



Minnesota Energy Resources Corporation
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April 1, 2020

VIA ELECTRONIC FILING

Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 Seventh Place East, Suite 350
St. Paul, MN 55101

**PUBLIC DOCUMENT
TRADE SECRET DATA HAS BEEN
EXCISED**

**Re: In the Matter of the Petition of Minnesota Energy Resources Corporation
for Approval of a Gas Utility Infrastructure Cost Rider True-Up Report for
2019, Revenue Requirements for 2021, and Revised Surcharge Factors
Docket No. G011/M-20-_____**

Dear Mr. Seuffert:

Minnesota Energy Resources Corporation ("MERC" or the "Company") submits this Petition to the Minnesota Public Utilities Commission (the "Commission") for approval to recover eligible capital costs and operations and maintenance ("O&M") expense for gas utility infrastructure projects to be undertaken in 2021, adjusted to account for the 2019 gas utility infrastructure cost ("GUIC") rider ("GUIC Rider") true-up, through the Company's gas GUIC Rider pursuant to Minn. Stat. § 216B.1635 (the "GUIC Statute").

MERC first requested and received approval to establish a GUIC Rider under the GUIC Statute in Docket No. G011/M-18-281 for the Company's forecasted 2019 GUIC-eligible projects and costs. The Commission issued an Order Approving Gas Utility Infrastructure Cost Rider with Modifications and Requiring Compliance Filing in that docket on February 5, 2019, finding that MERC's proposed forecasted 2019 GUIC Rider costs were "incremental; required by federal, state or local agencies; and supported by sufficient detail to meet the information requirements of the GUIC statute."¹

On April 24, 2019, MERC filed its second GUIC Rider filing with the Commission, requesting recovery of capital costs and O&M expense forecasted to be incurred in 2020 through the Company's GUIC Rider effective January 1, 2020.² Several rounds of comments have been filed in the 2020 GUIC Rider proceeding by MERC, the Minnesota Department of Commerce, Division of Energy Resources (the "Department"), and the Minnesota Office of the Attorney General—Residential Utilities Division (the "OAG"). Most recently, MERC filed reply comments

¹ *In the Matter of Minn. Energy Res. Corp.'s Request for Approval of a Gas Util. Infrastructure Cost Rider*, Docket No. G011/M-18-281, ORDER APPROVING GAS UTILITY INFRASTRUCTURE COST RIDER WITH MODIFICATIONS AND REQUIRING COMPLIANCE FILING at 6 (Feb. 5, 2019).

² *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, MERC PETITION (Apr. 24, 2019).

on February 14, 2020,³ in response to the January 24, 2020, response comments filed by the Department.⁴ At the time of the filing of this Petition, MERC's 2020 GUIC rider remains pending. And while many issues have been resolved between the Department and the Company, several issues remain disputed.

On June 28, 2019, MERC filed a request for emergency approval to suspend the collection of the GUIC and Natural Gas Extension Project ("NGEP") rider surcharges from the Company's Direct Connect customers.⁵ In its August 26, 2019, Order Suspending GUIC Rider Surcharge for Direct Connect Customers, and Declining to Reopen NGEP Cost Rider Docket, the Commission granted MERC's request to suspend the GUIC rider surcharge as applied to Direct Connect customers.⁶ Consistent with that decision and in consideration of continued concerns regarding the significant risk of bypass posed by those Direct Connect customers, MERC proposed, and the Department did not oppose, to continue to exclude the Company's Direct Connect customers from the 2020 GUIC rider in Docket No. G011/M-19-282.

This Petition reflects the Company's third GUIC Rider filing and first GUIC true-up report. Through this filing, MERC seeks approval of the forecasted 2021 revenue requirement inclusive of MERC's forecasted 2021 GUIC-eligible costs and projects and adjusted to account for the under-recovery of GUIC-eligible costs in 2019 to be recovered through revised per-therm charges by customer class effective January 1, 2021. The GUIC projects and costs planned for 2021 and proposed for recovery in this filing build upon the previously-approved 2019 GUIC Rider and the Company's currently-pending 2020 GUIC Rider request by continuing implementation of MERC's multiyear integrity management and safety initiatives. Continuation of this proactive approach to distribution system safety and integrity management in 2021 is consistent with the GUIC Statute and benefits customers because work undertaken systematically and strategically reduces costs compared to work undertaken in a reactionary or immediate threat mode, and allows utilities to engage in regional planning to minimize inconvenience and costs to customers.

Under the GUIC Statute, a natural gas utility may seek to recover forecasted gas utility infrastructure costs outside of a general rate case through a rider. As proposed in this filing, MERC's 2021 revenue requirement and rate adjustments are based on incremental costs to be incurred in 2021 over and above those investments and costs included in MERC's authorized rates as approved in the Company's most recent rate case, Docket No. G011/GR-17-563.

Consistent with the Company's Commission-approved tariffs⁷; the Commission's February 5, 2019, Order Approving Gas Utility Infrastructure Cost Rider with Modifications and Requiring

³ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, MERC ADDITIONAL REPLY COMMENTS (Feb. 14, 2020).

⁴ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, DEPARTMENT RESPONSE COMMENTS (Jan. 24, 2020).

⁵ *In the Matter of Minn. Energy Res. Corp. for Approval of a Gas Utility Infrastructure Cost (GUIC) Rider*, Docket No. G011/M-18-281, EMERGENCY REQUEST TO SUSPEND GUIC AND NGEP (June 28, 2019).

⁶ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost (GUIC) Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-18-281, ORDER SUSPENDING GUIC RIDER SURCHARGE FOR DIRECT CONNECT CUSTOMERS, AND DECLINING TO REOPEN NGEP COST RIDER DOCKET at 7-8 (Aug. 26, 2019).

⁷ See MERC Tariff Sheet Nos. 7.20-7.21.

Compliance Filing, and April 25, 2019, Order Approving Compliance Filing in Docket No. G011/M-18-281; and the GUIC Statute, MERC is submitting its 2019 GUIC true-up report, which includes project-specific information and costs for projects completed in 2019, along with a tracker to reconcile costs and recoveries for 2019 under the Company's GUIC Rider.

As provided in this filing: (1) MERC's forecasted 2021 GUIC project costs for which it is seeking recovery in this Petition are reasonable, meet the requirements of the GUIC Statute, and should be approved, subject to future true-up; (2) MERC's calculation of its forecasted revenue requirement for 2021 is consistent with the GUIC Statute, the Commission's February 5, 2019, and April 25, 2019, Orders, and MERC's agreements in Docket Nos. G011/M-18-281 and G011/M-19-282; (3) MERC's proposed adjustment to the 2021 GUIC revenue requirement to include under-recovered 2019 GUIC-eligible costs is reasonable and reflects the Company's actual 2019 GUIC costs and actual 2019 GUIC Rider revenues; (4) MERC has demonstrated that its actual 2019 GUIC project costs were prudently incurred and achieve gas facility improvements at the lowest reasonable and prudent cost to ratepayers; and (5) MERC's proposed apportionment to recover its 2021 GUIC revenue deficiency through customer surcharges by customer class is reasonable and appropriate in consideration of the revenue apportionment most recently approved in Docket No. G011/GR-17-563, the bypass risk posed by MERC's Direct Connect customers, and other rate design considerations. MERC has previously provided, or is providing in this filing, all required filing information under the GUIC Statute.

Through this filing, MERC is requesting approval to implement updated GUIC surcharges by customer class effective January 1, 2021, based on the 2021 forecasted revenue deficiency and 2019 true-up adjustment. MERC projects the annual impact of the proposed surcharge rate on an average Residential customer to be approximately \$19 and, as discussed in this Petition, would propose to notify customers of the updated 2021 surcharge rates via bill message.

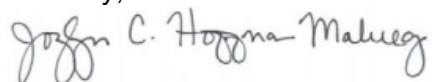
A copy of this miscellaneous filing has been served on the Department and the OAG. The summary of the filing has been served on all parties on the attached general service list.

The nonpublic version of this filing contains Trade Secret data and private data on individuals. In particular, Exhibits E and J include customer names and addresses. This information is maintained by MERC as private customer data and has been excised from the public version of the filing in accordance with Minn. Stat. § 13.679. Additionally, Exhibit K to this filing has been designated as nonpublic in its entirety, as it contains information MERC considers to be Trade Secret as defined by Minn. Stat. § 13.37, subd. 1(b). The information is not generally known to, and not readily ascertainable by, vendors and competitors of MERC, who could obtain economic value from their disclosure. MERC maintains this information as trade secret.

Mr. Will Seuffert
April 1, 2020
Page 4

Please contact me at (414) 221-4208 if you have any questions regarding the information in this Petition. Thank you for your attention to this matter.

Sincerely,

A handwritten signature in dark ink, reading "Joylyn C. Hoffman Malueg". The signature is written in a cursive, flowing style.

Joylyn Hoffman Malueg
Project Specialist 3
Minnesota Energy Resources Corporation

Enclosures
cc: Service List

BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

**Katie Sieben
Valerie Means
Matthew Schuerger
John Tuma**

**Chair
Commissioner
Commissioner
Commissioner**

In the Matter of the Petition of Minnesota
Energy Resources Corporation for Approval
of a Gas Utility Infrastructure Cost Rider
True-Up Report for 2019, Revenue
Requirements for 2021, and Revised
Surcharge Factors

Docket No. G011/M-20-_____

PETITION

Pursuant to Minnesota Statutes section 216B.1635 (the “GUIC Statute”) and in accordance with Minnesota Rules part 7829.1300, Minnesota Energy Resources Corporation (“MERC” or the “Company”) submits this Petition to the Minnesota Public Utilities Commission (the “Commission”) for approval to recover the Company’s forecasted 2021 eligible gas utility infrastructure project costs, adjusted to account for the 2019 gas utility infrastructure cost (“GUIC”) rider (“GUIC Rider”) true-up, through customer surcharges by customer class effective January 1, 2021.

As reflected in this filing, MERC has calculated a total 2021 revenue deficiency of \$6,647,683, based on the forecasted 2021 depreciation expense and return on gas utility infrastructure capital expenditures forecasted to be placed into service through the end of 2021 as well as incremental operations and maintenance (“O&M”) expense for projects planned to be undertaken during 2021. MERC’s 2021 revenue deficiency calculation includes a true-up adjustment of \$639,859 related to the under-recovery of actual GUIC project costs incurred in 2019. In particular, as reflected in this filing, the revenues collected through the Company’s \$0.00413 per therm surcharge rate effective May 1, 2019, through December 31, 2019, were \$1,497,598, while the Company’s actual 2019 revenue requirement based on actual GUIC projects completed and placed into service was \$2,137,457.

MERC’s forecasted 2021 revenue requirement of \$6,007,824 is based on projects to be undertaken through 2021 to comply with federal, state, and local governmental requests to relocate natural gas facilities located in the public right-of-way and to comply with federal and state regulations that require natural gas utilities to implement integrity management programs to assess and improve the safety, reliability, and integrity of its natural gas infrastructure. These costs are consistent with the eligibility requirements set forth in the GUIC Statute and build upon MERC’s 2019 GUIC spending, as approved by the Commission in Docket No. G011/M-18-281, and as proposed in the Company’s currently-pending 2020 GUIC Rider proceeding, Docket No. G011/M-19-282.

Consistent with the Company’s Commission-approved tariffs⁸; the Commission’s February 5, 2019, Order Approving Gas Utility Infrastructure Cost Rider with Modifications and Requiring Compliance Filing, and April 25, 2019, Order Approving Compliance Filing in Docket No. G011/M-18-281; and the GUIC Statute, MERC is submitting its 2019 GUIC true-up report, which

⁸ MERC Tariff Sheet Nos. 7.20-7.21.

includes project-specific information and costs for projects completed in 2019, along with a tracker to reconcile costs and recoveries for 2019 under the Company's GUIC Rider.

As provided in this filing: (1) MERC's forecasted 2021 GUIC project costs for which it is seeking recovery in this Petition are reasonable, meet the requirements of the GUIC Statute, and should be approved, subject to future true-up; (2) MERC's calculation of its forecasted revenue requirement for 2021 is consistent with the GUIC Statute, the Commission's February 5, 2019, and April 25, 2019, Orders, and MERC's agreements in Docket Nos. G011/M-18-281 and G011/M-19-282; (3) MERC's proposed adjustment to the 2021 GUIC revenue requirement to include under-recovered 2019 GUIC-eligible costs is reasonable and reflects the Company's actual 2019 GUIC costs and actual 2019 GUIC Rider revenues; (4) MERC has demonstrated that its actual 2019 GUIC project costs were prudently incurred and achieve gas facility improvements at the lowest reasonable and prudent cost to ratepayers; and (5) MERC's proposed apportionment to recover its 2021 GUIC revenue deficiency through customer surcharges by customer class is reasonable and appropriate in consideration of the revenue apportionment most recently approved in Docket No. G011/GR-17-563, the bypass risk posed by MERC's Direct Connect customers, and other rate design considerations. MERC has previously provided, or is providing in this filing, all required filing information under the GUIC Statute and in accordance with the Commission's previous orders in Docket No. G011/M-18-281.

Through this filing, MERC is requesting approval of:

- A 2021 forecasted revenue requirement of \$6,007,824 based on the forecasted 2021 depreciation expense and return on gas utility infrastructure capital expenditures forecasted to be placed into service through the end of 2021 as well as incremental O&M expense for projects planned to be undertaken during 2021, subject to future true up;
- A true-up adjustment of \$639,859 for the under-recovered 2019 GUIC revenue requirement based on MERC's actual 2019 GUIC project costs and actual 2019 GUIC Rider revenues, inclusive of under-recovered amounts resulting from the suspension of the GUIC Rider surcharge rate applicable to Direct Connect customers effective September 1, 2019, resulting in an overall 2021 GUIC Rider recovery of \$6,647,683.
- GUIC Rider surcharge rates by customer class based on the methodology outlined in this Petition and consistent with MERC's proposal in Docket No. G011/M-19-282, effective January 1, 2021; and
- Updated GUIC Rider tariff sheets to reflect the 2021 GUIC rate factors effective January 1, 2021.

This filing includes the following:

- A one paragraph summary of filing, in accordance with Minn. R. 7829.1300, subp.1;
- Petition for Approval of Gas Utility Infrastructure Cost Rider True-Up Report for 2019, Revenue Requirements for 2021, and Revised Surcharge Factors;
- Exhibit A: A copy of Minn. Stat. § 216B.1635, Recovery of Gas Utility Infrastructure Costs;

- Exhibit B: Matrix of information included within the petition as required by Minn. Stat. § 216B.1635 and Commission Orders;
- Exhibit C: Updated tariff sheets to reflect the 2021 GUIC rate factors proposed to be effective January 1, 2021 (MERC Tariff Sheet Nos. 7.20-7.21a);
- Exhibit D: Calculations of the proposed 2021 GUIC-eligible revenue requirement and proposed GUIC Rider surcharge rates by customer class proposed to be effective January 1, 2021;
- Exhibit E: Details regarding MERC's actual 2019 relocation projects required to accommodate public projects in the right-of-way [Public and Nonpublic versions];
- Exhibit F: MERC's currently known 2020 and 2021 right-of-way relocation projects (to-date);
- Exhibit G: MERC's 2021 Gas Infrastructure Project Plan Report;
- Exhibit H: Discussion of the magnitude of proposed GUIC costs and known future projects as required by Minn. Stat. § 216B.1635, subd. 4(vi), (vii), and (viii);
- Exhibit I: MERC's 2019 GUIC true-up calculation and tracker balance;
- Exhibit J: Details regarding MERC's actual 2019 obsolete materials replacement projects [Public and Nonpublic versions];
- Exhibit K: Maps of Aldyl-A main replacement (2021) [Public and Nonpublic versions]; and
- Exhibit L: Project schedule for obsolete material replacements (2021).

As discussed in the Petition, MERC proposes to notify customers of the implementation of the new GUIC rate via the following bill message on bills effective the first month the GUIC surcharge takes effect.⁹

Effective Jan. 1, 2021, the GUIC (Gas Utility Infrastructure Cost) Rider Surcharge has been adjusted to the following per therm rate for each of these rate classes: Residential: \$0.02148; Class 1 & 2 Firm (Sales and Transport): \$0.01143; Class 1 & 2 Interruptible (Sales and Transport), Class 1 & 2 Grain Dryer, and Class 1 Electric Generation: \$0.01143; Class 3 & 4 Firm (Sales and Transport): \$0.00397; Class 3 & 4 Interruptible (Sales and Transport) and Class 3 Grain Dryer: \$0.00397; and Class 5, Flex, Class 2 Electric

⁹ Notably, while the Commission ordered MERC to provide a customer bill message and bill insert explaining its 2019 GUIC Rider surcharge in its February 5, 2019, Order Approving Gas Utility Infrastructure Cost Rider with Modifications and Requiring Compliance Filing in Docket No. G011/M-18-281, MERC is proposing only a bill message (without bill insert) to notify customers regarding the updated GUIC rate, consistent with the Company's proposal in Docket No. G011/M-19-282. Customers have been provided more detailed information regarding the GUIC Rider in 2019, a bill message will help reduce overall customer costs, and is more likely to be read because it appears directly on the bill.

Generation and Transport-for-Resale: \$0.00166. The GUIC Surcharge will continue to appear as a line item on your bill labeled "Infrastructure Rider."

I. Summary of Filing

Pursuant to Minn. R. 7829.1300, subp. 1, a one-paragraph summary of the filing is attached.

II. Service

Pursuant to Minn. R. 7829.1300, subp. 2, MERC has served a copy of this petition on the Minnesota Department of Commerce, Division of Energy Resources and the Minnesota Office of the Attorney General – Residential Utilities Division. The summary of the filing has been served on all parties on the attached general service list.

III. General Filing Information

Pursuant to Minn. R. 7829.1300, subp.3, the following information is provided:

A. Name, Address, and Telephone Number of Filing Party

Minnesota Energy Resources Corporation
2685 145th Street West
Rosemount, MN 55068
(651) 322-8901

B. Name, Address, Electronic Address, and Telephone Number of Attorney for the Utility

Kristin M. Stastny
Taft Stettinius & Hollister LLP
2200 IDS Center
80 South 8th Street
Minneapolis, MN 55402
KStastny@Taftlaw.com
(612) 977-8656

C. Date of the Filing and Date Proposed Agreement Will Take Effect

Date of Filing: April 1, 2020

Proposed Effective Date: Upon Commission Approval

MERC respectfully requests that the Commission rule on this filing so recovery under the GUIC Rider may begin during the first billing period in January 2021. In accordance with Minn. Stat. § 216B.1635, subd. 2, MERC is submitting this Petition more than 150 days in advance of the proposed date for implementation:

A public utility submitting a petition to recover gas infrastructure costs under this section must submit to the commission, the department, and interested parties a gas infrastructure project plan report and a petition for rate recovery of only incremental costs

associated with projects under subdivision 1, paragraph (c). The report and petition must be made at least 150 days in advance of implementation of the rate schedule, provided that the rate schedule will not be implemented until the petition is approved by the commission pursuant to subdivision 5. The report must be for a forecast period of one year.

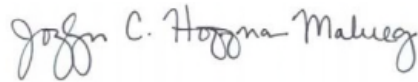
D. Statute Controlling Schedule for Processing the Filing

MERC submits its request for approval of rider recovery under Minn. Stat. § 216B.1635, which authorizes a public utility to petition the Commission outside a general rate case for a rider to recover certain gas utility infrastructure costs. In accordance with Minn. Stat. § 216B.1635, subd. 5,

Upon receiving a gas utility report and petition for cost recovery under subdivision 2 and assessment and verification under subdivision 4, the commission may approve the annual GUIC rate adjustments provided that, after notice and comment, the costs included for recovery through the rate schedule are prudently incurred and achieve gas facility improvements at the lowest reasonable and prudent cost to ratepayers.

Under Minn. R. 7829.0100, subp. 11, this petition is a “miscellaneous” filing because no determination of MERC’s general revenue requirement is necessary. Comments on a miscellaneous filing are due within 30 days of filing, with replies due 10 days thereafter.¹⁰

E. Signature, Electronic Address, and Title of Utility Employee Responsible for the Filing



Joylyn Hoffman Malueg
Project Specialist 3
Minnesota Energy Resources Corporation
Joylyn.HoffmanMalueg@wecenergygroup.com
231 W. Michigan Street
Milwaukee, WI 53203
(414) 221-4208

F. Description of the Filing, Impact on Rates and Services, and Reasons for the Filing

Pursuant to the GUIC Statute, MERC is requesting approval of revised GUIC Rider surcharge rates by customer class effective January 1, 2021, to recover the 2021 revenue deficiency associated with eligible GUIC projects forecasted to be completed and placed into service through 2021, adjusted to account for the 2019 GUIC rider true-up based on actual 2019 GUIC project costs and surcharge recoveries. Under Minn. Stat. § 216B.1635, subd. 1(c), the

¹⁰ See Minn. R. 7829.1400, subps. 1, 4.

following natural gas projects are eligible for GUIC Rider recovery subject to additional requirements within the statute:

- (1) replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision; and
- (2) replacement or modification of existing natural gas facilities, including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure that is required by a federal or state agency.

As discussed in this filing, MERC's proposed 2021 GUIC Rider will allow the Company to recover costs and expenses that have been incurred and will be undertaken in 2021 within these two categories. The GUIC projects and costs planned for 2021 and proposed for recovery in this filing build upon the previously-approved 2019 GUIC Rider approved by the Commission and the projects and costs proposed for recovery in the Company's currently-pending 2020 GUIC Rider proceeding by continuing implementation of MERC's multi-year integrity management and safety initiatives. Continuation of this proactive approach to distribution system safety and integrity management in 2021 is consistent with the GUIC Statute and benefits customers because work undertaken systematically and strategically reduces costs and minimizes inconvenience to customers.

Regarding the 2021 GUIC filing, within the first category above, MERC is projecting incremental capital investments of approximately \$6.34 million in 2021, for the replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of roads, public buildings, or other public works. The forecast for the right-of-way relocation work is based on MERC's actual costs for right-of-way projects in 2019. MERC's annual right of way project costs increased each year from 2015 through 2018, with a slight decline (approximately \$250,000) in overall costs between 2018 and 2019. Based on MERC's analysis of this historic data, the Company has forecasted its 2021 right-of-way costs based on 2019 actual costs to reflect the most recent actual costs and to reflect the slight decrease in overall costs between 2018 and 2019. Actual annual spending for right-of-way relocation projects is out of MERC's control as the Company is required to remove and relocate its natural gas facilities located in the public right-of-way whenever requested to do so to accommodate a public works project such as a road or sewer project. These costs are subject to true-up based on actual projects and expenditures.

Regarding the second category of costs, MERC has forecasted capital and O&M spending of approximately \$7.8 million to comply with federal and state regulatory requirements and standards for how operators validate the integrity of gas distribution assets by identifying risks, systematically performing health and conditions assessments, evaluating and prioritizing repairs to mitigate the risks, and informing customers regarding the installation of safety equipment. Consistent with MERC's approved 2019 scope of GUIC-eligible costs, this category of work for 2021 includes (1) the replacement of existing obsolete natural gas facilities, (2) the survey and assessment of meter sets to identify the need for replacement or modification of existing infrastructure, and (3) the survey and assessment of sewer laterals and mains to identify the need for the repair or replacement of damaged natural gas pipelines as a result of sewer cross bores. Additionally, MERC's 2021 scope of work in this category includes (1) incremental O&M

expense to map existing service lines in MERC's geographic information system to more fully understand system design, material characteristics, and operating conditions; and (2) costs to continue MERC's excess flow valve customer outreach efforts, consistent with the Commission's July 31, 2019, Order Accepting Compliance Filings, Requiring MERC to Submit Additional Information, Requiring Annual Compliance Reporting, and Taking Other Action in Docket No. G999/CI-18-41. The \$7.8 million forecast for 2021 reflects the Company's forecast of specific identified projects to be undertaken and placed into service in 2021.

All of the costs for work to be undertaken in 2021, as proposed in this filing, are incremental; required by federal, state, or local agencies; and supported by the specific information required under the GUIC Statute. Further, consistent with the GUIC Statute and prior Commission decisions, all costs will be subject to annual true-up. All required information and supporting data required under the GUIC Statute is provided in this filing and supporting exhibits.

If additional information is required, please contact Joylyn Hoffman Malueg at (414) 221-4208 or Kristin Stastny at (612) 977-8656.

DATED: April 1, 2020

Respectfully submitted,

TAFT STETTINIUS & HOLLISTER LLP

/s/ Kristin M. Stastny

Kristin M. Stastny
2200 IDS Center
80 South 8th Street
Minneapolis, MN 55402
Telephone: (612) 977-8656
KStastny@Taftlaw.com

Attorney for Minnesota Energy Resources
Corporation

BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

**Katie Sieben
Valerie Means
Matthew Schuerger
John Tuma**

**Chair
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In the Matter of the Petition of Minnesota
Energy Resources Corporation for Approval
of a Gas Utility Infrastructure Cost Rider
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Requirements for 2021, and Revised
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Docket No. G011/M-20-_____

SUMMARY OF FILING

Please take notice that on April 1, 2020, pursuant to Minnesota Statutes section 216B.1635, and in accordance with Minnesota Rules part 7829.1300, Minnesota Energy Resources Corporation (“MERC” or the “Company”) filed with the Minnesota Public Utilities Commission a Petition for approval to recover the Company’s forecasted 2021 eligible gas utility infrastructure project costs, adjusted to account for the 2019 Gas Utility Infrastructure Cost (“GUIC”) rider (“GUIC Rider”) true-up, through customer surcharges by customer class effective January 1, 2021. Through this filing, MERC is requesting approval of:

- A 2021 forecasted revenue requirement of \$6,007,824 based on the forecasted 2021 depreciation expense and return on gas utility infrastructure capital expenditures forecasted to be placed into service through the end of 2021 as well as incremental O&M expense for projects planned to be undertaken during 2021, subject to future true-up;
- A true-up adjustment of \$639,859 for the under-recovered 2019 GUIC revenue requirement based on MERC’s actual 2019 GUIC project costs and actual 2019 GUIC Rider revenues, inclusive of under-recovered amounts resulting from the suspension of the GUIC Rider surcharge rate applicable to Direct Connect customers effective September 1, 2019, resulting in an overall 2021 GUIC Rider recovery of \$6,647,683.
- GUIC surcharge rates by customer class effective January 1, 2021; and
- Updated GUIC Rider tariff sheets to reflect the 2021 GUIC rate factors effective January 1, 2021.

MERC’s forecasted revenue requirement of \$6,007,824 is based on projects to be undertaken through 2021 to comply with federal, state, and local governmental requests to relocate natural gas facilities located in the public right-of-way and to comply with federal and state regulations that require natural gas utilities to implement integrity management programs to assess and improve the safety, reliability, and integrity of its natural gas infrastructure. These costs are consistent with the eligibility requirements set forth in Minn. Stat. § 216B.1635.

BEFORE THE MINNESOTA PUBLIC UTILITIES COMMISSION

**Katie Sieben
Valerie Means
Matthew Schuerger
John Tuma**

**Chair
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In the Matter of the Petition of Minnesota
Energy Resources Corporation for Approval
of a Gas Utility Infrastructure Cost Rider
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Docket No. G011/M-20-_____

I. INTRODUCTION

Pursuant to Minn. Stat. § 216B.1635 (the “GUIC Statute”), Minnesota Energy Resources Corporation (“MERC” or the “Company”) submits this Petition to the Minnesota Public Utilities Commission (the “Commission”) for approval of its 2021 Gas Utility Infrastructure Cost (“GUIC”) revenue requirement for recovery through a GUIC surcharge to be effective January 1, 2021. In order to continue to address federal, state, and local requests for the relocation of natural gas assets in the public right-of-way to accommodate public work projects and to continue to promote improved safety and reliability in the natural gas distribution system, MERC is requesting recovery of a total 2021 revenue deficiency of approximately \$6.65 million. The costs included in this request are consistent with the eligibility requirements set forth in the GUIC Statute and reflect MERC’s actual reasonable and prudently-incurred GUIC costs for GUIC projects completed in 2019.¹¹

MERC has forecasted significant multi-year program spending for system integrity and safety projects and relocations of infrastructure in the public right-of-way, necessitating out-of-test-year rider recovery under the GUIC Statute. Use of the GUIC Rider to recover GUIC-

¹¹ Minn. Stat. § 216B.1635.

eligible costs will help to reduce rate volatility by introducing gradual rate increases to support the material, yet necessary, capital investments eligible for GUIC Rider recovery.

Gas utility infrastructure costs are costs, not already reflected in the utility's rates, that are incurred for projects involved in (1) the replacement of natural gas facilities required by road construction or other public works by or on behalf of a government agency, or (2) the replacement or modification of existing facilities required by a federal or state agency, including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure.

MERC seeks approval of a GUIC Rider to recover the costs incurred for these two types of projects: (1) annual return on and of capital investments for the replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision forecasted to be in service through 2021; and (2) annual return on and of capital investments and incremental operations and maintenance ("O&M") expense for the replacement or modification of existing natural gas facilities including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure that is required by federal and state agencies. In 2021, MERC is proposing to incur the following incremental costs in order to comply with the Company's distribution integrity management program ("DIMP") and the Commission's orders with respect to excess flow valves ("EFVs"):

- (1) Capital costs of approximately \$4.7 million for the replacement of obsolete materials;
- (2) O&M expense of approximately \$1 million for stop valve survey work;
- (3) O&M expense of approximately \$1 million for sewer cross bore survey work;
- (4) O&M expense of approximately \$1 million for service line mapping; and
- (5) O&M expense of \$101,384 related to EFV customer outreach.

The majority of these projects are the same types of projects for which the Company received approval by the Commission in the 2019 GUIC Rider in Docket No. G011/M-18-281 and for which the Company has requested approval in its currently-pending 2020 GUIC Rider in Docket No. G011/M-19-282. In addition, MERC is requesting approval of cost recovery for O&M expense related to mapping Company service lines in MERC's geographic information system ("GIS") and EFV customer outreach, which are explained in more detail later in this filing.

Regarding the relocation projects, the GUIC Statute permits the recovery of costs necessary to relocate natural gas facilities that must be moved to accommodate state and local projects within the public right-of-way.¹² MERC requests approval of a GUIC Rider surcharge to recover those costs forecasted to be incurred in 2021 to relocate facilities in the public right-of-way as required by governmental agencies. Typically, right-of-way projects are not known in advance. Federal, state, and local government units request MERC to relocate facilities within the right-of-way according to their own schedules and, as a result, MERC oftentimes only knows within the month or a week prior to a right-of-way project commencing.

Regarding MERC's DIMP projects, MERC must comply with federal and state regulations that require natural gas utilities to implement integrity management programs to assess and improve the safety, reliability, and integrity of its natural gas infrastructure. Pursuant to the federal Pipeline Inspection, Protection, Enforcement and Safety Act and Pipeline and Hazardous Materials Safety Administration ("PHMSA") rules, all system operators must know the make-up of their distribution system and adopt written distribution integrity management plans for distribution pipelines.¹³ The law requires distribution system operators to continually identify and assess risks on their distribution systems to remediate conditions that present a

¹² Minn. Stat. § 216B.1635, subd. 1(c)(1).

¹³ PHMSA published the Integrity Management Program for Gas Distribution Pipelines Rule or the "DIMP Rule" (49 C.F.R. Part 192, subpart P) in December 2009. MERC formally implemented its DIMP in 2011 and before that time, MERC's integrity projects were assessed, prioritized, and implemented as part of its life-cycle planning.

potential threat to the integrity of their pipeline system. As a result, MERC must incur annual costs and expenses necessary to implement its DIMP program.¹⁴ The GUIC Statute provides a mechanism for gas utilities to recover costs and expenses of gas utility infrastructure costs associated with the replacement or modification of transmission and distribution facilities required by a federal or state agency.¹⁵ Further, in its February 5, 2019, Order Approving Gas Utility Infrastructure Cost Rider with Modifications and Requiring Compliance Filing (“February 5, 2019 Order”) in Docket No. G011/M-18-281, the Commission expressly recognized that MERC’s “efforts to comply with federal DIMP regulations, or with state guidance pursuant to federal safety regulations, meets the definition of a ‘gas utility project’ under the statute.”¹⁶

As discussed in this filing, MERC requests approval of revised GUIC Rider surcharge rates effective January 1, 2021, to recover MERC’s forecasted 2021 revenue deficiency of approximately \$6.65 million based on projects to be undertaken through 2021 to comply with federal, state, and local governmental requests to relocate natural gas facilities located in the public right-of-way and to comply with federal and state regulations that require natural gas utilities to implement integrity management programs to assess and improve the safety, reliability, and integrity of its natural gas infrastructure. These costs are consistent with the eligibility requirements set forth in the GUIC Statute. Additionally, the requested 2021 revenue deficiency of approximately \$6.65 million includes the true-up calculation for the under-recovered GUIC-eligible costs actually incurred in 2019.

MERC’s Petition includes the following exhibits:

Exhibit A Copy of Minn. Stat. § 216B.1635, Recovery of Gas Utility Infrastructure Costs;

¹⁴ MERC has also implemented a Transportation Integrity Management Program (“TIMP”), but the Company is not requesting recovery for any 2021 projects attributable to TIMP in this filing.

¹⁵ Minn. Stat. § 216B.1635, subd. 1(c)(2).

¹⁶ *In the Matter of Minn. Energy Res. Corp.’s Request for Approval of a Gas Util. Infrastructure Cost Rider*, Docket No. G011/M-18-281, ORDER APPROVING GAS UTILITY INFRASTRUCTURE COST RIDER WITH MODIFICATIONS AND REQUIRING COMPLIANCE FILING at 6 (Feb. 5, 2019) [hereinafter, the “February 5, 2019 Order”].

Exhibit B	Matrix of information included within the Petition as required by Minn. Stat. § 216B.1635 and Commission orders;
Exhibit C	Updates to MERC's GUIC Rider Tariff (Tariff Sheet Nos. 7.20-7.21a);
Exhibit D	Calculations of the proposed 2021 GUIC-eligible revenue requirement and proposed GUIC Rider surcharge rates by customer class to be effective January 1, 2021;
Exhibit E	Details regarding MERC's actual 2019 relocation projects required to accommodate public projects in the right-of-way [Public and Nonpublic Versions];
Exhibit F	MERC's currently known 2020 and 2021 right-of-way relocation projects (to-date) ¹⁷ ;
Exhibit G	MERC's 2021 Gas Infrastructure Project Plan Report;
Exhibit H	Discussion of the magnitude of proposed GUIC costs and known future projects as required by Minn. Stat. § 216B.1635, subd. 4(vi), (vii), and (viii);
Exhibit I	MERC's 2019 GUIC true-up calculation and tracker balance;
Exhibit J	Details regarding MERC's actual 2019 obsolete materials replacement projects [Public and Nonpublic Versions];
Exhibit K	Maps of Aldyl-A main replacement (2021) [Public and Nonpublic Versions]; and
Exhibit L	Project schedule for obsolete material replacements (2021).

Approval of MERC's 2021 revenue requirement and proposed surcharge rates will allow the Company to fund the significant right-of-way projects required by various governmental authorities to accommodate public projects and to continue the important initiatives as discussed in this filing to comply with federal DIMP regulations and with state mandates and guidance issued pursuant to federal safety regulations. The GUIC Rider promotes the public interest by allowing MERC to continue to pursue work required under state and federal regulations. MERC is dedicated to operating a safe and reliable gas system for both its customers and the general public. It is, therefore, crucially important that the Company dedicates investments to assess the integrity of MERC's system and to proactively repair and

¹⁷ As discussed in this filing and MERC's previous GUIC Rider dockets, MERC generally is not informed of right-of-way relocation projects with significant lead time to allow for advanced planning or design of these projects. Rather, state and local government units provide notice to MERC on their own schedules based on available funding and other considerations. Often, initial project plans are modified as a result of funding or other considerations and project requirements, design, and timelines must change as a result.

replace problematic equipment and materials. MERC's integrity projects are aimed at updating the Company's gas infrastructure to reduce the likelihood of leaks or incidents within the communities MERC serves.

II. COMPLIANCE WITH GUIC STATUTE AND COMMISSION ORDERS

Generally, a public utility may not change its rates without undergoing a general rate case in which the Commission comprehensively reviews the utility's costs and revenues. However, the Minnesota Legislature has created exceptions to this general policy, allowing a utility to implement a rider with a rate-adjustment mechanism to expedite recovery of certain costs not reflected in the utility's base rates.

The GUIC Statute allows utilities to seek rider recovery of gas utility infrastructure costs, which are defined under the statute as costs incurred in gas utility projects that are in-service but were not included in the utility's rate base in its most recent general rate case or are planned to be in service during the period covered by the filing.¹⁸ "Gas utility projects" involve either (1) the replacement of natural gas facilities required by road construction or other public works by or on behalf of a government agency, or (2) the replacement or modification of existing facilities required by a federal or state agency, including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure.¹⁹

A utility seeking approval of a GUIC Rider must file a petition, accompanied by a "gas infrastructure project plan report," at least 150 days before the rider is to be implemented. The report must be for a forecast period of one year.²⁰ The report and petition must list the projects and costs proposed for recovery, including, but not limited to:

- project description and scope, estimated costs, and in-service date;

¹⁸ Minn. Stat. § 216B.1635, subd. 1(b)(2).

¹⁹ Minn. Stat. § 216B.1635, subd. 1(b), (c).

²⁰ Minn. Stat. § 216B.1635, subd. 2.

- the government entity ordering or requiring the project and the purpose for which the project is undertaken;
- a description of the estimated costs and salvage value, if any, associated with the existing infrastructure replaced or modified as a result of the project;
- a comparison of the utility's estimated costs and the actual costs incurred, including a description of the utility's efforts to ensure that the costs of the facilities are reasonable and prudently incurred;
- calculations to establish that the rate adjustment is consistent with the terms of the rate schedule, including the proposed rate design and an explanation of why the proposed rate design is in the public interest;
- the magnitude and timing of any known future projects that the utility may seek to recover under the GUIC statute;
- the magnitude of the costs in relation to the utility's base revenue as approved by the Commission in the utility's most recent general rate case, exclusive of gas-purchase costs and transportation charges;
- the magnitude of the costs in relation to the utility's capital expenditures since its most recent general rate case; and
- the amount of time since the utility last filed a general rate case and the utility's reasons for seeking recovery outside of a general rate case.²¹

The Commission may approve a GUIC Rider if the costs proposed for recovery through the rider are prudently incurred and achieve gas facility improvements at the lowest reasonable and prudent cost to ratepayers.²² Costs eligible for rider recovery include not only the plant investment itself but also a rate of return on that investment, income taxes on the rate of return, incremental property taxes, incremental depreciation expense, and any incremental O&M costs.²³ As outlined below and in the attached exhibits, MERC's proposed 2021 GUIC Rider meets each of the requirements of the GUIC Statute.

In MERC's 2019 GUIC Rider docket, Docket No. G011/M-18-281, the Minnesota Department of Commerce, Division of Energy Resources (the "Department") and the Minnesota Office of the Attorney General—Residential Utilities Division (the "OAG") both argued that

²¹ Minn. Stat. § 216B.1635, subd. 3, 4.

²² Minn. Stat. § 216B.1635, subd. 5.

²³ Minn. Stat. § 216B.1635, subd. 4.

MERC had failed to provide all information required by the GUIC Statute, including project descriptions and scope, estimated project costs, and project in-service dates. The OAG also argued that MERC failed to demonstrate that the costs it sought to recover were incremental and failed to sufficiently identify the government requirements supporting its request for cost recovery. The Commission ultimately disagreed, concluding that the costs MERC “seeks to recover through its proposed GUIC rider are incremental; required by federal, state, or local agencies; and supported by sufficient detail to meet the information requirements of the GUIC statute.”²⁴

With respect to MERC’s proposed costs being incremental, the Commission found:

Both the capital costs and the O&M costs derive from new projects that are not currently reflected in the Company’s base rates or the rates that will flow from the pending rate case; the costs are therefore incremental as required by the GUIC statute.²⁵

Like the Company’s 2019 and 2020 GUIC filings, as outlined below, MERC’s proposed 2021 capital and O&M costs derive from new projects and work to be undertaken in 2021 that are not currently reflected in MERC’s base rates. Consistent with the Commission’s prior determinations, those costs are incremental in accordance with the GUIC Statute.

With respect to the OAG’s assertion in Docket No. G011/M-18-281 that MERC had failed to adequately identify the federal, state, or local governmental requirements supporting the proposed projects and costs under its DIMP initiatives, the Commission concluded that MERC’s “efforts to comply with federal DIMP regulations, or with state guidance pursuant to federal safety regulations, meets the definition of a ‘gas utility project’ under the statute.”²⁶ The Commission has reiterated in various GUIC Rider proceedings that utility compliance with federal and state distribution integrity management requirements satisfies the requirements of the GUIC Statute.

²⁴ February 5, 2019 Order at 6.

²⁵ February 5, 2019 Order at 6.

²⁶ February 5, 2019 Order at 6-7.

Regarding the level of detail required for each project proposed under the GUIC Statute, the Commission concluded that MERC's reliance on historic trends and spending was reasonable and sufficient to support the statutory requirements:

Both the Department and the OAG expressed concern that MERC did not provide sufficient detail about its right-of-way relocation costs. This concern is misplaced. The GUIC statute anticipates the use of estimated costs. As MERC has explained, it generally is not informed of future right-of-way relocation work with enough lead time to include specific projects in its forecasts. Therefore, MERC's petition relies on historic spending to support its requested amount. This amount will be trued up annually to actual costs, eliminating any possibility that forecasting will result in overrecovery.

...
[T]he Commission finds MERC's use of a three-year average of relocation costs reasonable both because these costs have been trending higher in recent years and because any overestimation can be corrected for in the true-up.²⁷

The GUIC Statute expressly provides that a GUIC project plan report "must be for a *forecast* period of one year."²⁸ Further, the statute does not specify the level of detail in which "projects" must be identified in a GUIC plan; for example, whether each specific right-of-way relocation project must be identified in the petition and plan or whether the broad project category and scope is what is required. The GUIC Statute directs the Commission to evaluate prudence and actual costs as part of an annual review or true-up process.²⁹ Through that process, a utility with an approved GUIC Rider is able to report on details regarding the specific work and cost of the work that is completed. The Commission has recognized the challenges as well as the significant value of forecasted rider recovery under the GUIC Statute, noting that "[t]he costs of [GUIC-eligible] investments can vary widely from year to year and are difficult to forecast with accuracy. Approving a rider ... [provides] the ability to implement multi-year

²⁷ February 5, 2019 Order at 6-7.

²⁸ Minn. Stat. § 216B.1635, subd. 2 (emphasis added).

²⁹ In particular, Minn. Stat. § 216B.1635, subd. 4(2)(iv) requires "a comparison of the utility's estimated costs included in the gas infrastructure project plan and the actual costs incurred, including a description of the utility's efforts to ensure the costs of the facilities are reasonable and prudently incurred."

pipeline-replacement programs, adjusting the rates annually to correct for over- or under-recovery.”³⁰

Ultimately, while MERC acknowledged that details regarding each individual right-of-way relocation project would not be known in advance, the Company provided extensive details regarding historic right-of-way projects, the annual year-over-year increases in spending on such projects, and the planned work to be completed to replace obsolete materials as well as with respect to stop-valve survey work and sewer cross bore survey work. MERC submitted extensive information, including detailed maps showing proposed main replacements and costs related to the replacement of obsolete materials.³¹ Based on the information submitted, the Commission reasonably concluded that MERC’s proposed 2019 GUIC spending is supported by “sufficient detail to meet the statutory requirements of the GUIC statute.”³²

For 2021, as discussed in detail below, MERC continues to face the same constraints regarding the timing of when the Company is informed of right-of-way relocation projects. In particular, MERC is not informed of all specific future right-of-way relocation work with enough lead time to identify all projects that will occur in a subsequent year. For purposes of this filing, the Company has performed trend analysis based on historic right-of-way relocation projects and spending in order to most accurately forecast 2021 right-of-way project costs. Consistent with MERC’s approved 2019 GUIC Rider in Docket No. G011/M-18-281 and currently-pending 2020 GUIC Rider request in Docket No. G011/M-19-282, MERC proposes to account for any over- or under-estimation of costs in its future true-up filing, which will include a reconciliation

³⁰ *In the Matter of the Petition of N. States Power Co. d/b/a Xcel Energy, for Approval of a Gas Util. Infrastructure Cost Rider*, Docket No. G002/M-14-336, ORDER APPROVING RIDER WITH MODIFICATIONS at 7 (Jan. 27, 2015) (“The clear thrust of the GUIC statute is to establish a mechanism by which utilities may recover out-of-test-year infrastructure investments mandated by federal or state agencies. The costs of these investments can vary widely from year to year and are difficult to forecast with accuracy. Approving a rider ... [provides] the ability to implement multi-year pipeline-replacement programs, adjusting the rates annually to correct for over- or under-recovery.”).

³¹ *In the Matter of Minn. Energy Res. Corp.’s Request for Approval of a Gas Util. Infrastructure Cost Rider*, Docket No. G011/M-18-281, MERC REPLY COMMENTS at Attachment E, pp. 6-8 (Aug. 17, 2018).

³² February 5, 2019 Order at 6.

and reporting on actual specific projects and costs relative to MERC's 2021 forecast. This filing reflects MERC's true-up for 2019 actual right-of-way projects and costs, as discussed in greater detail below.

With respect to MERC's 2021 DIMP projects, the Company's forecasted 2021 costs for DIMP-related obsolete materials replacement project, stop valve survey project, sewer cross bore survey project, and service line mapping project are based on the specific work to be undertaken during 2021. MERC developed this proposed detailed scope of work based on what the Company concluded would be a reasonable scope of projects to be completed in 2021 in light of the fact that these projects are multi-year efforts. Notably, as discussed in more detail below, delays in the approval of MERC's 2019 and 2020 GUIC Rider petitions have resulted in delays in the implementation of O&M projects which has caused those projects to take longer than previously projected.

On July 31, 2019, the Commission issued an Order Accepting Compliance Filings, Requiring MERC to Submit Additional Information, Requiring Annual Compliance Reporting, and Taking Other Action in Docket No. G999/CI-18-41. In that Order, the Commission authorized recovery of EFV compliance costs through GUIC Rider filings.³³ Consistent with that order, MERC is incorporating forecasted costs related to customer outreach to be incurred in 2021.

A. Proposed Projects are Gas Utility Projects

Similar to MERC's 2019 and pending 2020 GUIC filings, MERC is requesting approval for GUIC Rider recovery related to two categories of work that are eligible for rider recovery under the GUIC Statute: (1) right-of-way relocation projects, and (2) investments and expense to be incurred in the assessment and replacement or modification of existing

³³ *In the Matter of a Comm'n Investigation into Nat. Gas Utils' Practices, Tariffs, and Assignment of Cost Responsibility for Installation of Excess Flow Valves and Other Similar Gas Safety Equipment*, Docket No. G999/CI-18-41, ORDER ACCEPTING COMPLIANCE FILINGS, REQUIRING MERC TO SUBMIT ADDITIONAL INFORMATION, REQUIRING ANNUAL COMPLIANCE REPORTING, AND TAKING OTHER ACTION at 6 (July 31, 2019).

facilities required by federal and state agencies as part of the Company's compliance with DIMP regulations and the Commission's Order in Docket No. G999/CI-18-41 with respect to EFV customer outreach. Each of these categories is discussed below, and the individual infrastructure and survey projects proposed for 2021 are detailed in Exhibit G, including project descriptions and scope, an explanation of the necessity and benefits to customers, estimated costs, and in-service dates.

