page 207](#))  
7c. Animal Trapping Regulations ([page 219](#))

### **Community Development, Trent Boultinghouse**

[Community Development Committee Meeting Packet 10-6-2021](#)  
[Community Development Committee Meeting Minutes 10-6-2021](#)

- 7d. Resolution of Support for Climate Action KC Plan ([page 224](#))

## **8. UNFINISHED BUSINESS**

## **9. NEW BUSINESS**

10. **COMMENTS FROM THE CITY COUNCIL**

11. **MAYOR'S REPORT**  
**Appointments**

12. **CITY ADMINISTRATOR'S REPORT**

12a. September Interim Financial Reports ([page 230](#))

13. **EXECUTIVE SESSION**

13a. Privileged Communication ([no attachments](#))

**ADJOURNMENT**



# Evergy & City of Mission

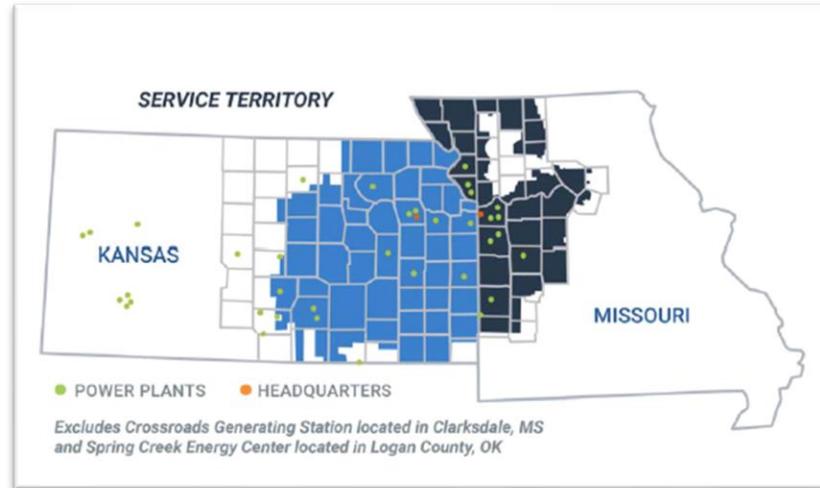
*October 2021*



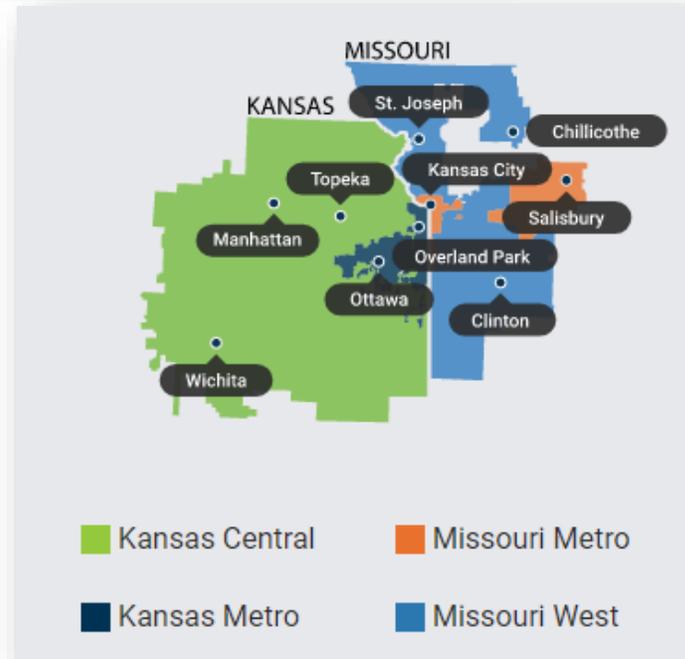
# Rebecca Galati

- Liaison to staff and council
  - Special projects
  - Issues management
  - Constituent concerns & questions
  - JoCo Emergency Operations liaison
    - Coordinate from JoCo's EOC
  - Provide updates to key City personnel during outage situations
  - Works with County critical infrastructure and organizations
- 

# Evergy Service Territories



- Fortune 500 company
- 1.6 million customers
- 10,000 miles of transmission lines
- 52,000 miles of distribution lines



- Evergy KS Central: Formerly Westar
- **Evergy KS Metro: Formerly KCP&L-KS**
- Evergy MO Metro: Formerly KCP&L-MO
- Evergy MO West: Formerly GMO

# Merger Promises

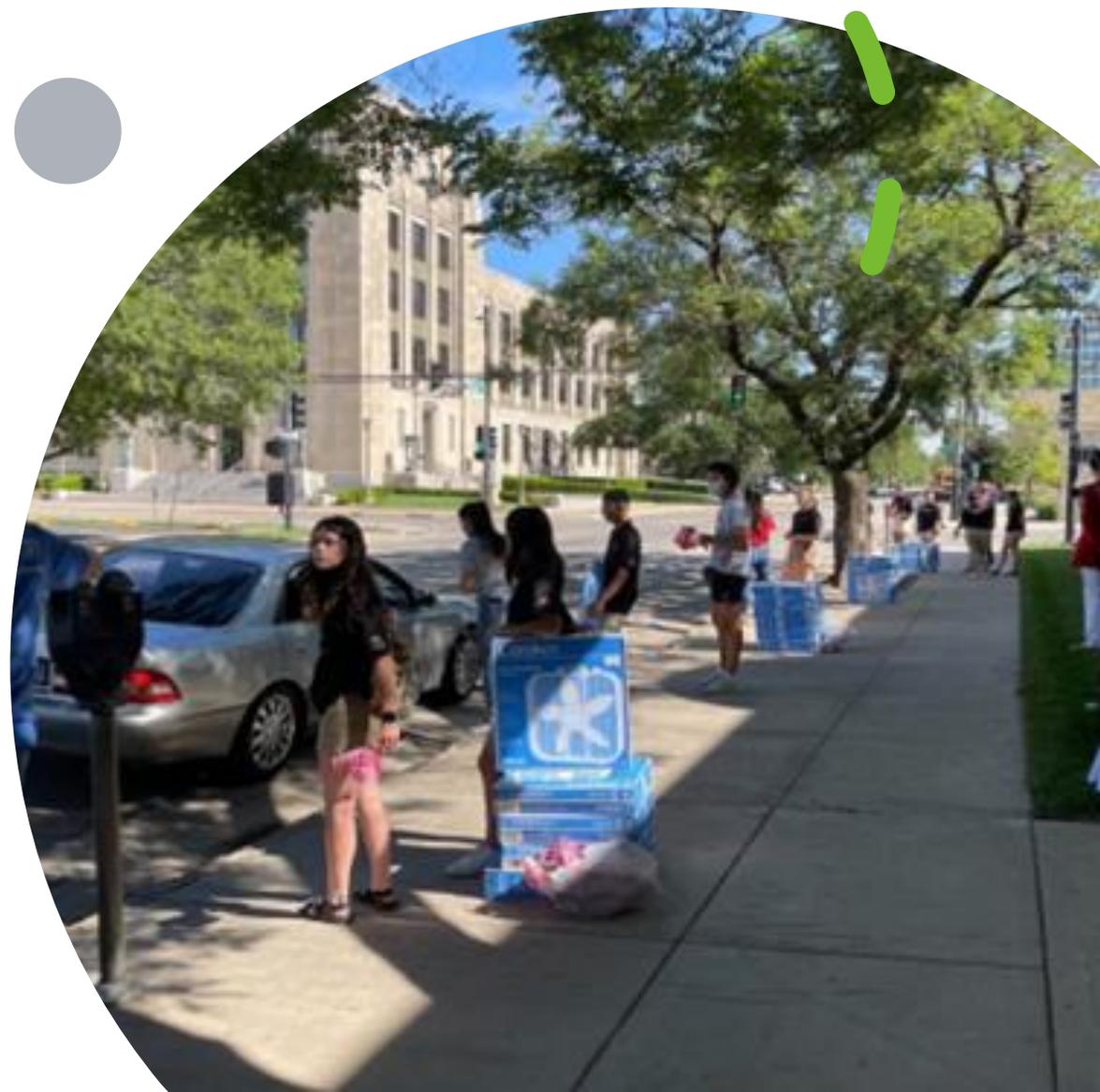
- Evergy committed to multiple benefits as a new company. And we continue to keep our promises:
- Customers received bill credits beginning in December of 2018 that will continue to offer savings.
- Savings and efficiencies are on track with expected levels.
- **We've also committed to not change base rates until December of 2023 in Kansas.**

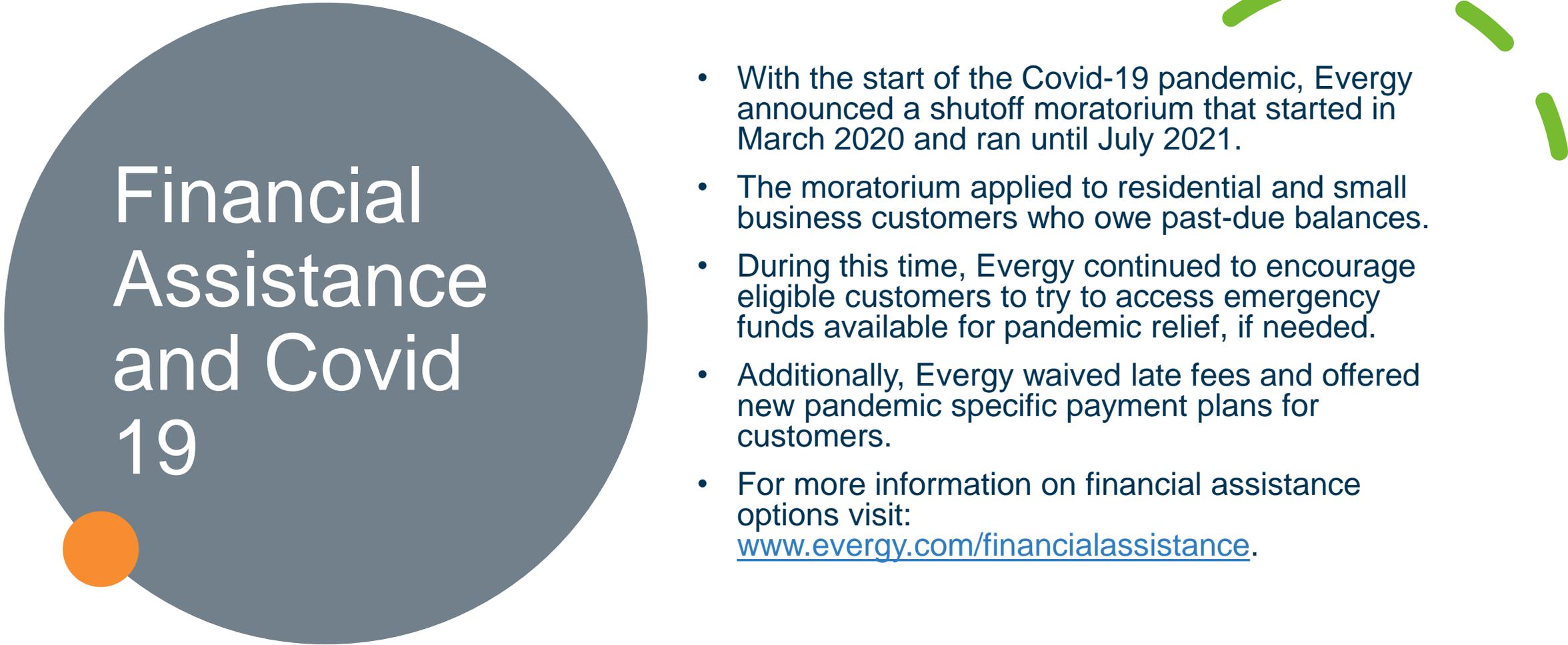
| Timing                    | Customers        | Credit Type     | Credit          | Avg. Residential Credit* |
|---------------------------|------------------|-----------------|-----------------|--------------------------|
| September 2018            | Missouri Metro** | Up-front merger | \$14.9 million  | \$20.29                  |
|                           | Missouri West    | Up-front merger | \$14.2 million  | \$23.38                  |
| December 2018             | Kansas Central   | Up-front merger | \$23.06 million | \$16.51                  |
|                           |                  | Tax cut         | \$50.02 million | \$35.82                  |
| February 2019             | Missouri West    | Tax cut         | \$29.3 million  | \$49.32                  |
|                           |                  | Kansas Metro    | Up-front merger | \$7.5 million            |
|                           | Kansas Metro     | Annual merger   | \$2.8 million   | \$6.34                   |
|                           |                  | Tax cut         | \$36.3 million  | \$81.61                  |
| March, 2019-2022          | Kansas Central   | Annual merger   | \$8.6 million   | \$6.19                   |
| February/March, 2020-2022 | Kansas Metro     | Annual merger   | \$2.8 million   | \$6.34                   |

# Our Community

We invest in the communities in which we live and work through opportunities that retain and attract businesses to stimulate local economies, encourage workforce readiness for all ages, backgrounds and provide basic needs that help people contribute to society.

- **Heat relief fan distribution** - During this year's annual Heat Relief Fan Distribution, we distributed over 5,000 fans across 21 locations and 10 social service agencies with the help of the Salvation Army. Nearly 120 company volunteers assembled during June and July to distribute a free box fan!
- **Cultivate KC** - In partnership with Catholic Charities of Northeast Kansas, Cultivate KC manages the New Roots for Refugees program, which trains refugees with agricultural experience to become independent farmers. For those families using SNAP, the agency also has a collaborative food stamps program so credits can be used for healthy food.
- **Wichita Women Initiative Network/Dress for Success** - We have a long-time partnership with WIN/DFS and supporting its mission to empower women to achieve economic independence. They provide a network of support, professional attire and development tools for women in the Greater Wichita area.





# Financial Assistance and Covid 19

- With the start of the Covid-19 pandemic, Evergy announced a shutoff moratorium that started in March 2020 and ran until July 2021.
- The moratorium applied to residential and small business customers who owe past-due balances.
- During this time, Evergy continued to encourage eligible customers to try to access emergency funds available for pandemic relief, if needed.
- Additionally, Evergy waived late fees and offered new pandemic specific payment plans for customers.
- For more information on financial assistance options visit: [www.evergy.com/financialassistance](http://www.evergy.com/financialassistance).

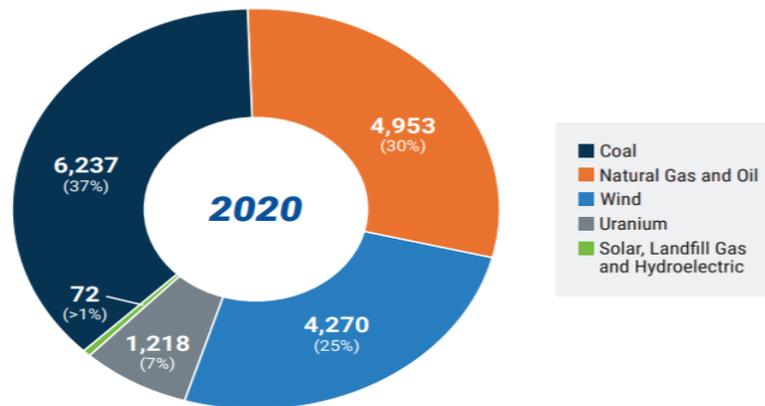
# Every Energy Mix

*Your electricity come from a variety of energy sources, which helps keep it reliable and affordable*

Our energy sources include: coal, gas, fuel oil, wind, solar, nuclear, biogas and hydroelectric. Using several different energy sources helps maintain a balanced power system that is flexible to changes in supply and demand. These changes can come from fuel prices, extreme weather events and other factors.

As we work toward a carbon neutral future, we continue to reduce carbon emissions and transition to renewable energy. Today, carbon emission levels are 51% lower than 2005. By 2045, our energy will be carbon neutral.

## Generation Capacity



## MW Capacity

(percent of total nameplate capacity)

### Renewables Direct and the City of Mission

The City of Mission is subscribed to the Every KS-Metro Renewables Direct Wind Farm program for 10 years at 600 MW.

Every will provide your City with energy from a 178 MW wind farm constructed in Beaver County, OK. The Ponderosa Wind Farm went online in December 2020.

By supporting wind energy production in the Midwest, your City will significantly offset its carbon footprint and bring about a cleaner future for all Kansas and Missouri residents.

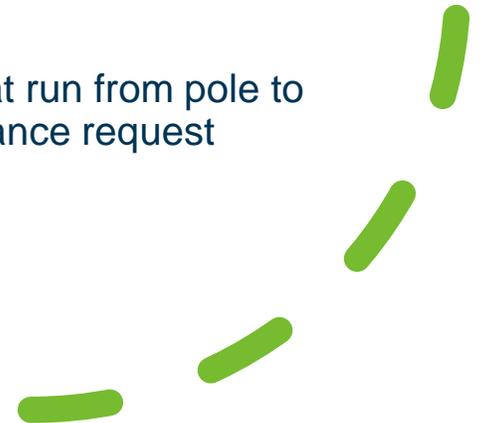
# Tree Trimming Process

Evergy works year-round to manage the impact of trees on power lines. Our tree trimming program helps reduce the impact of vegetation on lines.

- Our specially-trained team of utility foresters, supervisors and contractors maintain a system-wide mileage of just **over 37,000 miles, with over 25,000 of those miles in Kansas**, which we inspect and address to eliminate potential issues.
- We let you know if maintenance is needed at your property with a door notice that provides more detail and contact information.
- Tree trimming guidelines consider the tree's proximity to power lines, size, species, health and growth rate. Based on regulations, we trim vegetation to create clearance between power lines and the canopy of a tree. We also consider trees or limbs that could blow or fall into lines.
- Crews generally visit circuits once every four to five years.

## Requesting a Line Clearance

If you see a potential issue with vegetation on the lines that run from pole to pole near your house, please let us know with a line clearance request available at [evergy.com](https://www.evergy.com).



# Trees Per Mile in Mission

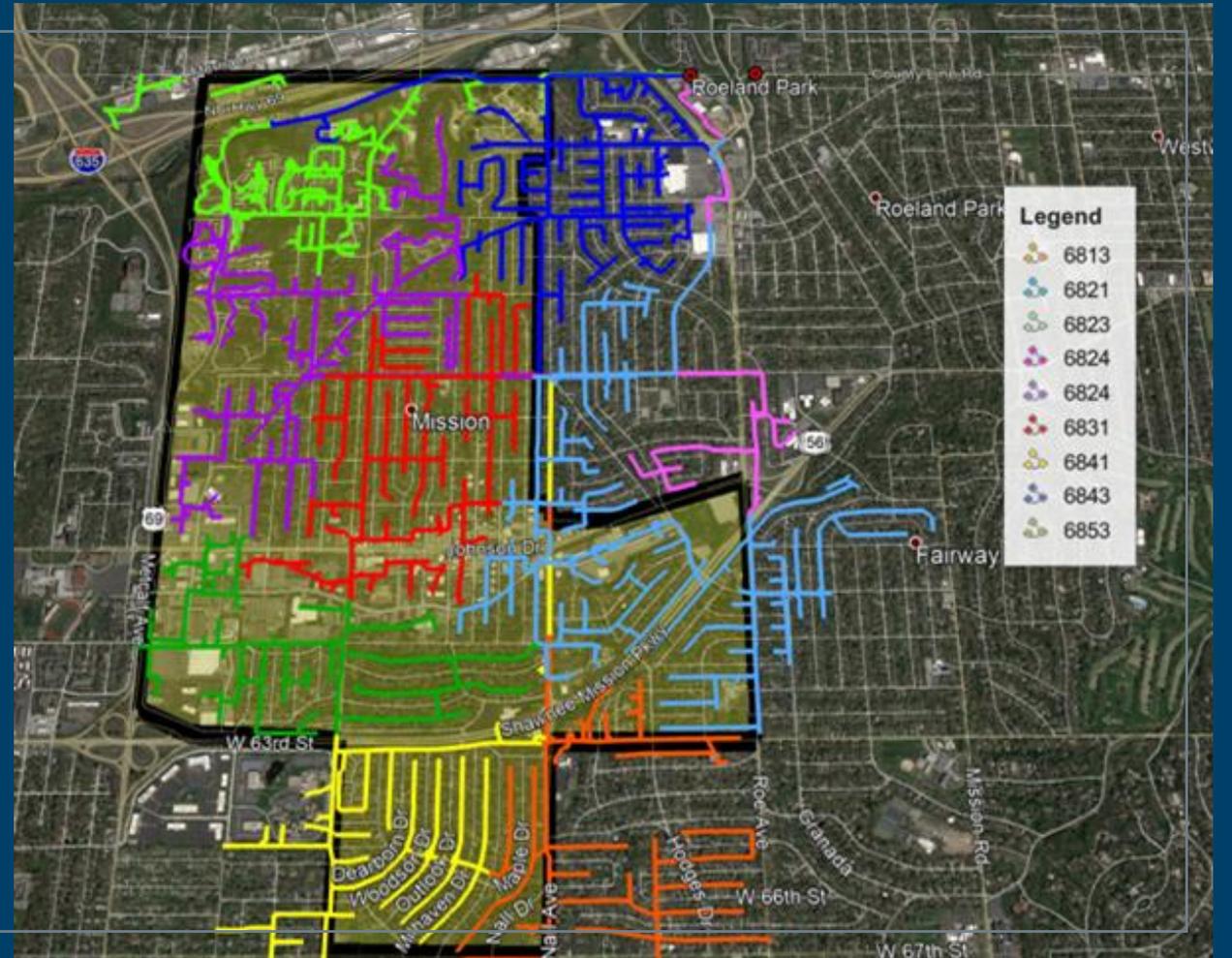
| City    | Circuit | Last Trim | Next Trim |
|---------|---------|-----------|-----------|
| Mission | 6832    | 2020      | 2024      |
| Mission | 6831    | 2019      | 2023      |
| Mission | 6824    | 2017      | 2021-2022 |
| Mission | 6821    | 2017      | 2021-2022 |
| Mission | 6853    | 2020      | 2024      |
| Mission | 6843    | 2019      | 2023      |
| Mission | 6841    | 2017      | 2021-2022 |
| Mission | 6813    | 2020      | 2024      |
| Mission | 9123    | 2017      | 2021-2022 |
| Mission | 6832    | 2017      | 2021-2022 |

Mission Trees per Mile: 146

Company-wide Trees per Mile: 58

| Service Area              | Trees per Mile | Customer per Mile |
|---------------------------|----------------|-------------------|
| Dodson                    | 141            | 128               |
| <b>Johnson County</b>     | <b>141</b>     | <b>134</b>        |
| Northland                 | 91             | 103               |
| F&M                       | 89             | 97                |
| Lee's Summit/Blue Springs | 86             | 76                |
| Southland                 | 76             | 206               |
| Liberty/Platte County     | 72             | 81                |
| Belton                    | 66             | 63                |
| Sedalia                   | 57             | 49                |
| Henrietta                 | 44             | 21                |
| Clinton                   | 41             | 20                |
| Nevada                    | 38             | 17                |
| Warrensburg               | 37             | 38                |
| Ottawa/Paola              | 36             | 17                |
| St. Joseph                | 36             | 42                |
| Brunswick                 | 24             | 11                |
| Maryville/Mound City      | 18             | 19                |
| Trenton                   | 15             | 15                |
| <b>System</b>             | <b>58</b>      | <b>53</b>         |

# Circuit Map



# Frequent Outage Investigation Process



- Contact Customer Care Center and request a frequent outage check for your address
- The Customer Care Center forwards the complaint to the local office
- A team will review the outage causes looking for a common cause
- Personalized phone call to the customer
- Teams will cross-reference with previously identified projects
- We will patrol if necessary and this can be broken into multiple work groups
- If an issue is found, we will design & sponsor system improvement jobs through the construction process
- Finally, we will follow up with the customer on our plans

# Worst Performing Circuits



**We start to  
identify circuits  
in July**



**Next, we  
ultrasound the  
backbone in  
August and  
September**



**Conduct a  
visual patrol**



**Historically  
focused on  
backbone**

Shifting focus to  
problem laterals



**Additional  
resources  
allocated for  
repeaters**



**Complete  
designs in year  
identified**



**Complete  
construction in  
following year**

# Reliability Proactive Inspections (RPI)

- Starting in August 2019, we began RPI inspections of area circuits flagged as a concern.
- These circuits were selected based on several factors including their 2018 reliability index in our Evergy Metro & West service territory wide (both KS and MO) and the number of customers impacted.
- Circuits in Mission for RPI work (2018 rank out of 1242 circuits)
  - 6821 – rank 378
  - 6831 – rank 410
  - 6843 – rank 473
- Design a 3-to-5-year plan to address identified issues pending budget changes.

| Mission, KS (2018) | Circuit Rank (out of 1242) |
|--------------------|----------------------------|
| 6823               | 1015                       |
| 6824               | 900                        |
| 6831               | 378                        |
| 9123               | 1038                       |
| 6841               | 431                        |
| 6821               | 410                        |
| 6811               |                            |
| 6843               | 473                        |
| 6853               | 854                        |
| 9153               |                            |
| 6854               |                            |
| 9141               |                            |
| 6813               | 641                        |

| Mission, KS (2020) | Circuit Rank (out of 2268) |
|--------------------|----------------------------|
| 6823               | 147                        |
| 6824               | 868                        |
| 6831               | 1,721                      |
| 9123               | 1,503                      |
| 6841               | 341                        |
| 6821               | 597                        |
| 6811               | 1,292                      |
| 6843               | 1,553                      |
| 6853               | 165                        |
| 9153               | 997                        |
| 6854               | 330                        |
| 9141               | 962                        |
| 6813               | 906                        |

# Restoration Process

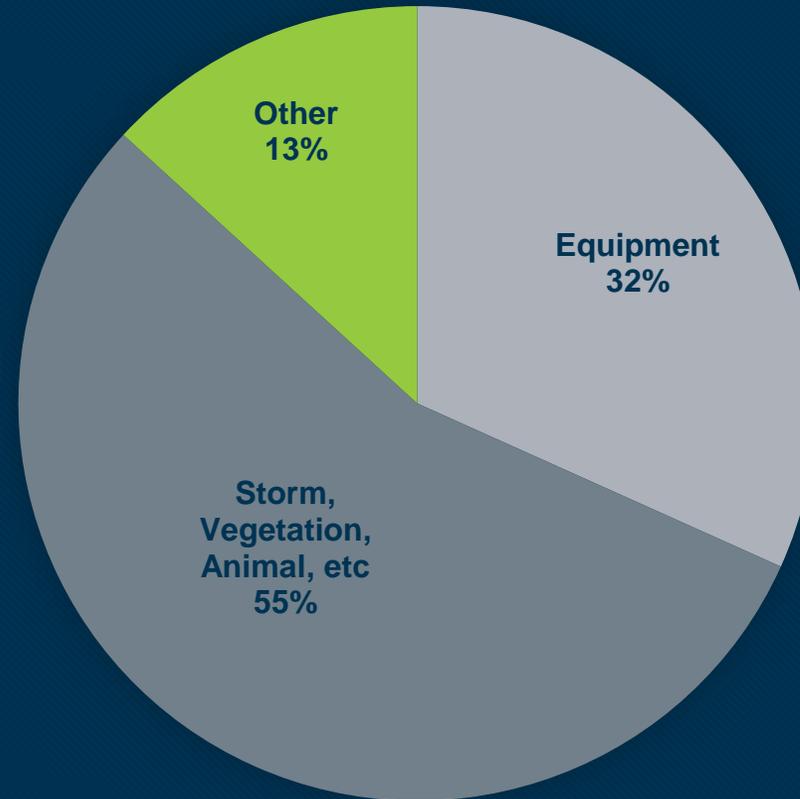
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- Restoring power is complex. Learn how Evergy brings the community back online.
- Power sometimes returns in a different order than you'd expect. We have a process in place to address critical needs first then the largest number of customers as quickly and safely as possible.
  - ✓ As outage reports come in, troubleshooters and sometimes damage assessment crews are sent to investigate the outage cause. This is why you may see an Evergy vehicle come and leave your neighborhood without power being restored.
  - ✓ Crews then repair or replace equipment as needed, removing all hazards.
  - ✓ Many times, tree trimming crews must remove trees or tree limbs before power can be restored.
  - ✓ Following a major storm, sometimes it's a matter of completely rebuilding parts of the electrical system to restore services, which can take lots of coordination and many hours to complete.
- Our goal is to restore power to the largest number of customers as quickly and safely as possible.



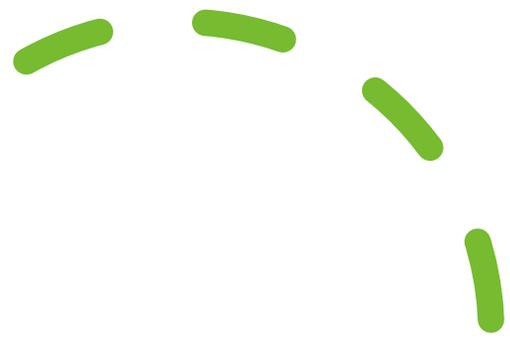
# Outage Cause

Johnson County & Southland Cause by Event



# Target Improvements

- Circuit clearance trimming
- Continue to coordinate with AT&T of replacement of AT&T pole ownership in areas that pole assets were identified as needing to be replaced
- Proactively replace various fuse mountings and overhead isolating switches
- Replace primary feeder cable when feeder cable faults create outage and customer load issues
- Replace identified assets and correct found issues
- Short term and long-term asset planning
- Reevaluate improvements and needed improvements



## Pole Owner Count

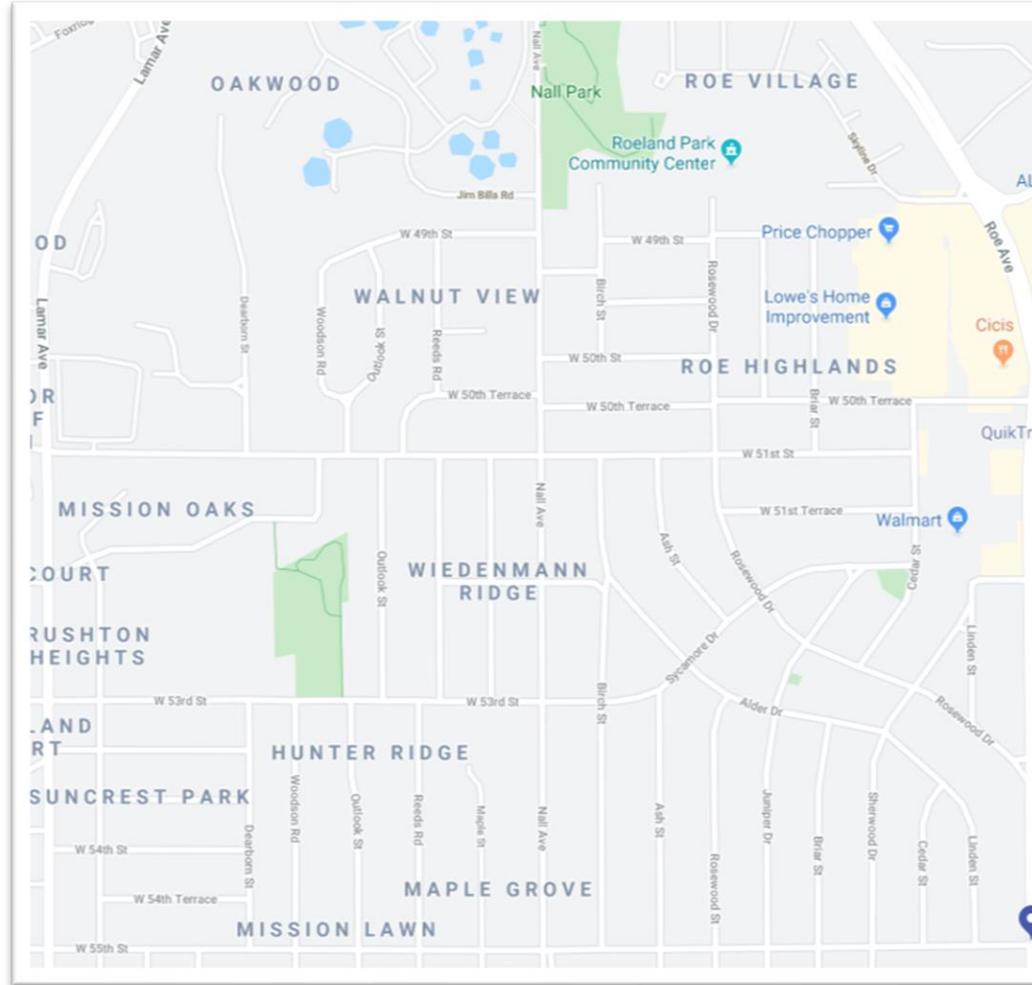
City of Mission 130

Evergy 2515

AT&T 1004



# Circuit 6843



Target date for completion:  
2019/2020 – Completed

North of W 51st St & West of Nall Ave, East of Dearborn St

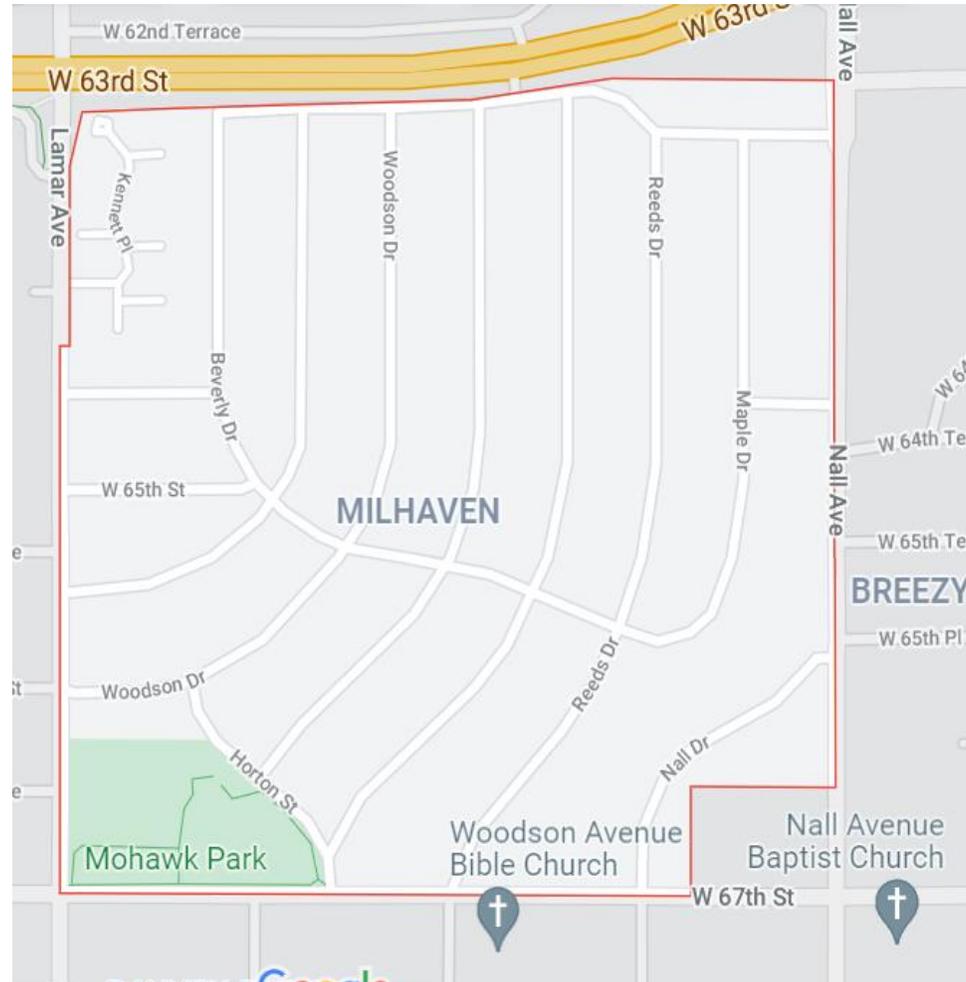
- North side property line easement of W 51st St
- East side property line easement of Outlook St
- East side property line easement of Woodson St
- East side property line easement of Dearborn St

Target date for completion:  
Spring 2022 (in design)

North of W 51st St, East of Nall Ave to Cedar St

- North of W 51st to W 49th St
- East and West property line easements of Rosewood St
- West property line easement of Juniper St
- East property line easements of Briar St

# Circuit 6841 - Milhaven

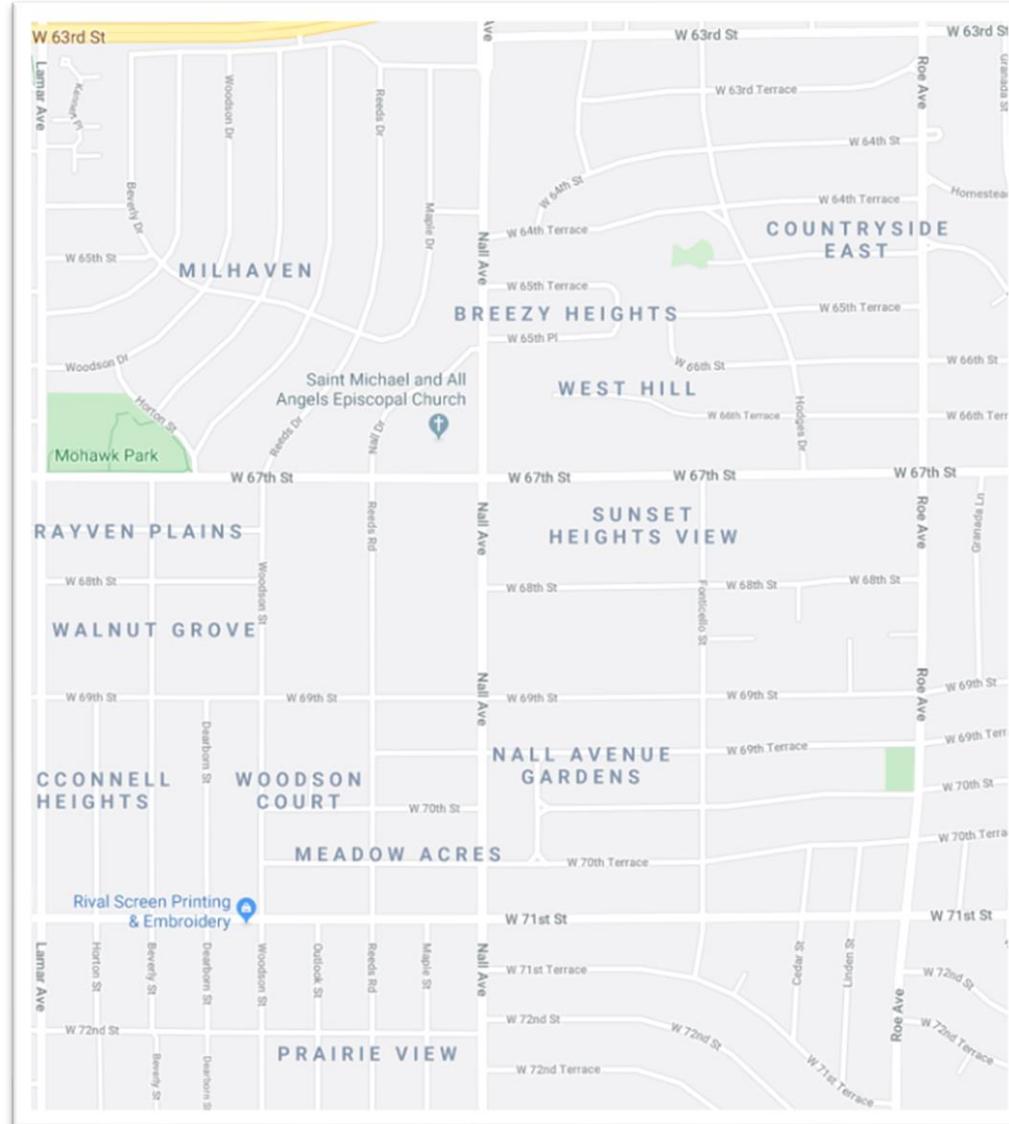


Target date for completion:  
4-year project

Phase 1: Winter 2021 into  
early 2022

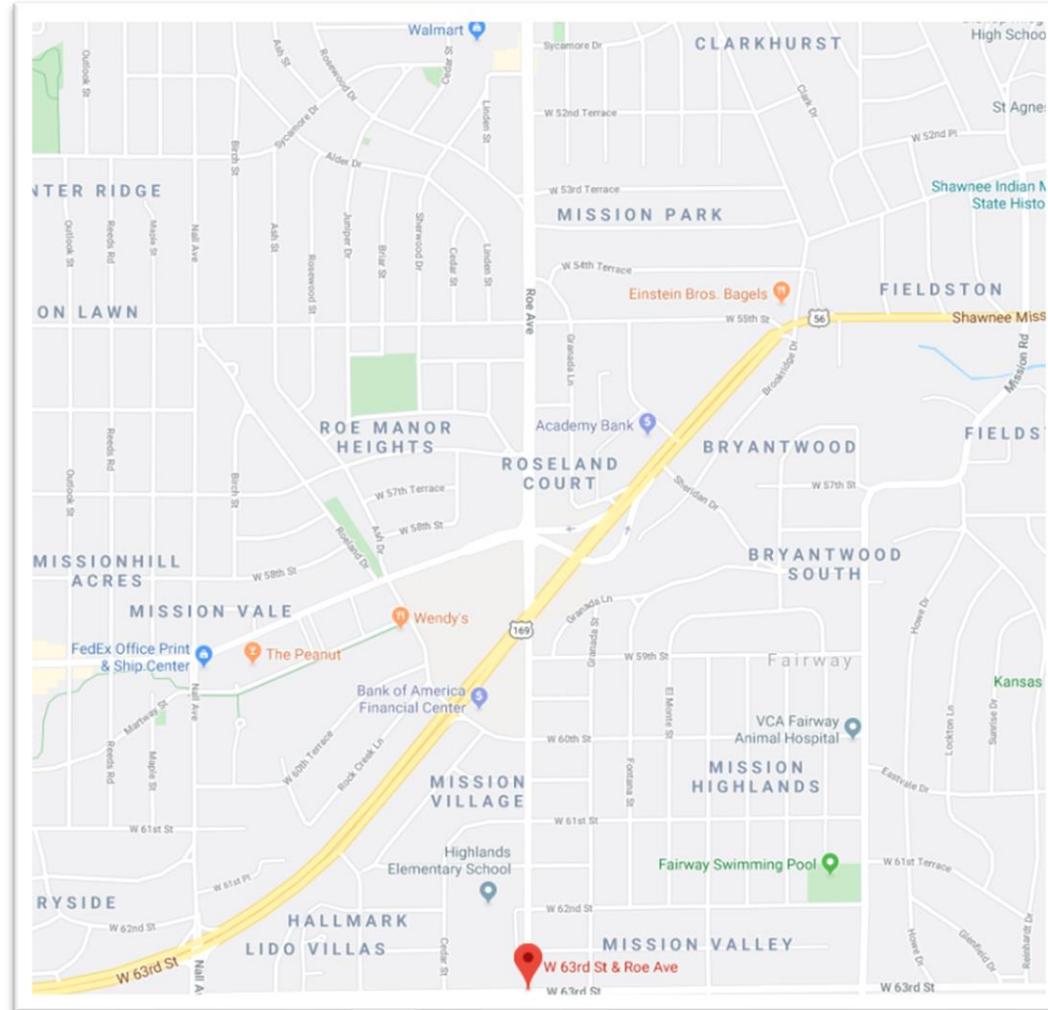
- Lamar & Dearborn east  
and north through  
Dearborn and Woodson  
east to Outlook
- Phase 2: 3-year plan

# Circuit 6813



Target date for completion:  
Spring 2022

# Circuit 6821

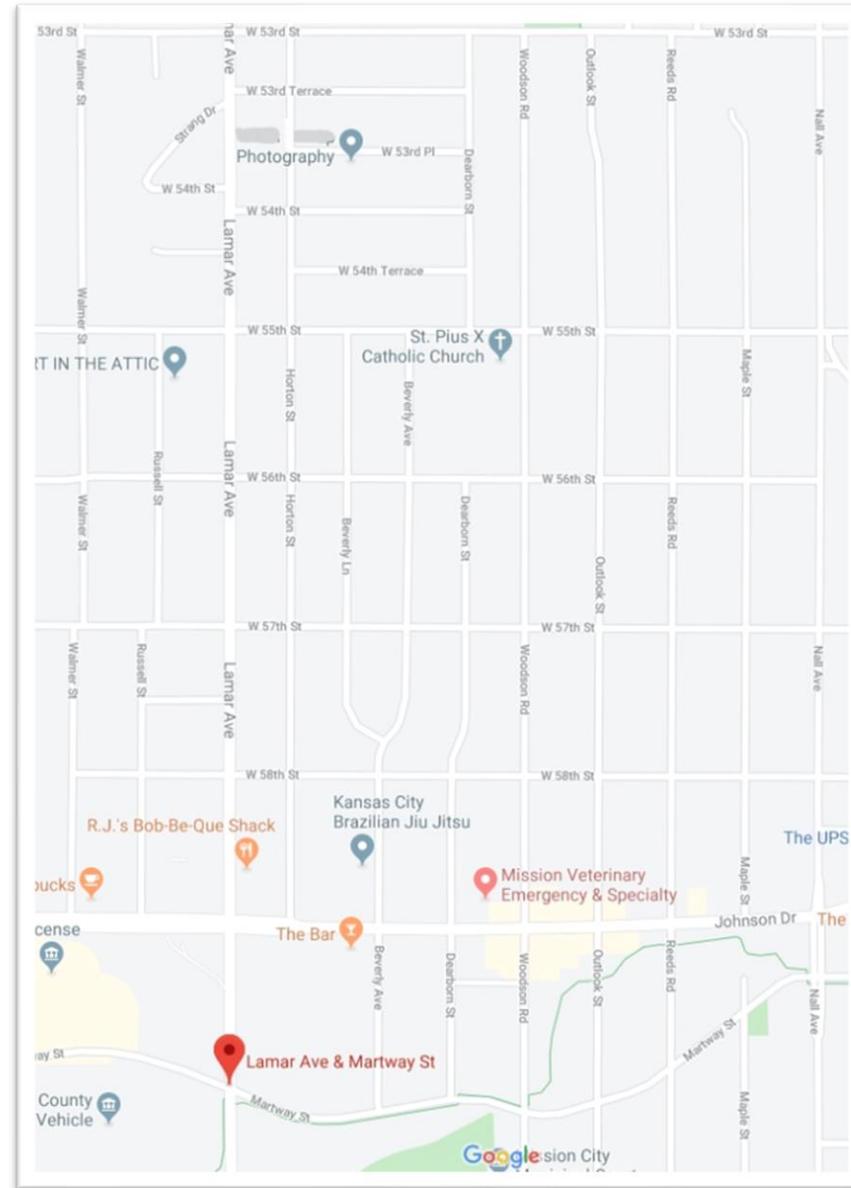


Target date for completion:  
2022

Southside W 55th St &  
West of Ash Dr.

- West property line easement of Rosewood St
- West property line easement of Briar St
- South of Alder Dr from Sycamore Dr to Sherwood Dr

# Circuit 6831



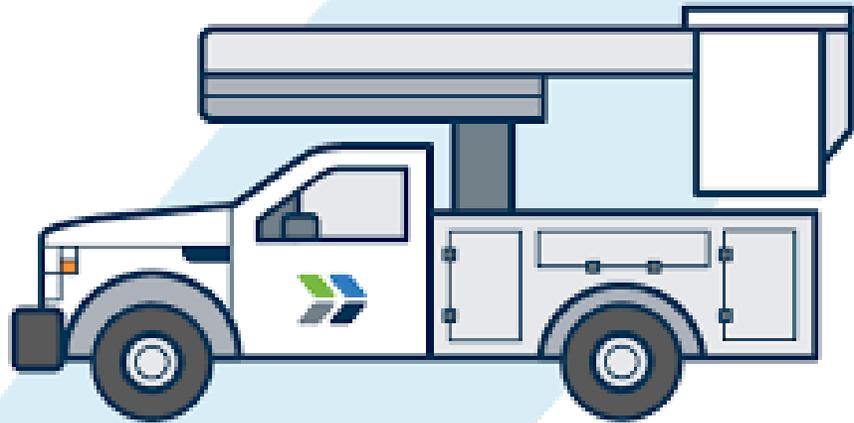
Target date for completion:  
Spring 2022

- Starting with: West property line of Nall Ave

Target date for completion:  
on-going

- South of W 53<sup>rd</sup> St, East of Walmer St to
- From W 53<sup>rd</sup> St south to Martway St

# Outage Alerts



- Stay connected and informed with text and email alerts.
- If you want to receive information or proactive alerts about your outage status, turn on text and/or email alerts in your preferences. Here's how:
  - Make sure you have an online account (register for an account if needed)
  - Toggle text and/or email alerts on in your preference 'Alerts'
  - For text alerts, you can text HELP at anytime for general help. And to unsubscribe, head back to preferences and toggle text or email outage alerts off.
- You can also toggle on bill reminders (text or email) in the same spot, using the same steps.

# Contacting Evergy

## Emergency and Outage Reporting

1-888-LIGHTKC  
(1-888-544-4852)

Online at [www.evergy.com](http://www.evergy.com)

## Service-related or billing questions

816-471-5275  
888-471-5275

Discover self-serve  
options and  
information online at  
[www.evergy.com](http://www.evergy.com)



### Report Outage Online

Report your outage online with  
ease.

Report Online



### Report Outage by Phone

Click "Call Now" below to directly  
call our outage number by phone.

Call Now

**Rebecca Galati**

Sr Customer Solutions Manager

913-652-1845 – office

Rebecca.Galati@evergy.com



|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 3a., 3b. and 3c. |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>Administration</b>      | From:        | Laura Smith      |

Action items require a vote to recommend the item to the full City Council for further action.

**RE: 2021A Series General Obligation Bonds**

**RECOMMENDATION:** Approve the winning bid as presented by Ehlers, Inc. from the October 20, 2021 bond sale, approve the Ordinance authorizing and providing for the issuance of the General Obligation Bonds, Series 2021A and approve the Resolution prescribing the form and details of and authorizing and directing the sale and delivery of the 2021A Bonds.

**DETAILS:** Following approval of the contract with the CTS Group for the Facility Conservation Improvement Program (FCIP) projects, staff and Council have been taking the preliminary steps to go to the market on October 20, 2021 to finance the various improvements included in the program.

The bond sale will occur on the morning of October 20 and results will be brought to the Council at the regularly scheduled legislative meeting. The Council will then take a series of actions to approve the winning bid and move the bond sale to closing. Those steps include:

1. Approve the winning bid as presented by Ehlers, Inc.
2. Approve an Ordinance authorizing and providing for the issuance of the General Obligation Bonds, Series 2021A
3. Approve a Resolution prescribing the form and details of an authorizing and directing the sale and delivery of the Series 2021A Bonds.

The preliminary official statement issued in connection with the bond sale was published on October 7, 2021 and may be viewed [here](#). The City had a rating call on October 6, 2021 with Standard & Poor's and the AA+ rating was affirmed for this issue. The final rating report is included in the packet for your review and information. Finally, as discussed during the Committee meetings, the City has self-designated this issue as "green bonds" due to the estimated environmental benefits to be derived from the improvements.

Bond proceeds from this sale are expected to be available in November.

**CFAA CONSIDERATIONS/IMPACTS: NA**

|                                 |  |
|---------------------------------|--|
| Related Statute/City Ordinance: | Art. 12, Section 5 of the Kansas Constitution, K.S.A. 12-1736 <i>et. seq</i> , <i>City of Mission Charter Ordinance 32</i> |
| Line Item Code/Description:     | NA   |
| Available Budget:               | NA   |

## G.O. BASIC DOCUMENTS

- A. Excerpt of Minutes of Meeting approving sale, approving Ordinance/Bond Resolution
- B. Ordinance
- C. Summary Ordinance for Publication
- D. Bond Resolution

**EXCERPT OF MINUTES OF A MEETING  
OF THE CITY COUNCIL OF  
THE CITY OF MISSION, KANSAS  
HELD ON OCTOBER 20, 2021**

The City Council (the "Governing Body") met in regular session at the usual meeting place in the City, at 7:00 p.m., the following members being present and participating, to-wit:

\_\_\_\_\_.

Absent: \_\_\_\_\_.

The Mayor declared that a quorum was present and called the meeting to order.

\* \* \* \* \*

(Other Proceedings)

The City Administrator reported that pursuant to the Notice of Bond Sale duly given, bids for the purchase of General Obligation Bonds, Series 2021A, dated November 10, 2021, of the City had been received. A tabulation of said bids is set forth as *EXHIBIT A* hereto.

The Governing Body reviewed and considered the bids and it was found and determined that the bid of \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, Country Club Bank, Leawood, Kansas, was the best bid for the Bonds, a copy of which is attached hereto as *EXHIBIT B*.

There was presented an Ordinance entitled:

**AN ORDINANCE AUTHORIZING AND PROVIDING FOR THE ISSUANCE OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS; PROVIDING FOR THE LEVY AND COLLECTION OF AN ANNUAL TAX FOR THE PURPOSE OF PAYING THE PRINCIPAL OF AND INTEREST ON SAID BONDS AS THEY BECOME DUE; AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS IN CONNECTION THEREWITH; AND MAKING CERTAIN COVENANTS WITH RESPECT THERETO.**

Councilmember \_\_\_\_\_ moved that said Ordinance be passed. The motion was seconded by Councilmember \_\_\_\_\_. Said Ordinance was duly read and considered, and upon being put, the motion for the passage of said Ordinance was carried by the vote of the Governing Body, the vote being as follows:

Yea: \_\_\_\_\_.

Nay: \_\_\_\_\_.

The Mayor declared said Ordinance duly passed and the Ordinance was then duly numbered Ordinance No. \_\_\_\_\_, was signed and approved by the Mayor and attested by the Clerk and the Ordinance or a summary thereof was directed to be published one time in the official newspaper of the City.

There was presented a Resolution entitled:

**A RESOLUTION PRESCRIBING THE FORM AND DETAILS OF AND AUTHORIZING AND DIRECTING THE SALE AND DELIVERY OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS, PREVIOUSLY AUTHORIZED BY ORDINANCE NO. \_\_\_\_ OF THE ISSUER; MAKING CERTAIN COVENANTS AND AGREEMENTS TO PROVIDE FOR THE PAYMENT AND SECURITY THEREOF; AND AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS CONNECTED THEREWITH.**

Councilmember \_\_\_\_\_ moved that said Resolution be adopted. The motion was seconded by Councilmember \_\_\_\_\_. Said Resolution was duly read and considered, and upon being put, the motion for the adoption of said Resolution was carried by the vote of the Governing Body, the vote being as follows:

Yea: \_\_\_\_\_.

Nay: \_\_\_\_\_.

The Mayor declared said Resolution duly adopted and the Resolution was then duly numbered Resolution No. \_\_\_\_ and was signed by the Mayor and attested by the Clerk.

\*\*\*\*\*

(Other Proceedings)

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On motion duly made, seconded and carried, the meeting thereupon adjourned.

**CERTIFICATE**

I hereby certify that the foregoing Excerpt of Minutes is a true and correct excerpt of the proceedings of the Governing Body of Mission, Kansas, held on the date stated therein, and that the official minutes of such proceedings are on file in my office.

(SEAL)

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Audrey McClanahan, Clerk

***EXHIBIT A***

**BID TABULATION**

**[See attached]**

***EXHIBIT B***

**BID OF PURCHASER**

**[See attached]**

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**ORDINANCE NO. \_\_\_\_\_**

**OF**

**THE CITY OF MISSION, KANSAS**

**PASSED**

**OCTOBER 20, 2021**

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**GENERAL OBLIGATION BONDS  
SERIES 2021A**

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**ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE AUTHORIZING AND PROVIDING FOR THE ISSUANCE OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS; PROVIDING FOR THE LEVY AND COLLECTION OF AN ANNUAL TAX FOR THE PURPOSE OF PAYING THE PRINCIPAL OF AND INTEREST ON SAID BONDS AS THEY BECOME DUE; AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS IN CONNECTION THEREWITH; AND MAKING CERTAIN COVENANTS WITH RESPECT THERETO.**

**WHEREAS**, the City of Mission, Kansas (the “City”) is a city of the second class, duly created, organized and existing under the Constitution and laws of the State; and

**WHEREAS**, by proceedings duly had, the City Council of the City (the “Governing Body”) has authorized the following improvements (collectively, the “Improvements”) to be made in the City, to-wit:

| <u>Project Description</u>   | <u>Res. No.</u>      | <u>Authority</u>  | <u>Amount</u> |
|------------------------------|----------------------|---|---------------|
| Public Building Improvements | 1081                 | K.S.A. 12-1736 <i>et seq.</i>   | \$3,000,000   |
| Street Light Program         | <del>1081</del> 1092 | Art. 12, Sec. 5 of the Kansas Constitution;<br>Charter Ordinance No. 32 | 422,000       |

; and

**WHEREAS**, the Governing Body is authorized by law to issue general obligation bonds of the City to pay a portion of the costs of the Improvements; and

**WHEREAS**, the Governing Body has advertised the sale of the Bonds in accordance with the law and at a meeting held in the City on this date awarded the sale of such Bonds to the best bidder.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MISSION, KANSAS, AS FOLLOWS:**

**Section 1. Definitions of Words and Terms.** In addition to words and terms defined elsewhere herein, the following words and terms in this Ordinance shall have the meanings hereinafter set forth. Unless the context shall otherwise indicate, words importing the singular number shall include the plural and vice versa, and words importing persons shall include firms, associations and corporations, including public bodies, as well as natural persons.

“**Act**” means the Constitution and statutes of the State including K.S.A. 10-101 to 10-125, inclusive, K.S.A. 10-620 *et seq.*, and K.S.A. 12-1736 *et seq.*, Charter Ordinance No. 32 of the Issuer, and Article 12, Section 5 of the Constitution of the State of Kansas, all as amended and supplemented from time to time.

“**Bond and Interest Fund**” means the Bond and Interest Fund of the City for its general obligation bonds.

“**Bond Resolution**” means the resolution to be adopted by the Governing Body prescribing the terms and details of the Bonds and making covenants with respect thereto.

“**Bonds**” means the City’s General Obligation Bonds, Series 2021A, dated November 10, 2021, authorized by this Ordinance.

“**City**” means the City of Mission, Kansas.

“**Clerk**” means the duly appointed and acting Clerk of the City or, in the Clerk’s absence, the duly appointed Deputy, Assistant or Acting Clerk.

“**Governing Body**” means the City Council of the City.

“**Mayor**” means the duly elected and acting Mayor of the City or, in the Mayor’s absence, the duly appointed and/or elected Vice Mayor or Acting Mayor of the City.

“**Ordinance**” means this Ordinance authorizing the issuance of the Bonds.

“**State**” means the State of Kansas.

“**Substitute Improvements**” means the substitute or additional improvements of the City authorized in the manner set forth in the Bond Resolution.

**Section 2. Authorization of the Bonds.** There shall be issued and hereby are authorized and directed to be issued the General Obligation Bonds, Series 2021A, of the City in the principal amount of ~~[\$[PRINCIPAL AMOUNT]]~~, \$3,205,000, for the purpose of providing funds to: (a) pay a portion of the costs of the Improvements and (b) pay costs of issuance of the Bonds.

**Section 3. Security for the Bonds.** The Bonds shall be general obligations of the City payable as to both principal and interest from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property, real and personal, within the territorial limits of the City. The full faith, credit and resources of the City are hereby irrevocably pledged for the prompt payment of the principal of and interest on the Bonds as the same become due.

**Section 4. Terms, Details and Conditions of the Bonds.** The Bonds shall be dated and bear interest, shall mature and be payable at such times, shall be in such forms, shall be subject to redemption and payment prior to the maturity thereof, and shall be issued and delivered in the manner prescribed and subject to the provisions, covenants and agreements set forth in the Bond Resolution hereafter adopted by the Governing Body.

**Section 5. Levy and Collection of Annual Tax.** The Governing Body shall annually make provision for the payment of principal of, premium, if any, and interest on the Bonds as the same become due by levying and collecting the necessary taxes upon all of the taxable tangible property within the City in the manner provided by law.

The taxes above referred to shall be extended upon the tax rolls in each of the several years, respectively, and shall be levied and collected at the same time and in the same manner as the general ad valorem taxes of the City are levied and collected, shall be used solely for the payment of the principal of and interest on the Bonds as and when the same become due and the fees and expenses of the paying agent for the Bonds. The proceeds derived from said taxes shall be deposited in the Bond and Interest Fund.

If at any time said taxes are not collected in time to pay the principal of or interest on the Bonds when due, the City Treasurer is hereby authorized and directed to pay said principal or interest out of the

general funds of the City and to reimburse said general funds for money so expended when said taxes are collected.

**Section 6. Further Authority.** The Mayor, Clerk and other City officials are hereby further authorized and directed to execute any and all documents and take such actions as they may deem necessary or advisable in order to carry out and perform the purposes of the Ordinance, and to make alterations, changes or additions in the foregoing agreements, statements, instruments and other documents herein approved, authorized and confirmed which they may approve, and the execution or taking of such action shall be conclusive evidence of such necessity or advisability.

**Section 7. Governing Law.** This Ordinance and the Bonds shall be governed exclusively by and construed in accordance with the applicable laws of the State.

**Section 8. Effective Date.** This Ordinance shall take effect and be in full force from and after its passage by the Governing Body, approval by the Mayor and publication of this Ordinance or a summary thereof in the official City newspaper.

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**PASSED** by the Governing Body on October 20, 2021 and **APPROVED AND SIGNED** by the Mayor.

(SEAL)

---

Ronald E. Appletoft, Mayor

ATTEST:

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Audrey McClanahan, City Clerk

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[SUMMARY BOND ORDINANCE FOR PUBLICATION]

(PUBLISHED IN *THE LEGAL RECORD* ON OCTOBER 26, 2021)

SUMMARY OF ORDINANCE NO. \_\_\_\_

On October 20, 2021, the governing body of the City of Mission, Kansas passed an ordinance entitled:

**AN ORDINANCE AUTHORIZING AND PROVIDING FOR THE ISSUANCE OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS; PROVIDING FOR THE LEVY AND COLLECTION OF AN ANNUAL TAX FOR THE PURPOSE OF PAYING THE PRINCIPAL OF AND INTEREST ON SAID BONDS AS THEY BECOME DUE; AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS IN CONNECTION THEREWITH; AND MAKING CERTAIN COVENANTS WITH RESPECT THERETO.**

The Series 2021A Bonds approved by the Ordinance are being issued in the principal amount stated therein to finance certain internal improvements in the City, and constitute general obligations of the City payable as to both principal and interest, to the extent necessary, from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property, real and personal, within the territorial limits of the City. A complete text of the Ordinance may be obtained or viewed free of charge at the office of the City, 6090 Woodson, Mission, Kansas. A reproduction of the Ordinance is available for not less than 7 days following the publication date of this Summary at [www.missionks.org](http://www.missionks.org).

This Summary is hereby certified to be legally accurate and sufficient pursuant to the laws of the State of Kansas.

DATED: October 20, 2021.

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City Attorney

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**RESOLUTION NO. \_\_\_\_\_**

**OF**

**CITY OF MISSION, KANSAS**

**ADOPTED**

**OCTOBER 20, 2021**

**GENERAL OBLIGATION BONDS  
SERIES 2021A**

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RESOLUTION NO. \_\_\_\_

**A RESOLUTION PRESCRIBING THE FORM AND DETAILS OF AND AUTHORIZING AND DIRECTING THE SALE AND DELIVERY OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS, PREVIOUSLY AUTHORIZED BY ORDINANCE NO. \_\_\_\_ OF THE ISSUER; MAKING CERTAIN COVENANTS AND AGREEMENTS TO PROVIDE FOR THE PAYMENT AND SECURITY THEREOF; AND AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS CONNECTED THEREWITH.**

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**WHEREAS**, the Issuer has passed the Ordinance authorizing the issuance of the Bonds; and

**WHEREAS**, the Ordinance authorized the City Council of the Issuer (the “Governing Body”) to adopt a resolution prescribing certain details and conditions and to make certain covenants with respect to the issuance of the Bonds.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF MISSION, KANSAS, AS FOLLOWS:**

**ARTICLE I**

**DEFINITIONS**

**Section 101. Definitions of Words and Terms.** In addition to words and terms defined elsewhere herein, the following words and terms as used in this Bond Resolution shall have the meanings hereinafter set forth. Unless the context shall otherwise indicate, words importing the singular number shall include the plural and vice versa, and words importing persons shall include firms, associations and corporations, including public bodies, as well as natural persons.

“**Act**” means the Constitution and statutes of the State including K.S.A. 10-101 to 10-125, inclusive, K.S.A. 10-620 *et seq.*, K.S.A. 12-1736 *et seq.*, Charter Ordinance No. 32 of the Issuer, and Article 12, Section 5 of the Constitution of the State of Kansas, all as amended and supplemented from time to time.

“**Authorized Denomination**” means \$5,000 or any integral multiples thereof.

“**Beneficial Owner**” of the Bonds includes any Owner of the Bonds and any other Person who, directly or indirectly has the investment power with respect to such Bonds.

“**Bond and Interest Fund**” means the Bond and Interest Fund of the Issuer for its general obligation bonds.

“**Bond Counsel**” means the firm of Gilmore & Bell, P.C., or any other attorney or firm of attorneys whose expertise in matters relating to the issuance of obligations by states and their political subdivisions is nationally recognized and acceptable to the Issuer.

“**Bond Payment Date**” means any date on which principal of or interest on any Bond is payable.

**“Bond Register”** means the books for the registration, transfer and exchange of Bonds kept at the office of the Bond Registrar.

**“Bond Registrar”** means the State Treasurer, and any successors and assigns.

**“Bond Resolution”** means this resolution relating to the Bonds.

**“Bonds” or “Bond”** means the General Obligation Bonds, Series 2021A, authorized and issued by the Issuer pursuant to the Ordinance and this Bond Resolution.

**“Business Day”** means a day other than a Saturday, Sunday or any day designated as a holiday by the Congress of the United States or by the Legislature of the State and on which the Paying Agent is scheduled in the normal course of its operations to be open to the public for conduct of its operations.

**“Cede & Co.”** means Cede & Co., as nominee of DTC and any successor nominee of DTC.

**“City”** means the City of Mission, Kansas.

**“Clerk”** means the duly appointed and/or elected Clerk or, in the Clerk’s absence, the duly appointed Deputy Clerk or Acting Clerk of the Issuer.

**“Code”** means the Internal Revenue Code of 1986, as amended, and the applicable regulations promulgated thereunder by the United States Department of the Treasury.

**“Costs of Issuance”** means all costs of issuing the Bonds, including but not limited to all publication, printing, signing and mailing expenses in connection therewith, registration fees, financial advisory fees, all legal fees and expenses of Bond Counsel and other legal counsel, expenses incurred in connection with compliance with the Code, all expenses incurred in connection with receiving ratings on the Bonds, and any premiums or expenses incurred in obtaining municipal bond insurance on the Bonds.

**“Dated Date”** means November 10, 2021.

**“Debt Service Account”** means the Debt Service Account for General Obligation Bonds, Series 2021A created within the Bond and Interest Fund pursuant to **Section 501** hereof.

**“Debt Service Requirements”** means the aggregate principal payments (whether at maturity or pursuant to scheduled mandatory sinking fund redemption requirements) and interest payments on the Bonds for the period of time for which calculated; provided, however, that for purposes of calculating such amount, principal and interest shall be excluded from the determination of Debt Service Requirements to the extent that such principal or interest is payable from amounts deposited in trust, escrowed or otherwise set aside for the payment thereof with the Paying Agent or other commercial bank or trust company located in the State and having full trust powers.

**“Defaulted Interest”** means interest on any Bond which is payable but not paid on any Interest Payment Date.

**“Defeasance Obligations”** means any of the following obligations:

(a) United States Government Obligations that are not subject to redemption in advance of their maturity dates; or

(b) obligations of any state or political subdivision of any state, the interest on which is excluded from gross income for federal income tax purposes and which meet the following conditions:

(1) the obligations are (i) not subject to redemption prior to maturity or (ii) the trustee for such obligations has been given irrevocable instructions concerning their calling and redemption and the issuer of such obligations has covenanted not to redeem such obligations other than as set forth in such instructions;

(2) the obligations are secured by cash or United States Government Obligations that may be applied only to principal of, premium, if any, and interest payments on such obligations;

(3) such cash and the principal of and interest on such United States Government Obligations (plus any cash in the escrow fund) are sufficient to meet the liabilities of the obligations;

(4) such cash and United States Government Obligations serving as security for the obligations are held in an escrow fund by an escrow agent or a trustee irrevocably in trust;

(5) such cash and United States Government Obligations are not available to satisfy any other claims, including those against the trustee or escrow agent; and

(6) such obligations are rated in a rating category by Moody’s or Standard & Poor’s that is no lower than the rating category then assigned by that Rating Agency to United States Government Obligations.

**“Derivative”** means any investment instrument whose market price is derived from the fluctuating value of an underlying asset, index, currency, futures contract, including futures, options and collateralized mortgage obligations.

**“Disclosure Undertaking”** means the Continuing Disclosure Undertaking dated as of the Dated Date relating to certain obligations contained in the SEC Rule.

**“DTC”** means The Depository Trust Company, a limited-purpose trust company organized under the laws of the State of New York, and its successors and assigns, including any successor securities depository duly appointed.

**“DTC Representation Letter”** means the Blanket Letter of Representation from the Issuer and the Paying Agent to DTC which provides for a book-entry system, or any agreement between the Issuer and Paying Agent and a successor securities depository duly appointed.

**“Event of Default”** means each of the following occurrences or events:

(a) Payment of the principal and of the redemption premium, if any, of any of the Bonds shall not be made when the same shall become due and payable, either at Stated Maturity or by proceedings for redemption or otherwise;

(b) Payment of any installment of interest on any of the Bonds shall not be made when the same shall become due; or

(c) The Issuer shall default in the due and punctual performance of any other of the covenants, conditions, agreements and provisions contained in the Bonds or in this Bond Resolution (other than the covenants relating to continuing disclosure requirements contained herein and in the Disclosure Undertaking) on the part of the Issuer to be performed, and such default shall continue for thirty (30) days after written notice specifying such default and requiring same to be remedied shall have been given to the Issuer by the Owner of any of the Bonds then Outstanding.

**“Federal Tax Certificate”** means the Issuer’s Federal Tax Certificate dated as of the Issue Date, as the same may be amended or supplemented in accordance with the provisions thereof.

**“Financeable Costs”** means the amount of expenditure for an Improvement which has been duly authorized by action of the Governing Body to be financed by general obligation bonds, less: (a) the amount of any temporary notes or general obligation bonds of the Issuer which are currently Outstanding and available to pay such Financeable Costs; and (b) any amount of Financeable Costs which has been previously paid by the Issuer or by any eligible source of funds unless such amounts are entitled to be reimbursed to the Issuer under State or federal law.

**“Fiscal Year”** means the twelve month period ending on December 31.

**“Funds and Accounts”** means funds and accounts created pursuant to or referred to in *Section 501* hereof.

**“Governing Body”** means the City Council of the Issuer.

**“Improvement Fund”** means the Improvement Fund for General Obligation Bonds, Series 2021A created pursuant to *Section 501* hereof.

**“Improvements”** means the improvements referred to in the preamble to the Ordinance and any Substitute Improvements.

**“Independent Accountant”** means an independent certified public accountant or firm of independent certified public accountants at the time employed by the Issuer for the purpose of carrying out the duties imposed on the Independent Accountant by this Bond Resolution.

**“Interest Payment Date(s)”** means the Stated Maturity of an installment of interest on any Bond which shall be March 1 and September 1 of each year, commencing March 1, 2022.

**“Issue Date”** means the date when the Issuer delivers the Bonds to the Purchaser in exchange for the Purchase Price.

**“Issuer”** means the City and any successors or assigns.

**“Maturity”** when used with respect to any Bond means the date on which the principal of such Bond becomes due and payable as therein and herein provided, whether at the Stated Maturity thereof or call for redemption or otherwise.

**“Mayor”** means the duly elected and acting Mayor, or in the Mayor’s absence, the duly appointed and/or elected Vice Mayor or Acting Mayor of the Issuer.

“**Moody’s**” means Moody’s Investors Service, a corporation organized and existing under the laws of the State of Delaware, and its successors and assigns, and, if such corporation shall be dissolved or liquidated or shall no longer perform the functions of a securities rating agency, “Moody’s” shall be deemed to refer to any other nationally recognized securities rating agency designated by the Issuer.

“**Notice Address**” means with respect to the following entities:

(a) To the Issuer at:

6090 Woodson Road  
Mission, Kansas 66202  
Fax: (913)722-1415

(b) To the Paying Agent at:

State Treasurer of the State of Kansas  
Landon Office Building  
900 Southwest Jackson, Suite 201  
Topeka, Kansas 66612-1235  
Fax: (785) 296-6976

(c) To the Purchaser:

[Country Club Bank  
9400 Mission Road  
]Leawood, Kansas 66206

(d) To the Rating Agency:

S&P Global Ratings, a division of S&P Global Inc.  
55 Water Street, 38th Floor  
New York, New York 10004

or such other address as is furnished in writing to the other parties referenced herein.

“**Notice Representative**” means:

- (a) With respect to the Issuer, the Clerk.
- (b) With respect to the Bond Registrar and Paying Agent, the Director of Bond Services.
- (c) With respect to any Purchaser, the manager of its Municipal Bond Department.
- (d) With respect to any Rating Agency, any Vice President thereof.

“**Official Statement**” means Issuer’s Official Statement relating to the Bonds.

“**Ordinance**” means Ordinance No. [ ] of the Issuer authorizing the issuance of the Bonds, as amended from time to time.

**“Outstanding”** means, when used with reference to the Bonds, as of a particular date of determination, all Bonds theretofore authenticated and delivered, except the following Bonds:

- (a) Bonds theretofore canceled by the Paying Agent or delivered to the Paying Agent for cancellation;
- (b) Bonds deemed to be paid in accordance with the provisions of *Article VII* hereof; and
- (c) Bonds in exchange for or in lieu of which other Bonds have been authenticated and delivered hereunder.

**“Owner”** when used with respect to any Bond means the Person in whose name such Bond is registered on the Bond Register. Whenever consent of the Owners is required pursuant to the terms of this Bond Resolution, and the Owner of the Bonds, as set forth on the Bond Register, is Cede & Co., the term Owner shall be deemed to be the Beneficial Owner of the Bonds.

**“Participants”** means those financial institutions for whom the Securities Depository effects book-entry transfers and pledges of securities deposited with the Securities Depository, as such listing of Participants exists at the time of such reference.

**“Paying Agent”** means the State Treasurer, and any successors and assigns.

**“Permitted Investments”** shall mean the investments hereinafter described, provided, however, no moneys or funds shall be invested in a Derivative: (a) investments authorized by K.S.A. 12-1675 and amendments thereto; (b) the municipal investment pool established pursuant to K.S.A. 12-1677a, and amendments thereto; (c) direct obligations of the United States Government or any agency thereof; (d) the Issuer’s temporary notes issued pursuant to K.S.A. 10-123 and amendments thereto; (e) interest-bearing time deposits in commercial banks or trust companies located in the county or counties in which the Issuer is located which are insured by the Federal Deposit Insurance Corporation or collateralized by securities described in (c); (f) obligations of the federal national mortgage association, federal home loan banks, federal home loan mortgage corporation or government national mortgage association; (g) repurchase agreements for securities described in (c) or (f); (h) investment agreements or other obligations of a financial institution the obligations of which at the time of investment are rated in either of the three highest rating categories by Moody’s or Standard & Poor’s; (i) investments and shares or units of a money market fund or trust, the portfolio of which is comprised entirely of securities described in (c) or (f); (j) receipts evidencing ownership interests in securities or portions thereof described in (c) or (f); (k) municipal bonds or other obligations issued by any municipality of the State as defined in K.S.A. 10-1101 which are general obligations of the municipality issuing the same; or (l) bonds of any municipality of the State as defined in K.S.A. 10-1101 which have been refunded in advance of their maturity and are fully secured as to payment of principal and interest thereon by deposit in trust, under escrow agreement with a bank, of securities described in (c) or (f), all as may be further restricted or modified by amendments to applicable State law.

**“Person”** means any natural person, corporation, partnership, joint venture, association, firm, joint-stock company, trust, unincorporated organization, or government or any agency or political subdivision thereof or other public body.

**“Purchase Price”** means the principal amount of the Bonds plus accrued interest to the date of delivery, plus a premium of \$~~\_\_\_\_\_~~, \$171,731.05, less an underwriting discount of \$~~\_\_\_\_\_~~, \$23,877.25.

**“Purchaser”** means ~~[Name of Purchaser], [Purchaser City, State],~~ Country Club Bank, Leawood, Kansas, the original purchaser of the Bonds, and any successor and assigns.

**“Rating Agency”** means any company, agency or entity that provides, pursuant to request of the Issuer, financial ratings for the Bonds.

**“Rebate Fund”** means the Rebate Fund for General Obligation Bonds, Series 2021A created pursuant to *Section 501* hereof.

**“Record Dates”** for the interest payable on any Interest Payment Date means the fifteenth day (whether or not a Business Day) of the calendar month next preceding such Interest Payment Date.

**“Redemption Date”** means, when used with respect to any Bond to be redeemed, the date fixed for the redemption of such Bond pursuant to the terms of this Bond Resolution.

**“Redemption Price”** means, when used with respect to any Bond to be redeemed, the price at which such Bond is to be redeemed pursuant to the terms of this Bond Resolution, including the applicable redemption premium, if any, but excluding installments of interest whose Stated Maturity is on or before the Redemption Date.

**“Replacement Bonds”** means Bonds issued to the Beneficial Owners of the Bonds in accordance with *Section 210* hereof.

**“SEC Rule”** means Rule 15c2-12 adopted by the Securities and Exchange Commission under the Securities Exchange Act of 1934.

**“Securities Depository”** means, initially, DTC, and its successors and assigns.

**“Special Record Date”** means the date fixed by the Paying Agent pursuant to *Article II* hereof for the payment of Defaulted Interest.

**“Standard & Poor's” or “S&P”** means S&P Global Ratings, a division of S&P Global Inc., a corporation organized and existing under the laws of the State of New York, and its successors and assigns, and, if such corporation shall be dissolved or liquidated or shall no longer perform the functions of a securities rating agency, Standard & Poor's shall be deemed to refer to any other nationally recognized securities rating agency designated by the Issuer.

**“State”** means the state of Kansas.

**“State Treasurer”** means the duly elected Treasurer or, in the Treasurer’s absence, the duly appointed Deputy Treasurer or acting Treasurer of the State.

**“Stated Maturity”** when used with respect to any Bond or any installment of interest thereon means the date specified in such Bond and this Bond Resolution as the fixed date on which the principal of such Bond or such installment of interest is due and payable.

**“Substitute Improvements”** means the substitute or additional improvements of the Issuer described in *Article V* hereof.

~~“20\_\_ Term Bonds” means the Bonds scheduled to mature in the year 20\_\_.~~

~~“20\_\_ Term Bonds” means the Bonds scheduled to mature in the year 20\_\_.~~

~~“Term Bonds” means collectively the 20\_\_ Term Bonds and the 20\_\_ Term Bonds.]~~

“Treasurer” means the duly appointed and/or elected Treasurer of the Issuer or, in the Treasurer’s absence, the duly appointed Deputy Treasurer or acting Treasurer of the Issuer.

“United States Government Obligations” means bonds, notes, certificates of indebtedness, treasury bills or other securities constituting direct obligations of, or obligations the principal of and interest on which are fully and unconditionally guaranteed as to full and timely payment by, the United States of America, including evidences of a direct ownership interest in future interest or principal payment on obligations issued by the United States of America (including the interest component of obligations of the Resolution Funding Corporation), or securities which represent an undivided interest in such obligations, which obligations are rated in the highest rating category by a nationally recognized rating service and such obligations are held in a custodial account for the benefit of the Issuer.

## ARTICLE II

### AUTHORIZATION AND DETAILS OF THE BONDS

**Section 201. Authorization of the Bonds.** The Bonds have been authorized and directed to be issued pursuant to the Ordinance in the principal amount of ~~[\$PRINCIPAL AMOUNT]~~, \$3,205,000, for the purpose of providing funds to: (a) pay a portion of the costs of the Improvements and (b) pay Costs of Issuance.

**Section 202. Description of the Bonds.** The Bonds shall consist of fully registered bonds in an Authorized Denomination, and shall be numbered in such manner as the Bond Registrar shall determine. All of the Bonds shall be dated as of the Dated Date, shall become due in the amounts, on the Stated Maturities, subject to redemption and payment prior to their Stated Maturities as provided in *Article III* hereof, and shall bear interest at the rates per annum as follows:

#### SERIAL BONDS

| <u>Stated Maturity<br/>September 1</u> | <u>Principal<br/>Amount</u> | <u>Annual Rate<br/>of Interest</u> | <u>Stated Maturity<br/>September 1</u> | <u>Principal<br/>Amount</u> | <u>Annual Rate<br/>of Interest</u> |
|--|-----------------------------|------------------------------------|--|-----------------------------|------------------------------------|
| 2022                                   | <u>\$190,000</u>            | <u>3.000%</u>                      | 2030                                   | <u>\$220,000</u>            | <u>2.000%</u>                      |
| 2023                                   | <u>185,000</u>              | <u>3.000</u>                       | 2031                                   | <u>220,000</u>              | <u>2.000</u>                       |
| 2024                                   | <u>190,000</u>              | <u>3.000</u>                       | 2032                                   | <u>225,000</u>              | <u>2.000</u>                       |
| 2025                                   | <u>195,000</u>              | <u>3.000</u>                       | 2033                                   | <u>230,000</u>              | <u>2.000</u>                       |
| 2026                                   | <u>200,000</u>              | <u>3.000</u>                       | 2034                                   | <u>235,000</u>              | <u>2.000</u>                       |
| 2027                                   | <u>205,000</u>              | <u>2.000</u>                       | 2035                                   | <u>240,000</u>              | <u>2.000</u>                       |
| 2028                                   | <u>210,000</u>              | <u>2.000</u>                       | 2036                                   | <u>245,000</u>              | <u>2.000</u>                       |
| 2029                                   | <u>215,000</u>              | <u>2.000</u>                       |  |                             |                                    |

#### ~~{TERM BONDS~~

~~Stated Maturity  
September 1  
20\_\_~~      ~~Principal  
Amount  
\$\_\_\_\_\_~~      ~~Annual Rate  
of Interest  
\_\_\_\_\_%~~

The Bonds shall bear interest at the above specified rates (computed on the basis of a 360-day year of twelve 30-day months) from the later of the Dated Date or the most recent Interest Payment Date to which interest has been paid on the Interest Payment Dates in the manner set forth in **Section 204** hereof.

Each of the Bonds, as originally issued or issued upon transfer, exchange or substitution, shall be printed in accordance with the format required by the Attorney General of the State and shall be substantially in the form attached hereto as **EXHIBIT A** or as may be required by the Attorney General pursuant to the Notice of Systems of Registration for Kansas Municipal Bonds, 2 Kan. Reg. 921 (1983), in accordance with the Kansas Bond Registration Law, K.S.A. 10-620 *et seq.*

**Section 203. Designation of Paying Agent and Bond Registrar.** The State Treasurer is hereby designated as the Paying Agent for the payment of principal of and interest on the Bonds and Bond Registrar with respect to the registration, transfer and exchange of Bonds. The Mayor of the Issuer is hereby authorized and empowered to execute on behalf of the Issuer an agreement with the Bond Registrar and Paying Agent for the Bonds.

The Issuer will at all times maintain a Paying Agent and Bond Registrar meeting the qualifications herein described for the performance of the duties hereunder. The Issuer reserves the right to appoint a successor Paying Agent or Bond Registrar by (a) filing with the Paying Agent or Bond Registrar then performing such function a certified copy of the proceedings giving notice of the termination of such Paying Agent or Bond Registrar and appointing a successor, and (b) causing notice of appointment of the successor Paying Agent and Bond Registrar to be given by first class mail to each Owner. No resignation or removal of the Paying Agent or Bond Registrar shall become effective until a successor has been appointed and has accepted the duties of Paying Agent or Bond Registrar.

Every Paying Agent or Bond Registrar appointed hereunder shall at all times meet the requirements of K.S.A. 10-501 *et seq.* and K.S.A. 10-620 *et seq.*, respectively.

**Section 204. Method and Place of Payment of the Bonds.** The principal of, or Redemption Price, and interest on the Bonds shall be payable in any coin or currency which, on the respective dates of payment thereof, is legal tender for the payment of public and private debts.

The principal or Redemption Price of each Bond shall be paid at Maturity to the Person in whose name such Bond is registered on the Bond Register at the Maturity thereof, upon presentation and surrender of such Bond at the principal office of the Paying Agent.

The interest payable on each Bond on any Interest Payment Date shall be paid to the Owner of such Bond as shown on the Bond Register at the close of business on the Record Date for such interest (a) by check or draft mailed by the Paying Agent to the address of such Owner shown on the Bond Register or at such other address as is furnished to the Paying Agent in writing by such Owner; or (b) in the case of an interest payment to Cede & Co. or any Owner of \$500,000 or more in aggregate principal amount of Bonds, by electronic transfer to such Owner upon written notice given to the Bond Registrar by such Owner, not less than 15 days prior to the Record Date for such interest, containing the electronic transfer instructions including the bank ABA routing number and account number to which such Owner wishes to have such transfer directed.

Notwithstanding the foregoing provisions of this Section, any Defaulted Interest with respect to any Bond shall cease to be payable to the Owner of such Bond on the relevant Record Date and shall be payable to the Owner in whose name such Bond is registered at the close of business on the Special Record

Date for the payment of such Defaulted Interest, which Special Record Date shall be fixed as hereinafter specified in this paragraph. The Issuer shall notify the Paying Agent in writing of the amount of Defaulted Interest proposed to be paid on each Bond and the date of the proposed payment (which date shall be at least 30 days after receipt of such notice by the Paying Agent) and shall deposit with the Paying Agent at the time of such notice an amount of money equal to the aggregate amount proposed to be paid in respect of such Defaulted Interest or shall make arrangements satisfactory to the Paying Agent for such deposit prior to the date of the proposed payment. Following receipt of such funds the Paying Agent shall fix a Special Record Date for the payment of such Defaulted Interest which shall be not more than 15 nor less than 10 days prior to the date of the proposed payment. The Paying Agent shall promptly notify the Issuer of such Special Record Date and, in the name and at the expense of the Issuer, shall cause notice of the proposed payment of such Defaulted Interest and the Special Record Date therefore to be mailed, by first class mail, postage prepaid, to each Owner of a Bond entitled to such notice at the address of such Owner as it appears on the Bond Register not less than 10 days prior to such Special Record Date.

The Paying Agent shall keep a record of payment of principal and Redemption Price of and interest on all Bonds and at least annually shall forward a copy or summary of such records to the Issuer.

**Section 205. Payments Due on Saturdays, Sundays and Holidays.** In any case where a Bond Payment Date is not a Business Day, then payment of principal, Redemption Price or interest need not be made on such Bond Payment Date but may be made on the next succeeding Business Day with the same force and effect as if made on such Bond Payment Date, and no interest shall accrue for the period after such Bond Payment Date.

**Section 206. Registration, Transfer and Exchange of Bonds.** The Issuer covenants that, as long as any of the Bonds remain Outstanding, it will cause the Bond Register to be kept at the office of the Bond Registrar as herein provided. Each Bond when issued shall be registered in the name of the Owner thereof on the Bond Register.

Bonds may be transferred and exchanged only on the Bond Register as provided in this Section. Upon surrender of any Bond at the principal office of the Bond Registrar, the Bond Registrar shall transfer or exchange such Bond for a new Bond or Bonds in any Authorized Denomination of the same Stated Maturity and in the same aggregate principal amount as the Bond that was presented for transfer or exchange.

Bonds presented for transfer or exchange shall be accompanied by a written instrument or instruments of transfer or authorization for exchange, in a form and with guarantee of signature satisfactory to the Bond Registrar, duly executed by the Owner thereof or by the Owner's duly authorized agent.

In all cases in which the privilege of transferring or exchanging Bonds is exercised, the Bond Registrar shall authenticate and deliver Bonds in accordance with the provisions of this Bond Resolution. The Issuer shall pay the fees and expenses of the Bond Registrar for the registration, transfer and exchange of Bonds provided for by this Bond Resolution and the cost of printing a reasonable supply of registered bond blanks. Any additional costs or fees that might be incurred in the secondary market, other than fees of the Bond Registrar, are the responsibility of the Owners of the Bonds. In the event any Owner fails to provide a correct taxpayer identification number to the Paying Agent, the Paying Agent may make a charge against such Owner sufficient to pay any governmental charge required to be paid as a result of such failure. In compliance with Code § 3406, such amount may be deducted by the Paying Agent from amounts otherwise payable to such Owner hereunder or under the Bonds.

The Issuer and the Bond Registrar shall not be required (a) to register the transfer or exchange of any Bond that has been called for redemption after notice of such redemption has been mailed by the Paying

Agent pursuant to *Article III* hereof and during the period of 15 days next preceding the date of mailing of such notice of redemption; or (b) to register the transfer or exchange of any Bond during a period beginning at the opening of business on the day after receiving written notice from the Issuer of its intent to pay Defaulted Interest and ending at the close of business on the date fixed for the payment of Defaulted Interest pursuant to this *Article II*.

The Issuer and the Paying Agent may deem and treat the Person in whose name any Bond is registered on the Bond Register as the absolute Owner of such Bond, whether such Bond is overdue or not, for the purpose of receiving payment of, or on account of, the principal or Redemption Price of and interest on said Bond and for all other purposes. All payments so made to any such Owner or upon the Owner's order shall be valid and effective to satisfy and discharge the liability upon such Bond to the extent of the sum or sums so paid, and neither the Issuer nor the Paying Agent shall be affected by any notice to the contrary.

At reasonable times and under reasonable regulations established by the Bond Registrar, the Bond Register may be inspected and copied by the Owners (or a designated representative thereof) of 10% or more in principal amount of the Bonds then Outstanding or any designated representative of such Owners whose authority is evidenced to the satisfaction of the Bond Registrar.

**Section 207. Execution, Registration, Authentication and Delivery of Bonds.** Each of the Bonds, including any Bonds issued in exchange or as substitutions for the Bonds initially delivered, shall be executed for and on behalf of the Issuer by the manual, electronic or facsimile signature of the Mayor, attested by the manual, electronic or facsimile signature of the Clerk, and the seal of the Issuer shall be affixed thereto or imprinted thereon. The Mayor and Clerk are hereby authorized and directed to prepare and execute the Bonds in the manner herein specified, and to cause the Bonds to be registered in the office of the Clerk, which registration shall be evidenced by the manual, electronic or facsimile signature of the Clerk with the seal of the Issuer affixed thereto or imprinted thereon. The Bonds shall also be registered in the office of the State Treasurer, which registration shall be evidenced by the manual, electronic or facsimile signature of the State Treasurer with the seal of the State Treasurer affixed thereto or imprinted thereon. In case any officer whose signature appears on any Bonds ceases to be such officer before the delivery of such Bonds, such signature shall nevertheless be valid and sufficient for all purposes, as if such person had remained in office until delivery. Any Bond may be signed by such persons who at the actual time of the execution of such Bond are the proper officers to sign such Bond although at the date of such Bond such persons may not have been such officers.

The Mayor and Clerk are hereby authorized and directed to prepare and execute the Bonds as herein specified, and when duly executed, to deliver the Bonds to the Bond Registrar for authentication.

The Bonds shall have endorsed thereon a certificate of authentication substantially in the form attached hereto as *EXHIBIT A* hereof, which shall be manually executed by an authorized officer or employee of the Bond Registrar, but it shall not be necessary that the same officer or employee sign the certificate of authentication on all of the Bonds that may be issued hereunder at any one time. No Bond shall be entitled to any security or benefit under this Bond Resolution or be valid or obligatory for any purpose unless and until such certificate of authentication has been duly executed by the Bond Registrar. Such executed certificate of authentication upon any Bond shall be conclusive evidence that such Bond has been duly authenticated and delivered under this Bond Resolution. Upon authentication, the Bond Registrar shall deliver the Bonds to the Purchaser upon instructions of the Issuer or its representative.

**Section 208. Mutilated, Lost, Stolen or Destroyed Bonds.** If (a) any mutilated Bond is surrendered to the Bond Registrar or the Bond Registrar receives evidence to its satisfaction of the

destruction, loss or theft of any Bond, and (b) there is delivered to the Issuer and the Bond Registrar such security or indemnity as may be required by each of them, then, in the absence of notice to the Issuer or the Bond Registrar that such Bond has been acquired by a bona fide purchaser, the Issuer shall execute and, upon the Issuer's request, the Bond Registrar shall authenticate and deliver, in exchange for or in lieu of any such mutilated, destroyed, lost or stolen Bond, a new Bond of the same Stated Maturity and of like tenor and principal amount.

If any such mutilated, destroyed, lost or stolen Bond has become or is about to become due and payable, the Issuer, in its discretion, may pay such Bond instead of issuing a new Bond.

Upon the issuance of any new Bond under this Section, the Issuer and the Paying Agent may require the payment by the Owner of a sum sufficient to cover any tax or other governmental charge that may be imposed in relation thereto and any other expenses (including the fees and expenses of the Paying Agent) connected therewith.

Every new Bond issued pursuant to this Section shall constitute a replacement of the prior obligation of the Issuer, and shall be entitled to all the benefits of this Bond Resolution equally and ratably with all other Outstanding Bonds.

**Section 209. Cancellation and Destruction of Bonds Upon Payment.** All Bonds that have been paid or redeemed or that otherwise have been surrendered to the Paying Agent, either at or before Maturity, shall be cancelled by the Paying Agent immediately upon the payment, redemption and surrender thereof to the Paying Agent and subsequently destroyed in accordance with the customary practices of the Paying Agent. The Paying Agent shall execute a certificate in duplicate describing the Bonds so cancelled and destroyed and shall file an executed counterpart of such certificate with the Issuer.

**Section 210. Book-Entry Bonds; Securities Depository.** The Issuer and Paying Agent have entered into a DTC Representation Letter with DTC. The Bonds shall initially be registered to Cede & Co., the nominee for the Securities Depository, and no Beneficial Owner will receive certificates representing their respective interests in the Bonds, except in the event the Bond Registrar issues Replacement Bonds as provided in this Section. It is anticipated that during the term of the Bonds, the Securities Depository will make book-entry transfers among its Participants and receive and transmit payment of principal of, premium, if any, and interest on, the Bonds to the Participants until and unless the Bond Registrar authenticates and delivers Replacement Bonds to the Beneficial Owners as described in the following paragraph.

The Issuer may decide, subject to the requirements of the Operational Arrangements of DTC (or a successor Securities Depository), and the following provisions of this section to discontinue use of the system of book-entry transfers through DTC (or a successor Securities Depository):

(a) If the Issuer determines (1) that the Securities Depository is unable to properly discharge its responsibilities, or (2) that the Securities Depository is no longer qualified to act as a securities depository and registered clearing agency under the Securities and Exchange Act of 1934, as amended, or (3) that the continuation of a book-entry system to the exclusion of any Bonds being issued to any Owner other than Cede & Co. is no longer in the best interests of the Beneficial Owners of the Bonds; or

(b) if the Bond Registrar receives written notice from Participants having interests in not less than 50% of the Bonds Outstanding, as shown on the records of the Securities Depository (and certified to such effect by the Securities Depository), that the continuation of a book-entry system to the exclusion of any Bonds being issued to any Owner other than Cede & Co. is no longer in the best interests of the

Beneficial Owners of the Bonds, then the Bond Registrar shall notify the Owners of such determination or such notice and of the availability of certificates to Owners requesting the same, and the Bond Registrar shall register in the name of and authenticate and deliver Replacement Bonds to the Beneficial Owners or their nominees in principal amounts representing the interest of each, making such adjustments as it may find necessary or appropriate as to accrued interest and previous calls for redemption; provided, that in the case of a determination under (a)(1) or (a)(2) of this paragraph, the Issuer, with the consent of the Bond Registrar, may select a successor securities depository in accordance with the following paragraph to effect book-entry transfers.

In such event, all references to the Securities Depository herein shall relate to the period of time when the Securities Depository has possession of at least one Bond. Upon the issuance of Replacement Bonds, all references herein to obligations imposed upon or to be performed by the Securities Depository shall be deemed to be imposed upon and performed by the Bond Registrar, to the extent applicable with respect to such Replacement Bonds. If the Securities Depository resigns and the Issuer, the Bond Registrar or Owners are unable to locate a qualified successor of the Securities Depository in accordance with the following paragraph, then the Bond Registrar shall authenticate and cause delivery of Replacement Bonds to Owners, as provided herein. The Bond Registrar may rely on information from the Securities Depository and its Participants as to the names of the Beneficial Owners of the Bonds. The cost of printing, registration, authentication, and delivery of Replacement Bonds shall be paid for by the Issuer.

In the event the Securities Depository resigns, is unable to properly discharge its responsibilities, or is no longer qualified to act as a securities depository and registered clearing agency under the Securities and Exchange Act of 1934, as amended, the Issuer may appoint a successor Securities Depository provided the Bond Registrar receives written evidence satisfactory to the Bond Registrar with respect to the ability of the successor Securities Depository to discharge its responsibilities. Any such successor Securities Depository shall be a securities depository which is a registered clearing agency under the Securities and Exchange Act of 1934, as amended, or other applicable statute or regulation that operates a securities depository upon reasonable and customary terms. The Bond Registrar upon its receipt of a Bond or Bonds for cancellation shall cause the delivery of Bonds to the successor Securities Depository in an Authorized Denominations and form as provided herein.

**Section 211. Nonpresentment of Bonds.** If any Bond is not presented for payment when the principal thereof becomes due at Maturity, if funds sufficient to pay such Bond have been made available to the Paying Agent all liability of the Issuer to the Owner thereof for the payment of such Bond shall forthwith cease, determine and be completely discharged, and thereupon it shall be the duty of the Paying Agent to hold such funds, without liability for interest thereon, for the benefit of the Owner of such Bond, who shall thereafter be restricted exclusively to such funds for any claim of whatever nature on his part under this Bond Resolution or on, or with respect to, said Bond. If any Bond is not presented for payment within four (4) years following the date when such Bond becomes due at Maturity, the Paying Agent shall repay, without liability for interest thereon, to the Issuer the funds theretofore held by it for payment of such Bond, and such Bond shall, subject to the defense of any applicable statute of limitation, thereafter be an unsecured obligation of the Issuer, and the Owner thereof shall be entitled to look only to the Issuer for payment, and then only to the extent of the amount so repaid to it by the Paying Agent, and the Issuer shall not be liable for any interest thereon and shall not be regarded as a trustee of such money.

**Section 212. Preliminary and Final Official Statement.** The Preliminary Official Statement dated October 13, 2021, is hereby ratified and approved.

The Official Statement is hereby authorized to be prepared by supplementing, amending and completing the Preliminary Official Statement, with such changes and additions thereto as are necessary to

conform to and describe the transaction. The Mayor and chief financial officer of the Issuer are hereby authorized to execute the Official Statement as so supplemented, amended and completed, and the use and public distribution of the Official Statement by the Purchaser in connection with the reoffering of the Bonds is hereby authorized. The proper officials of the Issuer are hereby authorized to execute and deliver a certificate pertaining to such Official Statement as prescribed therein, dated as of the Issue Date.

The Issuer agrees to provide to the Purchaser within seven business days of the date of the sale of Bonds sufficient copies of the Official Statement to enable the Purchaser to comply with the requirements of the SEC Rule and Rule G-32 of the Municipal Securities Rulemaking Board.

**Section 213. Sale of the Bonds.** The sale of the Bonds to the Purchaser is hereby ratified and confirmed. The Mayor and Clerk are hereby authorized to execute the official bid form submitted by the Purchaser. Delivery of the Bonds shall be made to the Purchaser on the Issue Date (which shall be as soon as practicable after the adoption of this Bond Resolution), upon payment of the Purchase Price.

### ARTICLE III

#### REDEMPTION OF BONDS

**Section 301. Redemption by Issuer.**

**Optional Redemption.** At the option of the Issuer, Bonds maturing on September 1 in the years 2030 and thereafter, will be subject to redemption and payment prior to their Stated Maturity on September 1, 2029, and thereafter, as a whole or in part (selection of maturities and the amount of Bonds of each maturity to be redeemed to be determined by the Issuer in such equitable manner as it may determine) at any time, at the Redemption Price of 100% (expressed as a percentage of the principal amount), plus accrued interest to the Redemption Date.

~~[ **Mandatory Redemption.** (a) 20 Term Bonds. The 20 Term Bonds shall be subject to mandatory redemption and payment prior to Stated Maturity pursuant to the mandatory redemption requirements of this Section at a Redemption Price equal to 100% of the principal amount thereof plus accrued interest to the Redemption Date. The taxes levied in *Article IV* hereof which are to be deposited into the Debt Service Account shall be sufficient to redeem, and the Issuer shall redeem on September 1 in each year, the following principal amounts of such 20 Term Bonds:~~

| <u>Principal<br/>Amount</u> | <u>Year</u> |
|-----------------------------|-------------|
| \$ _____                    | _____ 20__  |
| _____                       | _____ 20__* |

\_\_\_\_\_  
 \_\_\_\_\_\*Final Maturity

~~\_\_\_\_\_ (b) 20 Term Bonds. The 20 Term Bonds shall be subject to mandatory redemption and payment prior to Stated Maturity pursuant to the mandatory redemption requirements of this Section at a Redemption Price equal to 100% of the principal amount thereof plus accrued interest to the Redemption Date. The taxes levied in *Article IV* hereof which are to be deposited into the Debt Service Account shall be sufficient to redeem, and the Issuer shall redeem on September 1 in each year, the following principal amounts of such 20 Term Bonds:~~

| <u>Principal<br/>Amount</u> | <u>Year</u> |
|-----------------------------|-------------|
| \$ _____                    | _____ 20__  |
| _____                       | _____ 20__* |
| _____                       |             |
| _____ *Final Maturity]      |             |

~~\_\_\_\_\_ At its option, to be exercised on or before the 45th day next preceding any mandatory Redemption Date, the Issuer may: (1) deliver to the Paying Agent for cancellation Term Bonds subject to mandatory redemption on said mandatory Redemption Date, in any aggregate principal amount desired; or (2) furnish the Paying Agent funds, together with appropriate instructions, for the purpose of purchasing any Term Bonds subject to mandatory redemption on said mandatory Redemption Date from any Owner thereof whereupon the Paying Agent shall expend such funds for such purpose to such extent as may be practical; or (3) receive a credit with respect to the mandatory redemption obligation of the Issuer under this Section for any Term Bonds subject to mandatory redemption on said mandatory Redemption Date which, prior to such date, have been redeemed (other than through the operation of the mandatory redemption requirements of this subsection) and cancelled by the Paying Agent and not theretofore applied as a credit against any redemption obligation under this subsection. Each Term Bond so delivered or previously purchased or redeemed shall be credited at 100% of the principal amount thereof on the obligation of the Issuer to redeem Term Bonds of the same Stated Maturity on such mandatory Redemption Date, and any excess of such amount shall be credited on future mandatory redemption obligations for Term Bonds of the same Stated Maturity as designated by the Issuer, and the principal amount of Term Bonds to be redeemed by operation of the requirements of this Section shall be accordingly reduced. If the Issuer intends to exercise any option granted by the provisions of clauses (1), (2) or (3) above, the Issuer will, on or before the 45th day next preceding each mandatory Redemption Date, furnish the Paying Agent a written certificate indicating to what extent the provisions of said clauses (1), (2) and (3) are to be complied with, with respect to such mandatory redemption payment.]~~

**Section 302. Selection of Bonds to be Redeemed.** Bonds shall be redeemed only in an Authorized Denomination. When less than all of the Bonds are to be redeemed and paid prior to their Stated Maturity, such Bonds shall be redeemed in such manner as the Issuer shall determine. Bonds of less than a full Stated Maturity shall be selected by the Bond Registrar in a minimum Authorized Denomination of principal amount in such equitable manner as the Bond Registrar may determine.

In the case of a partial redemption of Bonds by lot when Bonds of denominations greater than a minimum Authorized Denomination are then Outstanding, then for all purposes in connection with such redemption a minimum Authorized Denomination of face value shall be treated as though it were a separate Bond of the denomination of a minimum Authorized Denomination. If it is determined that one or more, but not all, of a minimum Authorized Denomination of face value represented by any Bond is selected for redemption, then upon notice of intention to redeem a minimum Authorized Denomination, the Owner or the Owner's duly authorized agent shall forthwith present and surrender such Bond to the Bond Registrar: (1) for payment of the Redemption Price and interest to the Redemption Date of a minimum Authorized Denomination of face value called for redemption, and (2) for exchange, without charge to the Owner thereof, for a new Bond or Bonds of the aggregate principal amount of the unredeemed portion of the principal amount of such Bond. If the Owner of any such Bond fails to present such Bond to the Paying Agent for payment and exchange as aforesaid, such Bond shall, nevertheless, become due and payable on the redemption date to the extent of a minimum Authorized Denomination of face value called for redemption (and to that extent only).

**Section 303. Notice and Effect of Call for Redemption.** In the event the Issuer desires to call the Bonds for redemption prior to maturity, written notice of such intent shall be provided to the Bond Registrar in accordance with K.S.A. 10-129, as amended, not less than 45 days prior to the Redemption Date. The Bond Registrar shall call Bonds for redemption and payment and shall give notice of such redemption as herein provided upon receipt by the Bond Registrar at least 45 days prior to the Redemption Date of written instructions of the Issuer specifying the principal amount, Stated Maturities, Redemption Date and Redemption Prices of the Bonds to be called for redemption. ~~{The foregoing provisions of this paragraph shall not apply in the case of any mandatory redemption of Term Bonds hereunder, and Term Bonds shall be called by the Paying Agent for redemption pursuant to such mandatory redemption requirements without the necessity of any action by the Issuer and whether or not the Paying Agent holds moneys available and sufficient to effect the required redemption.}~~

Unless waived by any Owner of Bonds to be redeemed, if the Issuer shall call any Bonds for redemption and payment prior to the Stated Maturity thereof, the Issuer shall give written notice of its intention to call and pay said Bonds to the Bond Registrar and the State Treasurer. In addition, the Issuer shall cause the Bond Registrar to give written notice of redemption to the Owners of said Bonds. Each of said written notices shall be deposited in the United States first class mail not less than 30 days prior to the Redemption Date.

All official notices of redemption shall be dated and shall contain the following information:

- (a) the Redemption Date;
- (b) the Redemption Price;
- (c) if less than all Outstanding Bonds are to be redeemed, the identification (and, in the case of partial redemption of any Bonds, the respective principal amounts) of the Bonds to be redeemed;
- (d) a statement that on the Redemption Date the Redemption Price will become due and payable upon each such Bond or portion thereof called for redemption and that interest thereon shall cease to accrue from and after the Redemption Date; and
- (e) the place where such Bonds are to be surrendered for payment of the Redemption Price, which shall be the principal office of the Paying Agent.

The failure of any Owner to receive notice given as heretofore provided or an immaterial defect therein shall not invalidate any redemption.

Prior to any Redemption Date, the Issuer shall deposit with the Paying Agent an amount of money sufficient to pay the Redemption Price of all the Bonds or portions of Bonds that are to be redeemed on such Redemption Date.

For so long as the Securities Depository is effecting book-entry transfers of the Bonds, the Bond Registrar shall provide the notices specified in this Section to the Securities Depository. It is expected that the Securities Depository shall, in turn, notify its Participants and that the Participants, in turn, will notify or cause to be notified the Beneficial Owners. Any failure on the part of the Securities Depository or a Participant, or failure on the part of a nominee of a Beneficial Owner of a Bond (having been mailed notice from the Bond Registrar, the Securities Depository, a Participant or otherwise) to notify the Beneficial Owner of the Bond so affected, shall not affect the validity of the redemption of such Bond.

Official notice of redemption having been given as aforesaid, the Bonds or portions of Bonds to be redeemed shall become due and payable on the Redemption Date, at the Redemption Price therein specified, and from and after the Redemption Date (unless the Issuer defaults in the payment of the Redemption Price) such Bonds or portion of Bonds shall cease to bear interest. Upon surrender of such Bonds for redemption in accordance with such notice, the Redemption Price of such Bonds shall be paid by the Paying Agent. Installments of interest due on or prior to the Redemption Date shall be payable as herein provided for payment of interest. Upon surrender for any partial redemption of any Bond, there shall be prepared for the Owner a new Bond or Bonds of the same Stated Maturity in the amount of the unpaid principal as provided herein. All Bonds that have been surrendered for redemption shall be cancelled and destroyed by the Paying Agent as provided herein and shall not be reissued.

In addition to the foregoing notice, the Issuer shall provide such notices of redemption as are required by the Disclosure Undertaking. Further notice may be given by the Issuer or the Bond Registrar on behalf of the Issuer as set out below, but no defect in said further notice nor any failure to give all or any portion of such further notice shall in any manner defeat the effectiveness of a call for redemption if official notice thereof is given as above prescribed:

(a) Each further notice of redemption given hereunder shall contain the information required above for an official notice of redemption plus (1) the CUSIP numbers of all Bonds being redeemed; (2) the date of issue of the Bonds as originally issued; (3) the rate of interest borne by each Bond being redeemed; (4) the maturity date of each Bond being redeemed; and (5) any other descriptive information needed to identify accurately the Bonds being redeemed.

(b) Each further notice of redemption shall be sent at least one day before the mailing of notice to Owners by first class, registered or certified mail or overnight delivery, as determined by the Bond Registrar, to all registered securities depositories then in the business of holding substantial amounts of obligations of types comprising the Bonds and to one or more national information services that disseminate notices of redemption of obligations such as the Bonds.

(c) Each check or other transfer of funds issued for the payment of the Redemption Price of Bonds being redeemed shall bear or have enclosed the CUSIP number of the Bonds being redeemed with the proceeds of such check or other transfer.

The Paying Agent is also directed to comply with any mandatory standards then in effect for processing redemptions of municipal securities established by the State or the Securities and Exchange Commission. Failure to comply with such standards shall not affect or invalidate the redemption of any Bond.

## ARTICLE IV

### SECURITY FOR BONDS

**Section 401. Security for the Bonds.** The Bonds shall be general obligations of the Issuer payable as to both principal and interest from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property, real and personal, within the territorial limits of the Issuer. The full faith, credit and resources of the Issuer are hereby irrevocably pledged for the prompt payment of the principal of and interest on the Bonds as the same become due.

**Section 402. Levy and Collection of Annual Tax; Transfer to Debt Service Account.** The Governing Body shall annually make provision for the payment of principal of, premium, if any, and interest on the Bonds as the same become due by, to the extent necessary, levying and collecting the necessary taxes upon all of the taxable tangible property within the Issuer in the manner provided by law.

The taxes referred to above shall be extended upon the tax rolls in each of the several years, respectively, and shall be levied and collected at the same time and in the same manner as the other ad valorem taxes of the Issuer are levied and collected. The proceeds derived from said taxes shall be deposited in the Bond and Interest Fund, shall be kept separate and apart from all other funds of the Issuer shall thereafter be transferred to the Debt Service Account and shall be used solely for the payment of the principal of and interest on the Bonds as and when the same become due, taking into account any scheduled mandatory redemptions, and the fees and expenses of the Paying Agent.

If at any time said taxes are not collected in time to pay the principal of or interest on the Bonds when due, the Treasurer is hereby authorized and directed to pay said principal or interest out of the general funds of the Issuer and to reimburse said general funds for money so expended when said taxes are collected.

## ARTICLE V

### ESTABLISHMENT OF FUNDS AND ACCOUNTS DEPOSIT AND APPLICATION OF BOND PROCEEDS

**Section 501. Creation of Funds and Accounts.** Simultaneously with the issuance of the Bonds, there shall be created within the Treasury of the Issuer the following Funds and Accounts:

- (a) Improvement Fund for General Obligation Bonds, Series 2021A.
- (b) Debt Service Account for General Obligation Bonds, Series 2021A (within the Bond and Interest Fund).
- (c) Rebate Fund for General Obligation Bonds, Series 2021A.

The Funds and Accounts established herein shall be administered in accordance with the provisions of this Bond Resolution so long as the Bonds are Outstanding.

**Section 502. Deposit of Bond Proceeds.** The net proceeds received from the sale of the Bonds shall be deposited simultaneously with the delivery of the Bonds as follows:

- (a) All accrued interest, if any, received from the sale of the Bonds shall be deposited in the Debt Service Account.
- (b) The remaining balance of the proceeds derived from the sale of the Bonds shall be deposited in the Improvement Fund.

**Section 503. Application of Moneys in the Improvement Fund.** Moneys in the Improvement Fund shall be used for the sole purpose of: (a) paying the costs of the Improvements, in accordance with the plans and specifications therefor approved by the Governing Body and on file in the office

of the Clerk, including any alterations in or amendments to said plans and specifications deemed advisable and approved by the Governing Body; (b) paying interest on the Bonds during construction of the Improvements; (c) paying Costs of Issuance; and (d) transferring any amounts to the Rebate Fund required by this *Article V*. Upon completion of the Improvements, any surplus remaining in the Improvement Fund shall be deposited in the Debt Service Account.

**Section 504. Substitution of Improvements; Reallocation of Proceeds.**

(a) The Issuer may elect for any reason to substitute or add other public improvements to be financed with proceeds of the Bonds provided the following conditions are met: (1) the Substitute Improvement and the issuance of general obligation bonds to pay the cost of the Substitute Improvement has been duly authorized by the Governing Body in accordance with the laws of the State; (2) a resolution or ordinance authorizing the use of the proceeds of the Bonds to pay the Financeable Costs of the Substitute Improvement has been duly adopted by the Governing Body pursuant to this Section, (3) the Attorney General of the State has approved the amendment made by such resolution or ordinance to the transcript of proceedings for the Bonds to include the Substitute Improvements; and (4) the use of the proceeds of the Bonds to pay the Financeable Cost of the Substitute Improvement will not adversely affect the tax-exempt status of the Bonds under State or federal law.

(b) The Issuer may reallocate expenditure of Bond proceeds among all Improvements financed by the Bonds; provided the following conditions are met: (1) the reallocation is approved by the Governing Body; (2) the reallocation shall not cause the proceeds of the Bonds allocated to any Improvement to exceed the Financeable Costs of the Improvement; and (3) the reallocation will not adversely affect the tax-exempt status of the Bonds under State or federal law.

**Section 505. Application of Moneys in Debt Service Account.** All amounts paid and credited to the Debt Service Account shall be expended and used by the Issuer for the sole purpose of paying the principal or Redemption Price of and interest on the Bonds as and when the same become due and the usual and customary fees and expenses of the Bond Registrar and Paying Agent. The Treasurer is authorized and directed to withdraw from the Debt Service Account sums sufficient to pay both principal or Redemption Price of and interest on the Bonds and the fees and expenses of the Bond Registrar and Paying Agent as and when the same become due, and to forward such sums to the Paying Agent in a manner which ensures that the Paying Agent will receive immediately available funds in such amounts on or before the Business Day immediately preceding the dates when such principal, interest and fees of the Bond Registrar and Paying Agent will become due. If, through the lapse of time or otherwise, the Owners of Bonds are no longer entitled to enforce payment of the Bonds or the interest thereon, the Paying Agent shall return said funds to the Issuer. All moneys deposited with the Paying Agent shall be deemed to be deposited in accordance with and subject to all of the provisions contained in this Bond Resolution and shall be held in trust by the Paying Agent for the benefit of the Owners of the Bonds entitled to payment from such moneys.

Any moneys or investments remaining in the Debt Service Account after the retirement of the Bonds shall be transferred and paid into the Bond and Interest Fund.

**Section 506. Application of Moneys in the Rebate Fund.**

(a) There shall be deposited in the Rebate Fund such amounts as are required to be deposited therein pursuant to the Federal Tax Certificate. All money at any time deposited in the Rebate Fund shall be held in trust, to the extent required to satisfy the Rebate Amount (as defined in the Federal Tax Certificate), for payment to the United States of America, and neither the Issuer nor the Owner of any Bonds

shall have any rights in or claim to such money. All amounts deposited into or on deposit in the Rebate Fund shall be governed by this Section and the Federal Tax Certificate.

(b) The Issuer shall periodically determine the arbitrage rebate, if any, under Code § 148(f) in accordance with the Federal Tax Certificate, and the Issuer shall make payments to the United States of America at the times and in the amounts determined under the Federal Tax Certificate. Any moneys remaining in the Rebate Fund after redemption and payment of all of the Bonds and payment and satisfaction of any Rebate Amount, or provision made therefor, shall be deposited into the Bond and Interest Fund.

(c) Notwithstanding any other provision of this Bond Resolution, including in particular *Article VII* hereof, the obligation to pay arbitrage rebate to the United States of America and to comply with all other requirements of this Section and the Federal Tax Certificate shall survive the defeasance or payment in full of the Bonds.

**Section 507. Deposits and Investment of Moneys.** Moneys in each of the Funds and Accounts shall be deposited in accordance with laws of the State, in a bank, savings and loan association or savings bank organized under the laws of the State, any other state or the United States: (a) which has a main or branch office located in the Issuer; or (b) if no such entity has a main or branch office located in the Issuer, with such an entity that has a main or branch office located in the county or counties in which the Issuer is located. All such depositories shall be members of the Federal Deposit Insurance Corporation, or otherwise as permitted by State law. All such deposits shall be invested in Permitted Investments as set forth in this Article or shall be adequately secured as provided by the laws of the State. All moneys held in the Funds and Accounts shall be kept separate and apart from all other funds of the Issuer so that there shall be no commingling with any other funds of the Issuer.

Moneys held in any Fund or Account may be invested in accordance with this Bond Resolution and the Federal Tax Certificate in Permitted Investments; provided, however, that no such investment shall be made for a period extending longer than to the date when the moneys invested may be needed for the purpose for which such fund was created. All earnings on any investments held in any Fund or Account shall accrue to and become a part of such Fund or Account; provided that, during the period of construction of the Improvements, earnings on the investment of such funds may, at the discretion of the Issuer, be credited to the Debt Service Account.

## ARTICLE VI

### DEFAULT AND REMEDIES

**Section 601. Remedies.** The provisions of the Bond Resolution, including the covenants and agreements herein contained, shall constitute a contract between the Issuer and the Owners of the Bonds. If an Event of Default occurs and shall be continuing, the Owner or Owners of not less than 10% in principal amount of the Bonds at the time Outstanding shall have the right for the equal benefit and protection of all Owners of Bonds similarly situated:

(a) by mandamus or other suit, action or proceedings at law or in equity to enforce the rights of such Owner or Owners against the Issuer and its officers, agents and employees, and to require and compel duties and obligations required by the provisions of the Bond Resolution or by the Constitution and laws of the State;

(b) by suit, action or other proceedings in equity or at law to require the Issuer, its officers, agents and employees to account as if they were the trustees of an express trust; and

(c) by suit, action or other proceedings in equity or at law to enjoin any acts or things which may be unlawful or in violation of the rights of the Owners of the Bonds.

**Section 602. Limitation on Rights of Owners.** The covenants and agreements of the Issuer contained herein and in the Bonds shall be for the equal benefit, protection, and security of the Owners of any or all of the Bonds, all of which Bonds shall be of equal rank and without preference or priority of one Bond over any other Bond in the application of the funds herein pledged to the payment of the principal of and the interest on the Bonds, or otherwise, except as to rate of interest, date of maturity and right of prior redemption as provided in this Bond Resolution. No one or more Owners secured hereby shall have any right in any manner whatever by his or their action to affect, disturb or prejudice the security granted and provided for herein, or to enforce any right hereunder, except in the manner herein provided, and all proceedings at law or in equity shall be instituted, had and maintained for the equal benefit of all Outstanding Bonds.

**Section 603. Remedies Cumulative.** No remedy conferred herein upon the Owners is intended to be exclusive of any other remedy, but each such remedy shall be cumulative and in addition to every other remedy and may be exercised without exhausting and without regard to any other remedy conferred herein. No waiver of any default or breach of duty or contract by the Owner of any Bond shall extend to or affect any subsequent default or breach of duty or contract or shall impair any rights or remedies thereon. No delay or omission of any Owner to exercise any right or power accruing upon any default shall impair any such right or power or shall be construed to be a waiver of any such default or acquiescence therein. Every substantive right and every remedy conferred upon the Owners of the Bonds by this Bond Resolution may be enforced and exercised from time to time and as often as may be deemed expedient. If action or proceedings taken by any Owner on account of any default or to enforce any right or exercise any remedy has been discontinued or abandoned for any reason, or shall have been determined adversely to such Owner, then, and in every such case, the Issuer and the Owners of the Bonds shall, subject to any determination in such action or proceeding or applicable law of the State, be restored to their former positions and rights hereunder, respectively, and all rights, remedies, powers and duties of the Owners shall continue as if no such suit, action or other proceedings had been brought or taken.

## ARTICLE VII

### DEFEASANCE

**Section 701. Defeasance.** When any or all of the Bonds, redemption premium, if any, or scheduled interest payments thereon have been paid and discharged, then the requirements contained in this Bond Resolution and the pledge of the Issuer's faith and credit hereunder and all other rights granted hereby shall terminate with respect to the Bonds or scheduled interest payments thereon so paid and discharged. Bonds, redemption premium, if any, or scheduled interest payments thereon shall be deemed to have been paid and discharged within the meaning of this Bond Resolution if there has been deposited with the Paying Agent, or other commercial bank or trust company located in the State and having full trust powers, at or prior to the Stated Maturity or Redemption Date of said Bonds or the interest payments thereon, in trust for and irrevocably appropriated thereto, moneys and/or Defeasance Obligations which, together with the interest to be

earned on any such Defeasance Obligations, will be sufficient for the payment of the principal of or Redemption Price of said Bonds and/or interest accrued to the Stated Maturity or Redemption Date, or if default in such payment has occurred on such date, then to the date of the tender of such payments. If the amount to be so deposited is based on the Redemption Price of any Bonds, no such satisfaction shall occur until (a) the Issuer has elected to redeem such Bonds, and (b) either notice of such redemption has been given, or the Issuer has given irrevocable instructions, or shall have provided for an escrow agent to give irrevocable instructions, to the Bond Registrar to give such notice of redemption in compliance with *Article III* hereof. Any money and Defeasance Obligations that at any time shall be deposited with the Paying Agent or other commercial bank or trust company by or on behalf of the Issuer, for the purpose of paying and discharging any of the Bonds, shall be and are hereby assigned, transferred and set over to the Paying Agent or other bank or trust company in trust for the respective Owners of the Bonds, and such moneys shall be and are hereby irrevocably appropriated to the payment and discharge thereof. All money and Defeasance Obligations deposited with the Paying Agent or such bank or trust company shall be deemed to be deposited in accordance with and subject to all of the provisions of this Bond Resolution.

## ARTICLE VIII

### TAX COVENANTS

**Section 801. General Covenants.** The Issuer covenants and agrees that it will comply with: (a) all applicable provisions of the Code necessary to maintain the exclusion from gross income for federal income tax purposes of the interest on the Bonds; and (b) all provisions and requirements of the Federal Tax Certificate. The Mayor and Clerk are hereby authorized and directed to execute the Federal Tax Certificate in a form approved by Bond Counsel, for and on behalf of and as the act and deed of the Issuer. The Issuer will, in addition, adopt such other ordinances or resolutions and take such other actions as may be necessary to comply with the Code and with all other applicable future laws, regulations, published rulings and judicial decisions, in order to ensure that the interest on the Bonds will remain excluded from federal gross income, to the extent any such actions can be taken by the Issuer.

**Section 802. Survival of Covenants.** The covenants contained in this Article and in the Federal Tax Certificate shall remain in full force and effect notwithstanding the defeasance of the Bonds pursuant to *Article VII* hereof or any other provision of this Bond Resolution until such time as is set forth in the Federal Tax Certificate.

## ARTICLE IX

### CONTINUING DISCLOSURE REQUIREMENTS

**Section 901. Disclosure Requirements.** The Mayor and Clerk are hereby authorized and directed to execute the Disclosure Undertaking in a form approved by Bond Counsel, for and on behalf of and as the act and deed of the Issuer. The Issuer hereby covenants with the Purchaser and the Beneficial Owners to provide and disseminate such information as is required by the SEC Rule and as further set forth in the Disclosure Undertaking, the provisions of which are incorporated herein by reference. Such covenant shall be for the benefit of and enforceable by the Purchaser and the Beneficial Owners.

**Section 901. Failure to Comply with Continuing Disclosure Requirements.** In the event the Issuer fails to comply in a timely manner with its covenants contained in the preceding section, the Purchaser and/or any Beneficial Owner may make demand for such compliance by written notice to the Issuer. In the event the Issuer does not remedy such noncompliance within 10 days of receipt of such written notice, the Purchaser or any Beneficial Owner may in its discretion, without notice or demand, proceed to enforce compliance by a suit or suits in equity for the specific performance of such covenant or agreement contained in the preceding section or for the enforcement of any other appropriate legal or equitable remedy, as the Purchaser and/or any Beneficial Owner shall deem effectual to protect and enforce any of the duties of the Issuer under such preceding section. Notwithstanding any other provision of this Bond Resolution, failure of the Issuer to comply with its covenants contained in the preceding section shall not be considered an Event of Default under this Bond Resolution.

## ARTICLE X

### MISCELLANEOUS PROVISIONS

**Section 1001. Annual Audit.** Annually, promptly after the end of the Fiscal Year, the Issuer will cause an audit to be made of the financial statements of the Issuer for the preceding Fiscal Year by an Independent Accountant. Within 30 days after the completion of each such audit, a copy thereof shall be filed in the office of the Clerk. Such audit shall at all times during the usual business hours be open to the examination and inspection by any taxpayer, any Owner of any of the Bonds, or by anyone acting for or on behalf of such taxpayer or Owner. Upon payment of the reasonable cost of preparing and mailing the same, a copy of any annual audit will, upon request, be sent to any Owner or prospective Owner. As soon as possible after the completion of the annual audit, the Governing Body shall review such audit, and if the audit discloses that proper provision has not been made for all of the requirements of this Bond Resolution, the Issuer shall promptly cure such deficiency.

**Section 1002. Amendments.** The rights and duties of the Issuer and the Owners, and the terms and provisions of the Bonds or of this Bond Resolution, may be amended or modified at any time in any respect by ordinance or resolution of the Issuer with the written consent of the Owners of not less than a majority in principal amount of the Bonds then Outstanding, such consent to be evidenced by an instrument or instruments executed by such Owners and duly acknowledged or proved in the manner of a deed to be recorded, and such instrument or instruments shall be filed with the Clerk, but no such modification or alteration shall:

- (a) extend the maturity of any payment of principal or interest due upon any Bond;
- (b) effect a reduction in the amount which the Issuer is required to pay as principal of or interest on any Bond;
- (c) permit preference or priority of any Bond over any other Bond; or
- (d) reduce the percentage in principal amount of Bonds required for the written consent to any modification or alteration of the provisions of this Bond Resolution.

Any provision of the Bonds or of this Bond Resolution may, however, be amended or modified by ordinance or resolution duly adopted by the Governing Body at any time in any legal respect with the written consent of the Owners of all of the Bonds at the time Outstanding.

Without notice to or the consent of any Owners, the Issuer may amend or supplement this Bond Resolution for the purpose of curing any formal defect, omission, inconsistency or ambiguity herein, to grant to or confer upon the Owners any additional rights, remedies, powers or authority that may lawfully be granted to or conferred upon the Owners, to more precisely identify the Improvements, to reallocate proceeds of the Bonds among Improvements, to provide for Substitute Improvements, to conform this Bond Resolution to the Code or future applicable federal law concerning tax-exempt obligations, or in connection with any other change therein which is not materially adverse to the interests of the Owners.