Table 1: Proposed MERC GUIC Rider Budget 2021	
Right-of-Way Relocations	\$ 6,340,000
Obsolete Materials	\$ 4,700,000
Stop-Valve Survey (O&M)	\$ 1,000,000
Sewer Cross Bore Survey (O&M)	\$ 1,000,000
Service Line Mapping (O&M)	\$ 1,000,000
EFV Customer Outreach	\$ 101,384
Total	\$ 14,141,384

Recovery of these costs through the GUIC Rider is in the public interest, as it enables the Company to continue to invest in the safety of its natural gas system and facilitate public infrastructure projects in MERC's service area throughout the state.

1. Right-of-Way Relocations

For 2021, MERC has projected approximately \$6.34 million in capital spending for road and public work projects meeting the definition of gas utility project under Minn. Stat.

§ 216B.1635. Consistent with MERC's approved 2019 scope of GUIC-eligible costs and pending 2020 filing, this category of work for 2021 includes replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by the state or a political subdivision.³⁴ Such projects fit squarely within the GUIC Statute's definition of gas utility projects, which includes

³⁴ See Minn. Stat. § 216B.1635, subd. 1(c)(1) (defining eligible "gas utility projects" to mean "replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision").

“replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision.”³⁵

Consistent with the Commission’s decision on MERC’s 2019 GUIC Rider and the Company’s pending 2020 proposal, MERC has forecasted 2021 right-of-way costs based on recent actual annual costs for such projects. While MERC utilized a three-year average of costs to forecast its 2019 right-of-way project costs, MERC projected its 2020 right-of-way costs based on 2018 actuals, in light of the fact that the Company’s annual right-of-way project costs increased each year from 2015 through 2018.³⁶ MERC’s actual 2019 right-of-way project costs were slightly lower than 2018 and, as a result, MERC is proposing to use 2019 actuals as the basis for the Company’s 2021 forecasted right-of-way costs. As shown in Table 2, MERC’s actual 2019 right-of-way project costs were approximately \$6,340,000, while the average of MERC’s most recent three years’ costs is \$6,395,733. Because 2019 costs were down slightly from 2018, and because this amount will be trued up based on actual right-of-way project costs, MERC proposes to utilize the lower 2019 actual costs as the basis for establishing its forecasted 2021 expense.³⁷

³⁵ Minn. Stat. § 216B.1635.

³⁶ As discussed in the Company’s 2020 GUIC Rider Petition, this approach is consistent with Commission precedent in light of MERC’s trend analysis. In particular, “[t]he Commission often employs averaging in ratemaking to smooth costs that vary from year to year. However, where the variation follows a clear trend, averaging can obscure the trend, resulting in inaccurate rates.” *In the Matter of a Petition by Minn. Energy Res. Corp. for Auth. to Increase Nat. Gas Rates in Minn.*, Docket No. G011/GR-13-617, FINDINGS OF FACT, CONCLUSIONS, AND ORDER at 18 (Oct. 28, 2014).

³⁷ February 5, 2019 Order at 6 (noting that this amount will be trued up annually to actual costs, eliminating the possibility that such forecasting will result in over-recovery).

Table 2: MERC's Relocation Projects 2017-2019		
Project Year	Number of Relocation Projects	Annual Right-of-Way Relocation Costs
2017	86	\$6,257,343
2018	87	\$6,589,132
2019	78	\$6,340,724 ³⁸
3-Year Average (2017-2019)	84	\$6,395,733

As shown in Table 2, the three-year (2017-2019) average is very similar to MERC's 2019 actual spend on right-of-way projects. Despite the fact that the three-year average is slightly higher than 2019 actual spend, the Company is requesting recovery of 2021 right-of-way relocation costs based on 2019 actuals, consistent with MERC's request in its currently-pending 2020 GUIC Rider filing.³⁹ MERC believes that use of 2019 actual spending is the most reasonable basis for forecasting 2021 as it is based on the most recent experience and captures the slight decline in overall right-of-way project costs experienced in 2019.

Table 3, below, provides a comparison of MERC's approved 2019 right-of-way project cost forecast⁴⁰ against actual 2019 right-of-way capital costs.

Table 3. Right-of-Way Relocations (2019 Actuals Compared to Approved 2019 Forecast)	
Approved 2019 Forecast	2019 Actual Costs
\$5,300,000	\$6,340,724 ⁴¹

As can be seen in Table 3, MERC's actual costs for right-of-way relocation projects were significantly higher (over \$1 million greater) than the Company's approved forecast of \$5.3 million. MERC has provided details regarding each right-of-way relocation project completed in 2019 in Exhibit E and has included the actual 2019 costs in the true-up as shown in Exhibit I.

³⁸ This number does not include the four O&M projects, as discussed below, as MERC used the 2019 actual total costs for capital projects as the basis for its 2021 forecast.

³⁹ Notably, MERC's actual road relocation costs for 2019 differ from previously-estimated costs as carryover projects from the preceding year were not included.

⁴⁰ See February 5, 2019 Order at 10 (approving MERC's petition for recovery of approximately \$5.3 million in capital investment to relocate natural gas facilities for public works and right-of-way projects).

⁴¹ Excludes incremental O&M costs, as discussed below.

Details regarding the historic right-of-way relocation work MERC completed in 2019, including an identification of each project, the governmental agency requiring the relocation work, the month the project was placed into service, the project cost, and total footage of main and service line installed for each project is provided in Exhibit E. MERC has previously provided historic detail on its right-of-way projects undertaken from 2015 through 2018 in Docket Nos. G011/M-18-281 and G011/M-19-282.

At the time this filing was prepared, MERC had been provided some preliminary notification regarding 75 potential right-of-way projects for 2020; 11 potential right-of-way projects for 2021; and 4 potential right-of-way projects for 2022. Based on historical projects and costs, MERC expects to be notified of significantly more right-of-way relocation projects in each of these years, consistent with the Company's experience in recent years.⁴² Thus, while MERC cannot currently identify the specific relocation requests that will be made for 2021, it is reasonable to expect that the Company will continue to be required to undertake these relocation projects at the same pace as in recent years and that the resulting costs will be in line with or greater than MERC's recent experience. As a result, MERC's proposal to use 2019 actual costs as the basis for the GUIC revenue requirement calculation for this category of work provides a reasonable estimate of projected costs to be incurred for the replacement of natural gas facilities located in the public right-of-way required by governmental agencies and any difference between the estimated costs and actual expenditures will be subject to future true-up.

The Commission addressed the appropriateness of forecasted right-of-way project costs in the Company's 2019 GUIC Rider in Docket No. G011/M-18-281, concluding that MERC's reliance on historic trends was reasonable and sufficient to meet the statutory requirements.

Both the Department and the OAG expressed concern that MERC did not provide sufficient detail about its right-of-way relocation costs. This concern is misplaced. The GUIC statute anticipates the use of estimated costs. As MERC has explained, it generally is not informed of future right-of-way relocation work with enough lead

⁴² See Exhibit F for a list of currently-known right-of-way projects for 2020 through 2022.

time to include specific projects in its forecasts. Therefore, MERC's petition relies on historic spending to support its requested amount. This amount will be trued up annually to actual costs, eliminating any possibility that forecasting will result in overrecovery.⁴³

Further, in its April 25, 2019, Order Approving Compliance Filing in Docket No. G011/M-18-281, the Commission again reiterated its prior conclusion that MERC's reliance on historic costs with respect to its right-of-way projects does comply with the requirements of the GUIC Statute, again rejecting the same Department arguments raised in comments on MERC's compliance filing:

In its February 5 order approving MERC's GUIC rider, the Commission found that the information MERC submitted in its petition complied with the GUIC statute. The order explained that MERC's use of estimates for certain project costs is contemplated in the statute, and that the annual true-up will eliminate "any possibility that forecasting will result in overrecovery."

...

As for the information required by Minn. Stat. § 216B.1635, subds. 3–4, the February 5 order explains that MERC "generally is not informed of future right-of-way relocation work with enough lead time to include specific projects in its forecasts." MERC therefore submitted estimates of its right-of-way relocation costs based on historic spending. When MERC submits its annual GUIC true-up filing, it will submit the project-specific information required by Minn. Stat. § 216B.1635, subds. 3–4, at which point the Commission will review the projects and costs for reasonableness and prudence.⁴⁴

The need to utilize historic right-of-way project costs as a basis for forecasted spending stems from the fact that MERC is not notified in advance of actual relocation work that must be undertaken each year.⁴⁵ While some government authorities utilize longer-range planning, the level of detail needed to determine the specific affected facilities and to design a relocation

⁴³ February 5, 2019 Order at 6-7.

⁴⁴ *In the Matter of Minn. Energy Res. Corp.'s Request for Approval of a Gas Util. Infrastructure Cost Rider*, Docket No. G011/M-18-281, ORDER APPROVING COMPLIANCE FILING at 2 (Apr. 25, 2019).

⁴⁵ MERC responded to extensive discovery both in Docket No. G011/M-18-281 and in this docket regarding the process, lead time, and communication with governmental entities regarding right-of-way relocation work, in support of the fact that the details of specific right-of-way projects are not known in advance. The Commission recognized this fact in both its February 5, 2019, Order Approving Gas Utility Infrastructure Cost Rider with Modifications and Requiring Compliance Filing and its April 25, 2019, Order Approving Compliance Filing in Docket No. G011/M-18-281.

project still generally is not known until winter or early spring for that construction season, such that MERC is not able to design projects by the end of the calendar year.⁴⁶ The majority of municipalities and townships requesting right-of-way relocations utilize short-term planning due to funding approvals and, as a result, MERC is often not provided notice of the need to relocate facilities until a couple of months to a week before a project begins. These municipal right-of-way projects are also often modified after their initial presentation or delayed due to funding or other considerations by the local governmental unit. While MERC takes steps to obtain information as early as possible for right-of-way relocation projects to allow the Company to undertake the necessary planning for work to be performed for the relocations, the nature of the planning and funding for these right-of-way projects means that MERC will never have a complete picture of upcoming relocation projects prior to the beginning of a construction season.

2. Distribution Integrity Management Work

For 2021, MERC has projected approximately \$7.7 million in capital and O&M spending for DIMP-related work meeting the definition of gas utility projects under the GUIC Statute. Consistent with MERC's approved 2019 scope of GUIC-eligible costs and the Company's currently-pending 2020 GUIC request, this category of work for 2021 includes (1) the replacement of existing obsolete natural gas facilities; (2) the survey and assessment of meter sets to identify the need for replacement or modification of existing infrastructure; and (3) the survey and assessment of sewer laterals and mains to identify the need for repair or replacement of damaged natural gas pipelines as a result of sewer cross bores. In addition, MERC is requesting inclusion of O&M costs to map currently-compiled service line data into the Company's GIS and verify the accuracy of the mapped service line locations, and Commission-approved costs incurred for customer outreach related to EFVs. These projects fit squarely within the GUIC Statute's definition of gas utility projects, which include "replacement or

⁴⁶ See MERC's response to Department Information Request No. 9, included as Attachment B to MERC's September 17, 2019, reply comments filed in Docket No. G011/M-19-282.

modification of existing natural gas facilities, including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure that is required by a federal or state agency.”⁴⁷ The \$7.7 million estimate is lower than the Commission-approved 2019 GUIC Rider and the Company’s currently-pending 2020 GUIC Rider recovery request, and reflects the Company’s forecast of specific projects to be undertaken and placed into service in 2021. The Company has budgeted at a lower level for 2021 DIMP-related work in part due to projected spending for the Rochester Natural Gas Extension Project. However, MERC anticipates that in future years, the capital budget for DIMP-related work will increase to amounts similar to those requested in previous GUIC filings. Details regarding each project category are discussed in Exhibit G and summarized below.

Despite the fact that MERC approaches its DIMP programs with a concrete plan of action, ongoing pipeline inspections may result in the reprioritization of projects as risks are identified that may require more immediate intervention. The need for flexibility in planning is critical in pipeline integrity work, and emergent projects can result in fluctuating costs year over year. The Commission has previously recognized this dynamic in other GUIC Rider proceedings, noting that the costs of these investments can vary widely from year to year and are difficult to forecast with accuracy.⁴⁸ As a result, rider recovery allows the utility the ability to implement multi-year pipeline safety and assessment programs, and adjust the rates annually to correct for over- or under-recovery.⁴⁹

In accordance with the PHMSA Integrity Management Program for Gas Distribution Pipelines Rule, 49 C.F.R. Part 192, subpart P, MERC must determine and implement measures designed to reduce the risks from failures of its gas distribution and transmission facilities.

⁴⁷ Minn. Stat. § 216 B.1635, subd. 1(c)(2).

⁴⁸ See *In the Matter of the Petition of N. States Power Co., d/b/a Xcel Energy, for Approval of a Gas Util. Infrastructure Cost Rider*, Docket No. G002/M-14-336, ORDER APPROVING RIDER WITH MODIFICATIONS at 7 (Jan. 27, 2015).

⁴⁹ See *id.*

Under Subpart P, all natural gas distribution companies are required to develop, write, and implement an integrity management program with the following elements:

- Understand system design and material characteristics, operating conditions and environment, and maintenance and operating history;
- Identify existing and potential threats;
- Evaluate and rank risks;
- Measure integrity management program performance, monitor results, and evaluate effectiveness;
- Periodically assess and improve the integrity management program; and
- Report performance results to PHMSA, and where applicable, also to states.

In addition to federal regulatory requirements, MERC is obligated to comply with state agency (in this case, the Minnesota Office of Pipeline Safety or “MNOPS”) requirements, where MNOPS is enforcing federal regulations. For example, MERC has undertaken the sewer cross bore surveys to comply with the acceptable practices and documentation requirements for the installation of gas pipelines outlined in a 2010 safety alert issued by MNOPS.⁵⁰ The safety notice was issued after gas lines had been punctured by sewer cleaning contractors and, on several occasions, “the gas ignited, resulting in significant injuries and property damage.”⁵¹ Thereafter, the acceptable practices and documentation requirements were issued by MNOPS to help avoid the recurrence of these significant safety issues posed by cross bores when utilities are installing gas mains and services. This MNOPS alert imposes obligations on natural gas system operators to take specified actions for any new installations and also highlights an industry-wide potential safety issue affecting legacy installations.

⁵⁰ See MINN. DEP’T OF PUB. SAFETY, *Alert Notice – MNOPS AL-01-2010 to Natural Gas Pipeline Operators – Preventing Sewer Service Lateral Cross Bores: Acceptable Practices and Documentation Requirements* (May 10, 2010), available at <https://dps.mn.gov/divisions/ops/forms-documents/Documents/Alert%20Notice%2001-2010.pdf>.

⁵¹ *Id.*

The Commission has expressly recognized in prior GUIC Rider dockets that utility compliance with federal DIMP, state implementation of federal safety requirements, and state agency requirements meet the requirements under the GUIC Statute that the replacement, modification, survey, assessment, or other work be required by a federal or state agency. The Commission has specifically stated that:

Under the federal Pipeline Safety Improvement Act of 2002 and regulations issued by the U.S. Department of Transportation's Pipeline and Hazardous Material Safety Administration, operators of natural-gas transmission and distribution pipelines *must* implement pipeline integrity management programs to assess and improve the safety, reliability, and integrity of their natural-gas infrastructure.⁵²

The Commission has consistently approved rider recovery of DIMP investments, determining that these costs meet the statutory requirements for rider recovery as gas utility infrastructure costs. The Commission also concluded, with respect to MERC's specific DIMP-related investments and assessments, that MERC's "efforts to comply with federal DIMP regulations, or with state guidance pursuant to federal safety regulations, meets the definition of a 'gas utility project' under the statute."⁵³

Details regarding each of the proposed projects, project costs, and other pertinent information are provided in the following sections.

a. Replacement of Obsolete Materials—\$4.7 Million Capital Costs

In its 2019 GUIC Rider filing, MERC explained that with GUIC Rider recovery, the Company was proposing to implement a multi-year plan in accordance with its DIMP targeted at the removal and replacement of three types of materials that pose known risks to the Company's distribution system. In particular, MERC identified known risks related to Aldyl-A pipe, copper, and X-Trube pipe.

⁵² *In the Matter of the Petition of N. States Power Co., d/b/a Xcel Energy, for Approval of a Gas Utility Infrastructure Cost Rider*, Docket No. G002/M-14-336, ORDER APPROVING RIDER WITH MODIFICATIONS at 3 (Jan. 27, 2015).

⁵³ February 5, 2019 Order at 6.

Additionally, MERC's filing discussed the need to remove and replace other materials known to pose a significant risk as they are discovered. For example, when bare steel is discovered, it must be replaced to mitigate the risk of future failure.⁵⁴ For the 2021 GUIC Rider, MERC has forecasted \$4.7 million of capital costs for the replacement of obsolete materials. Each specific project, including the location, obsolete material to be replaced, installation vintage in the case of Aldyl-A, footage of main and number of services, and cost estimates broken out by main and service, is summarized in Table 4, below. Maps showing the specific location of the identified projects are included as Exhibit K to this filing. A schedule of planned work and in-service dates for each project is included as Exhibit L.

Table 4: Obsolete Material Replacement 2021							
Obsolete Material	City	Vintage	Main (footage)	Services (# of services)	Main Estimate	Services Estimate	Total
Aldyl-A	Pine City	1970s	9,250	110	\$462,500	\$260,700	\$723,200
Aldyl-A	Rochester	1970s	4,950	150	\$247,500	\$355,500	\$603,000
Aldyl-A	Caledonia	1970s	3,400	25	\$170,000	\$59,250	\$229,250
Aldyl-A	Crosby	1970s	16,600	150	\$830,000	\$355,500	\$1,185,500
Aldyl-A	Buhl	1970s	6,500	115	\$325,000	\$272,550	\$597,550
Aldyl-A	Grand Rapids	1970s	2,250	55	\$112,500	\$130,350	\$242,850
X-Trube	Various			225	\$0	\$533,250	\$533,250
Copper/Bare Steel	Various			35	\$0	\$85,400	\$85,400
Stop Valves	Various			625	\$0	\$500,000	\$500,000
TOTAL			42,950	1,490	\$2,147,500	\$2,552,500	\$4,700,000

MERC's forecasted 2021 costs reflect a reasonable projection of costs to be incurred in 2021 for the replacement of Aldyl-A, X-Trube, copper, and bare steel based on the Company's historic costs, experience with obsolete materials replacements, and unique factors affecting Aldyl-A replacements such as non-locatable pipe and the need to obtain easements and

⁵⁴ While MERC has replaced all known bare steel on its system, occasionally the Company discovers additional bare steel while working on its lines. Once discovered, MERC schedules the bare steel for immediate replacement. Since 2019, replacement of bare steel has been tracked as part of MERC's obsolete materials replacement project.

conduct surveys. For its 2021 forecast, MERC applied the same per-foot cost for main installations as the Company used in its pending 2020 GUIC Rider petition in Docket No. G011/M-19-282, based on consideration of historic costs and experience and unique factors affecting these projects. The Company's service line estimates are derived from the average actual service line replacement costs from 2019. Specifically, based on the most recent actual data for obsolete materials replacement projects including Aldyl-A, copper, and X-Trube, MERC forecasted a cost of \$2,370 per service for service replacements.

As discussed in Docket No. G011/M-19-282, a number of factors impact the average cost for obsolete materials replacement projects including the potential to encounter rock, the need to obtain easements and conduct surveys, and other unusual circumstances. The following factors are also relevant to MERC's actual costs for obsolete materials replacement projects:

- Older vintage Aldyl-A has sometimes been found to be non-locatable. In such circumstances, additional costs will be experienced in order to vacuum excavate to locate mains.
- Obsolete materials replacements require MERC to complete all associated restoration activities following construction.
- The older vintage Aldyl-A to be replaced generally is in more established neighborhoods with larger and more established trees, requiring additional boring to install replacement pipe.
- Surveys are often required for obsolete materials replacement projects to identify any existing rights-of-way and determine the need for any additional easements. If easements are needed, there are also costs to acquire such easements.
- Obsolete materials replacement projects generally will require city or county permitting, including the cost of such permits.
- Some communities require dual main to be installed for new and replacement installations to minimize service crossings, resulting in more installed footage for the replacement of pipe.
- Larger replacement projects require MERC to prepare stormwater pollution prevention plans whereas the road contractor is often responsible for such plans for right-of-way road relocation projects.

These factors support MERC's 2021 forecasted obsolete materials replacement costs. While the actual costs incurred will be subject to true-up, MERC's forecasted 2021 cost estimate reflects a reasonable scope of spending for obsolete materials replacements in 2021. MERC has significant work to do to remove obsolete materials from its system. That effort will necessarily be a multi-year effort and the pace of the work completed can be controlled. The Company's planned spending for 2021 replacements is based in large part on the need to balance removal of risks against avoiding significant rate impacts. In determining the proposed level of annual spending, MERC evaluated historic DIMP project spending as well as other anticipated spending to understand the level of annual investment under DIMP programs that could be supported in rates.

GUIC Rider recovery allows the Company to implement multi-year programs that are comprehensive and cost effective, thus providing benefits to MERC's customers beyond increased safety and reliability. A proactive approach benefits customers because work undertaken systematically and strategically reduces costs compared to work undertaken in a reactionary or immediate threat mode, and allows MERC to engage in regional planning to minimize inconvenience to impacted communities.

(1) Obsolete Materials – Aldyl-A

PHMSA has issued several Advisory Bulletins about certain polyethylene pipe material called Aldyl-A, a plastic material that becomes brittle over time and is subject to sudden failure from cracking.⁵⁵ Additionally, some of these obsolete installations have been identified as not being locatable, creating additional risk of third-party or MERC contractor damage. As discussed in Docket Nos. G011/M-18-281 and G011/M-19-282, on April 23, 1998, the National Transportation Safety Board (the "NTSB") issued a Special Investigation Report, *Brittle-Like*

⁵⁵ PHMSA, Pipeline Safety: Updated Notification of the Susceptibility to Premature Brittle-Like Cracking of Older Plastic Pipe, Docket No. PHMSA-2004-19856 (Sept. 6, 2007), *available at* <https://www.phmsa.dot.gov/regulations-fr/notices/07-4309>.

Cracking in Plastic Pipe for Gas Service, NTSB/SIR-98/01. The report described the results of the NTSB's special investigation of polyethylene gas service pipe, which addressed three major safety issues: (1) vulnerability of plastic piping to premature failures due to brittle-like cracking; (2) adequacy of available guidance relating to the installation and protection of plastic piping connections to steel mains; and (3) effectiveness of performance monitoring of plastic pipeline systems to detect unacceptable performance in piping systems.

The NTSB found that failures in polyethylene pipe in actual service are frequently brittle-like, slit failures, not ductile failures. It concluded the number and similarity of plastic pipe accident and non-accident failures indicate past standards used to rate the long-term strength of plastic pipe may have overrated the strength and resistance to brittle-like cracking for much of the plastic pipe manufactured and used for gas service from the 1960s through the early 1980s.

The NTSB made several recommendations to PHMSA and to trade organizations in its 1998 special investigation report. In response, PHMSA issued advisory bulletins advising natural gas pipeline distribution system operators of the potential for brittle-like cracking of plastic pipes installed between the 1960s and early 1980s⁵⁶ and identifying several environmental, installation, and service conditions in which plastic piping is used that could lead to premature brittle-like cracking failure.⁵⁷

On June 11, 2014, the California Public Utilities Commission issued a Hazard Analysis & Mitigation Report on Aldyl A Polyethylene Gas Pipelines in California, summarizing the history and risks associated with Aldyl-A pipes.⁵⁸ As discussed in that report, while DuPont modified

⁵⁶ ADB-99-01, Potential Failure Due to Brittle-Like Cracking of Certain Polyethylene Plastic Pipe Manufactured by Century Utility Products Inc., 64 FR 12211 (Mar. 11, 1999).

⁵⁷ ADB-02-07, Notification of the Susceptibility to Premature Brittle-Like Cracking of Older Plastic Pipe, 67 FR 70806 (Nov. 26, 2002).

⁵⁸ California Public Utilities Commission, Hazard Analysis & Mitigation Report on Aldyl A Polyethylene Gas Pipelines in California (June 11, 2014), *available at* <https://www.cpuc.ca.gov/WorkArea/DownloadAsset.aspx?id=8947>.

the resin formula used in Aldyl-A pipe over the years, subsequent resin formulations continued to experience low resistance to slow crack growth.

Approximate Years of Manufacture	Alathon Resin	Relative Resistance to Slow Crack Growth
1965-1970	5040	Low
1970-1972	5043, LDIW	Low
1970-1983	5043, non-LDIW	Medium
1983-1988	5046-C	Medium High
1988-1992	5046-U	High
1992-1999	5046-O	Very High

On May 26, 2016, the Plastic Pipe Database Committee (the “PPDC”) released an update on in-service failures of plastic pipe and components.⁵⁹ For the past 16 years, the PPDC has been receiving information on in-service plastic piping system failures and/or leaks with the objective of identifying possible performance issues. According to the report:

Aldyl failure data continues to be reported. Moreover, as depicted in Figure 1, there are now two peaks of failure data submissions (2000-2005, 2010-2014). Analysis has determined that the range of installation years for these peaks appears consistent. Therefore the installation years are more reflective of materials experiencing failures/leaks. Failure causes demonstrate that installation practices and the operating environment can greatly impact the service life of the Aldyl piping.

Operators should look at the performance of their own piping systems. Each operator serves a unique and defined geographic area and their system infrastructures vary widely based on a multitude of factors, including facility condition, past engineering practices and materials. Each operator should evaluate the actions in light of system variables, the operator’s independent integrity assessment, risk analysis and mitigation strategy.

⁵⁹ The PPDC is composed of representatives from the American Public Gas Association, the American Gas Association, Plastics Pipe Institute, National Association of Regulatory Utility Commissioners, National Association of Pipeline Safety Representatives, NTSB, and the U.S. Department of Transportation’s PHMSA.

Based on MERC's DIMP and risk assessment, the Company has determined that replacement of Aldyl-A, as outlined in the Company's 2019, 2020, and this current GUIC Rider filing, is appropriate to reduce known risks on MERC's system.

MERC's system contains Aldyl-A pipe that was installed beginning in the 1960s and through 1983. MERC began its replacement efforts in 2019 with the oldest vintage Aldyl-A piping and intends to continue to replace all Aldyl-A in future years. Table 5 below provides information regarding the known quantity of Aldyl-A on MERC's system at the time the Company began its obsolete materials replacement program targeting Aldyl-A in 2019 as well as forecasted remaining Aldyl-A at the end of 2020 and 2021 based on planned replacements.⁶⁰

Table 5. Known Aldyl-A Main on MERC's System by Decade			
DOT Decade	Miles at End of 2019	Projected Miles at End of 2020	Projected Miles at End of 2021
1960-1969	10.4	6.0	6.0
1970-1979	271.1	261.8	253.7
1980-1983	109.5	108.1	108.1
Total	391.0	375.9	367.8

During 2019, through MERC's GUIC obsolete materials replacement project, the Company removed approximately 64,000 feet of Aldyl-A main and approximately 500 Aldyl-A services across its service area. As shown in Table 5, MERC estimates that approximately 390 miles of Aldyl-A main remained on the Company's system at the end of 2019. Details regarding replacement projects completed in 2019 are discussed below and included in Exhibit J

⁶⁰ While MERC has undertaken efforts to verify all installed Aldyl-A main on its system, during some periods, Aldyl-A was classified in MERC's system generically as polyethylene ("PE") pipe. The total amount of known Aldyl-A reflected in Table 5 is greater than MERC had previously identified and reported in its prior GUIC Rider filings as a result of some quantities of this material having been categorized as PE Pipe. Table 5 reflects the best available data as of the time this filing was prepared. The Company continues to review its maps and records for accuracy, and will provide any updates in future filings.

In 2020, as stated in the Company's filing in Docket No. G011/M-19-282 and shown in Table 5, MERC is targeting the replacement of approximately 15 miles of Aldyl-A main. Following completion of replacement projects in 2020, MERC estimates that it will have approximately 376 miles of Aldyl-A main remaining across the distribution system. In 2021, MERC is planning to remove 8 miles of 1970s vintage Aldyl-A main and associated services. Maps showing the specific location of the identified projects are included as Exhibit K to this filing and a schedule of planned work and in-service dates for each project is included as Exhibit L.

(2) Obsolete Piping and Fittings—Copper and X-Trube

MERC has removed nearly all the remaining copper and X-Trube piping on its distribution system. X-Trube piping, thin-walled steel tubing, was installed throughout the industry in the 1960s as a cost-saving measure because it was less expensive than other piping. It is generally not durable, and cannot be repaired. Similarly, copper facilities are some of the oldest and the lines and fittings have been prone to leak and failure. Replacement of these materials is required because these materials have been known to fail and any repair would increase the risk of failure. As a result, MERC must replace the facilities at issue in order to address these known risks.

As indicated in Table 4, above, MERC has allocated a small dollar amount related to the removal and replacement of facilities that contain X-Trube piping, bare steel, and copper. Specifically, MERC is planning to replace approximately 225 X-Trube services in the Company's Southwest, Southeast, and Northwest regions in 2021 as provided in Table 6 below, and will replace bare steel and copper as discovered.

Table 6: Planned 2021 X-Trube Replacements			
Region	Town	Known X-Trube Services After 2020 Replacements Completed	Planned 2021 Replacements
Northwest	Bemidji	100	75
Southeast	Caledonia	350	50
Southeast	Houston	6	
Southeast	Lanesboro	9	9
Southeast	Plainview	2	
Southeast	Preston	37	
Southeast	Rochester	158	
Southeast	Harmony	29	27
Southeast	St. Charles	13	13
Southeast	Stewartville	1	1
Southwest	Tracy	11	
Southwest	Trimont	54	
Southwest	Truman	20	
Southwest	Walnut Grove	133	50
Total		923	225

MERC notes that since the Company's 2020 GUIC Rider filing, MERC has performed Distribution System Integrity (“DSI”) surveys to specifically identify and verify X-Trube services. As a result of those surveys, MERC has identified additional X-Trube services requiring replacement across the state, increasing the total number of known X-Trube services from 997 to 1,024, and requiring additional replacements. MERC will track replacements of X-Trube services as part of its obsolete materials replacement project for future true-up based on actual project costs.

As discussed in greater detail below, in 2021, MERC is also proposing to undertake the next phase of its service line mapping project – a multi-year effort to map the presumed location of service lines to the Company’s GIS and verify the mapped location of said lines in order to have a more accessible and accurate system of records regarding service line installations,

materials, and maintenance. The proposed GIS service line mapping will allow MERC to more accurately “understand system design and material characteristics, operating conditions and environment, and maintenance and operating history,” in accordance with PHMSA’s Integrity Management Program for Gas Distribution Pipelines Rule (49 CFR Part 192, subpart P).

(3) Obsolete and Faulty Meter Set Valves and Equipment

As explained in the Company’s 2019 GUIC Rider filing, certain types of valves (e.g., the Rockford Eclipse and Mueller Luboseal valves) are known to fail. MERC has had one incident with the failure of a Rockford valve at a commercial facility in Grand Rapids, Minnesota. A gas leak was detected at the facility and the valve disintegrated during the turnoff process, causing gas to blow until MERC’s crew could isolate the failure. To detect these known risks, MERC must survey the equipment at all of its meter sets and replace the facilities found to be suspect.

MERC began the survey of its meter sets in 2019 and plans to continue with its program to survey meter set valves in 2021, as discussed below. Any valves that are identified in the survey to be at risk of failure, as well as any obsolete equipment posing an immediate threat, will be replaced and accounted for as part of MERC’s obsolete materials program. Identified risks that do not pose an immediate risk of failure will be tracked, analyzed, and scheduled for replacement beginning in 2021.

Through 2019, in the Rosemount region, 427 Rockford Eclipse and 13,565 Mueller Luboseal valves, which pose a risk of failure, have been identified as a result of MERC’s meter set surveys. In the Rochester region, 714 Rockford Eclipse and 7,361 Mueller Luboseal valves have been identified. Based on the results of MERC’s 2019 surveys and the identified valves requiring replacement, MERC is proposing to spend \$500,000 to begin replacing Rockford Eclipse valves in 2021. MERC has initially forecasted a cost of approximately \$800 for each meter set requiring valve replacement based on current contract rates for meter work and materials and is targeting the replacement of 625 valves in 2021. Actual costs for these replacements will depend on the condition of each meter set and affected valves. To the extent

actual costs for replacement of these valves is less than this initial forecast, MERC may be able to complete additional replacements in 2021.

MERC has prioritized the replacement of identified Rockford Eclipse valves in 2021 because these valves pose a higher risk on MERC's system due to their design. In particular, when turning these valves, it is possible for the valve to break off and the design of these valves makes it difficult to verify whether the valve is turning. Replacement of the identified at-risk valves will be a multi-year effort and MERC will account for the actual number of valves replaced and cost of the work completed in its future true-up filing reports.

b. Meter Set Survey—\$1 Million O&M

Beginning in 2019, MERC budgeted \$2 million in incremental O&M to begin a multi-year initiative to survey all meter sets to assess any risk of failure of valves and other meter set components and to identify the need for replacement of faulty valves. As explained in the Company's 2019 GUIC Rider filing, due to the large scope of this effort and MERC's dispersed service territory, the Company engaged a third-party contractor to perform the survey work. While MERC originally anticipated completing the survey of all meter sets in 2020, delays in the approval of MERC's 2019 and 2020 GUIC rider filings resulted in delays in the commencement of this work and, therefore, fewer surveys being completed than originally projected based on a full 12 months to complete the scope of work. Table 7 below shows the number of meter surveys completed in 2019, as well as the number of meter surveys the Company anticipates completing in 2020 and 2021.⁶¹

⁶¹ It should be noted that the scope of surveys completed in 2020 will depend on the timing of the Commission's decision approving the Company's currently-pending 2020 GUIC Rider petition in Docket No. G011/M-19-282.

Table 7. Meter Set Survey Completion (2019-2021)				
Region	Total # Meters	Surveys Completed 2019 (Actual)	Planned Surveys 2020 (Forecast)	Planned Surveys 2021 (Forecast)
Southeast	81,106	29,380	51,726	-
Central	64,412	52,352	12,060	-
Northwest	27,017	-	-	27,017
Northeast	29,821	-	6,850	22,971
Southwest	36,408	-	36,408	-
Total	238,764	81,732	107,044	49,988

While the Company's currently-pending 2020 GUIC Rider filing in Docket No. G011/M-19-282 anticipated completion of the meter set survey project in 2020, a significant number of surveys remain to be completed, including all surveys outside of MERC's most dense service areas, necessitating an additional year to complete the full scope of work. MERC is unable to begin work scheduled for 2020 until the Company has some assurance that it will be able to recover costs for the surveys completed in 2020. Moreover, a three-year program timeline is consistent with the Company's original request approved by the Commission in Docket No. G011/M-18-281. MERC now anticipates completing the surveys in Rochester and Rosemount, as well as beginning meter surveys in the Company's more disperse service areas in 2020. MERC proposes to complete all remaining meter surveys in 2021.

MERC proposes a 2021 budget to complete this work of \$1 million based on the forecasted scope of work remaining to be completed in 2021. Because the Company's 2020 GUIC rider is still pending in Docket No. G011/M-19-282, and MERC does not intend to execute contracts for the 2020 work until the Commission has approved its 2020 rider filing, it is possible that a portion of the work forecasted for 2020 will be delayed to 2021. To the extent the Commission approves recovery of MERC's 2020 GUIC rider based on 12 months of forecasted sales, it is likely MERC will again under-recovery its actual costs for 2020.

Further, as explained in Docket No. G011/M-19-282, in 2019, MERC began the meter set survey project with meter sets in Rochester and Rosemount, the most densely populated

areas that MERC serves.⁶² But MERC serves 179 communities across the State of Minnesota with a service area that stretches from the northernmost border of the state to the Iowa border, across the entirety of Minnesota. While the costs for 2019 surveys were lower than forecasted for the scope of work remaining in 2021, selected contractors will need to spend significantly more time traveling which is likely to increase contractor costs. While MERC has not yet secured contractor(s) for the 2020 or 2021 scope of work, due in part to not having a determination on its 2020 GUIC Rider petition, delays in finalizing contracts are likely to increase costs as contractors commit to other jobs and have fewer resources available.

c. Sewer Cross Bore Survey—\$1 Million O&M

As discussed in the Company's 2019 and 2020 GUIC Rider filings, MERC has developed and implemented safety plans to reduce the risk to customers and minimize the threat of sewer cross bores. MERC intends to continue this initiative in 2021. PHMSA's Gas Distribution Pipeline Integrity Management Enforcement Guidance notes that:

Cross bores of gas lines in sewers have been reported at 2-3 per mile in high risk areas – predominately where trenchless installation methods were used for gas line installs and where sewers and gas lines are in proximity of each other. As such, operators must determine the potential for cross bore of sewers resulting in gas lines intersecting with sewers.⁶³

While MERC has been inspecting sewer laterals and mains under an ongoing sewer line lateral inspection program since 2014, the Company determined that expanded inspections are prudent and necessary to identify and mitigate the risk posed by a cross bore. As a result, beginning in 2019, MERC expanded its surveys to identify conflicts with the help of a third-party

⁶² *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, MERC PETITION at 23 (Apr. 24, 2019) ("This cost estimate is based on the bids MERC received for the work to be performed in 2019 and consider[ing] the travel time that will be required to survey the more disperse portions of MERC's service area that will remain after 2019.").

⁶³ PHMSA, Gas Distribution Integrity Management Program: FAQs, *available at* <https://primis.phmsa.dot.gov/dimp/faqs.htm>.

contractor,⁶⁴ spending an additional \$1 million over and above the amount approved for recovery in MERC's 2018 base rates. That \$1 million in additional spending was approved for recovery in the 2019 GUIC Rider. MERC proposed to continue this multi-year effort in the Company's currently-pending 2020 GUIC Rider filing, with work continuing into 2021. Consistent with the Company's request in its 2019 and 2020 GUIC Rider filings, the Company anticipates an additional 6,500 services will be inspected as part of this survey program in 2021 and anticipates these surveys in 2021 will be focused in the Southwest and Central regions of MERC's service area. MERC's proposed \$1 million spend for these inspections in 2021 is in-line with previous forecasts (6,500 sewer surveys at approximately \$150 per survey) and supported by the Company's 2019 actuals. For comparison, and as explained below, MERC completed 6,621 inspections in 2019, at a cost of \$999,938. Continuing these surveys is important for the safety of the Company's system and for customers, as gas lines in sewer lines represent an immediate hazard.

In developing its sewer cross bore survey project, the Company developed phases of the project based on the assessment of a variety of risk factors, including: (1) high occupancy facilities where occupants have limited mobility, which may cause a significant delay in evacuation efforts should an incident occur (i.e., hospitals and nursing homes); (2) past cross bore activity; (3) high occupancy facilities where the occupants generally are able to quickly evacuate (i.e., schools, churches, and daycares); and (4) pipe vintage. Further, each work phase included only plastic pipe, which is more vulnerable to damage than steel pipe installations from sewer cleaning equipment; as such, plastic pipe installations are the primary focus of MERC's sewer cross bore survey. MERC's cross bore surveys completed to date have

⁶⁴ As discussed in MERC's 2019 and 2020 GUIC Rider filings, although MERC tries to minimize outsourcing DIMP work when possible, in certain instances, external expertise is needed to ensure the safe and efficient completion of system assessments. The camera inspection and some administrative aspects of the Sewer Cross Bore Survey project will be outsourced because the Company has neither the internal expertise nor the equipment available to perform the specialized inspection aspect of the program.

focused on plastic pipe installed between September 1, 2000, to September 1, 2010, and the gas facilities of high occupancy areas, including schools, churches, daycares, apartment complexes, hospitals, and nursing homes. In 2021, the Company plans to begin targeting plastic pipe installed from September 1, 1990, to September 1, 2000, unless it can be proven that open trench installation was used.⁶⁵

Again, as in past years, for 2021, the camera inspection of the sewer cross bore survey project will be outsourced because the Company has neither the internal expertise nor the equipment available to perform these specialized inspections. In accordance with MERC's currently-approved GUIC Rider, the true-up mechanism will ensure that actual program costs will be recovered, and any over- or under-recovery will be accounted for in the annual true-up process.

d. GIS Service Line Mapping—\$1 Million O&M

MERC is proposing \$1 million in incremental O&M expense in 2021 to begin a new project under the Company's GUIC Rider – the GIS service line mapping project. This project is the next step in the Company's mapping project — a comprehensive effort to verify, compile, and map MERC's systems and data, and ultimately link the data to the Company's GIS. The proposed GIS service line mapping will allow MERC to more accurately “understand system design and material characteristics, operating conditions and environment, and maintenance and operating history,” in accordance with PHMSA's Integrity Management Program for Gas Distribution Pipelines Rule (49 C.F.R. Part 192, subpart P). Currently, MERC does not have its service lines mapped to GIS, which creates challenges for identifying and remediating service line risks and also increases risks associated with third party damage.

49 C.F.R. 192.1007(a)(3) of PHMSA's DIMP regulations requires natural gas system operators to identify additional information needed and to develop a plan for gaining that

⁶⁵ Many times, conflicts between sewer and gas lines are the result of the past construction practices that were associated with the use of trenchless construction methods for the installation of natural gas lines.

information over time through normal activities including design, construction, and operations or maintenance activities. MERC's GIS service line mapping project is intended to compile available information and to allow the Company to identify additional information necessary to understand and address risks on the Company's system.

MERC previously requested and received approval to recover a portion of costs for the two initial phases of its mapping project in base rates in Docket Nos. G011/GR-15-763 and G011/GR-17-563. The first phase related to developing the mapping systems and data that MERC's field personnel utilize to locate mains, manage outages, determine flow modeling, and undertake other critical infrastructure tasks.⁶⁶ To improve the quality and utilization of the mapping systems, this phase of the project involved verifying as-built drawings and field data for main. This information allows MERC to verify age, materials, fittings, and similar system components of main, and supports required Minnesota Department of Transportation reporting. The second phase of the MERC mapping project, which began in 2016, involved compiling paper main and service line documentation and information and scanning paper documentation into a comprehensive database. This second phase "was the necessary prerequisite to enable future mapping and linkage to MERC's GIS."⁶⁷

For background purposes, in MERC's 2015 rate case, Docket No. G011/GR-15-736, the Commission authorized costs totaling \$600,000—approximately \$200,000 for the main mapping phase of the project and \$400,000 for the service line documentation phase of the project.⁶⁸ Later, in MERC's 2017 rate case, Docket No. G011/GR-17-563, the Commission allowed

⁶⁶ *In the Matter of the Application of Minn. Energy Res. Corp. for Auth. to Increase Rates for Nat. Gas Serv. in Minn.*, Docket No. G011/GR-17-563, DIRECT TESTIMONY AND SCHEDULES OF SETH S. DEMERRITT at 49 (Oct. 13, 2017).

⁶⁷ *Id.*

⁶⁸ *In the Matter of the Application of Minn. Energy Res. Corp. for Auth. to Increase Rates for Nat. Gas Serv. in Minn.*, Docket No. G011/GR-15-763, FINDINGS OF FACT, CONCLUSIONS, AND ORDER at Order Point 2 (Oct. 31, 2016).

\$178,563 in expense related to compiling the service line documentation into a comprehensive database.⁶⁹

With this filing, MERC is proposing to begin the next phase of this project. Specifically, MERC is proposing a multi-year effort to map the presumed location of Company service lines based on known meter and main locations and use available technology to begin linking the service line information to the Company's GIS. This scope of work is necessary to link the service line information that was compiled during phase 2 of the project and to actually map the location of service lines into GIS. To ensure the accuracy of the mapped service lines in GIS, the Company proposes to use a third-party contractor to validate the location of the presumed lines, as MERC currently does not have internal resources to perform this work. MERC has forecasted \$1 million in 2021 for this multi-year effort based on preliminary cost estimates for this scope of work.

To date, MERC has not undertaken any steps to map its service line data to GIS. Thus, this proposed project is incremental from the scope of work previously approved in MERC's 2018 rate case. Moreover, completion of the service line mapping project is necessary to address the current data gap on MERC's system to allow the Company to identify and track risks, and to help prevent third-party damage from excavation activities.

The proposed service line mapping project qualifies as a "gas utility project" under the GUIC Statute, as this work is "necessary to determine the need for replacement or modification of existing infrastructure that is required by federal or state agency." More specifically, having data regarding the location and material infrastructure in the Company's GIS allows MERC to systematically analyze known risks on the Company's distribution system. This will further MERC's ability to comply with federal regulations that set standards for how operators validate

⁶⁹ *In the Matter of the Application of Minn. Energy Res. Corp. for Auth. to Increase Rates for Nat. Gas Serv. in Minn.*, Docket No. G011/GR-17-563, FINDINGS OF FACT, CONCLUSIONS, AND ORDER at 7 (Dec. 26, 2018) (adopting the Administrative Law Judge's finding that including \$178,563 in mapping project expense in the 2018 test year was reasonable).

the integrity of gas distribution assets by identifying risks and evaluating and prioritizing repairs to mitigate the risks and threats. The costs associated with the Company's proposed service line mapping project are, therefore, recoverable under the GUIC Statute.

As with the other projects included in MERC's GUIC rider request, the reconciliation feature of the GUIC Rider will ensure that only actual costs will be recovered, and any over- or under-recovery will be accounted for in the annual true-up process.

e. Excess Flow Valve Costs

On July 31, 2019, the Commission issued an Order Accepting Compliance Filings, Requiring MERC to Submit Additional Information, Requiring Annual Compliance Reporting, and Taking Other Action in Docket No. G999/CI-18-41. In that Order, the Commission authorized recovery of EFV compliance costs through GUIC Rider filings, concluding:

[T]he cost to communicate with affected customers fit squarely within the definition of "gas utility infrastructure costs" under the GUIC statute, as the costs are related to the modification of existing infrastructure required by a federal or state agency. The Commission, as a state agency, has required the gas utilities to undertake the outreach, assessments, and installation of EFVs and natural gas service line shutoff valves, which give rise to such costs. Accordingly, the Commission will allow recovery of prudently incurred EFV costs through GUIC rider filings.⁷⁰

As a result of the Commission's decision authorizing recovery of costs related to compliance with requirements in Docket No. G999/CI-18-41, MERC proposes to include its forecasted costs for customer communications to be incurred in 2021 in this GUIC Rider request.

As explained in MERC's August 1, 2019, Compliance Filing in Docket No. G999/CI-18-41, MERC has proposed to visit approximately 20 percent of the decision-makers each year for identified customers who are eligible under the federal standards for EFVs and do not currently have an EFV or curb valve installed. Additionally, MERC proposed to utilize third-party

⁷⁰ *In the Matter of a Comm'n Investigation into Nat. Gas Utils' Practices, Tariffs, and Assignment of Cost Responsibility for Installation of Excess Flow Valves and Other Similar Gas Safety Equipment*, Docket No. G999/CI-18-41, ORDER ACCEPTING COMPLIANCE FILINGS, REQUIRING MERC TO SUBMIT ADDITIONAL INFORMATION, REQUIRING ANNUAL COMPLIANCE REPORTING, AND TAKING OTHER ACTION at 6 (July 31, 2019).

contractors to undertake the outreach and customer meetings as the Company does not have internal resources available to complete these meetings. Based on 3,696 customer visits, MERC provided the following estimate of costs to conduct face-to-face meetings:

Table 8. Cost Estimate for EFV Customer Outreach	
Face-to-Face meetings, including drive time (3,696 customers)	\$443,520
Engineering analysis to confirm eligibility for EFV (3,696 customers)	\$63,450
Total	\$506,970

Based on these cost estimates, MERC proposes to include 20 percent, or \$101,384, in O&M expense related to EFV visits in the 2021 GUIC rider revenue requirement. MERC will true-up its actual 2021 costs related to EFV customer outreach in the 2021 true-up reconciliation to be filed in 2022.