Every amendment or modification of the provisions of the Bonds or of this Bond Resolution, to which the written consent of the Owners is given, as above provided, shall be expressed in a resolution or ordinance adopted by the Governing Body amending or supplementing the provisions of this Bond Resolution and shall be deemed to be a part of this Bond Resolution. A certified copy of every such amendatory or supplemental ordinance or resolution, if any, and a certified copy of this Bond Resolution shall always be kept on file in the office of the Clerk, and shall be made available for inspection by the Owner of any Bond or a prospective purchaser or owner of any Bond authorized by this Bond Resolution, and upon payment of the reasonable cost of preparing the same, a certified copy of any such amendatory or supplemental ordinance or resolution or of this Bond Resolution will be sent by the Clerk to any such Owner or prospective Owner.

Any and all modifications made in the manner hereinabove provided shall not become effective until there has been filed with the Clerk a copy of the ordinance or resolution of the Issuer hereinabove provided for, duly certified, as well as proof of any required consent to such modification by the Owners of the Bonds then Outstanding. It shall not be necessary to note on any of the Outstanding Bonds any reference to such amendment or modification.

The Issuer shall furnish to the Paying Agent a copy of any amendment to the Bonds or this Bond Resolution which affects the duties or obligations of the Paying Agent under this Bond Resolution.

**Section 1003. Notices, Consents and Other Instruments by Owners.** Any notice, consent, request, direction, approval or other instrument to be signed and executed by the Owners may be in any number of concurrent writings of similar tenor and may be signed or executed by such Owners in person or by agent appointed in writing. Proof of the execution of any such instrument or of the writing appointing any such agent and of the ownership of Bonds, if made in the following manner, shall be sufficient for any of the purposes of this Bond Resolution, and shall be conclusive in favor of the Issuer and the Paying Agent with regard to any action taken, suffered or omitted under any such instrument, namely:

(a) The fact and date of the execution by any person of any such instrument may be proved by a certificate of any officer in any jurisdiction who by law has power to take acknowledgments within such jurisdiction that the person signing such instrument acknowledged before such officer the execution thereof, or by affidavit of any witness to such execution.

(b) The fact of ownership of Bonds, the amount or amounts, numbers and other identification of Bonds, and the date of holding the same shall be proved by the Bond Register.

In determining whether the Owners of the requisite principal amount of Bonds Outstanding have given any request, demand, authorization, direction, notice, consent or waiver under this Bond Resolution, Bonds owned by the Issuer shall be disregarded and deemed not to be Outstanding under this Bond Resolution, except that, in determining whether the Owners shall be protected in relying upon any such request, demand, authorization, direction, notice, consent or waiver, only Bonds which the Owners know

to be so owned shall be so disregarded. Notwithstanding the foregoing, Bonds so owned which have been pledged in good faith shall not be disregarded as aforesaid if the pledgee establishes to the satisfaction of the Owners the pledgee's right so to act with respect to such Bonds and that the pledgee is not the Issuer.

**Section 1004. Notices.** Any notice, request, complaint, demand or other communication required or desired to be given or filed under this Bond Resolution shall be in writing, given to the Notice Representative at the Notice Address and shall be deemed duly given or filed if the same shall be: (a) duly mailed by registered or certified mail, postage prepaid; or (b) communicated via fax, with electronic or telephonic confirmation of receipt. Copies of such notices shall also be given to the Paying Agent. The Issuer, the Paying Agent and the Purchaser may from time to time designate, by notice given hereunder to the others of such parties, such other address to which subsequent notices, certificates or other communications shall be sent.

All notices given by: (a) certified or registered mail as aforesaid shall be deemed duly given as of the date they are so mailed; (b) fax as aforesaid shall be deemed duly given as of the date of confirmation of receipt. If, because of the temporary or permanent suspension of regular mail service or for any other reason, it is impossible or impractical to mail any notice in the manner herein provided, then such other form of notice as shall be made with the approval of the Paying Agent shall constitute a sufficient notice.

**Section 1005. Electronic Transactions.** The transactions described in this Bond Resolution may be conducted, and documents related to the Bonds may be sent, received, executed, and stored, by electronic means or transmissions. Copies, teletypes, electronic files and other reproductions of original executed documents (or documents executed by electronic means or transmissions) shall be deemed to be authentic and valid counterparts of such documents for all purposes, including the filing of any claim, action or suit in the appropriate court of law.

**Section 1006. Further Authority.** The officers and officials of the Issuer, including the Mayor and Clerk, are hereby authorized and directed to execute all documents and take such actions as they may deem necessary or advisable in order to carry out and perform the purposes of this Bond Resolution and to make ministerial alterations, changes or additions in the foregoing agreements, statements, instruments and other documents herein approved, authorized and confirmed which they may approve, and the execution or taking of such action shall be conclusive evidence of such necessity or advisability.

**Section 1007. Severability.** If any section or other part of this Bond Resolution, whether large or small, is for any reason held invalid, the invalidity thereof shall not affect the validity of the other provisions of this Bond Resolution.

**Section 1008. Governing Law.** This Bond Resolution shall be governed exclusively by and construed in accordance with the applicable laws of the State.

**Section 1009. Effective Date.** This Bond Resolution shall take effect and be in full force from and after its adoption by the Governing Body.

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**ADOPTED** by the Governing Body on October 20, 2021.

(SEAL)

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Ronald E. Appletoft, Mayor

ATTEST:

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Audrey McClanahan, City Clerk

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**EXHIBIT A**  
**(FORM OF BONDS)**

**REGISTERED  
NUMBER** \_\_

**REGISTERED  
\$**

Unless this certificate is presented by an authorized representative of The Depository Trust Company, a New York Corporation (“DTC”), to the Issuer or its agent for registration of transfer, exchange or payment, and any certificate issued is registered in the name of Cede & Co. or in such other name as is requested by an authorized representative of DTC (and any payment is made to Cede & Co. or to such other entity as is requested by an authorized representative of DTC), ANY TRANSFER, PLEDGE OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL inasmuch as the registered owner hereof, Cede & Co., has an interest herein.

**UNITED STATES OF AMERICA  
STATE OF KANSAS  
COUNTY OF JOHNSON  
CITY OF MISSION  
GENERAL OBLIGATION BOND  
SERIES 2021A**

**Interest  
Rate:**

**Maturity  
Date:**

**Dated  
Date: November 10, 2021**

**CUSIP:**

**REGISTERED OWNER:**

**PRINCIPAL AMOUNT:**

**KNOW ALL PERSONS BY THESE PRESENTS:** That the City of Mission, in the County of Johnson, State of Kansas (the “Issuer”), for value received, hereby acknowledges itself to be indebted and promises to pay to the Registered Owner shown above, or registered assigns, but solely from the source and in the manner herein specified, the Principal Amount shown above on the Maturity Date shown above, unless called for redemption prior to the Maturity Date, and to pay interest thereon at the Interest Rate per annum shown above (computed on the basis of a 360-day year of twelve 30-day months), from the Dated Date shown above, or from the most recent date to which interest has been paid or duly provided for, payable semiannually on March 1 and September 1 of each year, commencing March 1, 2022 (the “Interest Payment Dates”), until the Principal Amount has been paid.

**Method and Place of Payment.** The principal or redemption price of this Bond shall be paid at maturity or upon earlier redemption to the person in whose name this Bond is registered at the maturity or redemption date thereof, upon presentation and surrender of this Bond at the principal office of the Treasurer of the State of Kansas, Topeka, Kansas (the “Paying Agent” and “Bond Registrar”). The interest payable on this Bond on any Interest Payment Date shall be paid to the person in whose name this Bond is registered on the registration books maintained by the Bond Registrar at the close of business on the Record Date(s)

for such interest, which shall be the 15th day (whether or not a business day) of the calendar month next preceding the Interest Payment Date. Such interest shall be payable (a) by check or draft mailed by the Paying Agent to the address of such Registered Owner shown on the Bond Register or at such other address as is furnished to the Paying Agent in writing by such Registered Owner; or (b) in the case of an interest payment to Cede & Co. or any Owner of \$500,000 or more in aggregate principal amount of Bonds by electronic transfer to such Owner upon written notice given to the Bond Registrar by such Registered Owner, not less than 15 days prior to the Record Date for such interest, containing the electronic transfer instructions including the bank, ABA routing number and account number to which such Registered Owner wishes to have such transfer directed. The principal or redemption price of and interest on the Bonds shall be payable in any coin or currency that, on the respective dates of payment thereof, is legal tender for the payment of public and private debts. Interest not punctually paid will be paid in the manner established in the within defined Bond Resolution.

**Definitions.** Capitalized terms used herein and not otherwise defined herein shall have the meanings assigned to such terms in the hereinafter defined Bond Resolution.

**Authorization of Bonds.** This Bond is one of an authorized series of Bonds of the Issuer designated “General Obligation Bonds, Series 2021A,” aggregating the principal amount of ~~[\$PRINCIPAL AMOUNT]~~\$3,205,000 (the “Bonds”) issued for the purposes set forth in the Ordinance of the Issuer authorizing the issuance of the Bonds and the Resolution of the Issuer prescribing the form and details of the Bonds (collectively, the “Bond Resolution”). The Bonds are issued by the authority of and in full compliance with the provisions, restrictions and limitations of the Constitution and laws of the State of Kansas, including K.S.A. 12-1736 *et seq.*, Charter Ordinance No. 32 of the Issuer, and Article 12, Section 5 of the Constitution of the State of Kansas, all as amended, and all other provisions of the laws of the State of Kansas applicable thereto.

**General Obligations.** The Bonds constitute general obligations of the Issuer payable as to both principal and interest from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property, real and personal, within the territorial limits of the Issuer. The full faith, credit and resources of the Issuer are hereby irrevocably pledged for the prompt payment of the principal of and interest on the Bonds as the same become due.

**Redemption Prior to Maturity.** The Bonds are subject to redemption prior to maturity, as set forth in the Bond Resolution.

**Book-Entry System.** The Bonds are being issued by means of a book-entry system with no physical distribution of bond certificates to be made except as provided in the Bond Resolution. One Bond certificate with respect to each date on which the Bonds are stated to mature or with respect to each form of Bonds, registered in the nominee name of the Securities Depository, is being issued and required to be deposited with the Securities Depository and immobilized in its custody. The book-entry system will evidence positions held in the Bonds by the Securities Depository’s participants, beneficial ownership of the Bonds in authorized denominations being evidenced in the records of such participants. Transfers of ownership shall be effected on the records of the Securities Depository and its participants pursuant to rules and procedures established by the Securities Depository and its participants. The Issuer and the Bond Registrar will recognize the Securities Depository nominee, while the Registered Owner of this Bond, as the owner of this Bond for all purposes, including (i) payments of principal of, and redemption premium, if any, and interest on, this Bond, (ii) notices and (iii) voting. Transfer of principal, interest and any redemption premium payments to participants of the Securities Depository, and transfer of principal, interest and any redemption premium payments to beneficial owners of the Bonds by participants of the Securities Depository will be the responsibility of such participants and other nominees of such beneficial owners. The Issuer and the Bond Registrar will not be responsible or liable for such transfers of payments

or for maintaining, supervising or reviewing the records maintained by the Securities Depository, the Securities Depository nominee, its participants or persons acting through such participants. While the Securities Depository nominee is the owner of this Bond, notwithstanding the provision hereinabove contained, payments of principal of, redemption premium, if any, and interest on this Bond shall be made in accordance with existing arrangements among the Issuer, the Bond Registrar and the Securities Depository.

**Transfer and Exchange.** EXCEPT AS OTHERWISE PROVIDED IN THE BOND RESOLUTION, THIS GLOBAL BOND MAY BE TRANSFERRED, IN WHOLE BUT NOT IN PART, ONLY TO ANOTHER NOMINEE OF THE SECURITIES DEPOSITORY OR TO A SUCCESSOR SECURITIES DEPOSITORY OR TO A NOMINEE OF A SUCCESSOR SECURITIES DEPOSITORY. This Bond may be transferred or exchanged, as provided in the Bond Resolution, only on the Bond Register kept for that purpose at the principal office of the Bond Registrar, upon surrender of this Bond, together with a written instrument of transfer or authorization for exchange satisfactory to the Bond Registrar duly executed by the Registered Owner or the Registered Owner's duly authorized agent, and thereupon a new Bond or Bonds in any Authorized Denomination of the same maturity and in the same aggregate principal amount shall be issued to the transferee in exchange therefor as provided in the Bond Resolution and upon payment of the charges therein prescribed. The Issuer shall pay all costs incurred in connection with the issuance, payment and initial registration of the Bonds and the cost of a reasonable supply of bond blanks. The Issuer and the Paying Agent may deem and treat the person in whose name this Bond is registered on the Bond Register as the absolute owner hereof for the purpose of receiving payment of, or on account of, the principal or redemption price hereof and interest due hereon and for all other purposes. The Bonds are issued in fully registered form in Authorized Denominations.

**Authentication.** This Bond shall not be valid or become obligatory for any purpose or be entitled to any security or benefit under the Bond Resolution until the Certificate of Authentication and Registration hereon shall have been lawfully executed by the Bond Registrar.

**IT IS HEREBY DECLARED AND CERTIFIED** that all acts, conditions, and things required to be done and to exist precedent to and in the issuance of this Bond have been properly done and performed and do exist in due and regular form and manner as required by the Constitution and laws of the State of Kansas, and that the total indebtedness of the Issuer, including this series of bonds, does not exceed any constitutional or statutory limitation.





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**BOND ASSIGNMENT**

FOR VALUE RECEIVED, the undersigned do(es) hereby sell, assign and transfer to

\_\_\_\_\_  
(Name and Address)

\_\_\_\_\_  
(Social Security or Taxpayer Identification No.)

the Bond to which this assignment is affixed in the outstanding principal amount of \$\_\_\_\_\_, standing in the name of the undersigned on the books of the Bond Registrar. The undersigned do(es) hereby irrevocably constitute and appoint \_\_\_\_\_ as agent to transfer said Bond on the books of said Bond Registrar with full power of substitution in the premises.

Dated \_\_\_\_\_

\_\_\_\_\_  
Name

\_\_\_\_\_  
Social Security or  
Taxpayer Identification No.

\_\_\_\_\_  
Signature (Sign here exactly as name(s)  
appear on the face of Certificate)

Signature guarantee:

By \_\_\_\_\_

---

**LEGAL OPINION**

The following is a true and correct copy of the approving legal opinion of Gilmore & Bell, P.C., Bond Counsel, which was dated and issued as of the date of original issuance and delivery of such Bonds:

**GILMORE & BELL, P.C.**

2405 Grand Boulevard  
Suite 1100  
Kansas City, Missouri 64108

(PRINTED LEGAL OPINION)

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**G.O. BASIC DOCUMENTS**

- A. Excerpt of Minutes of Meeting approving sale, approving Ordinance/Bond Resolution
- B. Ordinance
- C. Summary Ordinance for Publication
- D. Bond Resolution

**EXCERPT OF MINUTES OF A MEETING  
OF THE CITY COUNCIL OF  
THE CITY OF MISSION, KANSAS  
HELD ON OCTOBER 20, 2021**

The City Council (the "Governing Body") met in regular session at the usual meeting place in the City, at 7:00 p.m., the following members being present and participating, to-wit:

\_\_\_\_\_.

Absent: \_\_\_\_\_.

The Mayor declared that a quorum was present and called the meeting to order.

\* \* \* \* \*

(Other Proceedings)

The City Administrator reported that pursuant to the Notice of Bond Sale duly given, bids for the purchase of General Obligation Bonds, Series 2021A, dated November 10, 2021, of the City had been received. A tabulation of said bids is set forth as **EXHIBIT A** hereto.

The Governing Body reviewed and considered the bids and it was found and determined that the bid of Country Club Bank, Leawood, Kansas, was the best bid for the Bonds, a copy of which is attached hereto as **EXHIBIT B**.

There was presented an Ordinance entitled:

**AN ORDINANCE AUTHORIZING AND PROVIDING FOR THE ISSUANCE OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS; PROVIDING FOR THE LEVY AND COLLECTION OF AN ANNUAL TAX FOR THE PURPOSE OF PAYING THE PRINCIPAL OF AND INTEREST ON SAID BONDS AS THEY BECOME DUE; AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS IN CONNECTION THEREWITH; AND MAKING CERTAIN COVENANTS WITH RESPECT THERETO.**

Councilmember \_\_\_\_\_ moved that said Ordinance be passed. The motion was seconded by Councilmember \_\_\_\_\_. Said Ordinance was duly read and considered, and upon being put, the motion for the passage of said Ordinance was carried by the vote of the Governing Body, the vote being as follows:

Yea: \_\_\_\_\_.

Nay: \_\_\_\_\_.

The Mayor declared said Ordinance duly passed and the Ordinance was then duly numbered Ordinance No. \_\_\_\_, was signed and approved by the Mayor and attested by the Clerk and the Ordinance or a summary thereof was directed to be published one time in the official newspaper of the City.

There was presented a Resolution entitled:

**A RESOLUTION PRESCRIBING THE FORM AND DETAILS OF AND AUTHORIZING AND DIRECTING THE SALE AND DELIVERY OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS, PREVIOUSLY AUTHORIZED BY ORDINANCE NO. \_\_\_\_ OF THE ISSUER; MAKING CERTAIN COVENANTS AND AGREEMENTS TO PROVIDE FOR THE PAYMENT AND SECURITY THEREOF; AND AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS CONNECTED THEREWITH.**

Councilmember \_\_\_\_\_ moved that said Resolution be adopted. The motion was seconded by Councilmember \_\_\_\_\_. Said Resolution was duly read and considered, and upon being put, the motion for the adoption of said Resolution was carried by the vote of the Governing Body, the vote being as follows:

Yea: \_\_\_\_\_.

Nay: \_\_\_\_\_.

The Mayor declared said Resolution duly adopted and the Resolution was then duly numbered Resolution No. \_\_\_\_ and was signed by the Mayor and attested by the Clerk.

\*\*\*\*\*

(Other Proceedings)

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On motion duly made, seconded and carried, the meeting thereupon adjourned.

**CERTIFICATE**

I hereby certify that the foregoing Excerpt of Minutes is a true and correct excerpt of the proceedings of the Governing Body of Mission, Kansas, held on the date stated therein, and that the official minutes of such proceedings are on file in my office.

(SEAL)

---

Audrey McClanahan, Clerk

***EXHIBIT A***

**BID TABULATION**

**[See attached]**

***EXHIBIT B***

**BID OF PURCHASER**

**[See attached]**

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**ORDINANCE NO. \_\_\_\_\_**

**OF**

**THE CITY OF MISSION, KANSAS**

**PASSED**

**OCTOBER 20, 2021**

---

**GENERAL OBLIGATION BONDS  
SERIES 2021A**

---

**ORDINANCE NO. \_\_\_\_**

**AN ORDINANCE AUTHORIZING AND PROVIDING FOR THE ISSUANCE OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS; PROVIDING FOR THE LEVY AND COLLECTION OF AN ANNUAL TAX FOR THE PURPOSE OF PAYING THE PRINCIPAL OF AND INTEREST ON SAID BONDS AS THEY BECOME DUE; AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS IN CONNECTION THEREWITH; AND MAKING CERTAIN COVENANTS WITH RESPECT THERETO.**

---

**WHEREAS**, the City of Mission, Kansas (the “City”) is a city of the second class, duly created, organized and existing under the Constitution and laws of the State; and

**WHEREAS**, by proceedings duly had, the City Council of the City (the “Governing Body”) has authorized the following improvements (collectively, the “Improvements”) to be made in the City, to-wit:

| <u>Project Description</u>   | <u>Res. No.</u> | <u>Authority</u>  | <u>Amount</u> |
|------------------------------|-----------------|---|---------------|
| Public Building Improvements | 1081            | K.S.A. 12-1736 <i>et seq.</i>   | \$3,000,000   |
| Street Light Program         | 1092            | Art. 12, Sec. 5 of the Kansas Constitution;<br>Charter Ordinance No. 32 | 422,000       |

; and

**WHEREAS**, the Governing Body is authorized by law to issue general obligation bonds of the City to pay a portion of the costs of the Improvements; and

**WHEREAS**, the Governing Body has advertised the sale of the Bonds in accordance with the law and at a meeting held in the City on this date awarded the sale of such Bonds to the best bidder.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MISSION, KANSAS, AS FOLLOWS:**

**Section 1. Definitions of Words and Terms.** In addition to words and terms defined elsewhere herein, the following words and terms in this Ordinance shall have the meanings hereinafter set forth. Unless the context shall otherwise indicate, words importing the singular number shall include the plural and vice versa, and words importing persons shall include firms, associations and corporations, including public bodies, as well as natural persons.

“**Act**” means the Constitution and statutes of the State including K.S.A. 10-101 to 10-125, inclusive, K.S.A. 10-620 *et seq.*, and K.S.A. 12-1736 *et seq.*, Charter Ordinance No. 32 of the Issuer, and Article 12, Section 5 of the Constitution of the State of Kansas, all as amended and supplemented from time to time.

“**Bond and Interest Fund**” means the Bond and Interest Fund of the City for its general obligation bonds.

“**Bond Resolution**” means the resolution to be adopted by the Governing Body prescribing the terms and details of the Bonds and making covenants with respect thereto.

“**Bonds**” means the City’s General Obligation Bonds, Series 2021A, dated November 10, 2021, authorized by this Ordinance.

“**City**” means the City of Mission, Kansas.

“**Clerk**” means the duly appointed and acting Clerk of the City or, in the Clerk’s absence, the duly appointed Deputy, Assistant or Acting Clerk.

“**Governing Body**” means the City Council of the City.

“**Mayor**” means the duly elected and acting Mayor of the City or, in the Mayor’s absence, the duly appointed and/or elected Vice Mayor or Acting Mayor of the City.

“**Ordinance**” means this Ordinance authorizing the issuance of the Bonds.

“**State**” means the State of Kansas.

“**Substitute Improvements**” means the substitute or additional improvements of the City authorized in the manner set forth in the Bond Resolution.

**Section 2. Authorization of the Bonds.** There shall be issued and hereby are authorized and directed to be issued the General Obligation Bonds, Series 2021A, of the City in the principal amount of \$3,205,000, for the purpose of providing funds to: (a) pay a portion of the costs of the Improvements and (b) pay costs of issuance of the Bonds.

**Section 3. Security for the Bonds.** The Bonds shall be general obligations of the City payable as to both principal and interest from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property, real and personal, within the territorial limits of the City. The full faith, credit and resources of the City are hereby irrevocably pledged for the prompt payment of the principal of and interest on the Bonds as the same become due.

**Section 4. Terms, Details and Conditions of the Bonds.** The Bonds shall be dated and bear interest, shall mature and be payable at such times, shall be in such forms, shall be subject to redemption and payment prior to the maturity thereof, and shall be issued and delivered in the manner prescribed and subject to the provisions, covenants and agreements set forth in the Bond Resolution hereafter adopted by the Governing Body.

**Section 5. Levy and Collection of Annual Tax.** The Governing Body shall annually make provision for the payment of principal of, premium, if any, and interest on the Bonds as the same become due by levying and collecting the necessary taxes upon all of the taxable tangible property within the City in the manner provided by law.

The taxes above referred to shall be extended upon the tax rolls in each of the several years, respectively, and shall be levied and collected at the same time and in the same manner as the general ad valorem taxes of the City are levied and collected, shall be used solely for the payment of the principal of and interest on the Bonds as and when the same become due and the fees and expenses of the paying agent for the Bonds. The proceeds derived from said taxes shall be deposited in the Bond and Interest Fund.

If at any time said taxes are not collected in time to pay the principal of or interest on the Bonds when due, the City Treasurer is hereby authorized and directed to pay said principal or interest out of the

general funds of the City and to reimburse said general funds for money so expended when said taxes are collected.

**Section 6. Further Authority.** The Mayor, Clerk and other City officials are hereby further authorized and directed to execute any and all documents and take such actions as they may deem necessary or advisable in order to carry out and perform the purposes of the Ordinance, and to make alterations, changes or additions in the foregoing agreements, statements, instruments and other documents herein approved, authorized and confirmed which they may approve, and the execution or taking of such action shall be conclusive evidence of such necessity or advisability.

**Section 7. Governing Law.** This Ordinance and the Bonds shall be governed exclusively by and construed in accordance with the applicable laws of the State.

**Section 8. Effective Date.** This Ordinance shall take effect and be in full force from and after its passage by the Governing Body, approval by the Mayor and publication of this Ordinance or a summary thereof in the official City newspaper.

[BALANCE OF THIS PAGE INTENTIONALLY LEFT BLANK]

**PASSED** by the Governing Body on October 20, 2021 and **APPROVED AND SIGNED** by the Mayor.

(SEAL)

---

Ronald E. Appletoft, Mayor

ATTEST:

---

Audrey McClanahan, City Clerk

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[SUMMARY BOND ORDINANCE FOR PUBLICATION]

(PUBLISHED IN *THE LEGAL RECORD* ON OCTOBER 26, 2021)

SUMMARY OF ORDINANCE NO. \_\_\_\_

On October 20, 2021, the governing body of the City of Mission, Kansas passed an ordinance entitled:

**AN ORDINANCE AUTHORIZING AND PROVIDING FOR THE ISSUANCE OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS; PROVIDING FOR THE LEVY AND COLLECTION OF AN ANNUAL TAX FOR THE PURPOSE OF PAYING THE PRINCIPAL OF AND INTEREST ON SAID BONDS AS THEY BECOME DUE; AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS IN CONNECTION THEREWITH; AND MAKING CERTAIN COVENANTS WITH RESPECT THERETO.**

The Series 2021A Bonds approved by the Ordinance are being issued in the principal amount stated therein to finance certain internal improvements in the City, and constitute general obligations of the City payable as to both principal and interest, to the extent necessary, from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property, real and personal, within the territorial limits of the City. A complete text of the Ordinance may be obtained or viewed free of charge at the office of the City, 6090 Woodson, Mission, Kansas. A reproduction of the Ordinance is available for not less than 7 days following the publication date of this Summary at [www.missionks.org](http://www.missionks.org).

This Summary is hereby certified to be legally accurate and sufficient pursuant to the laws of the State of Kansas.

DATED: October 20, 2021.

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City Attorney

---

**RESOLUTION NO. \_\_\_\_\_**

**OF**

**CITY OF MISSION, KANSAS**

**ADOPTED**

**OCTOBER 20, 2021**

**GENERAL OBLIGATION BONDS  
SERIES 2021A**

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RESOLUTION NO. \_\_\_\_

**A RESOLUTION PRESCRIBING THE FORM AND DETAILS OF AND AUTHORIZING AND DIRECTING THE SALE AND DELIVERY OF GENERAL OBLIGATION BONDS, SERIES 2021A, OF THE CITY OF MISSION, KANSAS, PREVIOUSLY AUTHORIZED BY ORDINANCE NO. \_\_\_\_ OF THE ISSUER; MAKING CERTAIN COVENANTS AND AGREEMENTS TO PROVIDE FOR THE PAYMENT AND SECURITY THEREOF; AND AUTHORIZING CERTAIN OTHER DOCUMENTS AND ACTIONS CONNECTED THEREWITH.**

---

**WHEREAS**, the Issuer has passed the Ordinance authorizing the issuance of the Bonds; and

**WHEREAS**, the Ordinance authorized the City Council of the Issuer (the “Governing Body”) to adopt a resolution prescribing certain details and conditions and to make certain covenants with respect to the issuance of the Bonds.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF MISSION, KANSAS, AS FOLLOWS:**

**ARTICLE I**

**DEFINITIONS**

**Section 101. Definitions of Words and Terms.** In addition to words and terms defined elsewhere herein, the following words and terms as used in this Bond Resolution shall have the meanings hereinafter set forth. Unless the context shall otherwise indicate, words importing the singular number shall include the plural and vice versa, and words importing persons shall include firms, associations and corporations, including public bodies, as well as natural persons.

“**Act**” means the Constitution and statutes of the State including K.S.A. 10-101 to 10-125, inclusive, K.S.A. 10-620 *et seq.*, K.S.A. 12-1736 *et seq.*, Charter Ordinance No. 32 of the Issuer, and Article 12, Section 5 of the Constitution of the State of Kansas, all as amended and supplemented from time to time.

“**Authorized Denomination**” means \$5,000 or any integral multiples thereof.

“**Beneficial Owner**” of the Bonds includes any Owner of the Bonds and any other Person who, directly or indirectly has the investment power with respect to such Bonds.

“**Bond and Interest Fund**” means the Bond and Interest Fund of the Issuer for its general obligation bonds.

“**Bond Counsel**” means the firm of Gilmore & Bell, P.C., or any other attorney or firm of attorneys whose expertise in matters relating to the issuance of obligations by states and their political subdivisions is nationally recognized and acceptable to the Issuer.

“**Bond Payment Date**” means any date on which principal of or interest on any Bond is payable.

**“Bond Register”** means the books for the registration, transfer and exchange of Bonds kept at the office of the Bond Registrar.

**“Bond Registrar”** means the State Treasurer, and any successors and assigns.

**“Bond Resolution”** means this resolution relating to the Bonds.

**“Bonds” or “Bond”** means the General Obligation Bonds, Series 2021A, authorized and issued by the Issuer pursuant to the Ordinance and this Bond Resolution.

**“Business Day”** means a day other than a Saturday, Sunday or any day designated as a holiday by the Congress of the United States or by the Legislature of the State and on which the Paying Agent is scheduled in the normal course of its operations to be open to the public for conduct of its operations.

**“Cede & Co.”** means Cede & Co., as nominee of DTC and any successor nominee of DTC.

**“City”** means the City of Mission, Kansas.

**“Clerk”** means the duly appointed and/or elected Clerk or, in the Clerk’s absence, the duly appointed Deputy Clerk or Acting Clerk of the Issuer.

**“Code”** means the Internal Revenue Code of 1986, as amended, and the applicable regulations promulgated thereunder by the United States Department of the Treasury.

**“Costs of Issuance”** means all costs of issuing the Bonds, including but not limited to all publication, printing, signing and mailing expenses in connection therewith, registration fees, financial advisory fees, all legal fees and expenses of Bond Counsel and other legal counsel, expenses incurred in connection with compliance with the Code, all expenses incurred in connection with receiving ratings on the Bonds, and any premiums or expenses incurred in obtaining municipal bond insurance on the Bonds.

**“Dated Date”** means November 10, 2021.

**“Debt Service Account”** means the Debt Service Account for General Obligation Bonds, Series 2021A created within the Bond and Interest Fund pursuant to **Section 501** hereof.

**“Debt Service Requirements”** means the aggregate principal payments (whether at maturity or pursuant to scheduled mandatory sinking fund redemption requirements) and interest payments on the Bonds for the period of time for which calculated; provided, however, that for purposes of calculating such amount, principal and interest shall be excluded from the determination of Debt Service Requirements to the extent that such principal or interest is payable from amounts deposited in trust, escrowed or otherwise set aside for the payment thereof with the Paying Agent or other commercial bank or trust company located in the State and having full trust powers.

**“Defaulted Interest”** means interest on any Bond which is payable but not paid on any Interest Payment Date.

**“Defeasance Obligations”** means any of the following obligations:

(a) United States Government Obligations that are not subject to redemption in advance of their maturity dates; or

(b) obligations of any state or political subdivision of any state, the interest on which is excluded from gross income for federal income tax purposes and which meet the following conditions:

(1) the obligations are (i) not subject to redemption prior to maturity or (ii) the trustee for such obligations has been given irrevocable instructions concerning their calling and redemption and the issuer of such obligations has covenanted not to redeem such obligations other than as set forth in such instructions;

(2) the obligations are secured by cash or United States Government Obligations that may be applied only to principal of, premium, if any, and interest payments on such obligations;

(3) such cash and the principal of and interest on such United States Government Obligations (plus any cash in the escrow fund) are sufficient to meet the liabilities of the obligations;

(4) such cash and United States Government Obligations serving as security for the obligations are held in an escrow fund by an escrow agent or a trustee irrevocably in trust;

(5) such cash and United States Government Obligations are not available to satisfy any other claims, including those against the trustee or escrow agent; and

(6) such obligations are rated in a rating category by Moody’s or Standard & Poor’s that is no lower than the rating category then assigned by that Rating Agency to United States Government Obligations.

**“Derivative”** means any investment instrument whose market price is derived from the fluctuating value of an underlying asset, index, currency, futures contract, including futures, options and collateralized mortgage obligations.

**“Disclosure Undertaking”** means the Continuing Disclosure Undertaking dated as of the Dated Date relating to certain obligations contained in the SEC Rule.

**“DTC”** means The Depository Trust Company, a limited-purpose trust company organized under the laws of the State of New York, and its successors and assigns, including any successor securities depository duly appointed.

**“DTC Representation Letter”** means the Blanket Letter of Representation from the Issuer and the Paying Agent to DTC which provides for a book-entry system, or any agreement between the Issuer and Paying Agent and a successor securities depository duly appointed.

**“Event of Default”** means each of the following occurrences or events:

(a) Payment of the principal and of the redemption premium, if any, of any of the Bonds shall not be made when the same shall become due and payable, either at Stated Maturity or by proceedings for redemption or otherwise;

(b) Payment of any installment of interest on any of the Bonds shall not be made when the same shall become due; or

(c) The Issuer shall default in the due and punctual performance of any other of the covenants, conditions, agreements and provisions contained in the Bonds or in this Bond Resolution (other than the covenants relating to continuing disclosure requirements contained herein and in the Disclosure Undertaking) on the part of the Issuer to be performed, and such default shall continue for thirty (30) days after written notice specifying such default and requiring same to be remedied shall have been given to the Issuer by the Owner of any of the Bonds then Outstanding.

**“Federal Tax Certificate”** means the Issuer’s Federal Tax Certificate dated as of the Issue Date, as the same may be amended or supplemented in accordance with the provisions thereof.

**“Financeable Costs”** means the amount of expenditure for an Improvement which has been duly authorized by action of the Governing Body to be financed by general obligation bonds, less: (a) the amount of any temporary notes or general obligation bonds of the Issuer which are currently Outstanding and available to pay such Financeable Costs; and (b) any amount of Financeable Costs which has been previously paid by the Issuer or by any eligible source of funds unless such amounts are entitled to be reimbursed to the Issuer under State or federal law.

**“Fiscal Year”** means the twelve month period ending on December 31.

**“Funds and Accounts”** means funds and accounts created pursuant to or referred to in *Section 501* hereof.

**“Governing Body”** means the City Council of the Issuer.

**“Improvement Fund”** means the Improvement Fund for General Obligation Bonds, Series 2021A created pursuant to *Section 501* hereof.

**“Improvements”** means the improvements referred to in the preamble to the Ordinance and any Substitute Improvements.

**“Independent Accountant”** means an independent certified public accountant or firm of independent certified public accountants at the time employed by the Issuer for the purpose of carrying out the duties imposed on the Independent Accountant by this Bond Resolution.

**“Interest Payment Date(s)”** means the Stated Maturity of an installment of interest on any Bond which shall be March 1 and September 1 of each year, commencing March 1, 2022.

**“Issue Date”** means the date when the Issuer delivers the Bonds to the Purchaser in exchange for the Purchase Price.

**“Issuer”** means the City and any successors or assigns.

**“Maturity”** when used with respect to any Bond means the date on which the principal of such Bond becomes due and payable as therein and herein provided, whether at the Stated Maturity thereof or call for redemption or otherwise.

**“Mayor”** means the duly elected and acting Mayor, or in the Mayor’s absence, the duly appointed and/or elected Vice Mayor or Acting Mayor of the Issuer.

**“Moody’s”** means Moody’s Investors Service, a corporation organized and existing under the laws of the State of Delaware, and its successors and assigns, and, if such corporation shall be dissolved or liquidated or shall no longer perform the functions of a securities rating agency, “Moody’s” shall be deemed to refer to any other nationally recognized securities rating agency designated by the Issuer.

**“Notice Address”** means with respect to the following entities:

(a) To the Issuer at:

6090 Woodson Road  
Mission, Kansas 66202  
Fax: (913)722-1415

(b) To the Paying Agent at:

State Treasurer of the State of Kansas  
Landon Office Building  
900 Southwest Jackson, Suite 201  
Topeka, Kansas 66612-1235  
Fax: (785) 296-6976

(c) To the Purchaser:

Country Club Bank  
9400 Mission Road  
Leawood, Kansas 66206

(d) To the Rating Agency:

S&P Global Ratings, a division of S&P Global Inc.  
55 Water Street, 38th Floor  
New York, New York 10004

or such other address as is furnished in writing to the other parties referenced herein.

**“Notice Representative”** means:

- (a) With respect to the Issuer, the Clerk.
- (b) With respect to the Bond Registrar and Paying Agent, the Director of Bond Services.
- (c) With respect to any Purchaser, the manager of its Municipal Bond Department.
- (d) With respect to any Rating Agency, any Vice President thereof.

**“Official Statement”** means Issuer’s Official Statement relating to the Bonds.

**“Ordinance”** means Ordinance No. [ ] of the Issuer authorizing the issuance of the Bonds, as amended from time to time.

**“Outstanding”** means, when used with reference to the Bonds, as of a particular date of determination, all Bonds theretofore authenticated and delivered, except the following Bonds:

- (a) Bonds theretofore canceled by the Paying Agent or delivered to the Paying Agent for cancellation;
- (b) Bonds deemed to be paid in accordance with the provisions of *Article VII* hereof; and
- (c) Bonds in exchange for or in lieu of which other Bonds have been authenticated and delivered hereunder.

**“Owner”** when used with respect to any Bond means the Person in whose name such Bond is registered on the Bond Register. Whenever consent of the Owners is required pursuant to the terms of this Bond Resolution, and the Owner of the Bonds, as set forth on the Bond Register, is Cede & Co., the term Owner shall be deemed to be the Beneficial Owner of the Bonds.

**“Participants”** means those financial institutions for whom the Securities Depository effects book-entry transfers and pledges of securities deposited with the Securities Depository, as such listing of Participants exists at the time of such reference.

**“Paying Agent”** means the State Treasurer, and any successors and assigns.

**“Permitted Investments”** shall mean the investments hereinafter described, provided, however, no moneys or funds shall be invested in a Derivative: (a) investments authorized by K.S.A. 12-1675 and amendments thereto; (b) the municipal investment pool established pursuant to K.S.A. 12-1677a, and amendments thereto; (c) direct obligations of the United States Government or any agency thereof; (d) the Issuer’s temporary notes issued pursuant to K.S.A. 10-123 and amendments thereto; (e) interest-bearing time deposits in commercial banks or trust companies located in the county or counties in which the Issuer is located which are insured by the Federal Deposit Insurance Corporation or collateralized by securities described in (c); (f) obligations of the federal national mortgage association, federal home loan banks, federal home loan mortgage corporation or government national mortgage association; (g) repurchase agreements for securities described in (c) or (f); (h) investment agreements or other obligations of a financial institution the obligations of which at the time of investment are rated in either of the three highest rating categories by Moody’s or Standard & Poor’s; (i) investments and shares or units of a money market fund or trust, the portfolio of which is comprised entirely of securities described in (c) or (f); (j) receipts evidencing ownership interests in securities or portions thereof described in (c) or (f); (k) municipal bonds or other obligations issued by any municipality of the State as defined in K.S.A. 10-1101 which are general obligations of the municipality issuing the same; or (l) bonds of any municipality of the State as defined in K.S.A. 10-1101 which have been refunded in advance of their maturity and are fully secured as to payment of principal and interest thereon by deposit in trust, under escrow agreement with a bank, of securities described in (c) or (f), all as may be further restricted or modified by amendments to applicable State law.

**“Person”** means any natural person, corporation, partnership, joint venture, association, firm, joint-stock company, trust, unincorporated organization, or government or any agency or political subdivision thereof or other public body.

**“Purchase Price”** means the principal amount of the Bonds plus accrued interest to the date of delivery, plus a premium of \$171,731.05, less an underwriting discount of \$23,877.25.

**“Purchaser”** means Country Club Bank, Leawood, Kansas, the original purchaser of the Bonds, and any successor and assigns.

**“Rating Agency”** means any company, agency or entity that provides, pursuant to request of the Issuer, financial ratings for the Bonds.

**“Rebate Fund”** means the Rebate Fund for General Obligation Bonds, Series 2021A created pursuant to *Section 501* hereof.

**“Record Dates”** for the interest payable on any Interest Payment Date means the fifteenth day (whether or not a Business Day) of the calendar month next preceding such Interest Payment Date.

**“Redemption Date”** means, when used with respect to any Bond to be redeemed, the date fixed for the redemption of such Bond pursuant to the terms of this Bond Resolution.

**“Redemption Price”** means, when used with respect to any Bond to be redeemed, the price at which such Bond is to be redeemed pursuant to the terms of this Bond Resolution, including the applicable redemption premium, if any, but excluding installments of interest whose Stated Maturity is on or before the Redemption Date.

**“Replacement Bonds”** means Bonds issued to the Beneficial Owners of the Bonds in accordance with *Section 210* hereof.

**“SEC Rule”** means Rule 15c2-12 adopted by the Securities and Exchange Commission under the Securities Exchange Act of 1934.

**“Securities Depository”** means, initially, DTC, and its successors and assigns.

**“Special Record Date”** means the date fixed by the Paying Agent pursuant to *Article II* hereof for the payment of Defaulted Interest.

**“Standard & Poor's” or “S&P”** means S&P Global Ratings, a division of S&P Global Inc., a corporation organized and existing under the laws of the State of New York, and its successors and assigns, and, if such corporation shall be dissolved or liquidated or shall no longer perform the functions of a securities rating agency, Standard & Poor's shall be deemed to refer to any other nationally recognized securities rating agency designated by the Issuer.

**“State”** means the state of Kansas.

**“State Treasurer”** means the duly elected Treasurer or, in the Treasurer's absence, the duly appointed Deputy Treasurer or acting Treasurer of the State.

**“Stated Maturity”** when used with respect to any Bond or any installment of interest thereon means the date specified in such Bond and this Bond Resolution as the fixed date on which the principal of such Bond or such installment of interest is due and payable.

**“Substitute Improvements”** means the substitute or additional improvements of the Issuer described in *Article V* hereof.

**“Treasurer”** means the duly appointed and/or elected Treasurer of the Issuer or, in the Treasurer's absence, the duly appointed Deputy Treasurer or acting Treasurer of the Issuer.

“United States Government Obligations” means bonds, notes, certificates of indebtedness, treasury bills or other securities constituting direct obligations of, or obligations the principal of and interest on which are fully and unconditionally guaranteed as to full and timely payment by, the United States of America, including evidences of a direct ownership interest in future interest or principal payment on obligations issued by the United States of America (including the interest component of obligations of the Resolution Funding Corporation), or securities which represent an undivided interest in such obligations, which obligations are rated in the highest rating category by a nationally recognized rating service and such obligations are held in a custodial account for the benefit of the Issuer.

## ARTICLE II

### AUTHORIZATION AND DETAILS OF THE BONDS

**Section 201. Authorization of the Bonds.** The Bonds have been authorized and directed to be issued pursuant to the Ordinance in the principal amount of \$3,205,000, for the purpose of providing funds to: (a) pay a portion of the costs of the Improvements and (b) pay Costs of Issuance.

**Section 202. Description of the Bonds.** The Bonds shall consist of fully registered bonds in an Authorized Denomination, and shall be numbered in such manner as the Bond Registrar shall determine. All of the Bonds shall be dated as of the Dated Date, shall become due in the amounts, on the Stated Maturities, subject to redemption and payment prior to their Stated Maturities as provided in *Article III* hereof, and shall bear interest at the rates per annum as follows:

#### SERIAL BONDS

| <u>Stated Maturity</u><br><u>September 1</u> | <u>Principal</u><br><u>Amount</u> | <u>Annual Rate</u><br><u>of Interest</u> | <u>Stated Maturity</u><br><u>September 1</u> | <u>Principal</u><br><u>Amount</u> | <u>Annual Rate</u><br><u>of Interest</u> |
|--|-----------------------------------|--|--|-----------------------------------|--|
| 2022   | \$190,000                         | 3.000%                                   | 2030   | \$220,000                         | 2.000%                                   |
| 2023   | 185,000                           | 3.000                                    | 2031   | 220,000                           | 2.000                                    |
| 2024   | 190,000                           | 3.000                                    | 2032   | 225,000                           | 2.000                                    |
| 2025   | 195,000                           | 3.000                                    | 2033   | 230,000                           | 2.000                                    |
| 2026   | 200,000                           | 3.000                                    | 2034   | 235,000                           | 2.000                                    |
| 2027   | 205,000                           | 2.000                                    | 2035   | 240,000                           | 2.000                                    |
| 2028   | 210,000                           | 2.000                                    | 2036   | 245,000                           | 2.000                                    |
| 2029   | 215,000                           | 2.000                                    |  |                                   |  |

The Bonds shall bear interest at the above specified rates (computed on the basis of a 360-day year of twelve 30-day months) from the later of the Dated Date or the most recent Interest Payment Date to which interest has been paid on the Interest Payment Dates in the manner set forth in *Section 204* hereof.

Each of the Bonds, as originally issued or issued upon transfer, exchange or substitution, shall be printed in accordance with the format required by the Attorney General of the State and shall be substantially in the form attached hereto as *EXHIBIT A* or as may be required by the Attorney General pursuant to the Notice of Systems of Registration for Kansas Municipal Bonds, 2 Kan. Reg. 921 (1983), in accordance with the Kansas Bond Registration Law, K.S.A. 10-620 *et seq.*

**Section 203. Designation of Paying Agent and Bond Registrar.** The State Treasurer is hereby designated as the Paying Agent for the payment of principal of and interest on the Bonds and Bond

Registrar with respect to the registration, transfer and exchange of Bonds. The Mayor of the Issuer is hereby authorized and empowered to execute on behalf of the Issuer an agreement with the Bond Registrar and Paying Agent for the Bonds.

The Issuer will at all times maintain a Paying Agent and Bond Registrar meeting the qualifications herein described for the performance of the duties hereunder. The Issuer reserves the right to appoint a successor Paying Agent or Bond Registrar by (a) filing with the Paying Agent or Bond Registrar then performing such function a certified copy of the proceedings giving notice of the termination of such Paying Agent or Bond Registrar and appointing a successor, and (b) causing notice of appointment of the successor Paying Agent and Bond Registrar to be given by first class mail to each Owner. No resignation or removal of the Paying Agent or Bond Registrar shall become effective until a successor has been appointed and has accepted the duties of Paying Agent or Bond Registrar.

Every Paying Agent or Bond Registrar appointed hereunder shall at all times meet the requirements of K.S.A. 10-501 *et seq.* and K.S.A. 10-620 *et seq.*, respectively.

**Section 204. Method and Place of Payment of the Bonds.** The principal of, or Redemption Price, and interest on the Bonds shall be payable in any coin or currency which, on the respective dates of payment thereof, is legal tender for the payment of public and private debts.

The principal or Redemption Price of each Bond shall be paid at Maturity to the Person in whose name such Bond is registered on the Bond Register at the Maturity thereof, upon presentation and surrender of such Bond at the principal office of the Paying Agent.

The interest payable on each Bond on any Interest Payment Date shall be paid to the Owner of such Bond as shown on the Bond Register at the close of business on the Record Date for such interest (a) by check or draft mailed by the Paying Agent to the address of such Owner shown on the Bond Register or at such other address as is furnished to the Paying Agent in writing by such Owner; or (b) in the case of an interest payment to Cede & Co. or any Owner of \$500,000 or more in aggregate principal amount of Bonds, by electronic transfer to such Owner upon written notice given to the Bond Registrar by such Owner, not less than 15 days prior to the Record Date for such interest, containing the electronic transfer instructions including the bank ABA routing number and account number to which such Owner wishes to have such transfer directed.

Notwithstanding the foregoing provisions of this Section, any Defaulted Interest with respect to any Bond shall cease to be payable to the Owner of such Bond on the relevant Record Date and shall be payable to the Owner in whose name such Bond is registered at the close of business on the Special Record Date for the payment of such Defaulted Interest, which Special Record Date shall be fixed as hereinafter specified in this paragraph. The Issuer shall notify the Paying Agent in writing of the amount of Defaulted Interest proposed to be paid on each Bond and the date of the proposed payment (which date shall be at least 30 days after receipt of such notice by the Paying Agent) and shall deposit with the Paying Agent at the time of such notice an amount of money equal to the aggregate amount proposed to be paid in respect of such Defaulted Interest or shall make arrangements satisfactory to the Paying Agent for such deposit prior to the date of the proposed payment. Following receipt of such funds the Paying Agent shall fix a Special Record Date for the payment of such Defaulted Interest which shall be not more than 15 nor less than 10 days prior to the date of the proposed payment. The Paying Agent shall promptly notify the Issuer of such Special Record Date and, in the name and at the expense of the Issuer, shall cause notice of the proposed payment of such Defaulted Interest and the Special Record Date therefore to be mailed, by first class mail, postage prepaid, to each Owner of a Bond entitled to such notice at the address of such Owner as it appears on the Bond Register not less than 10 days prior to such Special Record Date.

The Paying Agent shall keep a record of payment of principal and Redemption Price of and interest on all Bonds and at least annually shall forward a copy or summary of such records to the Issuer.

**Section 205. Payments Due on Saturdays, Sundays and Holidays.** In any case where a Bond Payment Date is not a Business Day, then payment of principal, Redemption Price or interest need not be made on such Bond Payment Date but may be made on the next succeeding Business Day with the same force and effect as if made on such Bond Payment Date, and no interest shall accrue for the period after such Bond Payment Date.

**Section 206. Registration, Transfer and Exchange of Bonds.** The Issuer covenants that, as long as any of the Bonds remain Outstanding, it will cause the Bond Register to be kept at the office of the Bond Registrar as herein provided. Each Bond when issued shall be registered in the name of the Owner thereof on the Bond Register.

Bonds may be transferred and exchanged only on the Bond Register as provided in this Section. Upon surrender of any Bond at the principal office of the Bond Registrar, the Bond Registrar shall transfer or exchange such Bond for a new Bond or Bonds in any Authorized Denomination of the same Stated Maturity and in the same aggregate principal amount as the Bond that was presented for transfer or exchange.

Bonds presented for transfer or exchange shall be accompanied by a written instrument or instruments of transfer or authorization for exchange, in a form and with guarantee of signature satisfactory to the Bond Registrar, duly executed by the Owner thereof or by the Owner's duly authorized agent.

In all cases in which the privilege of transferring or exchanging Bonds is exercised, the Bond Registrar shall authenticate and deliver Bonds in accordance with the provisions of this Bond Resolution. The Issuer shall pay the fees and expenses of the Bond Registrar for the registration, transfer and exchange of Bonds provided for by this Bond Resolution and the cost of printing a reasonable supply of registered bond blanks. Any additional costs or fees that might be incurred in the secondary market, other than fees of the Bond Registrar, are the responsibility of the Owners of the Bonds. In the event any Owner fails to provide a correct taxpayer identification number to the Paying Agent, the Paying Agent may make a charge against such Owner sufficient to pay any governmental charge required to be paid as a result of such failure. In compliance with Code § 3406, such amount may be deducted by the Paying Agent from amounts otherwise payable to such Owner hereunder or under the Bonds.

The Issuer and the Bond Registrar shall not be required (a) to register the transfer or exchange of any Bond that has been called for redemption after notice of such redemption has been mailed by the Paying Agent pursuant to *Article III* hereof and during the period of 15 days next preceding the date of mailing of such notice of redemption; or (b) to register the transfer or exchange of any Bond during a period beginning at the opening of business on the day after receiving written notice from the Issuer of its intent to pay Defaulted Interest and ending at the close of business on the date fixed for the payment of Defaulted Interest pursuant to this *Article II*.

The Issuer and the Paying Agent may deem and treat the Person in whose name any Bond is registered on the Bond Register as the absolute Owner of such Bond, whether such Bond is overdue or not, for the purpose of receiving payment of, or on account of, the principal or Redemption Price of and interest on said Bond and for all other purposes. All payments so made to any such Owner or upon the Owner's order shall be valid and effective to satisfy and discharge the liability upon such Bond to the extent of the sum or sums so paid, and neither the Issuer nor the Paying Agent shall be affected by any notice to the contrary.

At reasonable times and under reasonable regulations established by the Bond Registrar, the Bond Register may be inspected and copied by the Owners (or a designated representative thereof) of 10% or more in principal amount of the Bonds then Outstanding or any designated representative of such Owners whose authority is evidenced to the satisfaction of the Bond Registrar.

**Section 207. Execution, Registration, Authentication and Delivery of Bonds.** Each of the Bonds, including any Bonds issued in exchange or as substitutions for the Bonds initially delivered, shall be executed for and on behalf of the Issuer by the manual, electronic or facsimile signature of the Mayor, attested by the manual, electronic or facsimile signature of the Clerk, and the seal of the Issuer shall be affixed thereto or imprinted thereon. The Mayor and Clerk are hereby authorized and directed to prepare and execute the Bonds in the manner herein specified, and to cause the Bonds to be registered in the office of the Clerk, which registration shall be evidenced by the manual, electronic or facsimile signature of the Clerk with the seal of the Issuer affixed thereto or imprinted thereon. The Bonds shall also be registered in the office of the State Treasurer, which registration shall be evidenced by the manual, electronic or facsimile signature of the State Treasurer with the seal of the State Treasurer affixed thereto or imprinted thereon. In case any officer whose signature appears on any Bonds ceases to be such officer before the delivery of such Bonds, such signature shall nevertheless be valid and sufficient for all purposes, as if such person had remained in office until delivery. Any Bond may be signed by such persons who at the actual time of the execution of such Bond are the proper officers to sign such Bond although at the date of such Bond such persons may not have been such officers.

The Mayor and Clerk are hereby authorized and directed to prepare and execute the Bonds as herein specified, and when duly executed, to deliver the Bonds to the Bond Registrar for authentication.

The Bonds shall have endorsed thereon a certificate of authentication substantially in the form attached hereto as *EXHIBIT A* hereof, which shall be manually executed by an authorized officer or employee of the Bond Registrar, but it shall not be necessary that the same officer or employee sign the certificate of authentication on all of the Bonds that may be issued hereunder at any one time. No Bond shall be entitled to any security or benefit under this Bond Resolution or be valid or obligatory for any purpose unless and until such certificate of authentication has been duly executed by the Bond Registrar. Such executed certificate of authentication upon any Bond shall be conclusive evidence that such Bond has been duly authenticated and delivered under this Bond Resolution. Upon authentication, the Bond Registrar shall deliver the Bonds to the Purchaser upon instructions of the Issuer or its representative.

**Section 208. Mutilated, Lost, Stolen or Destroyed Bonds.** If (a) any mutilated Bond is surrendered to the Bond Registrar or the Bond Registrar receives evidence to its satisfaction of the destruction, loss or theft of any Bond, and (b) there is delivered to the Issuer and the Bond Registrar such security or indemnity as may be required by each of them, then, in the absence of notice to the Issuer or the Bond Registrar that such Bond has been acquired by a bona fide purchaser, the Issuer shall execute and, upon the Issuer's request, the Bond Registrar shall authenticate and deliver, in exchange for or in lieu of any such mutilated, destroyed, lost or stolen Bond, a new Bond of the same Stated Maturity and of like tenor and principal amount.

If any such mutilated, destroyed, lost or stolen Bond has become or is about to become due and payable, the Issuer, in its discretion, may pay such Bond instead of issuing a new Bond.

Upon the issuance of any new Bond under this Section, the Issuer and the Paying Agent may require the payment by the Owner of a sum sufficient to cover any tax or other governmental charge that may be imposed in relation thereto and any other expenses (including the fees and expenses of the Paying Agent) connected therewith.

Every new Bond issued pursuant to this Section shall constitute a replacement of the prior obligation of the Issuer, and shall be entitled to all the benefits of this Bond Resolution equally and ratably with all other Outstanding Bonds.

**Section 209. Cancellation and Destruction of Bonds Upon Payment.** All Bonds that have been paid or redeemed or that otherwise have been surrendered to the Paying Agent, either at or before Maturity, shall be cancelled by the Paying Agent immediately upon the payment, redemption and surrender thereof to the Paying Agent and subsequently destroyed in accordance with the customary practices of the Paying Agent. The Paying Agent shall execute a certificate in duplicate describing the Bonds so cancelled and destroyed and shall file an executed counterpart of such certificate with the Issuer.

**Section 210. Book-Entry Bonds; Securities Depository.** The Issuer and Paying Agent have entered into a DTC Representation Letter with DTC. The Bonds shall initially be registered to Cede & Co., the nominee for the Securities Depository, and no Beneficial Owner will receive certificates representing their respective interests in the Bonds, except in the event the Bond Registrar issues Replacement Bonds as provided in this Section. It is anticipated that during the term of the Bonds, the Securities Depository will make book-entry transfers among its Participants and receive and transmit payment of principal of, premium, if any, and interest on, the Bonds to the Participants until and unless the Bond Registrar authenticates and delivers Replacement Bonds to the Beneficial Owners as described in the following paragraph.

The Issuer may decide, subject to the requirements of the Operational Arrangements of DTC (or a successor Securities Depository), and the following provisions of this section to discontinue use of the system of book-entry transfers through DTC (or a successor Securities Depository):

(a) If the Issuer determines (1) that the Securities Depository is unable to properly discharge its responsibilities, or (2) that the Securities Depository is no longer qualified to act as a securities depository and registered clearing agency under the Securities and Exchange Act of 1934, as amended, or (3) that the continuation of a book-entry system to the exclusion of any Bonds being issued to any Owner other than Cede & Co. is no longer in the best interests of the Beneficial Owners of the Bonds; or

(b) if the Bond Registrar receives written notice from Participants having interests in not less than 50% of the Bonds Outstanding, as shown on the records of the Securities Depository (and certified to such effect by the Securities Depository), that the continuation of a book-entry system to the exclusion of any Bonds being issued to any Owner other than Cede & Co. is no longer in the best interests of the Beneficial Owners of the Bonds, then the Bond Registrar shall notify the Owners of such determination or such notice and of the availability of certificates to Owners requesting the same, and the Bond Registrar shall register in the name of and authenticate and deliver Replacement Bonds to the Beneficial Owners or their nominees in principal amounts representing the interest of each, making such adjustments as it may find necessary or appropriate as to accrued interest and previous calls for redemption; provided, that in the case of a determination under (a)(1) or (a)(2) of this paragraph, the Issuer, with the consent of the Bond Registrar, may select a successor securities depository in accordance with the following paragraph to effect book-entry transfers.

In such event, all references to the Securities Depository herein shall relate to the period of time when the Securities Depository has possession of at least one Bond. Upon the issuance of Replacement Bonds, all references herein to obligations imposed upon or to be performed by the Securities Depository shall be deemed to be imposed upon and performed by the Bond Registrar, to the extent applicable with respect to such Replacement Bonds. If the Securities Depository resigns and the Issuer, the Bond Registrar

or Owners are unable to locate a qualified successor of the Securities Depository in accordance with the following paragraph, then the Bond Registrar shall authenticate and cause delivery of Replacement Bonds to Owners, as provided herein. The Bond Registrar may rely on information from the Securities Depository and its Participants as to the names of the Beneficial Owners of the Bonds. The cost of printing, registration, authentication, and delivery of Replacement Bonds shall be paid for by the Issuer.

In the event the Securities Depository resigns, is unable to properly discharge its responsibilities, or is no longer qualified to act as a securities depository and registered clearing agency under the Securities and Exchange Act of 1934, as amended, the Issuer may appoint a successor Securities Depository provided the Bond Registrar receives written evidence satisfactory to the Bond Registrar with respect to the ability of the successor Securities Depository to discharge its responsibilities. Any such successor Securities Depository shall be a securities depository which is a registered clearing agency under the Securities and Exchange Act of 1934, as amended, or other applicable statute or regulation that operates a securities depository upon reasonable and customary terms. The Bond Registrar upon its receipt of a Bond or Bonds for cancellation shall cause the delivery of Bonds to the successor Securities Depository in an Authorized Denominations and form as provided herein.

**Section 211. Nonpresentment of Bonds.** If any Bond is not presented for payment when the principal thereof becomes due at Maturity, if funds sufficient to pay such Bond have been made available to the Paying Agent all liability of the Issuer to the Owner thereof for the payment of such Bond shall forthwith cease, determine and be completely discharged, and thereupon it shall be the duty of the Paying Agent to hold such funds, without liability for interest thereon, for the benefit of the Owner of such Bond, who shall thereafter be restricted exclusively to such funds for any claim of whatever nature on his part under this Bond Resolution or on, or with respect to, said Bond. If any Bond is not presented for payment within four (4) years following the date when such Bond becomes due at Maturity, the Paying Agent shall repay, without liability for interest thereon, to the Issuer the funds theretofore held by it for payment of such Bond, and such Bond shall, subject to the defense of any applicable statute of limitation, thereafter be an unsecured obligation of the Issuer, and the Owner thereof shall be entitled to look only to the Issuer for payment, and then only to the extent of the amount so repaid to it by the Paying Agent, and the Issuer shall not be liable for any interest thereon and shall not be regarded as a trustee of such money.

**Section 212. Preliminary and Final Official Statement.** The Preliminary Official Statement dated October 7, 2021, is hereby ratified and approved.

The Official Statement is hereby authorized to be prepared by supplementing, amending and completing the Preliminary Official Statement, with such changes and additions thereto as are necessary to conform to and describe the transaction. The Mayor and chief financial officer of the Issuer are hereby authorized to execute the Official Statement as so supplemented, amended and completed, and the use and public distribution of the Official Statement by the Purchaser in connection with the reoffering of the Bonds is hereby authorized. The proper officials of the Issuer are hereby authorized to execute and deliver a certificate pertaining to such Official Statement as prescribed therein, dated as of the Issue Date.

The Issuer agrees to provide to the Purchaser within seven business days of the date of the sale of Bonds sufficient copies of the Official Statement to enable the Purchaser to comply with the requirements of the SEC Rule and Rule G-32 of the Municipal Securities Rulemaking Board.

**Section 213. Sale of the Bonds.** The sale of the Bonds to the Purchaser is hereby ratified and confirmed. The Mayor and Clerk are hereby authorized to execute the official bid form submitted by the Purchaser. Delivery of the Bonds shall be made to the Purchaser on the Issue Date (which

shall be as soon as practicable after the adoption of this Bond Resolution), upon payment of the Purchase Price.

### ARTICLE III

#### REDEMPTION OF BONDS

**Section 301. Redemption by Issuer.**

**Optional Redemption.** At the option of the Issuer, Bonds maturing on September 1 in the years 2030 and thereafter, will be subject to redemption and payment prior to their Stated Maturity on September 1, 2029, and thereafter, as a whole or in part (selection of maturities and the amount of Bonds of each maturity to be redeemed to be determined by the Issuer in such equitable manner as it may determine) at any time, at the Redemption Price of 100% (expressed as a percentage of the principal amount), plus accrued interest to the Redemption Date.

**Section 302. Selection of Bonds to be Redeemed.** Bonds shall be redeemed only in an Authorized Denomination. When less than all of the Bonds are to be redeemed and paid prior to their Stated Maturity, such Bonds shall be redeemed in such manner as the Issuer shall determine. Bonds of less than a full Stated Maturity shall be selected by the Bond Registrar in a minimum Authorized Denomination of principal amount in such equitable manner as the Bond Registrar may determine.

In the case of a partial redemption of Bonds by lot when Bonds of denominations greater than a minimum Authorized Denomination are then Outstanding, then for all purposes in connection with such redemption a minimum Authorized Denomination of face value shall be treated as though it were a separate Bond of the denomination of a minimum Authorized Denomination. If it is determined that one or more, but not all, of a minimum Authorized Denomination of face value represented by any Bond is selected for redemption, then upon notice of intention to redeem a minimum Authorized Denomination, the Owner or the Owner's duly authorized agent shall forthwith present and surrender such Bond to the Bond Registrar: (1) for payment of the Redemption Price and interest to the Redemption Date of a minimum Authorized Denomination of face value called for redemption, and (2) for exchange, without charge to the Owner thereof, for a new Bond or Bonds of the aggregate principal amount of the unredeemed portion of the principal amount of such Bond. If the Owner of any such Bond fails to present such Bond to the Paying Agent for payment and exchange as aforesaid, such Bond shall, nevertheless, become due and payable on the redemption date to the extent of a minimum Authorized Denomination of face value called for redemption (and to that extent only).

**Section 303. Notice and Effect of Call for Redemption.** In the event the Issuer desires to call the Bonds for redemption prior to maturity, written notice of such intent shall be provided to the Bond Registrar in accordance with K.S.A. 10-129, as amended, not less than 45 days prior to the Redemption Date. The Bond Registrar shall call Bonds for redemption and payment and shall give notice of such redemption as herein provided upon receipt by the Bond Registrar at least 45 days prior to the Redemption Date of written instructions of the Issuer specifying the principal amount, Stated Maturities, Redemption Date and Redemption Prices of the Bonds to be called for redemption.

Unless waived by any Owner of Bonds to be redeemed, if the Issuer shall call any Bonds for redemption and payment prior to the Stated Maturity thereof, the Issuer shall give written notice of its

intention to call and pay said Bonds to the Bond Registrar and the State Treasurer. In addition, the Issuer shall cause the Bond Registrar to give written notice of redemption to the Owners of said Bonds. Each of said written notices shall be deposited in the United States first class mail not less than 30 days prior to the Redemption Date.

All official notices of redemption shall be dated and shall contain the following information:

- (a) the Redemption Date;
- (b) the Redemption Price;
- (c) if less than all Outstanding Bonds are to be redeemed, the identification (and, in the case of partial redemption of any Bonds, the respective principal amounts) of the Bonds to be redeemed;
- (d) a statement that on the Redemption Date the Redemption Price will become due and payable upon each such Bond or portion thereof called for redemption and that interest thereon shall cease to accrue from and after the Redemption Date; and
- (e) the place where such Bonds are to be surrendered for payment of the Redemption Price, which shall be the principal office of the Paying Agent.

The failure of any Owner to receive notice given as heretofore provided or an immaterial defect therein shall not invalidate any redemption.

Prior to any Redemption Date, the Issuer shall deposit with the Paying Agent an amount of money sufficient to pay the Redemption Price of all the Bonds or portions of Bonds that are to be redeemed on such Redemption Date.

For so long as the Securities Depository is effecting book-entry transfers of the Bonds, the Bond Registrar shall provide the notices specified in this Section to the Securities Depository. It is expected that the Securities Depository shall, in turn, notify its Participants and that the Participants, in turn, will notify or cause to be notified the Beneficial Owners. Any failure on the part of the Securities Depository or a Participant, or failure on the part of a nominee of a Beneficial Owner of a Bond (having been mailed notice from the Bond Registrar, the Securities Depository, a Participant or otherwise) to notify the Beneficial Owner of the Bond so affected, shall not affect the validity of the redemption of such Bond.

Official notice of redemption having been given as aforesaid, the Bonds or portions of Bonds to be redeemed shall become due and payable on the Redemption Date, at the Redemption Price therein specified, and from and after the Redemption Date (unless the Issuer defaults in the payment of the Redemption Price) such Bonds or portion of Bonds shall cease to bear interest. Upon surrender of such Bonds for redemption in accordance with such notice, the Redemption Price of such Bonds shall be paid by the Paying Agent. Installments of interest due on or prior to the Redemption Date shall be payable as herein provided for payment of interest. Upon surrender for any partial redemption of any Bond, there shall be prepared for the Owner a new Bond or Bonds of the same Stated Maturity in the amount of the unpaid principal as provided herein. All Bonds that have been surrendered for redemption shall be cancelled and destroyed by the Paying Agent as provided herein and shall not be reissued.

In addition to the foregoing notice, the Issuer shall provide such notices of redemption as are required by the Disclosure Undertaking. Further notice may be given by the Issuer or the Bond Registrar on behalf of the Issuer as set out below, but no defect in said further notice nor any failure to give all or any

portion of such further notice shall in any manner defeat the effectiveness of a call for redemption if official notice thereof is given as above prescribed:

(a) Each further notice of redemption given hereunder shall contain the information required above for an official notice of redemption plus (1) the CUSIP numbers of all Bonds being redeemed; (2) the date of issue of the Bonds as originally issued; (3) the rate of interest borne by each Bond being redeemed; (4) the maturity date of each Bond being redeemed; and (5) any other descriptive information needed to identify accurately the Bonds being redeemed.

(b) Each further notice of redemption shall be sent at least one day before the mailing of notice to Owners by first class, registered or certified mail or overnight delivery, as determined by the Bond Registrar, to all registered securities depositories then in the business of holding substantial amounts of obligations of types comprising the Bonds and to one or more national information services that disseminate notices of redemption of obligations such as the Bonds.

(c) Each check or other transfer of funds issued for the payment of the Redemption Price of Bonds being redeemed shall bear or have enclosed the CUSIP number of the Bonds being redeemed with the proceeds of such check or other transfer.

The Paying Agent is also directed to comply with any mandatory standards then in effect for processing redemptions of municipal securities established by the State or the Securities and Exchange Commission. Failure to comply with such standards shall not affect or invalidate the redemption of any Bond.

## ARTICLE IV

### SECURITY FOR BONDS

**Section 401. Security for the Bonds.** The Bonds shall be general obligations of the Issuer payable as to both principal and interest from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property, real and personal, within the territorial limits of the Issuer. The full faith, credit and resources of the Issuer are hereby irrevocably pledged for the prompt payment of the principal of and interest on the Bonds as the same become due.

**Section 402. Levy and Collection of Annual Tax; Transfer to Debt Service Account.** The Governing Body shall annually make provision for the payment of principal of, premium, if any, and interest on the Bonds as the same become due by, to the extent necessary, levying and collecting the necessary taxes upon all of the taxable tangible property within the Issuer in the manner provided by law.

The taxes referred to above shall be extended upon the tax rolls in each of the several years, respectively, and shall be levied and collected at the same time and in the same manner as the other ad valorem taxes of the Issuer are levied and collected. The proceeds derived from said taxes shall be deposited in the Bond and Interest Fund, shall be kept separate and apart from all other funds of the Issuer shall thereafter be transferred to the Debt Service Account and shall be used solely for the payment of the principal of and interest on the Bonds as and when the same become due, taking into account any scheduled mandatory redemptions, and the fees and expenses of the Paying Agent.

If at any time said taxes are not collected in time to pay the principal of or interest on the Bonds when due, the Treasurer is hereby authorized and directed to pay said principal or interest out of the general funds of the Issuer and to reimburse said general funds for money so expended when said taxes are collected.

## ARTICLE V

### ESTABLISHMENT OF FUNDS AND ACCOUNTS DEPOSIT AND APPLICATION OF BOND PROCEEDS

**Section 501. Creation of Funds and Accounts.** Simultaneously with the issuance of the Bonds, there shall be created within the Treasury of the Issuer the following Funds and Accounts:

- (a) Improvement Fund for General Obligation Bonds, Series 2021A.
- (b) Debt Service Account for General Obligation Bonds, Series 2021A (within the Bond and Interest Fund).
- (c) Rebate Fund for General Obligation Bonds, Series 2021A.

The Funds and Accounts established herein shall be administered in accordance with the provisions of this Bond Resolution so long as the Bonds are Outstanding.

**Section 502. Deposit of Bond Proceeds.** The net proceeds received from the sale of the Bonds shall be deposited simultaneously with the delivery of the Bonds as follows:

- (a) All accrued interest, if any, received from the sale of the Bonds shall be deposited in the Debt Service Account.
- (b) The remaining balance of the proceeds derived from the sale of the Bonds shall be deposited in the Improvement Fund.

**Section 503. Application of Moneys in the Improvement Fund.** Moneys in the Improvement Fund shall be used for the sole purpose of: (a) paying the costs of the Improvements, in accordance with the plans and specifications therefor approved by the Governing Body and on file in the office of the Clerk, including any alterations in or amendments to said plans and specifications deemed advisable and approved by the Governing Body; (b) paying interest on the Bonds during construction of the Improvements; (c) paying Costs of Issuance; and (d) transferring any amounts to the Rebate Fund required by this *Article V*. Upon completion of the Improvements, any surplus remaining in the Improvement Fund shall be deposited in the Debt Service Account.

**Section 504. Substitution of Improvements; Reallocation of Proceeds.**

- (a) The Issuer may elect for any reason to substitute or add other public improvements to be financed with proceeds of the Bonds provided the following conditions are met: (1) the Substitute Improvement and the issuance of general obligation bonds to pay the cost of the Substitute Improvement has been duly authorized by the Governing Body in accordance with the laws of the State; (2) a resolution or ordinance authorizing the use of the proceeds of the Bonds to pay the Financeable Costs of the Substitute Improvement has been duly adopted by the Governing Body pursuant to this Section, (3) the Attorney

General of the State has approved the amendment made by such resolution or ordinance to the transcript of proceedings for the Bonds to include the Substitute Improvements; and (4) the use of the proceeds of the Bonds to pay the Financeable Cost of the Substitute Improvement will not adversely affect the tax-exempt status of the Bonds under State or federal law.

(b) The Issuer may reallocate expenditure of Bond proceeds among all Improvements financed by the Bonds; provided the following conditions are met: (1) the reallocation is approved by the Governing Body; (2) the reallocation shall not cause the proceeds of the Bonds allocated to any Improvement to exceed the Financeable Costs of the Improvement; and (3) the reallocation will not adversely affect the tax-exempt status of the Bonds under State or federal law.

**Section 505. Application of Moneys in Debt Service Account.** All amounts paid and credited to the Debt Service Account shall be expended and used by the Issuer for the sole purpose of paying the principal or Redemption Price of and interest on the Bonds as and when the same become due and the usual and customary fees and expenses of the Bond Registrar and Paying Agent. The Treasurer is authorized and directed to withdraw from the Debt Service Account sums sufficient to pay both principal or Redemption Price of and interest on the Bonds and the fees and expenses of the Bond Registrar and Paying Agent as and when the same become due, and to forward such sums to the Paying Agent in a manner which ensures that the Paying Agent will receive immediately available funds in such amounts on or before the Business Day immediately preceding the dates when such principal, interest and fees of the Bond Registrar and Paying Agent will become due. If, through the lapse of time or otherwise, the Owners of Bonds are no longer entitled to enforce payment of the Bonds or the interest thereon, the Paying Agent shall return said funds to the Issuer. All moneys deposited with the Paying Agent shall be deemed to be deposited in accordance with and subject to all of the provisions contained in this Bond Resolution and shall be held in trust by the Paying Agent for the benefit of the Owners of the Bonds entitled to payment from such moneys.

Any moneys or investments remaining in the Debt Service Account after the retirement of the Bonds shall be transferred and paid into the Bond and Interest Fund.

**Section 506. Application of Moneys in the Rebate Fund.**

(a) There shall be deposited in the Rebate Fund such amounts as are required to be deposited therein pursuant to the Federal Tax Certificate. All money at any time deposited in the Rebate Fund shall be held in trust, to the extent required to satisfy the Rebate Amount (as defined in the Federal Tax Certificate), for payment to the United States of America, and neither the Issuer nor the Owner of any Bonds shall have any rights in or claim to such money. All amounts deposited into or on deposit in the Rebate Fund shall be governed by this Section and the Federal Tax Certificate.

(b) The Issuer shall periodically determine the arbitrage rebate, if any, under Code § 148(f) in accordance with the Federal Tax Certificate, and the Issuer shall make payments to the United States of America at the times and in the amounts determined under the Federal Tax Certificate. Any moneys remaining in the Rebate Fund after redemption and payment of all of the Bonds and payment and satisfaction of any Rebate Amount, or provision made therefor, shall be deposited into the Bond and Interest Fund.

(c) Notwithstanding any other provision of this Bond Resolution, including in particular *Article VII* hereof, the obligation to pay arbitrage rebate to the United States of America and to comply with all other requirements of this Section and the Federal Tax Certificate shall survive the defeasance or payment in full of the Bonds.

**Section 507. Deposits and Investment of Moneys.** Moneys in each of the Funds and Accounts shall be deposited in accordance with laws of the State, in a bank, savings and loan association or savings bank organized under the laws of the State, any other state or the United States: (a) which has a main or branch office located in the Issuer; or (b) if no such entity has a main or branch office located in the Issuer, with such an entity that has a main or branch office located in the county or counties in which the Issuer is located. All such depositories shall be members of the Federal Deposit Insurance Corporation, or otherwise as permitted by State law. All such deposits shall be invested in Permitted Investments as set forth in this Article or shall be adequately secured as provided by the laws of the State. All moneys held in the Funds and Accounts shall be kept separate and apart from all other funds of the Issuer so that there shall be no commingling with any other funds of the Issuer.

Moneys held in any Fund or Account may be invested in accordance with this Bond Resolution and the Federal Tax Certificate in Permitted Investments; provided, however, that no such investment shall be made for a period extending longer than to the date when the moneys invested may be needed for the purpose for which such fund was created. All earnings on any investments held in any Fund or Account shall accrue to and become a part of such Fund or Account; provided that, during the period of construction of the Improvements, earnings on the investment of such funds may, at the discretion of the Issuer, be credited to the Debt Service Account.

## ARTICLE VI

### DEFAULT AND REMEDIES

**Section 601. Remedies.** The provisions of the Bond Resolution, including the covenants and agreements herein contained, shall constitute a contract between the Issuer and the Owners of the Bonds. If an Event of Default occurs and shall be continuing, the Owner or Owners of not less than 10% in principal amount of the Bonds at the time Outstanding shall have the right for the equal benefit and protection of all Owners of Bonds similarly situated:

(a) by mandamus or other suit, action or proceedings at law or in equity to enforce the rights of such Owner or Owners against the Issuer and its officers, agents and employees, and to require and compel duties and obligations required by the provisions of the Bond Resolution or by the Constitution and laws of the State;

(b) by suit, action or other proceedings in equity or at law to require the Issuer, its officers, agents and employees to account as if they were the trustees of an express trust; and

(c) by suit, action or other proceedings in equity or at law to enjoin any acts or things which may be unlawful or in violation of the rights of the Owners of the Bonds.

**Section 602. Limitation on Rights of Owners.** The covenants and agreements of the Issuer contained herein and in the Bonds shall be for the equal benefit, protection, and security of the Owners of any or all of the Bonds, all of which Bonds shall be of equal rank and without preference or priority of one Bond over any other Bond in the application of the funds herein pledged to the payment of the principal of and the interest on the Bonds, or otherwise, except as to rate of interest, date of maturity and right of prior redemption as provided in this Bond Resolution. No one or more Owners secured hereby shall have any right in any manner whatever by his or their action to affect, disturb or prejudice the security granted and provided for herein, or to enforce any right hereunder,

except in the manner herein provided, and all proceedings at law or in equity shall be instituted, had and maintained for the equal benefit of all Outstanding Bonds.

**Section 603. Remedies Cumulative.** No remedy conferred herein upon the Owners is intended to be exclusive of any other remedy, but each such remedy shall be cumulative and in addition to every other remedy and may be exercised without exhausting and without regard to any other remedy conferred herein. No waiver of any default or breach of duty or contract by the Owner of any Bond shall extend to or affect any subsequent default or breach of duty or contract or shall impair any rights or remedies thereon. No delay or omission of any Owner to exercise any right or power accruing upon any default shall impair any such right or power or shall be construed to be a waiver of any such default or acquiescence therein. Every substantive right and every remedy conferred upon the Owners of the Bonds by this Bond Resolution may be enforced and exercised from time to time and as often as may be deemed expedient. If action or proceedings taken by any Owner on account of any default or to enforce any right or exercise any remedy has been discontinued or abandoned for any reason, or shall have been determined adversely to such Owner, then, and in every such case, the Issuer and the Owners of the Bonds shall, subject to any determination in such action or proceeding or applicable law of the State, be restored to their former positions and rights hereunder, respectively, and all rights, remedies, powers and duties of the Owners shall continue as if no such suit, action or other proceedings had been brought or taken.

## ARTICLE VII

### DEFEASANCE

**Section 701. Defeasance.** When any or all of the Bonds, redemption premium, if any, or scheduled interest payments thereon have been paid and discharged, then the requirements contained in this Bond Resolution and the pledge of the Issuer's faith and credit hereunder and all other rights granted hereby shall terminate with respect to the Bonds or scheduled interest payments thereon so paid and discharged. Bonds, redemption premium, if any, or scheduled interest payments thereon shall be deemed to have been paid and discharged within the meaning of this Bond Resolution if there has been deposited with the Paying Agent, or other commercial bank or trust company located in the State and having full trust powers, at or prior to the Stated Maturity or Redemption Date of said Bonds or the interest payments thereon, in trust for and irrevocably appropriated thereto, moneys and/or Defeasance Obligations which, together with the interest to be earned on any such Defeasance Obligations, will be sufficient for the payment of the principal of or Redemption Price of said Bonds and/or interest accrued to the Stated Maturity or Redemption Date, or if default in such payment has occurred on such date, then to the date of the tender of such payments. If the amount to be so deposited is based on the Redemption Price of any Bonds, no such satisfaction shall occur until (a) the Issuer has elected to redeem such Bonds, and (b) either notice of such redemption has been given, or the Issuer has given irrevocable instructions, or shall have provided for an escrow agent to give irrevocable instructions, to the Bond Registrar to give such notice of redemption in compliance with *Article III* hereof. Any money and Defeasance Obligations that at any time shall be deposited with the Paying Agent or other commercial bank or trust company by or on behalf of the Issuer, for the purpose of paying and discharging any of the Bonds, shall be and are hereby assigned, transferred and set over to the Paying Agent or other bank or trust company in trust for the respective Owners of the Bonds, and such moneys shall be and are hereby irrevocably appropriated to the payment and discharge thereof. All money and Defeasance Obligations deposited with the Paying Agent or such bank or trust company shall be deemed to be deposited in accordance with and subject to all of the provisions of this Bond Resolution.

## ARTICLE VIII

### TAX COVENANTS

**Section 801. General Covenants.** The Issuer covenants and agrees that it will comply with: (a) all applicable provisions of the Code necessary to maintain the exclusion from gross income for federal income tax purposes of the interest on the Bonds; and (b) all provisions and requirements of the Federal Tax Certificate. The Mayor and Clerk are hereby authorized and directed to execute the Federal Tax Certificate in a form approved by Bond Counsel, for and on behalf of and as the act and deed of the Issuer. The Issuer will, in addition, adopt such other ordinances or resolutions and take such other actions as may be necessary to comply with the Code and with all other applicable future laws, regulations, published rulings and judicial decisions, in order to ensure that the interest on the Bonds will remain excluded from federal gross income, to the extent any such actions can be taken by the Issuer.

**Section 802. Survival of Covenants.** The covenants contained in this Article and in the Federal Tax Certificate shall remain in full force and effect notwithstanding the defeasance of the Bonds pursuant to *Article VII* hereof or any other provision of this Bond Resolution until such time as is set forth in the Federal Tax Certificate.

## ARTICLE IX

### CONTINUING DISCLOSURE REQUIREMENTS

**Section 901. Disclosure Requirements.** The Mayor and Clerk are hereby authorized and directed to execute the Disclosure Undertaking in a form approved by Bond Counsel, for and on behalf of and as the act and deed of the Issuer. The Issuer hereby covenants with the Purchaser and the Beneficial Owners to provide and disseminate such information as is required by the SEC Rule and as further set forth in the Disclosure Undertaking, the provisions of which are incorporated herein by reference. Such covenant shall be for the benefit of and enforceable by the Purchaser and the Beneficial Owners.

**Section 901. Failure to Comply with Continuing Disclosure Requirements.** In the event the Issuer fails to comply in a timely manner with its covenants contained in the preceding section, the Purchaser and/or any Beneficial Owner may make demand for such compliance by written notice to the Issuer. In the event the Issuer does not remedy such noncompliance within 10 days of receipt of such written notice, the Purchaser or any Beneficial Owner may in its discretion, without notice or demand, proceed to enforce compliance by a suit or suits in equity for the specific performance of such covenant or agreement contained in the preceding section or for the enforcement of any other appropriate legal or equitable remedy, as the Purchaser and/or any Beneficial Owner shall deem effectual to protect and enforce any of the duties of the Issuer under such preceding section. Notwithstanding any other provision of this Bond Resolution, failure of the Issuer to comply with its covenants contained in the preceding section shall not be considered an Event of Default under this Bond Resolution.

## ARTICLE X

### MISCELLANEOUS PROVISIONS

**Section 1001. Annual Audit.** Annually, promptly after the end of the Fiscal Year, the Issuer will cause an audit to be made of the financial statements of the Issuer for the preceding Fiscal Year by an Independent Accountant. Within 30 days after the completion of each such audit, a copy thereof shall be filed in the office of the Clerk. Such audit shall at all times during the usual business hours be open to the examination and inspection by any taxpayer, any Owner of any of the Bonds, or by anyone acting for or on behalf of such taxpayer or Owner. Upon payment of the reasonable cost of preparing and mailing the same, a copy of any annual audit will, upon request, be sent to any Owner or prospective Owner. As soon as possible after the completion of the annual audit, the Governing Body shall review such audit, and if the audit discloses that proper provision has not been made for all of the requirements of this Bond Resolution, the Issuer shall promptly cure such deficiency.

**Section 1002. Amendments.** The rights and duties of the Issuer and the Owners, and the terms and provisions of the Bonds or of this Bond Resolution, may be amended or modified at any time in any respect by ordinance or resolution of the Issuer with the written consent of the Owners of not less than a majority in principal amount of the Bonds then Outstanding, such consent to be evidenced by an instrument or instruments executed by such Owners and duly acknowledged or proved in the manner of a deed to be recorded, and such instrument or instruments shall be filed with the Clerk, but no such modification or alteration shall:

- (a) extend the maturity of any payment of principal or interest due upon any Bond;
- (b) effect a reduction in the amount which the Issuer is required to pay as principal of or interest on any Bond;
- (c) permit preference or priority of any Bond over any other Bond; or
- (d) reduce the percentage in principal amount of Bonds required for the written consent to any modification or alteration of the provisions of this Bond Resolution.

Any provision of the Bonds or of this Bond Resolution may, however, be amended or modified by ordinance or resolution duly adopted by the Governing Body at any time in any legal respect with the written consent of the Owners of all of the Bonds at the time Outstanding.

Without notice to or the consent of any Owners, the Issuer may amend or supplement this Bond Resolution for the purpose of curing any formal defect, omission, inconsistency or ambiguity herein, to grant to or confer upon the Owners any additional rights, remedies, powers or authority that may lawfully be granted to or conferred upon the Owners, to more precisely identify the Improvements, to reallocate proceeds of the Bonds among Improvements, to provide for Substitute Improvements, to conform this Bond Resolution to the Code or future applicable federal law concerning tax-exempt obligations, or in connection with any other change therein which is not materially adverse to the interests of the Owners.

Every amendment or modification of the provisions of the Bonds or of this Bond Resolution, to which the written consent of the Owners is given, as above provided, shall be expressed in a resolution or ordinance adopted by the Governing Body amending or supplementing the provisions of this Bond Resolution and shall be deemed to be a part of this Bond Resolution. A certified copy of every such amendatory or supplemental ordinance or resolution, if any, and a certified copy of this Bond Resolution

shall always be kept on file in the office of the Clerk, and shall be made available for inspection by the Owner of any Bond or a prospective purchaser or owner of any Bond authorized by this Bond Resolution, and upon payment of the reasonable cost of preparing the same, a certified copy of any such amendatory or supplemental ordinance or resolution or of this Bond Resolution will be sent by the Clerk to any such Owner or prospective Owner.

Any and all modifications made in the manner hereinabove provided shall not become effective until there has been filed with the Clerk a copy of the ordinance or resolution of the Issuer hereinabove provided for, duly certified, as well as proof of any required consent to such modification by the Owners of the Bonds then Outstanding. It shall not be necessary to note on any of the Outstanding Bonds any reference to such amendment or modification.

The Issuer shall furnish to the Paying Agent a copy of any amendment to the Bonds or this Bond Resolution which affects the duties or obligations of the Paying Agent under this Bond Resolution.

**Section 1003. Notices, Consents and Other Instruments by Owners.** Any notice, consent, request, direction, approval or other instrument to be signed and executed by the Owners may be in any number of concurrent writings of similar tenor and may be signed or executed by such Owners in person or by agent appointed in writing. Proof of the execution of any such instrument or of the writing appointing any such agent and of the ownership of Bonds, if made in the following manner, shall be sufficient for any of the purposes of this Bond Resolution, and shall be conclusive in favor of the Issuer and the Paying Agent with regard to any action taken, suffered or omitted under any such instrument, namely:

(a) The fact and date of the execution by any person of any such instrument may be proved by a certificate of any officer in any jurisdiction who by law has power to take acknowledgments within such jurisdiction that the person signing such instrument acknowledged before such officer the execution thereof, or by affidavit of any witness to such execution.

(b) The fact of ownership of Bonds, the amount or amounts, numbers and other identification of Bonds, and the date of holding the same shall be proved by the Bond Register.

In determining whether the Owners of the requisite principal amount of Bonds Outstanding have given any request, demand, authorization, direction, notice, consent or waiver under this Bond Resolution, Bonds owned by the Issuer shall be disregarded and deemed not to be Outstanding under this Bond Resolution, except that, in determining whether the Owners shall be protected in relying upon any such request, demand, authorization, direction, notice, consent or waiver, only Bonds which the Owners know to be so owned shall be so disregarded. Notwithstanding the foregoing, Bonds so owned which have been pledged in good faith shall not be disregarded as aforesaid if the pledgee establishes to the satisfaction of the Owners the pledgee's right so to act with respect to such Bonds and that the pledgee is not the Issuer.

**Section 1004. Notices.** Any notice, request, complaint, demand or other communication required or desired to be given or filed under this Bond Resolution shall be in writing, given to the Notice Representative at the Notice Address and shall be deemed duly given or filed if the same shall be: (a) duly mailed by registered or certified mail, postage prepaid; or (b) communicated via fax, with electronic or telephonic confirmation of receipt. Copies of such notices shall also be given to the Paying Agent. The Issuer, the Paying Agent and the Purchaser may from time to time designate, by notice given hereunder to the others of such parties, such other address to which subsequent notices, certificates or other communications shall be sent.

All notices given by: (a) certified or registered mail as aforesaid shall be deemed duly given as of the date they are so mailed; (b) fax as aforesaid shall be deemed duly given as of the date of confirmation of receipt. If, because of the temporary or permanent suspension of regular mail service or for any other reason, it is impossible or impractical to mail any notice in the manner herein provided, then such other form of notice as shall be made with the approval of the Paying Agent shall constitute a sufficient notice.

**Section 1005. Electronic Transactions.** The transactions described in this Bond Resolution may be conducted, and documents related to the Bonds may be sent, received, executed, and stored, by electronic means or transmissions. Copies, telecopies, electronic files and other reproductions of original executed documents (or documents executed by electronic means or transmissions) shall be deemed to be authentic and valid counterparts of such documents for all purposes, including the filing of any claim, action or suit in the appropriate court of law.

**Section 1006. Further Authority.** The officers and officials of the Issuer, including the Mayor and Clerk, are hereby authorized and directed to execute all documents and take such actions as they may deem necessary or advisable in order to carry out and perform the purposes of this Bond Resolution and to make ministerial alterations, changes or additions in the foregoing agreements, statements, instruments and other documents herein approved, authorized and confirmed which they may approve, and the execution or taking of such action shall be conclusive evidence of such necessity or advisability.

**Section 1007. Severability.** If any section or other part of this Bond Resolution, whether large or small, is for any reason held invalid, the invalidity thereof shall not affect the validity of the other provisions of this Bond Resolution.

**Section 1008. Governing Law.** This Bond Resolution shall be governed exclusively by and construed in accordance with the applicable laws of the State.

**Section 1009. Effective Date.** This Bond Resolution shall take effect and be in full force from and after its adoption by the Governing Body.

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**ADOPTED** by the Governing Body on October 20, 2021.

(SEAL)

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Ronald E. Appletoft, Mayor

ATTEST:

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Audrey McClanahan, City Clerk

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**EXHIBIT A  
(FORM OF BONDS)**

**REGISTERED  
NUMBER** \_\_

**REGISTERED  
\$**

**Unless this certificate is presented by an authorized representative of The Depository Trust Company, a New York Corporation (“DTC”), to the Issuer or its agent for registration of transfer, exchange or payment, and any certificate issued is registered in the name of Cede & Co. or in such other name as is requested by an authorized representative of DTC (and any payment is made to Cede & Co. or to such other entity as is requested by an authorized representative of DTC), ANY TRANSFER, PLEDGE OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL inasmuch as the registered owner hereof, Cede & Co., has an interest herein.**

**UNITED STATES OF AMERICA  
STATE OF KANSAS  
COUNTY OF JOHNSON  
CITY OF MISSION  
GENERAL OBLIGATION BOND  
SERIES 2021A**

**Interest  
Rate:**

**Maturity  
Date:**

**Dated  
Date: November 10, 2021**

**CUSIP:**

**REGISTERED OWNER:**

**PRINCIPAL AMOUNT:**

**KNOW ALL PERSONS BY THESE PRESENTS:** That the City of Mission, in the County of Johnson, State of Kansas (the “Issuer”), for value received, hereby acknowledges itself to be indebted and promises to pay to the Registered Owner shown above, or registered assigns, but solely from the source and in the manner herein specified, the Principal Amount shown above on the Maturity Date shown above, unless called for redemption prior to the Maturity Date, and to pay interest thereon at the Interest Rate per annum shown above (computed on the basis of a 360-day year of twelve 30-day months), from the Dated Date shown above, or from the most recent date to which interest has been paid or duly provided for, payable semiannually on March 1 and September 1 of each year, commencing March 1, 2022 (the “Interest Payment Dates”), until the Principal Amount has been paid.

**Method and Place of Payment.** The principal or redemption price of this Bond shall be paid at maturity or upon earlier redemption to the person in whose name this Bond is registered at the maturity or redemption date thereof, upon presentation and surrender of this Bond at the principal office of the Treasurer of the State of Kansas, Topeka, Kansas (the “Paying Agent” and “Bond Registrar”). The interest payable on this Bond on any Interest Payment Date shall be paid to the person in whose name this Bond is registered on the registration books maintained by the Bond Registrar at the close of business on the Record Date(s)

for such interest, which shall be the 15th day (whether or not a business day) of the calendar month next preceding the Interest Payment Date. Such interest shall be payable (a) by check or draft mailed by the Paying Agent to the address of such Registered Owner shown on the Bond Register or at such other address as is furnished to the Paying Agent in writing by such Registered Owner; or (b) in the case of an interest payment to Cede & Co. or any Owner of \$500,000 or more in aggregate principal amount of Bonds by electronic transfer to such Owner upon written notice given to the Bond Registrar by such Registered Owner, not less than 15 days prior to the Record Date for such interest, containing the electronic transfer instructions including the bank, ABA routing number and account number to which such Registered Owner wishes to have such transfer directed. The principal or redemption price of and interest on the Bonds shall be payable in any coin or currency that, on the respective dates of payment thereof, is legal tender for the payment of public and private debts. Interest not punctually paid will be paid in the manner established in the within defined Bond Resolution.

**Definitions.** Capitalized terms used herein and not otherwise defined herein shall have the meanings assigned to such terms in the hereinafter defined Bond Resolution.

**Authorization of Bonds.** This Bond is one of an authorized series of Bonds of the Issuer designated “General Obligation Bonds, Series 2021A,” aggregating the principal amount of \$3,205,000 (the “Bonds”) issued for the purposes set forth in the Ordinance of the Issuer authorizing the issuance of the Bonds and the Resolution of the Issuer prescribing the form and details of the Bonds (collectively, the “Bond Resolution”). The Bonds are issued by the authority of and in full compliance with the provisions, restrictions and limitations of the Constitution and laws of the State of Kansas, including K.S.A. 12-1736 *et seq.*, Charter Ordinance No. 32 of the Issuer, and Article 12, Section 5 of the Constitution of the State of Kansas, all as amended, and all other provisions of the laws of the State of Kansas applicable thereto.

**General Obligations.** The Bonds constitute general obligations of the Issuer payable as to both principal and interest from ad valorem taxes which may be levied without limitation as to rate or amount upon all the taxable tangible property, real and personal, within the territorial limits of the Issuer. The full faith, credit and resources of the Issuer are hereby irrevocably pledged for the prompt payment of the principal of and interest on the Bonds as the same become due.

**Redemption Prior to Maturity.** The Bonds are subject to redemption prior to maturity, as set forth in the Bond Resolution.

**Book-Entry System.** The Bonds are being issued by means of a book-entry system with no physical distribution of bond certificates to be made except as provided in the Bond Resolution. One Bond certificate with respect to each date on which the Bonds are stated to mature or with respect to each form of Bonds, registered in the nominee name of the Securities Depository, is being issued and required to be deposited with the Securities Depository and immobilized in its custody. The book-entry system will evidence positions held in the Bonds by the Securities Depository’s participants, beneficial ownership of the Bonds in authorized denominations being evidenced in the records of such participants. Transfers of ownership shall be effected on the records of the Securities Depository and its participants pursuant to rules and procedures established by the Securities Depository and its participants. The Issuer and the Bond Registrar will recognize the Securities Depository nominee, while the Registered Owner of this Bond, as the owner of this Bond for all purposes, including (i) payments of principal of, and redemption premium, if any, and interest on, this Bond, (ii) notices and (iii) voting. Transfer of principal, interest and any redemption premium payments to participants of the Securities Depository, and transfer of principal, interest and any redemption premium payments to beneficial owners of the Bonds by participants of the Securities Depository will be the responsibility of such participants and other nominees of such beneficial owners. The Issuer and the Bond Registrar will not be responsible or liable for such transfers of payments or for maintaining, supervising or reviewing the records maintained by the Securities Depository, the

Securities Depository nominee, its participants or persons acting through such participants. While the Securities Depository nominee is the owner of this Bond, notwithstanding the provision hereinabove contained, payments of principal of, redemption premium, if any, and interest on this Bond shall be made in accordance with existing arrangements among the Issuer, the Bond Registrar and the Securities Depository.

**Transfer and Exchange.** EXCEPT AS OTHERWISE PROVIDED IN THE BOND RESOLUTION, THIS GLOBAL BOND MAY BE TRANSFERRED, IN WHOLE BUT NOT IN PART, ONLY TO ANOTHER NOMINEE OF THE SECURITIES DEPOSITORY OR TO A SUCCESSOR SECURITIES DEPOSITORY OR TO A NOMINEE OF A SUCCESSOR SECURITIES DEPOSITORY. This Bond may be transferred or exchanged, as provided in the Bond Resolution, only on the Bond Register kept for that purpose at the principal office of the Bond Registrar, upon surrender of this Bond, together with a written instrument of transfer or authorization for exchange satisfactory to the Bond Registrar duly executed by the Registered Owner or the Registered Owner's duly authorized agent, and thereupon a new Bond or Bonds in any Authorized Denomination of the same maturity and in the same aggregate principal amount shall be issued to the transferee in exchange therefor as provided in the Bond Resolution and upon payment of the charges therein prescribed. The Issuer shall pay all costs incurred in connection with the issuance, payment and initial registration of the Bonds and the cost of a reasonable supply of bond blanks. The Issuer and the Paying Agent may deem and treat the person in whose name this Bond is registered on the Bond Register as the absolute owner hereof for the purpose of receiving payment of, or on account of, the principal or redemption price hereof and interest due hereon and for all other purposes. The Bonds are issued in fully registered form in Authorized Denominations.

**Authentication.** This Bond shall not be valid or become obligatory for any purpose or be entitled to any security or benefit under the Bond Resolution until the Certificate of Authentication and Registration hereon shall have been lawfully executed by the Bond Registrar.

**IT IS HEREBY DECLARED AND CERTIFIED** that all acts, conditions, and things required to be done and to exist precedent to and in the issuance of this Bond have been properly done and performed and do exist in due and regular form and manner as required by the Constitution and laws of the State of Kansas, and that the total indebtedness of the Issuer, including this series of bonds, does not exceed any constitutional or statutory limitation.





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**BOND ASSIGNMENT**

FOR VALUE RECEIVED, the undersigned do(es) hereby sell, assign and transfer to

\_\_\_\_\_  
(Name and Address)

\_\_\_\_\_  
(Social Security or Taxpayer Identification No.)

the Bond to which this assignment is affixed in the outstanding principal amount of \$\_\_\_\_\_, standing in the name of the undersigned on the books of the Bond Registrar. The undersigned do(es) hereby irrevocably constitute and appoint \_\_\_\_\_ as agent to transfer said Bond on the books of said Bond Registrar with full power of substitution in the premises.

Dated \_\_\_\_\_

\_\_\_\_\_  
Name

\_\_\_\_\_  
Social Security or  
Taxpayer Identification No.

\_\_\_\_\_  
Signature (Sign here exactly as name(s)  
appear on the face of Certificate)

Signature guarantee:

By \_\_\_\_\_

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**LEGAL OPINION**

The following is a true and correct copy of the approving legal opinion of Gilmore & Bell, P.C., Bond Counsel, which was dated and issued as of the date of original issuance and delivery of such Bonds:

**GILMORE & BELL, P.C.**

2405 Grand Boulevard  
Suite 1100  
Kansas City, Missouri 64108

(PRINTED LEGAL OPINION)

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# RatingsDirect®

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## Summary:

# Mission, Kansas; General Obligation

### Primary Credit Analyst:

Jackie Dove, Centennial + 3037214317; jackie.dove@spglobal.com

### Secondary Contact:

Stephen Doyle, New York + 1 (214) 765 5886; stephen.doyle@spglobal.com

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## Summary:

# Mission, Kansas; General Obligation

### Credit Profile

|   |            |          |
|---|------------|----------|
| US\$3.4 mil GO bonds ser 2021A dtd 11/10/2021 due 09/01/2036            |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | New      |
| Mission GO  |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | Affirmed |
| Mission GO  |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | Affirmed |
| Mission GO rfdg bonds   |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | Affirmed |
| Mission GO sales tax bonds ser 2013B dtd 07/11/2013 due 09/01/2014-2023 |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | Affirmed |

## Rating Action

S&P Global Ratings assigned its 'AA+' long-term rating to the City of Mission, Kan.'s anticipated \$3.4 million series 2021 general obligation (GO) refunding bonds and affirmed its 'AA+' rating on the city's existing GO debt. The outlook is stable.

The city's full-faith-credit-and-resources pledge secures the bonds, payable from unlimited ad valorem taxes on all taxable property within the city. Proceeds from the bonds will be used to make energy conservation upgrades to city buildings in conjunction with the State of Kansas' Facility Conservation Improvement Program (FCIP). Officials expect to pay bond debt service for this issuance through energy cost savings from the program and through the general fund

### Credit overview

In our opinion, Mission benefits from its access to the broad and diverse Kansas City metropolitan statistical area (MSA), particularly given its location near the city center. We expect ongoing economic development will likely continue to support growing sales and property tax bases, Mission's two leading general revenue sources. What we consider strong management, which has resulted in consistently strong operating performance, further supports credit quality. We also expect management will likely be a key factor in successfully navigating ongoing growth challenges and lingering effects from the pandemic (particularly on certain revenue sources). In addition, while we consider the debt profile weak due to somewhat elevated debt service carrying charges, we note this is primarily due to officials planning to retire almost all principal during 10 years, which we view as very rapid amortization and a positive credit factor. We think these fixed costs will likely remain manageable within the city's budget.

The rating also reflects our opinion of the city's:

- Very strong economy, with access to a broad and diverse MSA;

- Strong management, with good financial policies and practices under our Financial Management Assessment (FMA) methodology;
- Adequate budgetary performance, with an operating deficit in the general fund but an operating surplus at the total governmental fund level in fiscal 2020;
- Very strong budgetary flexibility, with an available fund balance in fiscal 2020 of 43% of operating expenditures;
- Very strong liquidity, with total government available cash at 52.5% of total governmental fund expenditures and 2.1x governmental debt service, and access to external liquidity that we consider strong;
- Weak debt and contingent liability profile, with debt service carrying charges at 25.2% of expenditures and net direct debt that is 105.5% of total governmental fund revenue, but rapid amortization, with 93.9% of debt scheduled to be retired in 10 years; and
- Strong institutional framework score.

### **Environmental, social, and governance (ESG) factors**

We assessed the city's ESG risks relative to its economy, management, financial measures, and debt and determined that social and governance risks are in line with our view of the sector standard. While the city's location in the Midwest exposes it to severe weather resulting in tornadoes, wind damage, flooding, or heavy snow and ice during the winter, we believe management has taken steps to mitigate environmental risk by purchasing insurance, which will provide the replacement value for lost buildings and equipment, and by establishing redundancy in facilities. In addition, the city installed generators in the community center to serve as a staging location in the event of an emergency. As result of its very strong fund balance, we believe the city has the means to withstand a short period of disrupted revenues.

## **Stable Outlook**

### **Upside scenario**

Assuming all other credit factors remain stable, we could consider a positive rating action if economic metrics continue to grow to levels more consistent with those of higher-rated peers, management implements and regularly updates long-term financial forecasts, and debt metrics improve.

### **Downside scenario**

We could consider a negative rating action if Mission experiences financial stress, as a result of continued declines in revenue sources from the pandemic or growth-related pressures, resulting in deteriorating budgetary performance and sustained reserve drawdowns below its policy level.

## **Credit Opinion**

### **Very strong economy**

We consider Mission's economy very strong. The city, with an estimated population of 9,809, is in Johnson County in the Kansas City MSA, which we consider to be broad and diverse. The city has a projected per capita EBI of 123% of the national level and per capita market value of \$118,653. Overall, the city's market value grew by 6.8% over the past

year to \$1.2 billion in 2021. The county unemployment rate was 5.1% in 2020.

Mission is a geographically small (2.5 square miles) community in Johnson County, outside of Kansas City and very close to the Missouri border. Mission's tax base is relatively diverse with the 10 leading taxpayers making up 18% of total assessed value (AV). The tax base is mostly real estate and commercial entities. The city's employment base is also diverse. Leading employers include:

- VinSolutions (466), automotive software solutions;
- ScriptPro LLC (428 employees), pharmaceutical automation and robotics;
- Hy-Vee (364), a grocery store;
- AT&T Telecommunications (229), telecommunications provider; and
- Data migration services (200), data conversion and consulting services.

The city saw steady tax base growth in the past five years, with cumulative growth of 20% between fiscal years 2018-2020 as a result of continued growth in the community and supported by the appeal of relative home affordability, good schools, and access to downtown Kansas City. Mission is estimated to be 95% developed, with about 50% of the housing stock in multifamily homes, which have recently been an area for redevelopment. Recent developments include a 200-unit luxury-apartment complex, known as The Locale, which was recently completed and reached 97% occupancy within one year.

### **Strong management**

We view the city's management as strong, with good financial policies and practices under our FMA methodology, indicating financial practices exist in most areas, but that governance officials might not formalize or monitor all of them on a regular basis.

Management evaluates historical data and trends when developing revenue and expenditure estimates for budgeting, and it incorporates upcoming nonrecurring items when possible. Management can amend the budget, as needed, throughout the fiscal year and it provides monthly reports on budget-to-actual results to the city council. Mission develops and annually updates a comprehensive five-year capital improvement plan (CIP) that includes detailed project descriptions and costs and identifies funding. It does not have an independent long-term financial plan that includes multiyear revenue and expense projections.

Management follows state investment guidelines and reports interest earnings to the council monthly. A formal reserve policy requires maintaining sufficient available fund balance to cover, at least, 25% of general fund expenditures. The city's formal debt-management policy outlines allowable debt types and structures, coupled with a goal of retiring, at least, 75% of GO principal during 10 years, which it currently meets; the policy also requires maintaining, at least, 3% present-value savings for refundings. Mission publishes these financial policies and a CIP as part of the annual budget document.

### **Adequate budgetary performance**

Mission's budgetary performance is adequate, in our opinion. In fiscal 2020, the city had deficit operating results in the general fund of 7.8% of expenditures (approximately \$1 million), but a surplus result across all governmental funds of

3.7% of expenditures. The deficit is largely a result of revenues underperforming due to challenges in the pandemic, specifically recreation fees from the community center which serves as a fitness and large-event space and a decline in police fines and fees. In total, revenues were approximately \$2 million under budget, however, offsetting this, were lower-than-budgeted expenditures which contributed to a smaller deficit than anticipated. The city also made regular transfers to the capital improvement fund (\$1.03 million) and to the solid waste fund (\$85,000).

In fiscal 2021 (which ends on Dec. 31, 2021), management anticipates ending the year with a \$86,000 deficit, which is significantly lower than the \$1.1 million in the original budget. Due to salary savings through vacant positions, an increase in property and sales tax revenues, and federal stimulus funds the city was able to adjust its budget. The city received approximately \$330,000 in CARES Act money, which was used for personal protective equipment and modifications for social distancing. In July, the city received the first of two distributions of American Rescue Plan (ARP) funds totaling \$750,000. These funds will primarily be used to offset revenue loss from the community center. The city expects to receive the second distribution of \$750,000 in fiscal 2022.

For fiscal 2022, the adopted budget includes a \$370,000 deficit, but due to conservative budgeting practices (which includes budgeting for full staff averaging \$250,000 in savings annually), is the city will likely break even. Management indicates the importance of adhering to the reserve policy of 25% of expenditures in reserves and still have approximately \$900,000 more than that target.

### **Very strong budgetary flexibility**

Mission's budgetary flexibility is very strong, in our view, with an available fund balance in fiscal 2020 of 43% of operating expenditures, or \$5.4 million. The available fund balance includes \$4.9 million (38.6% of expenditures) in the general fund and \$508,000 (4.0% of expenditures) that is outside the general fund but legally available for operations.

Management consistently maintained, what we consider, very strong reserves during each of the past three fiscal years despite posting an operating deficit in fiscal 2020. Due to multiyear surplus operating results, available fund balance grew to \$5.8 million, or 46% of general fund expenditures, in fiscal 2019 from \$3.5 million, or 32%, in fiscal 2016. With Mission having a formal reserve policy of maintaining, at least, 25% of expenditures in reserve, the council indicates it would like to gradually draw down current fund balance closer to minimum reserves and use some excess reserves on capital projects. We expect the city's budgetary flexibility will likely remain very strong throughout the two-year outlook, supported by a formal reserve policy.

### **Very strong liquidity**

In our opinion, Mission's liquidity is very strong, with total government available cash at 52.5% of total governmental fund expenditures and 2.1x governmental debt service in 2020. In our view, the city has strong access to external liquidity if necessary.

Mission demonstrated its strong access to external liquidity through its GO debt issuance during the past 20 years. Investments are relatively liquid, and it holds investments in demand deposits and the Kansas municipal investment pool. These investments meet state guidelines, and we do not consider them aggressive. Mission does not have any privately placed debt that we could potentially consider a contingent-liquidity risk. Therefore, we expect liquidity will likely remain very strong throughout the two-year outlook.

## Weak debt and contingent liability profile

In our view, Mission's debt and contingent liability profile is weak. Total governmental fund debt service is 25.2% of total governmental fund expenditures, and net direct debt is 105.5% of total governmental fund revenue.

Approximately 93.9% of the direct debt is scheduled to be repaid within 10 years, which we view as a positive credit factor.

Total direct debt is approximately \$19.7 million. Including overlapping debt, the overall net debt burden is \$40.9 million, which is 3.5% of market value. We understand that while officials do not currently plan to issue additional GO debt, they are considering a variety of larger stormwater and street reconstruction projects during the next several years. We expect the debt and contingent liability profile will likely remain weak during the next two years.

### Pension and other postemployment benefits (OPEB)

We do not view pension and OPEB liabilities as an immediate credit pressure for Mission because required contributions represent an affordable share of total governmental expenditures.

The city participates in:

- Kansas Public Employees' Retirement System (KPERs), which is 66.3% funded with a net pension liability equal to \$6.7 million as of December 2020;
- Kansas Police & Firemen's Retirement System (KP&F), as a subset of KPERs;
- Health, dental, and vision insurance for retired employees through a city administered, single-employer, defined-benefit OPEB health-care plan (The city's plan contribution was \$37,000 in fiscal 2019.); and
- City of Mission Money Purchase Plan, administered by the Principal Financial Group, which is available to employees other than those participating in KP&F, matching 2% of eligible employee contributions.

Kansas actuarially determines KPERs' and KP&F's contributions, and Mission has historically funded annual required costs for both in full. The combined required pension and actual OPEB contribution totaled 3.7% of total governmental-fund expenditures in fiscal 2020. The city made its full annual required pension contribution in fiscal 2020. Actuarial assumptions include a 7.75% discount rate, which we view as aggressive, representing market risk and resulting in contribution volatility if KPERs fails to meet assumed investment targets. In addition, contributions will likely grow due to level-payroll funding rather than level-dollar contributions, which would result in consistent payments.

## Strong institutional framework

The institutional framework score for Kansas municipalities with more than \$275,000 in annual gross receipts and more than \$275,000 in GO or revenue bonds outstanding is strong.

## Related Research

- Through The ESG Lens 2.0: A Deeper Dive Into U.S. Public Finance Credit Factors, April 28, 2020
- 2020 Update Of Institutional Framework For U.S. Local Governments

Certain terms used in this report, particularly certain adjectives used to express our view on rating relevant factors, have specific meanings ascribed to them in our criteria, and should therefore be read in conjunction with such criteria. Please see Ratings Criteria at [www.standardandpoors.com](http://www.standardandpoors.com) for further information. Complete ratings information is available to subscribers of RatingsDirect at [www.capitaliq.com](http://www.capitaliq.com). All ratings affected by this rating action can be found on S&P Global Ratings' public website at [www.standardandpoors.com](http://www.standardandpoors.com). Use the Ratings search box located in the left column.

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October 20, 2021

SALE DAY REPORT FOR:

# City of Mission, Kansas

**\$3,205,000 General Obligation Bonds, Series  
2021A (GREEN BONDS)**



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Prepared by:

Ehlers  
3060 Centre Pointe Drive  
Roseville, MN 55113

Bruce Kimmel,  
Senior Municipal Advisor

Nick Anhut,  
Senior Municipal Advisor

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**BUILDING COMMUNITIES. IT'S WHAT WE DO.**

# COMPETITIVE SALE RESULTS

**Purpose:** For the public purpose of funding energy efficient improvements to City facilities, streetlights and traffic signals.

**Rating:** S&P Global Ratings "AA+"

**Number of Bids:** 6

**Low Bidder:** Country Club Bank, Leawood, Kansas

## Comparison from Lowest to Highest Bid: (TIC as bid)

**Low Bid** 1.4899%

**High Bid** 1.6949%

**Interest Difference** \$58,524

## Summary of Sale Results:

|                         |                |
|-------------------------|----------------|
| Principal Amount*:      | \$3,205,000.00 |
| Underwriter's Discount: | \$23,877       |
| Reoffering Premium:     | \$171,731      |
| True Interest Cost:     | 1.4984%        |
| Costs of Issuance:      | \$60,230.00    |
| Yield:                  | 0.25%-1.60%    |
| Total Net P&I           | \$3,756,674    |

**Notes:** State of Kansas - Office of the State Treasurer, Topeka, Kansas will serve as Paying Agent on the Bonds.

The Bonds maturing September 1, 2030 and thereafter are callable September 1, 2029 or any date thereafter.

\* Subsequent to bid opening, the issue size was decreased by \$195,000.

**Closing Date:** November 10, 2021

**City Council Action:** Adopt a resolution awarding the sale of \$3,205,000 General Obligation Bonds, Series 2021A (GREEN BONDS).

**Attachments:** Bid Tabulation  
Sources and Uses of Funds  
Updated Debt Service Schedules  
Rating Report

## BID TABULATION

**\$3,400,000\* General Obligation Bonds, Series 2021A (GREEN BONDS)**

**City of Mission, Kansas**

**SALE: October 20, 2021**

**AWARD: COUNTRY CLUB BANK**

**Rating: S&P Global Ratings "AA+"**

Tax Exempt - Bank Qualified

| NAME OF BIDDER  | MATURITY<br>(September 1) | RATE   | REOFFERING<br>YIELD | PRICE          | NET<br>INTEREST<br>COST | TRUE<br>INTEREST<br>RATE |
|---|---------------------------|--------|---------------------|----------------|-------------------------|--------------------------|
| COUNTRY CLUB BANK<br>Leewood, Kansas                      | 2022                      | 3.000% | 0.250%              | \$3,557,610.70 | \$416,885.97            | 1.4899%                  |
|   | 2023                      | 3.000% | 0.350%              |                |                         |                          |
|   | 2024                      | 3.000% | 0.450%              |                |                         |                          |
|   | 2025                      | 3.000% | 0.550%              |                |                         |                          |
|   | 2026                      | 3.000% | 0.750%              |                |                         |                          |
|   | 2027                      | 2.000% | 0.900%              |                |                         |                          |
|   | 2028                      | 2.000% | 1.050%              |                |                         |                          |
|   | 2029                      | 2.000% | 1.150%              |                |                         |                          |
|   | 2030                      | 2.000% | 1.250%              |                |                         |                          |
|   | 2031                      | 2.000% | 1.300%              |                |                         |                          |
|   | 2032                      | 2.000% | 1.400%              |                |                         |                          |
|   | 2033                      | 2.000% | 1.450%              |                |                         |                          |
|   | 2034                      | 2.000% | 1.500%              |                |                         |                          |
|   | 2035                      | 2.000% | 1.550%              |                |                         |                          |
|   | 2036                      | 2.000% | 1.600%              |                |                         |                          |
| BAIRD<br>Milwaukee, Wisconsin                             |                           |        |                     | \$3,479,387.50 | \$418,690.46            | 1.5140%                  |
| COMMERCE BANK, N.A.<br>Kansas City, Missouri              |                           |        |                     | \$3,499,500.75 | \$423,576.96            | 1.5251%                  |
| BOK FINANCIAL SECURITIES,<br>INC.<br>Milwaukee, Wisconsin |                           |        |                     | \$3,517,540.20 | \$426,726.47            | 1.5315%                  |

\* Subsequent to bid opening the issue size was decreased to \$3,205,000.

Adjusted Price - \$3,352,853.80

Adjusted Net Interest Cost - \$403,820.37

Adjusted TIC - 1.4984%

| <b>NAME OF BIDDER</b>                                    | <b>MATURITY<br/>(September<br/>1)</b> | <b>RATE</b> | <b>REOFFERING<br/>YIELD</b> | <b>PRICE</b>   | <b>NET<br/>INTEREST<br/>COST</b> | <b>TRUE<br/>INTEREST<br/>RATE</b> |
|--|---------------------------------------|-------------|-----------------------------|----------------|----------------------------------|-----------------------------------|
| BERNARDI SECURITIES, INC.<br>Chicago, Illinois           |                                       |             |                             | \$3,578,299.65 | \$441,522.43                     | 1.5757%                           |
| BNY MELLON CAPITAL<br>MARKETS, LLC<br>New York, New York |                                       |             |                             | \$3,586,789.75 | \$475,410.25                     | 1.6949%                           |

# City of Mission, Kansas

\$3,205,000 General Obligation Bonds, Series 2021A  
(Green Bonds)

## Sources & Uses

Dated 11/10/2021 | Delivered 11/10/2021

### Sources Of Funds

|                      |                       |
|----------------------|-----------------------|
| Par Amount of Bonds  | \$3,205,000.00        |
| Reoffering Premium   | 171,731.05            |
| <b>Total Sources</b> | <b>\$3,376,731.05</b> |

### Uses Of Funds

|                                       |                       |
|---------------------------------------|-----------------------|
| Total Underwriter's Discount (0.745%) | 23,877.25             |
| Costs of Issuance                     | 60,230.00             |
| Deposit to Project Construction Fund  | 3,292,623.80          |
| <b>Total Uses</b>                     | <b>\$3,376,731.05</b> |



# City of Mission, Kansas

## \$3,205,000 General Obligation Bonds, Series 2021A (Green Bonds)

### Debt Service Schedule

| Date         | Principal             | Coupon   | Interest            | Total P+I             | Fiscal Total |
|--------------|-----------------------|----------|---------------------|-----------------------|--------------|
| 11/10/2021   | -                     | -        | -                   | -                     | -            |
| 03/01/2022   | -                     | -        | 22,724.17           | 22,724.17             | -            |
| 09/01/2022   | 190,000.00            | 3.000%   | 36,850.00           | 226,850.00            | 249,574.17   |
| 03/01/2023   | -                     | -        | 34,000.00           | 34,000.00             | -            |
| 09/01/2023   | 185,000.00            | 3.000%   | 34,000.00           | 219,000.00            | 253,000.00   |
| 03/01/2024   | -                     | -        | 31,225.00           | 31,225.00             | -            |
| 09/01/2024   | 190,000.00            | 3.000%   | 31,225.00           | 221,225.00            | 252,450.00   |
| 03/01/2025   | -                     | -        | 28,375.00           | 28,375.00             | -            |
| 09/01/2025   | 195,000.00            | 3.000%   | 28,375.00           | 223,375.00            | 251,750.00   |
| 03/01/2026   | -                     | -        | 25,450.00           | 25,450.00             | -            |
| 09/01/2026   | 200,000.00            | 3.000%   | 25,450.00           | 225,450.00            | 250,900.00   |
| 03/01/2027   | -                     | -        | 22,450.00           | 22,450.00             | -            |
| 09/01/2027   | 205,000.00            | 2.000%   | 22,450.00           | 227,450.00            | 249,900.00   |
| 03/01/2028   | -                     | -        | 20,400.00           | 20,400.00             | -            |
| 09/01/2028   | 210,000.00            | 2.000%   | 20,400.00           | 230,400.00            | 250,800.00   |
| 03/01/2029   | -                     | -        | 18,300.00           | 18,300.00             | -            |
| 09/01/2029   | 215,000.00            | 2.000%   | 18,300.00           | 233,300.00            | 251,600.00   |
| 03/01/2030   | -                     | -        | 16,150.00           | 16,150.00             | -            |
| 09/01/2030   | 220,000.00            | 2.000%   | 16,150.00           | 236,150.00            | 252,300.00   |
| 03/01/2031   | -                     | -        | 13,950.00           | 13,950.00             | -            |
| 09/01/2031   | 220,000.00            | 2.000%   | 13,950.00           | 233,950.00            | 247,900.00   |
| 03/01/2032   | -                     | -        | 11,750.00           | 11,750.00             | -            |
| 09/01/2032   | 225,000.00            | 2.000%   | 11,750.00           | 236,750.00            | 248,500.00   |
| 03/01/2033   | -                     | -        | 9,500.00            | 9,500.00              | -            |
| 09/01/2033   | 230,000.00            | 2.000%   | 9,500.00            | 239,500.00            | 249,000.00   |
| 03/01/2034   | -                     | -        | 7,200.00            | 7,200.00              | -            |
| 09/01/2034   | 235,000.00            | 2.000%   | 7,200.00            | 242,200.00            | 249,400.00   |
| 03/01/2035   | -                     | -        | 4,850.00            | 4,850.00              | -            |
| 09/01/2035   | 240,000.00            | 2.000%   | 4,850.00            | 244,850.00            | 249,700.00   |
| 03/01/2036   | -                     | -        | 2,450.00            | 2,450.00              | -            |
| 09/01/2036   | 245,000.00            | 2.000%   | 2,450.00            | 247,450.00            | 249,900.00   |
| <b>Total</b> | <b>\$3,205,000.00</b> | <b>-</b> | <b>\$551,674.17</b> | <b>\$3,756,674.17</b> | <b>-</b>     |

### Yield Statistics

|                                   |             |
|-----------------------------------|-------------|
| Bond Year Dollars                 | \$26,220.71 |
| Average Life                      | 8.181 Years |
| Average Coupon                    | 2.1039636%  |
| Net Interest Cost (NIC)           | 1.5400819%  |
| True Interest Cost (TIC)          | 1.4984278%  |
| Bond Yield for Arbitrage Purposes | 1.2264962%  |
| All Inclusive Cost (AIC)          | 1.7435640%  |

### IRS Form 8038

|                           |             |
|---------------------------|-------------|
| Net Interest Cost         | 1.3825975%  |
| Weighted Average Maturity | 8.138 Years |

# RatingsDirect®

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## Summary:

# Mission, Kansas; General Obligation

### Primary Credit Analyst:

Jackie Dove, Centennial + 3037214317; jackie.dove@spglobal.com

### Secondary Contact:

Stephen Doyle, New York + 1 (214) 765 5886; stephen.doyle@spglobal.com

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## Summary:

# Mission, Kansas; General Obligation

### Credit Profile

|   |            |          |
|---|------------|----------|
| US\$3.4 mil GO bonds ser 2021A dtd 11/10/2021 due 09/01/2036            |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | New      |
| Mission GO  |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | Affirmed |
| Mission GO  |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | Affirmed |
| Mission GO rfdg bonds   |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | Affirmed |
| Mission GO sales tax bonds ser 2013B dtd 07/11/2013 due 09/01/2014-2023 |            |          |
| <i>Long Term Rating</i>   | AA+/Stable | Affirmed |

## Rating Action

S&P Global Ratings assigned its 'AA+' long-term rating to the City of Mission, Kan.'s anticipated \$3.4 million series 2021 general obligation (GO) refunding bonds and affirmed its 'AA+' rating on the city's existing GO debt. The outlook is stable.

The city's full-faith-credit-and-resources pledge secures the bonds, payable from unlimited ad valorem taxes on all taxable property within the city. Proceeds from the bonds will be used to make energy conservation upgrades to city buildings in conjunction with the State of Kansas' Facility Conservation Improvement Program (FCIP). Officials expect to pay bond debt service for this issuance through energy cost savings from the program and through the general fund

### Credit overview

In our opinion, Mission benefits from its access to the broad and diverse Kansas City metropolitan statistical area (MSA), particularly given its location near the city center. We expect ongoing economic development will likely continue to support growing sales and property tax bases, Mission's two leading general revenue sources. What we consider strong management, which has resulted in consistently strong operating performance, further supports credit quality. We also expect management will likely be a key factor in successfully navigating ongoing growth challenges and lingering effects from the pandemic (particularly on certain revenue sources). In addition, while we consider the debt profile weak due to somewhat elevated debt service carrying charges, we note this is primarily due to officials planning to retire almost all principal during 10 years, which we view as very rapid amortization and a positive credit factor. We think these fixed costs will likely remain manageable within the city's budget.

The rating also reflects our opinion of the city's:

- Very strong economy, with access to a broad and diverse MSA;

- Strong management, with good financial policies and practices under our Financial Management Assessment (FMA) methodology;
- Adequate budgetary performance, with an operating deficit in the general fund but an operating surplus at the total governmental fund level in fiscal 2020;
- Very strong budgetary flexibility, with an available fund balance in fiscal 2020 of 43% of operating expenditures;
- Very strong liquidity, with total government available cash at 52.5% of total governmental fund expenditures and 2.1x governmental debt service, and access to external liquidity that we consider strong;
- Weak debt and contingent liability profile, with debt service carrying charges at 25.2% of expenditures and net direct debt that is 105.5% of total governmental fund revenue, but rapid amortization, with 93.9% of debt scheduled to be retired in 10 years; and
- Strong institutional framework score.

### **Environmental, social, and governance (ESG) factors**

We assessed the city's ESG risks relative to its economy, management, financial measures, and debt and determined that social and governance risks are in line with our view of the sector standard. While the city's location in the Midwest exposes it to severe weather resulting in tornadoes, wind damage, flooding, or heavy snow and ice during the winter, we believe management has taken steps to mitigate environmental risk by purchasing insurance, which will provide the replacement value for lost buildings and equipment, and by establishing redundancy in facilities. In addition, the city installed generators in the community center to serve as a staging location in the event of an emergency. As result of its very strong fund balance, we believe the city has the means to withstand a short period of disrupted revenues.

## **Stable Outlook**

### **Upside scenario**

Assuming all other credit factors remain stable, we could consider a positive rating action if economic metrics continue to grow to levels more consistent with those of higher-rated peers, management implements and regularly updates long-term financial forecasts, and debt metrics improve.

### **Downside scenario**

We could consider a negative rating action if Mission experiences financial stress, as a result of continued declines in revenue sources from the pandemic or growth-related pressures, resulting in deteriorating budgetary performance and sustained reserve drawdowns below its policy level.

## **Credit Opinion**

### **Very strong economy**

We consider Mission's economy very strong. The city, with an estimated population of 9,809, is in Johnson County in the Kansas City MSA, which we consider to be broad and diverse. The city has a projected per capita EBI of 123% of the national level and per capita market value of \$118,653. Overall, the city's market value grew by 6.8% over the past

year to \$1.2 billion in 2021. The county unemployment rate was 5.1% in 2020.