Additionally, the Commission has determined that customers requesting installation of an EFV on an eligible existing service line should only be responsible for the cost of excavation and surface restoration related to the installation, and that the remainder of costs related to installation on existing service lines, as well as the costs related to maintenance of such requested installations, should be socialized to all ratepayers.⁷¹ At this time, MERC does not have a sense of whether customer visits will result in customer requests to install EFVs or curb valves. Thus, to the extent MERC's customer outreach does result in customer requests for installation of EFVs or curb valves, MERC proposes that the costs of those installations and any associated maintenance be deferred for recovery through MERC's 2021 true-up reconciliation to be filed in 2022.

⁷¹ *In the Matter of a Comm'n Investigation into Nat. Gas Utils' Practices, Tariffs, and Assignment of Cost Responsibility for Installation of Excess Flow Valves and Other Similar Gas Safety Equipment*, Docket No. G999/CI-18-41, ORDER FINDING THAT EXCESS FLOW VALVES COMPLY WITH FEDERAL REGULATIONS AND TAKING OTHER ACTIONS at 7 (Aug. 20, 2018).

B. Costs Proposed for Rider Recovery are Incremental

Minnesota Statutes section 216B.1635 provides that only incremental costs shall be recoverable through an approved GUIC rider. In particular, gas utility projects that are in service but were not included in the gas utility's rate base in its most recent general rate case, or are planned to be in service during the period covered by the GUIC report, but in no case longer than the one-year forecast period in the report, are recoverable through a GUIC rider. Further, the GUIC Statute authorizes recovery of incremental property taxes, incremental depreciation expense, and any incremental O&M costs.⁷²

The costs identified for recovery in the 2021 GUIC Rider as outlined in this filing reflect only incremental return on and of GUIC-eligible capital projects that are not included in rate base in MERC's most recent general rate case in Docket No. G011/GR-17-563 and incremental 2021 O&M expense over and above costs that are included under existing base rates.

In MERC's 2019 GUIC Rider, the OAG took the position that the capital and O&M costs MERC proposed for recovery through the GUIC rider were not incremental and therefore were not entitled to recovery under the GUIC Statute. The Commission rejected those arguments, concluding that "[b]oth the capital costs and the O&M costs derive from new projects that are not currently reflected in the Company's base rates or the rates that will flow from the pending rate case; the costs are therefore incremental as required by the GUIC statute."⁷³

Consistent with the clear language and intent of the GUIC Statute and the Commission's determinations in Docket No. G011/M-18-281, MERC's 2021 GUIC revenue requirement proposal is structured to ensure that there is no double recovery of costs, and the Company's true-up proposal ensures all costs are trued up to actuals. None of the costs that are proposed to be included in the GUIC Rider are included in rate base or base rates.

⁷² Minn. Stat. § 216B.1635, subd. 4.

⁷³ February 5, 2019 Order at 6.

Consistent with MERC's approved 2019 GUIC Rider and pending 2020 GUIC Rider request, the Company will separately track the facilities that are replaced and removed in 2021 and will include an adjustment related to the associated depreciation expense in the true-up to be submitted in 2022 to fully account for that expense.

C. Projects Do Not Connect New Customers or Constitute a Betterment

In accordance with Minn. Stat. § 216B.1635, subd. 1(1), the GUIC projects do not serve to increase revenues by connecting infrastructure to new customers. Therefore, no adjustment has been factored into the calculation of the GUIC rate for additional customer revenues. MERC is proposing to recover only those costs that will be incurred for the replacement of natural gas facilities located in the public right-of-way required by the construction of public projects, as well as to comply with federal, state, and local regulations that set standards for the safety, reliability, and integrity of MERC's gas distribution assets. As these projects represent safety and relocation activities, and not growth projects, no new customers are connected through these projects.

Additionally, in accordance with Minn. Stat. § 216B.1635, subd. 1(3), the projects and costs MERC has included for recovery through this filing do not constitute a betterment, unless the betterment is based on requirements by a political subdivision or a federal or state agency. The Commission has concluded that an improvement that goes "beyond repair or restoration" rises to the level of a betterment.⁷⁴ The Commission has also stated that making the best engineering decision to restore pipe to its original, safe condition does not constitute a betterment.⁷⁵ A utility is not required to use substandard materials to avoid a betterment, nor is a utility required to use materials that complicate, and potentially compromise, ongoing safety inspections of the utility's transmission system.

⁷⁴ See *In the Matter of the Petition of N. States Power Co., d/b/a Xcel Energy, for Approval of a gas Utility Infrastructure Cost Rider*, Docket No. G002/M-14-336, ORDER APPROVING RIDER WITH MODIFICATIONS at 10 (Jan. 27, 2015).

⁷⁵ *Id.* at 11.

None of MERC's historic or proposed projects for right-of-way relocation or distribution integrity management work include increased pipeline capacity in response to a request by existing or new customers to increase capacity. MERC designs all of its integrity management capital replacement projects, including DIMP and right-of-way relocation projects based on flow modeling, engineering standards, best practices, and any applicable governmental mandates to safely and reliably meet existing customer demand (i.e., not to increase load). The projects proposed for inclusion in MERC's 2021 GUIC Rider, as well as the projects completed in 2019, do not serve to increase revenues by connecting new customers to MERC's distribution system.

Any change in the size of pipe installed to replace existing natural gas facilities is determined to be necessary and appropriate in accordance with standards for safety, reliability, and engineering practices, and is not designed to serve additional load. Occasionally, MERC's engineering design of integrity and right-of-way replacement projects does result in the installation of a larger pipe than was being replaced. For example, MERC may design a right-of-way project for the relocation of 2" pipe located on one side of a road and 6" pipe located on the other side of the road with a single 8" pipe in order to reduce costs while continuing to serve the same customer load. MERC's right-of-way and DIMP projects are not designed to increase load or serve new customers. Changes in the overall quantity of pipe replaced also is often a result of the design of a right-of-way or obsolete material replacement project. In some circumstances, local governments also require dual main to be installed for new and replacement installations to minimize service crossings, resulting in more installed footage for the replacement of pipe.

D. Details Regarding the Magnitude and Timing of Costs

Minnesota Statutes section 216B.1635, subdivision 4(2)(vi)-(viii) requires that a petition for approval to recover GUIC costs through a rider include information regarding (1) the magnitude and timing of any known future gas utility projects that the utility may seek to recover through the GUIC Rider; (2) the magnitude of GUIC in relation to the gas utility's base revenue

as approved by the Commission in the gas utility's most recent general rate case, exclusive of gas purchase costs and transportation charges; and (3) the magnitude of GUIC in relation to the gas utility's capital expenditures since its most recent general rate case. This information is provided in Exhibit H to this filing.

The projects included for recovery via the proposed GUIC Rider can often individually be relatively small in scope, but taken together can account for a material portion of MERC's ongoing capital investment. Capital spending in 2019 on GUIC-eligible right-of-way relocation projects and DIMP work was approximately \$11.2 million, representing approximately 14 percent of MERC's overall capital spending in 2019.

E. Last General Rate Case and Need for Rider Recovery

Minnesota Statutes section 216B.1635, subdivision 4(2)(ix) requires that a GUIC rider petition identify the amount of time since the utility last filed a general rate case and the utility's reasons for seeking recovery outside of a general rate case.

MERC filed its last general rate case on October 13, 2018, in Docket No. G011/GR-17-563, with a 2018 test year and interim rates effective January 1, 2018. The Commission approved final rates in that proceeding effective July 1, 2019.⁷⁶ As discussed in this Petition, as well as in Docket Nos. G011/M-18-281 and G011/M-19-282, since MERC's 2018 general rate case, the Company has continued to incur incremental capital and O&M costs for the replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of roads and other public works on behalf of governmental entities. Additionally, MERC has continued to implement multi-year programs under DIMP for the identification and removal of known risks on the Company's distribution system, consistent with applicable federal and state safety regulations and requirements. Recovery of such costs through the GUIC Rider under the GUIC Statute allows MERC to recover the costs associated

⁷⁶ *In the Matter of the Application of Minn. Energy Res. Corp. for Auth. to Increase Rates for Nat. Gas Serv. in Minn.*, Docket No. G011/GR-17-563, ORDER at 1 (June 13, 2019).

with these important investments outside of the framework of a time-intensive and costly rate case process, and helps to reduce rate volatility by introducing gradual rate increases to support the material, yet necessary, capital investments eligible for GUIC Rider recovery.

F. Gas Infrastructure Project Plan Report

Minnesota Statutes section 216B.1635, subdivisions 2 and 3 require that a petition for approval of a GUIC Rider include a project plan report providing pertinent information and supporting data on each proposed project including estimated project costs. Additionally, Subdivision 4(2)(iii) of the GUIC Statute requires that the utility provide a description of the estimated costs and salvage value, if any, associated with the existing infrastructure replaced or modified as a result of the project. The 2021 Project Plan Report is included as Exhibit G to this filing.

G. 2019 True-Up Reconciliation

Minnesota Statutes section 216B.1635, subdivision(4)(2)(iv) requires that a petition for approval to recover GUIC Rider costs include “a comparison of the utility’s estimated costs included in the gas infrastructure project plan and the actual costs incurred, including a description of the utility’s efforts to ensure the costs of the facilities are reasonable and prudently incurred.” Similarly, in accordance with the Commission’s February 5, 2019 Order issued in Docket No. G011/M-18-281, MERC provides support for “the reasonableness and prudence of all costs actually spent at the time of the true-up” in this filing.⁷⁷ Consistent with the requirements set forth in the GUIC Statute, MERC also provides project-specific detail demonstrating its actual 2019 costs and recoveries for GUIC-eligible projects and includes all required project reporting information in Exhibits E, I, and J to this filing. In particular, Exhibit E provides details regarding MERC’s actual 2019 relocation projects required to accommodate public projects in the right-of-way, including project descriptions, costs, and in-service dates;

⁷⁷ See February 5, 2019 Order at 6.

Exhibit I is MERC's 2019 GUIC true-up calculation and tracker balance showing actual project costs and revenues through 2019; and Exhibit J provides details regarding MERC's actual 2019 obsolete materials replacement projects including project descriptions, project costs, and in-service dates.

In addition to the statutory true-up reporting requirement, the Commission, in its February 5, 2019 Order issued in Docket No. G011/M-18-281, ordered the Company to provide project-specific information related to right-of-way relocations and an adjustment related to depreciation expense to account for expense related to replaced and removed plant in MERC's 2019 true-up report. Further, in the Company's September 17, 2019, Reply Comments filed in Docket No. G011/M-19-282, MERC agreed to provide specific information related to right-of-way relocation costs, the obsolete materials replacement project, and incremental O&M expense in the 2019 true-up report. This information is detailed below.

1. Overview of 2019 True-up

MERC has included the following expenses in the 2019 tracker and true-up adjustment:

- (1) actual capital costs and in service dates for obsolete material replacements and right-of-way relocation projects placed into service in 2019, inclusive of an offset to account for depreciation expense related to replaced facilities;
- (2) actual O&M expense for sewer cross bore survey and meter set survey projects;
and
- (3) incremental O&M expense related to right-of-way projects.

MERC has included actual costs for only those projects placed into service in 2019 in the 2019 true-up, as shown in Exhibits E, I, and J.

Exhibit I to this filing reconciles the 2019 GUIC tracker account balance and provides the actual costs related to the Company's 2019 GUIC projects, in detail. Table 9, below, shows a comparison of MERC's forecasted 2019 costs and revenue requirement included in the 2019

gas infrastructure project plan and compliance filing submitted in Docket No. G011/M-18-281 and the actual costs incurred and actual revenue requirement based on those costs.

Table 9. 2019 Estimated and Actual GUIC Project Costs		
GUIC Project	Forecast from Docket No. G011/M-18-281	Actual Costs Incurred (2019)
Right-of-Way Relocation	\$5,300,000	\$6,358,679
Obsolete Materials	\$7,000,000	\$4,882,974
Meter Set Survey	\$2,000,000	\$743,911
Sewer Cross-Bore Survey	\$1,000,000	\$999,938
Total Costs	\$15,300,000	\$12,967,547
Revenue Requirement	\$3,626,315	\$2,137,457⁷⁸

As shown in Table 9 and discussed below, MERC's 2019 costs in total were less than forecasted in Docket No. G011/M-18-281. In particular, while right-of-way relocation costs exceeded MERC's forecast by over \$1 million, MERC's spending on obsolete materials replacement projects were less than forecasted. And while MERC's 2019 spending on the sewer cross bore survey project was almost exactly as forecasted, spending on the meter set survey project was below the budgeted amount. However, as shown in Table 10 below, MERC's actual revenue recoveries through 2019 were still less than the 2019 actual revenue deficiency based on the completed scope of work.

Table 10. 2019 Over/(Under) Recovery		
2019 Surcharge Revenues Collected	2019 Revenue Deficiency	Over/(Under) Recovery
\$1,497,598	\$2,137,457	(\$639,859)

This under-recovery balance has been incorporated into MERC's 2021 GUIC rider revenue deficiency calculation, as shown in Exhibit D to this filing, to be recovered through the 2021 GUIC Rider surcharge rates.

In Docket No. G011/M-18-281, the Commission ordered MERC to calculate its 2019 GUIC Rider rate factor based on a full 12 months of sales to help smooth the increase to customer rates, noting that any resulting under-recovery of 2019 GUIC costs can be addressed

⁷⁸ Calculated based on the 13-month average 2019 rate base additions as reflected in Exhibit I, consistent with the computation of the revenue requirement in Docket No. G011/M-18-281.

in a future rider proceeding.⁷⁹ Ultimately, MERC's 2019 GUIC rider was not implemented until May 2019. As a result, MERC's per-therm GUIC Rider surcharge rate was calculated to recover the forecasted revenue deficiency over 12 months (January 2019 through December 2019) while the charge was actually in place for only 8 months (May 2019 through December 2019). Notably, the excluded months (January through April) include much of the winter heating season, reflecting the higher usage periods of the year. MERC's February 7, 2019, Compliance Filing reflected 877,001,389 therms of forecasted sales utilized to calculate the 2019 per therm surcharge rate. As reflected in Exhibit I, MERC actually collected GUIC surcharge revenue on 362,614,528 therms in 2019.

In addition to the delays in implementation of the 2019 GUIC Rider surcharge rate and the Commission's decision to apply the surcharge based on a presumed 12 months of usage, as discussed above, on June 28, 2019, MERC requested authorization from the Commission to suspend collection of its 2019 GUIC Rider surcharge from its Direct Connect customers in response to threats by those customers of potential bypass as a result of the GUIC and NGEP rider surcharges. On August 26, 2019, the Commission issued an Order Suspending GUIC Rider Surcharge for Direct Connect Customers, and Declining to Reopen NGEP Cost Rider Docket in Docket Nos. G011/M-18-182, G011/M-18-281, G011/M-19-282, and G011/M-17-563, concluding that "the Direct Connect Customers can credibly threaten to bypass MERC's system, and that the combined effects of the GUIC and NGEP rider surcharges are sufficient to potentially motivate a Direct Connect customer to bypass MERC's system." The Commission approved MERC's proposal to suspend its GUIC Rider surcharge for Direct Connect customers and required that the Company address any potential refunds or surcharges in its next GUIC rate factor adjustment and true-up filings.⁸⁰

⁷⁹ February 5, 2019 Order at 9.

⁸⁰ *In the Matter of Minn. Energy Res. Corp.'s Request for Approval of a Gas Util. Infrastructure Cost Rider*, Docket No. G011/M-18-281, ORDER SUSPENDING GUIC RIDER SURCHARGE FOR DIRECT CONNECT CUSTOMERS, AND DECLINING TO REOPEN NGEP COST RIDER DOCKET at 8 (Aug. 26, 2019).

As a result of MERC's suspension of the 2019 GUIC rider surcharge rate of \$0.00413 per therm applicable to Direct Connect customers effective August 26, 2019, MERC calculates that approximately \$346,000 of revenues that would have been collected from the Direct Connect customer class, were not recovered for the period August 26, 2019, through December 31, 2019. As discussed above, MERC has proposed to incorporate the total 2019 under-recovery in its 2021 revenue deficiency for recovery in 2021, inclusive of the foregone revenues resulting from the suspension of the GUIC Rider surcharge for the Direct Connect customers. MERC is proposing to establish surcharge rates by customer class in 2021 based on consideration of the revenue apportionment approved in Docket No. G011/GR-17-563, the risk of bypass posed by the Company's Direct Connect customers, and other relevant considerations. This rate design approach appropriately allocates GUIC costs, including the under-recovery of costs resulting from the suspension of the 2019 GUIC Rider for the Direct Connect class, across MERC's customers based on rate design considerations and the benefits derived from these GUIC investments. Addressing the unrecovered revenues associated with suspension of the GUIC Rider for Direct Connect customers through the true-up mechanism is appropriate given the 2019 GUIC costs are necessary, reasonable, and prudent costs incurred to facilitate public infrastructure projects and address known risks on the distribution system, which provide significant benefits to MERC's non-Direct Connect customers.

MERC provides details regarding each project's 2019 actual costs, performance, and achievements below.

2. Right-of-Way Relocations – Capital Projects

In its February 5, 2019 Order issued in Docket No. G011/M-18-281, the Commission stated that the amount associated with right-of-way relocations "will be trued up annually to actual costs, eliminating any possibility that forecasting will result in overrecovery."⁸¹

⁸¹ February 5, 2019 Order at 6.

Additionally, in its April 25, 2019, Order Approving Compliance Filing, issued in Docket No. G011/M-18-281, the Commission provided that “[w]hen MERC submits its annual GUIC true-up filing, it will submit the project-specific information required by Minn. Stat. § 216B.1635, subds. 3-4, at which point the Commission will review the projects and costs for reasonableness and prudence.”⁸²

Exhibit E to this filing provides project-specific information required pursuant to the GUIC Statute for MERC’s right-of-way relocation projects completed and placed into service in 2019. This exhibit includes a description for each project, the governmental entity requiring the relocation work, the date the project was completed and placed into service, the main installation costs and amounts, any main removal costs and number of services replaced, service line replacement costs, and capital costs for internal labor, vehicles, and overhead associated with each specific project.

With respect to information regarding installation and retirement quantities and size, as discussed above, in some cases, MERC’s engineering design of integrity and right-of-way replacement projects results in the installation of different size or quantity of pipe than was replaced. For example, MERC may design a right-of-way project for the relocation of 2” pipe located on one side of a road and 6” pipe located on the other side of the road with a single 8” pipe in order to reduce costs while continuing to serve the same customer load. Additionally, in some circumstances, local governments require dual main to be installed for new and replacement installations to minimize service crossings, resulting in more installed footage for the replacement of pipe relative to what is retired. Finally, after right-of-way relocation and obsolete material replacement projects are completed, MERC must manually compile and account for the installed and retired facilities for tracking purposes. As of the time of this filing, MERC was continuing to update and verify some specific project information.

⁸² *In the Matter of Minn. Energy Res. Corp.’s Request for Approval of a Gas Util. Infrastructure Cost Rider*, Docket No. G011/M-18-281, ORDER APPROVING COMPLIANCE FILING at 2 (Apr. 25, 2019).

As noted above, MERC’s actual 2019 right-of-way relocation project costs significantly outpaced the Company’s forecasted costs as approved in Docket No. G011/M-18-281 due to the scope of road and other public work projects across the state. In particular, MERC completed 78 right-of-way relocation projects during 2019 or 1 more than the Company had forecasted in Docket No. G011/M-18-281 based on the average number of right-of-way relocation projects required between 2015 and 2017. MERC’s total capital costs for 2019 right-of-way relocation projects completed in 2019 was \$6,340,724—\$1,022,769 greater than MERC had forecasted in Docket No. G011/M-18-281. Additionally, as discussed below, MERC incurred incremental O&M expense related to four right-of-way projects completed in 2019.

Table 11. Right-of-Way Projects		
	Forecast from Docket No. G011/M-18-281	2019 Actual
Costs	\$5,300,000	\$6,358,679 ⁸³
# of Projects	77	78 ⁸⁴

In its September 17, 2019, Reply Comments filed in Docket No. G011/M-19-282, MERC stated that “[w]ith respect to the Company’s 2019 . . . GUIC-eligible ROW projects, MERC intends to track the full project costs (inclusive of restoration) for purposes of calculating any true-up. However, there may be cases where restoration or removal work is not completed before the true-up is prepared for filing. In such cases, MERC proposes to defer those subsequent restoration costs for recovery either in the next year’s GUIC rider true up or in a subsequent rate case filing.”⁸⁵

Consistent with this agreement, MERC has tracked the full project costs for GUIC-eligible right-of-way projects and has incorporated these costs into the 2019 true-up, as

⁸³ Includes incremental O&M expense for right-of-way projects accounted for as O&M (non-capital projects), as discussed below.

⁸⁴ The number of projects completed in 2019 includes the four main lowering projects where costs were incurred as O&M discussed below.

⁸⁵ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost (GUIC) Rider Revenue Requirement and Revised Surcharge*, Docket No. G011/M-19-282, REPLY COMMENTS OF MINN. ENERGY RES. CORP. at 8 (Sept. 17, 2019).

demonstrated in Exhibit E. As discussed previously in Docket No. G011/M-19-282, restoration costs for construction projects are properly accounted for as a project cost. With respect to removal costs, under FERC accounting, removal costs are charged to the accumulated depreciation account rather than capitalized as part of the replacement project. MERC has accounted for 2019 removal costs in accordance with FERC accounting requirements (i.e., by recording such removal costs to accumulated depreciation), as shown in Exhibit I. To the extent MERC incurs any additional costs associated with restoration, those costs will be tracked for future true-up and recovery.

3. *Incremental O&M Expense for Right-of-Way Projects*

In the Company's September 17, 2019, Reply Comments filed in Docket No. G011/M-19-282, the Company stated that "while MERC did not forecast any incremental O&M costs for its 2020 ROW relocation projects or obsolete materials replacement projects, the Company noted that if O&M costs are incurred, the Company would address them in its true-up reconciliation filing."⁸⁶ MERC agreed "that if the Company incurs O&M expense associated with actual ROW relocation and DIMP projects... it will provide details regarding the amount of the expense, the account number to which it is charged, and an explanation of how the expense fits within the GUIC-rider."⁸⁷ MERC further agreed "that it will only request recovery of such O&M expense to the extent it is incremental (i.e., not being recovered in existing base rates)."⁸⁸

MERC made this commitment in its currently-pending 2020 GUIC Rider proceeding in conjunction with 2020 actuals; however, in the interest of consistency, the Company applies its commitment to O&M expense reporting to the 2019 actuals addressed in this filing. For 2019, MERC incurred incremental O&M expense for four right-of-way relocation projects, totaling approximately \$18,000. Table 12, below, summarizes the amount of the expense and the

⁸⁶ *Id.* at 12.

⁸⁷ *Id.* at 14-15.

⁸⁸ *Id.* at 15.

account number to which it is charged, and explains how the expense fits within the GUIC Rider. Additional details regarding each of these right-of-way relocation projects is included in Exhibit E.

Table 12. Incremental O&M for 2019 Right-of-Way Relocation Projects			
Project	Account Number	Amount of Expense	GUIC-Rider Eligibility
Floodwood (MNDOT) – lowered main for state road project	FERC Account 887.00	\$2,247	Modification of existing natural gas facilities by lowering pipe
Elgin –adjust main so as to not interfere with new storm main	FERC Account 887.00	\$3,143	Modification of existing natural gas facilities by lowering pipe
Ortonville – lowered main for city road project not originally in conflict	FERC Account 887.00	\$10,915	Modification of existing natural gas facilities by lowering pipe
Detroit Lakes – adjust main in conflict with city project	FERC Account 887.00	\$1,650	Modification of existing natural as facilities by lowering pipe

These four projects reflect unique circumstances under which a governmental entity requires relocation of natural gas facilities located within the public right-of-way to accommodate a road or other public project. However, due to the location of the natural gas facilities affected and the proposed project, MERC was able to address the relocation by lowering existing natural gas facilities rather than replacing those facilities at a new location. Because such projects do not involve the installation of any new pipe or other facilities, they are appropriately accounted for as O&M expense rather than capitalized. These main lowering projects were completed by MERC’s construction contractor, consistent with other capital right-of-way relocation work, and only third-party contractor expense is included in the true-up. Any costs associated with internal labor have been excluded. Such projects are new, incremental projects that were undertaken in 2019, and therefore not reflected in the Company’s current base rates as approved in Docket No. G011/GR-17-563.

Inclusion of these costs in the 2019 true-up is consistent with the GUIC Statute. In particular Minn. Stat. § 216B.1635, subd. 1(a)(c)(2) defines “gas utility project” as “the replacement or modification of existing natural gas facilities, including surveys, assessments,

reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure that is required by a federal or state agency.” Each of the four projects listed above required the Company to modify its existing infrastructure by lowering existing pipe to perform required state agency work. For example, Elgin Township required that the Company adjust the existing location of its pipe so as to not interfere with the installation of a new storm main. Further, Minn. Stat. § 216B.1635, subd. 4 provides that the Commission may approve recovery including “a rate of return, income taxes on the rate of return, incremental property taxes, incremental depreciation expense, and any incremental operation and maintenance costs.”

Because the incremental O&M costs for these 2019 right-of-way relocation projects fall under the GUIC statute and are, therefore, eligible for recovery in the Company’s GUIC Rider, MERC has included approximately \$18,000 for incremental O&M expense in its 2019 true-up calculation.

4. Obsolete Materials Replacement Project

In its September 17, 2019, Reply Comments, filed in Docket No. G011/M-19-282, the Company agreed to report on its Aldyl-A project accomplishment details in this annual true-up filing, including, by project site. Specifically, MERC agreed to provide information regarding (1) locational description of work completed; (2) associated work order number(s); (3) size of AA pipe mains replaced; (4) size of replacement pipe installed; (5) footage of main replaced; (6) total costs net of embedded labor, vehicles, fuel, overhead, etc.; and (7) total replacement costs.⁸⁹

Exhibit J to this filing includes the above information with respect to MERC’s 2019 obsolete materials replacement projects including replacement of Aldyl-A, X-Trube, and bare steel. This exhibit includes a description for each project, the governmental entity requiring the

⁸⁹ *Id.* at 22.

relocation work, the date the project was completed and placed into service, the main installation costs and amounts, any main removal costs and number of services replaced, service line replacement costs, and capital costs for internal labor, vehicles, and overhead associated with each specific project.

With respect to installation and retirement quantities and size, as discussed above, in some cases, MERC's engineering design of integrity and right-of-way replacement projects results in the installation of different size or quantity of pipe than was replaced. Additionally, in some circumstances, local governments require dual main to be installed for new and replacement installations to minimize service crossings, resulting in more installed footage for the replacement of pipe relative to what is retired. Finally, after right-of-way relocation and obsolete material replacement projects are completed, MERC must manually compile and account for the installed and retired facilities for tracking purposes. As of the time of this filing, MERC was continuing to update and verify some specific project information.

MERC forecasted \$7 million in 2019 for the replacement of obsolete materials under the obsolete materials replacement project. As shown in Table 13 and Exhibit J, actual capital costs for 2019 obsolete materials replacement projects were \$4,882,974. MERC's actual spending in 2019 was below the Company's forecast due to the Company's efforts to balance actual spending on right-of-way relocation projects against obsolete materials replacement projects, in an effort to stay within the overall 2019 GUIC capital budget as filed. There were a number of right-of-way projects that were planned for late fall 2019 that did not occur in 2019, resulting in an overall under-spend on 2019 capital projects under the GUIC Rider.

MERC replaced approximately 60,000 feet of Aldyl-A main in 2019 through the obsolete materials replacement project and approximately 500 service lines in connection with those Aldyl-A replacement projects.

Table 13. 2019 Obsolete Materials Replacement Projects		
	Forecast from Docket No. G011/M-18-281	2019 Actual
Costs	\$7,000,000	\$4,882,974
Footage of Aldyl-A Main Replaced	59,554 (Aldyl-A)	63,992
# of Aldyl-A Service Lines Replaced	727 (Aldyl-A)	502 (Aldyl-A)

Additionally, during 2019, as shown in Exhibit J, MERC replaced 205 X-Trube service lines in the following locations:

Table 14. 2019 X-Trube Services Replaced	
Town	# of Services Replaced
Bemidji	50
Chatfield	2
Preston	1
Caledonia	3
Eyota	1
Harmony	79
Lanesboro	1
Mabel	4
Pine Island	1
Rochester	6
Thief River Falls	56
Total	204

Finally, as shown in Exhibit J, MERC completed two bare steel replacement projects in 2019.

5. Depreciation Expense Adjustment for Replaced Facilities

In Docket No. G011/M-19-282, both the OAG and the Department recommended that MERC include in its revenue requirements calculation a forecasted offset for depreciation expense associated with the facilities to be removed or replaced as a result of right-of-way and DIMP work.⁹⁰ As explained in the Company's April 24, 2019, petition and September 17, 2019, reply comments filed in Docket No. G011/M-19-282, and consistent with the treatment approved

⁹⁰ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost (GUIC) Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, OAG COMMENTS at 4-5, DEPARTMENT COMMENTS at 11-12 (Aug. 23, 2019).

by the Commission in MERC's 2019 GUIC Rider proceeding in Docket No. G011/M-18-281, because the specific facilities to be replaced are not known with certainty, the Company proposed to account for replaced and removed plant and to include an adjustment related to the associated depreciation expense in this true-up filing.⁹¹ The adjustment related to replaced or removed assets would be limited to the depreciation expense associated with the replaced assets. The assets to be replaced are all pipes and valves and are accounted for using group depreciation accounting.⁹²

Consistent with the Company's commitment, MERC has accounted for the replaced plant and associated reduction to depreciation expense for retirements recorded in 2019. Exhibit I includes an adjustment to fully account for depreciation expense associated with facilities removed and replaced as a result of right-of-way and DIMP work. In 2019, MERC has reflected a reduction to depreciation expense of \$6,957. Of this, \$1,612 is associated with main retirements of \$758,252 and \$5,344 is associated with service retirements of \$541,154. As a result of the 2019 retirements, MERC has reflected reductions to depreciation expense of \$26,690 on an annualized basis for both 2020 and 2021.

As discussed above, MERC has not forecast 2020 or 2021 retirements and associated depreciation expense adjustments but will separately account for the retired facilities that are removed in 2020 and 2021 and will include adjustments related to the associated depreciation expense in the true-up filings to be submitted in 2021 and 2022 respectively to account for that expense.

6. *Meter Set Surveys*

Table 15 below shows the Company's 2019 actual costs for meter surveys completed in Rochester and Rosemount in 2019.

⁹¹ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost (GUIC) Rider Revenue Requirement and Revised Surcharge*, Docket No. G011/M-19-282, ADDITIONAL REPLY COMMENTS OF MINN. ENERGY RES. CORP. at 3 (Feb. 14, 2020).

⁹² *Id.* at 3-4.

Table 15. 2019 Meter Set Surveys		
	Forecast from Docket No. G011/M-18-281	2019 Actual
Costs	\$2,000,000	\$743,911
# of Surveys	70,000	81,732

While the Commission approved a 2019 forecast for MERC's meter surveys in the amount of \$2 million, due to lower-than-anticipated bids to complete the meter set survey work, costs for the scope of work completed in 2019 was lower (per meter) than originally forecast. As a result, MERC was able to complete slightly more meter surveys than forecasted at a significantly lower overall cost in 2019. In particular, MERC completed a total of 81,732 meter surveys during 2019, approximately 11,732 more surveys than the 70,000 surveys forecasted in Docket No. G011/M-18-281.

Prior to issuing the request for proposals for 2019 surveys to be completed in Rochester and Rosemount, MERC requested cost estimates from its construction contractor to complete the work in 2019. That contractor, who has significant familiarity with MERC's system, provided a per-meter cost estimate to complete the surveys in the Rosemount and Rochester areas.⁹³ On February 5, 2019, MERC issued a request for proposals ("RFP") for its 2019 meter set surveys. Based on responses received to that RFP, MERC awarded contracts to two contractors in 2019. The 2019 meter set surveys were completed by those contractors in 2019 at a per-meter cost plus additional costs for customer outreach, contractor supplies, and charges for applicable hourly rates for gas emergency response.

MERC has accounted for the 2019 actuals for meter set surveys in its true-up calculation such that only actual costs are recovered for 2019.

⁹³ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Utility Infrastructure Cost (GUIC) Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, REPLY COMMENTS OF MINN. ENERGY RES. CORP. at 13 (Sept. 17, 2019) (providing the specific per-therm cost estimate in the trade secret version of the filed reply comments).

7. Sewer Cross Bore Surveys

As explained in Docket No. G011/M-18-281, MERC's first GUIC Rider filing, MERC issued an RFP to obtain bids for a third-party contractor to complete 7,000 sewer cross bore surveys beginning in 2019. Based on responses to that RFP, MERC selected a contractor to begin these assessments in 2019, at a cost of approximately \$150 per sewer survey. For 2019, the Company requested cost recovery in the amount of \$1,000,000 based on a forecast of 7,000 surveys at approximately \$150 per survey⁹⁴, and the Commission authorized recovery in that amount through the GUIC Rider for MERC's 2019 Sewer Cross-Bore Survey work.

In 2019, MERC completed 6,621 sewer surveys. As shown in Table 16 below, the Company's 2019 actual spend for the survey work is almost identical to the amount authorized by the Commission.

Table 16. 2019 Sewer Cross Bore Surveys		
	Forecast from Docket No. G011/M-18-281	2019 Actual
Costs	\$1,000,000	\$999,938
# of Surveys	7,000	6,621

MERC has accounted for the 2019 actuals for sewer cross bore surveys in its true-up such that only actual costs incurred for meter set surveys completed in 2019 are accounted for in the true-up calculation.

H. Reasonableness and Prudence of GUIC Project Costs

Minnesota Statutes section 216B.1635, subd. 4(2)(iv) requires MERC to describe the Company's efforts to ensure the costs of the facilities are reasonable and prudently incurred. In general, and as explained throughout this Petition, MERC's multi-year distribution integrity and safety initiatives are prudent, in themselves, as these initiatives serve to ensure the safety and reliability of MERC's distribution system. Cost recovery for these projects through the

⁹⁴ In some cases, the contractor is not able to clear the sewer through the use of a lateral launch and a push camera or rodding is required to verify the sewer is clear.

Company's GUIC Rider is also prudent, as use of the rider helps to reduce rate volatility by introducing gradual rate increases, allows for prompt recovery, and is subject to frequent regulatory review. Moreover, the proactive approach to distribution system safety and integrity management allowed for under the GUIC Statute and through the GUIC Rider benefits customers and results in reasonable costs as work undertaken systematically and strategically reduces costs compared to work undertaken in a reactionary manner, and allows MERC to engage in regional planning to minimize inconvenience and costs to customers.

Specific to MERC's GUIC project costs, the Company employs a strict and comprehensive oversight and review process to ensure that costs are tracked and are reasonable in comparison to forecasted amounts. MERC has implemented significant cost-control and oversight measures to ensure the reasonableness and prudence of costs as detailed below, and is continually seeking opportunities to expand on the measures already in place.

1. Cost Control Measures

The Company's budgeting review and oversight process helps MERC achieve the lowest possible costs for projects undertaken and helps ensure projects and associated costs are appropriately evaluated and prioritized. In developing budgets for future distribution integrity and relocation work, the Company considers historical experience with right-of-way relocation projects and integrity work. All expenditures for GUIC projects must go through the Company's capital and O&M budgeting process. Company personnel familiar with these projects and project budgets closely monitor capital expenditures in relation to approved budgets to ensure that all costs incurred are reasonable and prudent.

Further, MERC has negotiated a blanket construction contract with its construction contractor for the performance of the majority of the Company's construction work. The majority of the Company's obsolete material and right-of-way relocation projects have been and continue to be performed under this blanket, working as a significant cost control measure. For many

years, MERC's blanket rates have proven to be the lowest rates, even when bid, and are generally the Company's most prudent option to complete projects.

Additionally, under MERC's blanket construction contract, the Company has been able to designate specialized crews to perform much of the obsolete material replacement work. This strategy has helped to ensure the overall reasonableness of project costs because: (1) crews are specialized in the work performed, allowing minimal interruptions and leading to more timely completions; (2) projects are performed on a more consistent basis, allowing for charges to be evenly spread throughout the year; and (3) MERC is better able to manage and plan for future work. Directly to the third point, MERC has held bi-weekly meetings with the contractor to discuss all ongoing and upcoming work in each area. By designating crews specific to the obsolete materials work, MERC could better plan for the construction season and minimize any interruptions of the crews, leading to the completion of work in a more efficient and cost-effective manner.

2. Financial and Operational Oversight

MERC also utilizes substantial and continuous financial and operational oversight to help ensure that costs incurred for GUIC projects are reasonable and prudent. With respect to financial oversight, the Company monitors major capital expenditures, including GUIC, on a monthly basis to ensure that these charges are reasonable. Capital expenditures are also presented to reviewed each month against budgets and goals. Additionally, each invoice received for GUIC project work is reviewed for accuracy and compared to the designed or estimated quantities to ensure charges are accurate.

For operational oversight, specified Company personnel oversee the DIMP and relocation projects. These personnel communicate with the Company's contractors throughout the construction periods to discuss the status of ongoing and future work, and suggest opportunities for efficiency, like the use of specialized crews for the obsolete materials replacement program, discussed above. And, as explained above, personnel closely monitor

charges associated with the projects included in the GUIC Rider for reasonableness and accuracy.

3. *Outsourcing to Third-Party Contractors*

In general, MERC uses internal resources when the scope of the work to be performed falls within the purview and competencies of the Company, and such internal resources are available. However, due to the large scope of MERC's GUIC projects and the nature of MERC's dispersed service territory, it is necessary for MERC to engage third-party contractors to perform certain aspects of work associated with GUIC projects. For example, the sewer cross bore survey project is outsourced because the Company has neither the internal expertise nor the equipment available to perform the specialized inspection aspect of the program. As discussed previously, MERC issued RFPs for the 2019 sewer cross bore and meter survey work that was performed to obtain competitive bids and pricing. As discussed in Docket No. G999/CI-18-41, MERC is utilizing third-party contractors to assist with customer outreach efforts related to EFVs because the Company does not have internal resources available to conduct these efforts. Outsourcing these particular projects helps avoid costs related to the purchase of expensive equipment and hiring additional internal resources to perform specialized work.

When third-party contractors are needed, internal and external monitors are in place to ensure that contractor performance is compliant with state and federal standards and costs associated with outsourced work are reasonable. Audits are periodically performed on all crews and copies of those audits are supplied to the Company for inspection. MERC personnel also perform random audits to verify third-party contractor compliance with the Company's procedures and standards, state and federal code, and project-specific requirements. If work is not performed to the Company's specifications, the work is corrected at no expense to MERC. Moreover, all contractor employees are trained on the Company's standards and procedures and qualified to perform requested tasks. Cost review measures are in place as each invoice

received for the work performed by third-party contractors is reviewed for accuracy and compared to the designed or estimated quantities to ensure charges are reasonable.

Moreover, contractual provisions governing contractor performance serve as measures to ensure costs are prudently incurred. The contractual agreements under which MERC's distribution integrity and right-of-way relocation work is performed shield the Company from unexpected costs resulting from the contractor operating outside project specifications. For example, if work is performed outside the project scope without prior approval, the contractor's invoice is subject to non-approval and non-payment. Other provisions addressing the warranty of work, suspension of work, and work changes also serve as control measures.

III. GUIC RIDER CALCULATION, IMPLEMENTATION, TRACKER, AND TARIFF

A. Revenue Requirement Calculation

In accordance with Minn. Stat. § 216B.1635, subd. 4, MERC's 2021 revenue requirement calculation, as attached in Exhibit D, includes the currently-authorized rate of return, incremental income taxes, and incremental depreciation expense, related to GUIC investments through 2021, inclusive of the applicable GUIC capital expenditures forecasted in 2020 and actual GUIC-eligible projects completed and placed into service in 2019, along with forecasted 2021 O&M expense.

MERC calculated the 2021 revenue requirement of \$6,007,824 based on recovery of the annual depreciation and return on the Company's forecasted 2020 and 2021 spending for capital replacement projects, depreciation and return on MERC's actual 2019 capital projects, and 2021 planned O&M project costs as discussed above. The 2019 GUIC Rider approved capital projects and pending 2020 GUIC Rider capital projects impact the 2021 revenue requirement as they are still being depreciated and still earning a return in 2021, but have yet to be incorporated into base rates via a rate case. At this time, MERC has not forecasted incremental O&M or property tax expense related to the 2021 right-of-way relocations or

obsolete materials projects. To the extent that actual expenses are identified as those projects progress in 2021, MERC will seek recovery via the GUIC reconciliation in 2022.⁹⁵

Additionally, MERC's 2021 revenue requirement calculation has been adjusted to account for the 2019 true-up adjustment of \$639,859 related to the under-recovery of actual GUIC project costs incurred in 2019. As discussed above, the revenues collected through the Company's \$0.00413 per therm surcharge rate effective May 1, 2019, through December 31, 2019, were \$1,497,598, while the Company's actual 2019 revenue requirement based on actual GUIC projects completed and placed into service was \$2,137,457, resulting in an under-recovery of the actual 2019 GUIC revenue deficiency equal to \$639,859.

The calculation of the revenue requirement was performed using (1) the applicable tax rate under the 2017 Tax Cuts and Jobs Act ("TCJA")⁹⁶; (2) the 9.7 percent return on equity authorized in MERC's 2018 rate case, Docket No. G011/GR-17-563; and (3) prorated accumulated deferred income taxes ("ADIT") in compliance with Internal Revenue Service normalization rules. In particular, the tax gross-up factor of 1.402 reflects the gross revenue conversion factor approved in MERC's 2018 test year rate case in Docket No. G011/GR-17-563. MERC proposes that the GUIC surcharge rate be based on the 2018 test year final authorized weighted average cost of capital of 6.6971 as approved in Docket No. G011/GR-17-563. As shown in Exhibit D, the 2021 revenue requirement is calculated based on the 13-month average incremental addition to rate base. MERC has also included a proration of the projected federal monthly ADIT, per the formula provided in the Treasury Reg. 1.167(1)-(h)(6)(ii).

⁹⁵ Historically, there has been little O&M expense associated with MERC's DIMP and right-of-way relocation projects and MERC has forecasted no specific O&M for its 2021 right-of-way relocation projects and obsolete materials program. In some instances, however, it has been necessary to charge an individual relocation project to O&M expense (e.g., for projects that require only a lowering, rather than replacement, of the main within the right-of-way). MERC will include these O&M charges, to the extent they occur, in the reconciliation filing for the 2021 GUIC Rider.

⁹⁶ The official title of the TCJA is "[a]n Act to provide for reconciliation pursuant to titles II and V of the concurrent resolution on the budget for fiscal year 2018." Public Law No. 115-97 (Dec. 22, 2017).

For purposes of the true-up, the proration requirement does not apply to the differences between the projected and actual ADIT. Furthermore, pursuant to some recent IRS private letter rulings (“PLRs”), the true-up cannot reverse the effects of the proration. As a result, for the true-up, the Company would propose to adjust the prorated ADIT with the 13-month average of the differences between projected and actual ADIT balances. This methodology preserves the original proration requirement embedded in the projected rates, avoids applying the proration to the projected versus actual differences, and assures the Company complies with the Consistency rule, Code 168(i)(9)(B) (applying a 13-month average to all components of rate base). The proration and the true-up adjustment will have a minimal impact on the GUIC Rider rate as proposed, ensures compliance with IRS normalization rules, and do not justify delaying implementation of MERC’s GUIC Rider. This approach is consistent with MERC’s proposal in Docket No. G011/M-19-282, which the Department did not oppose.⁹⁷

B. Proposed Rate of Return

The GUIC Statute allows a utility to recover a rate of return on rider investments and provides that the rate “shall be at the level approved by the commission in the public utility’s last general rate case, unless the commission determines that a different rate of return is in the public interest.”⁹⁸ In MERC’s 2019 GUIC Rider, the Commission set the rate of return for the GUIC rider equal to MERC’s authorized rate of return in the Company’s then-pending 2018 general rate case. The Commission expressly rejected the OAG’s proposal to set the rate of return equal to the cost of long-term debt, noting that “MERC’s GUIC investments are financed through a mix of equity and debt financing, and concluded that MERC’s overall rate of return, which reflects a mixture of equity and debt risk, is the most reasonable rate for its GUIC rider.”⁹⁹

⁹⁷ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, DEPARTMENT RESPONSE COMMENTS at 22 (Jan. 24, 2020).

⁹⁸ Minn. Stat. § 216B.1635, subd. 6.

⁹⁹ February 5, 2019 Order at 8.

Consistent with the calculations proposed in the Company's 2020 GUIC Rider in Docket No. G011/M-19-282, MERC proposes that the 2021 GUIC revenue deficiency calculation be based on the 2018 test year final authorized weighted average cost of capital of 6.6971 as approved in Docket No. G011/GR-17-563 and the associated gross revenue conversion factor of 1.402. Exhibit D summarizes those revenue requirement calculations. In Docket No. G011/M-19-282, the Department agreed with MERC's use of the Commission's recently-approved overall rate of return calculated by using the approved return on equity of 9.70 percent and capital structure, as determined in the Company's recent rate case.¹⁰⁰ The application of MERC's rate of return in Docket No. G011/GR-17-563 continues to be reasonable, appropriate, and consistent with the public interest.

C. Proposed Sales Forecast, Allocation by Customer Class, and Surcharge Rates by Customer Class

Minnesota Statutes section 216B.1635, subdivision 4(2)(v) provides that a utility's petition for approval of a rate schedule to recover GUIC costs outside of a general rate case must include "calculations to establish that the rate adjustment is consistent with the terms of the rate schedule, including the proposed rate design and an explanation of why the proposed rate design is in the public interest."

Consistent with MERC's currently-pending 2020 GUIC Rider in Docket No. G011/M-19-282, MERC proposes to establish GUIC surcharges by customer class for its 2021 GUIC Rider. In particular, MERC proposes the following surcharges for the recovery of its 2021 GUIC revenue requirements as calculated in Exhibit D, over 12 months of forecasted sales in 2021.

¹⁰⁰ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, DEPARTMENT COMMENTS at 19 (Aug. 23, 2019).

Table 17. Proposed 2021 GUIC Rider Surcharge Rates				
Customer Class	Proposed GUIC Rider Surcharge	Average Annual Cost	Total \$	% of 2021 GUIC revenue requirement
Residential ¹⁰¹	\$0.02148	\$19	\$4,154,802	62.5%
Class 1 & 2 Firm (Sales and Transport)	\$0.01143	\$57	\$1,326,777	20.0%
Class 1 & 2 Interruptible (Sales and Transport), Class 1 & 2 Grain Dryer, Class 1 Electric Generation	\$0.01143	\$459	\$235,429	3.5%
Class 3 & 4 Firm (Sales and Transport)	\$0.00397	\$762	\$19,808	0.3%
Class 3 & 4 Interruptible (Sales and Transport); Class 3 Grain Dryer	\$0.00397	\$7,471	\$747,148	11.2%
Class 5, FLEX, Class 2 Electric Generation, Transport-for-Resale	\$0.00166	\$1,195	\$163,720	2.5%
Direct Connect ¹⁰²	N/A	N/A	\$0	0%
Total			\$6,647,684	100%

As discussed below, this proposed rate design is reasonable and consistent with the public interest based on consideration of the revenue apportionment approved in Docket No. G011/GR-17-563, the potential risk of bypass posed by the Company's Direct Connect customers, and other rate design considerations. It is simplified into four general categories by customer usage classification and provides that sales and transportation customers pay the same GUIC rate based on their size, not their service type, because the type of service the customer is taking is not affected by the type of projects that are being recovered through the GUIC rider.

¹⁰¹ The Residential and firm class rates include both Farm Tap and non-Farm Tap customers.

¹⁰² Note that all other customer class surcharge rates exclude any Direct Connect customers within those rate classes.

1. *2021 Forecasted Sales by Customer Class*

As shown in Exhibit D, MERC has developed a 2021 Minnesota jurisdictional sales forecast by customer class in order to allocate the 2021 revenue deficiency and determine the per-therm rate for each applicable customer class. MERC utilized the same methodology and approach to developing this 2021 sales forecast as was used to develop the sales forecasts that were submitted in Docket No. G011/GR-17-563. Consistent with MERC's proposal in Docket No. G011/M-19-282 to exclude the Direct Connect customers from the 2020 GUIC rider surcharge and consistent with the Commission's decision in Docket No. G011/M-18-182 to exclude MERC's Michigan customer from the NGEP rider surcharge, Michigan sales should be excluded from the 2020 GUIC rider. The resulting total Minnesota jurisdictional sales for purposes of determining the 2021 GUIC rider surcharge rates is 876,307,816 therms. Adjusting for the continued suspension of the GUIC Rider Surcharge for all of MERC's Direct Connect customers, as discussed below, results in total GUIC-eligible sales for 2021 of 622,006,123 therms. Table 18 below summarizes MERC's 2021 forecasted sales by customer class.

Table 18. 2021 Sales Forecast by Customer Class	
Customer Class	2021 Forecasted Sales
Residential	193,400,435
Firm Class 1	8,610,571
Firm Class 2	107,424,745
Firm Class 3	4,988,029
Interruptible Sales Class 1 and Power Generation Class 1	272,343
Interruptible Sales Class 2	17,792,033
Interruptible Sales Class 3	19,984,032
Interruptible Sales Class 4	3,787,601
Interruptible Transport Class 2	2,525,425
Interruptible Transport Class 3	137,348,623
Interruptible Transport Class 4	27,028,214
Interruptible Transport Class 5	25,864,706
Power Generation	47,155,178
Flex and Transport for Resale	25,824,188
Direct Connect	254,301,693
Total 2021 Forecasted Sales	876,307,816
Total 2021 Forecasted Sales Excluding Direct Connect Customers	622,006,123

Differences between actual GUIC surcharge recovery based on Commission-approved surcharge rates and actual costs incurred for GUIC projects will be captured in the reconciliation process to account for any differences in costs and recoveries, including any differences attributable to sales.

2. *Customer Class Allocation and Surcharge Rates*

In calculating the recommended surcharges by customer class, MERC began with volumetric GUIC rider surcharge rates based on the non-gas revenue apportionment approved in MERC's most recent rate case. In particular, the Commission approved the following revenue apportionment in its Findings of Fact, Conclusions, and Order in Docket No. G011/GR-17-563:

Table 19. Customer Revenue Apportionment Approved in Docket No. G011/GR-17-563	
Customer Class	% of Revenue Requirement (excluding gas costs)
Residential	62.5%
Firm Sales	23.5%
Interruptible Sales	3.5%
Transport	10.5%

Based on MERC's 2021 revenue requirement as shown in Exhibit D, applying the allocation proportions as approved in Docket No. G011/GR-17-563 would result in the following charges and average annual customer rate impacts:

Table 20. 2021 Rider Surcharge Calculations under High Level Revenue Apportionment Percentages		
Customer Class	GUIC Rider Surcharge	Average Annual Cost
Residential	\$0.02148/therm	\$19.03
Firm Sales	\$0.01291/therm	\$66.45
Interruptible Sales	\$0.00556/therm	\$441.50
Transport	\$0.00134/therm	\$3,021.67

As discussed in Docket No. G011/M-19-282, MERC identified concerns with simply applying the same per therm charge across these broad classifications, noting that such approach is not consistent with the ultimate revenue apportionment and resulting distribution charge rates as approved in Docket No. G011/GR-17-563 nor with the Commission's directive for MERC to narrow the rate differential between interruptible and firm service in order to recognize the risk and value of interruptible service. Further, continued exclusion of Direct Connect customers from the 2021 GUIC Rider surcharge is necessary to prevent bypass by this uniquely-situated group of customers, who do not require any distribution infrastructure to serve them and do not receive any benefits from the GUIC-related investments. Exclusion of the

Direct Connect customers is also consistent with MERC's proposal in the currently-pending 2020 GUIC rider in Docket No. G011/M-19-282, which the Department did not oppose.¹⁰³

Applying the apportionment approved in MERC's most recent rate case and a per-therm charge of \$0.00134 to the Direct Connect class would result in that class being allocated approximately \$341,323 of the 2021 revenue requirement. Exclusion of the Direct Connect customer class results in those costs being reallocated among remaining customer classes.

On June 28, 2019, MERC requested authorization from the Commission to suspend collection of its 2019 GUIC rider surcharge from its Direct Connect customers in response to threats by those customers of potential bypass as a result of the GUIC and NGEP rider surcharges. Under MERC's Commission-approved tariffs, Direct Connect customers are defined as "(1) customers who are directly connected to the interstate pipeline with no Company-owned underground distribution facilities where (2) no non-Direct Connect customers are served off of the same point of interconnection."¹⁰⁴ MERC's proposal to exclude the Direct Connect customers from the GUIC rider surcharge was intended to address the substantial risk of bypass posed by those customers with no distribution infrastructure required to serve them.

On August 26, 2019, the Commission issued an Order Suspending GUIC Rider Surcharge for Direct Connect Customers, and Declining to Reopen NGEP Cost Rider Docket in Docket Nos. G011/M-18-182, G011/M-18-281, G011/M-19-282, and G011/M-17-563, concluding that "the Direct Connect Customers can credibly threaten to bypass MERC's system,

¹⁰³ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, DEPARTMENT COMMENTS at 18 (Aug. 23, 2019).

¹⁰⁴ MERC's 3rd Revised Tariff Sheet No. 6.50.

and that the combined effects of the GUIC and NGEp rider surcharges are sufficient to potentially motivate a Direct Connect customer to bypass MERC's system."¹⁰⁵

The Commission concluded that the class of Direct Connect customers was uniquely situated, supporting suspension of the GUIC Rider surcharge with respect to that class: "Here, the Commission is suspending a surcharge due to risk of bypass, which is especially credible when a customer has its own facilities connected to the interstate pipeline. With respect to the risk of bypass, customers who do not have such facilities are not similarly situated to those who do—and different rate treatment may therefore be warranted."¹⁰⁶ In light thereof, MERC proposes to similarly exclude the class of Direct Connect customers from the 2021 GUIC Rider surcharge.

Exclusion of Direct Connect customers from the 2021 GUIC Rider surcharge is necessary to prevent bypass by this uniquely situated group of customers, who do not require any distribution infrastructure to serve them and do not receive any benefits from the GUIC-related investments. The risk of potential bypass by this class of Direct Connect customers is particularly heightened in light of the Commission's decision not to suspend the 2019 NGEp rider surcharge for that class. In particular, the approximate cost for the Direct Connect customers to bypass MERC's system is \$0.004 per therm¹⁰⁷ while the current distribution rate charged to these customers is \$0.0048 or greater.¹⁰⁸ Thus, MERC's current distribution rate along with the 2019 NGEp rider surcharge creates a substantial risk of potential bypass by those customers. Exclusion of this class of customers from the 2021 GUIC Rider surcharge is reasonable and necessary to prevent potential bypass.

¹⁰⁵ *In the Matter of Minn. Energy Res. Corp.'s Request for Approval of a Gas Util. Infrastructure Cost Rider*, Docket No. G011/M-18-281, ORDER SUSPENDING GUIC RIDER SURCHARGE FOR DIRECT CONNECT CUSTOMERS, AND DECLINING TO REOPEN NGEp COST RIDER DOCKET at 6 (Aug. 26, 2019).

¹⁰⁶ *Id.* At 7.

¹⁰⁷ Docket Nos. G011/M-18-182, G011/M-18-281, G011/GR-17-563 and G011/M-19-282, Super Large Gas Intervenor Comments at 3, Exhibit A at ¶15 (July 11, 2019); Attachment A to MERC Reply Comments (July 18, 2019).

¹⁰⁸ Depending on whether the customer is a Class 5 customer and whether they are CIP-applicable or CIP-exempt.

As discussed in Docket No. G011/M-18-182, based on MERC's high-level calculation of the impact of bypass by Direct Connect customers on lost margin revenue, the Company would experience approximately \$1.6 million in lost revenues associated with the Direct Connect customers bypassing. The resulting potential annual rate impact for an average Residential customer would be approximately \$4.83. Such potential impacts weigh in favor of ensuring bypass by the Direct Connect customers and the associated rate impacts to remaining non-Direct Connect customers is prevented.

Additionally, establishing differential rider rates for firm, interruptible, and transportation service customers within the same class (i.e., class 1, 2, 3, 4, and 5) has the potential to create inappropriate price signals and encourage customers to move from firm to interruptible or from system-sales to transportation service based on the rider rates.

Finally, the transportation customers are disproportionately favored under this revenue apportionment allocation as approved in Docket No. G011/GR-17-563. The GUIC-related projects (which include right-of-way relocation projects and obsolete materials replacements) if reviewed in a fully-allocated class cost of service analysis, would likely not be allocated along the percentages above. The rate case apportionment percentages above include some allocations of customer-related costs, for instance, while the GUIC-related projects are likely to be more a function of throughput or demand.

Therefore, MERC incorporated the following changes to reach its proposed rate design:

- Redistributed the costs that would otherwise have been collected from the Direct Customers to all but the Residential Class. The Residential GUIC rate, therefore, remains at a proposed \$0.02148/therm, consistent with the 62.5 percent apportionment approved in Docket No. G011/GR-17-563. The Class 5 rate becomes \$0.00166/therm. No further allocations were made to these two classes in light of their price-sensitivity.
- Because establishing differential rider rates for firm, interruptible, and transportation service customers within the same class (i.e., class 1, 2, 3, 4, and 5) has the potential to create unreasonable price signals and encourage customers to move from firm to interruptible or from system-sales to transportation service, the remaining GUIC costs were allocated to the Class 1 and 2 firm, interruptible, and transportation customers at one rate per therm and to the Class 3 and 4 firm, interruptible, and transportation customers at another rate per therm. This appropriately recognizes that the proposed

GUIC-related work does not benefit a system-sales customer more than a transportation customer. In order to determine the amount to be allocated to the smallest non-Residential Classes 1 and 2, MERC used the 23.5% firm revenue apportionment factor from its last rate case. All remaining costs were allocated to the larger Classes 3 and 4.

Table 21 below summarizes the average annual rate impact by customer class of the proposed 2021 customer surcharge rates.

Table 21. Proposed GUIC Rider Surcharge Average Annual Customer Impact	
Customer Class	Average Annual Rate Impact of GUIC Rider Surcharge
Residential	\$19.03
Class 1-2 Firm (Sales and Transport)	\$56.50
Class 1-2 Interruptible (Sales and Transport), Class 1-2 Ag Grain Dryer, and Class 1 Electric Gen	\$458.93
Class 3-4 Firm (Sales and Transport)	\$761.84
Class 3-4 Interruptible (Sales and Transport) and Class 3 Ag Grain Dryer	\$7,471.48
Class 5, FLEX, Transport for Resale, and Class 2 Electric Gen	\$1,195.04
Direct Connect	\$0.00

MERC requests that its proposed rate design be adopted for the 2021 GUIC Rider surcharges rather than a flat per-therm rate or one based solely on the 2018 rate case revenue apportionment.

D. Proposed Rider Surcharge Implementation

1. Notice to Customers

MERC proposes to notify customers of the implementation of the GUIC rate via the following bill message, which will appear on bills effective the first month the GUIC surcharge takes effect:¹⁰⁹

¹⁰⁹ Notably, while the Commission ordered MERC to provide a customer bill message and bill insert explaining its 2019 GUIC Rider surcharge in its February 5, 2019 Order in Docket No. G011/M-18-281, MERC is proposing only a bill message (without bill insert) to notify customers of the updated GUIC rate. Customers have already been provided more detailed information regarding the GUIC Rider in 2019, and

Effective Jan. 1, 2021, the GUIC (Gas Utility Infrastructure Cost) Rider Surcharge has been adjusted to the following per therm rate for each of these rate classes: Residential: \$0.02148; Class 1 & 2 Firm (Sales and Transport): \$0.01143; Class 1 & 2 Interruptible (Sales and Transport), Class 1 & 2 Grain Dryer, and Class 1 Electric Generation: \$0.01143; Class 3 & 4 Firm (Sales and Transport): \$0.00397; Class 3 & 4 Interruptible (Sales and Transport) and Class 3 Grain Dryer: \$0.00397; and Class 5, Flex Class 2 Electric Generation and Transport-for-Resale: \$0.00166. The GUIC Surcharge will continue to appear as a line item on your bill labeled "Infrastructure Rider."

As discussed in Docket No. G011/M-19-282, communication of the final approved new surcharge rates through a bill message is appropriate because (1) customers have already been assessed a GUIC Rider surcharge since May 2019; (2) MERC included a full bill insert that was developed in consultation with the Commission's consumer affairs office with the initial implementation of the GUIC Rider in 2019; and (3) the only change customers will experience in 2021 is the per-therm rate they will see on their bill. Given the cost of bill inserts relative to a bill message, MERC believes its proposal is reasonable. Should the Commission order the use of bill inserts, MERC proposes to recover the actual incremental costs thereof in the 2021 GUIC true-up reconciliation.

In addition to notifying customers of the new rider rates upon implementation, MERC is in the process of undertaking customer outreach to its larger customers regarding the pendency of this proceeding before the Commission and the anticipated impacts of the proposed revised rider rates on annual bills.

2. Proposed Termination Date

MERC is proposing that the 2021 GUIC Rider surcharge rates by customer class as outlined in this filing become effective January 1, 2021. In the event the Commission does not approve implementation of MERC's 2021 GUIC rider rates on January 1, 2021, the existing GUIC rider surcharge rates (presumably those pending approval in Docket No. G011/M-19-282)

a bill message will help reduce overall customer costs and is more likely to be read because it appears directly on the bill.

would continue to be applied until the Commission authorizes implementation of a new 2021 GUIC rider rate. This is necessary in order to ensure MERC is able to recover its annual revenue requirements on the already-approved GUIC-eligible projects, particularly given delays in the implementation of MERC's 2019 and 2020 GUIC Riders and calculation of rider recovery based on 12 months of sales. Actual costs and recoveries will be tracked through the tracker mechanism to ensure any over-recoveries are refunded or that any under-recoveries are collected in a future true-up adjustment. Similarly, once implemented, MERC would continue the 2021 GUIC Rider surcharge until the Commission approves a revised surcharge rate or implementation of interim rates in a future rate case proceeding. MERC will demonstrate that its actual 2021 costs for GUIC-eligible projects were prudently incurred either through a future true-up report or through information provided in a general rate case proceeding. At that time, parties will have an opportunity to review, and the Commission will have an opportunity to determine, if costs were not prudently incurred.

At the time of this filing, MERC continues to evaluate the need to file a 2021 test year rate case. MERC would like to avoid a general rate case filing, if possible, in the interest of reducing overall ratepayer impacts and expense, and timely approval of this 2021 GUIC Rider Petition will facilitate avoidance of a general rate case filing. In the event the Company has the need to file a 2021 test year general rate case, MERC will provide an update to this Petition to notify interested parties and will make a proposal to roll all of the planned capital investments and O&M projects as presented herein into base rates. Further, MERC would propose to zero out the existing GUIC rider with respect to the unrecovered rate base value of all GUIC project plant-in-service as of a date certain.

When MERC files its next rate case, the GUIC Rider would zero out with respect to the unrecovered rate base value of all GUIC project plant-in-service as of the beginning of the test year. Unrecovered GUIC-eligible plant balance would be put into rate base for the test year. As discussed in Docket No. G011/M-19-282, the Department has not opposed MERC's proposal to

include any unrecovered GUIC revenue requirement within its rate case filing, eliminating the need for a true-up filing, but has suggested that supplemental rate case filings may be required to update for the estimated rate case amounts, depending on the timing of a rate case filing relative to when GUIC rider billing is suspended as well as to update for forecasted project spending.¹¹⁰ MERC agreed with the Department's recommendation to address any true-up recovery through supplemental testimony as necessary.¹¹¹

Finally, MERC notes that the GUIC Statute is currently set to expire June 30, 2023; thus, as this termination period nears, MERC may need to adjust its tariff language and the 2023 revenue requirements test-period term accordingly. MERC has agreed to include a proposal in a future GUIC rider filing to address the termination of the GUIC Statute, whether that occurs June 30, 2023 or is extended.

IV. CONCLUSION

Based on the foregoing information, MERC respectfully requests that the Commission authorize MERC to recover its forecasted 2021 eligible gas utility infrastructure project costs, adjusted to account for the 2019 GUIC rider true-up, through customer surcharges by customer class effective January 1, 2021, as outlined in this Petition.

¹¹⁰ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, DEPARTMENT COMMENTS at 22 (Aug. 23, 2019).

¹¹¹ *In the Matter of the Petition of Minn. Energy Res. Corp. for Approval of 2020 Gas Util. Infrastructure Cost Rider Revenue Requirement and Revised Surcharge Factor*, Docket No. G011/M-19-282, MERC REPLY COMMENTS at 25-26 (Sept. 17, 2019).

DATED: April 1, 2020

Respectfully submitted,

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Exhibit A

Minn. Stat. § 216B.1635
Recovery of Gas Utility Infrastructure Costs

216B.1635 RECOVERY OF GAS UTILITY INFRASTRUCTURE COSTS.

Subdivision 1. **Definitions.** (a) "Gas utility" means a public utility as defined in section 216B.02, subdivision 4, that furnishes natural gas service to retail customers.

(b) "Gas utility infrastructure costs" or "GUIC" means costs incurred in gas utility projects that:

(1) do not serve to increase revenues by directly connecting the infrastructure replacement to new customers;

(2) are in service but were not included in the gas utility's rate base in its most recent general rate case, or are planned to be in service during the period covered by the report submitted under subdivision 2, but in no case longer than the one-year forecast period in the report; and

(3) do not constitute a betterment, unless the betterment is based on requirements by a political subdivision or a federal or state agency, as evidenced by specific documentation, an order, or other similar requirement from the government entity requiring the replacement or modification of infrastructure.

(c) "Gas utility projects" means:

(1) replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision; and

(2) replacement or modification of existing natural gas facilities, including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure that is required by a federal or state agency.

Subd. 2. **Gas infrastructure filing.** A public utility submitting a petition to recover gas infrastructure costs under this section must submit to the commission, the department, and interested parties a gas infrastructure project plan report and a petition for rate recovery of only incremental costs associated with projects under subdivision 1, paragraph (c). The report and petition must be made at least 150 days in advance of implementation of the rate schedule, provided that the rate schedule will not be implemented until the petition is approved by the commission pursuant to subdivision 5. The report must be for a forecast period of one year.

Subd. 3. **Gas infrastructure project plan report.** The gas infrastructure project plan report required to be filed under subdivision 2 shall include all pertinent information and supporting data on each proposed project including, but not limited to, project description and scope, estimated project costs, and project in-service date.

Subd. 4. **Cost recovery petition for utility's facilities.** Notwithstanding any other provision of this chapter, the commission may approve a rate schedule for the automatic annual adjustment of charges for gas utility infrastructure costs net of revenues under this section, including a rate of return, income taxes on the rate of return, incremental property taxes, incremental depreciation expense, and any incremental operation and maintenance costs. A gas utility's petition for approval of a rate schedule to recover gas utility infrastructure costs outside of a general rate case under section 216B.16 is subject to the following:

(1) a gas utility may submit a filing under this section no more than once per year; and

(2) a gas utility must file sufficient information to satisfy the commission regarding the proposed GUIC. The information includes, but is not limited to:

- (i) the information required to be included in the gas infrastructure project plan report under subdivision 3;
- (ii) the government entity ordering or requiring the gas utility project and the purpose for which the project is undertaken;
- (iii) a description of the estimated costs and salvage value, if any, associated with the existing infrastructure replaced or modified as a result of the project;
- (iv) a comparison of the utility's estimated costs included in the gas infrastructure project plan and the actual costs incurred, including a description of the utility's efforts to ensure the costs of the facilities are reasonable and prudently incurred;
- (v) calculations to establish that the rate adjustment is consistent with the terms of the rate schedule, including the proposed rate design and an explanation of why the proposed rate design is in the public interest;
- (vi) the magnitude and timing of any known future gas utility projects that the utility may seek to recover under this section;
- (vii) the magnitude of GUIC in relation to the gas utility's base revenue as approved by the commission in the gas utility's most recent general rate case, exclusive of gas purchase costs and transportation charges;
- (viii) the magnitude of GUIC in relation to the gas utility's capital expenditures since its most recent general rate case; and
- (ix) the amount of time since the utility last filed a general rate case and the utility's reasons for seeking recovery outside of a general rate case.

Subd. 5. **Commission action.** Upon receiving a gas utility report and petition for cost recovery under subdivision 2 and assessment and verification under subdivision 4, the commission may approve the annual GUIC rate adjustments provided that, after notice and comment, the costs included for recovery through the rate schedule are prudently incurred and achieve gas facility improvements at the lowest reasonable and prudent cost to ratepayers.

Subd. 6. **Rate of return.** The return on investment for the rate adjustment shall be at the level approved by the commission in the public utility's last general rate case, unless the commission determines that a different rate of return is in the public interest.

Subd. 7. **Commission authority; rules.** The commission may issue orders and adopt rules necessary to implement and administer this section.

History: 2005 c 97 art 10 s 1,3; 2013 c 85 art 7 s 2,9

NOTE: This section expires June 30, 2023. Laws 2005, chapter 97, article 10, section 3, as amended by Laws 2013, chapter 85, article 7, section 9.

Exhibit B

Matrix of Information Included within the Petition
as Required by Minn. Stat. § 216B.1635
and Commission Orders

Matrix of Information Required by Minn. Stat. § 216B.1635, Commission Orders, and MERC Agreements

Citation and Petition Requirement	Location in Filing
Minnesota Statutes section 216B.1635	
<p>Subd. 1(b). “Gas utility infrastructure costs” or “GUIC” means costs incurred in gas utility projects that:</p> <p>(1) do not serve to increase revenues by directly connecting the infrastructure replacement to new customers;</p> <p>(2) are in service but were not included in the gas utility’s rate base in its most recent general rate case, or are planned to be in service during the period covered by the report submitted under subdivision 2, but in no case longer than the one-year forecast period in the report; and</p> <p>(3) do not constitute a betterment, unless the betterment is based on requirements by a political subdivision or a federal or state agency, as evidenced by specific documentation, an order, or other similar requirement from the government entity requiring the replacement or modification of infrastructure.</p>	<p>The projects proposed for inclusion in MERC’s 2021 GUIC Rider (1) do not serve to increase revenues by directly connecting to new customers; (2) are not included in current or proposed rates and are planned to be in service by the end of the plan period, 2021; and (3) do not constitute a betterment.</p> <p>Petition at Section II.B and III.C</p> <p>Exhibit G: MERC’s 2021 Gas Infrastructure Project Plan Report</p>
<p>Subd. 1(c). “Gas utility projects” means:</p> <p>(1) replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision; and</p> <p>(2) replacement or modification of existing natural gas facilities, including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure that is required by a federal or state agency.</p>	<p>Petition at Section II.A</p> <p>Exhibit E: Details regarding MERC’s actual 2019 relocation projects required to accommodate public projects in the right-of-way</p> <p>Exhibit F: MERC’s currently known 2020 and 2021 road relocation projects (to date)</p> <p>Exhibit G: MERC’s 2021 Gas Infrastructure Project Plan Report</p>
<p>Subd. 2. Gas infrastructure filing. A public utility submitting a petition to recover gas infrastructure costs under this section must submit to the commission, the department, and interested parties a gas infrastructure project plan report and a</p>	<p>Petition</p>

Matrix of Information Required by Minn. Stat. § 216B.1635, Commission Orders, and MERC Agreements

Citation and Petition Requirement	Location in Filing
petition for rate recovery of only incremental costs associated with projects under subdivision 1, paragraph (c). The report and petition must be made at least 150 days in advance of implementation of the rate schedule, provided that the rate schedule will not be implemented until the petition is approved by the commission pursuant to subdivision 5. The report must be for a forecast period of one year.	Exhibit G: MERC's 2021 Gas Infrastructure Project Plan Report
Subd. 3. Gas infrastructure project plan report. The gas infrastructure project plan report required to be filed under subdivision 2 shall include all pertinent information and supporting data on each proposed project including, but not limited to, project description and scope, estimated project costs, and project in-service date.	<p>Petition at Section II.A & II.F</p> <p>Exhibit E: Details regarding MERC's actual 2019 relocation projects required to accommodate public projects in the right-of-way</p> <p>Exhibit F: MERC's currently known 2020 and 2021 road relocation projects (to date)</p> <p>Exhibit G: MERC's 2021 Gas Infrastructure Project Plan Report</p> <p>Exhibit K: Maps of Aldyl-A Main Replacement (2021)</p> <p>Exhibit L: Project Schedule for Obsolete Material Replacements (2021)</p>
Subd. 4. Cost recovery petition for utility's facilities. Notwithstanding any other provision of this chapter, the commission may approve a rate schedule for the automatic annual adjustment of charges for gas utility infrastructure costs net of revenues under this section, including a rate of return, income taxes on the rate of return, incremental property taxes, incremental depreciation expense, and any incremental operation and maintenance costs. A gas utility's petition for approval of a rate schedule to recover gas utility infrastructure costs outside of a general rate case under section 216B.16 is subject to the following:	<p>Petition at Section III</p> <p>Exhibit D: Calculations of the proposed 2021 GUIC-eligible revenue requirement and proposed GUIC Rider surcharge rates by customer class proposed to be effective January 1, 2021</p>

Matrix of Information Required by Minn. Stat. § 216B.1635, Commission Orders, and MERC Agreements

Citation and Petition Requirement	Location in Filing
(1) a gas utility may submit a filing under this section no more than once per year; and	This request for GUIC Rider recovery is MERC's only request for 2021. MERC's previously-approved GUIC Rider in Docket No. G011/M-18-182 was for calendar year 2019 costs and projects. MERC's most-recently-filed GUIC Rider in Docket No. G011/M-19-282 was for calendar year 2020 costs and projects. Petition at Section II.
(2) a gas utility must file sufficient information to satisfy the commission regarding the proposed GUIC. The information includes, but is not limited to:	
(i) the information required to be included in the gas infrastructure project plan report under subdivision 3;	Petition at Section II and II.F. Exhibit E: Details regarding MERC's actual 2019 relocation projects required to accommodate public projects in the right-of-way Exhibit F: MERC's currently known 2020 and 2021 road relocation projects (to date) Exhibit G: MERC's 2021 Gas Infrastructure Project Plan Report Exhibit K: Maps of Aldyl-A Main Replacement (2021) Exhibit L: Project Schedule for Obsolete Material Replacements (2021)
(ii) the government entity ordering or requiring the gas utility project and the purpose for which the project is undertaken;	Petition at Section II

Matrix of Information Required by Minn. Stat. § 216B.1635, Commission Orders, and MERC Agreements

Citation and Petition Requirement	Location in Filing
	<p>Exhibit E: Details regarding MERC's actual 2019 relocation projects required to accommodate public projects in the right-of-way</p> <p>Exhibit F: MERC's currently known 2020 and 2021 road relocation projects (to date)</p> <p>Exhibit G: MERC's 2021 Gas Infrastructure Project Plan Report</p> <p>Exhibit K: Maps of Aldyl-A Main Replacement (2021)</p> <p>Exhibit L: Project Schedule for Obsolete Material Replacements (2021)</p>
(iii) a description of the estimated costs and salvage value, if any, associated with the existing infrastructure replaced or modified as a result of the project;	<p>Petition at Section II.A, II.F, and Section III</p> <p>Exhibit D: Calculations of the proposed 2021 GUIC-eligible revenue requirement and proposed GUIC Rider surcharge rates by customer class proposed to be effective January 1, 2021</p> <p>Exhibit E: Details regarding MERC's actual 2019 relocation projects required to accommodate public projects in the right-of-way</p> <p>Exhibit F: MERC's currently known 2020 and 2021 road relocation projects (to date)</p> <p>Exhibit G: MERC's 2021 Gas Infrastructure Project Plan Report</p>

Matrix of Information Required by Minn. Stat. § 216B.1635, Commission Orders, and MERC Agreements

Citation and Petition Requirement	Location in Filing
(iv) a comparison of the utility's estimated costs included in the gas infrastructure project plan and the actual costs incurred, including a description of the utility's efforts to ensure the costs of the facilities are reasonable and prudently incurred;	<p>Petition at Section II.G</p> <p>Exhibit E: Details regarding MERC's actual 2019 relocation projects required to accommodate public projects in the right-of-way</p> <p>Exhibit I: MERC's 2019 GUIC true-up calculation and tracker balance</p> <p>Exhibit J: Details regarding MERC's actual 2019 obsolete materials replacement projects</p>
(v) calculations to establish that the rate adjustment is consistent with the terms of the rate schedule, including the proposed rate design and an explanation of why the proposed rate design is in the public interest;	<p>Petition at Section III.C</p> <p>Exhibit D: Calculations of the proposed 2021 GUIC-eligible revenue requirement and proposed GUIC Rider surcharge rates by customer class proposed to be effective January 1, 2021</p>
(vi) the magnitude and timing of any known future gas utility projects that the utility may seek to recover under this section;	<p>Petition at Section II.D</p> <p>Exhibit H: Discussion of the magnitude of known future natural gas projects and the proposed GUIC recovery as required by Minn. Stat. § 216B.1635, subd. 4(vi), (vii), and (viii)</p>
(vii) the magnitude of GUIC in relation to the gas utility's base revenue as approved by the commission in the gas utility's most recent general rate case, exclusive of gas purchase costs and transportation charges;	<p>Petition at Section II.D</p> <p>Exhibit H: Discussion of the magnitude of known future natural gas projects and the proposed GUIC recovery as required by</p>

Matrix of Information Required by Minn. Stat. § 216B.1635, Commission Orders, and MERC Agreements

Citation and Petition Requirement	Location in Filing
	Minn. Stat. § 216B.1635, subd. 4(vi), (vii), and (viii)
(viii) the magnitude of GUIC in relation to the gas utility's capital expenditures since its most recent general rate case; and	Petition at Section II.D Exhibit H: Discussion of the magnitude of known future natural gas projects and the proposed GUIC recovery as required by Minn. Stat. § 216B.1635, subd. 4(vi), (vii), and (viii)
(ix) the amount of time since the utility last filed a general rate case and the utility's reasons for seeking recovery outside of a general rate case.	Petition at Section II.E
Subd. 6. Rate of return. The return on investment for the rate adjustment shall be at the level approved by the commission in the public utility's last general rate case, unless the commission determines that a different rate of return is in the public interest.	Petition at Section III.B Exhibit D: Calculations of the proposed 2021 GUIC-eligible revenue requirement and proposed GUIC Rider surcharge rates by customer class proposed to be effective January 1, 2021
<p>In the Matter of Minnesota Energy Resources Corporation's Request for Approval of a Gas Utility Infrastructure Cost Rider</p> <p>ORDER SUSPENDING GUIC RIDER SURCHARGE FOR DIRECT CONNECT CUSTOMERS, AND DECLINING TO REOPEN NGEP COST RIDER DOCKET¹</p> <p>Docket No. G011/M-18-281 August 26, 2019</p>	

¹ The August 26, 2019, Order was also issued in Docket Nos. G011/M-17-563, G011/M-18-182, and G011/M-19-282.

Matrix of Information Required by Minn. Stat. § 216B.1635, Commission Orders, and MERC Agreements

Citation and Petition Requirement	Location in Filing
3. MERC shall address any potential refunds or surcharges in its next GUIC rate-factor adjustment and true-up filings.	Petition at Section II.G
<p>In the Matter of a Commission Investigation into Natural Gas Utilities' Practices, Tariffs, and Assignment of Cost Responsibility for Installation of Excess Flow Valves and Other Similar Gas Safety Equipment</p> <p>ORDER ACCEPTING COMPLIANCE FILINGS, REQUIRING MERC TO SUBMIT ADDITIONAL INFORMATION, REQUIRING ANNUAL COMPLIANCE REPORTING, AND TAKING OTHER ACTION</p> <p>Docket No. G999/CI-18-41 July 31, 2019</p>	
5. The Commission will allow recovery of EFV costs through GUIC rider filings.	Petition at Section II.A.2 and II.G
<p>In the Matter of the Petition of Minnesota Energy Resources Corporation for Approval of 2020 Gas Utility Infrastructure Cost (GUIC) Rider Revenue Requirement and Revised Surcharge Factor</p> <p>ADDITIONAL REPLY COMMENTS OF MINNESOTA ENERGY RESOURCES CORPORATION</p> <p>Docket No. G011/M-19-282² February 14, 2020</p>	
If the Company incurs O&M expense associated with actual ROW relocation or DIMP projects in 2020, it will provide details regarding the amount of the expense, the account number to which it is charged, and an explanation of how the expense fits within the GUIC rider. MERC also agrees that it will not request recovery of such	<p>Petition at Section II.G</p> <p>Exhibit E: Details regarding MERC's actual 2019 relocation projects required to</p>

² Note that at the time this 2021 GUIC Rider filing, the Company's 2020 GUIC Rider filing was still pending in Docket No. G011/M-19-282. The below-listed filing requirements are not, therefore, Commission ordered; rather, these are filing requirements agreed to by MERC in the docket thus far.

Matrix of Information Required by Minn. Stat. § 216B.1635, Commission Orders, and MERC Agreements

Citation and Petition Requirement	Location in Filing
O&M expense to the extent it is incremental (i.e., not being recovered in existing base rates). ³	accommodate public projects in the right-of-way
MERC agreed to report on Aldyl-A project accomplishment details in the Company's annual true-up filing, including, by project site: (1) locational description of work completed, (2) associated work order number(s), (3) size of Aldyl-A pipe mains replaced, (4) size of replacement pipe installed, (5) footage of main replaced, (6) total costs net of embedded labor, vehicles, fuel, overhead, etc., and (7) total replacement costs.	Petition at Section II.G Exhibit J: Details regarding MERC's actual 2019 obsolete materials replacement projects
MERC agreed to reflect the corrected revenue requirements model in any compliance and future GUIC filing schedules.	Exhibit D: Calculations of the proposed 2021 GUIC-eligible revenue requirement and proposed GUIC Rider surcharge rates by customer class proposed to be effective January 1, 2021
MERC agreed to include in the relevant future GUIC rider filing a proposal to address the termination of the GUIC statute.	The Company does not address the termination of the GUIC statute here, as the GUIC Statute is currently set to expire June 30, 2023. Petition at Section III.D

³ MERC made this commitment in its currently-pending 2020 GUIC Rider proceeding (Docket No. G011/M-19-282) in conjunction with 2020 actuals; however, in the interest of consistency, the Company applies its commitment to O&M expense reporting to the 2019 actuals addressed in this filing.

Exhibit C

Updated Tariff Sheets to Reflect the 2021 GUIC
Rate Factors Proposed to be Effective January
1, 2021 (MERC Tariff Sheet Nos. 7.20-7.21a)

Clean Tariff Sheets

GAS UTILITY INFRASTRUCTURE COST RIDER

1st Revised Sheet No. 7.20

1. APPLICABILITY

Applicable to bills for natural gas service provided under all utility rate schedules, as approved by the Minnesota Public Utilities Commission (MPUC). Effective August 26, 2019, the GUIC Rider rate is suspended for Direct Connect Customers, who are subject to service under Tariff Sheet No. 6.50.

2. RIDER

The Gas Utility Infrastructure Cost (GUIC) rider statute (Minn. Stat. § 216B.1635) permits a public utility to petition the MPUC outside of a general rate case for a rider to recover the revenue deficiency from projects not already included in utility rates that have been incurred for:

- A. replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision; and
- B. replacement or modification of existing natural gas facilities, including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure that is required by a federal or state agency.

3. RATE

The GUIC Rider rate for any customer class will be the MPUC-approved rate for that customer class. Such GUIC Rider rates may be volumetric, a flat fee, or some other form of approved recovery.

4. TERM

The GUIC Rider rate will be established for each customer group and be based on the annual revenue requirements for costs associated with forecasted natural gas infrastructure projects eligible for recovery under Minnesota Statute Sections 216B.1635 that are determined by the Commission to be eligible for recovery under this GUIC Rider.

The Company will file a GUIC Annual Report each April 1, which will include a reconciliation of the previous full calendar year's GUIC Tracker Account balance, if applicable, as well as support for any request to change the GUIC Rider Rate for a subsequent calendar year. (For example, the year-end 2019 GUIC Rider Tracker Account balance will be applied as a true-up adjustment to the 2021 GUIC Rider rate.) The GUIC Rider rate will be adjusted to reflect new Recoverable GUIC Costs as well as the amortization of the prior year's GUIC Tracker balance as approved by the Commission.

GAS UTILITY INFRASTRUCTURE COST RIDER
(Continued)

2nd Revised Sheet No. 7.21

5. DEFINITIONS

- A. GUIC Tracker: An accounting process used to accumulate any difference between the actual revenue requirement impact of Recoverable GUIC Costs and the actual revenues recovered through the GUIC Rider.
- B. GUIC Rider Reconciliation: The GUIC Factor for each customer group may be adjusted annually with approval of the MPUC. The Company will file a GUIC Annual Report on or before April 1, which will include a reconciliation of the previous full calendar year's GUIC Tracker Account balance, if applicable, as well as support for any request to change the GUIC Factor for the subsequent calendar year.
- C. Qualifying Projects: Projects eligible for recovery via the GUIC Rider under Minn. Stat. § 216B.1635 include:
- i. replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision; and
 - ii. replacement or modification of existing natural gas facilities, including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure that is required by a federal or state agency.
- D. Recoverable GUIC Costs: The revenue requirement related to Qualifying Projects not already reflected in rates. The annual revenue requirement for costs associated with the Qualifying Projects includes the currently authorized rate of return on capital investment, incremental income taxes, incremental property taxes, incremental depreciation expense, and any incremental operation and maintenance costs relative to the Qualifying Project(s). A standard model will be used to calculate the revenue requirement related to Qualifying Project(s) for the filing period.

6. GUIC RIDER RATES

A. Currently Authorized GUIC Rider Rate

A separate GUIC Rate may be calculated for each customer class or the same rate may be applied across all or a portion of customer classes, as approved by the MPUC. The GUIC rate shall be calculated to recover the Recoverable GUIC Costs over the period approved by the MPUC. GUIC surcharge rates effective January 1, 2021, are as follows:

Rate Class	Rate/Therm
Residential	\$0.02148
Class 1-2 Firm (Sales and Transport)	\$0.01143
Class 1-2 Interruptible (Sales and Transport), Class 1-2 Ag Grain Dryer, and Class 1 Electric Generation	\$0.01143
Class 3-4 Firm (Sales and Transport)	\$0.00397
Class 3-4 Interruptible (Sales and Transport) and Class 3 Ag Grain Dryer	\$0.00397
Class 5, FLEX, Transport for Resale, and Class 2 Electric Generation	\$0.00166
Direct Connect	\$0.00000

GAS UTILITY INFRASTRUCTURE COST RIDER
(Continued)

Original Sheet No. 7.21a

B. Adjustment to GUIC Tracker Account with Changes in Base Rates

Whenever the Company implements changes in base rates as the result of a final Commission order in a general rate case, the Company shall simultaneously adjust the GUIC Tracker Account to remove all costs that have been included in the approved base rates.

Redline Tariff Sheets

GAS UTILITY INFRASTRUCTURE COST RIDER

1st Revised Sheet No. 7.20

1. APPLICABILITY

Applicable to bills for natural gas service provided under all utility rate schedules, as approved by the Minnesota Public Utilities Commission (MPUC). Effective August 26, 2019, the GUIC Rider rate is suspended for Direct Connect Customers, who are subject to service under Tariff Sheet No. 6.50.

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- A. replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision; and
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The Company will file a GUIC Annual Report each April 1, which will include a reconciliation of the previous full calendar year's GUIC Tracker Account balance, if applicable, as well as support for any request to change the GUIC Rider Rate for a subsequent calendar year. (For example, the year-end 2019 GUIC Rider Tracker Account balance will be applied as a true-up adjustment to the 2021 GUIC Rider rate.) The GUIC Rider rate will be adjusted to reflect new Recoverable GUIC Costs as well as the amortization of the prior year's GUIC Tracker balance as approved by the Commission.

GAS UTILITY INFRASTRUCTURE COST RIDER
(Continued)

~~1st~~^{2nd} Revised Sheet No. 7.21

5. DEFINITIONS

- A. GUIC Tracker: An accounting process used to accumulate any difference between the actual revenue requirement impact of Recoverable GUIC Costs and the actual revenues recovered through the GUIC Rider.
- B. GUIC Rider Reconciliation: The GUIC Factor for each customer group may be adjusted annually with approval of the MPUC. The Company will file a GUIC Annual Report on or before April 1, which will include a reconciliation of the previous full calendar year's GUIC Tracker Account balance, if applicable, as well as support for any request to change the GUIC Factor for the subsequent calendar year.
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- i. replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by or on behalf of the United States, the state of Minnesota, or a political subdivision; and
 - ii. replacement or modification of existing natural gas facilities, including surveys, assessments, reassessment, and other work necessary to determine the need for replacement or modification of existing infrastructure that is required by a federal or state agency.
- D. Recoverable GUIC Costs: The revenue requirement related to Qualifying Projects not already reflected in rates. The annual revenue requirement for costs associated with the Qualifying Projects includes the currently authorized rate of return on capital investment, incremental income taxes, incremental property taxes, incremental depreciation expense, and any incremental operation and maintenance costs relative to the Qualifying Project(s). A standard model will be used to calculate the revenue requirement related to Qualifying Project(s) for the filing period.

6. GUIC RIDER RATES

A. Currently Authorized GUIC Rider Rate

A separate GUIC Rate may be calculated for each customer class or the same rate may be applied across all or a portion of customer classes, as approved by the MPUC. The GUIC rate shall be calculated to recover the Recoverable GUIC Costs over the period approved by the MPUC.

~~The GUIC Rate~~GUIC surcharge rates effective January 1, 2021, are as follows:

<u>Rate Class</u>	<u>Rate/Therm</u>
<u>Residential</u>	<u>\$0.02148</u>
<u>Class 1-2 Firm (Sales and Transport)</u>	<u>\$0.01143</u>
<u>Class 1-2 Interruptible (Sales and Transport), Class 1-2 Ag Grain Dryer, and Class 1 Electric Generation</u>	<u>\$0.01143</u>
<u>Class 3-4 Firm (Sales and Transport)</u>	<u>\$0.00397</u>
<u>Class 3-4 Interruptible (Sales and Transport) and Class 3 Ag Grain Dryer</u>	<u>\$0.00397</u>
<u>Class 5, FLEX, Transport for Resale, and Class 2 Electric Generation</u>	<u>\$0.00166</u>
<u>Direct Connect</u>	<u>\$0.00000</u>

Date Filed: April 1, 2020

Effective Date: Upon Commission Approval

Docket No.: G011/M-20-

Submitted By: Theodore Eidukas

Vice President –Regulatory Affairs

GAS UTILITY INFRASTRUCTURE COST RIDER
(Continued)

~~1st~~2nd Revised Sheet No. 7.21

~~May 1, 2019 shall be \$0.00413 per therm for all customer classes. Effective August 26, 2019, the GUIC Rider rate is suspended for Direct Connect Customers.~~

~~B. Adjustment to GUIC Tracker Account with Changes in Base Rates~~

~~Whenever the Company implements changes in base rates as the result of a final Commission order in a general rate case, the Company shall simultaneously adjust the GUIC Tracker Account to remove all costs that have been included in the approved base rates.~~

GAS UTILITY INFRASTRUCTURE COST RIDER
(Continued)

Original Sheet No. 7.21a

B. Adjustment to GUIC Tracker Account with Changes in Base Rates

Whenever the Company implements changes in base rates as the result of a final Commission order in a general rate case, the Company shall simultaneously adjust the GUIC Tracker Account to remove all costs that have been included in the approved base rates.