Mission is a geographically small (2.5 square miles) community in Johnson County, outside of Kansas City and very close to the Missouri border. Mission's tax base is relatively diverse with the 10 leading taxpayers making up 18% of total assessed value (AV). The tax base is mostly real estate and commercial entities. The city's employment base is also diverse. Leading employers include:

- VinSolutions (466), automotive software solutions;
- ScriptPro LLC (428 employees), pharmaceutical automation and robotics;
- Hy-Vee (364), a grocery store;
- AT&T Telecommunications (229), telecommunications provider; and
- Data migration services (200), data conversion and consulting services.

The city saw steady tax base growth in the past five years, with cumulative growth of 20% between fiscal years 2018-2020 as a result of continued growth in the community and supported by the appeal of relative home affordability, good schools, and access to downtown Kansas City. Mission is estimated to be 95% developed, with about 50% of the housing stock in multifamily homes, which have recently been an area for redevelopment. Recent developments include a 200-unit luxury-apartment complex, known as The Locale, which was recently completed and reached 97% occupancy within one year.

### **Strong management**

We view the city's management as strong, with good financial policies and practices under our FMA methodology, indicating financial practices exist in most areas, but that governance officials might not formalize or monitor all of them on a regular basis.

Management evaluates historical data and trends when developing revenue and expenditure estimates for budgeting, and it incorporates upcoming nonrecurring items when possible. Management can amend the budget, as needed, throughout the fiscal year and it provides monthly reports on budget-to-actual results to the city council. Mission develops and annually updates a comprehensive five-year capital improvement plan (CIP) that includes detailed project descriptions and costs and identifies funding. It does not have an independent long-term financial plan that includes multiyear revenue and expense projections.

Management follows state investment guidelines and reports interest earnings to the council monthly. A formal reserve policy requires maintaining sufficient available fund balance to cover, at least, 25% of general fund expenditures. The city's formal debt-management policy outlines allowable debt types and structures, coupled with a goal of retiring, at least, 75% of GO principal during 10 years, which it currently meets; the policy also requires maintaining, at least, 3% present-value savings for refundings. Mission publishes these financial policies and a CIP as part of the annual budget document.

### **Adequate budgetary performance**

Mission's budgetary performance is adequate, in our opinion. In fiscal 2020, the city had deficit operating results in the general fund of 7.8% of expenditures (approximately \$1 million), but a surplus result across all governmental funds of

3.7% of expenditures. The deficit is largely a result of revenues underperforming due to challenges in the pandemic, specifically recreation fees from the community center which serves as a fitness and large-event space and a decline in police fines and fees. In total, revenues were approximately \$2 million under budget, however, offsetting this, were lower-than-budgeted expenditures which contributed to a smaller deficit than anticipated. The city also made regular transfers to the capital improvement fund (\$1.03 million) and to the solid waste fund (\$85,000).

In fiscal 2021 (which ends on Dec. 31, 2021), management anticipates ending the year with a \$86,000 deficit, which is significantly lower than the \$1.1 million in the original budget. Due to salary savings through vacant positions, an increase in property and sales tax revenues, and federal stimulus funds the city was able to adjust its budget. The city received approximately \$330,000 in CARES Act money, which was used for personal protective equipment and modifications for social distancing. In July, the city received the first of two distributions of American Rescue Plan (ARP) funds totaling \$750,000. These funds will primarily be used to offset revenue loss from the community center. The city expects to receive the second distribution of \$750,000 in fiscal 2022.

For fiscal 2022, the adopted budget includes a \$370,000 deficit, but due to conservative budgeting practices (which includes budgeting for full staff averaging \$250,000 in savings annually), is the city will likely break even. Management indicates the importance of adhering to the reserve policy of 25% of expenditures in reserves and still have approximately \$900,000 more than that target.

### **Very strong budgetary flexibility**

Mission's budgetary flexibility is very strong, in our view, with an available fund balance in fiscal 2020 of 43% of operating expenditures, or \$5.4 million. The available fund balance includes \$4.9 million (38.6% of expenditures) in the general fund and \$508,000 (4.0% of expenditures) that is outside the general fund but legally available for operations.

Management consistently maintained, what we consider, very strong reserves during each of the past three fiscal years despite posting an operating deficit in fiscal 2020. Due to multiyear surplus operating results, available fund balance grew to \$5.8 million, or 46% of general fund expenditures, in fiscal 2019 from \$3.5 million, or 32%, in fiscal 2016. With Mission having a formal reserve policy of maintaining, at least, 25% of expenditures in reserve, the council indicates it would like to gradually draw down current fund balance closer to minimum reserves and use some excess reserves on capital projects. We expect the city's budgetary flexibility will likely remain very strong throughout the two-year outlook, supported by a formal reserve policy.

### **Very strong liquidity**

In our opinion, Mission's liquidity is very strong, with total government available cash at 52.5% of total governmental fund expenditures and 2.1x governmental debt service in 2020. In our view, the city has strong access to external liquidity if necessary.

Mission demonstrated its strong access to external liquidity through its GO debt issuance during the past 20 years. Investments are relatively liquid, and it holds investments in demand deposits and the Kansas municipal investment pool. These investments meet state guidelines, and we do not consider them aggressive. Mission does not have any privately placed debt that we could potentially consider a contingent-liquidity risk. Therefore, we expect liquidity will likely remain very strong throughout the two-year outlook.

### Weak debt and contingent liability profile

In our view, Mission's debt and contingent liability profile is weak. Total governmental fund debt service is 25.2% of total governmental fund expenditures, and net direct debt is 105.5% of total governmental fund revenue.

Approximately 93.9% of the direct debt is scheduled to be repaid within 10 years, which we view as a positive credit factor.

Total direct debt is approximately \$19.7 million. Including overlapping debt, the overall net debt burden is \$40.9 million, which is 3.5% of market value. We understand that while officials do not currently plan to issue additional GO debt, they are considering a variety of larger stormwater and street reconstruction projects during the next several years. We expect the debt and contingent liability profile will likely remain weak during the next two years.

### Pension and other postemployment benefits (OPEB)

We do not view pension and OPEB liabilities as an immediate credit pressure for Mission because required contributions represent an affordable share of total governmental expenditures.

The city participates in:

- Kansas Public Employees' Retirement System (KPERs), which is 66.3% funded with a net pension liability equal to \$6.7 million as of December 2020;
- Kansas Police & Firemen's Retirement System (KP&F), as a subset of KPERs;
- Health, dental, and vision insurance for retired employees through a city administered, single-employer, defined-benefit OPEB health-care plan (The city's plan contribution was \$37,000 in fiscal 2019.); and
- City of Mission Money Purchase Plan, administered by the Principal Financial Group, which is available to employees other than those participating in KP&F, matching 2% of eligible employee contributions.

Kansas actuarially determines KPERs' and KP&F's contributions, and Mission has historically funded annual required costs for both in full. The combined required pension and actual OPEB contribution totaled 3.7% of total governmental-fund expenditures in fiscal 2020. The city made its full annual required pension contribution in fiscal 2020. Actuarial assumptions include a 7.75% discount rate, which we view as aggressive, representing market risk and resulting in contribution volatility if KPERs fails to meet assumed investment targets. In addition, contributions will likely grow due to level-payroll funding rather than level-dollar contributions, which would result in consistent payments.

### Strong institutional framework

The institutional framework score for Kansas municipalities with more than \$275,000 in annual gross receipts and more than \$275,000 in GO or revenue bonds outstanding is strong.

## Related Research

- Through The ESG Lens 2.0: A Deeper Dive Into U.S. Public Finance Credit Factors, April 28, 2020
- 2020 Update Of Institutional Framework For U.S. Local Governments

|                           |              |                  |
|---------------------------|--------------|------------------|
| <b>City of Mission</b>    | Item Number: | 6a.              |
| <b>INFORMATIONAL ITEM</b> | Date:        | October 20, 2021 |
| <b>ADMINISTRATION</b>     | From:        | Brian Scott      |

Informational items are intended to provide updates on items where limited or no discussion is anticipated by the Committee.

**RE:** Rezoning, Preliminary Plat, Preliminary Development Plat, and Special Use Permit for the Construction and Operation of a Sanitary Sewer Pump Station at 5701 Roe Avenue

**DETAILS:** Johnson County Wastewater (JCW) has operated a sanitary sewer pump station on a parcel of property at the far eastern end of the city since the late 1950s. The pump station is located on what is essential right-of-way controlled by the Kansas Department of Transportation (KDOT) for Shawnee Mission Parkway and the entry / exit ramps from Johnson Drive. The parcel is addressed as 5701 Roe Avenue.

JCW has undertaken a comprehensive update of its facilities within its service area. They are currently expanding and improving the Tomahawk Creek Treatment Plant (I-435 and Mission Road) in Leawood. Once this project is completed (spring 2022), they will begin working on expanding and improving the Nelson Treatment Plant located in Mission (4800 Nall Avenue). Before work at the Nelson Plant can begin, JCW must make improvements to facilities that feed into it, including demolition of the existing 60-year-old pump station on Roe, and construction of a new, larger pump station on the same site.

Because JCW is making a long-term investment on the site, they have been in negotiations with KDOT to purchase the property. This will entail filing a preliminary plat with the Johnson County Recorder of Deeds, rezoning the property, approval of a preliminary development plan for the site, and approval of a special use permit.

These items were presented to the Planning Commission at their meeting on September 27, 2021. The Planning Commission voted to recommend to the City Council approval of the rezoning of the property, the preliminary plat, the preliminary development plan, and the special use permit. Staff will provide a more detailed summary of the project at the Community Development Committee meeting, and this item is set for consideration by the City Council at the regularly scheduled meeting on October 20, 2021..

**CFAA CONSIDERATIONS/IMPACTS: N/A**

|                                 |   |
|---------------------------------|---|
| Related Statute/City Ordinance: | Chapter 400 of the Mission Municipal Code |
| Line Item Code/Description:     | N/A                                       |
| Available Budget:               | N/A                                       |

**CITY OF MISSION, KANSAS**

**ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE APPROVING ZONING, A PRELIMINARY PLAT, A PRELIMINARY DEVELOPMENT PLAN, AND A SPECIAL USE PERMIT WITH CONDITIONS AND STIPULATIONS FOR THE CONSTRUCTION AND OPERATION OF A SANITARY SEWER PUMP STATION AT 5701 ROE AVENUE IN THE CITY OF MISSION, KANSAS – JOHNSON COUNTY WASTEWATER, APPLICANT (PLANNING COMMISSION CASE # 21-07)**

**WHEREAS**, The property at 5701 Roe Avenue is currently designated right-of-way for the Shawnee Mission Parkway and Johnson Drive interchange, and is owned and maintained by the Kansas Department of Transportation, and thus is not zoned; and

**WHEREAS**, Johnson County Wastewater has operated a sanitary sewer pump station on this property since the late 1950's; and

**WHEREAS**, Johnson County Wastewater is undertaking a comprehensive improvement program of its sanitary sewer facilities throughout its service district; and

**WHEREAS**, This improvement program entails, among other projects, the reconstruction of the sanitary sewer pump station located at 5701 Roe Avenue; and

**WHEREAS**, Johnson County Wastewater is in the process of negotiating the purchase of a portion of the right-of-way at 5701 Roe Avenue from the Kansas Department of Transportation in order to ensure the long-term control of this location; and

**WHEREAS**, Securing the property and reconstructing the sanitary sewer pump station will entail a zoning of the property and approval of a preliminary plat, a preliminary development plan and a special use permit; and

**WHEREAS**, Application (Case# 21-07) was presented to the Mission Planning Commission on September 27, 2021, at which time a public hearing was held by the Commission so that all interested parties may present their comments concerning the application; and

**WHEREAS**, Notice of said public hearing was published in The Legal Record on August 31, 2021, and sent certified mail to property owners and occupants within 200 feet of the subject property; and

**WHEREAS**, At the conclusion of the public hearing, the Planning Commission took the application under consideration and voted 7-0 to recommend approval of the application to the Mission City Council.

**NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF MISSION, KANSAS:**

**Section 1. Zoning of Property** – Pursuant to Chapters 405, 410 and 440 of the Mission Municipal Code, the property herein described as:

Commencing at the southwest corner of the Northeast Quarter of said Section 9; thence N01°55'25"W, along the west line thereof, 610.16 feet; thence departing said west line, N88°04'35"E, 50.00 feet to the Point of Beginning; thence N01°55'25"W, 262.53 feet; thence northeasterly along a curve to the right being tangent to the last described course and having a radius of 32.50 feet, an arc distance of 60.78 feet; thence southeasterly along a curve to the right being compound to the last described curve and having a radius of 441.00 feet, an arc distance of 140.00 feet; thence southeasterly along a curve to the left being reverse to the last described curve and having a radius of 605.00 feet, an arc distance of 60.83 feet; thence S37°25'35"W, 257.76 feet; thence S88°04'35"W, 55.00 feet to the Point of Beginning.

Note: The bearings in the description are based on Grid North, Kansas State Plane Coordinate System, NAD83

shall be zoned as "MP" Industrial Park District and all provisions of said zoning district shall apply with exceptions as noted in the Preliminary Development Plan, Planning Commission Case# 21-07 approved as part of this ordinance and on file with the Community Development of the City of Mission, 6090 Woodson, Mission, Kansas 66202, and expressed further in Sections 4 and 7 of this Ordinance.

**Section 2. Approval of Preliminary Plat** – Pursuant to Section 440.220 of the Mission Municipal Code, approval of a Preliminary Plat for property as herein described in Section 1 of this ordinance and further depicted in Planning Commission Case #21-07 is hereby granted.

**Section 3. Approval of Preliminary Development Plan** – Pursuant to Section 440.175 of the Mission Municipal Code, permission is hereby granted to use the property as herein described in Section 1 of this ordinance in the manner set forth in the Preliminary Development Plan, Planning Commission Case # 21-07 and in accordance with Chapter 410, Article III, Section 410.120 of the Mission Municipal Code, subject to the stipulations set forth Section 4 of this ordinance and subject to all other laws and regulations:

**Section 4. Conditions and Stipulations of the Preliminary Development Plan**  
The Preliminary Development Plan referenced in Section 3 of this ordinance is hereby approved and adopted subject to the following stipulations:

1. The City shall grant a waiver of the required minimum lot area of 10 acres.

2. The City shall grant a deviation of 25 feet from the required minimum front yard setback of 50 feet.
3. The City shall grant a waiver of the required one parking space per 500 square feet of total floor area.
4. In lieu of a bioretention basin to capture stormwater runoff, the applicant shall provide a hydrodynamic flow separator at the low point of the surfaced drive area and shall be responsible for routine maintenance and cleaning of the separator to the satisfaction of the City.
5. A memorandum of understanding will be prepared and entered between Johnson County Wastewater and the City outlining provisions for the construction of a public sidewalk along Roe Avenue in front of the property. Such memorandum of understanding shall be finalized prior to approval of the final development plan.
6. The applicant will work with City staff to that the fence surrounding the site is in conformance with the Johnson Drive Design Guidelines when submitted for final development plan approval.
7. The applicant will work with staff to ensure trees are provided near the drive surfaces when submitted for final development plan approval.
8. A final development plan will be submitted to the City and approved by the Planning Commission prior to the issuance any building permits.
9. A Floodplain Development Permit and all other associated permits are required prior to construction.
10. The applicant must obtain all approvals from the Consolidated Fire District No. 2 prior to issuance of the building permit.
11. Demolition plans for the existing pump station must be submitted to the City for review and approval prior to the issuance of any demolition permit.
12. The applicant must submit a site plan and construction documents to the City of Mission for review and approval prior to issuance of the building permit.
13. The applicant must obtain all approvals from Johnson County Wastewater and Johnson County Water District #1 prior to the issuance of the building permit.
14. The applicant shall be responsible for any damage to City infrastructure, including roads, curbs, and sidewalks and must repair said infrastructure to like or better condition prior to the issuance of a final certificate of occupancy.
15. The applicant will provide a two (2) year warranty bond on any public infrastructure installed as part of this Preliminary Development Plan. Said bond(s) will be placed on file with the City of Mission Community Development Department.
16. This Preliminary Plan approval shall lapse in five (5) years from its effective date if construction on the project has not begun or if such construction is being diligently pursued; provided, however, that the applicant may request a hearing before the City Council to request an extension of this time period. The City

Council may grant an extension for a maximum of 12 months for good cause by the applicant.

**Section 5. Special Use Permit Granted** – Pursuant to Chapter 445, Article III Section 445.180 through Section 445.230 a Special Use Permit is hereby granted to use the property as herein described in Section 1 of this Ordinance in a manner set forth in Section 6 of this Ordinance.

**Section 6. Use and Duration of Property** – Real property as herein described in Section 1 of this Ordinance shall hereafter be used as sanitary sewer pump station for an indefinite period of time.

This property is to zoned “MP” Industrial Park District. All zoning ordinances or zoning regulations of the City of Mission, Kansas affecting the use of the real property described herein in Section 1 of this Ordinance which are inconsistent with this ordinance are here made inapplicable to said property for said period of time.

**Section 7. Conditions and Stipulations of the Special Use Permit** – The Special Use Permit granted in Section 5 and 6 of this Ordinance is hereby made contingent upon the performance and observation of the following additional and supplementary regulations, stipulations, conditions, and restrictions, of which the violation of any hereafter enumerated will be a supplementary basis for revocation in addition to those specified in Chapter 410, Article III, Section 410.120 of the Mission Municipal Code, to wit:

1. All necessary and applicable permits and approvals for the construction of a sanitary sewer pump station shall be obtained from the Kansas Department of Health and Environment (KDHE) prior to construction.
2. Once constructed, the sanitary sewer pump station shall be operated and maintained in accordance with all applicable permits and licenses issued by the KDHE and any other applicable state or federal regulatory agency for as long as the sanitary pump station is operational.
3. An odor control system sufficient to eliminate any odors detectable from outside of the pump station shall be in place and operational for as long as the sanitary pump station is operational.

**Section 8. Effective Date** – This ordinance shall take effect and be in force from and after its publication as required by law.

**Passed by the City Council this 20<sup>th</sup> day of October 2021.**

**Approved by the Mayor this 20<sup>th</sup> day of October 2021.**

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**Ronald E. Appletoft, Mayor**

**ATTEST:**

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**Audrey M. McClanahan, City Clerk**

**APPROVED AS TO FORM:**

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**David Martin, City Attorney**

**STAFF REPORT**  
**Planning Commission Meeting September 27, 2021**

**AGENDA ITEM NO.:** 2

**PROJECT NUMBER / TITLE:** Case # 21-07

**REQUEST:** Application for Rezoning, Approval of a Preliminary Plat, Approval of Preliminary Development Plan, and Approval of Special Use Permit for Operation of a Sanitary Sewer Pump Station

**LOCATION:** 5701 Roe Avenue

**PROPERTY OWNER:**  
Kansas Department of Transportation  
700 SW Harrison Street  
Topeka, KS 66603

**APPLICANT:**  
Johnson County Wastewater  
4800 Nall Ave.  
Mission, KS 66202

**STAFF CONTACT:** Brian Scott, Assistant City Administrator

**ADVERTISEMENT:** August 31, 2021 - The Legal Record

**PUBLIC HEARING:** September 27, 2021 - Planning Commission



### **Property Information**

The subject property is a parcel located on the very eastern edge of Mission. It is bounded by Roe Avenue on the west, the on-ramp to Shawnee Mission Parkway on the north, and Shawnee Mission Parkway itself on the southeast. The parcel is owned by the Kansas Department of Transportation (KDOT) and is designated as right-of-way for Shawnee Mission Parkway and the corresponding on/off ramps.

The Rock Creek flows through the site. Because this site is at the low point of the Rock Creek watershed, Johnson County Wastewater (JCW) has operated a small sanitary sewer pump station on this site since the late 1950s. Wastewater collected within the watershed flows to the pump station via a gravity sewer system, then is pumped to the Nelson treatment plant on the north end of Mission for processing.

### **Surrounding properties are zoned and used as follows:**

- **West:** “MXD” Planned Mixed-Use District, site of the Gateway development.
- **North:** “CPO” Planned Office Building, Sunflower Medical Group Office Building located in Roeland Park.
- **East:** Not Zoned, Kansas Department of Transportation Right-of-Way located in Fairway
- **South:** “R-1” Single Family Residential, single-family homes located in Fairway.

### **Comprehensive Plan Future Land Use Recommendation for this area:**

The subject property is identified as right-of-way.

### **All surrounding properties are currently developed:**

Surrounding properties are developed (or will be developed) with a mix of attached and freestanding buildings for commercial uses, and single-family residential properties.

### **Project Background**

As stated above, this parcel is currently right-of-way owned and maintained by KDOT for Shawnee Mission Parkway, which is part of the state highway system. JCW has been operating a small sanitary sewer (or wastewater) pump station on a portion of this parcel since the late 1950's.

JCW has recently undertaken a comprehensive update of its wastewater facilities throughout its service area. The most notable of these projects is a significant expansion to the Tomahawk Creek wastewater treatment plant near Mission Road and I-435 in Leawood. When completed early next year, this expansion and update will double the capacity for treatment of wastewater from parts of Leawood, Olathe, Overland Park and Prairie Village that are within the Tomahawk Creek watershed and the Indian Creek watershed.

JCW will then begin working on updates and expansion of the Nelson wastewater treatment plant, which is located at the end of Nall Avenue in the northeastern corner of Mission. This plant treats wastewater from Mission, Roeland Park, Fairway, Prairie Village, northern Overland Park and Merriam, and was originally built in the 1940's.

Before work can begin on the Nelson treatment plant, updates must be made to existing facilities that feed into the treatment plant. To this end, JCW intends to demolish the existing pump station on the Roe Avenue site and build a new pump station. The new pump station would have greater capacity and be able to support the Nelson treatment plant during reconstruction when portions of the plant will be taken off-line.

Because of the sizeable investment that will be made, and the long-term commitment to this facility, JCW has been in discussions with KDOT to purchase that portion of the parcel where the pump station will be located. The portion is shown below as the hatched area northwest of Shawnee Mission Parkway, east of Roe Avenue, and south of the on-ramp to Shawnee Mission Parkway.



A plat of the portion to be purchased will need to be created and recorded with the County Recorder of Deeds. Zoning will need to be established as well, and a preliminary development plan (PDP) and special use permit for the operation of the pump station will need to be approved by the City.

JCW has submitted an application to the City of Mission for approval of

- 1) Zoning
- 2) Preliminary Plat
- 3) Preliminary Development Plan
- 4) Special Use Permit

particular to the portion of the parcel that will be purchased.

All four of these items will require a public hearing before the Planning Commission. All of these items will

be considered under one public hearing to be held before the Planning Commission at the regularly scheduled meeting on September 27, 2021. This staff report will go through the provisions for each item.

**Code Review: Consideration of Zoning (Section 440.140):**

Section 440.140 of the Mission Municipal Code provides the process for rezoning of property. Section 440.140 (E) states:

“In considering any application for rezoning or a special use permit, the Planning Commission and the City Council shall give consideration to the criteria stated below to the extent they are pertinent to the particular application. In addition, the Planning Commission and City Council may consider other factors which may be relevant to a particular application.

- 1) The character of the neighborhood.

- 2) The zoning and uses of nearby properties and the extent to which the proposed use would be in harmony with such zoning and uses.
- 3) The suitability of the property for the uses to which it has been restricted under the applicable zoning district regulations.
- 4) The extent to which approval of the application would detrimentally affect nearby properties.
- 5) The length of time the property has remained vacant as zoned.
- 6) The relative benefit to the public health, safety and welfare by retaining applicable restrictions on the property as compared to the destruction of the value of the property or hardship to the owner association with denying its request.
- 7) The Master Plan or Comprehensive Plan.
- 8) The extent to which the proposed use would adversely affect the capacity or safety of that portion of the road network influenced by the use or present parking problems in the vicinity of the property.
- 9) The recommendation of the professional staff.
- 10) The extent to which utilities and services, including, but not limited to, sewers, water service, Police and fire protection and parks and recreation facilities, are available and adequate to serve the proposed use.
- 11) The extent to which the proposed use would create excessive stormwater runoff, air pollution, water pollution, noise pollution or other environmental harm.
- 12) The extent to which there is a need for the use in the community.
- 13) The economic impact of the proposed use on the community.
- 14) The ability of the applicant to satisfy any requirements applicable to the specific use imposed pursuant to the zoning district regulations.

Staff proposes that the portion of the parcel under consideration be zoned as "M-P" Industrial Park.

Section 410.120 - "MP" Industrial Park District – of the Mission Municipal Code provides the standards for the "MP" Industrial Park District.

A) Permitted Uses. In District "MP", no building, structure, land or premises shall be used and no building or structure shall be hereafter erected, constructed, reconstructed, moved or altered except for one (1) or more of the following uses:

1. Manufacturing, processing, fabrication or assembling of any commodity except junk or salvage.
2. Warehousing, wholesaling and storage of any commodity except junk or salvage.
3. Office laboratories and business functionally related to the use permitted.
4. Truck loading and unloading facilities related to the use permitted.
5. Public utility facilities.
6. Restaurant and automatic food vending machines (no alcohol).
7. Structures and uses clearly accessory and necessary to the normal operation of the above uses, including sign identification.
8. Required parking and landscaping.

B) Performance Standards.

1. All operations shall be conducted within a fully enclosed building.
  2. All storage of materials, products or equipment shall be within a fully enclosed building or in an open yard so screened that the materials, products or equipment are not visible at eye level (five (5) feet zero (0) inches) within three hundred (300) feet of the property.
  3. No use shall be permitted or so operated to produce or emit:
    - a. Smoke or particulate matter of a Number 1 or darker on the Ringlemann Chart.
    - b. Dust, fly ash, odor, radiation, gases, heat, glare or other effects which are injurious to humans.
    - c. Vibration or concussion perceptible without instruments at the property line.
    - d. In no case shall the noise level exceed seventy (70) db (A) at repeated intervals or for a sustained length of time measured at the property line.
    - e. Industrial wastes shall be of such a quantity and nature as to not overburden the public sewer disposal facilities or to cause odor and unsanitary effects beyond the property line.
  4. Truck traffic shall have direct access to major thoroughfares. Major thoroughfares are streets designated by the Public Works Department as roads accommodating or planned to accommodate four (4) lane traffic. Docks shall be located wholly within buildings out of view. Truck areas shall be totally screened from residential view with dense evergreens, masonry walls, berms and the like.
- C. Height And Area. In District "MP", the height of buildings and the minimum dimension of lots and yards shall be as follows in Subsections (D) through (G); the minimum park size being ten (10) acres. (For exceptions see Section 415.010.) The Planning Commission and City Council shall have the discretion to grant relief from the ten (10) acre requirement upon a showing of good cause.
- D. Height. No building shall exceed two (2) stories or thirty-five (35) feet in height. A structure other than a building may be erected to a height not to exceed sixty (60) feet provided such structure is set back from all property lines a distance equal to or greater than its height and is approved by the Planning Commission.
- E. Front Yard. A front yard of not less than fifty (50) feet shall be provided.
- F. Side Yard. A side yard shall be provided on each side of a building or unit group of buildings, the total of which side yard shall be not less than forty (40) feet and no side yard shall be less than ten (10) feet. A side yard abutting a street in the case of a corner lot or a side yard abutting a zoned residential lot shall be not less than twenty (20) feet.
- G. Rear Yard. A rear yard of not less than fifteen (15) feet shall be provided.

- H. Parking And Loading Regulations. Each establishment shall provide sufficient off-street parking space for all employees, customers, visitors and others who may spend time at the establishment during working hours. Such parking area shall be permanently surfaced with hot-mix asphaltic concrete, a plant mix bituminous or cement-treated base or Portland cement concrete and shall be located on the premises. Not less than one (1) space for each five hundred (500) square feet of total floor area shall be provided. Each establishment shall also provide adequate loading space within a building or in a side or rear yard in such a way that all storage, standing and maneuvering of trucks shall be off the public right-of-way. No portion of a parking area or loading space, except the necessary drives, shall be located closer than thirty (30) feet to a public street. No portion of a paved area shall be closer than six (6) feet to a property line.
- I. All exterior alterations or improvements to buildings (excluding exact replacements or color), new building permits, site plan reviews and rezoning/special use permit applications shall be in accordance with the interim Community Wide Design Guidelines. The intent of the Design Guidelines is to promote site-specific, contextual buildings that incorporate mixed uses and pedestrian friendly commercial activity. For this reason, whenever a conflict exists between the zoning ordinance and design guidelines requirements for setbacks, height, landscaping or signage, the design guidelines shall be adhered to.
- J. Plan Approval. Prior to the issuance of any building permit for development, redevelopment, alteration, replacement or repair site plan approval shall be obtained as provided for in Chapter 440

**Code Analysis for Proposed Zoning:**

The intent of the “MP” Industrial Park zoning is to allow for light industrial uses within a very controlled and defined area and under certain conditions so that there is little to no impact on surrounding properties. The performance standards require a large lot area, deep front yard and side yards, activity contained to the interior of a structure with little to no noise, vibration, light or other forms of pollution emitting from the site, and landscaping and architectural elements in conformance with the code and the Johnson Drive Design Guidelines.

This parcel of land is surrounded by other uses including mixed-use commercial to the west, office use to the north, and residential use to the south. Permitting an industrial use such as a sanitary sewer pump station must be done with the intent of protecting these surrounding properties.

Furthermore, in recommending this zoning, the elements specified in Section 440.140 are being met.

1. The character of the neighborhood.

*There is variety of land uses surrounding the property including mix-use to the*

*east, office to the north, and residential to the south. This zoning application will provide the best means for permitting the use in a controlled manner that has the least impact on the surrounding uses and is most compatible with those uses.*

2. The zoning and uses of nearby properties and the extent to which the proposed use would be in harmony with such zoning and uses.

*This zoning will require that the uses be conducted in an enclosed building, and little to no noise, vibration, or other types of pollution. This zoning requires that truck traffic to and from the site be directly on an arterial road that is four lanes, which Roe Avenue is. This zoning has provisions for landscaping and materials of the buildings. All of these provisions allow the proposed use on the site to be in harmony with the surrounding properties.*

3. The suitability of the property for the uses to which it has been restricted under the applicable zoning district regulations.

*The parcel in question is small and has topography that would not lend itself well to more traditional development. It is also at the low point of the watershed and near a creek, which makes it ideal for a public utility use, but not much else.*

4. The extent to which approval of the application would detrimentally affect nearby properties.

*As stated above the suggested zoning district will provide controls that reduce or eliminate any potential detrimental effects that a permitted use may have to the surrounding properties. And, the proposed use is already on the site, and has been for nearly 60 years without any impact to surrounding property.*

5. The length of time the property has remained vacant as zoned.

*The property has never been zoned. It has served as right-of-way for Shawnee Mission Parkway and the site of a sanitary sewer pump station for the past 60 years. This proposed zoning will only ensure that measures are taken to reduce any impact that the proposed use may have on surrounding properties.*

6. The relative benefit to the public health, safety and welfare by retaining applicable restrictions on the property as compared to the destruction of the value of the property or hardship to the owner association with denying its request.

*Again, the proposed use is already in existence on the site and has been for nearly 60 years and without any zoning. The proposed zoning of the property to "MP" Industrial Park will only go to ensure that the property conforms to the high standards of the zoning that are intended to protect the surrounding*

*properties.*

7. The Master Plan or Comprehensive Plan.

*The Comprehensive Land Use Plan and the East Gateway Master Plan are both silent to this parcel.*

8. The extent to which the proposed use would adversely affect the capacity or safety of that portion of the road network influenced by the use or present parking problems in the vicinity of the property.

*The proposed use will have little to impact on traffic or parking. Truck deliveries of chemicals to the proposed sanitary sewer pump station will be once a week. The pump station will be unmanned, thus there is no need for parking as no employees will be working there on a daily basis.*

9. The recommendation of the professional staff.

*Saff recommends that this is the appropriate zoning.*

10. The extent to which utilities and services, including, but not limited to, sewers, water service, police and fire protection and parks and recreation facilities, are available and adequate to serve the proposed use.

*The proposed use for the site is a sanitary sewer pump station. Sewer service, water, and electricity to the site are all adequate. Police and fire protection are adequate.*

11. The extent to which the proposed use would create excessive stormwater runoff, air pollution, water pollution, noise pollution or other environmental harm.

*The proposed use has already been operating on the site for nearly 60 years without any significant environmental impact. The proposed zoning and site plan will further ensure that any potential issues of this nature are addressed in the development process.*

12. The extent to which there is a need for the use in the community.

*There is great need for a sanitary sewer pump station and wastewater management facilities in the community.*

13. The economic impact of the proposed use on the community.

*The proposed zoning and use will ensure the future economic viability of the area.*

14. The ability of the applicant to satisfy any requirements applicable to the specific

use imposed pursuant to the zoning district regulations.

*The applicant is highly regulated utility that operates under stringent state and federal requirements, and to the industry standards. The proposed use is permitted within the "MP" Industrial Park zoning.*

For these reasons, staff recommends that the parcel as defined in the application be zoned to "MP" Industrial Park.

### **Code Review: Consideration of Preliminary Plats (440.220)**

Section 440.220 of the Mission Municipal Code provides that preliminary plats shall be approved by the Planning Commission if it determines that:

1. The proposed preliminary plat conforms to the requirements of this Title, the applicable zoning district regulations and any other applicable provisions of this Code, subject only to acceptable rule exceptions.
2. The subdivision or platting represents an overall development pattern that is consistent with the Master Plan and the Official Street Map.
3. The plat contains a sound, well-conceived parcel and land subdivision layout which is consistent with good land planning and site engineering design principles.
4. The spacing and design of proposed curb cuts and intersection locations is consistent with good traffic engineering design and public safety considerations.
5. All submission requirements have been satisfied.

### **Code Analysis for Proposed Preliminary Plat:**

The applicant is requesting approval of a preliminary plat so that the purchase of the property from KDOT may be recorded with the Johnson County Recorder of Deeds. Once the sale goes through, an application for a final plat will be submitted to the City for approval prior to actual recording.

In review the requirements of Section 440.220, staff has determined the following:

1. The proposed preliminary plat conforms to the requirements of this Title, the applicable zoning district regulations and any other applicable provisions of this Code, subject only to acceptable rule exceptions.

*The proposed preliminary plat conforms to the provisions of the "MP" Industrial Park zoning as specified above, with the exception of the minimum lot size being 10 acres and the minimum setbacks for the front yard. The applicant is requesting a deviation from these zoning requirements, which staff is*

*supportive of.*

2. The subdivision or platting represents an overall development pattern that is consistent with the Master Plan and the Official Street Map.

*The proposed plat and intended use of the property are consistent with the adjacent street pattern. The Comprehensive Land Use Plan is silent to the use of this particular parcel of property.*

3. The plat contains a sound, well-conceived parcel and land subdivision layout which is consistent with good land planning and site engineering design principles.

*Staff concurs that the proposed plat contains a sound, well-conceived parcel and land subdivision layout which with good planning and site engineering design principles.*

4. The spacing and design of proposed curb cuts and intersection locations is consistent with good traffic engineering design and public safety considerations.

*The spacing and design of proposed curb cuts and intersection locations is consistent with good traffic engineering design and public safety considerations. These are concurrent with the use that that is on the property right now. Utility easements on the plat are all in keeping with good engineering practices and are acceptable to the City.*

5. All submission requirements have been satisfied.

Staff recommends the that Preliminary Plat of the “Rock Creek Pump Station, Lot 1” be approved with the following conditions:

1. The portion of the last sentence of the easement dedication, which states “however, building foundations can be constructed within said easement below grade” shall be removed with submission of the final plat.
2. A waiver be granted from the requirement of the “MP” Industrial Park zoning district that lots be a minimum of 10 acres in size.
3. Final designation of easements for storm water will need to be identified and filed with the Johnson County Recorder of Deeds once the project is complete.

### **Code Review: Consideration Preliminary Development Plan**

Section 440.160 of the Mission Municipal Code provides the standards and criteria for consideration of site plans. Section 440.160 (D) provides the following:

The site plan shall be approved if it is determined that the following criteria are satisfied:

1. The site is capable of accommodating the building(s), parking areas and drives with appropriate open space.
2. The plan provides for safe and easy ingress, egress and internal traffic circulation.
3. The plan is consistent with good land planning and site engineering design principles.
4. An appropriate degree of harmony will prevail between the architectural quality of the proposed building(s) and the surrounding neighborhood.
5. The plan represents an overall development pattern that is consistent with the Comprehensive Plan and other adopted planning policies.
6. Right-of-way for any abutting thoroughfare has been dedicated pursuant to the provisions of Chapter 455.

When reviewing an application for a preliminary development plan, consideration is given to whether the application is compatible with the designated zoning district and the overall comprehensive land use plan of the City.

#### **Code Analysis for Proposed Preliminary Development Plan**

As has been stated previously, the applicant is proposing to demolish an existing sanitary sewer pump station that has been on the site for nearly 60 years and build a larger pump station in its place. The property is currently not zoned. Staff has recommended that the property be zoned "MP" Industrial Park District. Code analysis for consistency of the proposed preliminary development plan will be based on this zoning. Please see the zoning analysis above for the provisions of this zoning district.

#### Permitted Used

Public utility facilities are a permitted use in the "MP" Industrial Park zoning district.

#### Performance Standards

The operations of the pump station are contained mostly to the interior of the pump station structure itself. There are chemical storage tanks that are exterior to the building, but within something of an open-air yard that is screened on all three sides by a brick wall that is the same as the structure itself.

There will be no activities that emit noise or vibration or any kind of particulate into the air. The only pollution of concern may be odor emitting from the operation of the pump station, but this will be addressed through an odor control system that will be a part of the pump station operations.

Though not proposed at this time, there could be a need in the future for a generator to be located at the pump-station to provide power for pump operations when electrical service is lost during severe storm events. The operation of generator would only be during emergency events or routine testing.

Truck traffic will be limited to weekly chemical deliveries to the pump station and routine solid waste collection. Chemical deliveries could be more frequent if load demand at the pump station increases due to a prolong wet weather event or down-

time at the Nelson treatment plant itself. A sewer jet/vacuum truck will also come to the pump station occasionally to clean the wet wells and remove excess flow during heavy rain events, if any occurs.

The station will not be manned on a daily basis, so there is no need for employee parking on the site, and there will not be a daily flow of traffic to and from the pump station. There will be no impact to amount of traffic on the existing road system due to the pump station activities.

The pump station is located on Roe Avenue which is a four-lane arterial road capable of handling truck traffic.

#### Lot Area Coverage

The “MP” Industrial Park zoning requires that lots be a minimum of 10 acres in size, however, “the Planning Commission and City Council shall have the discretion to grant relief from the ten (10) acre requirement upon a showing of good cause.”

Staff would support the granting of relief for this requirement. The intent is to provide some distance between the proposed industrial use and surrounding properties.

Though the proposed lot for the intended use is just under one acre in size, it will be buffered by Shawnee Mission Parkway to the southeast, the Rock Creek to the east, entrance and exit ramps to the north and Roe Avenue to the west providing some distance from surrounding properties.

#### Height

The pump station building will be 25 feet in total height from the lowest elevation on site. This is less than the 35 feet restriction of this district.

#### Front Yard Set Back

The zoning standards for this district requires a front-yard setback of no less than 50 feet. The southeast corner of the new pump station will be setback from the back of the curb by a distance of approximately 55 feet. The distance from the property line, however, will be approximately 35 feet. There is an electrical building on site that is situated approximately 25 feet from the property line.

Staff would recommend that a deviation of 25 feet be granted from the required setback of 50 feet.

#### Side Yard Setback

The zoning code stipulates, “A side yard shall be provided on each side of a building or unit group of buildings, the total of which side yard shall be not less than forty (40) feet and no side yard shall be less than ten (10) feet. A side yard abutting a street in the case of a corner lot or a side yard abutting a zoned residential lot shall be not less than twenty (20) feet.” The side yard for proposed pump station meets this stipulation.

### Rear Yard Setback

The zoning code stipulates, “a rear yard of not less than fifteen (15) feet shall be provided.” There will be 15-foot storm water easement between the back of the building and the property line.

### Parking Requirements

The zoning code stipulates, “Each establishment shall provide sufficient off-street parking space for all employees, customers, visitors and others who may spend time at the establishment during working hours. Such parking area shall be permanently surfaced with hot-mix asphaltic concrete, a plant mix bituminous or cement-treated base or Portland cement concrete and shall be located on the premises. Not less than one (1) space for each five hundred (500) square feet of total floor area shall be provided. Each establishment shall also provide adequate loading space within a building or in a side or rear yard in such a way that all storage, standing and maneuvering of trucks shall be off the public right-of-way. No portion of a parking area or loading space, except the necessary drives, shall be located closer than thirty (30) feet to a public street. No portion of a paved area shall be closer than six (6) feet to a property line.”

Driving area of the proposed development will be asphalt or concrete depending on what is most affordable at time of construction.

The driving area of the proposed development will be large enough to receive chemical deliveries from an 18-wheel tank truck that can pull off the roadway into the site and maneuver to the point of deposit.

The proposed pump station is unmanned, meaning there will not be a regular employee(s) working at the station on a daily basis. JCW crews will come to the pump station on occasion to address issues and do routine maintenance. Thus, there is not a need for a designated parking area. The applicant is seeking a waiver of this requirement, and staff is supportive of this.

### Stormwater Management

In the initial design of the site, a bioretention cell was proposed for the eastside of the property, between the Rock Creek stormwater culvert and the wet well of the pump station. The City’s third-party engineering firm, GBA, reviewed this proposal and suggested that the detention cell be removed entirely. Due to the road infrastructure in the area (Shawnee Mission Parkway) and the construction the new pump station, the soil will be very compacted, and thus it will be difficult to grow the natural plantings

necessary to allow the storm water to percolate. In addition, the hydrostatic pressure created by the stormwater being retained for a period of time will create pressure on the sides of the wet well structure as well as the Rock Creek storm water culvert that runs through the property.

Thus, the applicant is proposing a hydrodynamic flow separator at the low point of the surfaced drive area to capture stormwater and separate out impurities before being released into the City's storm sewer system. This separator will need to be cleaned out on a routine basis by JCW, which can be easily done with one of their jet/vacuum trucks.

#### Landscaping and Building Materials

A landscaping plan has been submitted with the application for the preliminary development plan. The plan purposes a cluster of trees at the corner of Roe Avenue and entrance ramp on to Shawnee Mission Parkway, and then trees planted in front of the pump station. Trees include a variety of maples, saw tooth oak, linden, and elm. All of the trees are in accordance with the list of Preferred Trees of Northeast Kansas as developed by the Kansas Forest Service.

As with stormwater, this site is challenged by its limited size and infrastructure that is within the small area. Staff recommended to the applicant that it avoid planting large trees along the entrance ramp to Shawnee Mission Parkway as the root system could potentially put pressure on the Rock Creek stormwater culvert. This area is also being reserved for the City to be able to access the culvert in the future, so trees are not desirable here. Likewise, tree roots can interfere with the various mains that will service the pump station.

The applicant is proposing that the finish material on the pump station be a traditional brick, reddish brown in color. This is in keeping with the Johnson Drive Design Guidelines.

There will be wrought iron style fence that runs the length of the front of the building with a gate across the driveway. The fence material is in keeping with the design guidelines and will provide an attractive "outward face" to the property along Roe. A black pvc coated chain link fence is proposed for the rear and sides of the property. The fence will be 8 feet in height.

City code requires that sidewalks be provided with any development of property. The applicant is requesting that a sidewalk be considered as part of a larger road resurfacing project between the City of Mission and Fairway that is scheduled in the

near future. A memorandum of understanding is being drafted to reflect this and sometime of cost sharing arraignment for this work.

Staff recommends approval of the preliminary development plan with the following stipulations:

1. The City shall grant a waiver of the required minimum lot area of 10 acres.
2. The City shall grant a deviation of 15 feet from the required minimum front yard setback of 50 feet.
3. The City shall grant a waiver of the required one parking space per 500 square feet of total floor area.
4. In lieu of a bioretention basin to capture stormwater runoff, the applicant shall provide a hydrodynamic flow separator at the low point of the surfaced drive area, and shall be responsible for routine maintenance and cleaning of the separator to the satisfaction of the City.
5. A memorandum of understanding will be prepared and entered into outlining provisions for the construction of a public sidewalk along Roe Avenue in front of the property. Such memorandum of understanding shall be finalized prior to approval of the final development plan.
6. A final development plan will be submitted to the City and approved by the Planning Commission prior to the issuance any building permits.
7. A Floodplain Development Permit and all other associated permits are required prior to construction.
8. The applicant must obtain all approvals from the Consolidated Fire District No. 2 prior to issuance of the building permit.
9. Demolition plans for the existing pump station must be submitted to the City for review and approval prior to the issuance of any demolition permit.
10. The applicant must submit a site plan and construction documents to the City of Mission for review and approval prior to issuance of the building permit.
11. The applicant must obtain all approvals from Johnson County Wastewater and Johnson County Water District #1 prior to the issuance of the building permit.
12. The applicant shall be responsible for any damage to City infrastructure, including roads, curbs, and sidewalks and must repair said infrastructure to like or better condition prior to the issuance of a final certificate of occupancy.
13. The applicant will provide a two (2) year warranty bond on any public infrastructure installed as part of this Preliminary Development Plan. Said bond(s) will be placed on file with the City of Mission Community Development Department.
14. This Preliminary Plan approval shall lapse in five (5) years from its effective date if construction on the project has not begun or if such construction is being diligently pursued; provided, however, that the applicant may request a hearing before the City Council to request an extension of this time period.

The City Council may grant an extension for a maximum of 12 months for good cause by the applicant.

**Code Review: Consideration of a Special Use Permit:**

Chapter 445 of the Mission Municipal Code pertains to the issuance of a Special Use Permit for particular uses in particular locations. Section 445.180 permits Sewage Pumping Stations to be in any zoned district of the city with the application of a Special Use Permit.

Section 445.190 (C) of the Mission Municipal Code provides, “Special uses may be approved by action of the City Council after recommendation from the Planning Commission. Special uses may be approved with conditions including, but not limited to, the following:

1. Requirements for special yards, open spaces, density, buffers, fences, walls and screening.
2. The installation of landscaping and maintenance.
3. Provisions for erosion control.
4. Limitations on ingress and egress movements into and out of the site and traffic circulation.
5. Limitation on signage.
6. Limitation on hours of operation and other characteristics of operation.
7. Conditions specifically listed under the individual special use.
8. Other conditions deemed necessary to ensure compatibility with surrounding land uses.

**Code Analysis for Proposed Special Use Permit**

As stipulated in Section 445.180, a Special Use Permit for the operation of a sanitary sewer pump station is required.

Many of the conditions for granting the special use permit as outlined in Section 445.190 (C) are already provided for in the zoning regulations for “MP” Industrial Park district.

Staff would recommend the following additional conditions be specified in the Special Use Permit:

1. All necessary and applicable permits and approvals for the construction of a sanitary sewer pump station shall be obtained from the Kansas Department of Health and Environment (KDHE) prior to construction.
2. Once constructed, the sanitary sewer pump station shall be operated and maintained in accordance with all applicable permits and licenses issued by the KDHE and any other applicable state or Federal regulatory agency for as long as the sanitary pump station is operational.
3. An odor control system sufficient to eliminate any odors detectable from outside of the pump station shall be in place and operational for as long as the

sanitary pump station is operational.

Staff would further recommend that the term of the Special Use Permit be for as long as the Sanitary Sewer Pump Station is operational.

### **Staff Recommendation**

Staff recommends that the Planning Commission recommend approval to the City Council Case # 21-07 – approval of an application for rezoning, preliminary plat, preliminary development plan, and special use permit to operate a Sanitary Sewer Pump Station on property addressed as 5701 Roe Avenue in the City of Mission, with the following conditions:

### **Zoning:**

The parcel described as:

All that part of the Northeast Quarter of Section 9, Township 12 South, Range 25 East, City of Mission, Johnson County, Kansas, more particularly described as follows:

(Note: The bearings in the following description are based on Grid North, Kansas State Plane Coordinate System, NAD83)

Commencing at the southwest corner of the Northeast Quarter of said Section 9; thence N01°55'25"W, along the west line thereof, 610.16 feet; thence departing said west line, N88°04'35"E, 50.00 feet to the Point of Beginning; thence N01°55'25"W, 262.53 feet; thence northeasterly along a curve to the right being tangent to the last described course and having a radius of 32.50 feet, an arc distance of 60.78 feet; thence southeasterly along a curve to the right being compound to the last described curve and having a radius of 441.00 feet, an arc distance of 140.00 feet; thence southeasterly along a curve to the left being reverse to the last described curve and having a radius of 605.00 feet, an arc distance of 60.83 feet; thence S37°25'35"W, 257.76 feet; thence S88°04'35"W, 55.00 feet to the Point of Beginning

Shall be designated as "MP" Industrial Park zoning district and recorded on the City's zoning map as such.

### **Preliminary Plat**

A preliminary plat to be known as "Rock Creek Pump Station, Lot 1" shall be approved as presented with the following conditions:

1. The portion of the last sentence of the easement dedication, which states "however, building foundations can be constructed within said easement below grade" shall be removed with submission of the final plat.
2. A waiver be granted from the requirement of the "MP" Industrial Park zoning district that lots be a minimum of 10 acres in size.
3. Final designation of easements for storm water will need to be identified and filed with the Johnson County Recorder of Deeds once the project is complete.

## Preliminary Development Plan

A preliminary development plan for the construction and operation of sanitary sewer pump station be granted with the following conditions:

1. The City shall grant a waiver of the required minimum lot area of 10 acres.
2. The City shall grant a deviation of 25 feet from the required minimum front yard setback of 50 feet.
3. The City shall grant a waiver of the required one parking space per 500 square feet of total floor area.
4. In lieu of a bioretention basin to capture stormwater runoff, the applicant shall provide a hydrodynamic flow separator at the low point of the surfaced drive area, and shall be responsible for routine maintenance and cleaning of the separator to the satisfaction of the City.
5. A memorandum of understanding will be prepared and entered into outlining provisions for the construction of a public sidewalk along Roe Avenue in front of the property. Such memorandum of understanding shall be finalized prior to approval of the final development plan.
6. A final development plan will be submitted to the City and approved by the Planning Commission prior to the issuance of any building permits.
7. A Floodplain Development Permit and all other associated permits are required prior to the issuance of any building permit.
8. The applicant must obtain all approvals from the Consolidated Fire District No. 2 prior to issuance of the building permit.
9. The applicant must obtain all approvals from Johnson County Wastewater and Johnson County Water District #1 prior to the issuance of the building permit.
10. Demolition plans for the existing pump station must be submitted to the City for review and approval prior to the issuance of any demolition permit.
11. The applicant must submit a site plan and construction documents to the City of Mission for review and approval prior to issuance of the building permit.
12. The applicant shall be responsible for any damage to City infrastructure, including roads, curbs, and sidewalks and must repair said infrastructure to like or better condition prior to the issuance of a final certificate of occupancy.
13. The applicant will provide a two (2) year warranty bond on any public infrastructure installed as part of this Preliminary Development Plan. Said bond(s) will be placed on file with the City of Mission Community Development Department.
14. This Preliminary Plan approval shall lapse in five (5) years from its effective date if construction on the project has not begun or if such construction is being diligently pursued; provided, however, that the applicant may request a hearing before the City Council to request an extension of this time period. The City

Council may grant an extension for a maximum of 12 months for good cause by the applicant.

### Special Use Permit

A special use permit for the operation of a sanitary sewer pump station shall be granted for as long as the pump station is in operation and with the following conditions:

1. All necessary and applicable permits and approvals for the construction of a sanitary sewer pump station shall be obtained from the Kansas Department of Health and Environment (KDHE) prior to construction.
2. Once constructed, the sanitary sewer pump station shall be operated and maintained in accordance with all applicable permits and licenses issued by the KDHE and any other applicable state or Federal regulatory agency for as long as the sanitary pump station is operational.
3. An odor control system sufficient to eliminate any odors detectable from outside of the pump station shall be in place and operational for as long as the sanitary pump station is operational.

### Planning Commission Action

The Planning Commission voted 7-0 to recommend to the City Council approval of Case# 21-07 with the conditions cited in the staff report and fencing material is reviewed with staff Johnson Drive Design Guidelines and that trees/landscaping be added to mitigate the hardscape surface areas of the parking lot.

### City Council Action

*Will be considered by the City Council at the October 20, 2021 meeting.*

APPROVED BY:  
JOHNSON COUNTY WASTEWATER  
JOHNSON COUNTY, KANSAS

CHIEF ENGINEER

DATE



HDR Engineering, Inc.  
KS. STATE CERTIFICATE  
OF AUTHORITY #E-167

3741 NE TROON DRIVE  
LEE'S SUMMIT, MO 64064  
(816)-347-1100

# JOHNSON COUNTY KANSAS

## Wastewater



Contract Drawings For

# Johnson County Wastewater Rock Creek Pump Station Preliminary Development Plan

Project No.  
10256802

September 10, 2021  
Submittal Set

### INDEX OF DRAWINGS

#### (00)-GENERAL

00G000 COVER SHEET  
00G001 GENERAL LEGEND AND ABBREVIATIONS  
00V101 PRELIMINARY PLAT

#### (02)-STANDARD DETAILS

02C501 CIVIL DETAILS  
02C502 CIVIL DETAILS

#### (10)-SITE PLANNING

10X101 SITE DEMOLITION PLAN  
10C101 OVERALL SITE PLAN  
10C102 ENLARGED SITE PLAN  
10C103 GRADING AND DRAINAGE PLAN  
10C104 TRUCK TURNING RADIUS PLAN  
10L101 LANDSCAPING PLAN

#### (20)-PUMP STATION

20A101 PLAN  
20A201 ELEVATIONS

### LOCATION MAP

NOT TO SCALE  
JOHNSON COUNTY, KANSAS  
NW QUARTER OF SECTION 13,  
TOWNSHIP 13 S, RANGE 254 E



Know what's below.  
Call before you dig.

### UTILITIES / AGENCIES:

|   |              |
|---|--------------|
| JOHNSON COUNTY WASTEWATER*              | 913-715-8500 |
| JOHNSON COUNTY WATER DISTRICT NO. 1     | 913-895-5700 |
| EVERGY*                                 | 913-556-2200 |
| SPECTRUM*                               | 913-451-5858 |
| KANSAS GAS SERVICE                      | 800-794-4780 |
| MISSION PUBLIC WORKS                    | 913-676-8350 |
| JOHNSON COUNTY PUBLIC WORKS DEPARTMENT  | 913-782-2640 |
| JOHNSON COUNTY ENVIRONMENTAL DEPARTMENT | 913-715-6900 |