Exhibit D

Calculations of the Proposed 2021 GUIC
Revenue Requirement and Proposed GUIC
Rider Surcharge Rates by Customer Class
Proposed to be Effective January 1, 2021

Revenue Requirement on GUIC projects

Line	Description	Reference	Actual 2019	Forecasted 2020	Forecasted 2021
1	Expense	O&M Expense	1,743,848	3,000,000	3,000,000
2	Expense	Depreciation Expense	57,381	257,560	517,294
3	Expense	EFV O&M Expense	-	101,394	101,394
4	Rate Base	13-Month Average Net Plant Value	3,580,946	14,422,975	26,511,308
5	Accumulated Deferred Income Tax Proration Adjustment		-	9,506	13,784
6	Adjusted Rate Base	13-Month Average Net Plant Value	3,580,946	14,432,481	26,525,092
7	Rate of Return	Commission Authorized 2018 Rate Case	6.6971%	6.6971%	6.6971%
8	Earnings on Rate Base	Line 6 x Line 7	239,820	966,558	1,776,412
9	Gross Revenue Conversion Factor	2018 Rate Case Adjusted for Tax Reform	1.402	1.402	1.402
10	Return on Rate Base	Line 8 x Line 9	336,227	1,355,114	2,490,530
11					
12	Total Revenue Requirement	Line 1 + Line 2 + Line 10	2,137,456	4,612,674	6,007,824

13

14 2019 GUIC True-up: Over/(Under) Recovery (639,859)

15

16 Total 2021 Revenue Deficiency, including 2019 True-up 6,647,683

17

18 **Total Therms** **876,307,816**

		Rate/Therm	\$/Customer
21	Residential	\$ 0.02148	\$ 19
22	Class 1-2 Firm (Sales and Transport)	\$ 0.01143	\$ 57
23	Class 1-2 Interruptible (Sales and Transport), Class 1-2 Ag Grain Dryer, and Class 1 Electric Gen	\$ 0.01143	\$ 459
24	Class 3-4 Firm (Sales and Transport)	\$ 0.00397	\$ 762
25	Class 3-4 Interruptible (Sales and Transport) and Class 3 Ag Grain Dryer	\$ 0.00397	\$ 7,471
26	Class 5, FLEX, Transport for Resale, and Class 2 Electric Gen	\$ 0.00166	\$ 1,195
27	Direct Connect	\$ -	\$ -

Assumptions

- 1 Forecasted GUIC related right of way and replacement service construction expenditures go into service as spent

2021 GUIC RIDER RATE DESIGN

2021 GUIC Revenue Requirement

\$ 6,647,683

			Rate Case Apportionment 1				Option 1				Option 2			
	Therm Sales	Customer Count	Revenue Apportionment	Initial Apportionment	Rate/Therm	\$/Customer	Redistribute	Apportionment	\$/Customer	Redistribute	Apportionment	Rate/Therm	\$/Customer	
Residential	193,400,435	218,327	62.5%	\$ 4,154,802	\$ 0.02148	\$ 19.03	\$ 227,374	\$ 4,382,176	\$ 20.07	\$ 2,230,771	\$ 0.01153	\$ 10.22		
Firm Sales	121,023,345	23,508	23.5%	\$ 1,562,205	\$ 0.01291	\$ 66.45	\$ 85,493	\$ 1,647,698	\$ 70.09	\$ 1,395,940	\$ 0.01153	\$ 59.38		
Interruptible Sales	41,836,009	527	3.5%	\$ 232,669	\$ 0.00556	\$ 441.50	\$ 12,733	\$ 245,402	\$ 465.66	\$ 482,556	\$ 0.01153	\$ 915.67		
Transport	214,057,440	200		\$ 287,307	\$ 0.00134	\$ 3,021.67	\$ 15,723	\$ 303,030	\$ 1,515.15	\$ 2,469,039	\$ 0.01153	\$ 12,345.19		
Class 5, FLEX, Trans for Resale	51,688,895	23	10.5%	\$ 69,377	\$ 0.00134	\$ 3,021.67	\$ -	\$ 69,377	\$ 3,016.38	\$ -	\$ 69,377	\$ 0.00134	\$ 3,016.38	
Direct Connect	254,301,693	8		\$ 341,323	\$ 0.00134	\$ -	\$ (341,323)	\$ -	\$ -	\$ (341,323)	\$ -	\$ -		
Michigan Mines	n/a	n/a		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		
	876,307,816	242,593		\$ 6,647,683		\$ -	\$ -	\$ 6,647,683		\$ (341,323)	\$ 6,647,683			

			Rate Case Apportionment 2				Option 3				Option 4			
	Therm Sales	Customer Count	Revenue Apportionment	Initial Apportionment	Rate/Therm	\$/Customer	Redistribute	Apportionment	\$/Customer	Redistribute	Apportionment	Rate/Therm	\$/Customer	
Residential	193,400,435	218,327	62.5%	\$ 4,154,802	\$ 0.02148	\$ 19.03	\$ -	\$ 4,154,802	\$ 19.03	\$ -	\$ 4,154,802	\$ 0.02148	\$ 19.03	
Class 1-2 Firm (Sales and Transport)	116,035,316	23,482	23.5%	\$ 1,497,818	\$ 0.01291	\$ 63.79	\$ -	\$ 1,497,818	\$ 63.79	\$ -	\$ 1,326,777	\$ 0.01143	\$ 56.50	
Class 3-4 Firm (Sales and Transport)	4,988,029	26		\$ 64,387	\$ 0.01291	\$ 2,476.42	\$ -	\$ 64,387	\$ 2,476.42	\$ -	\$ 19,808	\$ 0.00397	\$ 761.84	
Class 1-2 Interruptible (Sales and Transport), Class 1-2 Ag Grain Dryer, and Class 1 Electric Gen	20,589,801	513		\$ 34,104	\$ 0.00166	\$ 66.48	\$ -	\$ 75,652	\$ 147.47	\$ -	\$ 235,429	\$ 0.01143	\$ 458.93	
Class 3-4 Interruptible (Sales and Transport) and Class 3 Ag Grain Dryer	188,148,470	100	14.0%	\$ 311,639	\$ 0.00166	\$ 3,116.39	\$ -	\$ 691,303	\$ 6,913.03	\$ -	\$ 747,148	\$ 0.00397	\$ 7,471.48	
Class 5, FLEX, Transport for Resale, and Class 2 Electric Gen	98,844,072	137		\$ 163,720	\$ 0.00166	\$ 1,195.04	\$ -	\$ 163,720	\$ 1,195.04	\$ -	\$ 163,720	\$ 0.00166	\$ 1,195.04	
Direct Connect	254,301,693	24,190		\$ 421,212	\$ 0.00166	\$ 17.41	\$ (421,212)	\$ -	\$ -	\$ (421,212)	\$ -	\$ -	\$ -	
Michigan Mines	n/a	267		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
	876,307,816	242,611		\$ 6,647,683		\$ (421,212)	\$ 6,647,683	\$ 6,647,683		\$ (421,212)	\$ 6,647,683			

Customer Class	Proposed GUIC Rider Surcharge	Average Annual Cost	Total \$	% of 2020 GUIC revenue requirement
Residential	\$ 0.02148	\$ 19	\$ 4,154,802	62.5%
Class 1-2 Firm (Sales and Transport)	\$ 0.01143	\$ 57	\$ 1,326,777	20.0%
Class 1-2 Interruptible (Sales and Transport), Class 1-2 Ag Grain Dryer, and Class 1 Electric Gen	\$ 0.01143	\$ 459	\$ 235,429	3.5%
Class 3-4 Firm (Sales and Transport)	\$ 0.00397	\$ 762	\$ 19,808	0.3%
Class 3-4 Interruptible (Sales and Transport) and Class 3 Ag Grain Dryer	\$ 0.00397	\$ 7,471	\$ 747,148	11.2%
Class 5, FLEX, Transport for Resale, and Class 2 Electric Gen	\$ 0.00166	\$ 1,195	\$ 163,720	2.5%
Direct Connect	\$ -	\$ -	\$ -	0.0%
Total			\$ 6,647,683	100%

GUIC Rider
Total Mains, Services, Stations
Revenue Requirement

		Construction Expenditures		Plant in	Accumulated	Accumulated		ADIT Proration	Adjusted Rate	Depreciation	
	Month	Placed in Service ¹	CWIP Balance	Service Balance, net	Depreciation, net	Deferred Tax	Rate Base	Adjust	Base	Return of	O&M
2019	Jan-19	-	-	-	-	-	-	-	-	-	-
2019	Feb-19	562	562	-	-	-	-	-	-	-	102
2019	Mar-19	20,140	13,656	5,911	1,134	(341)	6,704	-	6,704	-	-
2019	Apr-19	467,460	372,374	97,148	18,627	(5,687)	110,088	-	110,088	12	459
2019	May-19	2,630,831	1,721,804	1,216,196	181,565	(57,492)	1,340,269	-	1,340,269	195	1,148
2019	Jun-19	1,687,541	2,064,952	2,477,556	297,029	(98,458)	2,676,127	-	2,676,127	2,304	38,220
2019	Jul-19	1,336,824	1,734,916	4,088,442	355,955	(127,669)	4,316,727	-	4,316,727	4,416	143,385
2019	Aug-19	1,257,249	2,217,726	4,653,219	560,869	(194,117)	5,019,971	-	5,019,971	6,964	288,759
2019	Sep-19	1,580,658	3,337,376	5,013,231	667,082	(231,633)	5,448,680	-	5,448,680	7,981	408,386
2019	Oct-19	1,366,220	2,523,554	7,047,133	812,278	(295,962)	7,563,449	-	7,563,449	8,707	311,523
2019	Nov-19	654,011	1,032,399	8,955,068	1,041,096	(386,665)	9,609,500	-	9,609,500	11,941	326,021
2019	Dec-19	65,291	140,128	9,627,253	1,313,539	(480,006)	10,460,786	-	10,460,786	14,862	225,845
2020	Jan-20	165	-	9,767,545	1,297,664	(492,183)	10,573,027	(7,503)	10,565,524	15,875	270
2020	Feb-20	330	-	9,767,875	1,281,579	(504,300)	10,545,154	(13,580)	10,531,574	16,085	270
2020	Mar-20	1,319	-	9,769,194	1,265,494	(516,420)	10,518,268	(18,224)	10,500,044	16,086	1,618
2020	Apr-20	230,740	-	9,999,934	1,249,406	(529,362)	10,719,978	(21,815)	10,698,163	16,088	330,934
2020	May-20	505,157	-	10,505,091	1,232,935	(543,834)	11,194,192	(24,447)	11,169,745	16,471	411,308
2020	Jun-20	1,065,362	-	11,570,453	1,215,626	(561,975)	12,224,104	(26,545)	12,197,559	17,309	749,524
2020	Jul-20	1,545,632	-	13,116,085	1,196,550	(584,523)	13,728,112	(27,606)	13,700,507	19,076	601,183
2020	Aug-20	1,800,930	-	14,917,014	1,174,910	(610,928)	15,480,996	(26,729)	15,454,268	21,640	374,897
2020	Sep-20	1,996,400	-	16,913,414	1,150,282	(641,273)	17,422,423	(23,289)	17,399,134	24,628	264,585
2020	Oct-20	2,076,170	-	18,989,584	1,122,342	(674,956)	19,436,970	(16,483)	19,420,487	27,940	144,295
2020	Nov-20	2,166,653	-	21,156,237	1,090,957	(712,257)	21,534,938	(5,784)	21,529,154	31,384	163,984
2020	Dec-20	2,200,275	-	23,356,513	1,055,978	(752,767)	23,659,724	9,506	23,669,230	34,979	58,527
2021	Jan-21	134	-	23,356,647	1,017,349	(780,706)	23,593,290	(17,160)	23,576,130	38,629	270
2021	Feb-21	268	-	23,356,914	978,720	(808,646)	23,526,989	(31,180)	23,495,808	38,629	270
2021	Mar-21	1,071	-	23,357,986	940,090	(836,587)	23,461,488	(41,893)	23,419,595	38,630	1,618
2021	Apr-21	187,457	-	23,545,442	901,458	(865,198)	23,581,703	(49,646)	23,532,057	38,632	330,934
2021	May-21	410,396	-	23,955,839	862,509	(895,053)	23,923,295	(54,475)	23,868,820	38,949	411,308
2021	Jun-21	865,515	-	24,821,354	822,864	(927,889)	24,716,328	(56,766)	24,659,562	39,645	749,524
2021	Jul-21	1,255,693	-	26,077,046	781,752	(964,302)	25,894,496	(56,070)	25,838,427	41,112	601,183
2021	Aug-21	1,463,100	-	27,540,147	738,512	(1,003,841)	27,274,818	(51,655)	27,223,162	43,240	374,897
2021	Sep-21	1,621,903	-	29,162,050	692,792	(1,046,570)	28,808,271	(43,052)	28,765,219	45,720	264,585
2021	Oct-21	1,686,709	-	30,848,759	644,323	(1,091,998)	30,401,084	(29,573)	30,371,511	48,469	144,295
2021	Nov-21	1,760,219	-	32,608,978	592,995	(1,140,353)	32,061,621	(10,828)	32,050,793	51,328	163,984
2021	Dec-21	1,787,534	-	34,396,513	538,684	(1,191,299)	33,743,898	13,784	33,757,681	54,311	58,527

Assumptions

- Forecasted GUIC related right of way and replacement service construction expenditures go into service as spent

Gas Mains Summary

Month	Net Plant in Service			Depr. Calculation			Accumulated Depreciation		
	Additions	Retirements	Net Accumulated Investment	Beginning of the Month Addition	Annual Depr. Rate	Deprc Exp (NetDep)	Retirement	Cost Of Removal	End Bal
	[A]	[B]	[C]	[D]	[E]	[F]	[H]	[I]	[K]
12/1/2018	\$ -	\$ -	\$ -						
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ 272,878	\$ -	\$ 272,878	\$ -	\$ -	\$ (780)	\$ -	\$ -	\$ 780
6/1/2019	\$ 828,599	\$ -	\$ 1,101,477	\$ 272,878	\$ -	\$ (34,325)	\$ -	\$ -	\$ 35,106
7/1/2019	\$ 1,351,495	\$ -	\$ 2,452,972	\$ 1,101,477	\$ -	\$ (11,920)	\$ -	\$ -	\$ 47,026
8/1/2019	\$ 231,291	\$ -	\$ 2,684,263	\$ 2,452,972	\$ -	\$ (144,213)	\$ -	\$ -	\$ 191,239
9/1/2019	\$ (6,000)	\$ -	\$ 2,678,263	\$ 2,684,263	\$ -	\$ (39,942)	\$ -	\$ -	\$ 231,181
10/1/2019	\$ 1,673,785	\$ -	\$ 4,352,049	\$ 2,678,263	\$ -	\$ (80,790)	\$ -	\$ -	\$ 311,971
11/1/2019	\$ 1,790,457	\$ -	\$ 6,142,505	\$ 4,352,049	\$ -	\$ (211,691)	\$ -	\$ -	\$ 523,662
12/1/2019	\$ 664,295	\$ -	\$ 6,806,800	\$ 6,142,505	\$ -	\$ (276,577)	\$ -	\$ -	\$ 800,239
	\$ 6,806,800	\$ -				\$ (800,239)	\$ -	\$ -	
	\$ -	\$ -							\$ 800,239
	\$ -	\$ -							
	\$ -	\$ -							
	\$ -	\$ -							
	\$ -	\$ -							
	\$ -	\$ -							
1/1/2020	\$ 140,242	\$ -	\$ 6,947,042	\$ 6,806,800	\$ -	\$ 10,210	\$ -	\$ -	\$ 790,029
2/1/2020	\$ 229	\$ -	\$ 6,947,271	\$ 6,947,042	\$ -	\$ 10,421	\$ -	\$ -	\$ 779,609
3/1/2020	\$ 914	\$ -	\$ 6,948,185	\$ 6,947,271	\$ -	\$ 10,421	\$ -	\$ -	\$ 769,188
4/1/2020	\$ 159,987	\$ -	\$ 7,108,173	\$ 6,948,185	\$ -	\$ 10,422	\$ -	\$ -	\$ 758,765
5/1/2020	\$ 350,258	\$ -	\$ 7,458,431	\$ 7,108,173	\$ -	\$ 10,662	\$ -	\$ -	\$ 748,103
6/1/2020	\$ 738,685	\$ -	\$ 8,197,116	\$ 7,458,431	\$ -	\$ 11,188	\$ -	\$ -	\$ 736,916
7/1/2020	\$ 1,071,687	\$ -	\$ 9,268,803	\$ 8,197,116	\$ -	\$ 12,296	\$ -	\$ -	\$ 724,620
8/1/2020	\$ 1,248,702	\$ -	\$ 10,517,505	\$ 9,268,803	\$ -	\$ 13,903	\$ -	\$ -	\$ 710,177
9/1/2020	\$ 1,384,234	\$ -	\$ 11,901,739	\$ 10,517,505	\$ -	\$ 15,776	\$ -	\$ -	\$ 694,940
10/1/2020	\$ 1,439,544	\$ -	\$ 13,341,283	\$ 11,901,739	\$ -	\$ 17,853	\$ -	\$ -	\$ 677,088
11/1/2020	\$ 1,502,282	\$ -	\$ 14,843,565	\$ 13,341,283	\$ -	\$ 20,012	\$ -	\$ -	\$ 657,076
12/1/2020	\$ 1,525,594	\$ -	\$ 16,369,159	\$ 14,843,565	\$ -	\$ 22,265	\$ -	\$ -	\$ 634,811
	\$ 9,562,359	\$ -				\$ 165,429	\$ -	\$ -	
									\$ 634,811
1/1/2021	\$ 83	\$ -	\$ 16,369,242	\$ 16,369,159	\$ -	\$ 24,554	\$ -	\$ -	\$ 610,257
2/1/2021	\$ 165	\$ -	\$ 16,369,407	\$ 16,369,242	\$ -	\$ 24,554	\$ -	\$ -	\$ 585,703
3/1/2021	\$ 661	\$ -	\$ 16,370,067	\$ 16,369,407	\$ -	\$ 24,554	\$ -	\$ -	\$ 561,149
4/1/2021	\$ 115,590	\$ -	\$ 16,485,657	\$ 16,370,067	\$ -	\$ 24,555	\$ -	\$ -	\$ 536,594
5/1/2021	\$ 253,059	\$ -	\$ 16,738,716	\$ 16,485,657	\$ -	\$ 24,728	\$ -	\$ -	\$ 511,865
6/1/2021	\$ 533,695	\$ -	\$ 17,272,411	\$ 16,738,716	\$ -	\$ 25,108	\$ -	\$ -	\$ 486,757
7/1/2021	\$ 774,287	\$ -	\$ 18,046,698	\$ 17,272,411	\$ -	\$ 25,909	\$ -	\$ -	\$ 460,849
8/1/2021	\$ 902,179	\$ -	\$ 18,948,877	\$ 18,046,698	\$ -	\$ 27,070	\$ -	\$ -	\$ 433,778
9/1/2021	\$ 1,000,100	\$ -	\$ 19,948,977	\$ 18,948,877	\$ -	\$ 28,423	\$ -	\$ -	\$ 405,355
10/1/2021	\$ 1,040,061	\$ -	\$ 20,989,038	\$ 19,948,977	\$ -	\$ 29,923	\$ -	\$ -	\$ 375,432
11/1/2021	\$ 1,085,389	\$ -	\$ 22,074,427	\$ 20,989,038	\$ -	\$ 31,484	\$ -	\$ -	\$ 343,948
12/1/2021	\$ 1,102,232	\$ -	\$ 23,176,659	\$ 22,074,427	\$ -	\$ 33,112	\$ -	\$ -	\$ 310,836
	\$ 6,807,500	\$ -			\$ -	\$ 323,974	\$ -	\$ -	

**Minnesota Energy Resources Corporation
GUIC Revenue Requirement**

Gas Mains Summary

Deferred Income Taxes										
Month	Tax Addition	Tax Depr.	Tax Gain/(Loss) on Retirements	Book/Tax Difference	Bonus Effect	NOL	Deferred Tax	End Bal	Rate Base	
					0.0000%	0.0000%	-			
	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T] = [C] + [K] + [S]	
12/1/2018										
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ 272,878	\$ (4,264)	\$ -	\$ (5,044)	\$ -	\$ -	\$ (1,446)	\$ (1,446)	\$ 272,212	\$ 272,212
6/1/2019	\$ 828,599	\$ (16,389)	\$ -	\$ (50,714)	\$ -	\$ -	\$ (14,537)	\$ (15,983)	\$ 1,120,599	\$ 1,120,599
7/1/2019	\$ 1,351,495	\$ (33,006)	\$ -	\$ (44,926)	\$ -	\$ -	\$ (12,878)	\$ (28,861)	\$ 2,471,137	\$ 2,471,137
8/1/2019	\$ 231,291	\$ (13,448)	\$ -	\$ (157,661)	\$ -	\$ -	\$ (45,193)	\$ (74,054)	\$ 2,801,448	\$ 2,801,448
9/1/2019	\$ (6,000)	\$ (8,219)	\$ -	\$ (48,161)	\$ -	\$ -	\$ (13,805)	\$ (87,859)	\$ 2,821,585	\$ 2,821,585
10/1/2019	\$ 1,673,785	\$ (60,676)	\$ -	\$ (141,466)	\$ -	\$ -	\$ (40,551)	\$ (128,410)	\$ 4,535,610	\$ 4,535,610
11/1/2019	\$ 1,790,457	\$ (75,147)	\$ -	\$ (286,838)	\$ -	\$ -	\$ (82,221)	\$ (210,631)	\$ 6,455,537	\$ 6,455,537
12/1/2019	\$ 664,295	\$ (44,106)	\$ -	\$ (320,683)	\$ -	\$ -	\$ (91,923)	\$ (302,553)	\$ 7,304,487	\$ 7,304,487
	\$ 6,806,800	\$ (255,255)	\$ -	\$ (1,055,494)	\$ -	\$ -	\$ (302,553)			
							21.0000%			
							7.6646%			
					0.0000%	0.0000%				
					[P]	[Q]				
1/1/2020	\$ 140,242	\$ (41,387)	\$ -	\$ (31,177)	\$ -	\$ -	\$ (8,937)	\$ (302,553)	\$ 7,425,582	\$ 7,425,582
2/1/2020	\$ 229	\$ (41,388)	\$ -	\$ (30,967)	\$ -	\$ -	\$ (8,877)	\$ (311,490)	\$ 7,406,513	\$ 7,406,513
3/1/2020	\$ 914	\$ (41,396)	\$ -	\$ (30,975)	\$ -	\$ -	\$ (8,879)	\$ (329,246)	\$ 7,388,127	\$ 7,388,127
4/1/2020	\$ 159,987	\$ (43,390)	\$ -	\$ (32,968)	\$ -	\$ -	\$ (9,450)	\$ (338,696)	\$ 7,528,242	\$ 7,528,242
5/1/2020	\$ 350,258	\$ (47,364)	\$ -	\$ (36,702)	\$ -	\$ -	\$ (10,520)	\$ (349,216)	\$ 7,857,318	\$ 7,857,318
6/1/2020	\$ 738,685	\$ (56,834)	\$ -	\$ (45,646)	\$ -	\$ -	\$ (13,084)	\$ (362,300)	\$ 8,571,731	\$ 8,571,731
7/1/2020	\$ 1,071,687	\$ (68,737)	\$ -	\$ (56,441)	\$ -	\$ -	\$ (16,179)	\$ (378,479)	\$ 9,614,944	\$ 9,614,944
8/1/2020	\$ 1,248,702	\$ (79,861)	\$ -	\$ (65,958)	\$ -	\$ -	\$ (18,907)	\$ (397,386)	\$ 10,830,836	\$ 10,830,836
9/1/2020	\$ 1,384,234	\$ (91,475)	\$ -	\$ (75,699)	\$ -	\$ -	\$ (21,699)	\$ (419,084)	\$ 12,177,595	\$ 12,177,595
10/1/2020	\$ 1,439,544	\$ (101,857)	\$ -	\$ (84,004)	\$ -	\$ -	\$ (24,080)	\$ (443,164)	\$ 13,575,207	\$ 13,575,207
11/1/2020	\$ 1,502,282	\$ (113,009)	\$ -	\$ (92,997)	\$ -	\$ -	\$ (26,657)	\$ (469,821)	\$ 15,030,819	\$ 15,030,819
12/1/2020	\$ 1,525,594	\$ (123,273)	\$ -	\$ (101,008)	\$ -	\$ -	\$ (28,953)	\$ (498,775)	\$ 16,505,195	\$ 16,505,195
	\$ 9,562,359	\$ (849,971)	\$ -	\$ (684,542)	\$ -	\$ -	\$ (196,221)			
							21.0000%			
							7.6646%			
					0.0000%	0.0000%				
					[P]	[Q]				
1/1/2021	\$ 83	\$ (95,400)	\$ -	\$ (70,846)	\$ -	\$ -	\$ (20,308)	\$ (519,082)	\$ 16,460,416	\$ 16,460,416
2/1/2021	\$ 165	\$ (95,401)	\$ -	\$ (70,847)	\$ -	\$ -	\$ (20,308)	\$ (539,390)	\$ 16,415,719	\$ 16,415,719
3/1/2021	\$ 661	\$ (95,408)	\$ -	\$ (70,854)	\$ -	\$ -	\$ (20,310)	\$ (559,700)	\$ 16,371,516	\$ 16,371,516
4/1/2021	\$ 115,590	\$ (96,846)	\$ -	\$ (72,291)	\$ -	\$ -	\$ (20,722)	\$ (580,422)	\$ 16,441,829	\$ 16,441,829
5/1/2021	\$ 253,059	\$ (99,718)	\$ -	\$ (74,990)	\$ -	\$ -	\$ (21,495)	\$ (601,918)	\$ 16,648,664	\$ 16,648,664
6/1/2021	\$ 533,695	\$ (106,561)	\$ -	\$ (81,453)	\$ -	\$ -	\$ (23,348)	\$ (625,266)	\$ 17,133,903	\$ 17,133,903
7/1/2021	\$ 774,287	\$ (115,160)	\$ -	\$ (89,251)	\$ -	\$ -	\$ (25,584)	\$ (650,849)	\$ 17,856,697	\$ 17,856,697
8/1/2021	\$ 902,179	\$ (123,196)	\$ -	\$ (96,126)	\$ -	\$ -	\$ (27,554)	\$ (678,404)	\$ 18,704,252	\$ 18,704,252
9/1/2021	\$ 1,000,100	\$ (131,590)	\$ -	\$ (103,167)	\$ -	\$ -	\$ (29,572)	\$ (707,976)	\$ 19,646,357	\$ 19,646,357
10/1/2021	\$ 1,040,061	\$ (139,089)	\$ -	\$ (109,166)	\$ -	\$ -	\$ (31,292)	\$ (739,268)	\$ 20,625,202	\$ 20,625,202
11/1/2021	\$ 1,085,389	\$ (147,147)	\$ -	\$ (115,663)	\$ -	\$ -	\$ (33,154)	\$ (772,422)	\$ 21,645,953	\$ 21,645,953
12/1/2021	\$ 1,102,232	\$ (154,562)	\$ -	\$ (121,450)	\$ -	\$ -	\$ (34,813)	\$ (807,235)	\$ 22,680,260	\$ 22,680,260
	\$ 6,807,500	\$ (1,400,078)	\$ -	\$ (1,076,104)	\$ -	\$ -	\$ (308,461)			
							21.0000%			
							7.6646%			

2018 & Fwd	
Federal Tax Rate	0.21
MN Tax Rate	0.098
MN Apportionment	0.989671
MI Tax Rate	0.06
MI Apportionment	0.000542

Minnesota Energy Resources Corporation
GUIC Revenue Requirement

Gas Mains Summary

Month	Book/Tax Differ	Bonus Effect	NOL	Deferred Tax	Deferred Tax	Deferred Tax	Federal	Proration	Federal	Federal	Monthly
	Balance	Balance	Balance	Federal	Federal NOL	State	Def Tax Activity	Adjusted Activity	13-Mo Ave DFIT	Prorated - 13mo	Prorated Balance
				21.0000%	21.0000%	7.6646%		Factor * Activity	Activity	Ave DFIT	Adjustment
										Activity Differ	
12/1/2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			0		
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ (5,044)	\$ -	\$ -	\$ (1,059)	\$ -	\$ (387)	2019	\$ (1,059.31)	\$ (623.98)	\$ (81.49)	\$ (542.49)
6/1/2019	\$ (55,759)	\$ -	\$ -	\$ (11,709)	\$ -	\$ (4,274)	2019	\$ (10,650.00)	\$ (5,397.94)	\$ (900.72)	\$ (4,497.23)
7/1/2019	\$ (100,685)	\$ -	\$ -	\$ (21,144)	\$ -	\$ (7,717)	2019	\$ (9,434.49)	\$ (3,980.58)	\$ (1,626.45)	\$ (2,354.13)
8/1/2019	\$ (258,346)	\$ -	\$ -	\$ (54,253)	\$ -	\$ (19,801)	2019	\$ (33,108.91)	\$ (11,157.24)	\$ (4,173.29)	\$ (6,983.95)
9/1/2019	\$ (306,507)	\$ -	\$ -	\$ (64,366)	\$ -	\$ (23,493)	2019	\$ (10,113.73)	\$ (2,576.93)	\$ (4,951.26)	\$ 2,374.34
10/1/2019	\$ (447,973)	\$ -	\$ -	\$ (94,074)	\$ -	\$ (34,335)	2019	\$ (29,707.89)	\$ (5,046.27)	\$ (7,236.49)	\$ 2,190.22
11/1/2019	\$ (734,811)	\$ -	\$ -	\$ (154,310)	\$ -	\$ (56,320)	2019	\$ (60,236.03)	\$ (5,280.95)	\$ (11,870.03)	\$ 6,589.07
12/1/2019	\$ (1,055,494)	\$ -	\$ -	\$ (221,654)	\$ -	\$ (80,899)	2019	\$ (67,343.46)	\$ (184.52)	\$ (17,050.29)	\$ 16,865.77
				\$ (47,890.01)				\$ (34,248.41)	\$ (47,890.01)	\$ 13,641.59	
				^13-mo Ave Balance^			BOY FED ADIT	\$ -	\$ -		
				21.0000%	21.0000%	7.6646%	Prorated ADIT>	\$ (34,248.41)	\$ (47,890.01)	<13-Mo Ave ADIT	\$ 13,641.59
	\$ (1,055,494)	\$ -	\$ -	\$ (221,654)	\$ -	\$ (80,899)	2020	\$ (6,547.13)	\$ (6,010.48)	\$ (503.63)	\$ (5,506.86)
1/1/2020	\$ (1,086,671)	\$ -	\$ -	\$ (228,201)	\$ -	\$ (83,289)	2020	\$ (6,503.16)	\$ (5,454.84)	\$ (1,003.87)	\$ (4,450.97)
2/1/2020	\$ (1,117,639)	\$ -	\$ -	\$ (234,704)	\$ -	\$ (85,663)	2020	\$ (6,504.77)	\$ (4,905.23)	\$ (1,504.24)	\$ (3,401.00)
3/1/2020	\$ (1,148,614)	\$ -	\$ -	\$ (241,209)	\$ -	\$ (88,037)	2020	\$ (6,923.22)	\$ (4,653.31)	\$ (2,036.79)	\$ (2,616.52)
4/1/2020	\$ (1,181,581)	\$ -	\$ -	\$ (248,132)	\$ -	\$ (90,564)	2020	\$ (7,707.37)	\$ (4,527.56)	\$ (2,629.67)	\$ (1,897.89)
5/1/2020	\$ (1,218,283)	\$ -	\$ -	\$ (255,839)	\$ -	\$ (93,377)	2020	\$ (9,585.73)	\$ (4,845.24)	\$ (3,367.03)	\$ (1,478.21)
6/1/2020	\$ (1,263,930)	\$ -	\$ -	\$ (265,425)	\$ -	\$ (96,875)	2020	\$ (11,852.68)	\$ (4,987.19)	\$ (4,278.77)	\$ (708.42)
7/1/2020	\$ (1,320,371)	\$ -	\$ -	\$ (277,278)	\$ -	\$ (101,201)	2020	\$ (13,851.14)	\$ (4,654.90)	\$ (5,344.25)	\$ 689.35
8/1/2020	\$ (1,386,329)	\$ -	\$ -	\$ (291,129)	\$ -	\$ (106,257)	2020	\$ (15,896.73)	\$ (4,039.33)	\$ (6,567.07)	\$ 2,527.74
9/1/2020	\$ (1,462,027)	\$ -	\$ -	\$ (307,026)	\$ -	\$ (112,059)	2020	\$ (17,640.93)	\$ (2,988.36)	\$ (7,924.07)	\$ 4,935.71
10/1/2020	\$ (1,546,032)	\$ -	\$ -	\$ (324,667)	\$ -	\$ (118,497)	2020	\$ (19,529.38)	\$ (1,707.49)	\$ (9,426.33)	\$ 7,718.83
11/1/2020	\$ (1,639,029)	\$ -	\$ -	\$ (344,196)	\$ -	\$ (125,625)	2020	\$ (21,211.61)	\$ (57.95)	\$ (11,057.99)	\$ 11,000.04
12/1/2020	\$ (1,740,037)	\$ -	\$ -	\$ (365,408)	\$ -	\$ (133,367)	2020	\$ (21,211.61)	\$ (57.95)	\$ (11,057.99)	\$ 11,000.04
				\$ (277,297.51)				\$ (48,831.88)	\$ (55,643.69)	\$ 6,811.81	
				^13-mo Ave Balance^			BOY FED ADIT	\$ (221,654)	\$ (221,654)		
				21.0000%	21.0000%	7.6646%	Prorated ADIT>	\$ (270,485.70)	\$ (277,297.51)	<13-Mo Ave ADIT	\$ 6,811.81
	\$ (1,740,037)	\$ -	\$ -	\$ (365,408)	\$ -	\$ (133,367)	2021	\$ (14,877.71)	\$ (13,617.58)	\$ (1,144.44)	\$ (12,473.14)
1/1/2021	\$ (1,810,883)	\$ -	\$ -	\$ (380,285)	\$ -	\$ (138,797)	2021	\$ (14,877.90)	\$ (12,479.55)	\$ (2,288.89)	\$ (10,190.66)
2/1/2021	\$ (1,881,730)	\$ -	\$ -	\$ (395,163)	\$ -	\$ (144,227)	2021	\$ (14,879.32)	\$ (11,220.47)	\$ (3,433.46)	\$ (7,787.01)
3/1/2021	\$ (1,952,584)	\$ -	\$ -	\$ (410,043)	\$ -	\$ (149,658)	2021	\$ (15,181.09)	\$ (10,203.68)	\$ (4,601.23)	\$ (5,602.45)
4/1/2021	\$ (2,024,875)	\$ -	\$ -	\$ (425,224)	\$ -	\$ (155,199)	2021	\$ (15,747.80)	\$ (9,250.76)	\$ (5,812.60)	\$ (3,438.16)
5/1/2021	\$ (2,099,864)	\$ -	\$ -	\$ (440,971)	\$ -	\$ (160,946)	2021	\$ (17,105.11)	\$ (8,646.02)	\$ (7,128.38)	\$ (1,517.64)
6/1/2021	\$ (2,181,317)	\$ -	\$ -	\$ (458,077)	\$ -	\$ (167,189)	2021	\$ (18,742.79)	\$ (7,886.31)	\$ (8,570.13)	\$ 683.82
7/1/2021	\$ (2,270,569)	\$ -	\$ -	\$ (476,819)	\$ -	\$ (174,030)	2021	\$ (20,186.45)	\$ (6,783.98)	\$ (10,122.94)	\$ 3,338.96
8/1/2021	\$ (2,366,694)	\$ -	\$ -	\$ (497,006)	\$ -	\$ (181,398)	2021	\$ (21,665.01)	\$ (5,505.04)	\$ (11,789.48)	\$ 6,284.44
9/1/2021	\$ (2,469,861)	\$ -	\$ -	\$ (518,671)	\$ -	\$ (189,305)	2021	\$ (22,924.76)	\$ (3,883.43)	\$ (13,552.92)	\$ 9,669.49
10/1/2021	\$ (2,579,027)	\$ -	\$ -	\$ (541,596)	\$ -	\$ (197,672)	2021	\$ (24,289.32)	\$ (2,123.66)	\$ (15,421.33)	\$ 13,297.66
11/1/2021	\$ (2,694,690)	\$ -	\$ -	\$ (565,885)	\$ -	\$ (206,537)	2021	\$ (25,504.58)	\$ (69.68)	\$ (17,383.22)	\$ 17,313.54
12/1/2021	\$ (2,816,140)	\$ -	\$ -	\$ (591,390)	\$ -	\$ (215,846)	2021	\$ (25,504.58)	\$ (69.68)	\$ (17,383.22)	\$ 17,313.54
				\$ (466,656.68)				\$ (91,670.16)	\$ (101,249.01)	\$ 9,578.85	
				^13-mo Ave Balance^			BOY FED ADIT	\$ (365,408)	\$ (365,408)		
				21.0000%	21.0000%	7.6646%	Prorated ADIT>	\$ (457,077.83)	\$ (466,656.68)	<13-Mo Ave ADIT	\$ 9,578.85

Gas Services Summary

[illegible]

**Minnesota Energy Resources Corporation
GUIC Revenue Requirement**

Gas Services Summary

Deferred Income Taxes										
Month	Tax Addition	Tax Depr.	Tax Gain/(Loss) on Retirements	Book/Tax Difference	Bonus Effect	NOL	Deferred Tax	End Bal	Rate Base	
	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T] = [C] + [K] + [S]	
12/1/2018					0.0000%	0.0000%	-			
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ 5,911	\$ (55)	\$ -	\$ (1,189)	\$ -	\$ -	\$ (341)	\$ (341)	\$ 6,704	\$ 6,704
4/1/2019	\$ 91,237	\$ (1,159)	\$ -	\$ (18,652)	\$ -	\$ -	\$ (5,347)	\$ (5,687)	\$ 110,088	\$ 110,088
5/1/2019	\$ 846,170	\$ (13,525)	\$ -	\$ (175,683)	\$ -	\$ -	\$ (50,359)	\$ (56,046)	\$ 1,068,057	\$ 1,068,057
6/1/2019	\$ 432,761	\$ (11,062)	\$ -	\$ (92,201)	\$ -	\$ -	\$ (26,429)	\$ (82,475)	\$ 1,555,528	\$ 1,555,528
7/1/2019	\$ 259,390	\$ (9,975)	\$ -	\$ (56,980)	\$ -	\$ -	\$ (16,333)	\$ (98,808)	\$ 1,845,590	\$ 1,845,590
8/1/2019	\$ 333,486	\$ (13,448)	\$ -	\$ (74,148)	\$ -	\$ -	\$ (21,254)	\$ (120,063)	\$ 2,218,522	\$ 2,218,522
9/1/2019	\$ 366,012	\$ (16,447)	\$ -	\$ (82,719)	\$ -	\$ -	\$ (23,711)	\$ (143,774)	\$ 2,627,095	\$ 2,627,095
10/1/2019	\$ 360,117	\$ (18,550)	\$ -	\$ (82,956)	\$ -	\$ -	\$ (23,779)	\$ (167,553)	\$ 3,027,839	\$ 3,027,839
11/1/2019	\$ 117,478	\$ (12,461)	\$ -	\$ (29,588)	\$ -	\$ -	\$ (8,481)	\$ (176,034)	\$ 3,153,963	\$ 3,153,963
12/1/2019	\$ 7,890	\$ (9,085)	\$ -	\$ (4,950)	\$ -	\$ -	\$ (1,419)	\$ (177,453)	\$ 3,156,299	\$ 3,156,299
	\$ 2,820,453	\$ (105,767)	\$ -	\$ (619,066)	\$ -	\$ -	\$ (177,453)			
							21.0000%			
							7.6646%			
					0.0000%	0.0000%				
					[P]	[Q]				
							\$	(177,453)		
1/1/2020	\$ 50	\$ (16,967)	\$ -	\$ (11,303)	\$ -	\$ -	\$ (3,240)	\$ (180,693)	\$ 3,147,445	\$ 3,147,445
2/1/2020	\$ 100	\$ (16,969)	\$ -	\$ (11,304)	\$ -	\$ -	\$ (3,240)	\$ (183,933)	\$ 3,138,641	\$ 3,138,641
3/1/2020	\$ 402	\$ (16,971)	\$ -	\$ (11,306)	\$ -	\$ -	\$ (3,241)	\$ (187,174)	\$ 3,130,137	\$ 3,130,137
4/1/2020	\$ 70,304	\$ (17,848)	\$ -	\$ (12,182)	\$ -	\$ -	\$ (3,492)	\$ (190,666)	\$ 3,191,283	\$ 3,191,283
5/1/2020	\$ 153,916	\$ (19,594)	\$ -	\$ (13,787)	\$ -	\$ -	\$ (3,952)	\$ (194,618)	\$ 3,335,440	\$ 3,335,440
6/1/2020	\$ 324,604	\$ (23,756)	\$ -	\$ (17,640)	\$ -	\$ -	\$ (5,056)	\$ (199,675)	\$ 3,648,872	\$ 3,648,872
7/1/2020	\$ 470,937	\$ (28,986)	\$ -	\$ (22,218)	\$ -	\$ -	\$ (6,369)	\$ (206,043)	\$ 4,106,673	\$ 4,106,673
8/1/2020	\$ 548,724	\$ (33,874)	\$ -	\$ (26,160)	\$ -	\$ -	\$ (7,499)	\$ (213,542)	\$ 4,640,185	\$ 4,640,185
9/1/2020	\$ 608,281	\$ (38,978)	\$ -	\$ (30,162)	\$ -	\$ -	\$ (8,646)	\$ (222,188)	\$ 5,231,005	\$ 5,231,005
10/1/2020	\$ 632,587	\$ (43,541)	\$ -	\$ (33,504)	\$ -	\$ -	\$ (9,604)	\$ (231,792)	\$ 5,843,950	\$ 5,843,950
11/1/2020	\$ 660,156	\$ (48,440)	\$ -	\$ (37,132)	\$ -	\$ -	\$ (10,644)	\$ (242,436)	\$ 6,482,155	\$ 6,482,155
12/1/2020	\$ 670,400	\$ (52,951)	\$ -	\$ (40,318)	\$ -	\$ -	\$ (11,557)	\$ (253,993)	\$ 7,128,365	\$ 7,128,365
	\$ 4,140,462	\$ (358,875)	\$ -	\$ (267,018)	\$ -	\$ -	\$ (76,540)			
							21.0000%			
							7.6646%			
					0.0000%	0.0000%				
					[P]	[Q]				
1/1/2021	\$ 51	\$ (40,601)	\$ -	\$ (26,621)	\$ -	\$ -	\$ (7,631)	\$ (261,623)	\$ 7,106,805	\$ 7,106,805
2/1/2021	\$ 103	\$ (40,604)	\$ -	\$ (26,624)	\$ -	\$ -	\$ (7,632)	\$ (269,255)	\$ 7,085,296	\$ 7,085,296
3/1/2021	\$ 411	\$ (40,605)	\$ -	\$ (26,625)	\$ -	\$ -	\$ (7,632)	\$ (276,887)	\$ 7,064,095	\$ 7,064,095
4/1/2021	\$ 71,867	\$ (41,502)	\$ -	\$ (27,521)	\$ -	\$ -	\$ (7,889)	\$ (284,776)	\$ 7,114,092	\$ 7,114,092
5/1/2021	\$ 157,337	\$ (43,287)	\$ -	\$ (29,162)	\$ -	\$ -	\$ (8,359)	\$ (293,135)	\$ 7,248,945	\$ 7,248,945
6/1/2021	\$ 331,820	\$ (47,542)	\$ -	\$ (33,101)	\$ -	\$ -	\$ (9,488)	\$ (302,623)	\$ 7,556,835	\$ 7,556,835
7/1/2021	\$ 481,406	\$ (52,887)	\$ -	\$ (37,779)	\$ -	\$ -	\$ (10,829)	\$ (313,452)	\$ 8,012,304	\$ 8,012,304
8/1/2021	\$ 560,921	\$ (57,885)	\$ -	\$ (41,810)	\$ -	\$ -	\$ (11,985)	\$ (325,437)	\$ 8,545,166	\$ 8,545,166
9/1/2021	\$ 621,803	\$ (63,101)	\$ -	\$ (45,900)	\$ -	\$ -	\$ (13,157)	\$ (338,594)	\$ 9,136,611	\$ 9,136,611
10/1/2021	\$ 646,648	\$ (67,765)	\$ -	\$ (49,315)	\$ -	\$ -	\$ (14,136)	\$ (352,730)	\$ 9,750,673	\$ 9,750,673
11/1/2021	\$ 674,830	\$ (72,776)	\$ -	\$ (53,027)	\$ -	\$ -	\$ (15,200)	\$ (367,930)	\$ 10,390,555	\$ 10,390,555
12/1/2021	\$ 685,302	\$ (77,386)	\$ -	\$ (56,282)	\$ -	\$ -	\$ (16,133)	\$ (384,063)	\$ 11,038,621	\$ 11,038,621
	\$ 4,232,500	\$ (645,941)	\$ -	\$ (453,768)	\$ -	\$ -	\$ (130,071)			
							21.0000%			
							7.6646%			

2018 & Fwd	
Federal Tax Rate	0.21
MN Tax Rate	0.098
MN Apportionment	0.989671
MI Tax Rate	0.06
MI Apportionment	0.000542