\* INDICATES UTILITIES CONTACTED BY 811

**PRELIMINARY  
NOT FOR CONSTRUCTION  
OR RECORDING**

| MATERIALS IN PLAN/SECTION  | GENERAL SYMBOLOGY   | IDENTIFICATION SYMBOLOGY   | EQUIPMENT DESIGNATIONS | UTILITY / CIVIL SYMBOLOGY |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
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| <p><b>ACOUSTICAL CEILING TILE (SECTION)</b></p> <p><b>ASPHALT (PLAN OR SMALL-SCALE SECTION)</b></p> <p><b>ASPHALT (LARGE-SCALE SECTION)</b></p> <p><b>BATT INSULATION (SECTION)</b></p> <p><b>BRICK MASONRY (PLAN AND/OR SECTION)</b></p> <p><b>CHECKERED PLATE (PLAN)</b></p> <p><b>CONCRETE (PLAN AND/OR SECTION)</b></p> <p><b>CONCRETE MASONRY (PLAN AND/OR SECTION)</b></p> <p><b>DEMOLITION (PLAN AND/OR SECTION)</b></p> <p><b>EARTH (SECTION)</b></p> <p><b>FILTER POINT MAT (PLAN)</b></p> <p><b>FINISHED WOOD (SECTION)</b></p> <p><b>GLULAM LUMBER (SECTION)</b></p> <p><b>GRANULAR FILL (SECTION)</b></p> <p><b>GRATING (SECTION)</b></p> <p><b>GRATING (PLAN)</b></p> <p><b>GROUT (SECTION)</b></p> <p><b>GYPSON BOARD (SECTION)</b></p> <p><b>METAL (SECTION)</b></p> <p><b>ORIENTED STRAND BOARD (SECTION)</b></p> <p><b>PARTICLE BOARD (SECTION)</b></p> <p><b>PLYWOOD (LARGE-SCALE SECTION)</b></p> <p><b>PLYWOOD (SMALL-SCALE SECTION)</b></p> <p><b>PRECAST CONCRETE (PLAN AND/OR SECTION)</b></p> <p><b>RIGID INSULATION (SECTION)</b></p> <p><b>RIPRAP (PLAN AND/OR SECTION)</b></p> <p><b>SAND (SECTION)</b></p> <p><b>SOD (SECTION)</b></p> <p><b>WEEP JOINT MORTAR PROTECTION SYSTEM (SECTION)</b></p> <p><b>WOOD - CONTINUOUS (SECTION)</b></p> <p><b>WOOD BLOCKING (SECTION)</b></p> | <p><b>NORTH ARROW</b></p> <p><b>PLAN</b><br/>1/4" = 1'-0"<br/>PLAN TITLE</p> <p><b>FULL BUILDING SECTION CUT MARKER</b></p> <p><b>SECTION CUT MARKER</b></p> <p><b>SECTION</b><br/>3/8" = 1'-0"<br/>SECTION TITLE</p> <p><b>DETAIL MARKER</b><br/>FOR REFERENCING DETAILS INCLUDED IN DRAWING SET.</p> <p><b>DETAIL MARKER</b><br/>FOR REFERENCING DETAILS BOUND IN SPECIFICATIONS OR SEPARATE VOLUME.</p> <p><b>DETAIL</b><br/>1/4" = 1'-0"<br/>DETAIL TITLE</p> <p><small>* EXCEPTIONS WHERE THE SHEET NUMBER IS REPLACED BY A DASH (-).<br/>1) FOR COMMON DETAILS, SECTIONS, ELEVATIONS OR DETAILS THAT ARE CUT OR CALLED OUT ON MULTIPLE SHEETS.<br/>2) SECTIONS, ELEVATIONS OR DETAILS THAT ARE LOCATED ON THE SAME SHEET THEY ARE CUT OR CALLED OUT ON.</small></p> | <p><b>SINGLE ELEVATION OR PHOTO MARKER</b></p> <p><b>MULTIPLE ELEVATION OR PHOTO MARKER</b></p> <p><b>ELEVATION</b><br/>3" = 1'-0"<br/>ELEVATION TITLE</p> <p><b>ARCHITECTURAL</b></p> <table border="0"> <tr><td>ROOM NAME</td><td>XX-XX</td><td>ROOM NUMBER</td></tr> <tr><td>DOOR NUMBER</td><td>XXX<br/>X</td><td></td></tr> <tr><td>COLUMN GRID LINE</td><td>(A)</td><td></td></tr> <tr><td>WALL TYPE</td><td>[X]</td><td></td></tr> <tr><td>WINDOW TYPE</td><td>[X]</td><td></td></tr> <tr><td>LOUVER</td><td>[X]</td><td></td></tr> <tr><td>ACCESSORY, FURNITURE, AND MISCELLANEOUS EQUIPMENT IDENTIFIER</td><td>[X]</td><td></td></tr> </table> <p><b>KEY NOTE DESIGNATION</b></p> <p>KEY NOTE NUMBER</p> <p><b>GENERAL LINE SYMBOLOGY</b></p> <table border="0"> <tr><td>[---]</td><td>4-HOUR FIRE RATED WALL</td></tr> <tr><td>[---]</td><td>3-HOUR FIRE RATED WALL</td></tr> <tr><td>[---]</td><td>2-HOUR FIRE RATED WALL</td></tr> <tr><td>[---]</td><td>1-HOUR FIRE RATED WALL</td></tr> <tr><td>[---]</td><td>COLUMN GRID LINE/CENTERLINE</td></tr> </table> | ROOM NAME              | XX-XX                     | ROOM NUMBER | DOOR NUMBER | XXX<br>X |  | COLUMN GRID LINE | (A) |  | WALL TYPE | [X] |  | WINDOW TYPE | [X] |  | LOUVER | [X] |  | ACCESSORY, FURNITURE, AND MISCELLANEOUS EQUIPMENT IDENTIFIER | [X] |  | [---] | 4-HOUR FIRE RATED WALL | [---] | 3-HOUR FIRE RATED WALL | [---] | 2-HOUR FIRE RATED WALL | [---] | 1-HOUR FIRE RATED WALL | [---] | COLUMN GRID LINE/CENTERLINE | <p><b>PIPING</b></p> <p><b>EXAMPLE</b></p> <p>36"-PLE</p> <p><b>EQUIPMENT IDENTIFICATION</b></p> <p><b>ALTERNATIVE 1</b></p> <p><b>EXAMPLE</b></p> <p>NPWP2023</p> <p><b>ALTERNATIVE 2</b></p> <p><b>EXAMPLE</b></p> <p>NPWP-23</p> | <table border="0"> <tr><td>AC</td><td>AIR COMPRESSOR</td></tr> <tr><td>ADIF</td><td>AERATION BASIN DIFFUSERS</td></tr> <tr><td>ADR</td><td>AIR DRYER</td></tr> <tr><td>AHU</td><td>AIR HANDLING UNIT</td></tr> <tr><td>AR</td><td>AIR RECEIVER</td></tr> 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ELEMENT</td></tr> <tr><td>FEXT</td><td>FIRE EXTINGUISHER</td></tr> <tr><td>FLTR</td><td>FILTER</td></tr> <tr><td>GA</td><td>GATE</td></tr> <tr><td>GV</td><td>GATE VALVE</td></tr> <tr><td>GEN</td><td>GENERATOR</td></tr> <tr><td>CL</td><td>COLLECTOR</td></tr> <tr><td>CN</td><td>CYCLONE</td></tr> <tr><td>GTC</td><td>GRIT CLASSIFIER</td></tr> <tr><td>GTW</td><td>GRIT WASHER/COMPACTOR</td></tr> <tr><td>HO</td><td>HOIST</td></tr> <tr><td>HB</td><td>HOSE BIBB</td></tr> <tr><td>HP</td><td>HIGH VOLTAGE (250V TO 600V) PANELBOARD</td></tr> <tr><td>HPT</td><td>HYDRO PNEUMATIC TANK</td></tr> <tr><td>HY</td><td>HYDRANT</td></tr> <tr><td>KG</td><td>KNIFE GATE</td></tr> <tr><td>L</td><td>LAVATORY</td></tr> <tr><td>LCP</td><td>LIGHTING CONTROL PANEL</td></tr> <tr><td>LP</td><td>LIGHTING PANEL, LOW VOLTAGE (&lt;250V)</td></tr> <tr><td>LVR</td><td>LOUVER</td></tr> <tr><td>MAU</td><td>MAKEUP AIR UNIT</td></tr> <tr><td>MCC</td><td>MOTOR CONTROL CENTER</td></tr> <tr><td>MLRP</td><td>MIXED LIQUOR RECYCLE PUMP</td></tr> <tr><td>MOD</td><td>MOTOR OPERATED DAMPER</td></tr> <tr><td>MSB</td><td>MAIN SWITCHBOARD</td></tr> <tr><td>MSCN</td><td>MANUAL SCREEN</td></tr> <tr><td>MX</td><td>MIXER</td></tr> <tr><td>MU</td><td>MIXING UNIT</td></tr> <tr><td>NPWP</td><td>NON-POTABLE WATER PUMP</td></tr> <tr><td>P</td><td>PUMP</td></tr> <tr><td>PCM</td><td>PRIMARY CLARIFIER MECHANISM</td></tr> <tr><td>PF</td><td>PARSHALL FLUME</td></tr> <tr><td>POMU</td><td>POLYMER MIXING UNIT</td></tr> <tr><td>POTS</td><td>POLYMER TOTE SCALE</td></tr> <tr><td>PSMP</td><td>PORTABLE SAMPLER</td></tr> <tr><td>PLC</td><td>PROGRAMMABLE LOGIC CONTROLLER</td></tr> <tr><td>PV</td><td>PLUG VALVE</td></tr> <tr><td>RDT</td><td>ROTARY DRUM THICKENER</td></tr> <tr><td>RPP</td><td>RECYCLE PRESSURIZATION PUMP</td></tr> <tr><td>RPT</td><td>RECYCLE PRESSURIZATION TANK</td></tr> <tr><td>RF</td><td>RETURN FAN</td></tr> <tr><td>SCD</td><td>SECONDARY CLARIFIER DRIVE</td></tr> <tr><td>SCN</td><td>SCREEN</td></tr> <tr><td>SCS</td><td>SCREENINGS</td></tr> <tr><td>SG</td><td>SLIDE GATE</td></tr> <tr><td>SMP</td><td>SAMPLER</td></tr> <tr><td>SV</td><td>SOLENOID VALVE</td></tr> <tr><td>SS</td><td>SOLID STATE MOTOR CONTROLLER</td></tr> <tr><td>ST</td><td>STRAINER</td></tr> <tr><td>SUP</td><td>SUMP PUMP</td></tr> <tr><td>SF</td><td>SUPPLY FAN</td></tr> <tr><td>SB</td><td>SWITCHBOARD</td></tr> <tr><td>TB</td><td>TURBINE BLOWER</td></tr> <tr><td>T</td><td>TANK</td></tr> <tr><td>TX</td><td>TRANSFORMER</td></tr> <tr><td>TR</td><td>TROLLEY</td></tr> <tr><td>TS</td><td>TOTE SCALE</td></tr> <tr><td>U</td><td>URINAL</td></tr> <tr><td>VD</td><td>VOTEX DRIVE</td></tr> <tr><td>VFD</td><td>VARIABLE FREQUENCY DRIVE</td></tr> <tr><td>WC</td><td>WATER CLOSET</td></tr> <tr><td>WCG</td><td>WATER CONTROL GATE</td></tr> <tr><td>WSP</td><td>WASH SCREEN PRESS</td></tr> <tr><td>YH</td><td>YARD HYDRANT</td></tr> </table> | AC | AIR COMPRESSOR | ADIF | AERATION BASIN DIFFUSERS | ADR | AIR DRYER | AHU | AIR HANDLING UNIT | AR | AIR RECEIVER | BDD | BACK DRAFT DAMPER | BFP | BACKFLOW PREVENTER | BL | BLOWER | BOV | BLOWOFF VALVE | BP | BOOSTER PUMP | C | COIL | CLAS | CLASSIFIER | CM | CLARIFIER MECHANISM | CP | CONTROL PANEL | CV | CONTROL VALVE | CON | CONVEYOR | CSCN | COARSE SCREEN | DP | DEWATERING PRESS | DAFC | DISSOLVED AIR FLOTATION COLLECTOR | DAFT | DISSOLVED AIR FLOTATION TANK | DU | DISINFECTION UNIT | DWH | DOMESTIC WATER HEATER | ESEW | EMERGENCY SHOWER AND EYEWASH | ETP | EFFLUENT TRANSFER PUMP | EF | EXHAUST FAN | FC | FAN COIL | FE | FLOW ELEMENT | FEXT | FIRE EXTINGUISHER | FLTR | FILTER | GA | GATE | GV | GATE VALVE | GEN | GENERATOR | CL | COLLECTOR | CN | CYCLONE | GTC | GRIT CLASSIFIER | GTW | GRIT WASHER/COMPACTOR | HO | HOIST | HB | HOSE BIBB | HP | HIGH VOLTAGE (250V TO 600V) PANELBOARD | HPT | HYDRO PNEUMATIC TANK | HY | HYDRANT | KG | KNIFE GATE | L | LAVATORY | LCP | LIGHTING CONTROL PANEL | LP | LIGHTING PANEL, LOW VOLTAGE (<250V) | LVR | LOUVER | MAU | MAKEUP AIR UNIT | MCC | MOTOR CONTROL CENTER | MLRP | MIXED LIQUOR RECYCLE PUMP | MOD | MOTOR OPERATED DAMPER | MSB | MAIN SWITCHBOARD | MSCN | MANUAL SCREEN | MX | MIXER | MU | MIXING UNIT | NPWP | NON-POTABLE WATER PUMP | P | PUMP | PCM | PRIMARY CLARIFIER MECHANISM | PF | PARSHALL FLUME | POMU | POLYMER MIXING UNIT | POTS | POLYMER TOTE SCALE | PSMP | PORTABLE SAMPLER | PLC | PROGRAMMABLE LOGIC CONTROLLER | PV | PLUG VALVE | RDT | ROTARY DRUM THICKENER | RPP | RECYCLE PRESSURIZATION PUMP | RPT | RECYCLE PRESSURIZATION TANK | RF | RETURN FAN | SCD | SECONDARY CLARIFIER DRIVE | SCN | SCREEN | SCS | SCREENINGS | SG | SLIDE GATE | SMP | SAMPLER | SV | SOLENOID VALVE | SS | SOLID STATE MOTOR CONTROLLER | ST | STRAINER | SUP | SUMP PUMP | SF | SUPPLY FAN | SB | SWITCHBOARD | TB | TURBINE BLOWER | T | TANK | TX | TRANSFORMER | TR | TROLLEY | TS | TOTE SCALE | U | URINAL | VD | VOTEX DRIVE | VFD | VARIABLE FREQUENCY DRIVE | WC | WATER CLOSET | WCG | WATER CONTROL GATE | WSP | WASH SCREEN PRESS | YH | YARD HYDRANT | <table border="0"> <tr><td>[     ]</td><td>RAILROAD</td></tr> <tr><td>[---]</td><td>CENTERLINE</td></tr> <tr><td>[---]</td><td>BOTTOM OF DITCH</td></tr> <tr><td>[---]</td><td>PROPERTY LINE</td></tr> <tr><td>[---]</td><td>EASEMENT</td></tr> <tr><td>[---]</td><td>LIMITS OF CONSTRUCTION</td></tr> <tr><td>[---]</td><td>ROW</td></tr> <tr><td>[---]</td><td>EXISTING CONTOUR (MINOR)</td></tr> <tr><td>[---]</td><td>EXISTING CONTOUR W/ ELEV. (MAJOR)</td></tr> <tr><td>[---]</td><td>EXISTING FENCE</td></tr> <tr><td>[---]</td><td>EXISTING VEGETATION/BRUSH LINE</td></tr> <tr><td>[---]</td><td>FENCE - BARB WIRE</td></tr> <tr><td>[---]</td><td>FENCE - CHAIN LINK</td></tr> <tr><td>[---]</td><td>FENCE - FIELD</td></tr> <tr><td>[---]</td><td>FENCE - OTHER</td></tr> <tr><td>[---]</td><td>FENCE - ORNAMENTAL</td></tr> <tr><td>[---]</td><td>FENCE - WOVEN WIRE</td></tr> <tr><td>[---]</td><td>FLOOD LIMIT (100 YEAR)</td></tr> <tr><td>[---]</td><td>HIGHWAY GUARDRAIL</td></tr> <tr><td>[---]</td><td>LEEVEE TOP</td></tr> <tr><td>[---]</td><td>LEEVEE TOE</td></tr> <tr><td>[---]</td><td>NEW CONTOUR (MINOR)</td></tr> <tr><td>[---]</td><td>NEW CONTOUR (MAJOR)</td></tr> <tr><td>[---]</td><td>ROCK BERM</td></tr> <tr><td>[---]</td><td>SILT FENCE</td></tr> <tr><td>[---]</td><td>TOE OF SLOPE</td></tr> <tr><td>[---]</td><td>TOP OF SLOPE</td></tr> <tr><td>[---]</td><td>PIPELINE (GENERIC)</td></tr> <tr><td>[---]</td><td>LARGE PIPELINE (GENERIC)</td></tr> <tr><td>[---]</td><td>UTILITY BENEATH STRUCTURE (GENERIC)</td></tr> <tr><td>[---]</td><td>FIBER OPTIC</td></tr> <tr><td>[---]</td><td>FUEL OIL</td></tr> <tr><td>[---]</td><td>NATURAL GAS</td></tr> <tr><td>[---]</td><td>INDUSTRIAL WASTE WATER</td></tr> <tr><td>[---]</td><td>SANITARY SEWER</td></tr> <tr><td>[---]</td><td>STORM SEWER</td></tr> <tr><td>[---]</td><td>STORM SEWER (LARGE DIAMETER)</td></tr> <tr><td>[---]</td><td>DOMESTIC WATER</td></tr> <tr><td>[---]</td><td>DOMESTIC WATER NON-POTABLE</td></tr> <tr><td>[---]</td><td>SANITARY FORCE MAIN</td></tr> <tr><td>[---]</td><td>ELECTRICAL POWER (OVERHEAD)</td></tr> <tr><td>[---]</td><td>ELECTRICAL POWER (UNDERGROUND)</td></tr> </table> <p><b>GENERAL NOTES:</b></p> <ol style="list-style-type: none"> <li>THIS IS A STANDARD SHEET SHOWING COMMON SYMBOLOGY. ALL SYMBOLS ARE NOT NECESSARILY USED ON THIS PROJECT.</li> <li>SCREENING OR SHADING OF WORK IS USED TO INDICATE EXISTING COMPONENTS OR TO DE-EMPHASIZE PROPOSED IMPROVEMENTS TO HIGHLIGHT SELECTED TRADE WORK. REFER TO CONTEXT OF EACH SHEET FOR USAGE.</li> </ol> | [     ] | RAILROAD | [---] | CENTERLINE | [---] | BOTTOM OF DITCH | [---] | PROPERTY LINE | [---] | EASEMENT | [---] | LIMITS OF CONSTRUCTION | [---] | ROW | [---] | EXISTING CONTOUR (MINOR) | [---] | EXISTING CONTOUR W/ ELEV. (MAJOR) | [---] | EXISTING FENCE | [---] | EXISTING VEGETATION/BRUSH LINE | [---] | FENCE - BARB WIRE | [---] | FENCE - CHAIN LINK | [---] | FENCE - FIELD | [---] | FENCE - OTHER | [---] | FENCE - ORNAMENTAL | [---] | FENCE - WOVEN WIRE | [---] | FLOOD LIMIT (100 YEAR) | [---] | HIGHWAY GUARDRAIL | [---] | LEEVEE TOP | [---] | LEEVEE TOE | [---] | NEW CONTOUR (MINOR) | [---] | NEW CONTOUR (MAJOR) | [---] | ROCK BERM | [---] | SILT FENCE | [---] | TOE OF SLOPE | [---] | TOP OF SLOPE | [---] | PIPELINE (GENERIC) | [---] | LARGE PIPELINE (GENERIC) | [---] | UTILITY BENEATH STRUCTURE (GENERIC) | [---] | FIBER OPTIC | [---] | FUEL OIL | [---] | NATURAL GAS | [---] | INDUSTRIAL WASTE WATER | [---] | SANITARY SEWER | [---] | STORM SEWER | [---] | STORM SEWER (LARGE DIAMETER) | [---] | DOMESTIC WATER | [---] | DOMESTIC WATER NON-POTABLE | [---] | SANITARY FORCE MAIN | [---] | ELECTRICAL POWER (OVERHEAD) | [---] | ELECTRICAL POWER (UNDERGROUND) |
| ROOM NAME  | XX-XX   | ROOM NUMBER  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| DOOR NUMBER  | XXX<br>X  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| COLUMN GRID LINE   | (A)   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| WALL TYPE  | [X]   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| WINDOW TYPE  | [X]   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| LOUVER   | [X]   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| ACCESSORY, FURNITURE, AND MISCELLANEOUS EQUIPMENT IDENTIFIER   | [X]   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | 4-HOUR FIRE RATED WALL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | 3-HOUR FIRE RATED WALL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | 2-HOUR FIRE RATED WALL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | 1-HOUR FIRE RATED WALL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | COLUMN GRID LINE/CENTERLINE   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| AC   | AIR COMPRESSOR  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| ADIF   | AERATION BASIN DIFFUSERS  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| ADR  | AIR DRYER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| AHU  | AIR HANDLING UNIT   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| AR   | AIR RECEIVER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| BDD  | BACK DRAFT DAMPER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| BFP  | BACKFLOW PREVENTER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| BL   | BLOWER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| BOV  | BLOWOFF VALVE   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| BP   | BOOSTER PUMP  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| C  | COIL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| CLAS   | CLASSIFIER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| CM   | CLARIFIER MECHANISM   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| CP   | CONTROL PANEL   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| CV   | CONTROL VALVE   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| CON  | CONVEYOR  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| CSCN   | COARSE SCREEN   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| DP   | DEWATERING PRESS  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| DAFC   | DISSOLVED AIR FLOTATION COLLECTOR   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| DAFT   | DISSOLVED AIR FLOTATION TANK  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| DU   | DISINFECTION UNIT   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| DWH  | DOMESTIC WATER HEATER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| ESEW   | EMERGENCY SHOWER AND EYEWASH  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| ETP  | EFFLUENT TRANSFER PUMP  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| EF   | EXHAUST FAN   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| FC   | FAN COIL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| FE   | FLOW ELEMENT  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| FEXT   | FIRE EXTINGUISHER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| FLTR   | FILTER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| GA   | GATE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| GV   | GATE VALVE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| GEN  | GENERATOR   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| CL   | COLLECTOR   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| CN   | CYCLONE   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| GTC  | GRIT CLASSIFIER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| GTW  | GRIT WASHER/COMPACTOR   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| HO   | HOIST   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| HB   | HOSE BIBB   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| HP   | HIGH VOLTAGE (250V TO 600V) PANELBOARD  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| HPT  | HYDRO PNEUMATIC TANK  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| HY   | HYDRANT   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| KG   | KNIFE GATE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| L  | LAVATORY  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| LCP  | LIGHTING CONTROL PANEL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| LP   | LIGHTING PANEL, LOW VOLTAGE (<250V)   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| LVR  | LOUVER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| MAU  | MAKEUP AIR UNIT   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| MCC  | MOTOR CONTROL CENTER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| MLRP   | MIXED LIQUOR RECYCLE PUMP   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| MOD  | MOTOR OPERATED DAMPER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| MSB  | MAIN SWITCHBOARD  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| MSCN   | MANUAL SCREEN   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| MX   | MIXER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| MU   | MIXING UNIT   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| NPWP   | NON-POTABLE WATER PUMP  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| P  | PUMP  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| PCM  | PRIMARY CLARIFIER MECHANISM   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| PF   | PARSHALL FLUME  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| POMU   | POLYMER MIXING UNIT   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| POTS   | POLYMER TOTE SCALE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| PSMP   | PORTABLE SAMPLER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| PLC  | PROGRAMMABLE LOGIC CONTROLLER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| PV   | PLUG VALVE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| RDT  | ROTARY DRUM THICKENER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| RPP  | RECYCLE PRESSURIZATION PUMP   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| RPT  | RECYCLE PRESSURIZATION TANK   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| RF   | RETURN FAN  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SCD  | SECONDARY CLARIFIER DRIVE   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SCN  | SCREEN  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SCS  | SCREENINGS  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SG   | SLIDE GATE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SMP  | SAMPLER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SV   | SOLENOID VALVE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SS   | SOLID STATE MOTOR CONTROLLER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| ST   | STRAINER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SUP  | SUMP PUMP   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SF   | SUPPLY FAN  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| SB   | SWITCHBOARD   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| TB   | TURBINE BLOWER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| T  | TANK  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| TX   | TRANSFORMER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| TR   | TROLLEY   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| TS   | TOTE SCALE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| U  | URINAL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| VD   | VOTEX DRIVE   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| VFD  | VARIABLE FREQUENCY DRIVE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| WC   | WATER CLOSET  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| WCG  | WATER CONTROL GATE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| WSP  | WASH SCREEN PRESS   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| YH   | YARD HYDRANT  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [     ]  | RAILROAD  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | CENTERLINE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | BOTTOM OF DITCH   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | PROPERTY LINE   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | EASEMENT  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | LIMITS OF CONSTRUCTION  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | ROW   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | EXISTING CONTOUR (MINOR)  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | EXISTING CONTOUR W/ ELEV. (MAJOR)   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | EXISTING FENCE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | EXISTING VEGETATION/BRUSH LINE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | FENCE - BARB WIRE   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | FENCE - CHAIN LINK  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | FENCE - FIELD   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | FENCE - OTHER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | FENCE - ORNAMENTAL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | FENCE - WOVEN WIRE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | FLOOD LIMIT (100 YEAR)  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | HIGHWAY GUARDRAIL   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | LEEVEE TOP  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | LEEVEE TOE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | NEW CONTOUR (MINOR)   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | NEW CONTOUR (MAJOR)   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | ROCK BERM   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | SILT FENCE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | TOE OF SLOPE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | TOP OF SLOPE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | PIPELINE (GENERIC)  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | LARGE PIPELINE (GENERIC)  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | UTILITY BENEATH STRUCTURE (GENERIC)   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | FIBER OPTIC   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | FUEL OIL  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | NATURAL GAS   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | INDUSTRIAL WASTE WATER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | SANITARY SEWER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | STORM SEWER   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | STORM SEWER (LARGE DIAMETER)  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | DOMESTIC WATER  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | DOMESTIC WATER NON-POTABLE  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | SANITARY FORCE MAIN   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | ELECTRICAL POWER (OVERHEAD)   |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |
| [---]  | ELECTRICAL POWER (UNDERGROUND)  |  |                        |                           |             |             |          |  |                  |     |  |           |     |  |             |     |  |        |     |  |  |     |  |       |                        |       |                        |       |                        |       |                        |       |                             |   |  |    |                |      |                          |     |           |     |                   |    |              |     |                   |     |                    |    |        |     |               |    |              |   |      |      |            |    |                     |    |               |    |               |     |          |      |               |    |                  |      |                                   |      |                              |    |                   |     |                       |      |                              |     |                        |    |             |    |          |    |              |      |                   |      |        |    |      |    |            |     |           |    |           |    |         |     |                 |     |                       |    |       |    |           |    |  |     |                      |    |         |    |            |   |          |     |                        |    |                                     |     |        |     |                 |     |                      |      |                           |     |                       |     |                  |      |               |    |       |    |             |      |                        |   |      |     |                             |    |                |      |                     |      |                    |      |                  |     |                               |    |            |     |                       |     |                             |     |                             |    |            |     |                           |     |        |     |            |    |            |     |         |    |                |    |                              |    |          |     |           |    |            |    |             |    |                |   |      |    |             |    |         |    |            |   |        |    |             |     |                          |    |              |     |                    |     |                   |    |              |   |         |          |       |            |       |                 |       |               |       |          |       |                        |       |     |       |                          |       |                                   |       |                |       |                                |       |                   |       |                    |       |               |       |               |       |                    |       |                    |       |                        |       |                   |       |            |       |            |       |                     |       |                     |       |           |       |            |       |              |       |              |       |                    |       |                          |       |                                     |       |             |       |          |       |             |       |                        |       |                |       |             |       |                              |       |                |       |                            |       |                     |       |                             |       |                                |

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HDR  
KANSAS CERTIFICATE OF AUTHORITY #E-67  
10450 HOLMES ROAD  
KANSAS CITY, MO 64131  
816-360-2700

| ISSUE | DATE     | DESCRIPTION   |
|-------|----------|---------------|
| 0     | 09-10-21 | SUBMITTAL SET |

|                 |            |
|-----------------|------------|
| PROJECT MANAGER | MIKE KALIS |
| PROJECT NUMBER  | 10256802   |

**PRELIMINARY  
NOT FOR  
CONSTRUCTION  
OR  
RECORDING**



**Johnson County Wastewater  
Rock Creek Pump Station  
Preliminary Development Plan**



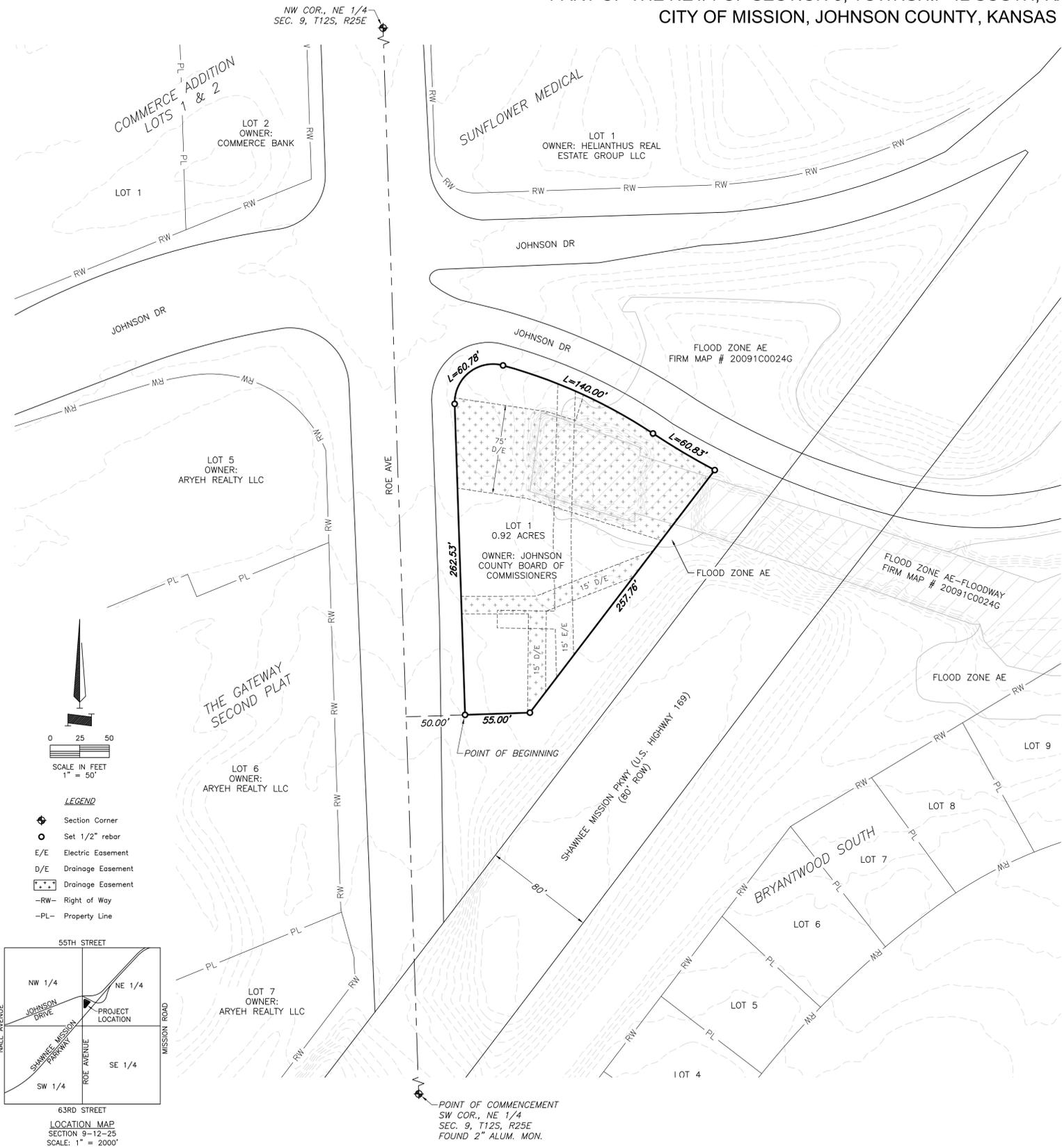
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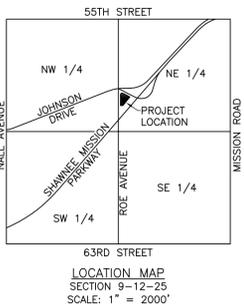
**GENERAL LEGEND & ABBREVIATIONS**

# PRELIMINARY PLAT of ROCK CREEK PUMP STATION, LOT 1

PART OF THE NE1/4 OF SECTION 9, TOWNSHIP 12 SOUTH, RANGE 25 EAST  
CITY OF MISSION, JOHNSON COUNTY, KANSAS



- LEGEND**
- ◆ Section Corner
  - Set 1/2" rebar
  - E/E Electric Easement
  - D/E Drainage Easement
  - Drainage Easement
  - RW- Right of Way
  - PL- Property Line



**DESCRIPTION:**

All that part of the Northeast Quarter of Section 9, Township 12 South, Range 25 East, City of Mission, Johnson County, Kansas, more particularly described as follows:

(Note: The bearings in the following description are based on Grid North, Kansas State Plane Coordinate System, NAD83)

Commencing at the southwest corner of the Northeast Quarter of said Section 9; thence N01°55'25"W, along the west line thereof, 610.16 feet; thence departing said west line, N88°04'35"E, 50.00 feet to the Point of Beginning; thence N01°55'25"W, 262.53 feet; thence northeasterly along a curve to the right being tangent to the last described course and having a radius of 32.50 feet, an arc distance of 60.76 feet; thence southeasterly along a curve to the right being compound to the last described curve and having a radius of 441.00 feet, an arc distance of 140.00 feet; thence southeasterly along a curve to the left being reverse to the last described curve and having a radius of 605.00 feet, an arc distance of 60.83 feet; thence S37°25'35"W, 257.76 feet; thence S88°04'35"W, 55.00 feet to the Point of Beginning.

Containing in all 0.92 acres, more or less.

Subject to all easements and restrictions of record.

**DEDICATION:** The undersigned proprietors of the above described tract of land having caused the same to be subdivided in the manner as shown on the accompanying plat, which subdivision and plat shall hereinafter be known as "ROCK CREEK PUMP STATION, LOT 1", a subdivision in the City of Mission, Johnson County, Kansas.

**IN TESTIMONY WHEREOF:** Johnson County Board of Commissioners has caused this instrument to be executed by Ed Eilert, its Chairman, this \_\_\_\_ day of \_\_\_\_\_, 2021.

Ed Eilert  
Johnson County Board of Commissioners

State of Kansas )  
County of Johnson ) SS

This instrument was acknowledged before me on this \_\_\_\_ day of \_\_\_\_\_, 2021, by Ed Eilert as Chairman of Johnson County Board of Commissioners.

Notary

My appointment expires:

APPROVED BY THE Planning Commission of the City of Mission, Johnson County, Kansas, this \_\_\_\_ day of \_\_\_\_\_, 2021.

Chairman: Mike Lee

APPROVED BY THE City Council of the City of Mission, Johnson County, Kansas, this \_\_\_\_ day of \_\_\_\_\_, 2021.

Mayor: Ronald E. Appletoft

City Clerk: Audrey McClanahan

**EASEMENT DEDICATION**

A non-exclusive easement or license to enter upon, locate, construct, use and maintain or authorize the location, construction, maintenance or use of conduits, surface drainage facilities, subsurface drainage facilities, and similar facilities, upon, over and under these areas outlined and designated on this plat as "Storm Sewer Easement" or "Drainage Easement" or "D/E" is hereby granted to the City of Mission, Kansas. Storm Sewer Easements end at grade, however building foundations can be constructed within said easements below grade.

**SURVEYOR'S NOTES:**

1. Property classified as "Urban".
2. Plat is valid only if print has original signature and seal of the surveyor.
3. Surveyor has made no investigation or independent search of record, encumbrances, restrictive covenants, ownership title evidence or any other facts that an accurate and current title search may disclose.
4. Proposed use: Pump Station Facility
5. There are no new streets planned within the proposed development.
6. See Preliminary Development Plan Submittal for drainage calculations.
7. Property to be Zoned "M-P" Industrial Park District

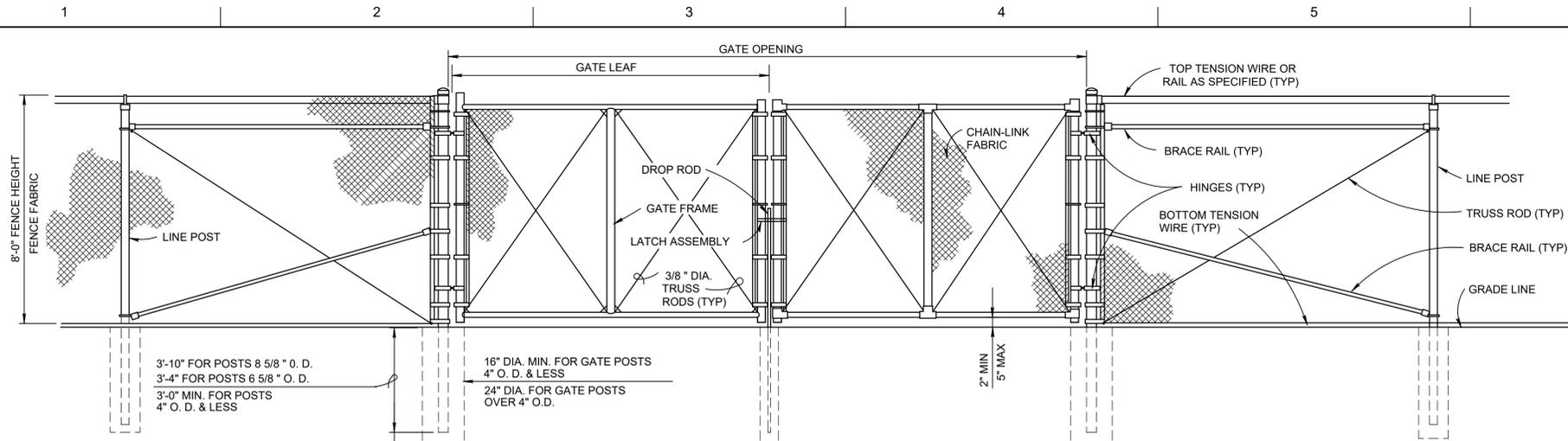
**SURVEYOR'S DECLARATION:**

I hereby certify that I have made or directly supervised a survey of the above described premises and that the results shown on this plat are represented correctly to the best of my belief and professional knowledge. This survey meets the current minimum standards for boundary surveys as set forth by the state of Kansas.

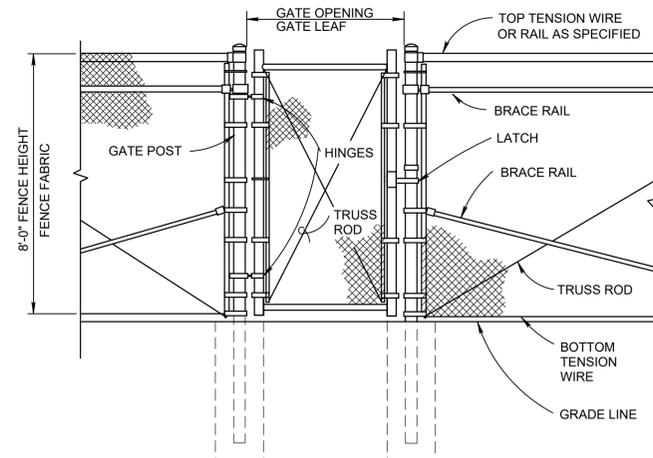
Date of Preparation: September 1st, 2021



|  |  |
|--|--|
|  |  |
| DESIGNED BY: TBS<br>DRAWN BY: JRY<br>CHECKED BY: JRY |  |
|  | <b>HDR</b><br><b>HDR ENGINEERING, INC.</b><br>10460 HOLMES ROAD, SUITE 600<br>KANSAS CITY, MO 64114<br>816-347-1100 • FAX 816-347-1197<br>MO. CERTIFICATE OF AUTHORITY #0008956  |
|  | PRELIMINARY PLAT OF<br>ROCK CREEK PUMP STATION, LOT 1<br>PART OF THE NE1/4 OF SECTION 9, T12S, R25E<br>CITY OF MISSION, JOHNSON COUNTY, KANSAS<br>OWNER ADDRESS:<br>111 S. CHERRY ST., SUITE 3300,<br>OLATHE, KS 66061 |
|  | PROJECT NO.<br><b>10256802</b><br>DRAWING NO.<br><b>1 of 1</b>   |



**A** DOUBLE SWING GATE (TYPE FE5 CHAIN LINK)  
NOT TO SCALE



**B** 5'-0" MAN GATE (TYPE FE5 FENCE)  
NOT TO SCALE

**NOTES:**

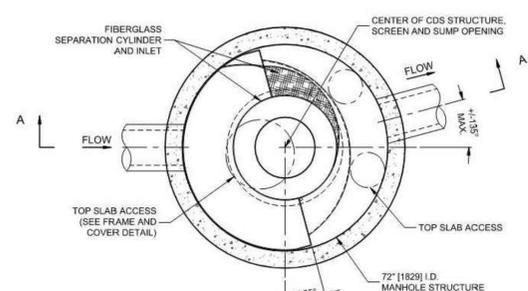
1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE SPECIFICATIONS.
2. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA.
3. C-SECTION POSTS SHALL BE INSTALLED SO THAT THE VOID INSIDE THE POST IS COMPLETELY FILLED WITH CONCRETE UP TO THE TOP OF THE FOUNDATION.

**FENCE LEGEND:**

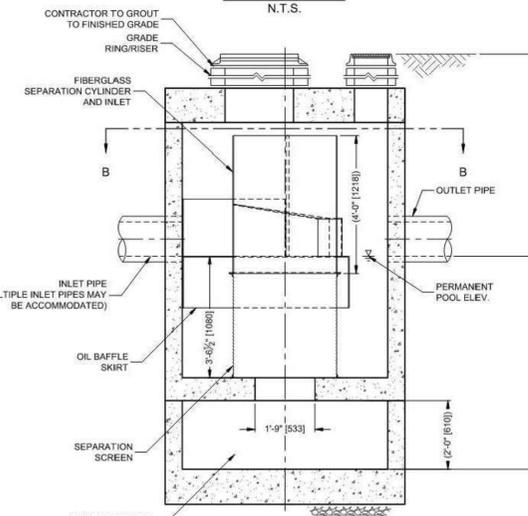
- TYPE FE5 - CHAIN-LINK FENCE WITHOUT BARBED-WIRE APRON
- TYPE FE6 - CHAIN-LINK FENCE W/BARBED-WIRE ON SINGLE OUTRIGGER
- TYPE FE7 - CHAIN-LINK FENCE W/BARBED-WIRE ON DOUBLE OUTRIGGER
- TYPE FE8 - CHAIN-LINK FENCE W/BARBED-WIRE AND BARBED-TAPE ON DOUBLE OUTRIGGER
- TR - FENCE WITH TOP RAIL AND TENSION WIRE AT BOTTOM
- TBR - FENCE WITH TOP AND BOTTOM RAILS
- TWB - TENSION WIRE TOP AND BOTTOM
- TWBR - FENCE WITH TOP TENSION WIRE AND BOTTOM RAIL
- FINAL NUMBER IS FABRIC WIDTH IN INCHES.

**EXAMPLES**

- FE6-TR-72 - CHAIN-LINK SECURITY FENCE WITH BARBED-WIRE ON SINGLE OUTRIGGER, TOP RAIL, AND 72 INCH FABRIC WIDTH.
- FE5-TWB-84 - CHAIN-LINK SECURITY FENCE WITH NO APRON, TOP AND BOTTOM TENSION WIRE, AND 84 INCH FABRIC WIDTH.



**PLAN VIEW B-B**  
N.T.S.



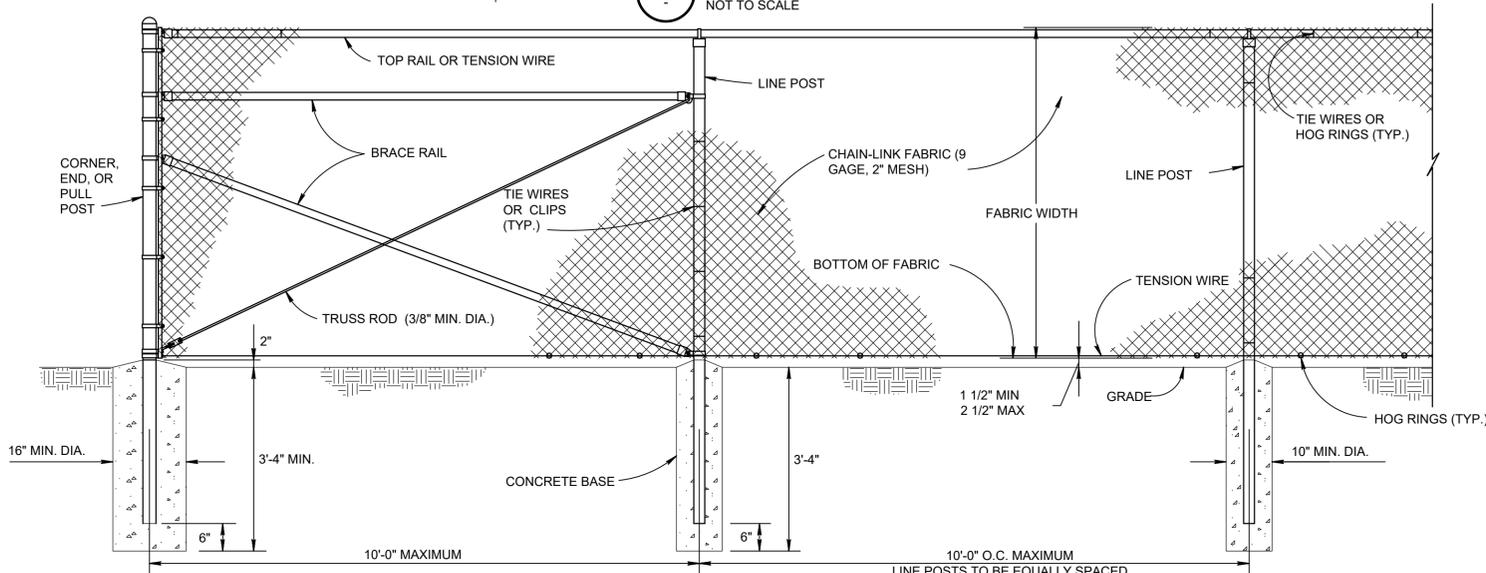
**ELEVATION A-A**  
N.T.S.

**NOTE:**

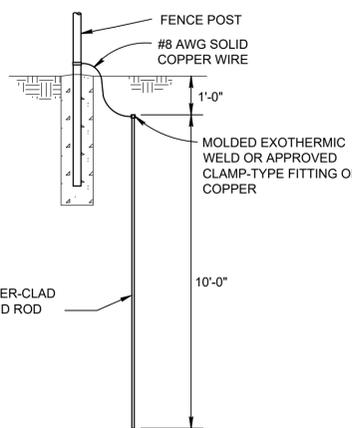
1. DETAIL IS SHOWN IS A CONTECH CDS-6-C (CDS3030) HYDRODYNAMIC SEPARATOR. THE FINAL DESIGN SUBMITTAL MAY VARY IN MANUFACTURER AND CONCEPT. THE FINAL DESIGN WILL BE COMPLETED BY ANOTHER ENGINEERING FIRM.

**HYDRODYNAMIC SEPARATOR DETAIL**

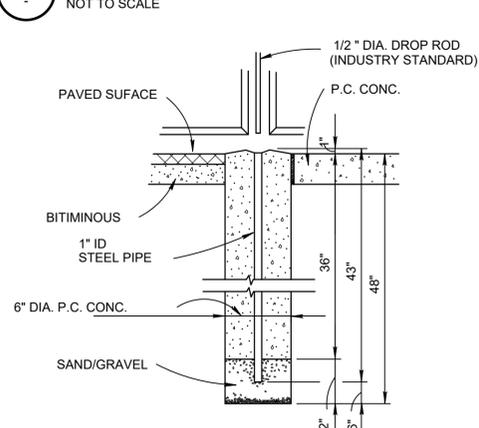
**G** NOT TO SCALE



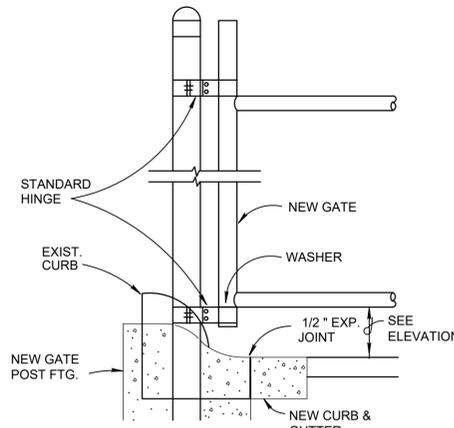
**C** 8'-0" SECURITY FENCE DETAIL (TYPE FE5 CHAIN LINK)  
NOT TO SCALE



**D** GROUNDING DETAIL  
NOT TO SCALE



**E** DROP ROD FOUNDATION DETAIL  
NOT TO SCALE



**F** GATE POST SECTION AT CURB & GUTTER  
NOT TO SCALE

| USE AND SECTION           | MINIMUM OUTSIDE DIMENSIONS (NOMINAL) |                         |                            |
|---------------------------|--------------------------------------|-------------------------|----------------------------|
|                           | FABRIC WIDTH 72" OR LESS             | FABRIC WIDTH 84" TO 96" | FABRIC WIDTH 108" AND OVER |
| CORNER, END & PULL POSTS  |                                      |                         |                            |
| TUBULAR - ROUND           | 2.375" O.D.                          | 2.875" O.D.             | 4.00" O.D.                 |
| TUBULAR - SQUARE          | 2.00" SQ.                            | 2.50" SQ.               | 3.00" SQ.                  |
| C-SECTION (ROLL-FORMED)   | 3.50" X 3.50"                        | 3.50" X 3.50"           |                            |
| LINE POSTS                |                                      |                         |                            |
| TUBULAR - ROUND           | 1.90" O.D.                           | 2.375" O.D.             | 2.875" O.D.                |
| H-SECTION                 | 2.25" X 1.70"                        | 2.25" X 1.70"           | 2.25" X 1.70"              |
| C-SECTION (ROLL-FORMED)   | 1.875" X 1.625"                      | 2.25" X 1.70"           |                            |
| TOP, BOTTOM & BRACE RAILS |                                      |                         |                            |
| TUBULAR - ROUND           |                                      | 1.66" O.D.              |                            |
| TUBULAR - SQUARE          |                                      | 1.50" SQ.               |                            |
| H-SECTION                 |                                      | 1.625" X 1.50"          |                            |
| C-SECTION (ROLL-FORMED)   |                                      | 1.625" X 1.25"          |                            |

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HDR  
KANSAS CERTIFICATE OF AUTHORITY #E-67  
10450 HOLMES ROAD  
KANSAS CITY, MO 64131  
816-360-2700

| ISSUE | DATE     | DESCRIPTION   | PROJECT NUMBER |
|-------|----------|---------------|----------------|
| 0     | 09-10-21 | SUBMITTAL SET | 10256802       |

**PRELIMINARY NOT FOR CONSTRUCTION OR RECORDING**



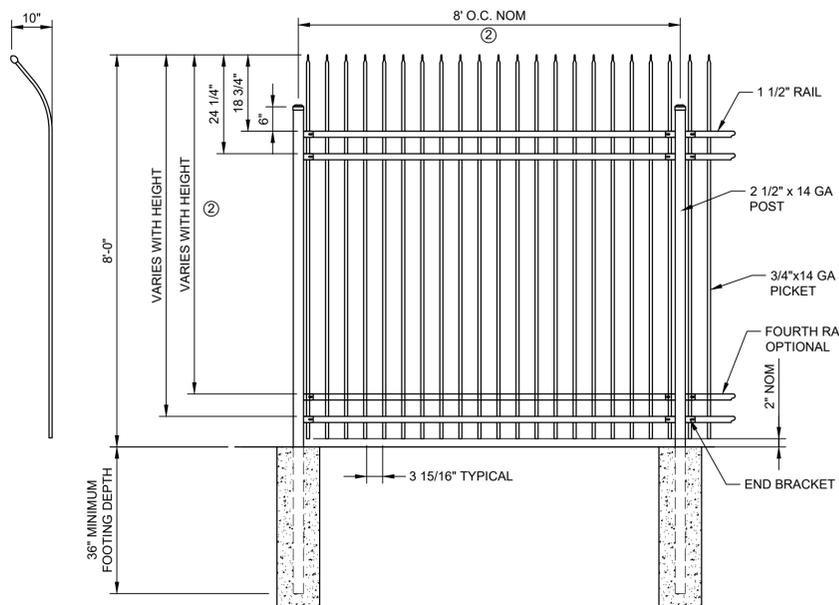
**Johnson County Wastewater Rock Creek Pump Station Preliminary Development Plan**

**CIVIL DETAILS**



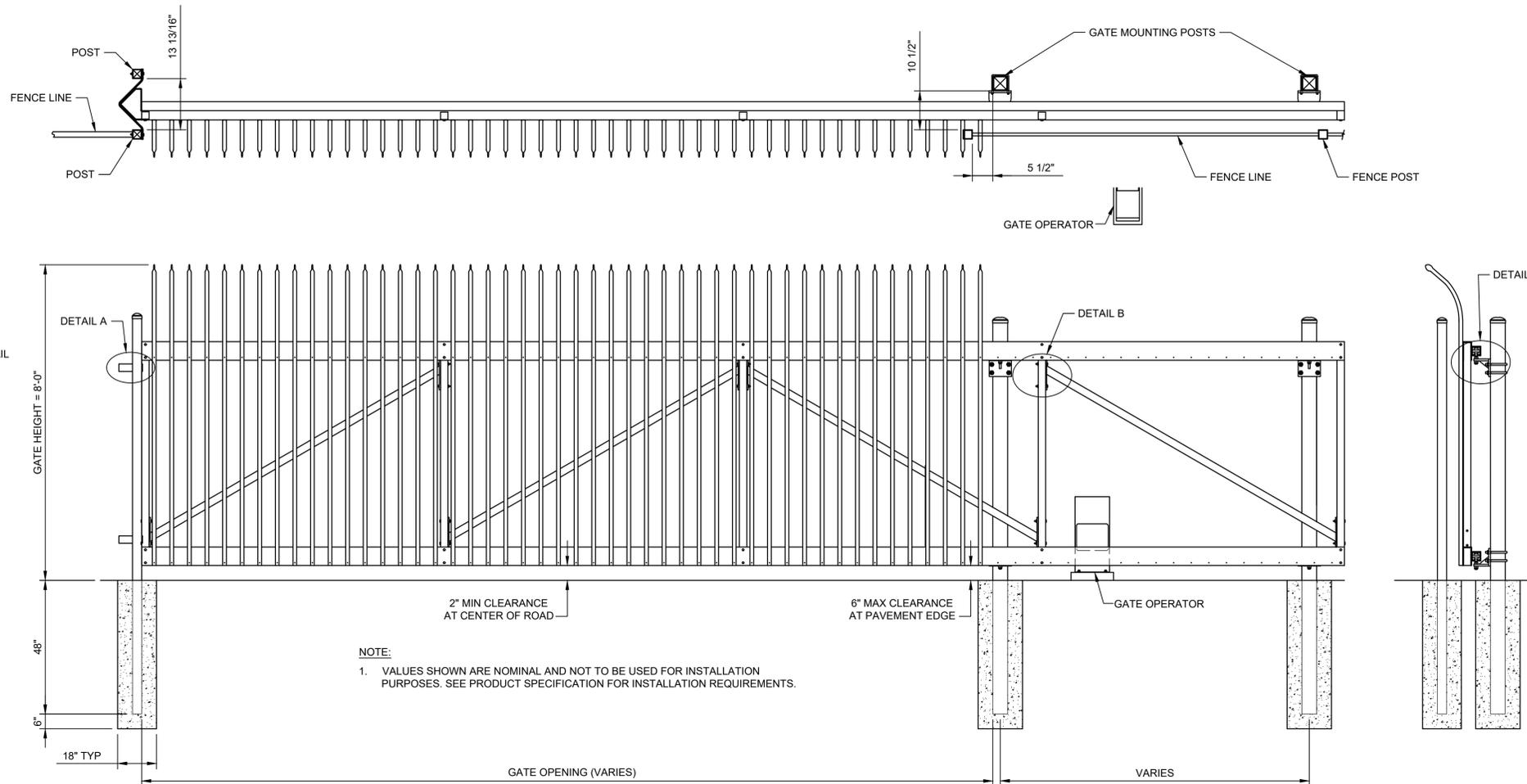
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SHEET  
**02C501**

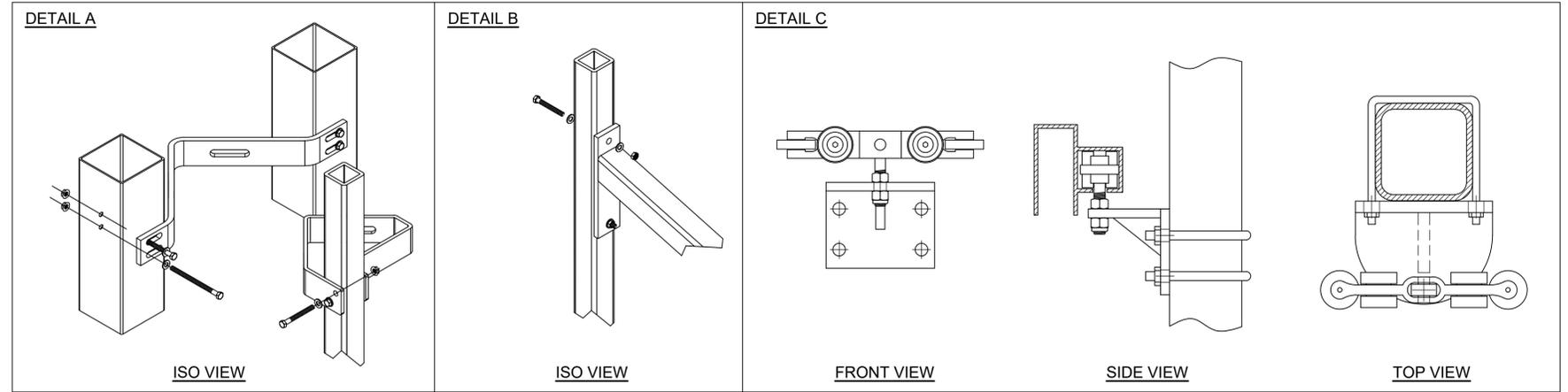


- NOTES:**
1. POST SIZE DEPENDS ON FENCE HEIGHT AND WIND LOADS. SEE MONTAGE PLUS SPECIFICATION FOR POST SIZING CHART.
  2. FORTH RAIL OPTIONAL.
  3. 7' & 8' HEIGHTS WILL REQUIRE A 14GA PICKET & 14GA POST

**A** ORNAMENTAL FENCE DETAIL  
NOT TO SCALE



- NOTE:**
1. VALUES SHOWN ARE NOMINAL AND NOT TO BE USED FOR INSTALLATION PURPOSES. SEE PRODUCT SPECIFICATION FOR INSTALLATION REQUIREMENTS.



**B** PRIMARY ENTRANCE GATE  
SINGLE STRUCTURAL CANTILEVER SLIDE GATE DETAIL  
NOT TO SCALE

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Keyhill, Pat



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KANSAS CITY, MO 64131  
816-360-2700

| ISSUE | DATE     | DESCRIPTION   |
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| 0     | 09-10-21 | SUBMITTAL SET |

|                 |            |
|-----------------|------------|
| PROJECT MANAGER | MIKE KALIS |
| PROJECT NUMBER  | 10256802   |

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OR  
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**Johnson County Wastewater  
Rock Creek Pump Station  
Preliminary Development Plan**



**CIVIL DETAILS**

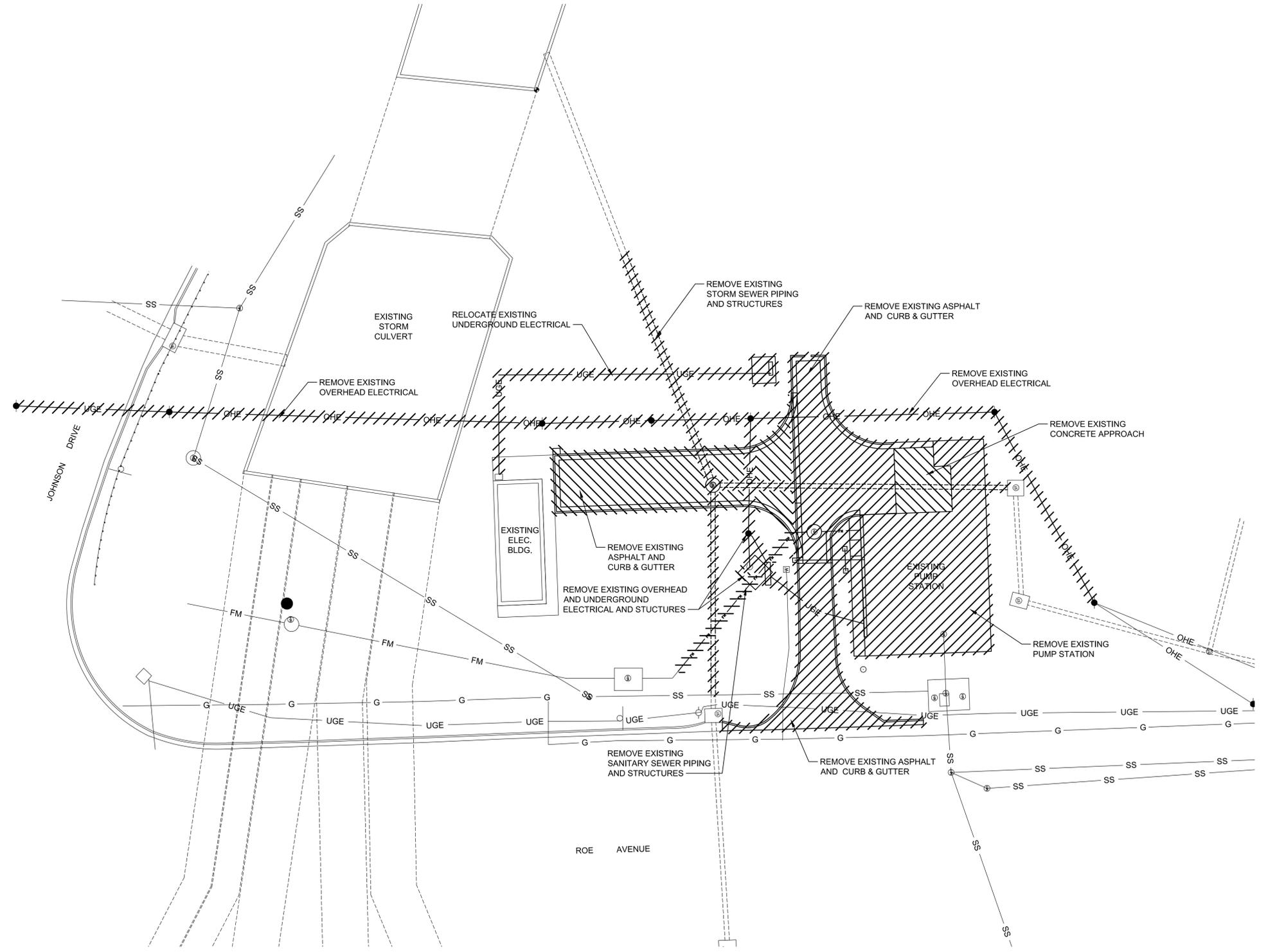
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SCALE | 3/16" = 1'-0"

SHEET  
**02C502**



**GENERAL NOTES:**

1. REMOVE EXISTING STRUCTURES AND PIPING AFTER REPLACEMENT STRUCTURES AND PIPING ARE INSTALLED AND OPERATIONAL.



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9/3/2021 2:10 PM  
Keyhill, Pat

|                 |            |
|-----------------|------------|
| PROJECT MANAGER | MIKE KALIS |
| PROJECT NUMBER  | 10256802   |

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OR  
RECORDING**



**Johnson County Wastewater  
Rock Creek Pump Station  
Preliminary Development Plan**

**SITE PLANNING  
SITE DEMO PLAN**



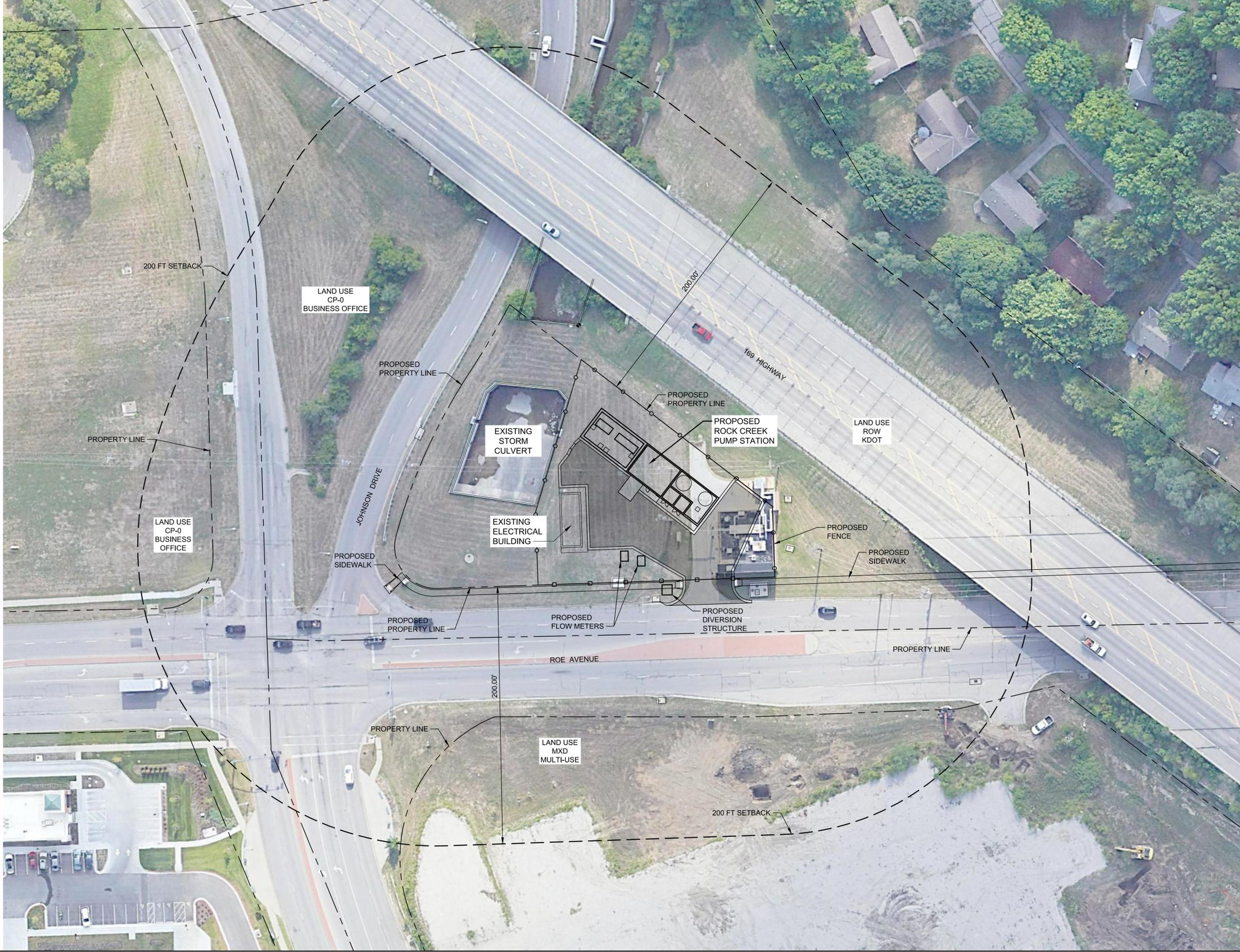
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SHEET  
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|-------|----------|---------------|
| 0     | 09-10-21 | SUBMITTAL SET |



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Hardee, Ron

D  
C  
B  
A



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AUTHORITY #E-67  
10450 HOLMES ROAD  
KANSAS CITY, MO 64131  
816-360-2700

| ISSUE | DATE     | DESCRIPTION             |
|-------|----------|-------------------------|
| 1     | 09-20-21 | REVISED TO ADD SIDEWALK |
| 0     | 09-10-21 | SUBMITTAL SET           |

|                 |            |
|-----------------|------------|
| PROJECT MANAGER | MIKE KALIS |
| PROJECT NUMBER  | 10256802   |

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CONSTRUCTION  
OR  
RECORDING**



**Johnson County Wastewater  
Rock Creek Pump Station  
Preliminary Development Plan**



**SITE PLANNING  
OVERALL SITE PLAN**

FILENAME | 10C101.dwg  
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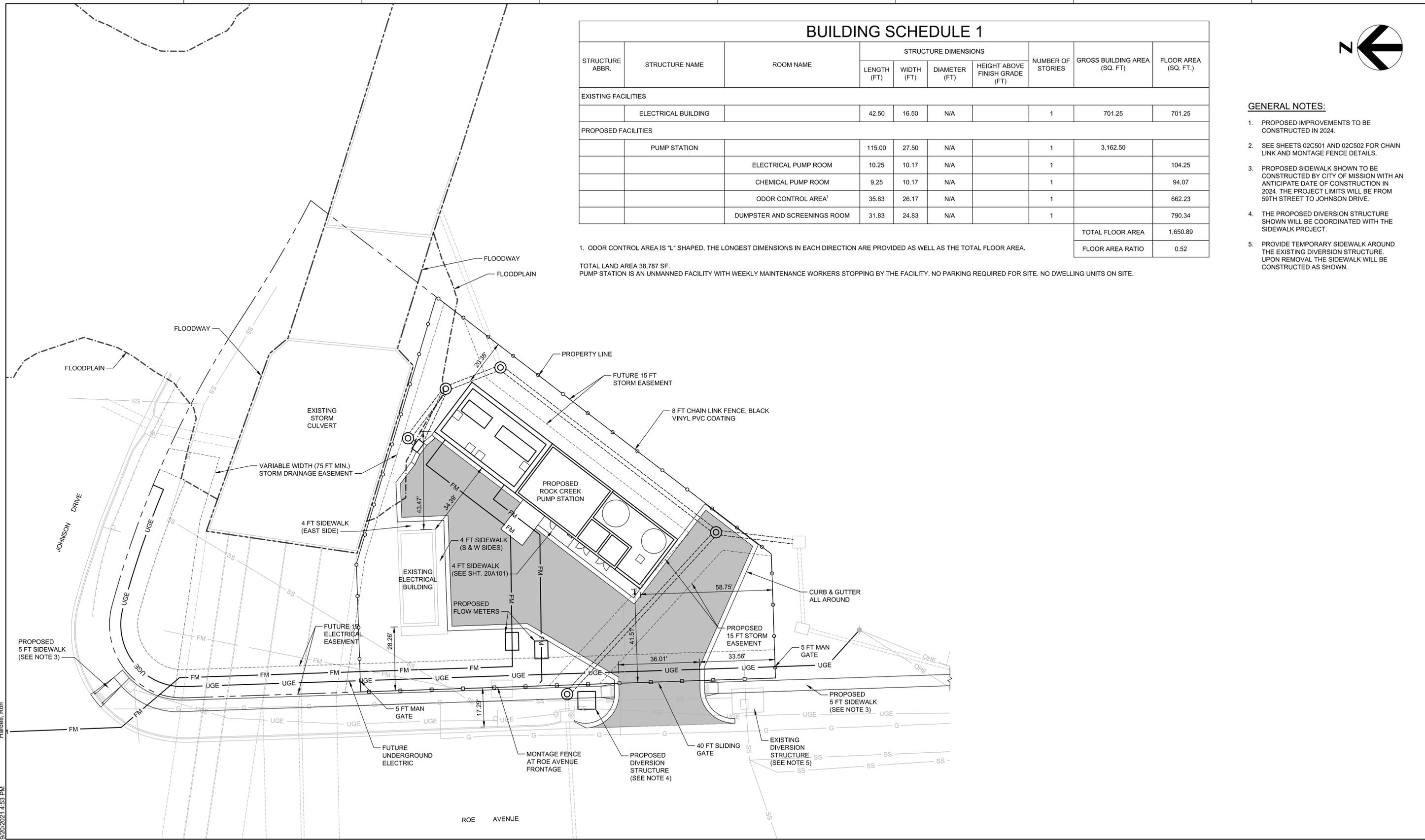
SHEET  
**10C101**

### BUILDING SCHEDULE 1

| STRUCTURE ABBR.     | STRUCTURE NAME      | ROOM NAME                      | STRUCTURE DIMENSIONS |            |               |                                | NUMBER OF STORIES | GROSS BUILDING AREA (SQ. FT.) | FLOOR AREA (SQ. FT.) |
|---------------------|---------------------|--------------------------------|----------------------|------------|---------------|--------------------------------|-------------------|-------------------------------|----------------------|
|                     |                     |                                | LENGTH (FT)          | WIDTH (FT) | DIAMETER (FT) | HEIGHT ABOVE FINISH GRADE (FT) |                   |                               |                      |
| EXISTING FACILITIES |                     |                                |                      |            |               |                                |                   |                               |                      |
|                     | ELECTRICAL BUILDING |                                | 42.50                | 16.50      | N/A           |                                | 1                 | 701.25                        | 701.25               |
| PROPOSED FACILITIES |                     |                                |                      |            |               |                                |                   |                               |                      |
|                     | PUMP STATION        |                                | 115.00               | 27.50      | N/A           |                                | 1                 | 3,162.50                      |                      |
|                     |                     | ELECTRICAL PUMP ROOM           | 10.25                | 10.17      | N/A           |                                | 1                 |                               | 104.25               |
|                     |                     | CHEMICAL PUMP ROOM             | 9.25                 | 10.17      | N/A           |                                | 1                 |                               | 94.07                |
|                     |                     | ODOR CONTROL AREA <sup>1</sup> | 35.83                | 26.17      | N/A           |                                | 1                 |                               | 662.23               |
|                     |                     | DUMPSTER AND SCREENINGS ROOM   | 31.83                | 24.83      | N/A           |                                | 1                 |                               | 790.34               |
|                     |                     |                                |                      |            |               |                                |                   | TOTAL FLOOR AREA              | 1,650.89             |
|                     |                     |                                |                      |            |               |                                |                   | FLOOR AREA RATIO              | 0.52                 |

1. ODOR CONTROL AREA IS "L" SHAPED, THE LONGEST DIMENSIONS IN EACH DIRECTION ARE PROVIDED AS WELL AS THE TOTAL FLOOR AREA.  
 TOTAL LAND AREA 38,787 SF.  
 PUMP STATION IS AN UNMANNED FACILITY WITH WEEKLY MAINTENANCE WORKERS STOPPING BY THE FACILITY. NO PARKING REQUIRED FOR SITE. NO DWELLING UNITS ON SITE.