Minnesota Energy Resources Corporation
GUIC Revenue Requirement

Gas Services Summary

Month	Book/Tax Differ	Bonus Effect	NOL	Deferred Tax	Deferred Tax	Deferred Tax	Federal	Proration	Federal	Federal	Monthly
	Balance	Balance	Balance	Federal	Federal NOL	State	Def Tax Activity	Adjusted Activity	13-Mo Ave DFIT	13mo Ave DFIT	Prorated
				21.0000%	21.0000%	7.6646%		Factor * Activity	Activity	Activity Differ	Balance
											Adjustment
12/1/2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -			0		
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ (1,189)	\$ -	\$ -	\$ (250)	\$ -	\$ (91)	2019 \$ (249.69)	\$ (188.81)	\$ (19.21)	\$ (169.60)	\$ (170)
4/1/2019	\$ (19,841)	\$ -	\$ -	\$ (4,167)	\$ -	\$ (1,521)	2019 \$ (3,916.95)	\$ (2,639.92)	\$ (320.51)	\$ (2,319.41)	\$ (2,489)
5/1/2019	\$ (195,524)	\$ -	\$ -	\$ (41,060)	\$ -	\$ (14,986)	2019 \$ (36,893.40)	\$ (21,731.73)	\$ (3,158.46)	\$ (18,573.26)	\$ (21,062)
6/1/2019	\$ (287,725)	\$ -	\$ -	\$ (60,422)	\$ -	\$ (22,053)	2019 \$ (19,362.11)	\$ (9,813.67)	\$ (4,647.86)	\$ (5,165.81)	\$ (26,228)
7/1/2019	\$ (344,705)	\$ -	\$ -	\$ (72,388)	\$ -	\$ (26,420)	2019 \$ (11,965.88)	\$ (5,048.62)	\$ (5,568.31)	\$ 519.69	\$ (25,708)
8/1/2019	\$ (418,853)	\$ -	\$ -	\$ (87,959)	\$ -	\$ (32,103)	2019 \$ (15,571.17)	\$ (5,247.27)	\$ (6,766.09)	\$ 1,518.83	\$ (24,190)
9/1/2019	\$ (501,572)	\$ -	\$ -	\$ (105,330)	\$ -	\$ (38,444)	2019 \$ (17,370.92)	\$ (4,426.02)	\$ (8,102.32)	\$ 3,676.29	\$ (20,513)
10/1/2019	\$ (584,528)	\$ -	\$ -	\$ (122,751)	\$ -	\$ (44,802)	2019 \$ (17,420.68)	\$ (2,959.13)	\$ (9,442.37)	\$ 6,483.24	\$ (14,030)
11/1/2019	\$ (614,116)	\$ -	\$ -	\$ (128,964)	\$ -	\$ (47,070)	2019 \$ (6,213.56)	\$ (544.75)	\$ (9,920.34)	\$ 9,375.59	\$ (4,654)
12/1/2019	\$ (619,066)	\$ -	\$ -	\$ (130,004)	\$ -	\$ (47,449)	2019 \$ (1,039.59)	\$ (2.85)	\$ (10,000.30)	\$ 9,997.46	\$ 5,343
				\$ (57,945.77)				\$ (52,602.75)	\$ (57,945.77)	\$ 5,343.01	
				^13-mo Ave Balance^			BOY FED ADIT	\$ -	\$ -		
				21.0000%	21.0000%	7.6646%	Prorated ADIT>	\$ (52,602.75)	\$ (57,945.77)	<13-Mo Ave ADIT	\$ 5,343.01
\$ (619,066)	\$ -	\$ -	\$ (130,004)	\$ -	\$ (47,449)						
1/1/2020	\$ (630,369)	\$ -	\$ -	\$ (132,377)	\$ -	\$ (48,315)	2020 \$ (2,373.54)	\$ (2,178.99)	\$ (182.58)	\$ (1,996.41)	\$ (1,996)
2/1/2020	\$ (641,674)	\$ -	\$ -	\$ (134,751)	\$ -	\$ (49,182)	2020 \$ (2,373.95)	\$ (1,991.26)	\$ (365.19)	\$ (1,626.07)	\$ (3,622)
3/1/2020	\$ (652,980)	\$ -	\$ -	\$ (137,126)	\$ -	\$ (50,048)	2020 \$ (2,374.32)	\$ (1,790.47)	\$ (547.83)	\$ (1,242.64)	\$ (4,865)
4/1/2020	\$ (665,162)	\$ -	\$ -	\$ (139,684)	\$ -	\$ (50,982)	2020 \$ (2,558.32)	\$ (1,719.53)	\$ (744.63)	\$ (974.90)	\$ (5,840)
5/1/2020	\$ (678,950)	\$ -	\$ -	\$ (142,579)	\$ -	\$ (52,039)	2020 \$ (2,895.33)	\$ (1,700.81)	\$ (967.34)	\$ (733.47)	\$ (6,573)
6/1/2020	\$ (696,590)	\$ -	\$ -	\$ (146,284)	\$ -	\$ (53,391)	2020 \$ (3,704.44)	\$ (1,872.46)	\$ (1,252.30)	\$ (620.16)	\$ (7,194)
7/1/2020	\$ (718,808)	\$ -	\$ -	\$ (150,950)	\$ -	\$ (55,094)	2020 \$ (4,665.83)	\$ (1,963.22)	\$ (1,611.21)	\$ (352.01)	\$ (7,546)
8/1/2020	\$ (744,968)	\$ -	\$ -	\$ (156,443)	\$ -	\$ (57,099)	2020 \$ (5,493.70)	\$ (1,846.25)	\$ (2,033.80)	\$ 187.56	\$ (7,358)
9/1/2020	\$ (775,131)	\$ -	\$ -	\$ (162,777)	\$ -	\$ (59,411)	2020 \$ (6,334.11)	\$ (1,609.48)	\$ (2,521.04)	\$ 911.56	\$ (6,447)
10/1/2020	\$ (808,635)	\$ -	\$ -	\$ (169,813)	\$ -	\$ (61,979)	2020 \$ (7,035.80)	\$ (1,191.86)	\$ (3,062.26)	\$ 1,870.40	\$ (4,576)
11/1/2020	\$ (845,767)	\$ -	\$ -	\$ (177,611)	\$ -	\$ (64,825)	2020 \$ (7,797.80)	\$ (681.78)	\$ (3,662.09)	\$ 2,980.31	\$ (1,596)
12/1/2020	\$ (886,085)	\$ -	\$ -	\$ (186,078)	\$ -	\$ (67,915)	2020 \$ (8,466.68)	\$ (23.13)	\$ (4,313.37)	\$ 4,290.24	\$ 2,694
				\$ (151,267.59)				\$ (18,569.23)	\$ (21,263.64)	\$ 2,694.41	
				^13-mo Ave Balance^			BOY FED ADIT	\$ (130,004)	\$ (130,004)		
							Prorated ADIT>	\$ (148,573.18)	\$ (151,267.59)	<13-Mo Ave ADIT	\$ 2,694.41
\$ (886,085)	\$ -	\$ -	\$ (186,078)	\$ -	\$ (67,915)						
1/1/2021	\$ (912,706)	\$ -	\$ -	\$ (191,668)	\$ -	\$ (69,955)	2021 \$ (5,590.44)	\$ (5,116.94)	\$ (430.03)	\$ (4,686.90)	\$ (4,687)
2/1/2021	\$ (939,330)	\$ -	\$ -	\$ (197,259)	\$ -	\$ (71,996)	2021 \$ (5,591.06)	\$ (4,689.77)	\$ (860.12)	\$ (3,829.65)	\$ (8,517)
3/1/2021	\$ (965,955)	\$ -	\$ -	\$ (202,850)	\$ -	\$ (74,037)	2021 \$ (5,591.22)	\$ (4,216.33)	\$ (1,290.21)	\$ (2,926.12)	\$ (11,443)
4/1/2021	\$ (993,476)	\$ -	\$ -	\$ (208,630)	\$ -	\$ (76,146)	2021 \$ (5,779.41)	\$ (3,884.52)	\$ (1,734.78)	\$ (2,149.74)	\$ (13,592)
5/1/2021	\$ (1,022,637)	\$ -	\$ -	\$ (214,754)	\$ -	\$ (78,381)	2021 \$ (6,123.96)	\$ (3,597.41)	\$ (2,205.85)	\$ (1,391.56)	\$ (14,984)
6/1/2021	\$ (1,055,738)	\$ -	\$ -	\$ (221,705)	\$ -	\$ (80,918)	2021 \$ (6,951.15)	\$ (3,513.56)	\$ (2,740.56)	\$ (773.00)	\$ (15,757)
7/1/2021	\$ (1,093,517)	\$ -	\$ -	\$ (229,639)	\$ -	\$ (83,814)	2021 \$ (7,933.65)	\$ (3,338.20)	\$ (3,350.84)	\$ 12.64	\$ (15,744)
8/1/2021	\$ (1,135,328)	\$ -	\$ -	\$ (238,419)	\$ -	\$ (87,018)	2021 \$ (8,780.20)	\$ (2,950.73)	\$ (4,026.24)	\$ 1,075.51	\$ (14,669)
9/1/2021	\$ (1,181,228)	\$ -	\$ -	\$ (248,058)	\$ -	\$ (90,536)	2021 \$ (9,638.99)	\$ (2,449.25)	\$ (4,767.70)	\$ 2,318.45	\$ (12,350)
10/1/2021	\$ (1,230,543)	\$ -	\$ -	\$ (258,414)	\$ -	\$ (94,316)	2021 \$ (10,356.19)	\$ (1,754.33)	\$ (5,564.33)	\$ 3,810.00	\$ (8,540)
11/1/2021	\$ (1,283,571)	\$ -	\$ -	\$ (269,550)	\$ -	\$ (98,381)	2021 \$ (11,135.78)	\$ (973.62)	\$ (6,420.93)	\$ 5,447.30	\$ (3,093)
12/1/2021	\$ (1,339,853)	\$ -	\$ -	\$ (281,369)	\$ -	\$ (102,694)	2021 \$ (11,819.26)	\$ (32.29)	\$ (7,330.10)	\$ 7,297.81	\$ 4,205
				\$ (226,799.45)				\$ (36,516.94)	\$ (40,721.68)	\$ 4,204.74	
				^13-mo Ave Balance^			BOY FED ADIT	\$ (186,078)	\$ (186,078)		
							Prorated ADIT>	\$ (222,594.71)	\$ (226,799.45)	<13-Mo Ave ADIT	\$ 4,204.74

Gas Stations Summary

[illegible]

Minnesota Energy Resources Corporation
GUIC Revenue Requirement

Gas Stations Summary

Deferred Income Taxes										
Month	Tax Addition	Tax Depr.	Tax Gain/(Loss) on Retirements	Book/Tax Difference	Bonus Effect	NOL	Deferred Tax	End Bal	Rate Base	
	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T] = [C] + [K] + [S]	
12/1/2018					0.0000%	0.0000%	-			
1/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
2/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
3/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
4/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
5/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
6/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
7/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
8/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
9/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
10/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
11/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
12/1/2019 \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	- \$
							21.0000%			
							7.6646%			
					0.0000%	0.0000%				
					[P]	[Q]				
1/1/2020 \$	0 \$	- \$	- \$	(0) \$	- \$	- \$	- \$	- \$	0	
2/1/2020 \$	1 \$	- \$	- \$	0 \$	- \$	- \$	- \$	- \$	1	
3/1/2020 \$	3 \$	- \$	- \$	0 \$	- \$	- \$	- \$	- \$	4	
4/1/2020 \$	449 \$	(6) \$	- \$	(6) \$	- \$	- \$	- \$	- \$	452	
5/1/2020 \$	983 \$	(16) \$	- \$	(14) \$	- \$	- \$	- \$	- \$	1,434	
6/1/2020 \$	2,073 \$	(44) \$	- \$	(39) \$	- \$	- \$	- \$	- \$	3,501	
7/1/2020 \$	3,007 \$	(77) \$	- \$	(64) \$	- \$	- \$	- \$	- \$	6,496	
8/1/2020 \$	3,504 \$	(107) \$	- \$	(83) \$	- \$	- \$	- \$	- \$	9,976	
9/1/2020 \$	3,884 \$	(141) \$	- \$	(105) \$	- \$	- \$	- \$	- \$	13,824	
10/1/2020 \$	4,039 \$	(170) \$	- \$	(120) \$	- \$	- \$	- \$	- \$	17,813	
11/1/2020 \$	4,215 \$	(201) \$	- \$	(136) \$	- \$	- \$	- \$	- \$	21,964	
12/1/2020 \$	4,281 \$	(229) \$	- \$	(149) \$	- \$	- \$	- \$	- \$	26,164	
\$	26,439 \$	(991) \$	- \$	(716) \$	- \$	- \$	- \$	- \$		
							21.0000%			
							7.6646%			
					0.0000%	0.0000%				
					[P]	[Q]				
1/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	26,069	
2/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,973	
3/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,877	
4/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,782	
5/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,686	
6/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,591	
7/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,495	
8/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,399	
9/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,304	
10/1/2021 \$	- \$	(160) \$	- \$	(64) \$	- \$	- \$	- \$	- \$	25,208	
11/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,113	
12/1/2021 \$	- \$	(159) \$	- \$	(63) \$	- \$	- \$	- \$	- \$	25,017	
\$	- \$	(1,909) \$	- \$	(762) \$	- \$	- \$	- \$	- \$		
							21.0000%			
							7.6646%			

2018 & Fwd	
Federal Tax Rate	0.21
MN Tax Rate	0.098
MN Apportionment	0.989671
MI Tax Rate	0.06
MI Apportionment	0.000542

Minnesota Energy Resources Corporation
GUIC Revenue Requirement

Gas Stations Summary

Month	Book/Tax Differ	Bonus Effect	NOL	Deferred Tax	Deferred Tax	Deferred Tax	Federal	Proration	Federal	Federal	Monthly Prorated Balance
	Balance	Balance	Balance	Federal 21.0000%	Federal NOL 21.0000%	State 7.6646%	Def Tax Activity	Adjusted Activity Factor * Activity	13-Mo Ave DFIT Activity	Ave DFIT Activity Differ	Adjustment
12/1/2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		0			
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
6/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
7/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
8/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
9/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
10/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
11/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
12/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
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				^13-mo Ave Balance^			BOY FED ADIT	\$ -	\$ -	\$ -	
				21.0000%	21.0000%	7.6646%	Prorated ADIT>	\$ -	\$ -	<13-Mo Ave ADIT	\$ -
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1/1/2020	\$ (0)	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
2/1/2020	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
3/1/2020	\$ 0	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
4/1/2020	\$ (6)	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
5/1/2020	\$ (20)	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
6/1/2020	\$ (59)	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
7/1/2020	\$ (123)	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
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9/1/2020	\$ (312)	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
10/1/2020	\$ (431)	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
11/1/2020	\$ (567)	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
12/1/2020	\$ (716)	\$ -	\$ -	\$ -	\$ -	\$ -	2020 \$ -	\$ -	\$ -	\$ -	\$ -
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				^13-mo Ave Balance^			BOY FED ADIT	\$ -	\$ -	\$ -	
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1/1/2021	\$ (780)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
2/1/2021	\$ (843)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
3/1/2021	\$ (906)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
4/1/2021	\$ (970)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
5/1/2021	\$ (1,033)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
6/1/2021	\$ (1,097)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
7/1/2021	\$ (1,160)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
8/1/2021	\$ (1,223)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
9/1/2021	\$ (1,287)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
10/1/2021	\$ (1,351)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
11/1/2021	\$ (1,415)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
12/1/2021	\$ (1,478)	\$ -	\$ -	\$ -	\$ -	\$ -	2021 \$ -	\$ -	\$ -	\$ -	\$ -
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				^13-mo Ave Balance^			BOY FED ADIT	\$ -	\$ -	\$ -	
							Prorated ADIT>	\$ -	\$ -	<13-Mo Ave ADIT	\$ -

Exhibit E

Details Regarding MERC's Actual 2019
Relocation Projects Required to Accommodate
Public Projects in the Right-of-Way

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

Project Type	WBS Element	WR #	Project Name	Address	City	Description
Road	NA	2693363	GUIC - ROAD RELO SVC REPL W/NO MAIN	ASSORTED	ASSORTED	See service line tab for details
Road	Q-4605-000527	2702342	FM-GUIC ROAD PROJ - SOUTH HWY (JACKSON)	SOUTH HWY	JACKSON	Install ~3230' 6PE & 270' 2PE along South Hwy for county and city road project
Road	Q-4605-000798	2845221	RM-GUIC ROAD PROJECT-FARMINGTON	HICKORY, WESTVIEW, WESTWOOD, VARIOUS	FARMINGTON	~6,500' of 4PE/2PE due to City of Farmington road project
Road	Q-4605-000819	2858315	RO-GUIC RD PROJECT-HWY52 SP 5507-64 CHAT	HWY 52	CHATFIELD	Hwy 52 relocations for Chatfield Project SP 5507-64
Road	Q-4605-000820	2854727	RM-GUIC-ROAD PROJECT-EMPIRE TOWNSHIP	CHILI, CHEVELLE, 200TH ST	EMPIRE TOWNSHIP	GUIC - ROAD PROJECT - EMPIRE TOWNSHIP - 2019 IMPROVEMENTS
Road	Q-4605-000827	2854739	FM-GUIC ROAD PROJECT (WELCOME)	4TH, 3RD, 2ND, 1ST, CAMPBELL	WELCOME	GUIC - ROAD PROJECT - WELCOME - 2019 STREET IMPROVEMENTS
Road	Q-4605-000833	2858854	RM-GUIC ROAD PROJECT (LAKEVILLE)	HAMBURG AVE	LAKEVILLE	City of Lakeville road project
Road	Q-4605-000834	2847615	PC-GUIC I-35 AND CSAH 7 ROAD PROJECT	I-35 AND CSAH 7	PINE CITY	State road project
Road	Q-4605-000835	2856743	FM-GUIC ROAD PROJECT (ALBERT LEA)	NEWTON AVE	ALBERT LEA	8PE, 6PE, 2PE installation along Newton Ave and Washington Ave to abandon main in conflicts for road project
Road	Q-4605-000837	2866336	WA-GUIC ROAD RELO HWY 10 PROJECT WADENA	HWY 10	WADENA	INSTALL APPROX 3,400' OF 2" PE MAIN - GMAP (GUIC)
Road	Q-4605-000839	2795879	CL-GUIC NEW VALVE DUE TO 2016 ROAD	JON BROWN DR AND KENWOOD	MOOSE LAKE	CITY OF MOOSE LAKE ROAD PROJECT
Road	Q-4605-000840	2853058	RO-GUIC RD PROJECT-ELGIN 1ST ST SE	1ST ST SE	ELGIN	GMAP - Replace Main due to sidewalk improvements in the City of Elgin, MN.
Road	Q-4605-000847	2867745	RO-GUIC ROAD PROJECT (STEWARTVILLE)	3RD AND 4TH AVE SE	STEWARTVILLE	GUIC Rd Project Replacement for 3rd and 4th Ave SE in Stewartville
Road	Q-4605-000849	2868489	CL-GUIC HERMANTOWN DITCHING (LOWER MAIN)	W ARROWHEAD RD & MILLER TRUNK HWY	HERMANTOWN	City lowering ditch
Road	Q-4605-000850	2865956	FM-GUIC ROAD PROJECT WINNEBAGO(FAIRMONT)	WINNEBAGO AVE	FAIRMONT	GUIC - ROAD PROJECT - CITY OF FAIRMONT - WINNEBAGO
Road	Q-4605-000854	2867270	RM-GUIC ROAD PROJECT (SCOTT COUNTY 8)	COUNTY RD 8	RM-CEDAR LK-JORDAN SD T	GUIC - ROAD PROJECT - SCOTT COUNTY RD 8
Road	Q-4605-000858	2867669	WO-GUIC - ROAD PROJECT (ORTONVILLE)	VARIOUS	ORTONVILLE	Replace ~220' 2" PE main due to city road project - GUIC.
Road	Q-4605-000859	2869243	WO-GUIC ROAD PROJECT PHASE 2 (CANBY)	HAARFAGER AVE, 1ST ST S	CANBY	GUIC - ROAD PROJECT - CITY OF CANBY IMPROVEMENTS (PHASE 2, PHASE 1 completed in 2018 WR2738568)
Road	Q-4605-000860	2759897	WA-GUIC PARK RAPIDS ROUNDABOUT PHASE 1	HWY 71 AND CR 15	PARK RAPIDS	MN DOT PROJECT
Road	Q-4605-000861	2759899	WA- GUIC PARK RAPIDS ROUNDABOUT PHASE 2	HWY 71 AND CR 15	PARK RAPIDS	MN DOT PROJECT
Road	Q-4605-000862	2873572	CL-GUIC BIWABIK PROJECT-BIWABIK	WEST RAILROAD AVE	BIWABIK	Biwabik road project before blackout West Railroad.
Road	Q-4605-000863	2880204	RO-GUIC ROAD PROJECT-4TH ST SW TIE-IN	4TH ST SW	ROCHESTER	Tie in due to the 4th St SW Rd Project
Road	Q-4605-000864	2880805	RO-GUIC - ROAD PROJECT (RUSHFORD)	VARIOUS	RUSHFORD	Road project relocation in Rushford.
Road	Q-4605-000866	2873941	BM-GUIC WEST AVE ROAD PROJECT DETROIT LK	WEST AVE	DETROIT LAKES	Detroit Lakes City project. Water and sewer improvements.
Road	Q-4605-000867	2866533	BM-GUIC RELOC MAIN CSAH 15 AND TH 7	CSAH 15 AND TH 71	BEMIDJI	County Road Project
Road	Q-4605-000868	2843073	FM-GUIC-ROAD PROJECT(ALBERT LEA STABLES)	740TH AVE, ITASCA, ELM, VARIOUS	ALBERT LEA	Replacing old steel during road project, replacing to the 60# gas vs 12# for pressure help at the end of the line.
Road	Q-4605-000871	2885063	RO-GUIC ROAD PROJECT-1ST AVE SE PHASE 2	1ST AVE SE	ROCHESTER	Relocation along 1st Ave SE
Road	Q-4605-000873	2806931	RM-GUIC ROAD PROJECT (DAKOTA 50-23)	CSAH 50 (CEDAR TO HOLYOKE)	LAKEVILLE	Dakota County. 6" PE Valve at Highview
Road	Q-4605-000881	2883559	BM-GUIC WILLOW ST AND ROOSEVELT RD DL	WILLOW ST AND ROOSEVELT RD	BEMIDJI	City road project
Road	Q-4605-000889	2890685	WA-GUIC. COUNTY RD 4 ROAD PROJECT	BIRCH	WADENA	Install 75' of 2" steel and 235' of 2" PE main
Road	Q-4605-000890	2891281	RO-GUIC - ROAD PROJECT (MANTORVILLE)	VARIOUS	MANTORVILLE	2019 Mantorville Road Project unlocateable replacement.
Road	Q-4605-000891	2888591	PC-GUIC ROAD PROJECT NORTH BRANCH WATER	400TH ST, FLETCHER AND FLINK AVE	NORTH BRANCH	RELOCATE 6"PE FOR CITY PROJECT
Road	Q-4605-000904	2878628	PC-GUIC HWY 95-HEMMINGWAY ROUNDABOUT	HWY 95	PINE CITY	Removed main from proposed construction of a roundabout
Road	Q-4605-000906	2892699	CL-GUIC WATER AND SEWER PROJECT CALUMET	6TH AVE AND MORGAN AVE	CALUMET	Install 1,370' of 2" PE Main - GMAP (GUIC)
Road	Q-4605-000908	2893325	CL- GUIC GRAND RAPIDS 2019 STREET IMPROV	BLOCK 19 ALLY	GRAND RAPIDS	City Alley Project between Pokegama and W 3rd Ave
Road	Q-4605-000911	2866452	WO-GUIC - ROAD PROJECT (TRACY)	VARIOUS	TRACY	Replacing ~1460' of PE & WS in various sections due to road project conflicts
Road	Q-4605-000918	2899094	RM-GUIC ROAD PROJECT(CREDIT RIVER TWNSP)	NEVADA AVE	CREDIT RIVER TOWNSHIP	Replace ~1,205' PE main due to Township Road Project
Road	Q-4605-000919	2899053	RO-GUIC RD PROJECT-CSAH 9 RELOCATIONS	CSAH 9	ROCHESTER	Relocations due to road work along CSAH 9 in Rochester. (SP 055-609-019)
Road	Q-4605-000922	2898628	CL-GUIC 13TH ST REHAB PROJECT CHISHOLM	13TH ST NW AND 5TH AVE NW	CHISHOLM	Chisholm 13th ST NW and 5th Ave NW City water and sewer project.
Road	Q-4605-000923	2900934	WO-GUIC - ROAD PROJECT (LAMBERTON)	3RD AVE W & S FIR ST	LAMBERTON	GUIC - ROAD PROJECT - CITY OF LAMBERTON 2019-2020 IMPROVEMENTS
Road	Q-4605-000924	2901828	RO-GUIC - ROAD PROJECT (SPRING GROVE)	1ST ST NW	SPRING GROVE	Relocations along 1st St NW in Spring Grove
Road	Q-4605-000926	2902533	RM-GUIC - BONAIRE PATH EAST (ROSEMOUNT)	BONAIRE PATH	ROSEMOUNT	CITY OF ROSEMOUNT - BONAIRE PATH RECONSTRUCTION
Road	Q-4605-000927	2882688	RO-GUIC - ROAD PROJECT (HWY 30 RUSHFORD)	STATE HIGHWAY 30	RUSHFORD	Replace ~1,220' 2" PE main due to SP 2305-29 TH 30 in Rushford
Road	Q-4605-000931	2902309	RO-GUIC - ROAD PROJECT (ZUMBROTA)	EAST AVE	ZUMBROTA	Replace ~745' PE main for road project in Zumbrota
Road	Q-4605-000935	2901894	WA-GUIC SEBEKA CSAH 12 PROJECT	CSAH 12 I (MINNESOTA AVE)	SEBEKA	SAP 080-612-011
Road	Q-4605-000936	2901982	RM-GUIC - QUARRY ROAD (ROSEMOUNT)	QUARRY ROAD	EAGAN	Pothole current main to verify if 10WS (90#), 8WS (50#), & 2 - 2PE (50#) are in conflict for County Project 28-56
Road	Q-4605-000945	2900909	WA-GUIC HWY 32 AND MARK BLVD ROAD PROJ	HWY 32 AND MARK BLVD	THIEF RIVER FALLS	State road project
Road	Q-4605-000946	2901589	PC-GUIC ROAD PROJECT FAIRFIELD AVE RUSH	CSAH 39-FAIRFIELD AVE	RUSH CITY	County Road Project
Road	Q-4605-000947	2906367	PC-GUIC 2019 PINE CITY STREET PROJECT	WOODPECKER RIDGE	PINE CITY	INSTALL APPROX 2500' OF 2" PE MAIN - GMAP
Road	Q-4605-000970	2902297	WO-GUIC HWY 75 REPLACE (CANBY)	TH 75 & 180TH AVE	CANBY	GUIC replacement ~625' 4" STL.
Road	Q-4605-000971	2914229	CL-GUIC CHISHOLM ALLEY ROAD PROJECT	6TH ST SW AND 5TH AVE SW	CHISHOLM	City of Chisholm alley project
Road	Q-4605-000976	2907282	RM-GUIC ROAD PROJECT DONALD AVE (EAGAN)	DONALD AVENUE	ROSEMOUNT	GUIC - ROAD PROJECT - CITY OF EAGAN - DONALD AVE
Road	Q-4605-000982	2918108	CL-CO RD 130 RELOCATE 2 PE MAIN RANIER	CO RD 130	RANIER	County Road Project
Road	Q-4605-000987	2919228	PC-W 1ST ST RECONSTRUCTION ROAD PROJECT	W 1ST ST	RUSH CITY	STREET PROJECT
Road	Q-4605-000988	2921253	BM-HANNAH AVE AND 30TH ST NW. CITY STREE	HANNAH AVE AND 30TH ST NW	BEMIDJI	City of Bemidji Street Project
Road	Q-4605-001010	2928644	CL-GUIC CLOQUET ROAD PROJECT WASHINGTON	22ND ST AND WASHINGTON	CLOQUET	Cloquet City Road Project
Road	Q-4605-001011	2925309	FM-GUIC ROAD PROJECT CLAUSEN(ALBERT LEA)	CLAUSEN AVE	ALBERT LEA	GUIC road project replace ~1,775' 2" PE main.
Road	Q-4605-001016	2930877	BM-GUIC E WILLOW AND MADISON AVE	E WILLOW AND MADISON	DETROIT LAKES	REPLACE 320' OF 4" STEEL AND 160' 2" STEEL SHALLOW
Road	Q-4605-001017	2931395	RO-GUIC ROAD PROJECT HILL AVE(WANAMINGO)	HILL AVENUE	WANAMINGO	GUIC road project install ~490' 2" PE main
Road	Q-4605-001027	2932810	WA-GUIC 4TH ST AND LABREE	4TH ST AND LABREE	THIEF RIVER FALLS	ABANDON 129' OF 1.25" STEEL MAIN
Road	Q-4605-001028	2933216	RO- GUIC RD PROJECT- 2ND ST NE (KASSON)	2ND AVENUE NE	KASSON	Retire 2" WS gas main due to storm water project.
Road	Q-4605-001033	2935892	RM-GUIC-ROAD PROJ. SP1904-31(TH50)	220TH ST E (TH50)	EMPIRE TOWNSHIP	SP1904-31 (EMERGENCY PROJ) Relocate ~800' 2PE for emergency project for MnDOT.
Road	Q-4605-001060	2937180	RO-GUIC RD PR N LINE ST (WYKOFF)	NORTH LINE ST	WYKOFF	Install 2" PE to replace 2" PE main placed in 1993 due to road project
Road	Q-4605-001063	2940404	RO-GUIC 15AVE NW CLVRT RELOC (ROCHESTER)	15TH AVE NW	ROCHESTER	Install ~350' of 2"PE main due to culvert relocation.
Road	Q-4605-001067	2945323	BM-GUIC RANDOLPH AND HIGHLAND	RANDOLPH AND HIGHLAND	DETROIT LAKES	Abandon intersection ~400'. Return and install ~250' of 6" PE and 150' 4" PE
Road	Q-4605-001083	2948401	RO-GUIC EYOTA ALLEY- 1ST ST SE (EYOTA)	EYOTA ALLEY	EYOTA	Alley between Center and South Ave relocation due to grading and repaving.
Road	Q-4605-001088	2950597	RO-GUIC 2ND AVE. NW (BYRON)	2ND STREET	BYRON	Install 4" PE to replace steel
Road	Q-4605-001096	2953542	RO-GUIC RED WING ST (KENYON)	RED WING AVE	KENYON	Install ~300 4PE to replace ~300' 4WS
Road	Q-4605-001101	2953515	BM-GUIC MINNESOTA AND 3RD ST NW	MINNESOTA AND 3RD ST NW	BEMIDJI	City sewer an alley project.
Road	Q-4605-001105	2954360	WA-GUIC WADENA BUISNESS PARK SEWER AND W	HOMECREST AVE SE AND COUNTY ROAD 100	WADENA	City of Wadena Sewer and water project.
Road	Q-4605-001119	2965491	RO-GUIC 14TH ST SE (ZUMBROTA)	14TH	ZUMBROTA	Replace main due to depth across 14th St SE Zumbrota
Road	Q-4605-001126	2967815	RO-GUIC 16TH ST NE KASSON (KASSON)	16TH ST	KASSON	Relocate main due to road project (SAP 240-109-001)
Road	Q-4605-001137	2973444	RO-ROAD PROJECT STEWARTVILLE- 398 10THNW	398 NW 10TH ST	STEWARTVILLE	Retire ~65' of 2" Steel
Road	Q-4605-001146	2975380	RO - GUIC - CITY OF WANAMINGO - TALL GRA	9TH ST	WANAMINGO	Abandon ~165' of main due to park expansion
Road	Q-4605-001167	2989825	RO-GUIC-BENIKE ST RR CROSSING/RD PROJECT	BENIKE ST	LEWISTON	Install 4" PE RR Crossing as an extension of the 2018 Rd project along 1st, 2nd, and Benike St
	Total					

Project Type	WBS Element	WR #	Project Name	Governmental Entity	Const Complete Date	Total Main Footage	Main Installation Cost	Main Internal Labor Cost	Main Removal Cost	Total Main Cost
Road	NA	2693363	GUIC - ROAD RELO SVC REPL W/NO MAIN	ASSORTED	VARIOUS	-	\$ -	\$ -	\$ -	\$ -
Road	Q-4605-000527	2702342	FM-GUIC ROAD PROJ - SOUTH HWY (JACKSON)	Jackson County	6/3/2019	3,186	\$ 154,479.24	\$ 136.03	\$ 300.12	\$ 154,915.39
Road	Q-4605-000798	2845221	RM-GUIC ROAD PROJECT-FARMINGTON	City of Farmington	10/22/2019	6,555	\$ 163,489.23	\$ 144.03	\$ -	\$ 163,633.26
Road	Q-4605-000819	2858315	RO-GUIC RD PROJECT-HWY52 SP 5507-64 CHAT	MNDOT	9/9/2019	14,370	\$ 430,450.81	\$ 49,575.77	\$ -	\$ 480,026.58
Road	Q-4605-000820	2854727	RM-GUIC-ROAD PROJECT-EMPIRE TOWNSHIP	Empire Township	5/31/2019	2,940	\$ 68,003.08	\$ 59.88	\$ 240.09	\$ 68,303.05
Road	Q-4605-000827	2854739	FM-GUIC ROAD PROJECT (WELCOME)	City of Welcome	6/21/2019	3,394	\$ 151,638.05	\$ 133.51	\$ 2,250.95	\$ 154,022.51
Road	Q-4605-000833	2858854	RM-GUIC ROAD PROJECT (LAKEVILLE)	City of Lakeville	7/1/2019	5,462	\$ 239,736.39	\$ 4,275.77	\$ -	\$ 244,012.16
Road	Q-4605-000834	2847615	PC-GUIC I-35 AND CSAH 7 ROAD PROJECT	MNDOT	5/13/2019	559	\$ 12,182.59	\$ 8.53	\$ 270.11	\$ 12,461.23
Road	Q-4605-000835	2856743	FM-GUIC ROAD PROJECT (ALBERT LEA)	City of Albert Lea	10/7/2019	2,783	\$ 262,360.50	\$ 1,588.09	\$ -	\$ 263,948.59
Road	Q-4605-000837	2866336	WA-GUIC ROAD RELO HWY 10 PROJECT WADENA	MNDOT	9/16/2019	3,418	\$ 47,677.45	\$ 47.63	\$ 408.29	\$ 48,133.37
Road	Q-4605-000839	2795879	CL-GUIC NEW VALVE DUE TO 2016 ROAD	City of Moose Lake	7/9/2019	2	\$ 1,167.57	\$ 0.82	\$ -	\$ 1,168.39
Road	Q-4605-000840	2853058	RO-GUIC RD PROJECT-ELGIN 1ST ST SE	City of Elgin	4/18/2019	475	\$ 41,811.55	\$ 29.27	\$ -	\$ 41,840.82
Road	Q-4605-000847	2867745	RO-GUIC ROAD PROJECT (STEWARTVILLE)	City of Stewartville	7/19/2019	6,508	\$ 173,935.07	\$ 4,385.55	\$ 720.30	\$ 179,040.92
Road	Q-4605-000849	2868489	CL-GUIC HERMANTOWN DITCHING (LOWER MAIN)	City of Hermantown	8/13/2019	4	\$ 2,880.84	\$ 2.02	\$ -	\$ 2,882.86
Road	Q-4605-000850	2865956	FM-GUIC ROAD PROJECT WINNEBAGO (FAIRMONT)	City of Fairmont	10/28/2019	3,040	\$ 84,734.35	\$ 136.59	\$ 1,513.09	\$ 86,384.03
Road	Q-4605-000854	2867270	RM-GUIC ROAD PROJECT (SCOTT COUNTY 8)	Scott County	7/19/2019	2,291	\$ 58,708.52	\$ 44.52	\$ -	\$ 58,753.04
Road	Q-4605-000858	2867669	WO-GUIC - ROAD PROJECT (ORTONVILLE)	City of Ortonville	5/29/2019	207	\$ 4,692.00	\$ 3.28	\$ 240.09	\$ 4,935.37
Road	Q-4605-000859	2869243	WO-GUIC ROAD PROJECT PHASE 2 (CANBY)	City of Canby	6/21/2019	275	\$ 15,660.90	\$ 10.96	\$ 810.33	\$ 16,482.19
Road	Q-4605-000860	2759897	WA-GUIC PARK RAPIDS ROUNDABOUT PHASE 1	MNDOT	10/5/2019	2,152	\$ (11,412.41)	\$ (10,585.84)	\$ -	\$ (21,998.25)
Road	Q-4605-000861	2759899	WA- GUIC PARK RAPIDS ROUNDABOUT PHASE 2	MNDOT	7/1/2019	2,370	\$ 60,161.47	\$ 140.65	\$ 690.29	\$ 60,992.41
Road	Q-4605-000862	2873572	CL-GUIC BIWABIK PROJECT-BIWABIK	City of Biwabik	4/25/2019	359	\$ 6,887.01	\$ 4.82	\$ -	\$ 6,891.83
Road	Q-4605-000863	2880204	RO-GUIC ROAD PROJECT-4TH ST SW TIE-IN	City of Rochester	4/15/2019	27	\$ 3,445.62	\$ 17,318.17	\$ -	\$ 20,763.79
Road	Q-4605-000864	2880805	RO-GUIC - ROAD PROJECT (RUSHFORD)	City of Rushford	6/24/2019	4,849	\$ 111,524.62	\$ 98.21	\$ 510.22	\$ 112,133.05
Road	Q-4605-000866	2873941	BM-GUIC WEST AVE ROAD PROJECT DETROIT LK	City of Detroit Lakes	10/24/2019	5,183	\$ 134,778.94	\$ 118.69	\$ 1,038.43	\$ 135,936.06
Road	Q-4605-000867	2866533	BM-GUIC RELOC MAIN CSAH 15 AND TH 7	Beltrami County	5/31/2019	466	\$ 16,134.82	\$ 11.29	\$ 270.11	\$ 16,416.22
Road	Q-4605-000868	2843073	FM-GUIC-ROAD PROJECT(ALBERT LEA STABLES)	City of Albert Lea	6/21/2019	7,973	\$ 190,414.26	\$ 167.52	\$ -	\$ 190,581.78
Road	Q-4605-000871	2885063	RO-GUIC ROAD PROJECT-1ST AVE SE PHASE 2	City of Rochester	9/23/2019	646	\$ 44,592.89	\$ 555.42	\$ -	\$ 45,148.31
Road	Q-4605-000873	2806931	RM-GUIC ROAD PROJECT (DAKOTA 50-23)	Dakota County	11/12/2019	-	\$ 177,027.69	\$ 3,076.16	\$ 600.24	\$ 180,704.09
Road	Q-4605-000881	2883559	BM-GUIC WILLOW ST AND ROOSEVELT RD DL	City of Bemidji	6/3/2019	2,799	\$ 182,122.79	\$ 14,283.75	\$ 44,295.89	\$ 240,702.43
Road	Q-4605-000889	2890685	WA-GUIC COUNTY RD 4 ROAD PROJECT	Wadena County	5/8/2019	177	\$ 4,881.81	\$ 3.42	\$ 270.11	\$ 5,155.34
Road	Q-4605-000890	2891281	RO-GUIC - ROAD PROJECT (MANTORVILLE)	City of Mantorville	5/28/2019	1,078	\$ 24,114.49	\$ 2,625.67	\$ -	\$ 26,740.16
Road	Q-4605-000891	2880591	PC-GUIC ROAD PROJECT NORTH BRANCH WATER	City of North Branch	5/31/2019	1,717	\$ 92,323.93	\$ 233.18	\$ 840.37	\$ 93,397.48
Road	Q-4605-000904	2878628	PC-GUIC HWY 95-HEMMINGWAY ROUNDABOUT	MNDOT	6/12/2019	236	\$ 6,208.38	\$ 4.35	\$ 540.22	\$ 6,752.92
Road	Q-4605-000906	2892699	CL-GUIC WATER AND SEWER PROJECT CALUMET	City of Calumet	7/8/2019	1,355	\$ 29,460.65	\$ 20.62	\$ -	\$ 29,481.27
Road	Q-4605-000908	2893325	CL-GUIC GRAND RAPIDS 2019 STREET IMPROV	City of Grand Rapids	6/20/2019	688	\$ 26,178.24	\$ 1,230.02	\$ 540.22	\$ 27,948.48
Road	Q-4605-000911	2866452	WO-GUIC - ROAD PROJECT (TRACY)	City of Tracy	8/13/2019	1,213	\$ 48,337.96	\$ 33.79	\$ 1,512.64	\$ 49,884.39
Road	Q-4605-000918	2899094	RM-GUIC ROAD PROJECT(CREDIT RIVER TWPNSP)	Credit River Township	7/22/2019	1,223	\$ 25,618.65	\$ 17.94	\$ 480.18	\$ 26,116.77
Road	Q-4605-000919	2899053	RO-GUIC RD PROJECT-CSAH 9 RELOCATIONS	MNDOT	11/5/2019	7,278	\$ 469,123.01	\$ 22,961.97	\$ -	\$ 492,084.98
Road	Q-4605-000922	2898628	CL-GUIC 13TH ST REHAB PROJECT CHISHOLM	City of Chisholm	6/14/2019	2,178	\$ 42,820.20	\$ 29.97	\$ 270.11	\$ 43,120.28
Road	Q-4605-000923	2900934	WO-GUIC - ROAD PROJECT (LAMBERTON)	City of Lamberton	6/11/2019	85	\$ 4,519.10	\$ 3.36	\$ -	\$ 4,522.46
Road	Q-4605-000924	2901828	RO-GUIC - ROAD PROJECT (SPRING GROVE)	City of Spring Grove	8/2/2019	1,160	\$ 39,070.41	\$ 722.44	\$ -	\$ 39,792.85
Road	Q-4605-000926	2902533	RM-GUIC - BONAIRE PATH EAST (ROSEMOUNT)	City of Rosemount	6/14/2019	820	\$ 14,547.11	\$ 10.18	\$ -	\$ 14,557.29
Road	Q-4605-000927	2882688	RO-GUIC - ROAD PROJECT (HWY 30 RUSHFORD)	MNDOT	7/18/2019	-	\$ 25,906.68	\$ 18.14	\$ 360.15	\$ 26,284.97
Road	Q-4605-000931	2902309	RO-GUIC - ROAD PROJECT (ZUMBROTA)	City of Zumbrota	8/3/2019	964	\$ 48,654.95	\$ 1,827.37	\$ -	\$ 50,482.32
Road	Q-4605-000935	2901894	WA-GUIC SEBEKA CSAH 12 PROJECT	MNDOT	6/13/2019	586	\$ 11,214.71	\$ 7.85	\$ 270.11	\$ 11,492.67
Road	Q-4605-000936	2901982	RM-GUIC - QUARRY ROAD (ROSEMOUNT)	Dakota County	6/11/2019	685	\$ 39,520.47	\$ 27.51	\$ -	\$ 39,547.98
Road	Q-4605-000945	2900909	WA-GUIC HWY 32 AND MARK BLVD ROAD PROJ	MNDOT	7/31/2019	374	\$ 11,636.58	\$ 8.15	\$ 270.11	\$ 11,914.84
Road	Q-4605-000946	2901589	PC-GUIC ROAD PROJECT FAIRFIELD AVE RUSH	Chisago County	6/17/2019	333	\$ 6,100.75	\$ 4.27	\$ 270.11	\$ 6,375.13
Road	Q-4605-000947	2906367	PC-GUIC 2019 PINE CITY STREET PROJECT	City of Pine City	9/16/2019	3,445	\$ 87,610.33	\$ 10,211.38	\$ -	\$ 97,821.71
Road	Q-4605-000970	2902297	WO-GUIC HWY 75 REPLACE (CANBY)	MNDOT	10/7/2019	774	\$ 155,003.41	\$ 9,845.44	\$ -	\$ 164,848.85
Road	Q-4605-000971	2914229	CL-GUIC CHISHOLM ALLEY ROAD PROJECT	City of Chisholm	7/23/2019	390	\$ 8,135.24	\$ 5.71	\$ -	\$ 8,140.95
Road	Q-4605-000976	2907282	RM-GUIC ROAD PROJECT DONALD AVE (EAGAN)	City of Eagan	10/31/2019	2,564	\$ 53,314.90	\$ 684.58	\$ 720.52	\$ 54,720.00
Road	Q-4605-000982	2918108	CL-CO RD 130 RELOCATE 2 PE MAIN RANIER	Itasca County	7/2/2019	140	\$ 3,352.55	\$ 2.35	\$ 270.11	\$ 3,625.01
Road	Q-4605-000987	2919228	PC-W 1ST ST RECONSTRUCTION ROAD PROJECT	City of Rush City	7/29/2019	23	\$ 7,931.32	\$ 5.55	\$ 816.33	\$ 8,753.20
Road	Q-4605-000988	2921253	BM-HANNAH AVE AND 30TH ST NW CITY STREE	City of Bemidji	7/26/2019	187	\$ 4,266.82	\$ 2.99	\$ -	\$ 4,269.81
Road	Q-4605-001010	2928644	CL-GUIC CLOQUET ROAD PROJECT WASHINGTON	Elgin Township	7/22/2019	20	\$ 2,650.46	\$ 1.88	\$ 408.17	\$ 3,060.51
Road	Q-4605-001011	2925309	FM-GUIC ROAD PROJECT CLAUSEN (ALBERT LEA)	City of Albert Lea	7/30/2019	1,316	\$ 30,653.46	\$ 22.26	\$ 240.09	\$ 30,915.81
Road	Q-4605-001016	2930877	BM-GUIC E WILLOW AND MADISON AVE	City of Detroit Lakes	8/12/2019	456	\$ 23,867.31	\$ 16.92	\$ 1,128.47	\$ 25,012.70
Road	Q-4605-001017	2931395	RO-GUIC ROAD PROJECT HILL AVE(WANAMINGO)	City of Wanamingo	8/19/2019	542	\$ 11,232.36	\$ 8.06	\$ -	\$ 11,240.42
Road	Q-4605-001027	2932810	WA-GUIC 4TH ST AND LABREE	City of Thief River Falls	8/12/2019	-	\$ 871.19	\$ 0.61	\$ -	\$ 871.80
Road	Q-4605-001028	2933216	RO-GUIC RD PROJECT- 2ND ST NE (KASSON)	City of Kasson	8/26/2019	-	\$ 1,469.95	\$ 360.80	\$ 360.15	\$ 2,190.90
Road	Q-4605-001033	2935892	RM-GUIC-ROAD PROJ. SP1904-31(THSSO)	MNDOT	8/12/2019	447	\$ 15,138.31	\$ 12.18	\$ 240.09	\$ 15,390.58
Road	Q-4605-001060	2937180	RO-GUIC RD PR N LINE ST (WYKOFF)	Fillmore County	11/17/2019	3,602	\$ 71,521.97	\$ 7,125.20	\$ 277.66	\$ 78,924.83
Road	Q-4605-001063	2940404	RO-GUIC 15AVE NW CLVRT RELOC (ROCHESTER)	City of Rochester	9/30/2019	335	\$ 11,455.01	\$ 10.83	\$ 720.41	\$ 12,186.25
Road	Q-4605-001067	2945323	BM-GUIC RANDOLPH AND HIGHLAND	City of Detroit Lakes	10/7/2019	683	\$ 25,488.05	\$ 24.97	\$ 567.21	\$ 26,080.23
Road	Q-4605-001083	2948401	RO-GUIC EYOTA ALLEY- 1ST ST SE (EYOTA)	City of Eyota	9/30/2019	312	\$ 9,675.24	\$ 9.67	\$ 360.26	\$ 10,045.17
Road	Q-4605-001088	2950597	RO-GUIC 2ND AVE. NW (BYRON)	City of Byron	10/7/2019	646	\$ 24,318.02	\$ 616.37	\$ 510.37	\$ 25,444.76
Road	Q-4605-001096	2953542	RO-GUIC RED WING ST (KENYON)	City of Kenyon	11/8/2019	295	\$ 28,605.12	\$ 7,095.06	\$ 879.09	\$ 36,579.27
Road	Q-4605-001101	2953515	BM-GUIC MINNESOTA AND 3RD ST NW	City of Bemidji	10/14/2019	248	\$ 14,537.63	\$ 14.54	\$ 510.37	\$ 15,062.54
Road	Q-4605-001105	2954360	WA-GUIC WADENA BUSINESS PARK SEWER AND W	City of Wadena	9/23/2019	-	\$ 2,001.18	\$ 2.00	\$ -	\$ 2,003.18
Road	Q-4605-001119	2965491	RO-GUIC 14TH ST SE (ZUMBROTA)	City of Zumbrota	10/21/2019	92	\$ 8,995.63	\$ 9.90	\$ -	\$ 9,905.53
Road	Q-4605-001126	2967815	RO-GUIC 16TH ST NE KASSON (KASSON)	City of Kasson	10/14/2019	127	\$ 2,633.97	\$ 2.63	\$ -	\$ 2,636.60
Road	Q-4605-001137	2973444	RO-ROAD PROJECT STEWARTVILLE- 398 10THNW	Olmsted County	10/30/2019	-	\$ 4,869.94	\$ 765.28	\$ -	\$ 5,635.22
Road	Q-4605-001146	2975380	RO - GUIC - CITY OF WANAMINGO - TALL GRA	City of Wanamingo	11/4/2019	-	\$ 1,070.21	\$ 177.53	\$ -	\$ 1,247.74
Road	Q-4605-001167	2989825	RO-GUIC-BENIKE ST RR CROSSING/RD PROJECT	City of Lewiston	12/1/2019	252	\$ 22,093.22	\$ 5,861.36	\$ -	\$ 27,954.58
	Total					121,339	\$ 4,433,186.69	\$ 158,457.34	\$ 67,792.18	\$ 4,659,436.21

Project Type	WBS Element	WR #	Project Name	Number of Service Lines	Total Service Line Footage	Service Install Cost	Total Project Cost	Notes
Road	NA	2693363	GUIC - ROAD RELO SVC REPL W/NO MAIN	19	2,301	\$ 59,472.05	\$ 59,472.05	
Road	Q-4605-000527	2702342	FM-GUIC ROAD PROJ - SOUTH HWY (JACKSON)	4	533	\$ 10,255.68	\$ 165,171.07	
Road	Q-4605-000798	2845221	RM-GUIC ROAD PROJECT-FARMINGTON	82	5,526	\$ 158,883.85	\$ 322,517.11	
Road	Q-4605-000819	2858315	RO-GUIC RD PROJECT-HWY52 SP 5507-64 CHAT	61	6,113	\$ 139,170.33	\$ 619,196.91	
Road	Q-4605-000820	2854727	RM-GUIC-ROAD PROJECT-EMPIRE TOWNSHIP	42	3,165	\$ 94,683.24	\$ 162,986.29	
Road	Q-4605-000827	2854739	FM-GUIC ROAD PROJECT (WELCOME)	5	183	\$ 7,301.12	\$ 161,323.63	
Road	Q-4605-000833	2858854	RM-GUIC ROAD PROJECT (LAKEVILLE)	12	992	\$ 26,310.99	\$ 270,323.15	
Road	Q-4605-000834	2847615	PC-GUIC I-35 AND CSAH 7 ROAD PROJECT	0	-	\$ -	\$ 12,461.23	
Road	Q-4605-000835	2856743	FM-GUIC ROAD PROJECT (ALBERT LEA)	2	347	\$ 6,557.00	\$ 270,505.59	
Road	Q-4605-000837	2866336	WA-GUIC ROAD RELO HWY 10 PROJECT WADENA	10	2,293	\$ 43,629.79	\$ 91,763.16	
Road	Q-4605-000839	2795879	CL-GUIC NEW VALVE DUE TO 2016 ROAD	0	-	\$ -	\$ 1,168.39	
Road	Q-4605-000840	2853058	RO-GUIC RD PROJECT-ELGIN 1ST ST SE	0	-	\$ -	\$ 41,840.82	
Road	Q-4605-000847	2867745	RO-GUIC ROAD PROJECT (STEWARTVILLE)	50	1,994	\$ 75,444.71	\$ 254,485.63	
Road	Q-4605-000849	2868489	CL-GUIC HERMANTOWN DITCHING (LOWER MAIN)	0	-	\$ -	\$ 2,882.86	
Road	Q-4605-000850	2865956	FM-GUIC ROAD PROJECT WINNEBAGO(FAIRMONT)	13	1,041	\$ 25,501.23	\$ 111,885.26	
Road	Q-4605-000854	2867270	RM-GUIC ROAD PROJECT (SCOTT COUNTY 8)	1	-	\$ 1,594.79	\$ 60,347.83	
Road	Q-4605-000858	2867669	WO-GUIC - ROAD PROJECT (ORTONVILLE)	0	-	\$ -	\$ 4,935.37	
Road	Q-4605-000859	2869243	WO-GUIC ROAD PROJECT PHASE 2 (CANBY)	0	-	\$ -	\$ 16,482.19	
Road	Q-4605-000860	2759897	WA-GUIC PARK RAPIDS ROUNDABOUT PHASE 1	9	1,412	\$ 26,337.60	\$ 4,339.35	
Road	Q-4605-000861	2759899	WA- GUIC PARK RAPIDS ROUNDABOUT PHASE 2	0	-	\$ -	\$ 60,992.41	
Road	Q-4605-000862	2873572	CL-GUIC BIWABIK PROJECT-BIWABIK	2	89	\$ 2,770.64	\$ 9,662.47	
Road	Q-4605-000863	2880204	RO-GUIC ROAD PROJECT-4TH ST SW TIE-IN	0	-	\$ -	\$ 20,763.79	
Road	Q-4605-000864	2880805	RO-GUIC - ROAD PROJECT (RUSHFORD)	35	1,866	\$ 65,315.21	\$ 177,448.26	
Road	Q-4605-000866	2873941	BM-GUIC WEST AVE ROAD PROJECT DETROIT LK	71	6,302	\$ 175,357.83	\$ 311,293.89	
Road	Q-4605-000867	2866533	BM-GUIC RELOC MAIN CSAH 15 AND TH 7	0	-	\$ -	\$ 16,416.22	
Road	Q-4605-000868	2843073	FM-GUIC-ROAD PROJECT(ALBERT LEA STABLES)	36	2,591	\$ 60,661.83	\$ 251,243.61	
Road	Q-4605-000871	2885063	RO-GUIC ROAD PROJECT-1ST AVE SE PHASE 2	0	-	\$ -	\$ 45,148.31	
Road	Q-4605-000873	2806931	RM-GUIC ROAD PROJECT (DAKOTA 50-23)	0	-	\$ -	\$ 180,704.09	
Road	Q-4605-000881	2883559	BM-GUIC WILLOW ST AND ROOSEVELT RD DL	39	3,334	\$ 96,176.04	\$ 336,878.47	
Road	Q-4605-000889	2890685	WA-GUIC. COUNTY RD 4 ROAD PROJECT	2	62	\$ 2,043.45	\$ 7,198.79	
Road	Q-4605-000890	2891281	RO-GUIC - ROAD PROJECT (MANTORVILLE)	7	353	\$ 11,626.26	\$ 38,366.42	
Road	Q-4605-000891	2888591	PC-GUIC ROAD PROJECT NORTH BRANCH WATER	0	-	\$ -	\$ 93,397.48	
Road	Q-4605-000904	2879629	PC-GUIC HWY 95-HEMMINGWAY ROUNDABOUT	0	-	\$ -	\$ 6,752.92	
Road	Q-4605-000906	2892699	CL-GUIC WATER AND SEWER PROJECT CALUMET	16	1,320	\$ 41,061.18	\$ 70,542.45	
Road	Q-4605-000908	2893325	CL- GUIC GRAND RAPIDS 2019 STREET IMPROV	13	622	\$ 34,386.67	\$ 62,335.15	
Road	Q-4605-000911	2866452	WO-GUIC - ROAD PROJECT (TRACY)	0	-	\$ -	\$ 49,884.39	
Road	Q-4605-000918	2899094	RM-GUIC ROAD PROJECT(CREDIT RIVER TWNSP)	1	150	\$ 3,397.19	\$ 29,513.96	
Road	Q-4605-000919	2899053	RO-GUIC RD PROJECT-CSAH 9 RELOCATIONS	0	-	\$ -	\$ 492,084.98	
Road	Q-4605-000922	2898628	CL-GUIC 13TH ST REHAB PROJECT CHISHOLM	15	1,523	\$ 34,256.39	\$ 77,376.67	
Road	Q-4605-000923	2900934	WO-GUIC - ROAD PROJECT (LAMBERTON)	0	-	\$ -	\$ 4,522.46	
Road	Q-4605-000924	2901828	RO-GUIC - ROAD PROJECT (SPRING GROVE)	1	32	\$ 2,633.45	\$ 42,426.30	
Road	Q-4605-000926	2902533	RM-GUIC - BONAIRE PATH EAST (ROSEMOUNT)	1	800	\$ 9,512.96	\$ 24,070.25	
Road	Q-4605-000927	2882688	RO-GUIC - ROAD PROJECT (HWY 30 RUSHFORD)	0	-	\$ -	\$ 26,284.97	
Road	Q-4605-000931	2902309	RO-GUIC - ROAD PROJECT (ZUMBROTA)	5	558	\$ 16,302.80	\$ 66,785.12	
Road	Q-4605-000935	2901894	WA-GUIC SEBEKA CSAH 12 PROJECT	0	-	\$ -	\$ 11,492.67	
Road	Q-4605-000936	2901982	RM-GUIC - QUARRY ROAD (ROSEMOUNT)	0	-	\$ -	\$ 39,547.98	
Road	Q-4605-000945	2900909	WA-GUIC HWY 32 AND MARK BLVD ROAD PROJ	2	47	\$ 1,486.03	\$ 13,400.87	
Road	Q-4605-000946	2901589	PC-GUIC ROAD PROJECT FAIRFIELD AVE RUSH	0	-	\$ 0	\$ 6,375.13	
Road	Q-4605-000947	2906367	PC-GUIC 2019 PINE CITY STREET PROJECT	21	1,887	\$ 49,816.58	\$ 147,638.29	
Road	Q-4605-000970	2902297	WO-GUIC HWY 75 REPLACE (CANBY)	0	-	\$ 0	\$ 164,848.85	
Road	Q-4605-000971	2914229	CL-GUIC CHISHOLM ALLEY ROAD PROJECT	7	824	\$ 16,936.82	\$ 25,077.77	
Road	Q-4605-000976	2907282	RM-GUIC ROAD PROJECT DONALD AVE (EAGAN)	60	5,009	\$ 137,306.65	\$ 192,026.65	
Road	Q-4605-000982	2918108	CL-CO RD 130 RELOCATE 2 PE MAIN RANIER	0	-	\$ 0	\$ 3,625.01	
Road	Q-4605-000987	2919228	PC-W 1ST ST RECONSTRUCTION ROAD PROJECT	2	150	\$ 5,375.10	\$ 14,128.30	
Road	Q-4605-000988	2921253	BM-HANNAH AVE AND 30TH ST NW. CITY STREE	0	-	\$ 0	\$ 4,269.81	
Road	Q-4605-001010	2928644	CL-GUIC CLOQUET ROAD PROJECT WASHINGTON	0	-	\$ 0	\$ 3,060.51	
Road	Q-4605-001011	2925309	FM-GUIC ROAD PROJECT CLAUSEN(ALBERT LEA)	6	315	\$ 9,740.94	\$ 40,656.75	
Road	Q-4605-001016	2930877	BM-GUIC E WILLOW AND MADISON AVE	0	-	\$ 0	\$ 25,012.70	
Road	Q-4605-001017	2931395	RO-GUIC ROAD PROJECT HILL AVE(WANAMINGO)	0	-	\$ 0	\$ 11,240.42	
Road	Q-4605-001027	2932810	WA-GUIC 4TH ST AND LABREE	0	-	\$ 0	\$ 871.80	Retirement only
Road	Q-4605-001028	2933216	RO- GUIC RD PROJECT- 2ND ST NE (KASSON)	0	-	\$ 0	\$ 2,190.90	Retirement only
Road	Q-4605-001033	2935892	RM-GUIC-ROAD PROJ- SP1904-31(TH50)	0	-	\$ 0	\$ 15,390.58	
Road	Q-4605-001060	2937180	RO-GUIC RD PR N LINE ST (WYKOFF)	11	842	\$ 22,957.45	\$ 101,882.28	
Road	Q-4605-001063	2940404	RO-GUIC 15AVE NW CLVRT RELOC (ROCHESTER)	2	206	\$ 5,930.09	\$ 18,116.34	
Road	Q-4605-001067	2945323	BM-GUIC RANDOLPH AND HIGHLAND	0	-	\$ 0	\$ 26,080.23	
Road	Q-4605-001083	2948401	RO-GUIC EYOTA ALLEY- 1ST ST SE (EYOTA)	6	520	\$ 17,580.22	\$ 27,625.39	
Road	Q-4605-001088	2950597	RO-GUIC 2ND AVE. NW (BYRON)	6	231	\$ 9,287.15	\$ 34,731.91	
Road	Q-4605-001096	2953542	RO-GUIC RED WING ST (KENYON)	0	-	\$ 0	\$ 36,579.27	
Road	Q-4605-001101	2953515	BM-GUIC MINNESOTA AND 3RD ST NW	3	130	\$ 6,236.22	\$ 21,298.76	
Road	Q-4605-001105	2954360	WA-GUIC WADENA BUISNESS PARK SEWER AND W	0	-	\$ 0	\$ 2,003.18	Retirement only
Road	Q-4605-001119	2965491	RO-GUIC 14TH ST SE (ZUMBROTA)	0	-	\$ 0	\$ 9,905.53	
Road	Q-4605-001126	2967815	RO-GUIC 16TH ST NE KASSON (KASSON)	0	-	\$ 0	\$ 2,636.60	
Road	Q-4605-001137	2973444	RO-ROAD PROJECT STEWARTVILLE- 398 10THNW	0	-	\$ 0	\$ 5,635.22	Retirement only
Road	Q-4605-001146	2975380	RO - GUIC - CITY OF WANAMINGO - TALL GRA	0	-	\$ 0	\$ 1,247.74	Retirement only
Road	Q-4605-001167	2989825	RO-GUIC-BENIKE ST RR CROSSING/RD PROJECT	0	-	\$ 0	\$ 27,954.58	
Total				680	55,663	\$ 1,513,297.53	\$ 6,172,733.74	

EXHIBIT E – DETAILED DATA

Project Type	WBS Element	WR #	Project Name	Additions										Total Footage Installed
				1" Plastic	2" Plastic	4" Plastic	6" Plastic	8" Plastic	1" Steel	1-1/2" Steel	2" Steel	3" Steel	4" Steel	
Road	Q-4605-000527	2702342	FM-GUIC ROAD PROJ - SOUTH HWY (JACKSON)	3	303	6	2,874	0	0	0	0	0	0	3,186
Road	Q-4605-000798	2845221	RM-GUIC ROAD PROJECT-FARMINGTON	14	3,538	3,003	0	0	0	0	0	0	0	6,555
Road	Q-4605-000819	2858315	RO-GUIC RD PROJECT-HWY52 SP 5507-64 CHAT	5	10,052	4,313	0	0	0	0	0	0	0	14,370
Road	Q-4605-000820	2854727	RM-GUIC-ROAD PROJECT-EMPIRE TOWNSHIP	0	2,940	0	0	0	0	0	0	0	0	2,940
Road	Q-4605-000827	2854739	FM-GUIC ROAD PROJECT (WELCOME)	0	970	2,295	0	0	0	0	0	0	129	3,394
Road	Q-4605-000833	2858854	RM-GUIC ROAD PROJECT (LAKEVILLE)	2	1,634	45	3,781	0	0	0	0	0	0	5,462
Road	Q-4605-000834	2847615	PC-GUIC I-35 AND CSAH 7 ROAD PROJECT	0	559	0	0	0	0	0	0	0	0	559
Road	Q-4605-000835	2856743	FM-GUIC ROAD PROJECT (ALBERT LEA)	0	251	24	1,000	1,508	0	0	0	0	0	2,783
Road	Q-4605-000837	2866336	WA-GUIC ROAD RELO HWY 10 PROJECT WADENA	0	3418	0	0	0	0	0	0	0	0	3,418
Road	Q-4605-000839	2795879	CL-GUIC NEW VALVE DUE TO 2016 ROAD	0	2	0	0	0	0	0	0	0	0	2
Road	Q-4605-000840	2853058	RO-GUIC RD PROJECT-ELGIN 1ST ST SE	0	138	169	0	0	153	0	12	3	0	475
Road	Q-4605-000847	2867745	RO-GUIC ROAD PROJECT (STEWARTVILLE)	0	3,979	2,529	0	0	0	0	0	0	0	6,508
Road	Q-4605-000849	2868488	CL-GUIC HERMANTOWN DITCHING (LOWER MAIN)	2	2	0	0	0	0	0	0	0	0	4
Road	Q-4605-000850	2865956	FM-GUIC ROAD PROJECT WINNEBAGO(FAIRMONT)	0	572	2,468	0	0	0	0	0	0	0	3,040
Road	Q-4605-000854	2867270	RM-GUIC ROAD PROJECT (SCOTT COUNTY 8)	22	413	1,856	0	0	0	0	0	0	0	2,291
Road	Q-4605-000858	2867669	WO-GUIC - ROAD PROJECT (ORTONVILLE)	0	207	0	0	0	0	0	0	0	0	207
Road	Q-4605-000859	2869243	WO-GUIC ROAD PROJECT PHASE 2 (CANBY)	0	81	194	0	0	0	0	0	0	0	275
Road	Q-4605-000860	2759897	WA-GUIC PARK RAPIDS ROUNDABOUT PHASE 1	2	2	631	769	748	0	0	0	0	0	2,152
Road	Q-4605-000861	2759899	WA-GUIC PARK RAPIDS ROUNDABOUT PHASE 2	1	178	2,077	114	0	0	0	0	0	0	2,370
Road	Q-4605-000862	2873572	CL-GUIC BIWABIK PROJECT-BIWABIK	0	359	0	0	0	0	0	0	0	0	359
Road	Q-4605-000863	2880204	RO-GUIC ROAD PROJECT-4TH ST SW TIE-IN	1	26	0	0	0	0	0	0	0	0	27
Road	Q-4605-000864	2880805	RO-GUIC - ROAD PROJECT (RUSHFORD)	0	4,848	0	0	0	1	0	0	0	0	4,849
Road	Q-4605-000866	2873941	BM-GUIC WEST AVE ROAD PROJECT DETROIT LK	0	4,219	964	0	0	0	0	0	0	0	5,183
Road	Q-4605-000867	2866533	BM-GUIC RELOC MAIN CSAH 15 AND TH 7	0	4	462	0	0	0	0	0	0	0	466
Road	Q-4605-000868	2843073	FM-GUIC-ROAD PROJECT(ALBERT LEA STABLES)	2	3,667	4,304	0	0	0	0	3,667	0	0	7,973
Road	Q-4605-000871	2885063	RO-GUIC ROAD PROJECT-1ST AVE SE PHASE 2	0	0	646	0	0	0	0	0	0	0	646
Road	Q-4605-000873	2806931	RM-GUIC ROAD PROJECT (DAKOTA 50-23)	0	0	0	0	0	0	0	0	0	0	0
Road	Q-4605-000881	2883559	BM-GUIC WILLOW ST AND ROOSEVELT RD DL	0	805	10	1,061	923	0	0	0	0	0	2,799
Road	Q-4605-000889	2890685	WA-GUIC COUNTY RD 4 ROAD PROJECT	1	176	0	0	0	0	0	0	0	0	177
Road	Q-4605-000890	2891281	RO-GUIC - ROAD PROJECT (MANTORVILLE)	5	1,073	0	0	0	0	0	0	0	0	1,078
Road	Q-4605-000891	2888591	PC-GUIC ROAD PROJECT NORTH BRANCH WATER	1	0	19	1,697	0	0	0	0	0	0	1,717
Road	Q-4605-000904	2879629	PC-GUIC HWY 95-HEMMINGWAY ROUNDABOUT	0	236	0	0	0	0	0	0	0	0	236
Road	Q-4605-000906	2892699	CL-GUIC WATER AND SEWER PROJECT CALUMET	0	1,355	0	0	0	0	0	0	0	0	1,355
Road	Q-4605-000908	2893325	CL- GUIC GRAND RAPIDS 2019 STREET IMPROV	0	688	0	0	0	0	0	0	0	0	688
Road	Q-4605-000911	2866452	WO-GUIC - ROAD PROJECT (TRACY)	0	454	493	0	0	0	0	0	0	266	1,213
Road	Q-4605-000918	2899094	RM-GUIC ROAD PROJECT(CREDIT RIVER TWNSP)	2	791	430	0	0	0	0	0	0	0	1,223
Road	Q-4605-000919	2899053	RO-GUIC RD PROJECT-CSAH 9 RELOCATIONS	0	0	0	0	0	0	0	0	0	0	7,278
Road	Q-4605-000922	2898628	CL- GUIC 13TH ST REHAB PROJECT CHISHOLM	0	2,178	0	0	0	0	0	0	0	0	2,178
Road	Q-4605-000923	2900934	WO-GUIC - ROAD PROJECT (LAMBERTON)	0	0	85	0	0	0	0	0	0	0	85
Road	Q-4605-000924	2901828	RO-GUIC - ROAD PROJECT (SPRING GROVE)	1	1,159	0	0	0	0	0	0	0	0	1,160
Road	Q-4605-000926	2902533	RM-GUIC - BONAIRE PATH EAST (ROSEMOUNT)	0	820	0	0	0	0	0	0	0	0	820
Road	Q-4605-000927	2882688	RO-GUIC - ROAD PROJECT (HWY 30 RUSHFORD)	0	0	0	0	0	0	0	0	0	0	0
Road	Q-4605-000931	2902309	RO-GUIC - ROAD PROJECT (ZUMBROTA)	19	375	0	570	0	0	0	0	0	0	964
Road	Q-4605-000935	2901894	WA-GUIC SEBEKA CSAH 12 PROJECT	0	586	0	0	0	0	0	0	0	0	586
Road	Q-4605-000936	2901982	RM-GUIC - QUARRY ROAD (ROSEMOUNT)	0	0	0	685	0	0	0	0	0	0	685
Road	Q-4605-000945	2900909	WA-GUIC HWY 32 AND MARK BLVD ROAD PROJ	0	2	372	0	0	0	0	0	0	0	374
Road	Q-4605-000946	2901589	PC-GUIC ROAD PROJECT FAIRFIELD AVE RUSH	0	333	0	0	0	0	0	0	0	0	333
Road	Q-4605-000947	2906367	PC-GUIC 2019 PINE CITY STREET PROJECT	0	3,445	0	0	0	0	0	0	0	0	3,445
Road	Q-4605-000970	2902297	WO-GUIC HWY 75 REPLACE (CANBY)	0	0	0	0	0	0	0	0	0	774	774
Road	Q-4605-000971	2914229	CL-GUIC CHISHOLM ALLEY ROAD PROJECT	0	390	0	0	0	0	0	0	0	0	390
Road	Q-4605-000976	2907282	RM-GUIC ROAD PROJECT DONALD AVE (EAGAN)	0	2,564	0	0	0	0	0	0	0	0	2,564
Road	Q-4605-000982	2918108	CL-CO RD 130 RELOCATE 2 PE MAIN RANIER	0	140	0	0	0	0	0	0	0	0	140
Road	Q-4605-000987	2919228	PC-W 1ST ST RECONSTRUCTION ROAD PROJECT	0	0	0	0	0	0	0	23	0	0	23
Road	Q-4605-000988	2921253	BM-HANNAH AVE AND 30TH ST NW CITY STREE	0	187	0	0	0	0	0	0	0	0	187
Road	Q-4605-001010	2928644	CL-GUIC CLOQUET ROAD PROJECT WASHINGTON	0	0	0	0	0	0	0	20	0	0	20
Road	Q-4605-001011	2925309	FM-GUIC ROAD PROJECT CLAUSEN(ALBERT LEA)	0	1,316	0	0	0	0	0	0	0	0	1,316
Road	Q-4605-001016	2930877	BM-GUIC E WILLOW AND MADISON AVE	0	0	0	0	0	0	0	162	0	294	456
Road	Q-4605-001017	2931395	RO-GUIC ROAD PROJECT HILL AVE(WANAMINGO)	0	542	0	0	0	0	0	0	0	0	542
Road	Q-4605-001027	2932810	WA-GUIC 4TH ST AND LABREE	0	0	0	0	0	0	0	0	0	0	0
Road	Q-4605-001028	2933216	RO-GUIC RD PROJECT- 2ND ST NE (KASSON)	0	0	0	0	0	0	0	0	0	0	0
Road	Q-4605-001033	2935892	RM-GUIC-ROAD PROJ- SP1904-31(TH50)	2	445	0	0	0	0	0	0	0	0	447
Road	Q-4605-001060	2937180	RO-GUIC RD PR N LINE ST (WYKOFF)	0	0	0	0	0	0	0	0	0	0	3,602
Road	Q-4605-001063	2940404	RO-GUIC 15AVE NW CLVRT RELOC (ROCHESTER)	0	335	0	0	0	0	0	0	0	0	335
Road	Q-4605-001067	2945323	BM-GUIC RANDOLPH AND HIGHLAND	0	0	166	517	0	0	0	0	0	0	683
Road	Q-4605-001083	2948401	RO-GUIC EYOTA ALLEY- 1ST ST SE (EYOTA)	0	312	0	0	0	0	0	0	0	0	312
Road	Q-4605-001088	2950597	RO-GUIC 2ND AVE. NW (BYRON)	2	0	644	0	0	0	0	0	0	0	646
Road	Q-4605-001096	2953542	RO-GUIC RED WING ST (KENYON)	0	0	0	0	0	0	0	0	0	0	295
Road	Q-4605-001101	2953515	BM-GUIC MINNESOTA AND 3RD ST NW	0	22	226	0	0	0	0	0	0	0	248
Road	Q-4605-001105	2954360	WA-GUIC WADENA BUISNESS PARK SEWER AND W	0	0	0	0	0	0	0	0	0	0	0
Road	Q-4605-001119	2965491	RO-GUIC 14TH ST SE (ZUMBROTA)	0	0	0	0	0	0	0	92	0	0	92
Road	Q-4605-001126	2967815	RO-GUIC 16TH ST NE KASSON (KASSON)	27	100	0	0	0	0	0	0	0	0	127
Road	Q-4605-001137	2973444	RO-ROAD PROJECT STEWARTVILLE- 398 10THNW	0	0	0	0	0	0	0	0	0	0	0
Road	Q-4605-001146	2975380	RO - GUIC - CITY OF WANAMINGO - TALL GRA	0	0	0	0	0	0	0	0	0	0	0
Road	Q-4605-001167	2989825	RO-GUIC-BENIKE ST RR CROSSING/RD PROJECT	0	0	0	0	0	0	0	0	0	0	252
Total				114	63,191	27,785	13,714	3,179	154	0	309	3	1,463	121,339

			Retirements																			
Project Type	WBS Element	WR #	Project Name	3/4" Plastic	1" Plastic	1-1/4" Plastic	2" Plastic	3" Plastic	3" Plastic & Greater	4" Plastic	6" Plastic	1" Steel	1-1/4" Steel	1-1/2" Steel2	2" Steel	3" Steel	4" Steel	6" Steel	8" Steel	Total Footage Retired	Note	
Road	Q-4605-000527	2702342	FM-GUIC ROAD PROJ - SOUTH HWY (JACKSON)	0	0	0	-661	0	0	-2,834	-13	0	0	0	-752	0	0	0	0	-4,260		
Road	Q-4605-000798	2845221	RM-GUIC ROAD PROJECT-FARMINGTON	0	0	0	-6,446	0	0	-40	0	0	0	0	0	0	0	0	0	-6,486		
Road	Q-4605-000819	2858315	RO-GUIC RD PROJECT-HWY52 SP 5507-64 CHAT	0	0	0	-7,490	0	0	-139	0	0	0	0	-1,962	0	0	0	0	-9,591		
Road	Q-4605-000820	2854727	RM-GUIC-ROAD PROJECT-EMPIRE TOWNSHIP	0	0	0	-1,719	0	0	0	0	0	0	0	-1,174	0	0	0	0	-2,893		
Road	Q-4605-000827	2854739	FM-GUIC ROAD PROJECT (WELCOME)	0	0	0	0	0	0	0	0	0	0	0	-1,679	-1,743	0	0	0	-3,422		
Road	Q-4605-000833	2858854	RM-GUIC ROAD PROJECT (LAKEVILLE)	0	0	0	-5,038	0	0	-265	0	0	0	0	0	0	0	0	0	-5,303		
Road	Q-4605-000834	2847615	PC-GUIC I-35 AND CSAH 7 ROAD PROJECT	0	0	0	-497	0	0	-175	0	0	0	0	0	0	0	0	0	-672		
Road	Q-4605-000835	2856743	FM-GUIC ROAD PROJECT (ALBERT LEA)	0	0	0	-179	0	0	-451	-3	0	0	0	0	0	0	-26	-348	-727	-1,734	
Road	Q-4605-000837	2866336	WA-GUIC ROAD RELO HWY 10 PROJECT WADENA	0	0	0	-993	0	0	0	0	0	-147	-1,181	-3,215	-646	0	0	0	-6,182		
Road	Q-4605-000839	2795879	CL-GUIC NEW VALVE DUE TO 2016 ROAD	0	0	0	-4	0	0	0	0	0	0	0	0	0	0	0	0	-4		
Road	Q-4605-000840	2853058	RO-GUIC RD PROJECT-ELGIN 1ST ST SE	0	0	0	-4	-3	0	0	0	0	0	0	-69	-138	-11	0	0	-225		
Road	Q-4605-000847	2867745	RO-GUIC ROAD PROJECT (STEWARTVILLE)	0	0	0	0	0	0	-13	0	0	0	0	-3,095	0	-3	0	0	-3,111		
Road	Q-4605-000849	2868489	CL-GUIC HERMANTOWN DITCHING (LOWER MAIN)	0	0	0	-2	0	0	0	0	0	0	0	0	0	0	0	0	-2		
Road	Q-4605-000850	2865956	FM-GUIC ROAD PROJECT WINNEBAGO(FAIRMONT)	0	0	0	-79	0	0	-287	0	0	0	0	-1,330	0	-1,561	0	0	-3,257		
Road	Q-4605-000854	2867270	RM-GUIC ROAD PROJECT (SCOTT COUNTY 8)	0	0	0	-547	0	0	-1,438	0	0	0	0	0	0	0	0	0	-1,985		
Road	Q-4605-000858	2867669	WO-GUIC - ROAD PROJECT (ORTONVILLE)	0	0	0	-206	0	0	0	0	0	0	0	0	0	0	0	0	-206		
Road	Q-4605-000859	2869243	WO-GUIC ROAD PROJECT PHASE 2 (CANBY)	0	0	0	-80	0	0	-188	0	0	0	0	0	0	0	0	0	-268		
Road	Q-4605-000860	2759897	WA-GUIC PARK RAPIDS ROUNDABOUT PHASE 1	0	0	0	-152	0	0	-611	-872	0	0	0	0	0	0	0	-214	-1,849		
Road	Q-4605-000861	2759899	WA-GUIC PARK RAPIDS ROUNDABOUT PHASE 2	0	0	0	0	0	0	-2,222	-72	0	0	0	0	0	0	0	0	-2,294		
Road	Q-4605-000862	2873572	CL-GUIC BIWABIK PROJECT-BIWABIK	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Road	Q-4605-000863	2880204	RO-GUIC ROAD PROJECT-4TH ST SW TIE-IN	0	0	0	0	0	0	0	-6	0	0	0	0	0	0	0	0	-4		
Road	Q-4605-000864	2880805	RO-GUIC - ROAD PROJECT (RUSHFORD)	0	0	0	-324	0	0	0	0	0	0	0	-1,480	-1,210	0	0	0	-3,014		
Road	Q-4605-000866	2873941	BM-GUIC WEST AVE ROAD PROJECT DETROIT LK	0	0	0	-2	0	0	0	0	0	0	0	-5,837	-295	0	0	0	-6,134		
Road	Q-4605-000867	2866533	BM-GUIC RELOC MAIN CSAH 15 AND TH 7	0	0	0	0	0	0	-368	0	0	0	0	0	0	0	0	0	-368		
Road	Q-4605-000868	2843073	FM-GUIC-ROAD PROJECT(ALBERT LEA STABLES)	0	0	0	0	0	0	0	0	-87	0	-1,683	0	-6,516	0	0	0	-8,286		
Road	Q-4605-000871	2885063	RO-GUIC ROAD PROJECT-1ST AVE SE PHASE 2	0	0	0	0	0	0	-423	-104	0	0	0	0	0	0	0	0	-527		
Road	Q-4605-000873	2806931	RM-GUIC ROAD PROJECT (DAKOTA 50-23)	0	0	0	-1,845	0	0	-8	-166	0	0	0	0	0	0	0	0	-2,019		
Road	Q-4605-000881	2883559	BM-GUIC WILLOW ST AND ROOSEVELT RD DL	0	0	0	0	0	0	0	0	0	0	0	-1,350	0	-837	-1,218	0	-3,405		
Road	Q-4605-000889	2890685	WA-GUIC COUNTY RD 4 ROAD PROJECT	0	0	0	-17	0	0	0	0	0	0	0	-188	0	0	0	0	-205		
Road	Q-4605-000890	2891281	RO-GUIC - ROAD PROJECT (MANTORVILLE)	0	0	0	-792	0	0	0	0	0	0	0	0	0	0	0	0	-792		
Road	Q-4605-000891	2888591	PC-GUIC ROAD PROJECT NORTH BRANCH WATER	0	0	0	-19	0	0	-235	-1,354	0	0	0	0	0	0	0	0	-1,608		
Road	Q-4605-000904	2879629	PC-GUIC HWY 95-HEMMINGWAY ROUNDABOUT	0	0	0	-1,711	0	0	0	0	0	0	0	-6	0	0	0	0	-1,717		
Road	Q-4605-000906	2892699	CL-GUIC WATER AND SEWER PROJECT CALUMET	0	0	-926	0	0	0	0	0	0	-833	0	0	0	0	0	0	-1,759		
Road	Q-4605-000908	2893325	CL-GUIC GRAND RAPIDS 2019 STREET IMPROV	0	0	0	0	0	0	0	0	0	-55	0	-324	0	0	0	0	-379		
Road	Q-4605-000911	2866452	WO-GUIC - ROAD PROJECT (TRACY)	0	0	0	-200	0	0	0	0	0	0	0	0	-1	-686	0	0	-887		
Road	Q-4605-000918	2899094	RM-GUIC ROAD PROJECT(CREDIT RIVER TWNSP)	0	0	0	-801	0	0	0	0	0	0	0	0	0	0	0	0	-801		
Road	Q-4605-000919	2899053	RO-GUIC RD PROJECT-CSAH 9 RELOCATIONS	0	0	0	0	0	0	-198	0	0	0	0	-193	-6,763	-32	0	0	-7,186	Specific material and size information for additions is still pending.	
Road	Q-4605-000922	2898628	CL-GUIC 13TH ST REHAB PROJECT CHISHOLM	0	0	0	-1,694	0	0	0	0	-366	0	0	-142	0	0	0	0	-2,202		
Road	Q-4605-000923	2900934	WO-GUIC - ROAD PROJECT (LAMBERTON)	0	0	0	0	0	0	-86	0	0	0	0	0	0	0	0	0	-86		
Road	Q-4605-000924	2901828	RO-GUIC - ROAD PROJECT (SPRING GROVE)	0	0	0	-11	0	0	0	0	-48	0	0	-1,052	0	-48	0	0	-1,159		
Road	Q-4605-000926	2902533	RM-GUIC - BONAIRE PATH EAST (ROSEMOUNT)	0	0	0	-777	0	0	0	0	0	0	0	0	0	0	0	0	-777		
Road	Q-4605-000927	2882688	RO-GUIC - ROAD PROJECT (HWY 30 RUSHFORD)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Specific material and size information for additions and retirements is still pending.	
Road	Q-4605-000931	2902309	RO-GUIC - ROAD PROJECT (ZUMBROTA)	0	0	0	0	0	-25	-60	-15	0	0	0	-784	-673	0	0	0	-1,557		
Road	Q-4605-000935	2901894	WA-GUIC SEBEKA CSAH 12 PROJECT	0	0	0	-591	0	0	0	0	0	0	0	0	0	0	0	0	-591		
Road	Q-4605-000936	2901982	RM-GUIC - QUARRY ROAD (ROSEMOUNT)	0	0	0	0	0	0	-5	-20	0	0	0	0	0	0	0	0	-25		
Road	Q-4605-000945	2900909	WA-GUIC HWY 32 AND MARK BLVD ROAD PROJ	0	0	0	-2	0	0	-601	0	0	0	0	0	0	0	0	0	-603		
Road	Q-4605-000946	2901589	PC-GUIC ROAD PROJECT FAIRFIELD AVE RUSH	0	0	0	-82	0	0	0	0	0	0	0	0	0	0	0	0	-82		
Road	Q-4605-000947	2906367	PC-GUIC 2019 PINE CITY STREET PROJECT	0	0	0	-750	0	0	-22	0	0	0	0	-916	-304	-156	0	0	-2,148		
Road	Q-4605-000970	2902297	WO-GUIC HWY 75 REPLACE (CANBY)	0	0	0	0	0	0	0	0	0	0	0	0	0	-523	0	0	-523		
Road	Q-4605-000971	2914229	CL-GUIC CHISHOLM ALLEY ROAD PROJECT	0	0	0	-229	0	0	0	0	0	0	0	-49	0	0	0	0	-278		
Road	Q-4605-000976	2907282	RM-GUIC ROAD PROJECT DONALD AVE (EAGAN)	0	0	0	0	0	0	0	0	0	0	0	-2,570	0	0	0	0	-2,570		
Road	Q-4605-000982	2918108	CL-CO RD 130 RELOCATE 2 PE MAIN RANIER	0	0	0	-109	0	0	0	0	0	0	0	0	0	0	0	0	-109		
Road	Q-4605-000987	2919228	PC-W 1ST ST RECONSTRUCTION ROAD PROJECT	0	0	0	0	0	0	0	0	0	0	0	-40	0	0	0	0	-40		
Road	Q-4605-000988	2921253	BM-HANNAH AVE AND 30TH ST NW CITY STREE	0	0	0	-228	0	0	0	0	0	0	0	0	0	0	0	0	-228		
Road	Q-4605-001010	2928644	CL-GUIC CLOQUET ROAD PROJECT WASHINGTON	0	0	0	0	0	0	0	0	0	0	0	-28	0	0	0	0	-28		
Road	Q-4605-001011	2925309	FM-GUIC ROAD PROJECT CLAUSEN(ALBERT LEA)	0	0	0	-912	0	0	0	0	0	0	0	0	0	0	0	0	-912		
Road	Q-4605-001016	2930877	BM-GUIC E WILLOW AND MADISON AVE	0	0	0	0	0	0	0	0	0	0	0	-125	0	-293	0	0	-418		
Road	Q-4605-001017	2931395	RO-GUIC ROAD PROJECT HILL AVE(WANAMINGO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Road	Q-4605-001027	2932810	WA-GUIC 4TH ST AND LABREE	0	0	0	0	0	0	0	0	0	-146	0	0	0	0	0	0	-146		
Road	Q-4605-001028	2933216	RO- GUIC RD PROJECT- 2ND ST NE (KASSON)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Road	Q-4605-001033	2935892	RM-GUIC-ROAD PROJ- SP1904-31 (TH50)	0	0	0	-445	0	0	0	0	0	0	0	0	0	0	0	0	-445		
Road	Q-4605-001060	2937180	RO-GUIC RD PR N LINE ST (WYKOFF)	0	0	0	-2,047	0	0	0	0	0	0	0	0	0	0	0	0	-2,047	Specific material and size information for additions is still pending.	
Road	Q-4605-001063	2940404	RM-GUIC 15AVE NW CLVRT RELOC (ROCHESTER)	0	-1	0	-56	0	0	0	0	0	0	0	-406	0	0	0	0	-463		
Road	Q-4605-001067	2945323	BM-GUIC RANDOLPH AND HIGHLAND	0	0	0	0	0	0	-134	-554	0	0	0	0	0	0	0	0	-688		
Road	Q-4605-001083	2948401	RO-GUIC EYOTA ALLEY- 1ST ST SE (EYOTA)	0	0	0	0	0	0	0	0	0	0	0	-286	0	0	0	0	-286		
Road	Q-4605-001088	2950597	RO-GUIC 2ND AVE. NW (BYRON)	0	0	0	-4	0	0	0	0	-2	0	0	-15	-255	0	0	0	-276		
Road	Q-4605-001096	2953542	RO-GUIC RED WING ST (KENYON)	0	0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0	-1	Specific material and size information for additions is still pending.	
Road	Q-4605-001101	2953515	BM-GUIC MINNESOTA AND 3RD ST NW	0	0	0	0	0	0	0	0	0	0	0	-8	-213	0	0	0	-221		
Road	Q-4605-001105	2954360	WA-GUIC WADENA BUISNESS PARK SEWER AND W	0	0	0	0	0	0	0	0	0	0	0	-109	0	0	0	0	-109		
Road	Q-4605-001119	2965491	RO-GUIC 14TH ST SE (ZUMBROTA)	0	0	0	0	0	0	0	0	0	0	0	-77	0	0	0	0	-77		
Road	Q-4605-001126	2967815	RO-GUIC 16TH ST NE KASSON (KASSON)	0	0	0	-94	0	0	0	0	0	0									

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED
[PRIVATE DATA BEGINS. . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Road Project	2768891	2693363	93			LAKEVILLE	REPLACEMENT / 202ND ST PROJECT
Road Project	2768893	2693363	93			LAKEVILLE	REPLACEMENT / 202ND ST PROJECT
Road Project	2886296	2873941	97			DETROIT LAKES	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2878379	2873572	96			BIWABIK	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR/ ROAD PROJECT
Road Project	2878571	2873572	96			BIWABIK	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR/ ROAD PROJECT
Road Project	2886398	2873941	97			DETROIT LAKES	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2887343	2873941	97			DETROIT LAKES	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885130	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2884995	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885207	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2886304	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886126	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886139	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885121	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2884992	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2886333	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886143	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885270	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885024	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889801	2845221	93			FARMINGTON	guic project
Road Project	2886108	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886013	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885970	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2884951	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2884990	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2884991	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885082	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849372	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849368	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849373	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849367	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849374	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849371	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849370	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849369	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2887409	2750807	89			PARK RAPIDS	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 1000 MTR
Road Project	2885157	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886001	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2849365	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849361	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849639	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849637	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849362	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849363	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849360	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2887368	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2885023	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. LONG SIDE - 425/630 MTR
Road Project	2874117	2854739	94			FM-WELCOM-MRTNCTYW SD-C	GUIC ROAD REPL
Road Project	2874118	2854739	94			FM-WELCOM-MRTNCTYW SD-C	GUIC ROAD REPL
Road Project	2849629	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849626	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849366	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849359	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849354	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849356	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885872	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885873	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2891331	2890685	89			WADENA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2891333	2890685	89			WADENA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2886478	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885772	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885112	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885198	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885870	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885869	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885811	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849351	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849352	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849348	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849347	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849349	2845221	93			FARMINGTON	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885757	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885868	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885004	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860605	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL
Road Project	2860609	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR GUIC ROAD REPL
Road Project	2860607	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL
Road Project	2860610	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL
Road Project	2860185	2702342	94			FM-JACKSON-JKSNCYCL SD-C	MERE SERVICE REPLACEMENT
Road Project	2849383	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849622	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849619	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849624	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849670	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849625	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2885866	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885867	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2880973	2702342	94			FM-JACKSON-JKSNCYCL SD-C	GUIC ROAD REPL
Road Project	2860614	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR GUIC ROAD REPL
Road Project	2860611	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL
Road Project	2860612	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL
Road Project	2860618	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR GUIC ROAD REPL
Road Project	2860621	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR GUIC ROAD REPL
Road Project	2849666	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849671	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2885839	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885886	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849668	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849661	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849662	2845221	93			FARMINGTON	GUIC ROAD REPL

. . . PRIVATE DATA ENDS]

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Road Project	2849664	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849665	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849660	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849667	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849659	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849656	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849657	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849654	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849663	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849653	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2894924	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886486	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2860615	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860619	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860622	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2867700	2854739	94			FM-WELCOM-MRTNCTYW SD-C	GUIC ROAD REPL
Road Project	2885622	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885354	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885610	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885662	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849382	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2885672	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885734	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849621	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2885716	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849381	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849618	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2885647	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849379	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849380	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849674	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860601	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2860599	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2860597	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2865355	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2884973	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885047	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849376	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849377	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849676	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849677	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849678	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2889312	2759897	89			WDN-PARK RPOD-PARKRP SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889310	2759897	89			WDN-PARK RPOD-PARKRP SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889315	2759897	89			WDN-PARK RPOD-PARKRP SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849679	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2886481	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885356	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885615	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2886510	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849683	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849682	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2889314	2759897	89			WDN-PARK RPOD-PARKRP SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849681	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849680	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2886497	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849684	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849685	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2849687	2845221	93			FARMINGTON	GUIC ROAD REPL
Road Project	2889313	2759897	89			WDN-PARK RPOD-PARKRP SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2887472	2759897	89			PARK RAPIDS	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860593	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860579	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860592	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860580	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860591	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860578	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2887522	2883559	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2887518	2883559	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2900157	2883559	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2901774	2759897	89			WDN-PARK RPOD-PARKRP SD-C	MN-TEMP REPLACE SVC. LONG SIDE - 630 MTR
Road Project	2885345	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885346	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885347	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885340	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886837	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886847	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885341	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885388	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885343	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2884951	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886819	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885188	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860575	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860574	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860576	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860600	2854727	93			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2900171	2883559	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889338	2883559	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889259	2883559	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889341	2883559	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889320	2883559	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885348	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885344	2873941	97			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2860589	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860564	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860566	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860570	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860567	2854727	93			FARMINGTON	GUIC ROAD REPL
Road Project	2860571	2854727	93			FARMINGTON	GUIC ROAD REPL

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PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

[PRIVATE DATA BEGINS. . .]