- GENERAL NOTES:**
1. PROPOSED IMPROVEMENTS TO BE CONSTRUCTED IN 2024.
  2. SEE SHEETS 02C501 AND 02C502 FOR CHAIN LINK AND MONTAGE FENCE DETAILS.
  3. PROPOSED SIDEWALK SHOWN TO BE CONSTRUCTED BY CITY OF MISSION WITH AN ANTICIPATE DATE OF CONSTRUCTION IN 2024. THE PROJECT LIMITS WILL BE FROM 59TH STREET TO JOHNSON DRIVE.
  4. THE PROPOSED DIVERSION STRUCTURE SHOWN WILL BE COORDINATED WITH THE SIDEWALK PROJECT.
  5. PROVIDE TEMPORARY SIDEWALK AROUND THE EXISTING DIVERSION STRUCTURE. UPON REMOVAL THE SIDEWALK WILL BE CONSTRUCTED AS SHOWN.



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9/20/2021 4:53 PM  
Hardee, Ron



HDR  
 KANSAS CERTIFICATE OF AUTHORITY #E-67  
 10450 HOLMES ROAD  
 KANSAS CITY, MO 64131  
 816-360-2700

| ISSUE | DATE     | DESCRIPTION             |
|-------|----------|-------------------------|
| 1     | 09-20-21 | REVISED TO ADD SIDEWALK |
| 0     | 09-10-21 | SUBMITTAL SET           |

|                 |            |
|-----------------|------------|
| PROJECT MANAGER | MIKE KALIS |
| PROJECT NUMBER  | 10256802   |

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**Johnson County Wastewater  
 Rock Creek Pump Station  
 Preliminary Development Plan**



**SITE PLANNING  
 ENLARGED SITE PLAN**

FILENAME | 10C102.dwg  
 SCALE | 1"=20'

SHEET  
**10C102**



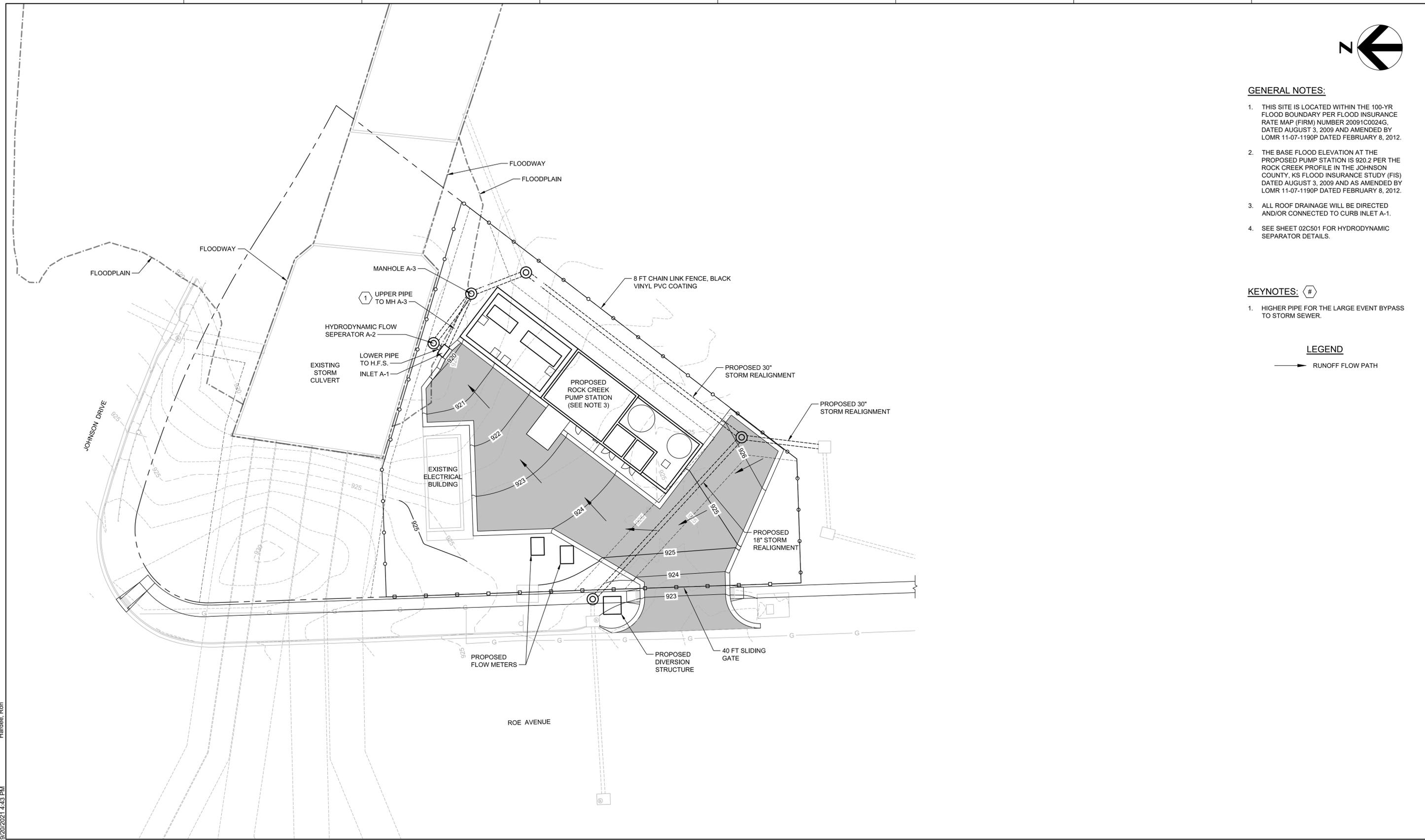
**GENERAL NOTES:**

1. THIS SITE IS LOCATED WITHIN THE 100-YR FLOOD BOUNDARY PER FLOOD INSURANCE RATE MAP (FIRM) NUMBER 20091C0024G, DATED AUGUST 3, 2009 AND AMENDED BY LOMR 11-07-1190P DATED FEBRUARY 8, 2012.
2. THE BASE FLOOD ELEVATION AT THE PROPOSED PUMP STATION IS 920.2 PER THE ROCK CREEK PROFILE IN THE JOHNSON COUNTY, KS FLOOD INSURANCE STUDY (FIS) DATED AUGUST 3, 2009 AND AS AMENDED BY LOMR 11-07-1190P DATED FEBRUARY 8, 2012.
3. ALL ROOF DRAINAGE WILL BE DIRECTED AND/OR CONNECTED TO CURB INLET A-1.
4. SEE SHEET 02C501 FOR HYDRODYNAMIC SEPARATOR DETAILS.

**KEYNOTES:** #

1. HIGHER PIPE FOR THE LARGE EVENT BYPASS TO STORM SEWER.

**LEGEND**



10C103.dwg  
9/20/2021 4:43 PM  
Hardee, Ron



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| PROJECT MANAGER | MIKE KALIS |
| PROJECT NUMBER  | 10256802   |

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RECORDING**



**Johnson County Wastewater  
Rock Creek Pump Station  
Preliminary Development Plan**

**SITE PLANNING  
GRADING AND DRAINAGE PLAN**



FILENAME | 10C103.dwg  
SCALE | 1"=20'

SHEET  
**10C103**

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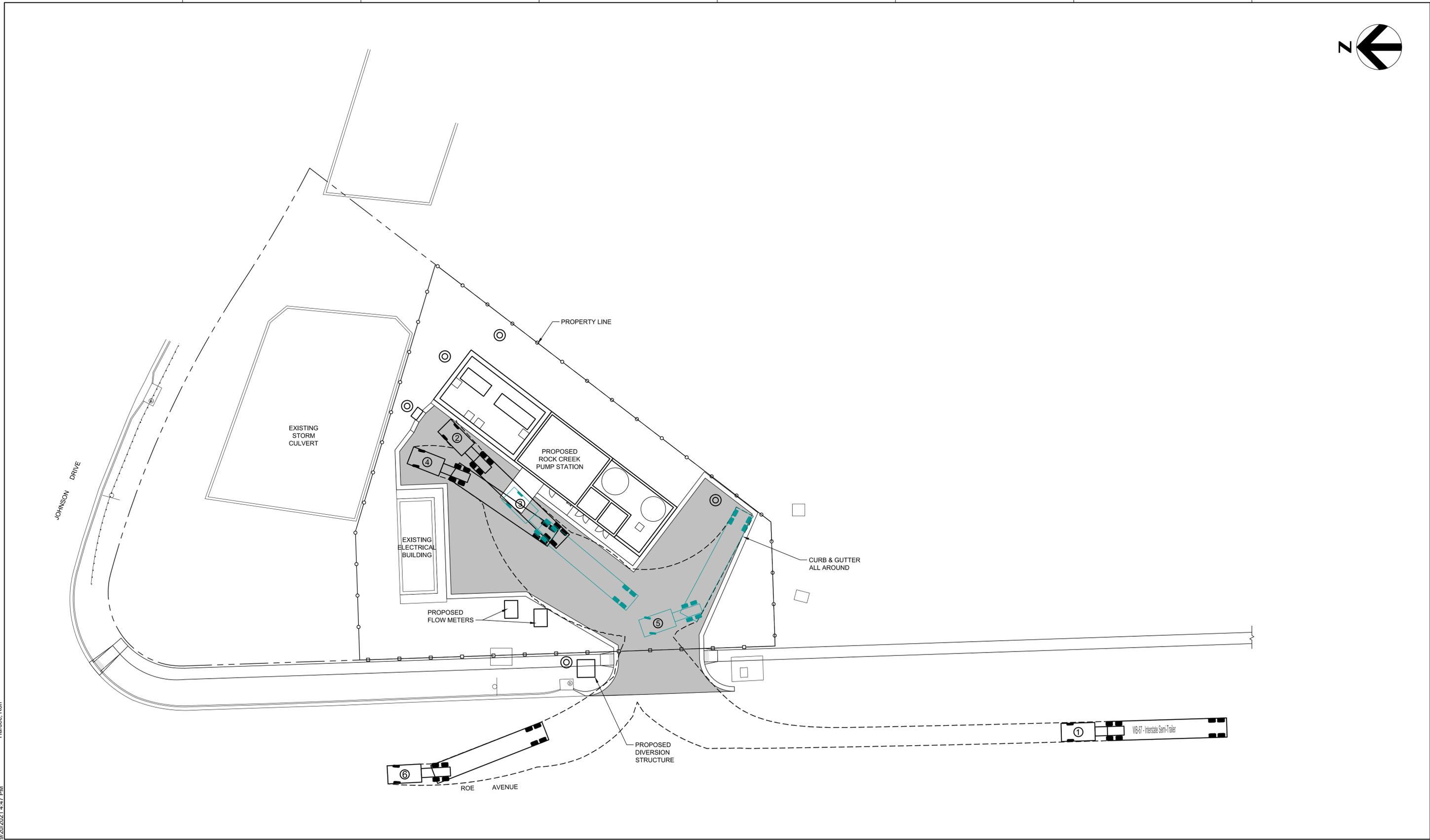
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8



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Hardee, Ron



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|                 |            |
|-----------------|------------|
| PROJECT MANAGER | MIKE KALIS |
| PROJECT NUMBER  | 10256802   |

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**Johnson County Wastewater  
Rock Creek Pump Station  
Preliminary Development Plan**



**SITE PLANNING  
TRUCK TURNING RADIUS PLAN**

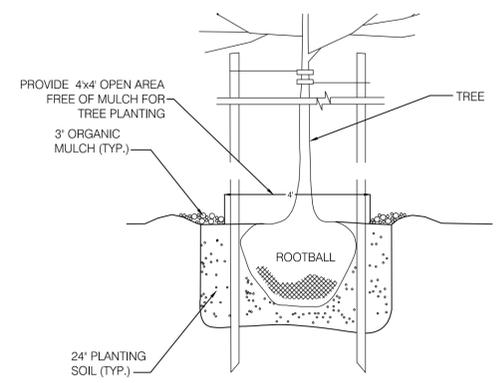
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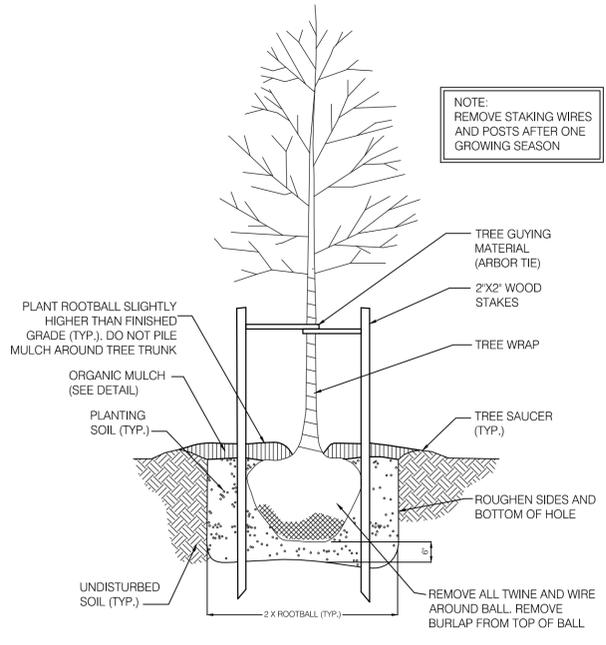


**LANDSCAPE PLAN NOTES:**

- LANDSCAPE AND STREETSCAPE REQUIRED BY THE MUNICIPAL CODE OF THE CITY OF MISSION ZONING ORDINANCE SHALL BE MAINTAINED FOR THE LIFE OF THE PRINCIPAL LAND USE. DAMAGED OR DEAD STREETSCAPE AND LANDSCAPE VEGETATION SHALL BE REPLACED OR REPAIRED SO THAT THE REQUIREMENTS ARE MET AT ALL TIMES.
- ALL LANDSCAPING AND TREES SHALL BE INSTALLED IN CONFORMANCE WITH THE PRACTICES AND PROCEDURES ESTABLISHED BY THE MOST RECENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1) AS PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- LANDSCAPING SHALL BE FULLY INSTALLED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. IF SEASONAL CONDITIONS PRECLUDE THE COMPLETE INSTALLATION, A TEMPORARY CERTIFICATE OF OCCUPANCY MAY BE ISSUED.
- ALL INSTALLED PLANT MATERIAL SHALL BE FULLY MAINTAINED UNTIL ESTABLISHED, INCLUDING WATERING, MULCHING, FERTILIZING, AND REPLACEMENT AS NECESSARY.
- THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. NO EXCAVATION WILL BE PERMITTED UNTIL BURIED UTILITIES HAVE BEEN LOCATED. POTHOLE ALL EXISTING UTILITIES IN GENERAL WORK AREA PRIOR TO EXCAVATION. FOR UTILITIES LOCATED OUTSIDE OF THE FENCELINE, THE CONTRACTOR SHALL CALL IOWA ONE CALL, 811, FOR UTILITY STAKING PRIOR TO DIGGING.
- WHEN DISCREPANCIES OCCUR BETWEEN QUANTITIES OF PLANTS IN SCHEDULE OR ON DRAWINGS, THE DRAWINGS WILL GOVERN.



**ORGANIC MULCH**  
NOT TO SCALE

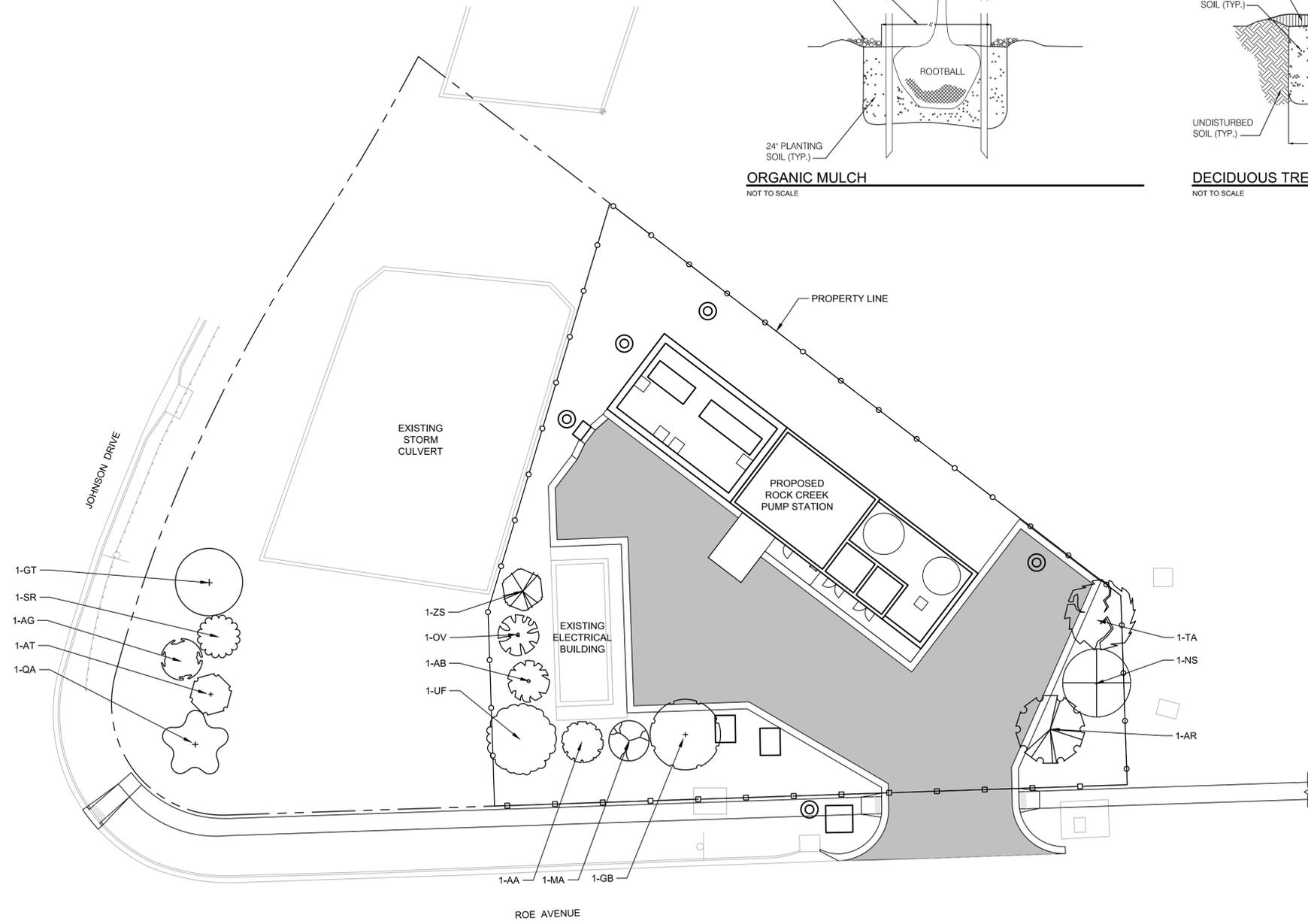


**DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE

| LANDSCAPE SUMMARY              |   |                 |
|--------------------------------|---|-----------------|
| ITEM                           | REQUIREMENTS  | PROVIDED        |
| STREET TREES                   | 1 TREE PER 50 L.F. OF STREET FRONTAGE<br>• ROE AND JOHNSON DR. FRONTAGE = 515 L.F.<br>• 515 L.F. / 50 = 11 TREES REQUIRED | 11 STREET TREES |
| OPEN SPACE BUFFER              | 1 TREE PER 3,000 S.F. OF LANDSCAPED OPEN SPACE<br>• 11,500 S.F. OF OPEN SPACE / 3,000 = 4 TREES                           | 4 TREES         |
| INTERIOR PARKING LOT LANDSCAPE | 1 TREE PER 20 CARS OF PARKING LOT<br>• NO PARKING LOT   | 0 TREES         |
| EXISTING TREE CREDIT           | 1 CREDIT PER EACH EXISTING TREE >4 INCHES SAVED ON SITE.<br>• NO EXISTING TREES EXIST ON SITE                             | 0 TREES         |

**LANDSCAPE SCHEDULE:**

| SYMB                           | KEY | QTY.   | BOTANICAL NAME                 | COMMON NAME | SIZE | ROOT |
|--------------------------------|-----|--|--------------------------------|-------------|------|------|
| <b>SHADE (OVERSTORY) TREES</b> |     |  |                                |             |      |      |
| AA                             | 1   | ACER TATARICUM                                 | TATARUM MAPLE                  | 2"          | B&B  |      |
| AB                             | 1   | ACER BUERGERIANUM                              | TRIDENT MAPLE                  | 2"          | B&B  |      |
| AG                             | 1   | ACER GRISEUM                                   | PAPERBARK MAPLE                | 2"          | B&B  |      |
| AR                             | 1   | ACER RUBRUM 'FRANKSRED'                        | RED SUNSET MAPLE               | 2"          | B&B  |      |
| AT                             | 1   | ACER TRUNCATUM X ACER PLATANOIDES 'KEITHSFORM' | NORWEGIAN SUNSET MAPLE         | 2"          | B&B  |      |
| GB                             | 1   | GINKGO BILOBA 'AUTUMN GOLD'                    | AUTUMN GOLD GINKGO             | 2"          | B&B  |      |
| GT                             | 1   | GLEDITSIA TRIACANTHOS 'SKYCOLE'                | SKYLINE HONEYLOCUST            | 2"          | B&B  |      |
| MA                             | 1   | MAACKIA AMURENSIS                              | AMUR MAACKIA                   | 2"          | B&B  |      |
| NS                             | 1   | NYSSA SYLVATICA                                | BLACK TUPELO                   | 2"          | B&B  |      |
| SR                             | 1   | SYRINGA RETICULATA 'IVORY SILK'                | IVORY SILK JAPANESE TREE LILAC | 2"          | B&B  |      |
| OV                             | 1   | OSTRYA VIRGINIANA                              | AMERICAN HOPHORNBEAM           | 2"          | B&B  |      |
| QA                             | 1   | QUERCUS ACUTISSIMA                             | SAWTOOTH OAK                   | 2"          | B&B  |      |
| TA                             | 1   | TILIA AMERICANA 'REDMOND'                      | REDMOND LINDEN                 | 2"          | B&B  |      |
| UF                             | 1   | ULMUS 'FRONTIER'                               | FRONTIER ELM                   | 2"          | B&B  |      |
| ZS                             | 1   | ZELKOVA SERRATA 'SCHMIDTFLOW'                  | WIRELESS ZELKOVA               | 2"          | B&B  |      |



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9/20/2021 4:47 PM  
Harder, Ron



HDR  
KANSAS CERTIFICATE OF AUTHORITY #E-67  
10450 HOLMES ROAD  
KANSAS CITY, MO 64131  
816-360-2700

| ISSUE | DATE     | DESCRIPTION             |
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| 1     | 09-20-21 | REVISED TO ADD SIDEWALK |
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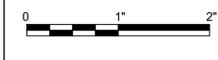
| PROJECT MANAGER |  |
|-----------------|--|
| MIKE KALIS      |  |
| PROJECT NUMBER  |  |
| 10256802        |  |

**PRELIMINARY  
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OR  
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**Johnson County Wastewater  
Rock Creek Pump Station  
Preliminary Development Plan**

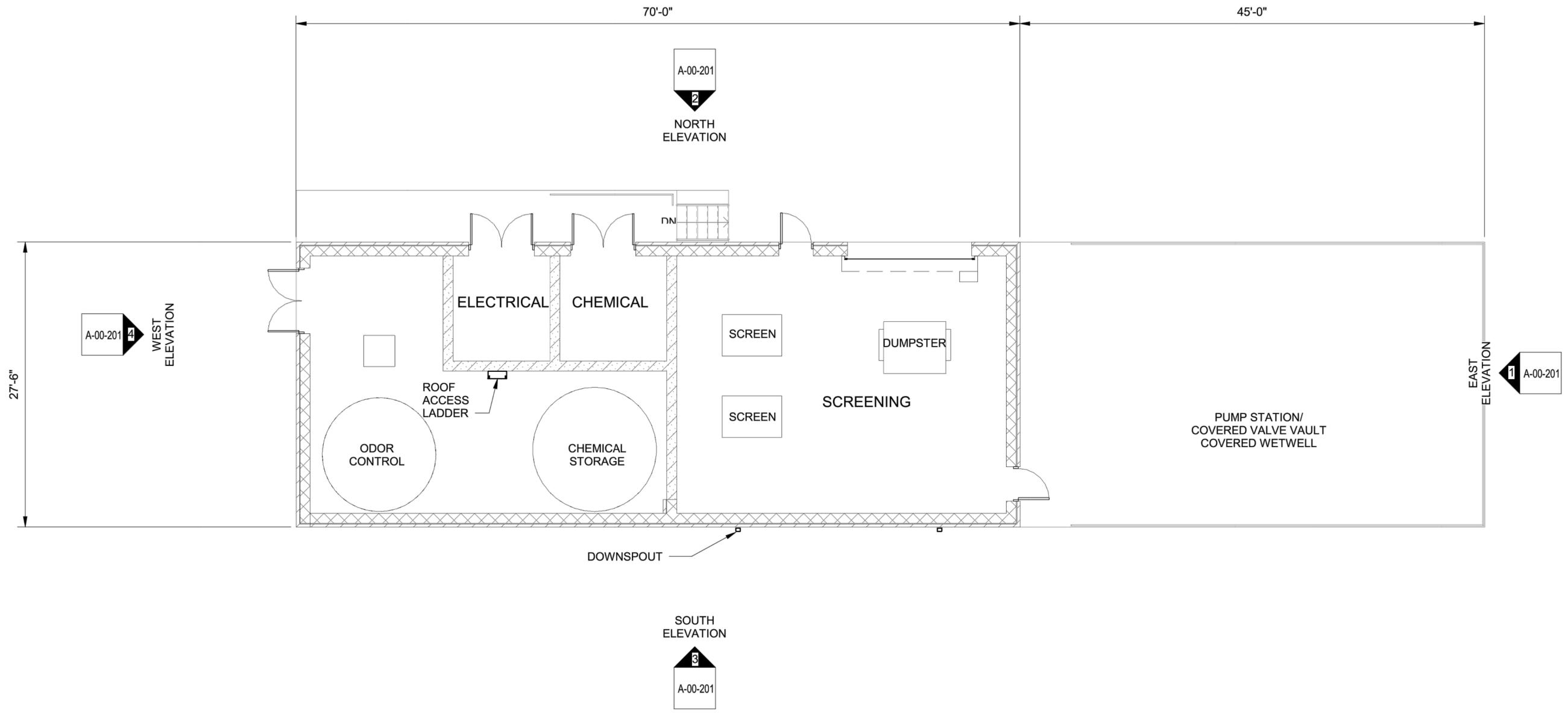
**LANDSCAPE PLAN**



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SHEET  
**10L101**

1 2 3 4 5 6 7 8



FLOOR PLAN

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Keyhill, Pat



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KANSAS CERTIFICATE OF  
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10450 HOLMES ROAD  
KANSAS CITY, MO 64131  
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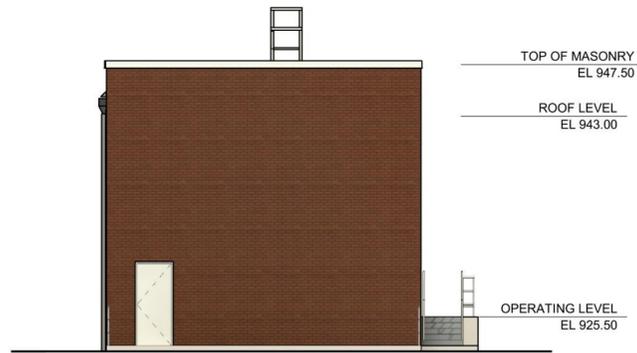
**Johnson County Wastewater  
Rock Creek Pump Station  
Preliminary Development Plan**



**PUMP STATION  
PLAN**

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SCALE | 3/16" = 1'-0"

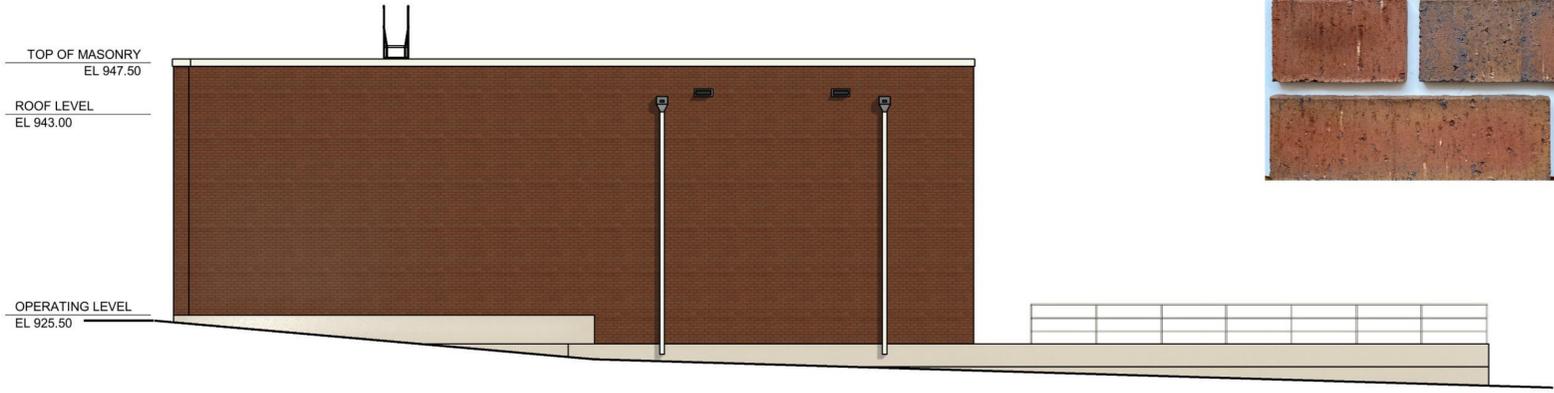
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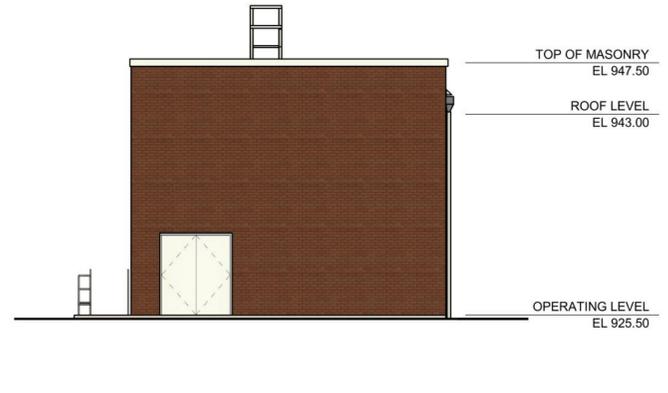
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1/8" = 1'-0"



**NORTH ELEVATION**  
1/8" = 1'-0"



**SOUTH ELEVATION**  
1/8" = 1'-0"



**WEST ELEVATION**  
1/8" = 1'-0"

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9/2/2021 1:47 PM  
Keyhill, Pat



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**Johnson County Wastewater  
Rock Creek Pump Station  
Preliminary Development Plan**



**PUMP STATION  
ELEVATIONS**

FILENAME | 20A201.dwg  
SCALE | AS NOTED

SHEET  
**20A201**

# JCW Rock Creek Pump Station Site City of Mission Planning Commission Meeting

September 27, 2021



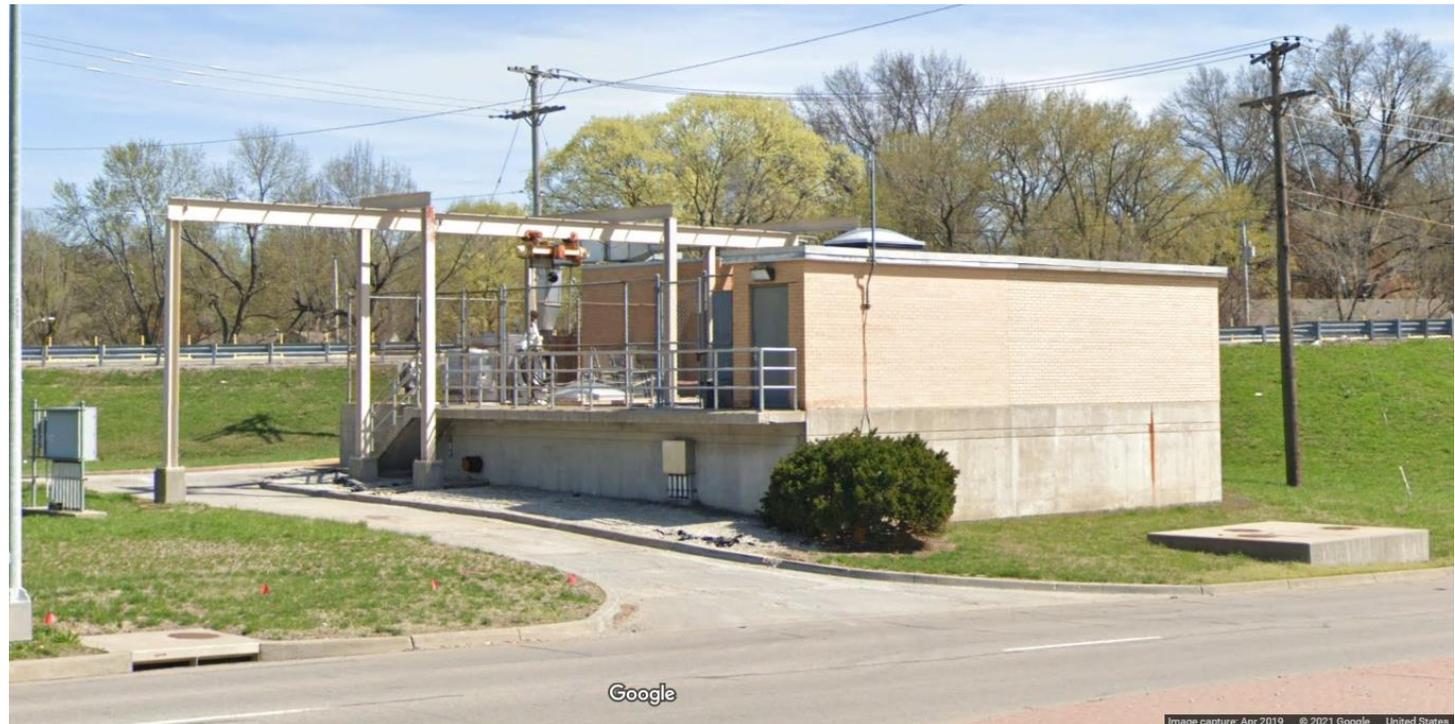
# Agenda

- Purpose
- JCW's Integrated Plan
- Nelson Complex Service Area
- Rock Creek Pump Station Improvement Plan
- Schedule

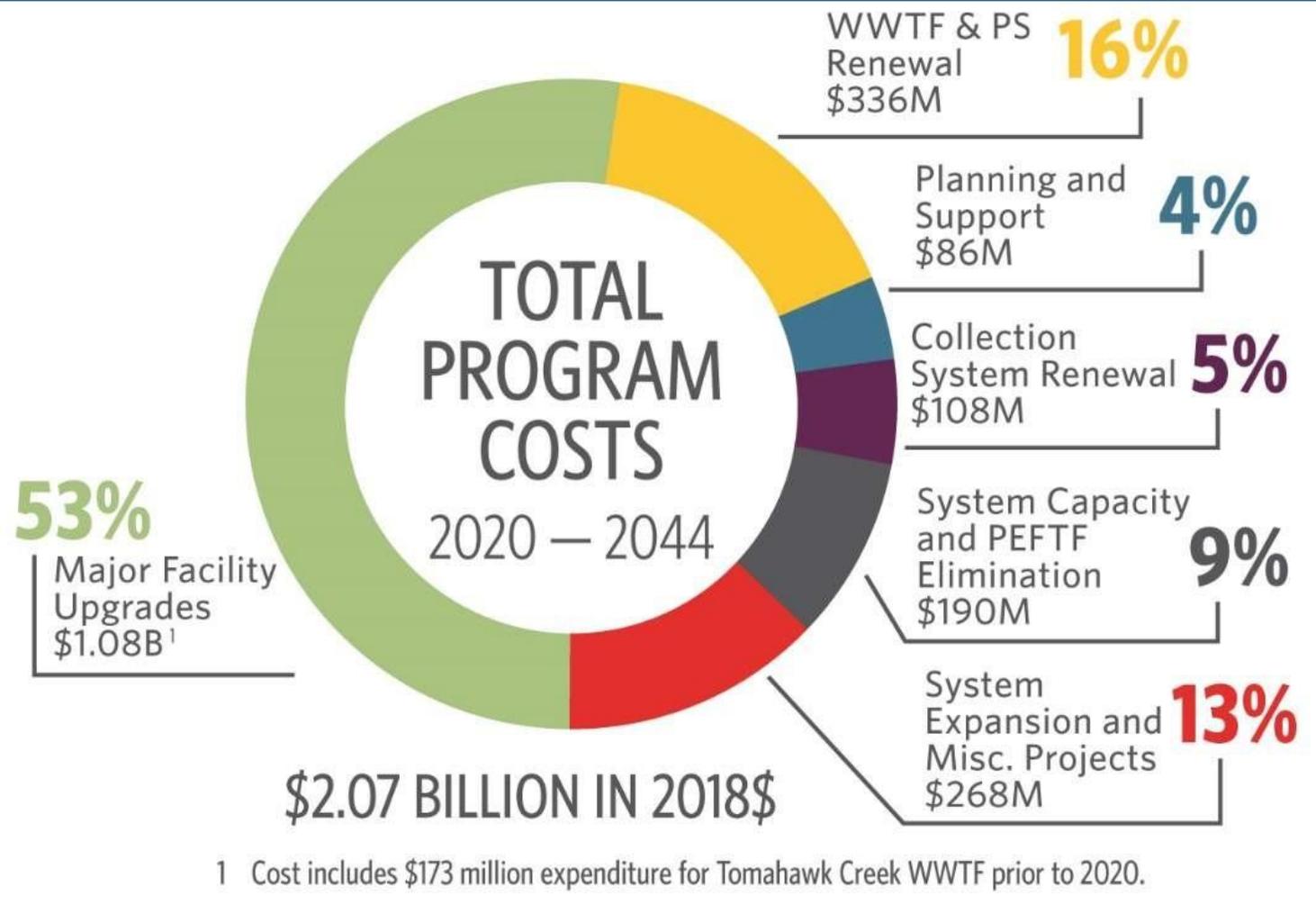


# Purpose

- To obtain Planning Commission recommendation of approval for:
  - Zoning
  - Preliminary Plat
  - Preliminary Development Plan
  - Special Use Permit



# 25-Yr Integrated Plan



# 25-Yr Integrated Plan

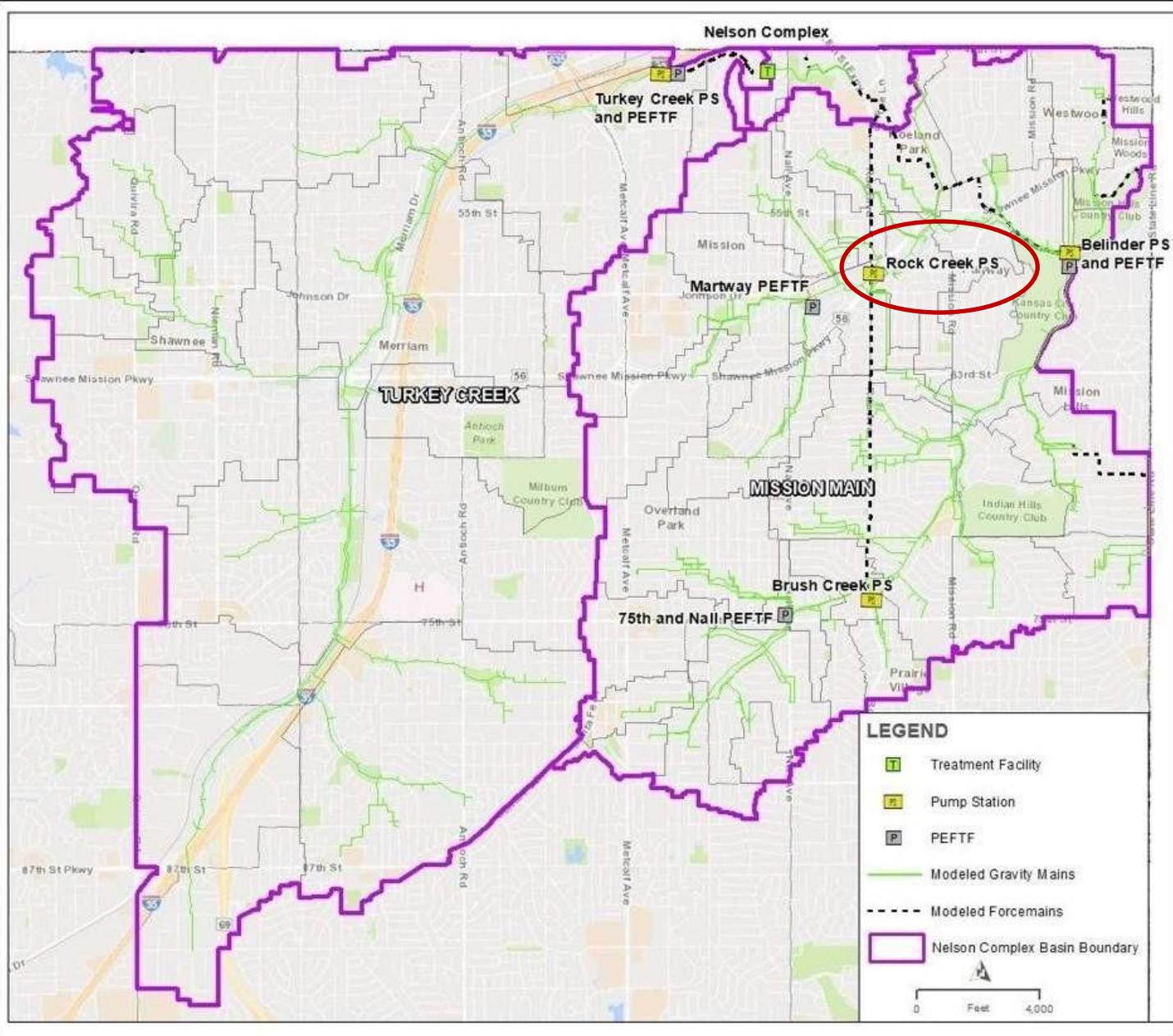
## JOHNSON COUNTY WASTEWATER | INTEGRATED PLAN 25-YEAR SCHEDULE

|  | CAPITAL COST<br>(2018 \$ x Million) | YEARS 1 - 5<br>2020 - 2024 | YEARS 6 - 10<br>2025 - 2029 | YEARS 11 - 15<br>2030 - 2034 | YEARS 16 - 20<br>2035 - 2039 | YEARS 21 - 25<br>2040 - 2044 |
|--|-------------------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
| <b>Major Facility Upgrades</b>                             |                                     |                            |                             |                              |                              |                              |
| Tomahawk WWTF Upgrade                                      | \$334 <sup>1</sup>                  |                            |                             |                              |                              |                              |
| Nelson Complex WWTF Upgrade                                | \$350                               |                            |                             |                              |                              |                              |
| Mill Creek WWTF Expansion and Upgrade                      | \$250                               |                            |                             |                              |                              |                              |
| Blue River WWTF Expansion                                  | \$150                               |                            |                             |                              |                              |                              |
| Collection System Renewal with Public Sector I/I Reduction | \$108                               |                            |                             |                              |                              |                              |
| <b>WWTF &amp; PS Renewal</b>                               |                                     |                            |                             |                              |                              |                              |
| PEFTF Interim Upgrades                                     | \$6                                 |                            |                             |                              |                              |                              |
| WWTF & PS Renewal  | \$330                               |                            |                             |                              |                              |                              |
| <b>System Capacity and PEFTF Elimination</b>               |                                     |                            |                             |                              |                              |                              |
| Turkey Creek Storage                                       | \$24                                |                            |                             |                              |                              |                              |
| Brush Creek Storage  | \$25                                |                            |                             |                              |                              |                              |
| Mill Creek Storage   | \$25                                |                            |                             |                              |                              |                              |
| Collection System Upgrades                                 | \$61                                |                            |                             |                              |                              |                              |
| I/I Reduction  | \$18                                |                            |                             |                              |                              |                              |
| PEFTF Elimination - Martway                                | \$18                                |                            |                             |                              |                              |                              |
| PEFTF Elimination - Turkey Creek                           | \$19                                |                            |                             |                              |                              |                              |
| PEFTF Elimination - 75th and Nall                          | — <sup>2</sup>                      |                            |                             |                              |                              |                              |
| PEFTF Elimination - Belinder                               | —                                   |                            |                             |                              |                              |                              |
| Miscellaneous Projects/Expansion                           | \$268                               |                            |                             |                              |                              |                              |
| Planning and Support                                       | \$86                                |                            |                             |                              |                              |                              |
| <b>TOTAL</b>   | <b>\$2.07 Billion</b>               |                            |                             |                              |                              |                              |

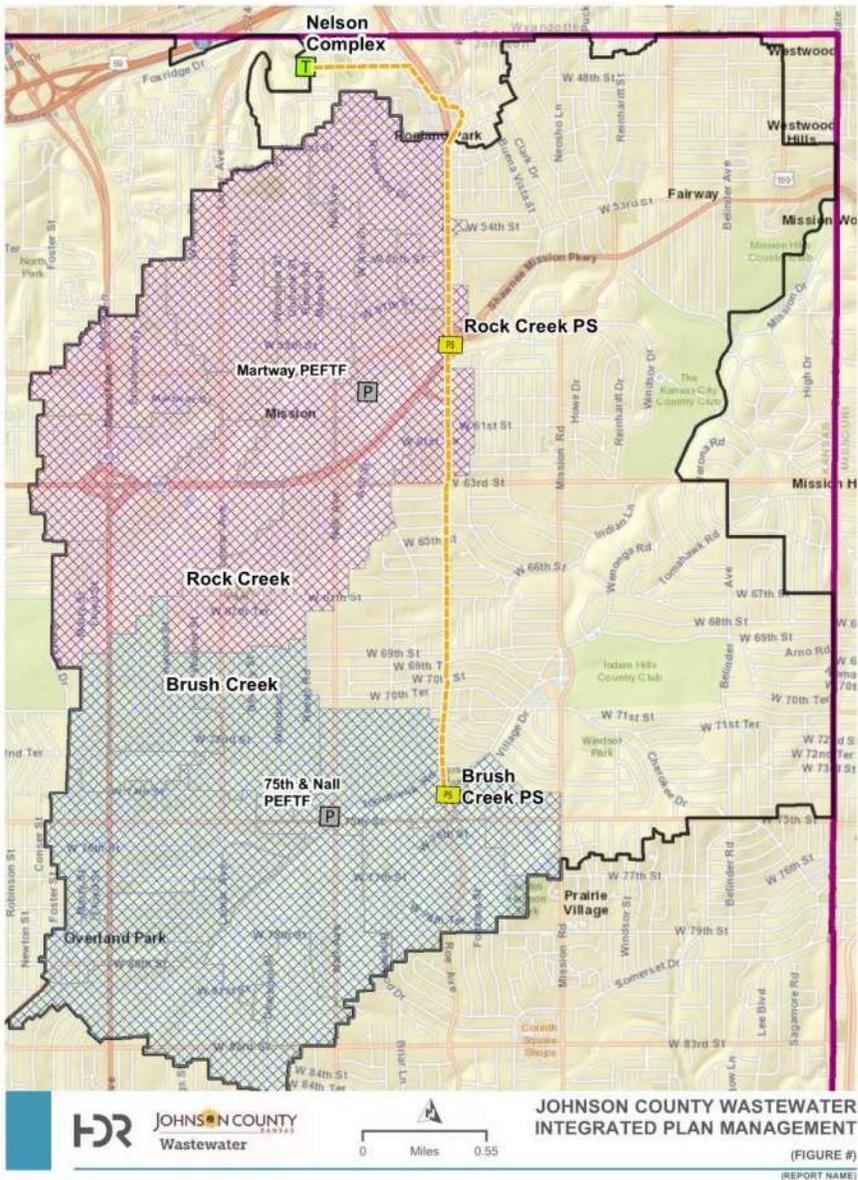
1 Cost includes \$173 million expenditure for Tomahawk Creek WWTF prior to 2020.  
 2 Addressed with Brush Creek Storage Project.



# Nelson Complex Service Area & Conveyance Facilities



# Rock Creek Service Area & Related Facilities



# Rock Creek Pump Station Capacity

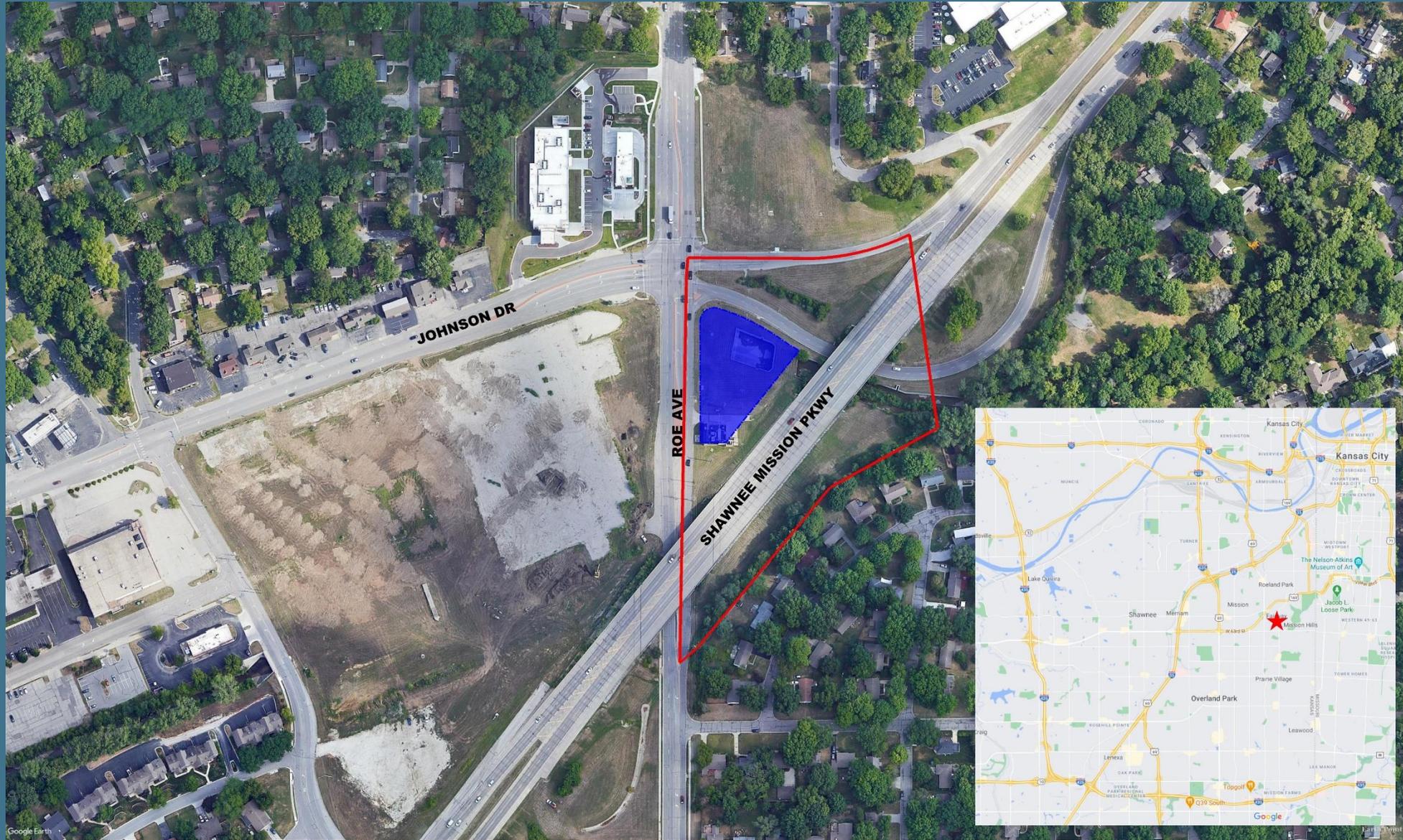
- Background: Pump Station in current location since the late 1950s
- Existing Capacity = 12 MGD
- Decommission Martway Satellite Treatment (PEFTF) (2030-2034)
  - Proposed Capacity = 24 MGD
- Future Capacity (Post 2040)
  - Up to 39 MGD depending on collection system improvements.

# Upgrade or Replace?



- Existing Pump Station Structure
  - No Room to Expand Existing Building
  - Currently Floods
  - Aged Equipment Near end of Useful Life
- Proposed Improvements
  - Electrical Building (2021 Construction)
  - Wet Well / Pumps / Etc. (2024-2028 Construction)

# KDOT Tract Limits and Proposed Acquisition

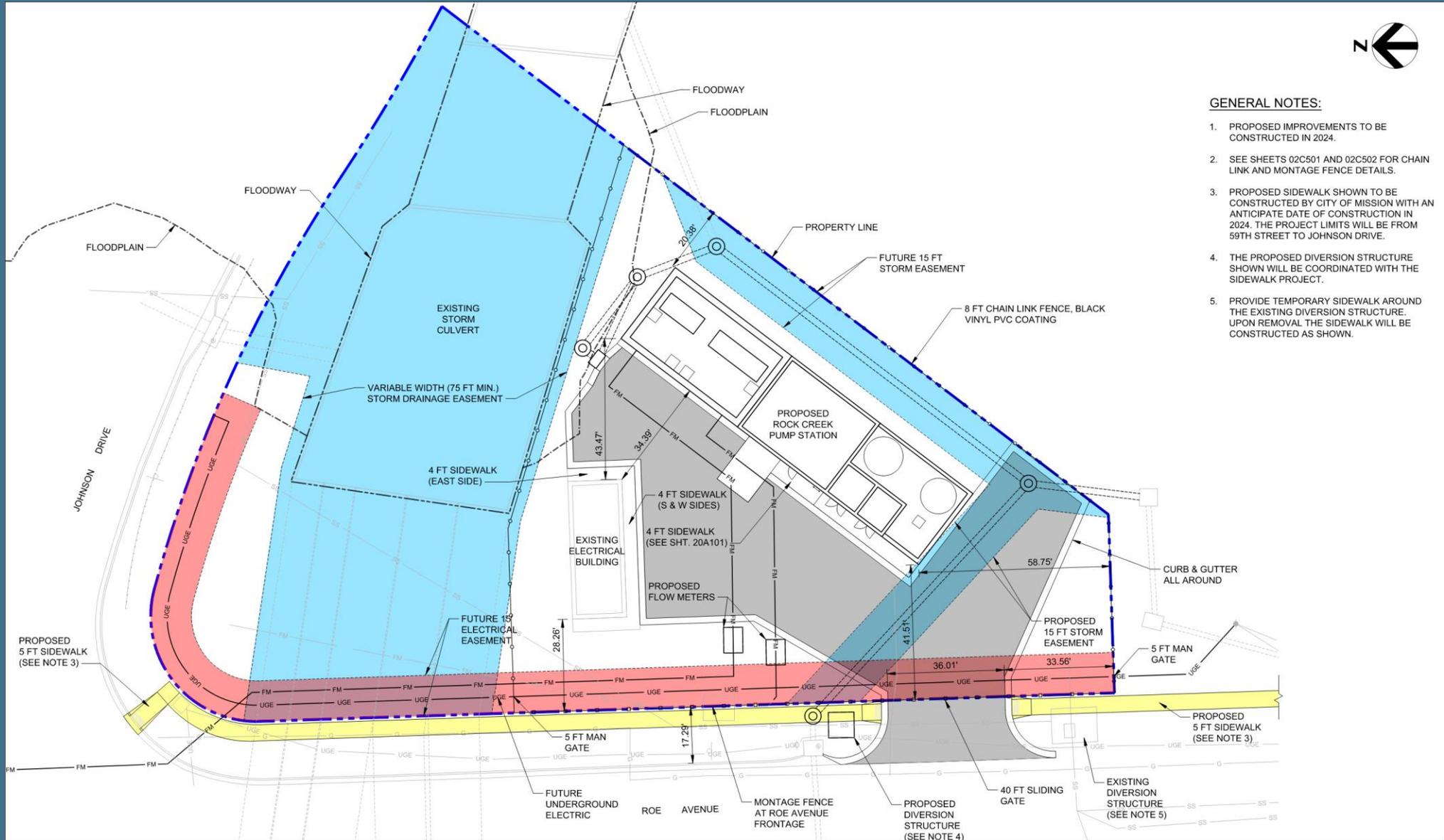


# Proposed Pump Station Layout



## GENERAL NOTES:

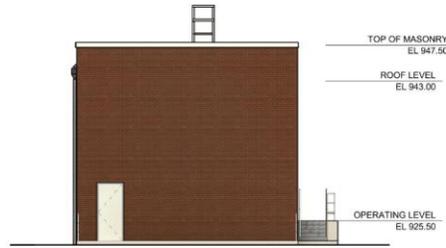
1. PROPOSED IMPROVEMENTS TO BE CONSTRUCTED IN 2024.
2. SEE SHEETS 02C501 AND 02C502 FOR CHAIN LINK AND MONTAGE FENCE DETAILS.
3. PROPOSED SIDEWALK SHOWN TO BE CONSTRUCTED BY CITY OF MISSION WITH AN ANTICIPATE DATE OF CONSTRUCTION IN 2024. THE PROJECT LIMITS WILL BE FROM 59TH STREET TO JOHNSON DRIVE.
4. THE PROPOSED DIVERSION STRUCTURE SHOWN WILL BE COORDINATED WITH THE SIDEWALK PROJECT.
5. PROVIDE TEMPORARY SIDEWALK AROUND THE EXISTING DIVERSION STRUCTURE. UPON REMOVAL THE SIDEWALK WILL BE CONSTRUCTED AS SHOWN.



# Proposed Pump Station Landscaping Plan



# Proposed Pump Station Elevation Views



EAST ELEVATION

1/8" = 1'-0"



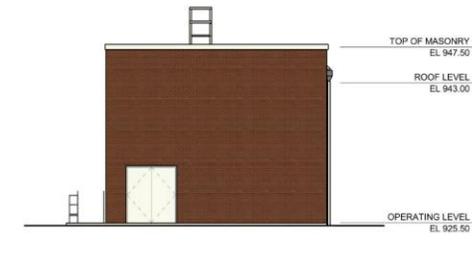
NORTH ELEVATION

1/8" = 1'-0"



SOUTH ELEVATION

1/8" = 1'-0"



WEST ELEVATION

1/8" = 1'-0"

# Proposed Pump Station Rendering



# Schedule

- Acquire Site
  - Ongoing
- Electrical Building
  - Construction 2021 - 2022
- Balance of Station
  - Design 2021 - 2023
  - Construction 2024 - 2028

# Questions?

# Public Outreach

## Upcoming Public Outreach:

- Nelson Project – in predesign phase right now
- Open House to understand concerns
  - September 29<sup>th</sup> at the Plant
  - September 30<sup>th</sup> – virtually on Zoom (sign up on website)
- Project Website: [JCNelson.com](http://JCNelson.com)

HOME RESIDENTS BUSINESS GOVERNMENT RECREATION ENVIRONMENT HEALTH

### NELSON WASTEWATER TREATMENT FACILITY IMPROVEMENTS PROJECT

Nelson The Project Where & When Engage FAQs Contact

## OPEN HOUSE

Wednesday, Sept. 29, 2021 | In Person  
Thursday, Sept. 30, 2021 | Online/Virtual

[Click Here to Learn More](#)

|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 7a.              |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>Administration</b>      | From:        | Laura Smith      |

Action items require a vote to recommend the item to the full City Council for further action.

**RE:** Ordinance Authorizing the Imposition of a Special  $\frac{3}{8}$ -percent (0.375%) Citywide Retailers' Sales Tax to Finance Transportation Related Improvements

**RECOMMENDATION:** Approve the ordinance imposing the special 3/8-percent citywide retailers' sales tax to finance transportation related improvements and providing notice to the State Director of Taxation requesting the sales tax commence on April 1, 2022 and expire on March 30, 2032.

**DETAILS:** For the last 12-18 months the City Council has been working to update the comprehensive street maintenance program to make decisions regarding renewal of the existing, dedicated  $\frac{1}{4}$ -cent street sales tax approved in December 2011 and sunseting in March 2022. Based on the needs identified, and resident's willingness to support increased investment in street maintenance, the Council elected to ask voters to consider renewing the special sales tax an increased rate of  $\frac{3}{8}$ -cent.

Mission voters were presented with the following question via a September 2021 mail ballot election:

*"Shall the City of Mission, Kansas, be authorized to renew the citywide retailers' sales tax currently imposed at one-fourth percent (0.250%) and impose such sales tax at an increased rate of three-eighths percent (0.375%), the collection of which shall commence on April 1, 2022 or as soon thereafter as permitted by law, and shall terminate ten years after its commencement, the proceeds of which shall be used to finance the costs of transportation improvements, including the construction and reconstruction of streets, bridges, sidewalks, curbs, gutters, trails, transit facilities, bicycle lanes, street lighting, traffic signalization, signage and landscape along rights-of-way and related improvements (the "Project"); all pursuant to the provisions of K.S.A. 12-187 et seq. and K.S.A. 25-431 et seq., as amended?"*

Voter turnout for the mail ballot election was 23.97%. The election results were certified on September 28, 2021 by the Johnson County Election Office as follows:

|                         |              |               |
|-------------------------|--------------|---------------|
| <b>Total Votes Cast</b> |              | 1,650         |
| <b>Yes</b>              | <b>1,273</b> | <b>77.15%</b> |
| <b>No</b>               | <b>377</b>   | <b>22.85%</b> |

The final step in the process requires the City Council to pass an ordinance to formally impose/levy the sales tax and provides for notice to be provided to the State Director of

|                                 |                      |
|---------------------------------|----------------------|
| Related Statute/City Ordinance: | K.S.A 12-187 et seq. |
| Line Item Code/Description:     | NA                   |
| Available Budget:               | NA                   |

|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 7a.              |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>Administration</b>      | From:        | Laura Smith      |

Action items require a vote to recommend the item to the full City Council for further action.

Taxation that the sales tax will become effective on April 1, 2022 and expire on March 30, 2032. The ordinance has been prepared by Gilmore & Bell for Council consideration.

**CFAA CONSIDERATIONS/IMPACTS:** Maintaining an efficient street network in both residential and commercial areas of the community allow for residents and visitors to safely travel to and from home, work, school, and shopping.

|                                 |                             |
|---------------------------------|-----------------------------|
| Related Statute/City Ordinance: | K.S.A 12-187 <i>et seq.</i> |
| Line Item Code/Description:     | NA                          |
| Available Budget:               | NA                          |

**EXCERPT OF MINUTES OF A MEETING  
OF THE GOVERNING BODY OF  
THE CITY OF MISSION, KANSAS  
HELD ON OCTOBER 20, 2021**

The governing body met in regular session at the usual meeting place in the City of Mission at 7:00 p.m. The Mayor presided and the following members of the governing body were present:

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The following members of the governing body were absent:

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The Mayor declared that a quorum was present and called the meeting to order.

(Other Proceedings)

Thereupon, an Ordinance was presented entitled:

**AN ORDINANCE OF THE CITY OF MISSION, KANSAS, AUTHORIZING THE IMPOSITION OF A SPECIAL THREE-EIGHTHS PERCENT (0.375%) CITYWIDE RETAILERS' SALES TAX TO FINANCE THE COSTS OF TRANSPORTATION IMPROVEMENTS AND RELATED COSTS FOR A PERIOD OF TEN YEARS.**

Thereupon, Councilmember \_\_\_\_\_ moved that said Ordinance be passed. The motion was seconded by Councilmember \_\_\_\_\_. Said Ordinance was duly read and considered, and upon being put, the motion for the passage of said Ordinance was carried by the vote of the governing body, the vote being as follows:

Aye:

Nay:

Thereupon, the Mayor declared said Ordinance duly passed and the Ordinance was then duly numbered Ordinance No. \_\_\_\_\_, was signed and approved by the Mayor and attested by the Clerk and was directed to be published one time in the official newspaper of the City. The City Clerk was further directed to forward a certified copy of the Ordinance to the State Director of Taxation.

\* \* \* \* \*

(Other Proceedings)

**CERTIFICATE**

I hereby certify that the foregoing Excerpt of Minutes is a true and correct excerpt of the proceedings of the governing body of City of Mission, Kansas held on the date stated therein, and that the official minutes of such proceedings are on file in my office.

(SEAL)

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City Clerk

(PUBLISHED IN *THE LEGAL RECORD* ON OCTOBER \_\_\_\_, 2021)

ORDINANCE NO. \_\_\_\_\_

**AN ORDINANCE OF THE CITY OF MISSION, KANSAS, AUTHORIZING THE IMPOSITION OF A SPECIAL THREE-EIGHTHS PERCENT (0.375%) CITYWIDE RETAILERS' SALES TAX TO FINANCE THE COSTS OF TRANSPORTATION IMPROVEMENTS AND RELATED COSTS FOR A PERIOD OF TEN YEARS.**

**WHEREAS**, by Resolution No. 1080 adopted by the Governing Body of City of Mission, Kansas (the "City") on June 16, 2021, the Governing Body authorized and provided for a special question election in the City for the purpose of submitting to the qualified electors of the City the proposition to impose a three-eighths percent (0.375%) citywide retailers' special purpose sales tax, the collection of which to commence on April 1, 2022 or as soon thereafter as permitted by law and shall terminate ten years after its commencement, the proceeds of which shall be used to finance the costs of transportation improvements, including the construction and reconstruction of streets, bridges, sidewalks, curbs, gutters, trails, transit facilities, bicycle lanes, street lighting, traffic signalization, signage and landscape along rights-of-way and related improvements (the "Sales Tax") pursuant to the authority of K.S.A. 12-187 *et seq.*, (the "Sales Tax Act"); and

**WHEREAS**, a special question mail ballot election was held in the City on September 21, 2021 at which time there was submitted to the qualified electors of the City the aforementioned proposition, and a majority of the qualified electors of the City voting on this proposition voted in favor thereof; and

**WHEREAS**, pursuant to the Sales Tax Act and the results of the aforementioned special question election, the Governing Body deems it necessary and advisable to authorize the imposition of the Sales Tax.

**NOW, THEREFORE, BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF MISSION, KANSAS, AS FOLLOWS:**

**SECTION 1.** The imposition of the Sales Tax is hereby authorized pursuant to the provisions of the Sales Tax Act.

**SECTION 2.** The City Clerk shall provide a certified copy of this Ordinance to the State Director of Taxation and request that the Sales Tax commence on April 1, 2022 and shall expire on March 30, 2032.

**SECTION 3.** This Ordinance shall take effect and be in full force from and after its passage by the governing body of the City, approval by the Mayor and publication in the official City newspaper.

**PASSED** by the governing body of the City on October 20, 2021 and **APPROVED AND SIGNED** by the Mayor.

(SEAL)

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Ronald E. Appletoft, Mayor

ATTEST:

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Audrey McClanahan, City Clerk

STATISTICS

|                           | TOTAL  |
|---------------------------|--------|
| Registered Voters - Total | 6,897  |
| Ballots Cast - Total      | 1,653  |
| Ballots Cast - Blank      | 3      |
| Voter Turnout - Total     | 23.97% |

City of Mission City of Mission

Vote For 1

|                         | TOTAL        | VOTE %         |
|-------------------------|--------------|----------------|
| Yes                     | 1,273        | 77.15%         |
| No                      | 377          | 22.85%         |
| <b>Total Votes Cast</b> | <b>1,650</b> | <b>100.00%</b> |
| Overvotes               | 0            |                |
| Undervotes              | 3            |                |
| Contest Totals          | 1,653        |                |

|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 7b.              |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>POLICE</b>              | From:        | Kirk Lane        |

Action items require a vote to recommend the item to full City Council for further action.

**RE:** Adoption of the *Standard Traffic Ordinance (STO)* and *Uniform Public Offense Code (UPOC)* Code Books for 2021, and deletion of Chapter 215, Article III of Mission’s Municipal Code related to drugs.

**RECOMMENDATION:** Approve the ordinances adopting the 2021 editions of the *Standard Traffic Ordinance for Kansas Cities-48<sup>th</sup> edition (STO)* and the *Uniform Public Offense Code for Kansas Cities-37<sup>th</sup> edition (UPOC)*, as published by the League of Kansas Municipalities. In addition, approve an ordinance deleting *Chapter 215, Article III, Offenses Concerning Drugs from the Code of the City of Mission*.

**DETAILS:** The *Uniform Public Offense Code* and the *Standard Traffic Ordinance* have been published by the League of Kansas Municipalities since 1980. They are updated each legislative session and are designed to provide a comprehensive public offense ordinance and a comprehensive traffic code for Kansas cities. They do not take effect in a city until the Governing Body has passed and published ordinances incorporating them. When properly incorporated by reference, it is not necessary to publish the entirety of the codes, just the ordinances.

Currently, the police department and court are utilizing the 2020 versions of the above referenced codes. The 2021 versions became effective July 1, 2021, but we wait until the updated (printed) versions are available through the League before bringing the action item forward to the City Council. To maintain uniformity with agencies in the area, the State of Kansas, and the actions of the State Legislature, it is recommended that these codes be adopted. The City also has the ability to use the ordinances to address local issues which the City may want to address differently.

There were minor changes and additions made to the 2021 version of the STO, which include:

- The addition of section 10.1, *Funeral Processions*, which allows for funeral escorts to direct traffic, disregard traffic control devices, and requires notification of a funeral procession to be made to the Police Department. This new section also spells out expectations of drivers in funeral processions.

|                                 |                           |
|---------------------------------|---------------------------|
| Related Statute/City Ordinance: |                           |
| Line Item Code/Description:     | 01-30-206-03 Publications |
| Available Budget:               | \$2,500                   |

|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 7b.              |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>POLICE</b>              | From:        | Kirk Lane        |

Action items require a vote to recommend the item to full City Council for further action.

- Section 119, *Parades and Processions*. This section was amended to remove funeral processions due to the new section 10.1 which now addresses funeral processions separately. Similar to section 10.1, this requires that the Chief of Police be notified of any parade of persons or vehicles that is scheduled to occur. The Chief of Police, or a designee then determines if a police escort is warranted.
- Section 31, *Fleeing or Attempting to Elude a Police Officer* was updated to reflect the language in SB 60 where the intent language was modified from “willfully” to “knowingly.”
- Section 40.2, *Passing a Stationary Authorized Utility or Telecommunications Vehicle* was added. This new section requires drivers to move over and/or slow down when passing a stationary utility or telecommunications vehicle similar to the language regarding passing a stationary emergency vehicle.
- Section 126.1, *Display of License Plate* was added, which regulates the location of license plates on a vehicle, as well as forbidding license plate covers which cover all or part of a license plate.
- Section 201.1, *Failure to Comply with a Traffic Citation* was amended to include a process for waiving fines and/or court costs in the event paying the fines would create a hardship.

The UPOC also amended and added several sections in the 2021 version. Of particular interest are:

- Section 3.2.1, *Sexual Battery* was amended to remove the spousal exception.
- Section 6.7.2, *Trespassing on a Critical Infrastructure Facility* was added and will have implications in Mission at the AT&T building, Entercom, the JCW Nelson Wastewater facility, other JCW pumping stations, WaterOne facilities in Waterworks Park, and cell tower locations. This raises the severity to a Class A Misdemeanor.
- Section 7.5, *Distribution of Unattributed Applications for Advance Voting Ballots*, was added to include requirements for disclosure of the group or organization responsible for distributing the information.
- Section 7.14, *Electioneering* was amended to include limitations for when a ballot can be handled by a candidate.
- Section 9.3, *Violation of Executive Order* was added which allows an

|                                 |                           |
|---------------------------------|---------------------------|
| Related Statute/City Ordinance: |                           |
| Line Item Code/Description:     | 01-30-206-03 Publications |
| Available Budget:               | \$2,500                   |

|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 7b.              |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>POLICE</b>              | From:        | Kirk Lane        |

Action items require a vote to recommend the item to full City Council for further action.

enforcement mechanism for persons who knowingly violate an Executive Order that mandates a curfew or prohibits public entry into an area affected by a disaster.

The City has historically chosen to not adopt the following sections of the STO and UPOC due to having existing ordinances that better fit the Mission's needs:

In the *Standard Traffic Ordinance* those include:

- Article 7, Section 33 relating to maximum speed limits is deleted. Maximum speed limits are regulated by the Mission Municipal Code Section 310.010
- Article 20, section 204(b) relating to fines in school zones is deleted. School zone fines are regulated by Mission Municipal Code Section 300.035.

In the *Uniform Public Offense Code* those include:

- Article 10, Sections 10.24, 10.25, and 10.26 relating to smoking prohibitions are deleted. Smoking restrictions are regulated by Mission Municipal Code Chapter 225, Article III.
- Article 11, Section 11.11 relating to animal cruelty is deleted. Animal cruelty is regulated by Mission Municipal Code Chapter 210, Section 210.160.
- Article 11, Section 11.15 relating to dangerous animals at large is deleted. Dangerous animals at large are regulated by Mission Code, Chapter 210, Section 210.150.

Along with the printed code books, licenses for electronic versions of the STO and UPOC were purchased so that the information can be placed on the City's website and on computers in patrol vehicles and workstations used by the court and police department personnel. The cost for updated ordinances was \$893.18.

During the review of the STO and UPOC updates staff realized the city code relating to drug offenses had not been deleted after the UPOC began including all drug offenses. To insure there is no competition among ordinances, the City Attorney recommends deleting Chapter 215, Article III, Offenses Concerning Drugs from Mission's Municipal

|                                 |                           |
|---------------------------------|---------------------------|
| Related Statute/City Ordinance: |                           |
| Line Item Code/Description:     | 01-30-206-03 Publications |
| Available Budget:               | \$2,500                   |

|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 7b.              |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>POLICE</b>              | From:        | Kirk Lane        |

Action items require a vote to recommend the item to full City Council for further action.

codes.

There are two ordinances that have been prepared for Council action to adopt these changes from the 2021 STO and UPOC and fully incorporate them into Mission City Code. An additional ordinance to delete Chapter 215, Article III is also included for consideration. The City Attorney has developed and reviewed the ordinances included in the packet.

STO 48th Edition can be found [here](#).

UPOC 37th Edition can be found [here](#).

**CFAA CONSIDERATIONS/IMPACTS:** This Ordinance provides authority to the Police Department to enforce violations of traffic and criminal offenses, which aid in the safety, health, and welfare to both residents and visitors of the City of Mission.

|                                 |                           |
|---------------------------------|---------------------------|
| Related Statute/City Ordinance: |                           |
| Line Item Code/Description:     | 01-30-206-03 Publications |
| Available Budget:               | \$2,500                   |

# 2021 Changes to the Standard Traffic Ordinance and Uniform Public Offense Code

## Amanda Stanley, General Counsel

The 2021 legislative session was extremely busy. There were 116 bills enrolled, many impacting the Standard Traffic Ordinance (STO) and the Uniform Public Offense Code. This summary is to highlight the changes made to both publications.

### Changes to the 48<sup>th</sup> Edition of the STO

#### *Article 1 Definitions*

In Article 1 Definitions, the following have been amended: All-Terrain Vehicle (SB 95), Antique (HB 2165), Golf Cart (SB 95), and Recreational Off-Highway Vehicle (SB 95). There are also new definitions for Authorized Utility or Telecommunication Vehicle (SB 67), Funeral Escort (SB 67), Funeral Lead Vehicle (SB 67), and Funeral Procession (SB 67).

#### *New Section 10.1 Funeral Procession; Section 119 Parades and Processions*

SB 67 modified how funerals are treated under the traffic code. The STO previously contained provisions relating to funerals (that the organizers notify the chief of police, and that no driver not involved in the funeral procession insert themselves into the procession of vehicles) in sections 119, Parades and processions, and Section 120 Driving through Procession.

The new requirements in SB 67 are found in New Section 10.1 of the STO. The legislation sets out the duties of both the operators of vehicles in the funeral procession and of other vehicles and pedestrians who encounter funeral processions in the context of traffic laws and right-of-way at intersections. Cities are allowed to require prior notice of a planned funeral procession and make additional requirements that go beyond, but are not in conflict with, the requirements of the act.

Section 119 Parades and Processions has been updated to remove the funeral procession provisions now in New Section 10.1.

#### *Section 30.4 Impounded Motor Vehicle*

While this section was not modified, a new editor's note has been added drawing the reader's attention to SB 36 which amended the requirements for the disposition of such vehicle.

#### *Section 31 Fleeing or Attempting to Elude a Police Officer*

Section 31 has been amended to match the language in SB 60. The intent requirement has been modified to a knowingly standard (previously a willfully standard). The sentencing language has also been modified. SB 60 elevated certain offenses to a felony.

#### *New Section 40.2 Passing a Stationary Authorized Utility or Telecommunications Vehicle*

SB 67 created a new traffic offense for failing to move over when approaching an authorized utility or telecommunications vehicle. This is contained in New Section 40.2.

#### *Section 106 Transportation of Alcoholic Beverage*

A new editor's note has been added to Section 106. HB 2137 made several changes to Kansas alcohol statutes regarding liquor and CMB to go; however, K.S.A. 8-1599 regarding the transportation of said liquor or CMB was not amended to reflect the changes. An editor's note has been added to explain this discrepancy and list the requirements establishments must follow under HB 2137.

#### *Section 115 Unlawful Riding on Vehicles; Persons 14 years of age and older*

An eagle-eyed city attorney noticed an error in (c)(1) of this section in previous editions. It has been updated accordingly.

#### *New Section 126.1.1 Display of License Plate*

Section 126.1.1 has been added to the STO in response to HB 2167 which established new rules for the locations of license plates on certain types of vehicles.

### *Section 179 Spilling Loads on Highway*

Section 179 has been amended to match the changes made in SB 89.

### *Section 201.1 Failure to Comply with a Traffic Citation*

Section 201.1 was amended in SB 127 to allow a person who is assessed a fine or court costs for a traffic citation to petition the court for waiver of payment of the fine or costs at any time if the amount due will impose a manifest hardship on the person or the person's immediate family. The corresponding section has been updated to match the changes to state law.

## **Changes in the 37th Edition of the UPOC**

### *Section 1.1 Definitions*

Two definitions were modified in Section 1.1: Class A Club and Drinking Establishment (HB 2137).

### *Section 3.2.1 Sexual Battery*

Section 3.2.1 was amended to remove the spousal exception to sexual battery per SB 60. The editor's note was also updated in response to *City of Shawnee v. Adem*, 58 Kan. App. 2d 560 (2020).

### *Section 5.5 Watercraft*

Section 5.5 was updated in response to SB 142's new requirements for approved personal flotation devices.

### *Section 6.2 Intent; Permanently Deprive*

SB 60 made changes to this section of law when dealing with the theft of a motor vehicle. Those changes have been added to Section 6.2.

### *New Section 6.7.2 Trespassing on a critical infrastructure facility*

SB 172 created several new criminal offenses. One of the offenses, trespassing on a critical infrastructure facility, is a misdemeanor and has been added to the UPOC in New Section 6.7.2.

### *New Section 7.1 Unlawfully tampering with electronic monitoring equipment*

While not often used, municipal courts can require court ordered supervision in some instances. HB 2026 amended the offense of unlawfully tampering with electronic monitoring equipment. This has been added as new Section 7.1.

### *New Section 7.5 Distribution of unattributed applications for advance voting ballots*

This is a new election offense created in HB 2323. It has been added as new Section 7.5

### *Section 7.14 Electioneering.*

HB 2183 amended the offense of electioneering and added new limitations for when a ballot can be handled by a candidate.

### *New Section 9.3 Violation of Executive Order under K.S.A 48-925 mandating a curfew or prohibiting public entry*

The legislature made several changes to the Kansas Emergency Management Act in SB 40. One change relevant to the UPOC was making certain violations of executive orders mandating a curfew or prohibiting public entry criminal offenses. This has been added as New Section 9.3.

### *Section 11.3 Commercialization of Wildlife*

The Legislature fixed a grammatical error in K.S.A. 32-1005. This has been updated in Section 11.3.

**CITY OF MISSION  
ORDINANCE NO. \_\_\_\_\_**

AN ORDINANCE ADOPTING THE STANDARD TRAFFIC ORDINANCE 48th EDITION, PUBLISHED IN 2021, AND AMENDING THE CODE OF THE CITY OF MISSION.

BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF MISSION, KANSAS AS FOLLOWS:

**SECTION 1:** The traffic Code of the City of Mission, Chapter 300, Section 300.010 is hereby amended as follows:

**CHAPTER 300: GENERAL PROVISIONS**

**§300.010: INCORPORATING STANDARD TRAFFIC ORDINANCE**

There is hereby incorporated by reference for the purpose of regulating traffic within the corporate limits of the City of Mission, Kansas, that a certain "Standard Traffic Ordinance for Kansas Cities," 48th Edition, published in 2021, prepared and published in book form by the League of Kansas Municipalities, Topeka, Kansas, save and except such Articles, Sections, parts or portions as are hereby omitted, deleted, modified or changed. No fewer than three (3) copies of the Standard traffic Ordinance shall be marked or stamped "Official Copy as Incorporated by the Code of the City of Mission" with all sections or portions thereof intended to be omitted or changed clearly marked to show any such omissions or change and to which shall be attached a copy of this Chapter and filed with the City Clerk to be open to inspection and available to the public at all reasonable hours. The Police Department, Municipal Judge and all administrative departments of the City charged with enforcement of the Ordinance shall be supplied at the cost of the City, such number of official copies of such Standard Traffic Ordinance similarly marked as may be deemed expedient.

**SECTION 2:** Article 7, Section 33 relating to maximum speed limits is deleted. Maximum speed limits are regulated by the Mission Municipal Code Section 310.010.

**SECTION 3:** Article 20, Section 204(b) of said Standard Traffic Ordinance relating to fines in school zones is hereby deleted. School zone fines are regulated by Mission Municipal Code Section 300.035.

**SECTION 4:** This Ordinance shall take effect and be in full force from and after publication as required by law.

PASSED AND APPROVED by the City Council this 20th day of October, 2021.

APPROVED by the Mayor this 20<sup>th</sup> day of October, 2021.

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Ronald E. Appletoft, Mayor

ATTEST:

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Audrey M. McClanahan, City Clerk

APPROVED BY:

PAYNE & JONES, CHARTERED

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David K. Martin, City Attorney  
11000 King, Suite 200  
PO Box 25625  
Overland Park, KS 66225-5625

## ORDINANCE \_\_\_\_\_

AN ORDINANCE ADOPTING THE UNIFORM PUBLIC OFFENSE CODE, 37TH EDITION, PUBLISHED IN 2021, AND AMENDING THE CODE OF THE CITY OF MISSION.

BE IT ORDAINED by the Governing Body of the City of Mission, Kansas:

**SECTION 1:** Section 215.010 of the Code of the City of Mission, Kansas is hereby amended by adopting the Uniform Public Offense Code, 37th edition, published in 2021, as follows:

### **§215.010: Incorporating Uniform Public Offense Code.**

There is hereby incorporated by reference for the purpose of regulating public offenses within the corporate limits of the City of Mission, Kansas, that a certain code known as the "Uniform Public Offense Code," 37th Edition, published in 2021, prepared and published in book form by the League of Kansas Municipalities, Topeka, Kansas, save and except such Articles, Sections, parts or portions as are hereby omitted, deleted, modified or changed. No fewer than three (3) copies of the Uniform Public Offense Code shall be marked or stamped "Official Copy as Incorporated by the Code of the City of Mission" with all Sections or portions thereof intended to be omitted or changed clearly marked to show any such omissions or change and to which shall be attached a copy of this Chapter and filed with the City Clerk to be open to inspection and available to the public at all reasonable hours. The Police Department, Municipal Judge and all administrative departments of the City charged with enforcement of the Ordinance shall be supplied at the cost of the City such number of official copies of such Uniform Public Offense Code similarly marked as may be deemed expedient.

**SECTION 2:** Article 10, Sections 10.24, 10.25, and 10.26 relating to smoking prohibitions are deleted. Smoking restrictions are regulated by Mission Municipal Code Chapter 225, Article III.

**SECTION 3:** Article 11, Section 11.11 relating to animal cruelty is deleted. Animal cruelty is regulated by Mission Municipal Code Chapter 210, Section 210.160.

**SECTION 4:** Article 11, Section 11.15 relating to dangerous animals at large is deleted. Dangerous animals at large are regulated by Mission Code, Chapter 210, Section 210.150.

**SECTION 5:** This Ordinance shall be in full force and effect after publication according to law.

PASSED AND APPROVED by the City Council this      day of \_\_\_\_\_, 2021.

APPROVED by the Mayor this      day of \_\_\_\_\_, 2021.

---

Ronald E. Appletoft, Mayor

ATTEST:

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Audrey M. McClanahan, City Clerk

APPROVED BY:

PAYNE & JONES, CHARTERED

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David K. Martin, City Attorney  
11000 King, Suite 200  
PO Box 25625  
Overland Park, KS 66225-5625  
(913) 469-4100  
(913) 469-8182

**CITY OF MISSION  
ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE DELETING CHAPTER 215, ARTICLE III, OFFENSES  
CONCERNING DRUGS FROM THE CODE OF THE CITY OF MISSION, KANSAS.**

WHEREAS, THE UNIFORM PUBLIC OFFENSE CODE CONTAINS  
PROVISIONS CONCERNING ILLEGAL DRUGS; AND,

WHEREAS DELETING CHAPTER 215, ARTICLE III ELIMINATES THE  
POTENTIAL FOR COMPETITION AMOUNG ORDINANCES.

NOW, THEREFORE, BE IT ORDAINED BY THE GOVERNING BODY OF THE  
CITY OF MISSION, KANSAS AS FOLLOWS:

**SECTION 1:** The Uniform Public Offense Code for Kansas Cities prepared and published by the League of Kansas Municipalities contains provisions relating to illegal drug use. The provisions of The Code of the City of Mission, Kansas, Chapter 215, Article III and Sections thereof are to be deleted.

**SECTION 2:** The Code of the City of Mission, Kansas is hereby amended by deleting in its entirety Chapter 215, Article III, Sections 215.040, 215.050, 215.060, and 215.065 from the Code of the City of Mission.

**SECTION 3:** This Ordinance shall be in force and take effect from and after publication according to law.

PASSED AND APPROVED by the City Council this 20th day of October, 2021.

APPROVED by the Mayor this 20<sup>th</sup> day of October 2021.

\_\_\_\_\_  
Ronald E. Appletoft, Mayor

ATTEST:

\_\_\_\_\_  
Audrey M. McClanahan, City Clerk

APPROVED BY:

PAYNE & JONES, CHARTERED

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David K. Martin, City Attorney  
11000 King, Suite 200  
PO Box 25625  
Overland Park, KS 66225-5625

|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 7c.              |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>Police Department</b>   | From:        | Kirk Lane        |

Action items require a vote to recommend the item to the full City Council for further action.

**RE:** Proposed Amendment to City of Mission Municipal Code Section 210.170, related to animal trapping within the City.

**RECOMMENDATION:** Amend Chapter 210, Section 210.170, *Trapping Prohibited*, of the Mission Municipal Code to prohibit the use of certain animal traps.

**DETAILS:** Following an incident earlier this year staff was asked to research potential modifications to Chapter 210, Section 210.170 related to animal traps. The incident that spurred this request involved a wildlife control company placing a device known as a “dog-proof leg trap” to catch a raccoon.

These particular devices are spring loaded and designed to grab onto the legs of wildlife to immobilize them. Often, these devices cause significant injury to the wildlife, as was the case earlier this year. In this instance, a raccoon was trapped by the device which caused severe injury to its leg. The wildlife company who placed the trap was not going to remove the trapped raccoon for several hours. Ultimately, the Police Department’s Community Service Officer removed the trapped raccoon and humanely euthanized it to alleviate the concerns of residents.

Mission’s current code language does not prohibit the use of spring-loaded traps by wildlife control companies. The proposed code amendment would still allow for traditional cage-style traps to be used when combating wildlife nuisances, as well as mouse and rat traps. Many cities prohibit the use of spring-loaded traps, which is what amending this section will accomplish.

Both red-lined and clean copies of the proposed code changes are included in the packet for your review and information. In addition, an ordinance has been prepared to make the appropriate amendments to Section 210.170 of Mission’s Municipal Code.

**CFAA CONSIDERATIONS/IMPACTS:** Ordinances which provide for humane methods of handling nuisance wildlife add to the culture of the City that values, respects, and welcomes all, including the natural habitat of animals.

|                                 |  |
|---------------------------------|--|
| Related Statute/City Ordinance: |  |
| Line Item Code/Description:     |  |
| Available Budget:               |  |

**Section 210.170 Trapping Prohibited.**  
**[Ord. No. 1439 §3, 6-15-2016]**

- A. No person shall do any trapping anywhere in the City.
- B. *Exceptions.*
  - 1. This Section does not apply to the use of any trap specifically designed to kill rats, mice, gophers, moles, or vermin of significance to the public health.
  - 2. This Section does not apply to the use of cage-type live traps employed for the control of wild animals.
  - 3. This Section does not apply to actions taken by a law enforcement officer pursuant to the interests of public health and safety.
  - 4. This Section does not apply to actions taken by a professional rodent or wildlife control company.

Section 210.170 **Trapping Prohibited.**  
[Ord. No. 1439 §3, 6-15-2016]

- A. ~~No person shall do any trapping anywhere in the City. It shall be unlawful for any person to use, place, set out, or deploy any animal trap aboveground, which makes use of a spring gun, spring jaws, clamping device(s), cutting or stabbing mechanism, or any other device that will damage or severely injure any animal when caught or trapped by the device or trap.~~
- B. *Exceptions.*
  - 1. ~~This Section does not apply to the use of any trap specifically designed to kill rats, mice, gophers, moles, or vermin of significance to the public health. This Section shall not prohibit the use of mouse/rat traps.~~
  - 2. This Section does not apply to the use of cage-type live traps employed for the control of wild or non-domesticated animals.
  - 3. This Section does not apply to actions taken by a law enforcement officer, animal control officer, community service officer, or contractor hired by the City -pursuant to the interests of public health and safety.
  - 4. ~~This Section does not apply to actions taken by a professional rodent or wildlife control company.~~

**CITY OF MISSION  
ORDINANCE NO. \_\_\_\_\_**

**AN ORDINANCE AMENDING SECTION 210.170 OF THE CODE OF THE CITY OF MISSION, KANSAS REGULATING TRAPPING OF ANIMALS.**

NOW, THEREFORE, BE IT ORDAINED BY THE GOVERNING BODY OF THE CITY OF MISSION, KANSAS AS FOLLOWS:

**SECTION 1:** Section 210.170 of the Code of the City of Mission is hereby amended as follows:

Section 210.170. Trapping Prohibited.

- A. It shall be unlawful for any person to use, place, set out, or deploy any animal trap aboveground, which makes use of a spring gun, spring jaws, clamping device(s), cutting or stabbing mechanism, or any other device that will damage or severely injure any animal when caught or trapped by the device or trap.
- B. Exceptions.
  - 1. This Section shall not prohibit the use of mouse/rat traps.
  - 2. This Section does not apply to the use of cage-type live traps employed for the control of wild, or non-domesticated animals.
  - 3. This Section does not apply to actions taken by a law enforcement officer, animal control officer, community service officer, or contractor hired by the City pursuant to the interest of public health and safety.

**SECTION 2:** Prior provisions of Section 210.170 are hereby repealed.

**SECTION 3:** This Ordinance shall be in force and take effect from and after publication according to law.

PASSED AND APPROVED by the City Council this 20<sup>th</sup> day of October, 2021.

APPROVED by the Mayor this 20<sup>th</sup> day of October, 2021.

---

Ronald E. Appletoft, Mayor

ATTEST:

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Audrey McClanahan, City Clerk

APPROVED BY:

PAYNE & JONES, CHARTERED

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David K. Martin, City Attorney  
11000 King, Suite 200  
PO Box 25625  
Overland Park, KS 66225-5625

|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 7d.              |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>Administration</b>      | From:        | Laura Smith      |

Action items require a vote to recommend the item to the full City Council for further action.

**RE:** Resolution Endorsing the Regional Climate Action Plan

**RECOMMENDATION:** Approve the Resolution endorsing the KC Regional Climate Action Plan, recognizing its goal of a Net-Zero metropolitan region by 2050, and committing to review and implement, as appropriate, the solutions and strategies included in the plan.

**DETAILS:** Climate Action KC is a nonprofit regional collaborative bringing more than 100 elected officials and community leaders together to reduce emissions, invigorate the economy, promote public health and improve the quality of life across the Kansas City region.

Climate Action KC developed the [Kansas City Regional Climate Action Plan \(CAP\)](#) which aims to transform the metropolitan area into a more resilient, equitable and healthy community. An ambitious set of interrelated strategies will help to mitigate climate change by achieving net zero greenhouse gas emissions by 2050 and adapt to and bounce forward from the many risks climate change poses.

The Mid-America Regional Council and Climate Action KC have worked to bring together broad and diverse community perspectives and technical expertise to develop a set of goals and actions that comprise the Climate Action Plan. The plan creates a new platform to build on, intended to accelerate and scale up existing efforts through new models of collaborative regional leadership. Interim net zero goals focus on local government operations (by 2030), energy generation (by 2035), and homes and buildings (by 2040).

The plan was initially presented on April 28, 2021, in a joint work session with the City Council, as well as members from the Planning Commission, Parks, Recreation and Tree Commission and Sustainability Commission. Additionally, at their May 3, 2021, meeting the Sustainability Commission recommended the Council take the next step and approve a Resolution officially endorsing the Climate Action Plan.

A list of Mission's sustainability initiatives since 2008 is included in the packet for your information. During the Committee meeting, staff will review alternatives for how best to review, discuss and prioritize the various strategies, programs and services and make formal recommendations for implementation.

|                                 |    |
|---------------------------------|----|
| Related Statute/City Ordinance: | NA |
| Line Item Code/Description:     | NA |
| Available Budget:               | NA |

|                            |              |                  |
|----------------------------|--------------|------------------|
| <b>City of Mission</b>     | Item Number: | 7d.              |
| <b>ACTION ITEM SUMMARY</b> | Date:        | October 20, 2021 |
| <b>Administration</b>      | From:        | Laura Smith      |

Action items require a vote to recommend the item to the full City Council for further action.

**CFAA CONSIDERATIONS/IMPACTS:** Preparing for extremes in temperature protects Mission's most vulnerable residents including older adults and those with limited mobility.

|                                 |    |
|---------------------------------|----|
| Related Statute/City Ordinance: | NA |
| Line Item Code/Description:     | NA |
| Available Budget:               | NA |

**CITY OF MISSION, KANSAS**  
**RESOLUTION NO. \_\_\_\_\_**

**A RESOLUTION ENDORSING THE REGIONAL CLIMATE ACTION PLAN**

**WHEREAS**, Climate Action KC is a regional nonprofit formed to promote strategies and solutions that drawdown greenhouse emissions and promote economic opportunity and quality of life; and

**WHEREAS**, the Mid-America Regional Council is a nonprofit association of city and county governments and the metropolitan planning organization for the bistate Kansas City region; and

**WHEREAS**, Climate Action KC and the Mid-America Regional Council partnered together to complete a Regional Climate Action Plan containing a regional emissions inventory and climate risk and vulnerability assessment; and

**WHEREAS**, The Climate Action Plan contains a comprehensive set of goals and strategies that can be tailored to meet local community needs and priorities; and

**WHEREAS**, Climate Solutions build stronger, healthier, more vibrant and economically vital communities; and

**WHEREAS**, The plan serves 10 counties, 123 municipalities in two states, with a population of 2.14 million. In Kansas, these include Douglas, Johnson, Leavenworth, Miami and Wyandotte counties; in Missouri, the planning area includes Cass, Clay, Jackson, Platte and Ray counties; and

**WHEREAS**, Over 1,000 regional residents participated in the planning, prioritization, and drafting within the Climate Action Plan; and

**WHEREAS**, success will only be achieved if there is equitable access to the benefits among the entire population of the metropolitan area without regard to race, gender, ethnicity, religion, nationality, sexual orientation, income, age, disability or any other classification;

**NOW, THEREFORE,** be it resolved by the Governing Body of the City of Mission:

We endorse the KC Regional Climate Action Plan

And recognize its goal of a Net-Zero metropolitan region by 2050.

And further resolve to review and implement, as appropriate, the solutions and strategies enumerated therein.

**THIS RESOLUTION IS PASSED AND APPROVED BY THE CITY COUNCIL OF THE CITY OF MISSION,** this 20th day of October 2021.

**THIS RESOLUTION IS APPROVED BY THE MAYOR** this 20th day of October 2021.

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Ronald E. Appletoft, Mayor

ATTEST:

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Audrey M. McClanahan, City Clerk



## Mission Sustainability Initiatives

The list may not be comprehensive, but is representative of the activities that have improved sustainability both for the City of Mission organization and for residents and the Mission business community.

### Resident Services

Solid Waste Contract: Unlimited curbside recycling, yard waste recycling  
Participation in free regional shredding and e-recycling events  
Promotion of Johnson County household hazardous waste drop-off events and resources  
Public recycling container available at Powell Community Center  
Battery Recycling Program  
Contain the Rain Stormwater Best Management Practices program  
Rain barrels and compost bin giveaways  
Energy Efficiency upgrades eligible for the Business Improvement Grant  
Sustainability Scorecard Program for incoming development projects  
Community Garden program  
Host Mission market providing fresh and local produce  
Support of community garden at The Mission Project on Outlook

### Resident Education and Outreach

Home Energy Fair and public composting education in 2013  
Participation in Communities for All Ages Recognition Program  
Earth Hour Events 2018 and 2019  
Spring Into Mission Tree and Plant sale in 2018  
Composting Education Class in 2019  
Sustainability Commission education tent at special events  
Tree City USA Activities  
Adopt-A-Park, Adopt-A-Street programs  
Greenhouse Gas Emission Inventory 2008, Climate Action Plan 2009  
Attended Climate Action Summit in 2019 and Regional Climate Action Plan Work Session in 2021  
Sustainability and Climate Action featured on new City website  
Sustainability Commission articles in each Mission Magazine

### Transit Activities Battery Recycling Program

Nall Avenue Trail construction  
Rock Creek Trail construction  
Bike racks added to Johnson Drive streetscape  
Bike maintenance fix-it station at Mission Market site  
Bike lanes added to Lamar Avenue and group ride celebration and education class

Give-a-Bike, Take-A-Bike maintenance and giveaway events  
Hosted BikeWalkKC's Confident City Class at Powell Community Center  
Promote Bike Month and Bike to Work Day activities  
Circulation of bus route maps at Powell Community Center and City Hall lobbies

Internal Energy and Conservation

Water bottle filling stations added in all departments, reusable water bottles for all staff  
Enrollment in Evergy's Renewables Direct program to use wind energy  
LED Streetlights replace lights in recent arterial street projects and at time of one-off repairs  
Facility Conservation Improvement Program for all buildings and remaining non-LED streetlights

|                           |              |                  |
|---------------------------|--------------|------------------|
| <b>City of Mission</b>    | Item Number: | 12a.             |
| <b>INFORMATIONAL ITEM</b> | Date:        | October 20, 2021 |
| <b>ADMINISTRATION</b>     | From:        | Laura Smith      |

Informational items are intended to provide updates on items where limited or no discussion is anticipated by the Committee.

**RE:** September 2021 Monthly Interim Financial Report

**DETAILS:** The monthly interim financial reports are provided as a part of the Council’s legislative meeting packets and will be reviewed and considered under the City Administrator’s Report section of the agenda.

If appropriate, high level information will be provided during the meeting, and Council will have the opportunity to ask any questions they might have at this time. Following the review at the Council meeting, the reports will be posted on the website.

The Summary Report is included in the packet with a link to the full September 2021 Interim Financial Report found [here](#).

**CFAA CONSIDERATIONS/IMPACTS: NA**

|                                 |    |
|---------------------------------|----|
| Related Statute/City Ordinance: | NA |
| Line Item Code/Description:     | NA |
| Available Budget:               | NA |



# MONTHLY FINANCIAL REPORT

SEPTEMBER 2021

**MISSION**  
*Kansas*



# Mission, Kansas

## Monthly Financial Report – Executive Summary

### September 2021

#### General Fund Revenue Summary by Category as of 9/30/21

|  | 2021<br>Adopted Budget | 2021<br>Rev Budget | MTD<br>Collections | YTD<br>Collections | % of Est Budget<br>Collected |
|--|------------------------|--------------------|--------------------|--------------------|------------------------------|
| <b>Taxes</b>                             |                        |                    |                    |                    |                              |
| Property Tax - General                   | 1,732,500              | 1,696,000          | 68,950             | 1,694,992          | 100%                         |
| Property Tax - Streets                   | 1,102,500              | 1,097,000          | 0                  | 1,096,720          | 100%                         |
| Delinquent Property Tax                  | 15,300                 | 35,000             | 3,248              | 37,880             | 108%                         |
| Motor Vehicle Tax                        | 248,238                | 254,700            | 89,706             | 214,909            | 84%                          |
| City Sales and Use Tax                   | 3,285,000              | 4,050,000          | 356,891            | 3,093,377          | 76%                          |
| County Sales and Use Tax                 | 760,500                | 880,000            | 88,153             | 711,210            | 81%                          |
| County Sales and Use Tax - Jail          | 188,100                | 220,000            | 21,937             | 177,051            | 80%                          |
| County Sales and Use Tax - Public Safety | 188,100                | 220,000            | 21,937             | 177,052            | 80%                          |
| County Sales and Use Tax - Court         | 188,100                | 220,000            | 21,937             | 177,051            | 80%                          |
| Franchise Tax                            | 1,077,000              | 1,109,200          | 90,564             | 797,007            | 72%                          |
| Alcohol Tax                              | 70,000                 | 90,000             | 27,493             | 88,860             | 99%                          |
| Intergovernmental Revenue                | 4,500                  | 5,000              | 0                  | 5,208              | 0%                           |
| Mission Square Pilot                     | 53,000                 | 53,000             | 0                  | 23,625             | 45%                          |
| Licenses and Permits                     | 157,900                | 135,250            | 4,032              | 116,302            | 86%                          |
| Plan Review/Inspection Fees              | 175,000                | 255,000            | 16,598             | 123,352            | 48%                          |
| Police Fines                             | 1,083,842              | 636,600            | 29,737             | 338,968            | 53%                          |
| Charges for Services                     | 137,700                | 136,000            | 11,713             | 85,966             | 63%                          |
| Interest                                 | 30,000                 | 1,500              | 48                 | 642                | 43%                          |
| Miscellaneous and other                  | 98,000                 | 159,360            | 1,180              | 108,227            | 68%                          |
| Pool Revenues                            | 108,324                | 115,500            | 7,067              | 142,764            | 124%                         |
| Parks Special Event Revenues             | 225,000                | 125,000            | 0                  | 111,693            | 89%                          |
| Community Center Revenues                | 1,174,250              | 654,100            | 58,940             | 413,359            | 63%                          |
| Bond Proceeds                            | 0                      | 3,351,000          | 0                  | 0                  |                              |
| Transfers In                             | 0                      | 751,782            |                    | 751,782            |                              |
| <b>Total Revenues</b>                    | <b>12,102,854</b>      | <b>16,250,992</b>  | <b>920,132</b>     | <b>9,736,214</b>   | <b>60%</b>                   |

#### General City Sales Tax :

Total Estimated Budget:  
\$2,500,000

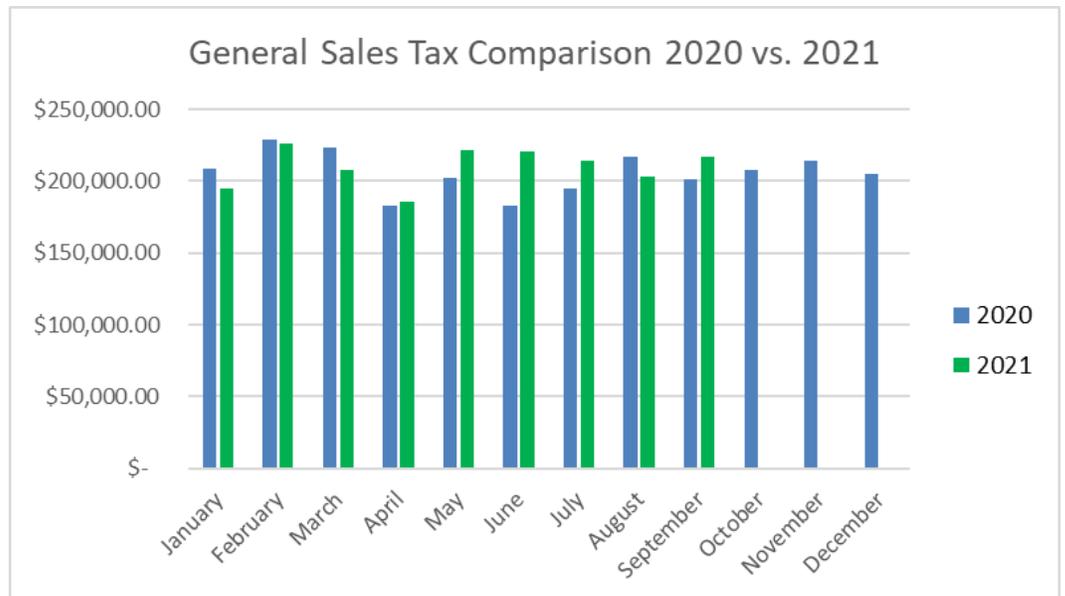
Total City Sales Tax collected YTD:  
\$1,890,540

% of Estimated Budget collected:  
76%

% of Year Expended:  
75%

% change yr over yr = **7.91**

% change 5 yr avg = **5.27%**



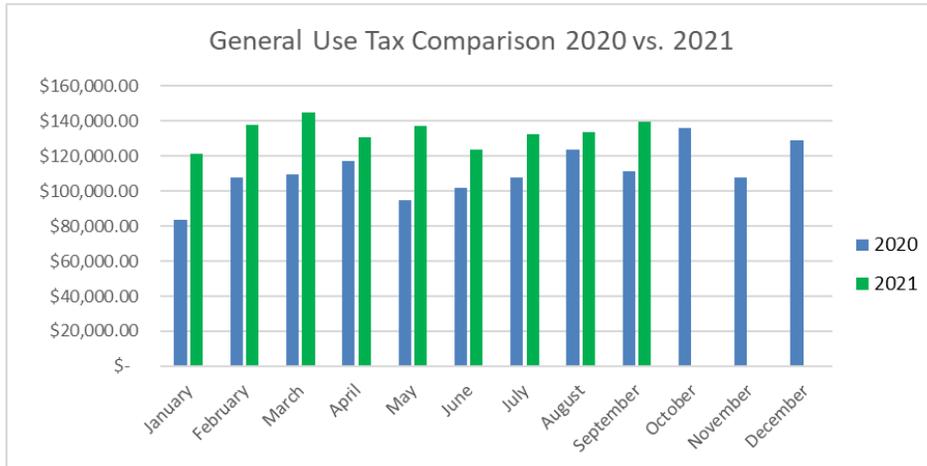
# Mission, Kansas

## Monthly Financial Report – Executive Summary

### September 2021

**Comments/Highlights:**

- City sales and use tax revenue performance remains strong overall. Use tax receipts continue to perform above budget estimates.
- Both County sales tax and use tax revenues trended higher than budget estimates when compared year over year. Total General County Sales and Use tax collected equals \$708,197 or 80% of the total Estimated Revenues for 2021.



Total Estimated Budget: \$1,550,000    Total City Use Tax collected YTD: \$1,202,833    % of Total Estimated Budget collected: 78%

% of Year Expended: 75%    % change yr over yr = **25.46%**    % change 5 yr avg = **49.98%**

| Fund                               | Revenue Budget          |                         |                      | Expenditure Budget         |  |  | Current Cash, MIP and Investments Balance |
|------------------------------------|-------------------------|-------------------------|----------------------|----------------------------|--|--|---|
|                                    | Revenue YTD             | Uncollected Revenue     | Expense YTD          | Unencumb. Balance          |  |  |   |
| 01 General                         | \$ 12,102,854.00        | \$ 9,736,214.35         | \$ 2,366,639.65      | \$ 4,535,953.88            |  |  |   |
| 02 IRS 125 Plan                    | \$ -                    | \$ 37,668.58            | \$ (37,668.58)       | \$ 41,675.71               |  |  |   |
| 03 Special Highway                 | \$ 216,000.00           | \$ 216,849.75           | \$ (849.75)          | \$ 522,461.61              |  |  |   |
| 08 Court - Bonds                   | \$ -                    | \$ 45,216.00            | \$ (45,216.00)       | \$ 45,259.00               |  |  |   |
| 09 Special Alcohol                 | \$ 70,000.00            | \$ 88,859.71            | \$ (18,859.71)       | \$ 127,721.76              |  |  |   |
| 10 Special Park & Recreation       | \$ 70,150.00            | \$ 88,912.89            | \$ (18,762.89)       | \$ 136,338.43              |  |  |   |
| 14 Court - ADSAP                   | \$ -                    | \$ -                    | \$ -                 | \$ 11,436.17               |  |  |   |
| 15 Court - Reinstatement           | \$ -                    | \$ 17,434.00            | \$ (17,434.00)       | \$ 1,423.09                |  |  |   |
| 16 Special Law Enforcement         | \$ -                    | \$ 2,094.25             | \$ (2,094.25)        | \$ 10,121.95               |  |  |   |
| 17 Restricted                      | \$ -                    | \$ 64,295.60            | \$ (64,295.60)       | \$ 106,591.28              |  |  |   |
| 18 Jo Co School District Sales Tax | \$ -                    | \$ -                    | \$ -                 | \$ 18,162.97               |  |  |   |
| 19 MBDC                            | \$ 72,200.00            | \$ 37,920.03            | \$ 34,279.97         | \$ 47,891.26               |  |  |   |
| 22 Storm Drain Utility             | \$ 2,748,220.00         | \$ 3,310,137.26         | \$ (561,917.26)      | \$ 1,114,482.71            |  |  |   |
| 24 Equipment Reserve Fund          | \$ 77,500.00            | \$ 143,389.87           | \$ (65,889.87)       | \$ 423,731.04              |  |  |   |
| 25 Capital Improvement Fund        | \$ 1,454,435.00         | \$ 1,722,079.12         | \$ (267,644.12)      | \$ 1,072,227.41            |  |  |   |
| 26 Rock Creek Drainage Dist #1     | \$ 5,010.00             | \$ 7,603.76             | \$ (2,593.76)        | \$ 5,460.63                |  |  |   |
| 27 Rock Creek Drainage Dist #2     | \$ 86,100.00            | \$ 69,671.77            | \$ 16,428.23         | \$ (8,757.64)              |  |  |   |
| 30 Solid Waste Utility Fund        | \$ 622,100.00           | \$ 620,311.42           | \$ 1,788.58          | \$ 150,981.18              |  |  |   |
| 31 ARPA Fund                       | \$ -                    | \$ 751,782.09           | \$ (751,782.09)      | \$ 751,782.09              |  |  |   |
| 35 Transportation Fund             | \$ -                    | \$ -                    | \$ -                 | \$ 13,398.68               |  |  |   |
| 40 Street Sales Tax                | \$ 585,000.00           | \$ 493,016.16           | \$ 91,983.84         | \$ 411,822.99              |  |  |   |
| 45 Parks & Rec Sales Tax           | \$ 880,000.00           | \$ 739,544.58           | \$ 140,455.42        | \$ 1,084,390.58            |  |  |   |
| 50 Mission Trails TIF              | \$ 288,000.00           | \$ 286,038.85           | \$ 1,961.15          | \$ (11,038.85)             |  |  |   |
| 55 Silvercrest at Broadmoor        | \$ -                    | \$ 6,051.69             | \$ (6,051.69)        | \$ 6,602.38                |  |  |   |
| 60 Mission Crossing TIF Fund       | \$ 385,000.00           | \$ 491,658.27           | \$ (106,658.27)      | \$ 32,650.44               |  |  |   |
| 65 Cornerstone Commons Fund        | \$ 61,000.00            | \$ 51,394.11            | \$ 9,605.89          | \$ 12,075.93               |  |  |   |
| 66 Capitol Federal TIF Fund        | \$ 20,000.00            | \$ 21,028.18            | \$ (1,028.18)        | \$ 21,028.18               |  |  |   |
| 67 Mission Bowl TIF                | \$ -                    | \$ -                    | \$ -                 | \$ -                       |  |  |   |
| 68 Rock Creek TIF Fund #3          | \$ -                    | \$ 68,906.48            | \$ (68,906.48)       | \$ 68,906.48               |  |  |   |
| 69 Rock Creek TIF Fund #4          | \$ -                    | \$ 39,939.77            | \$ (39,939.77)       | \$ 39,939.77               |  |  |   |
| 70 Mission Farm and Flower Market  | \$ -                    | \$ 8,556.83             | \$ (8,556.83)        | \$ 22,070.22               |  |  |   |
| <b>Total</b>                       | <b>\$ 19,743,569.00</b> | <b>\$ 19,166,575.37</b> | <b>\$ 576,993.63</b> | <b>\$ 10,827,830.18</b>    |  |  |   |
|                                    |                         |                         |                      | MIP Statement 9,648,877.38 |  |  |   |
|                                    |                         |                         |                      | Treasury Bills -           |  |  |   |
|                                    |                         |                         |                      | Cash balances 1,178,952.80 |  |  |   |
|                                    |                         |                         |                      | <b>Total 10,827,830.18</b> |  |  |   |
|                                    |                         |                         |                      | Difference -               |  |  |   |

**Mission, Kansas**  
**Monthly Financial Report – Executive Summary**  
**September 2021**

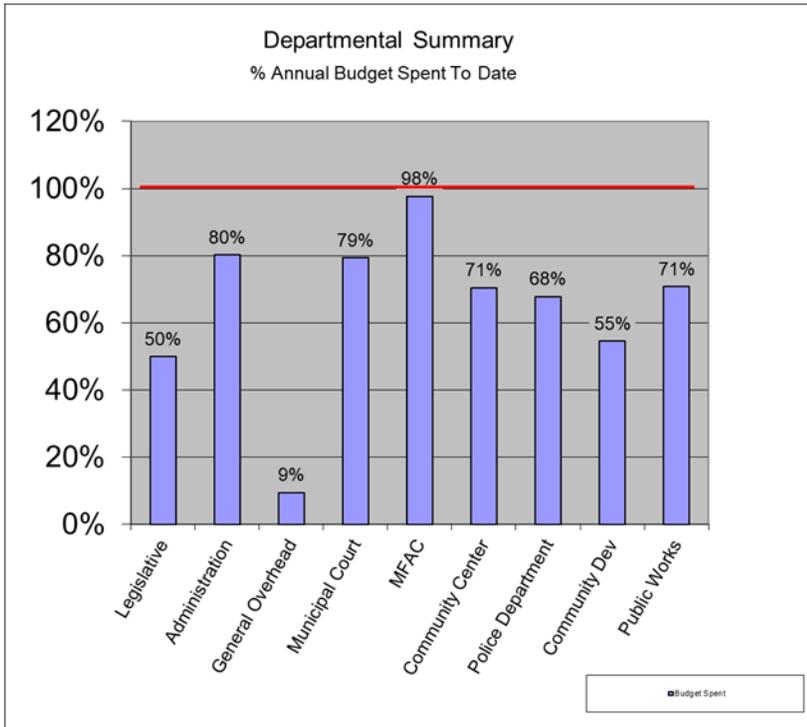
**General Fund Expenditures by Department as of 9/30/21:**

| DEPARTMENT                                  | Budget<br>2021    | Revised<br>Budget | Monthly<br>Expenditure | YTD<br>Expenditure | Amount<br>Remaining | Expenditure<br>Rate |
|---|-------------------|-------------------|------------------------|--------------------|---------------------|---------------------|
| <b>Legislative</b>                          |                   |                   |                        |                    |                     |                     |
| Personnel Services                          | 56,600            | 56,855            | 4,368                  | 40,143             | 16,712              | 71%                 |
| Contractual Services                        | 147,600           | 132,000           | 2,612                  | 54,525             | 77,475              | 41%                 |
| Commodities                                 | 1,700             | 1,700             | 12                     | 570                | 1,130               | 34%                 |
| Capital Outlay                              | -                 | -                 | -                      | -                  | -                   | 0%                  |
| <b>Total</b>                                | <b>205,900</b>    | <b>190,555</b>    | <b>6,992</b>           | <b>95,238</b>      | <b>95,317</b>       | <b>50%</b>          |
| <b>Administration</b>                       |                   |                   |                        |                    |                     |                     |
| Personnel Services                          | 849,000           | 844,600           | 93,800                 | 683,644            | 160,956             | 81%                 |
| Contractual Services                        | 34,150            | 35,150            | 1,661                  | 19,809             | 15,341              | 56%                 |
| Commodities                                 | 600               | 850               | 642                    | 2,616              | (1,766)             | 308%                |
| Capital Outlay                              | -                 | -                 | 15                     | 179                | (179)               | 0%                  |
| <b>Total</b>                                | <b>883,750</b>    | <b>880,600</b>    | <b>96,119</b>          | <b>706,248</b>     | <b>174,353</b>      | <b>80%</b>          |
| <b>General Overhead</b>                     |                   |                   |                        |                    |                     |                     |
| Personnel Services                          | -                 | -                 | -                      | -                  | -                   | 0%                  |
| Contractual Services                        | 305,000.00        | 313,500.00        | 34,941                 | 275,475            | 38,025.05           | 88%                 |
| Commodities                                 | 43,500            | 43,500            | 2,298                  | 37,086             | 6,413.85            | 85%                 |
| Capital Outlay                              | 100,000           | 3,503,671         | 42                     | 61,221             | 3,442,449.63        | 2%                  |
| Debt Service                                | 80,000            | 77,000            | -                      | -                  | 77,000.00           | 0%                  |
| <b>Total</b>                                | <b>528,500</b>    | <b>3,937,671</b>  | <b>37,281</b>          | <b>373,782</b>     | <b>3,563,889</b>    | <b>9%</b>           |
| <b>Municipal Court</b>                      |                   |                   |                        |                    |                     |                     |
| Personnel Services                          | 326,600           | 305,900           | 27,040                 | 262,194            | 43,706              | 86%                 |
| Contractual Services                        | 28,100            | 27,285            | 214                    | 6,199              | 21,086              | 23%                 |
| Commodities                                 | 6,750             | 6,750             | 525                    | 2,949              | 3,801               | 44%                 |
| Capital Outlay                              | 2,000             | 2,730             | -                      | 730                | 2,000               | 27%                 |
| <b>Total</b>                                | <b>363,450</b>    | <b>342,665</b>    | <b>27,778</b>          | <b>272,071</b>     | <b>70,594</b>       | <b>79%</b>          |
| <b>Parks and Recreation</b>                 |                   |                   |                        |                    |                     |                     |
| <b>Mission Family Aquatic Center (MFAC)</b> |                   |                   |                        |                    |                     |                     |
| Personnel Services                          | 154,000           | 120,600           | 11,157                 | 118,032            | 2,568               | 98%                 |
| Contractual Services                        | 76,750            | 70,500            | 10,388                 | 65,152             | 5,348               | 92%                 |
| Commodities                                 | 48,950            | 39,050            | 1,629                  | 41,657             | (2,607)             | 107%                |
| Capital Outlay                              | -                 | -                 | -                      | -                  | -                   | 0%                  |
| <b>Total</b>                                | <b>279,700</b>    | <b>230,150</b>    | <b>23,175</b>          | <b>224,841</b>     | <b>5,309</b>        | <b>98%</b>          |
| <b>Community Center</b>                     |                   |                   |                        |                    |                     |                     |
| Personnel Services                          | 1,638,955         | 1,503,100         | 141,780                | 1,065,750          | 437,350             | 71%                 |
| Contractual Services                        | 819,675           | 776,750           | 65,242                 | 545,273            | 231,477             | 70%                 |
| Commodities                                 | 114,150           | 105,350           | 13,303                 | 70,582             | 34,768              | 67%                 |
| Capital Outlay                              | -                 | -                 | -                      | -                  | -                   | 0%                  |
| <b>Total</b>                                | <b>2,572,780</b>  | <b>2,385,200</b>  | <b>220,325</b>         | <b>1,681,605</b>   | <b>703,595</b>      | <b>71%</b>          |
| <b>Police Department</b>                    |                   |                   |                        |                    |                     |                     |
| Personnel Services                          | 3,451,348         | 3,276,700         | 347,578                | 2,398,468          | 878,232             | 73%                 |
| Contractual Services                        | 390,500           | 390,500           | 24,538                 | 181,634            | 208,866             | 47%                 |
| Commodities                                 | 146,250           | 146,250           | 10,140                 | 78,492             | 67,758              | 54%                 |
| Capital Outlay/Lease                        | 114,700           | 112,700           | -                      | 6,010              | 106,690             | 5%                  |
| <b>Total</b>                                | <b>4,102,798</b>  | <b>3,926,150</b>  | <b>382,255</b>         | <b>2,664,604</b>   | <b>1,261,546</b>    | <b>68%</b>          |
| <b>Community Development</b>                |                   |                   |                        |                    |                     |                     |
| Personnel Services                          | 447,000           | 376,000           | 30,635                 | 271,157            | 104,843             | 72%                 |
| Contractual Services                        | 337,900           | 414,665           | 17,293                 | 158,411            | 256,254             | 38%                 |
| Commodities                                 | 5,000             | 4,500             | 341                    | 2,072              | 2,428               | 46%                 |
| Capital Outlay                              | -                 | -                 | 1,972                  | 2,209              | (2,209)             | 0%                  |
| <b>Total</b>                                | <b>789,900</b>    | <b>795,165</b>    | <b>50,240</b>          | <b>433,849</b>     | <b>361,316</b>      | <b>55%</b>          |
| <b>Public Works</b>                         |                   |                   |                        |                    |                     |                     |
| Personnel Services                          | 1,041,523         | 999,500           | 93,997                 | 750,505            | 248,995             | 75%                 |
| Contractual Services                        | 1,067,000         | 1,059,021         | 93,140                 | 668,912            | 390,109             | 63%                 |
| Commodities                                 | 193,800           | 193,300           | 16,447                 | 196,506            | (3,206)             | 102%                |
| Capital Outlay                              | 2,500             | 37,500            | -                      | 5,905              | 31,595              | 16%                 |
| <b>Total</b>                                | <b>2,304,823</b>  | <b>2,289,321</b>  | <b>203,585</b>         | <b>1,621,827</b>   | <b>667,494</b>      | <b>71%</b>          |
| <b>Other General Fund</b>                   | <b>1,177,500</b>  | <b>1,187,500</b>  | <b>-</b>               | <b>1,355,496</b>   | <b>(167,996)</b>    | <b>114%</b>         |
| <b>General Fund Total</b>                   | <b>13,209,101</b> | <b>16,164,977</b> | <b>1,047,749</b>       | <b>9,429,562</b>   | <b>6,735,415</b>    | <b>58%</b>          |

# Mission, Kansas

## Monthly Financial Report – Executive Summary

### September 2021



**Additional highlights/comments:**

- The City’s cash balance position remains strong with an ending cash balance across all funds as of September 30, 2021 of \$10.82 million. Major expenditures in September included 2021 Street Program paving, 2022 street program design, biannual bridge inspections, preparation of a Letter of Map Revision (LOMR) for Rock Creek Channel improvements, traffic light maintenance and distribution of TIF/CID proceeds for the Mission Crossing and Cornerstone Commons projects.
- Street Sales Tax collections for 2021 YTD total \$493,003 and Parks & Recreation Sales Tax collections for 2021 YTD total \$739,504 which represents a combined increase of **4.0%** over 2020 collections for this same time period.

Parks and Recreation revenues continue to be most significantly impacted by the COVID-19 pandemic. In an effort to address questions surrounding revenues and expenses for the Powell Community Center (PCC), including cost recovery rates historical and YTD revenue and expense information is included in the monthly interim financial report. The table below illustrates actual revenues and expenses from 2015 through 2020 showing the difference in total dollars (subsidy for operations). YTD information for the 2021 Budget is also included along with the cost recovery or self-sufficiency rate for each year. Staff will be issuing an RFQ for a feasibility study for the PCC to aid in assessing the long-term feasibility and viability of the center.

|                 | 2015         | 2016         | 2017         | 2018         | 2019         | 2020           | 2021 YTD       |
|-----------------|--------------|--------------|--------------|--------------|--------------|----------------|----------------|
| Revenues        | \$ 1,780,144 | \$ 1,817,753 | \$ 1,758,157 | \$ 1,675,697 | \$ 1,698,878 | \$ 710,775     | \$ 548,677     |
| Expenses        | \$ 2,089,988 | \$ 2,225,928 | \$ 2,284,283 | \$ 2,342,798 | \$ 2,425,932 | \$ 2,062,448   | \$ 1,681,605   |
| Difference (\$) | \$ (309,845) | \$ (408,175) | \$ (526,127) | \$ (667,101) | \$ (727,054) | \$ (1,351,673) | \$ (1,132,928) |
| Cost Recovery % | 85%          | 82%          | 77%          | 72%          | 70%          | 34%            | 33%            |

Following passage of the American Rescue Plan (ARP) Act, the City was slated to receive a direct disbursement of funds (\$1,503,565) to address COVID-19 impacts. The first half payment was received in July 2021. ARPA funds are currently shown as a transfer into the General Fund to address COVID-19 related revenue shortages.

The reports that follow provide line item detail level summaries of revenues and expenditures for all funds, and are generated through the City’s financial management software, Governmentor. In addition to information on the current budget/fiscal year, the reports will contain information on the prior year actuals.

In addition to these summary reports, a summary claims report detailing expenditures for the month by fund is provided along with a report that details all payments made in the current month by vendor (listed alphabetically).