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Road Project	2860573	2854727	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2860550	2854727	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2901225	2891281	95 R			RC-MANTORVILLE-KASSN-SD-C	ROAD PROJ/ET/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2901234	2891281	95 R			RC-MANTORVILLE-KASSN-SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2880979	2702342	94 C			FM-JICKSON-JKSNCITYCL SD-C	GUIC ROAD REPL
Road Project	2880980	2702342	94 C			FM-JICKSON-JKSNCITYCL SD-C	GUIC ROAD REPL
Road Project	2901772	2693363	89 C			WON-PARK RAPIDS-PARKWAY SD-C	INSTALL 180' OF 2" PE SERVICE - GSREP (GUIC)
Road Project	2890346	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2890274	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2887519	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2887517	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2890370	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2854952	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854958	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2889764	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860588	2854727	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2860594	2854727	93 C			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860596	2854727	93 C			FARMINGTON	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2860563	2854727	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2860585	2854727	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2860587	2854727	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2860560	2854727	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2860538	2854727	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2860583	2854727	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2885350	2873941	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2899077	2891281	95 C			RC-MANTORVILLE-KASSN-SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2887466	2759897	89 C			PARK RAPIDS	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE -
Road Project	2854970	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854990	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854995	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854993	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2889941	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889827	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2890088	2693363	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2890060	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2890147	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2890070	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2887382	2873941	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849675	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2875060	2854739	94 C			FM-WELCOM-MRTNCTYW SD-C	GUIC ROAD REPL
Road Project	2876059	2854739	94 C			FM-WELCOM-MRTNCTYW SD-C	GUIC ROAD REPL
Road Project	2890013	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889947	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889946	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2854955	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2898961	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2898896	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2898924	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2898915	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2849647	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2849375	2845221	93 C			FARMINGTON	ROAD PROJECT/ SERVICE REPLACEMENT
Road Project	2849645	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2849644	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2849642	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2898629	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	GUIC-ROAD REPLACEMENT
Road Project	2902447	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2898975	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2898885	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2898967	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889891	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2899251	2693363	95 C			RC-MANTORVILLE-KASSN-SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2899176	2891281	95 C			RC-MANTORVILLE-KASSN-SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2899277	2891281	95 C			RC-MANTORVILLE-KASSN-SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2899278	2891281	95 C			RC-MANTORVILLE-KASSN-SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2899279	2891281	95 C			RC-MANTORVILLE-KASSN-SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2849651	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2890036	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2902635	2873941	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2891840	2873941	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 1000 MTR
Road Project	2900880	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 1000 MTR
Road Project	2849636	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2849640	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2849634	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2849633	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2849632	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2849630	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2849627	2845221	93 C			FARMINGTON	GUIC ROAD REPL
Road Project	2854997	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854984	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854988	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854986	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854985	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854984	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854996	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854979	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854981	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854977	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854982	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854978	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854971	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2891845	2873941	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2854975	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854976	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2902693	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2902704	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2898980	2883559	97 C			BMJ-DETROITLK-DTRTLK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2854972	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2899921	2898628	96 C			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2899938	2898628	96 C			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2854949	2843073	94 C			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT

... PRIVATE DATA ENDS]

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Road Project	2854954	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854957	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854960	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2901442	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2900864	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2899948	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2900865	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2854945	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854948	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854938	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854941	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854944	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2901392	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2899968	2693363	96			CL-GRANDRAPIDS-GRNDR SD-C	GUIC TIE OVER; INSTALL 75' OF 2" PE SERVICE - GSREP
Road Project	2903275	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2900907	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 1000 MTR
Road Project	2889376	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2889370	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2889379	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2888946	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888422	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888678	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2908119	2902533	93			ROSEMOUNT	REPLACEMENT / MISC
Road Project	2900862	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2900849	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2854962	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854967	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2888894	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888902	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888907	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888321	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888921	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888356	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888731	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2900871	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2890941	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2855002	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2854999	2843073	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL/STABLES PROJECT
Road Project	2900990	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2902274	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2888548	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2889368	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2888695	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2889377	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2889378	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2900863	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2900897	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2899936	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2899928	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2903162	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889184	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2889618	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2889179	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2889346	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888996	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2888651	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2889082	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2889278	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889371	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2889339	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2889258	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2900902	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2900899	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2900891	2898628	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2888585	2880805	95			RC-RUSHFORD-RUSHFORDPTR SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2903874	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2886054	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885827	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886155	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2886174	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2904146	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886037	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885825	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886299	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2886319	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2885810	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885823	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885563	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2885564	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2904755	2693363	96			WORK TRAC - TRAC SD-C	GUIC ROAD REPL
Road Project	2903537	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 1000 MTR
Road Project	2886051	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885824	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2886052	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	28858315	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2910804	2892699	96			CL-CALUMET-GREENWAY SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2910830	2892699	96			CL-CALUMET-GREENWAY SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2915230	2892699	96			CL-CALUMET-GREENWAY SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2910824	2892699	96			CL-CALUMET-GREENWAY SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2915235	2892699	96			CL-CALUMET-GREENWAY SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2910797	2892699	96			CL-CALUMET-GREENWAY SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2910817	2892699	96			CL-CALUMET-GREENWAY SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2903524	2893325	96			CL-GRANDRAPIDS-GRNDR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2885555	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2885630	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2740284	2693363	96			RM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2916899	2693363	96			CL-GREENWAY-GREENWAY SD-T	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2899734	2858854	93			RM-LAKEVILLE-LAKEVILLE SD-V	GUIC ROAD REPL
Road Project	2885562	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2885759	2858315	95			RC-CHATFIELD-CHTFLD SD-C	GUIC ROAD PROJECT/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR

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Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Road Project	2918475	2880805	95			RC-RUSHFORD-RSHFRODPTD SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2918484	2880805	95			RC-RUSHFORD-RSHFRODPTD SD-C	RUSHFORD ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2918161	2914229	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2918174	2914229	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2918203	2914229	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. LONG SIDE - 425/630 MTR
Road Project	2923972	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2877256	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2877252	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2877255	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2877251	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2877247	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2877250	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2877259	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2918170	2914229	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2918215	2914229	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2918218	2914229	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2877254	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2923409	2865956	94			FM-FAIRMONT-FRIMNTARA SD-C	GUIC ROAD REPL
Road Project	2918237	2914229	96			CL-CHISHOLM-CHISHOLM SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2922593	2906370	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2922592	2906370	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2929152	2925309	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL
Road Project	2928860	2925309	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL
Road Project	2922643	2919228	98			RUSH CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2903058	2899094	93			RM-CR RIVER-LAKEVILL SD-T	REPLACEMENT / NAVADA AVE ROAD PROJECT
Road Project	2928867	2925309	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL
Road Project	2928865	2925309	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL
Road Project	2928862	2925309	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL
Road Project	2928864	2925309	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL
Road Project	2922594	2906370	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2916717	2906370	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2911404	2900909	89			THIEF RIVER FALLS	MN-TEMP GRU TIE-OVER 1" P NEW SERVICE
Road Project	2884947	2693363	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885000	2658315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2917479	2902309	95			RC-ZUMBRTA-ZMBRTMZPP SD-C	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2917619	2902309	95			RC-ZUMBRTA-ZMBRTMZPP SD-C	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2930176	2880805	95			RC-SPRINGGROVE-SPRGG SD-C	SPRING GROVE ROAD PROJECT/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2930170	2880805	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC / REPLACE SVC. W/ 1" SHORT - 250 MTR
Road Project	2884968	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2884969	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2884930	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2884702	2693363	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2917596	2902309	95			RC-ZUMBRTA-ZMBRTMZPP SD-C	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2921356	2901828	95			RC-SPRINGGROVE-SPRGG SD-C	Replace "35' 2" PE service due to 2019 City improvements road project.
Road Project	2919507	2880805	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2919050	2883559	97			RM-DETROIT-LA-TRITX SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2918053	2902309	95			RC-ZUMBRTA-ZMBRTMZPP SD-C	GUIC replacement "20' 2" PE service to grain dryer at 175 Main Street in Zumbrota.
Road Project	2917687	2902309	95			RC-ZUMBRTA-ZMBRTMZPP SD-C	ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885208	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885205	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885204	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885203	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2886123	2858315	95			RC-CHATFIELD-CHTFD SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 1000 MTR
Road Project	2914932	2906367	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2915361	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2915359	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2915363	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2915362	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2915360	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2919236	2907282	93			EAGAN	GUIC replacement "55' 2" PE service due to road project.
Road Project	2885799	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885828	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885847	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2885206	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2915358	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2915357	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2913517	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2913515	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2913516	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2913518	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2913519	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2914935	2906367	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2914936	2906367	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2922595	2906370	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2884833	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2884882	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2916716	2906370	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2912623	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2913512	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2913514	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2913513	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2913520	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2884863	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2885212	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2913509	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2910578	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2910581	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2910580	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2912624	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2912625	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2910579	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2884873	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2910576	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2910577	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2884695	2858315	95			RC-CHATFIELD-CHTFD SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2913521	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2910674	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917319	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2923431	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2925132	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT

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Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Road Project	2923412	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2919237	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2923413	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2919233	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917318	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917317	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2919234	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2919235	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2926233	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2925133	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917315	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917316	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2926235	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2925134	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2950383	2693363	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ROAD PROJECT/SERVICE REPLACEMENT
Road Project	2950380	2693363	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ROAD PROJECT/SERVICE REPLACEMENT
Road Project	2944889	2866336	89			WDN-WADENA-WDN DR CK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889176	2866336	89			WADENA	MN-TEMP REPLACE SVC. LONG SIDE - 425/630 MTR
Road Project	2889178	2866336	89			WADENA	MN-TEMP REPLACE SVC. LONG SIDE - 425 MTR
Road Project	2951985	2866336	89			WDN-WADENA-WDN DR CK SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2926490	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2915366	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2915364	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2888717	2693363	89			WADENA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2901766	2866336	89			WADENA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2926491	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2907694	2866336	89			WADENA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2889175	2866336	89			WADENA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 1000 MTR
Road Project	2926492	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917311	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917310	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917312	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917314	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2926494	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2926493	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2917313	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2926495	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2888713	2866336	89			WADENA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2901767	2866336	89			WADENA	MN-TEMP REPLACE SVC. LONG SIDE - 425 MTR
Road Project	2926236	2907282	93			EAGAN	REPLACEMENT / ROAD PROJECT
Road Project	2907749	2866336	89			WADENA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 1000 MTR
Road Project	2880170	2693363	94			FM-FAIRMONT-FRMNTARA SD-C	GUIC ROAD REPL
Road Project	2877260	2865956	94			FM-FAIRMONT-FRMNTARA SD-C	GUIC ROAD REPL
Road Project	2914933	2906367	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2916706	2906367	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2916704	2906367	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2916703	2906367	98			PINE CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2951737	2948401	95			RC-EYOTA-DOVEREYOTA SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2951734	2948401	95			RC-EYOTA-DOVEREYOTA SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2951735	2948401	95			RC-EYOTA-DOVEREYOTA SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2951736	2948401	95			RC-EYOTA-DOVEREYOTA SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2950894	2919228	98			RUSH CITY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2956187	2950597	95			RC-BYRON-BRYRON SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2956124	2950597	95			RC-BYRON-BRYRON SD-C	BYRON ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2956102	2950597	95			RC-BYRON-BRYRON SD-C	BYRON ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2922597	2906367	98			PINE CITY	GUIC ROAD REPL/SERVICE REPLACEMENT
Road Project	2956189	2693363	98			RC-BYRON-BRYRON SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2956126	2950597	95			RC-BYRON-BRYRON SD-C	BYRON ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2956188	2950597	95			RC-BYRON-BRYRON SD-C	GUIC ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2956125	2950597	95			RC-BYRON-BRYRON SD-C	BYRON ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2868465	2856743	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL
Road Project	2868463	2856743	94			FM-ALBT L-C-ALBT L SD	GUIC ROAD REPL
Road Project	2963899	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2961804	2953515	97			BMJ-BEMIDJI-BEMIDJI SD-C	GUIC REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2961541	2953515	97			BMJ-BEMIDJI-BEMIDJI SD-C	GUIC REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2961779	2693363	97			BMJ-BEMIDJI-BEMIDJI SD-C	GUIC REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2961781	2953515	97			BMJ-BEMIDJI-BEMIDJI SD-C	GUIC REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Road Project	2877257	2865956	94			FM-FAIRMONT-FRMNTARA SD-C	GUIC ROAD REPL
Road Project	2877253	2865956	94			FM-FAIRMONT-FRMNTARA SD-C	GUIC ROAD REPL
Road Project	2981178	2858854	93			LAKEVILLE	REPLACEMENT / GUIC ROAD REPL
Road Project	2986200	2867270	93			CREDIT RIVER TWP	REPLACEMENT / GUIC ROAD PROJECT SCOTT CO RD8
Road Project	2987447	2900909	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2963898	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2964797	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / SERVICE RETIREMENT
Road Project	2963941	2937180	95			RC-WYKOFF-C-KINGSLAND SD	CITY OF WYKOFF / WYKOFF ROAD PROJECT
Road Project	2963346	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2963337	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2963472	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2963345	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2963348	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2963460	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / SERVICE REPLACEMENT
Road Project	2963347	2937180	95			RC-WYKOFF-C-KINGSLAND SD	WYKOFF ROAD PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Road Project	2762052	2693363	93			EAGAN	Replace "230' 2" WS with 2" PE due to County road project on Lexington and Lone Oak.
Total							

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PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

[PRIVATE DATA BEGINS. . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Road Project	2768891	2693363	93		4/16/2019		4 1" and smaller	158 1/2" Plastic		61 \$	3,343.23
Road Project	2768893	2693363	93		4/16/2019		4 1" and smaller	90 1/2" Plastic		97 \$	2,713.15
Road Project	2886296	2873941	97		4/25/2019		4 1" and smaller	55 3/4" Steel		104 \$	1,762.70
Road Project	2878379	2873572	96		4/25/2019		4 1" and smaller	52 1/2" Plastic		148 \$	1,316.38
Road Project	2878571	2873572	96		4/25/2019		4 1" and smaller	37 1/2" Plastic		187 \$	1,454.26
Road Project	2886398	2873941	97		4/26/2019		4 1" and smaller	62 3/4" Steel		113 \$	1,880.39
Road Project	2887343	2873941	97		4/26/2019		4 1" and smaller	46 1/2" Steel		89 \$	1,982.36
Road Project	2885130	2873941	97		4/29/2019		4 1" and smaller	108 3/4" Steel		58 \$	2,803.89
Road Project	2884995	2858315	95		4/29/2019		4 1" and smaller	41 3/4" Steel		49 \$	1,047.67
Road Project	2885207	2858315	95		4/29/2019		4 1" and smaller	40 3/4" Steel		48 \$	1,071.83
Road Project	2886304	2873941	97		4/30/2019		4 1" and smaller	52 1/2" Plastic		- \$	1,746.10
Road Project	2886126	2873941	97		4/30/2019		4 1" and smaller	57 1/2" Plastic		15 \$	2,066.69
Road Project	2886139	2873941	97		4/30/2019		4 1" and smaller	51 3/4" Steel		51 \$	2,083.17
Road Project	2885121	2858315	95		4/30/2019		4 1" and smaller	61 3/4" Steel		99 \$	1,180.71
Road Project	2884992	2858315	95		4/30/2019		4 1" and smaller	21 3/4" Steel		127 \$	1,089.04
Road Project	2886333	2873941	97		5/1/2019		5 1" and smaller	92 3/4" Steel		62 \$	2,295.99
Road Project	2886143	2873941	97		5/1/2019		5 1" and smaller	125 1/2" Plastic		62 \$	2,796.03
Road Project	2886270	2873941	97		5/1/2019		5 1" and smaller	52 1/2" Plastic		- \$	1,562.12
Road Project	2885034	2873941	97		5/1/2019		5 1" and smaller	141 3/4" Steel		96 \$	3,306.68
Road Project	2889801	2845221	93		5/1/2019		5 1" and smaller	82 1/2" Plastic		51 \$	1,464.28
Road Project	2886108	2873941	97		5/2/2019		5 1" and smaller	145 3/4" Steel		60 \$	3,159.20
Road Project	2886013	2873941	97		5/2/2019		5 1" and smaller	52 1/2" Plastic		- \$	1,377.76
Road Project	2885970	2873941	97		5/2/2019		5 1" and smaller	133 3/4" Steel		82 \$	2,757.43
Road Project	2884994	2858315	95		5/2/2019		5 1" and smaller	63 3/4" Steel		144 \$	2,143.11
Road Project	2884990	2858315	95		5/2/2019		5 1" and smaller	51 3/4" Steel		30 \$	1,831.78
Road Project	2884991	2858315	95		5/2/2019		5 1" and smaller	42 3/4" Steel		131 \$	2,335.07
Road Project	2885082	2873941	97		5/3/2019		5 1" and smaller	44 3/4" Steel		96 \$	2,926.12
Road Project	2849372	2845221	93		5/3/2019		5 1" and smaller	92 1/2" Plastic		94 \$	2,269.51
Road Project	2849398	2845221	93		5/3/2019		5 1" and smaller	54 1/2" Plastic		52 \$	1,688.43
Road Project	2849373	2845221	93		5/3/2019		5 1" and smaller	89 1/2" Plastic		91 \$	2,247.92
Road Project	2849367	2845221	93		5/3/2019		5 1" and smaller	65 1/2" Plastic		62 \$	1,818.68
Road Project	2849374	2845221	93		5/3/2019		5 1" and smaller	89 1/2" Plastic		92 \$	2,247.16
Road Project	2849371	2845221	93		5/3/2019		5 1" and smaller	70 1/2" Plastic		74 \$	1,909.67
Road Project	2849370	2845221	93		5/3/2019		5 1" and smaller	60 1/2" Plastic		62 \$	1,759.07
Road Project	2849369	2845221	93		5/3/2019		5 1" and smaller	56 1/2" Plastic		53 \$	1,696.84
Road Project	2887499	2750897	89		5/3/2019		5 1" and smaller	92 1/2" Plastic		177 \$	1,883.47
Road Project	2885157	2873941	97		5/6/2019		5 1" and smaller	128 3/4" Steel		75 \$	3,187.85
Road Project	2886001	2873941	97		5/6/2019		5 1" and smaller	46 1/2" Plastic		- \$	1,152.22
Road Project	2849365	2845221	93		5/6/2019		5 1" and smaller	56 1/2" Plastic		60 \$	1,605.76
Road Project	2849361	2845221	93		5/6/2019		5 1" and smaller	55 1/2" Plastic		58 \$	1,665.80
Road Project	2849639	2845221	93		5/6/2019		5 1" and smaller	40 1/2" Plastic		43 \$	1,450.43
Road Project	2849637	2845221	93		5/6/2019		5 1" and smaller	42 1/2" Plastic		45 \$	1,516.08
Road Project	2849362	2845221	93		5/6/2019		5 1" and smaller	46 1/2" Plastic		49 \$	1,578.75
Road Project	2849363	2845221	93		5/6/2019		5 1" and smaller	64 1/2" Plastic		67 \$	1,843.59
Road Project	2849360	2845221	93		5/6/2019		5 1" and smaller	74 1/2" Plastic		76 \$	1,994.95
Road Project	2887368	2873941	97		5/6/2019		5 1" and smaller	65 3/4" Steel		118 \$	1,666.66
Road Project	2885023	2873941	97		5/6/2019		5 1" and smaller	102 1/2" Plastic		55 \$	2,614.30
Road Project	2874117	2854739	94		5/7/2019		5 1" and smaller	40 1/2" Plastic		50 \$	1,527.53
Road Project	2874118	2854739	94		5/7/2019		5 1" and smaller	22 1/2" Plastic		40 \$	1,072.63
Road Project	2849629	2845221	93		5/7/2019		5 1" and smaller	42 1/2" Plastic		44 \$	1,518.72
Road Project	2849626	2845221	93		5/7/2019		5 1" and smaller	42 1/2" Plastic		44 \$	1,515.48
Road Project	2849366	2845221	93		5/7/2019		5 1" and smaller	94 1/2" Plastic		91 \$	2,313.47
Road Project	2849359	2845221	93		5/7/2019		5 1" and smaller	46 1/2" Plastic		49 \$	1,570.57
Road Project	2849354	2845221	93		5/7/2019		5 1" and smaller	71 1/2" Plastic		78 \$	1,975.92
Road Project	2849356	2845221	93		5/7/2019		5 1" and smaller	121 1/2" Plastic		118 \$	2,725.01
Road Project	2885872	2873941	97		5/7/2019		5 1" and smaller	154 3/4" Steel		107 \$	3,189.24
Road Project	2885873	2873941	97		5/7/2019		5 1" and smaller	128 3/4" Steel		95 \$	2,964.77
Road Project	2891331	2890685	89		5/8/2019		5 1" and smaller	60 1/2" Plastic		45 \$	1,309.21
Road Project	2891333	2890685	89		5/8/2019		5 Tie over	2 1/2" Plastic		12 \$	734.24
Road Project	2886478	2873941	97		5/8/2019		5 1" and smaller	132 3/4" Steel		97 \$	3,212.80
Road Project	2885772	2873941	97		5/8/2019		5 1" and smaller	70 3/4" Steel		120 \$	2,432.11
Road Project	2885112	2873941	97		5/8/2019		5 1" and smaller	48 3/4" Steel		100 \$	2,033.49
Road Project	2885198	2873941	97		5/8/2019		5 1" and smaller	114 3/4" Steel		83 \$	4,490.77
Road Project	2885870	2873941	97		5/8/2019		5 1" and smaller	61 3/4" Steel		107 \$	2,263.08
Road Project	2885869	2873941	97		5/8/2019		5 1" and smaller	101 1/2" Plastic		53 \$	3,067.24
Road Project	2885811	2873941	97		5/8/2019		5 1" and smaller	100 3/4" Steel		38 \$	2,598.50
Road Project	2849351	2845221	93		5/9/2019		5 1" and smaller	55 1/2" Plastic		58 \$	1,728.40
Road Project	2849352	2845221	93		5/9/2019		5 1" and smaller	61 1/2" Plastic		64 \$	1,830.52
Road Project	2849348	2845221	93		5/9/2019		5 1" and smaller	50 1/2" Plastic		54 \$	1,613.77
Road Project	2849347	2845221	93		5/9/2019		5 1" and smaller	50 1/2" Plastic		53 \$	1,651.62
Road Project	2849349	2845221	93		5/9/2019		5 1" and smaller	64 1/2" Plastic		66 \$	1,807.27
Road Project	2885757	2873941	97		5/9/2019		5 1" and smaller	46 3/4" Steel		93 \$	999.78
Road Project	2885868	2873941	97		5/9/2019		5 1" and smaller	67 3/4" Steel		117 \$	2,236.00
Road Project	2885004	2873941	97		5/9/2019		5 1" and smaller	102 3/4" Steel		54 \$	2,917.56
Road Project	2860605	2854727	93		5/10/2019		5 1" and smaller	86 1/2" Plastic		90 \$	2,326.90
Road Project	2860609	2854727	93		5/10/2019		5 1" and smaller	57 1/2" Plastic		54 \$	1,888.50
Road Project	2860607	2854727	93		5/10/2019		5 1" and smaller	90 1/2" Plastic		87 \$	2,412.09
Road Project	2860610	2854727	93		5/10/2019		5 1" and smaller	101 1/2" Plastic		83 \$	2,559.94
Road Project	2860185	2702342	94		5/10/2019		5 1" and smaller	116 1/2" Plastic		99 \$	1,980.35
Road Project	2849383	2845221	93		5/10/2019		5 1" and smaller	36 1/2" Plastic		84 \$	1,403.92
Road Project	2849622	2845221	93		5/10/2019		5 1" and smaller	52 1/2" Plastic		90 \$	1,672.36
Road Project	2849619	2845221	93		5/10/2019		5 1" and smaller	46 1/2" Plastic		69 \$	1,581.12
Road Project	2849624	2845221	93		5/10/2019		5 1" and smaller	40 1/2" Plastic		86 \$	1,489.80
Road Project	2849670	2845221	93		5/10/2019		5 1" and smaller	42 1/2" Plastic		86 \$	1,480.87
Road Project	2849625	2845221	93		5/10/2019		5 1" and smaller	38 1/2" Plastic		42 \$	1,484.11
Road Project	2885866	2873941	97		5/10/2019		5 1" and smaller	80 3/4" Steel		127 \$	2,102.88
Road Project	2885867	2873941	97		5/13/2019		5 1" and smaller	80 3/4" Steel		125 \$	2,084.97
Road Project	2880973	2702342	94		5/13/2019		5 Tie over	1 1/2" Plastic		- \$	94.64
Road Project	2860614	2854727	93		5/13/2019		5 1" and smaller	61 1/2" Plastic		61 \$	1,965.24
Road Project	2860611	2854727	93		5/13/2019		5 1" and smaller	90 1/2" Plastic		91 \$	2,446.93
Road Project	2860612	2854727	93		5/13/2019		5 1" and smaller	100 1/2" Plastic		104 \$	2,639.50
Road Project	2860618	2854727	93		5/13/2019		5 1" and smaller	57 1/2" Plastic		53 \$	1,851.42
Road Project	2860621	2854727	93		5/13/2019		5 1" and smaller	56 1/2" Plastic		48 \$	1,917.01
Road Project	2849666	2845221	93		5/13/2019		5 1" and smaller	96 1/2" Plastic		93 \$	2,347.55
Road Project	2849671	2845221	93		5/13/2019		5 1" and smaller	44 1/2" Plastic		47 \$	1,520.28
Road Project	2885639	2873941	97		5/13/2019		5 1" and smaller	53 3/4" Steel		96 \$	2,245.15
Road Project	2885686	2873941	97		5/13/2019		5 1" and smaller	67 3/4" Steel		117 \$	2,370.96
Road Project	2849668	2845221	93		5/13/2019		5 1" and smaller	47 1/2" Plastic		50 \$	1,598.37
Road Project	2849661	2845221	93		5/13/2019		5 1" and smaller	45 1/2" Plastic		48 \$	1,564.69
Road Project	2849662	2845221	93		5/13/2019		5 1" and smaller	48 1/2" Plastic		52 \$	1,610.35

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PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Road Project	2849664	2845221	93	[REDACTED]	5/13/2019	5	1" and smaller	114	1/2" Plastic	110	2,629.35
Road Project	2849665	2845221	93		5/13/2019	5	1" and smaller	40	1/2" Plastic	43	1,486.10
Road Project	2849660	2845221	93		5/13/2019	5	1" and smaller	95	1/2" Plastic	91	2,325.85
Road Project	2849667	2845221	93		5/13/2019	5	1" and smaller	32	1/2" Plastic	35	1,366.83
Road Project	2849659	2845221	93		5/13/2019	5	1" and smaller	45	1/2" Plastic	49	1,564.69
Road Project	2849656	2845221	93		5/13/2019	5	1" and smaller	95	1/2" Plastic	91	2,329.09
Road Project	2849657	2845221	93		5/13/2019	5	1" and smaller	44	1/2" Plastic	44	1,482.11
Road Project	2849654	2845221	93		5/13/2019	5	1" and smaller	43	1/2" Plastic	46	1,475.46
Road Project	2849663	2845221	93		5/13/2019	5	1" and smaller	63	1/2" Plastic	66	1,828.77
Road Project	2849653	2845221	93		5/13/2019	5	1" and smaller	96	1/2" Plastic	92	2,354.03
Road Project	2894924	2844610	95		5/13/2019	5	1" and smaller	253	1/2" Plastic	621	4,978.13
Road Project	2886486	2873941	97		5/14/2019	5	1" and smaller	104	3/4" Steel	160	2,179.09
Road Project	2860615	2854727	93		5/14/2019	5	1" and smaller	105	1/2" Plastic	108	2,893.32
Road Project	2860619	2854727	93		5/14/2019	5	1" and smaller	124	1/2" Plastic	125	2,944.39
Road Project	2860622	2854727	93		5/14/2019	5	1" and smaller	110	1/2" Plastic	115	2,724.66
Road Project	2867700	2854739	94		5/14/2019	5	1" and smaller	3	1" Steel	100	914.20
Road Project	2885622	2873941	97		5/14/2019	5	1" and smaller	99	1" Plastic	50	2,325.20
Road Project	2885354	2873941	97		5/14/2019	5	1" and smaller	27	3/4" Steel	68	1,065.44
Road Project	2885610	2873941	97		5/14/2019	5	1" and smaller	47	1/2" Plastic	-	2,244.65
Road Project	2885662	2873941	97		5/14/2019	5	1" and smaller	130	3/4" Steel	80	3,652.78
Road Project	2849382	2845221	93		5/14/2019	5	1" and smaller	92	1/2" Plastic	45	2,297.04
Road Project	2885672	2873941	97		5/14/2019	5	1" and smaller	49	3/4" Steel	109	1,762.66
Road Project	2885734	2873941	97		5/14/2019	5	1" and smaller	68	3/4" Steel	118	1,734.56
Road Project	2849621	2845221	93		5/14/2019	5	1" and smaller	110	1/2" Plastic	51	2,572.43
Road Project	2885716	2873941	97		5/14/2019	5	1" and smaller	62	3/4" Steel	112	1,910.67
Road Project	2849381	2845221	93		5/14/2019	5	1" and smaller	100	1/2" Plastic	55	2,422.04
Road Project	2849618	2845221	93		5/14/2019	5	1" and smaller	95	1/2" Plastic	51	2,345.94
Road Project	2885647	2873941	97		5/14/2019	5	1" and smaller	122	3/4" Steel	89	3,041.11
Road Project	2849379	2845221	93		5/14/2019	5	1" and smaller	92	1/2" Plastic	54	2,306.11
Road Project	2849380	2845221	93		5/14/2019	5	1" and smaller	46	1/2" Plastic	89	1,627.88
Road Project	2849674	2845221	93		5/14/2019	5	1" and smaller	68	1/2" Plastic	74	1,919.35
Road Project	2860601	2854727	93		5/15/2019	5	1" and smaller	88	3/4" Steel	90	2,015.68
Road Project	2860599	2854727	93		5/15/2019	5	1" and smaller	28	3/4" Steel	35	1,251.06
Road Project	2860597	2854727	93		5/15/2019	5	1" and smaller	83	3/4" Steel	78	2,448.91
Road Project	2885355	2873941	97		5/15/2019	5	1" and smaller	63	3/4" Steel	106	1,695.82
Road Project	2884973	2873941	97		5/15/2019	5	1" and smaller	208	3/4" Steel	57	6,489.64
Road Project	2885047	2873941	97		5/15/2019	5	1" and smaller	110	3/4" Steel	145	1,531.96
Road Project	2849376	2845221	93		5/15/2019	5	1" and smaller	44	1/2" Plastic	89	73.57
Road Project	2849377	2845221	93		5/15/2019	5	1" and smaller	44	1/2" Plastic	88	2,095.75
Road Project	2849676	2845221	93		5/15/2019	5	1" and smaller	32	1/2" Plastic	38	1,940.98
Road Project	2849677	2845221	93		5/15/2019	5	1" and smaller	74	1/2" Plastic	78	2,205.89
Road Project	2849678	2845221	93		5/15/2019	5	1" and smaller	72	1/2" Plastic	76	2,195.98
Road Project	2889312	2759897	89		5/15/2019	5	1" and smaller	121	1/2" Plastic	156	2,897.97
Road Project	2889310	2759897	89		5/15/2019	5	1" and smaller	205	1/2" Plastic	235	4,241.42
Road Project	2889315	2759897	89		5/15/2019	5	1" and smaller	121	1/2" Plastic	151	3,009.04
Road Project	2849679	2845221	93		5/15/2019	5	1" and smaller	43	1/2" Plastic	47	2,229.70
Road Project	2886481	2873941	97		5/16/2019	5	1" and smaller	130	3/4" Steel	87	3,112.80
Road Project	2885356	2873941	97		5/16/2019	5	1" and smaller	103	1/2" Plastic	96	2,897.26
Road Project	2885615	2873941	97		5/16/2019	5	1" and smaller	66	3/4" Steel	106	1,042.47
Road Project	2886510	2873941	97		5/16/2019	5	1" and smaller	103	3/4" Steel	174	2,287.73
Road Project	2849683	2845221	93		5/16/2019	5	1" and smaller	148	1/2" Plastic	162	3,953.44
Road Project	2849682	2845221	93		5/16/2019	5	1" and smaller	121	1/2" Plastic	140	3,275.27
Road Project	2889314	2759897	89		5/16/2019	5	1" and smaller	127	1/2" Plastic	127	2,201.94
Road Project	2849681	2845221	93		5/16/2019	5	1" and smaller	41	1/2" Plastic	45	2,199.64
Road Project	2849680	2845221	93		5/16/2019	5	1" and smaller	44	1/2" Plastic	48	2,176.52
Road Project	2886497	2873941	97		5/17/2019	5	1" and smaller	124	3/4" Steel	86	2,891.71
Road Project	2849684	2845221	93		5/17/2019	5	1" and smaller	48	1/2" Plastic	52	1,984.03
Road Project	2849685	2845221	93		5/17/2019	5	1" and smaller	40	1/2" Plastic	50	1,446.74
Road Project	2849687	2845221	93		5/17/2019	5	1" and smaller	62	1/2" Plastic	72	1,827.19
Road Project	2889313	2759897	89		5/17/2019	5	1" and smaller	136	1/2" Plastic	166	3,200.80
Road Project	2887472	2759897	89		5/17/2019	5	1" and smaller	235	1/2" Plastic	175	2,851.64
Road Project	2860593	2854727	93		5/20/2019	5	1" and smaller	96	1/2" Plastic	96	2,590.41
Road Project	2860579	2854727	93		5/20/2019	5	1" and smaller	43	1/2" Plastic	46	1,844.08
Road Project	2860592	2854727	93		5/20/2019	5	1" and smaller	93	1/2" Plastic	94	2,607.80
Road Project	2860580	2854727	93		5/20/2019	5	1" and smaller	44	1/2" Plastic	45	1,315.55
Road Project	2860591	2854727	93		5/20/2019	5	1" and smaller	94	1/2" Plastic	90	2,525.62
Road Project	2860578	2854727	93		5/20/2019	5	1" and smaller	40	1/2" Plastic	50	1,692.57
Road Project	2887522	2883559	97		5/20/2019	5	1" and smaller	60	3/4" Steel	50	2,106.53
Road Project	2887518	2883559	97		5/20/2019	5	1" and smaller	110	3/4" Steel	105	2,884.64
Road Project	2900157	2883559	97		5/20/2019	5	1" and smaller	55	3/4" Steel	100	2,071.63
Road Project	2901774	2759897	89		5/20/2019	5	1" and smaller	133	1" Plastic	522	2,338.00
Road Project	2885345	2873941	97		5/20/2019	5	1" and smaller	118	1/2" Plastic	77	3,746.81
Road Project	2885346	2873941	97		5/20/2019	5	1" and smaller	97	1/2" Plastic	1	2,266.53
Road Project	2885347	2873941	97		5/20/2019	5	1" and smaller	130	3/4" Steel	82	3,493.43
Road Project	2885340	2873941	97		5/20/2019	5	1" and smaller	45	1/2" Plastic	-	1,828.45
Road Project	2886837	2873941	97		5/20/2019	5	1" and smaller	80	3/4" Steel	60	2,054.27
Road Project	2886847	2873941	97		5/20/2019	5	1" and smaller	107	3/4" Steel	100	2,069.43
Road Project	2885341	2873941	97		5/20/2019	5	1" and smaller	28	3/4" Steel	45	937.90
Road Project	2885388	2873941	97		5/20/2019	5	1" and smaller	38	3/4" Steel	45	973.22
Road Project	2885343	2873941	97		5/20/2019	5	1" and smaller	45	1/2" Plastic	-	1,355.01
Road Project	2884951	2873941	97		5/20/2019	5	1" and smaller	145	3/4" Steel	110	3,961.19
Road Project	2886819	2873941	97		5/20/2019	5	1" and smaller	69	3/4" Steel	65	1,655.42
Road Project	2885188	2873941	97		5/20/2019	5	1" and smaller	155	3/4" Steel	-	4,458.42
Road Project	2860575	2854727	93		5/20/2019	5	1" and smaller	61	1/2" Plastic	65	2,022.53
Road Project	2860574	2854727	93		5/20/2019	5	1" and smaller	56	1/2" Plastic	60	2,062.53
Road Project	2860576	2854727	93		5/20/2019	5	1" and smaller	51	1/2" Plastic	55	2,001.59
Road Project	2860600	2854727	93		5/20/2019	5	1" and smaller	99	1/2" Plastic	94	3,034.48
Road Project	2900171	2883559	97		5/21/2019	5	1" and smaller	70	3/4" Steel	20	1,227.23
Road Project	2889338	2883559	97		5/21/2019	5	1" and smaller	101	1/2" Plastic	40	3,351.85
Road Project	2889259	2883559	97		5/21/2019	5	1" and smaller	50	3/4" Steel	53	2,888.60
Road Project	2889341	2883559	97		5/21/2019	5	1" and smaller	94	3/4" Steel	92	3,025.24
Road Project	2889320	2883559	97		5/21/2019	5	1" and smaller	83	3/4" Steel	60	3,086.67
Road Project	2885348	2873941	97		5/21/2019	5	1" and smaller	122	3/4" Steel	82	2,696.08
Road Project	2885344	2873941	97		5/21/2019	5	1" and smaller	37	3/4" Steel	75	932.35
Road Project	2860589	2854727	93		5/21/2019	5	1" and smaller	89	1/2" Plastic	84	2,442.27
Road Project	2860564	2854727	93		5/21/2019	5	1" and smaller	55	1/2" Plastic	60	1,957.85
Road Project	2860566	2854727	93		5/21/2019	5	1" and smaller	55	1/2" Plastic	62	1,984.73
Road Project	2860570	2854727	93		5/21/2019	5	1" and smaller	109	1/2" Plastic	104	2,767.41
Road Project	2860567	2854727	93		5/21/2019	5	1" and smaller	48	1/2" Plastic	52	1,907.45
Road Project	2860571	2854727	93		5/21/2019	5	1" and smaller	55	1/2" Plastic	60	1,975.67

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[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Road Project	2860573	2854727	93		5/21/2019	5	1" and smaller	45	1/2" Plastic	50	\$ 1,831.37
Road Project	2860550	2854727	93		5/21/2019	5	1" and smaller	88	1/2" Plastic	84	\$ 2,427.05
Road Project	2901225	2891281	95		5/22/2019	5	1" and smaller	122	1/2" Plastic	122	\$ 2,704.65
Road Project	2901234	2891281	95		5/22/2019	5	1" and smaller	115	1/2" Plastic	5	\$ 2,994.16
Road Project	2880979	2702342	94		5/22/2019	5	1" and smaller	266	1" Steel	266	\$ 4,736.76
Road Project	2880980	2702342	94		5/22/2019	5	1" and smaller	150	1" Plastic	30	\$ 3,433.93
Road Project	2901772	2693363	89		5/22/2019	-		-			\$ 2,566.79
Road Project	2890346	2883559	97		5/22/2019	5	1" and smaller	75	3/4" Steel	73	\$ 1,888.18
Road Project	2890274	2883559	97		5/22/2019	5	1" and smaller	66	3/4" Steel	60	\$ 1,966.06
Road Project	2887519	2883559	97		5/22/2019	5	1" and smaller	96	3/4" Steel	90	\$ 2,104.31
Road Project	2887517	2883559	97		5/22/2019	5	1" and smaller	106	3/4" Steel	100	\$ 2,903.54
Road Project	2890370	2883559	97		5/22/2019	5	1" and smaller	42	3/4" Steel	38	\$ 1,572.11
Road Project	2854952	2843073	94		5/22/2019	5	1" and smaller	45	1" Steel	66	\$ 1,555.00
Road Project	2854958	2843073	94		5/22/2019	5	1" and smaller	54	1" Steel	77	\$ 1,675.02
Road Project	2889764	2883559	97		5/22/2019	5	1" and smaller	60	3/4" Steel	45	\$ 2,113.85
Road Project	2860588	2854727	93		5/22/2019	5	1" and smaller	90	1/2" Plastic	84	\$ 2,501.05
Road Project	2860594	2854727	93		5/22/2019	5	1" and smaller	98	1/2" Plastic	94	\$ 2,436.29
Road Project	2860596	2854727	93		5/22/2019	5	1" and smaller	99	1/2" Plastic	95	\$ 2,772.21
Road Project	2860563	2854727	93		5/22/2019	5	1" and smaller	40	3/4" Steel	50	\$ 1,739.39
Road Project	2860585	2854727	93		5/22/2019	5	1" and smaller	94	1/2" Plastic	90	\$ 2,674.53
Road Project	2860587	2854727	93		5/22/2019	5	1" and smaller	90	1/2" Plastic	85	\$ 2,584.27
Road Project	2860560	2854727	93		5/22/2019	5	1" and smaller	60	1/2" Plastic	61	\$ 2,219.97
Road Project	2860538	2854727	93		5/22/2019	5	1" and smaller	45	1/2" Plastic	50	\$ 1,910.27
Road Project	2860583	2854727	93		5/22/2019	5	1" and smaller	92	1" Plastic	87	\$ 2,569.75
Road Project	2885350	2873941	97		5/23/2019	5	1" and smaller	50	3/4" Steel	110	\$ 1,003.56
Road Project	2899077	2891281	95		5/23/2019	5	1" and smaller	16	3/4" Steel	18	\$ 1,174.02
Road Project	2887466	2759897	89		5/23/2019	5	1" and smaller	242	1" Plastic	130	\$ 3,713.32
Road Project	2854970	2843073	94		5/23/2019	5	1" and smaller	45	1" Steel	49	\$ 1,700.59
Road Project	2854990	2843073	94		5/23/2019	5	1" and smaller	99	1" Steel	120	\$ 2,504.54
Road Project	2854995	2843073	94		5/23/2019	5	1" and smaller	35	1" Steel	39	\$ 1,420.80
Road Project	2854993	2843073	94		5/23/2019	4	1" Steel	44	1" Steel	46	\$ 1,894.04
Road Project	2889941	2883559	97		5/23/2019	5	1" and smaller	104	1/2" Plastic	90	\$ 3,117.45
Road Project	2889827	2883559	97		5/23/2019	5	1" and smaller	63	3/4" Steel	59	\$ 2,344.91
Road Project	2890088	2693363	97		5/23/2019	5	1" and smaller	124	3/4" Steel	126	\$ 3,232.47
Road Project	2890060	2883559	97		5/23/2019	5	1" and smaller	123	3/4" Steel	115	\$ 3,198.21
Road Project	2890147	2883559	97		5/23/2019	5	1" and smaller	124	3/4" Steel	128	\$ 3,518.94
Road Project	2890070	2883559	97		5/23/2019	5	1" and smaller	120	1/2" Plastic	15	\$ 3,250.57
Road Project	2887382	2873941	97		5/23/2019	5	1" and smaller	67	3/4" Steel	87	\$ 2,783.06
Road Project	2849675	2845221	93		5/24/2019	5	1" and smaller	93	1/2" Plastic	86	\$ 2,309.02
Road Project	2876060	2854739	94		5/24/2019	5	1" and smaller	56	1-1/4" Steel	54	\$ 2,021.97
Road Project	2876059	2854739	94		5/24/2019	5	1" and smaller	62	1" Steel	60	\$ 1,764.79
Road Project	2890013	2883559	97		5/24/2019	5	1" and smaller	122	3/4" Steel	115	\$ 3,374.65
Road Project	2889947	2883559	97		5/24/2019	5	1" and smaller	127	1/2" Plastic	100	\$ 4,127.32
Road Project	2889946	2883559	97		5/24/2019	5	1" and smaller	127	1/2" Plastic	110	\$ 3,151.00
Road Project	2854955	2843073	94		5/24/2019	5	1" and smaller	47	1" Steel	69	\$ 1,897.54
Road Project	2889861	2883559	97		5/24/2019	5	1" and smaller	61	3/4" Steel	65	\$ 2,554.79
Road Project	2888896	2883559	97		5/24/2019	5	1" and smaller	65	3/4" Steel	105	\$ 1,858.37
Road Project	2888924	2883559	97		5/24/2019	5	1" and smaller	106	3/4" Steel	57	\$ 2,460.41
Road Project	2888915	2883559	97		5/24/2019	5	1" and smaller	107	3/4" Steel	58	\$ 2,333.93
Road Project	2849647	2845221	93		5/28/2019	5	1" and smaller	105	1/2" Plastic	98	\$ 2,503.19
Road Project	2849375	2845221	93		5/28/2019	5	1" and smaller	24	1/2" Plastic	38	\$ 1,885.77
Road Project	2849645	2845221	93		5/28/2019	5	1" and smaller	9	1/2" Plastic	92	\$ 2,342.84
Road Project	2849644	2845221	93		5/28/2019	5	1" and smaller	113	1/2" Plastic	108	\$ 2,632.13
Road Project	2849642	2845221	93		5/28/2019	5	1" and smaller	104	1/2" Plastic	98	\$ 2,481.09
Road Project	2898629	2883559	97		5/28/2019	5	1" and smaller	115	1" Plastic	207	\$ 1,678.56
Road Project	2902447	2883559	97		5/28/2019	5	1" and smaller	115	3/4" Steel	102	\$ 3,459.89
Road Project	2880873	2883559	97		5/28/2019	5	1" and smaller	63	1" Steel	15	\$ 1,591.38
Road Project	2888885	2883559	97		5/28/2019	5	1" and smaller	36	3/4" Steel	86	\$ 933.68
Road Project	2888967	2883559	97		5/28/2019	5	1" and smaller	78	3/4" Steel	36	\$ 2,165.45
Road Project	2888991	2883559	97		5/28/2019	5	1" and smaller	63	3/4" Steel	68	\$ 2,056.77
Road Project	2899251	2693363	95		5/28/2019	5	1" and smaller	70	1/2" Plastic	230	\$ 1,221.24
Road Project	2899276	2891281	95		5/28/2019	5	1" and smaller	45	1/2" Plastic	64	\$ 1,335.85
Road Project	2899277	2891281	95		5/28/2019	-		-	1/2" Plastic	10	\$ 880.20
Road Project	2899278	2891281	95		5/28/2019	5		-	1/2" Plastic	15	\$ 868.51
Road Project	2899279	2891281	95		5/28/2019	5	1" and smaller	55	1/2" Plastic	70	\$ 1,668.87
Road Project	2849651	2845221	93		5/28/2019	5	1" and smaller	114	1/2" Plastic	108	\$ 2,633.24
Road Project	2890036	2883559	97		5/29/2019	5	1" and smaller	131	3/4" Steel	135	\$ 3,423.16
Road Project	2902635	2873941	97		5/29/2019	5	1" and smaller	53	3/4" Steel	82	\$ 1,994.61
Road Project	2891840	2873941	97		5/29/2019	5	1" and smaller	134	3/4" Steel	69	\$ 4,593.39
Road Project	2900880	2893325	96		5/29/2019	5		-	1" Plastic	75	\$ 1,250.11
Road Project	2849636	2845221	93		5/30/2019	5	1" and smaller	108	1/2" Plastic	98	\$ 2,502.63
Road Project	2849640	2845221	93		5/30/2019	5	1" and smaller	93	1/2" Plastic	88	\$ 2,321.02
Road Project	2849634	2845221	93		5/30/2019	5	1" and smaller	24	1/2" Plastic	27	\$ 978.43
Road Project	2849613	2845221	93		5/30/2019	5	1" and smaller	21	1/2" Plastic	19	\$ 959.46
Road Project	2849632	2845221	93		5/30/2019	5	1" and smaller	98	1/2" Plastic	90	\$ 2,485.16
Road Project	2849630	2845221	93		5/30/2019	5	1" and smaller	92	1/2" Plastic	88	\$ 2,287.16
Road Project	2849627	2845221	93		5/30/2019	5	1" and smaller	94	1/2" Plastic	88	\$ 2,359.85
Road Project	2854997	2843073	94		5/30/2019	5	1" and smaller	53	3/4" Steel	58	\$ 1,688.12
Road Project	2854984	2843073	94		5/30/2019	5	1" and smaller	90	3/4" Steel	85	\$ 1,799.40
Road Project	2854988	2843073	94		5/30/2019	8	3/4" Steel	88	3/4" Steel	83	\$ 1,977.43
Road Project	2854986	2843073	94		5/30/2019	5	1" and smaller	85	3/4" Steel	95	\$ 2,164.50
Road Project	2854985	2843073	94		5/30/2019	5	1" and smaller	57	3/4" Steel	102	\$ 1,211.83
Road Project	2854984	2843073	94		5/30/2019	5	1" and smaller	55	3/4" Steel	100	\$ 879.35
Road Project	2854996	2843073	94		5/30/2019	5	1" and smaller	41	3/4" Steel	86	\$ 1,046.01
Road Project	2854979	2843073	94		5/31/2019	5	1" and smaller	44	3/4" Steel	50	\$ 1,543.97
Road Project	2854981	2843073	94		5/31/2019	5	1" and smaller	40	3/4" Steel	46	\$ 1,032.42
Road Project	2854977	2843073	94		5/31/2019	5	1" and smaller	50	3/4" Steel	48	\$ 1,579.18
Road Project	2854982	2843073	94		5/31/2019	5	1" and smaller	100	3/4" Steel	93	\$ 1,475.00
Road Project	2854978	2843073	94		5/31/2019	5	1" and smaller	94	3/4" Steel	89	\$ 2,304.14
Road Project	2854971	2843073	94		5/31/2019	5	1" and smaller	82	3/4" Steel	78	\$ 2,123.08
Road Project	2891845	2873941	97		5/31/2019	5	1" and smaller	214	3/4" Steel	109	\$ 6,371.17
Road Project	2854975	2843073	94		6/3/2019	6	1" and smaller	85	3/4" Steel	78	\$ 2,122.03
Road Project	2854976	2843073	94		6/3/2019	6	1" and smaller	31	3/4" Steel	39	\$ 996.84
Road Project	2902693	2883559	97		6/3/2019	6	1" and smaller	95	3/4" Steel	79	\$ 2,512.63
Road Project	2902704	2883559	97		6/3/2019	6	1" and smaller	82	3/4" Steel	81	\$ 2,326.90
Road Project	2880860	2883559	97		6/3/2019	6	1" and smaller	80	1/2" Plastic	140	\$ 2,587.27
Road Project	2854972	2843073	94		6/3/2019	6	1" and smaller	30	3/4" Steel	39	\$ 989.17
Road Project	2899921	2898628	96		6/4/2019	6	1" and smaller	96	1/2" Plastic	98	\$ 2,525.39
Road Project	2899938	2898628	96		6/4/2019	6	1" and smaller	81	1/2" Plastic	34	\$ 2,195.90
Road Project	2854949	2843073	94		6/4/2019	6	1" and smaller	78	3/4" Steel	72	\$ 1,691.10

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[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Road Project	2854954	2843073	94	[REDACTED]	6/4/2019	6	1" and smaller	86	3/4" Steel	80	\$ 2,165.62
Road Project	2854957	2843073	94		6/4/2019	73	3/4" Steel	67		1,651.24	
Road Project	2854960	2843073	94		6/4/2019	6	1" and smaller	77	3/4" Steel	71	\$ 2,051.22
Road Project	2901442	2893325	96		6/4/2019	6	1" and smaller	71	1/2" Plastic	85	\$ 2,896.35
Road Project	2900864	2893325	96		6/4/2019	6	1" and smaller	12	1/2" Plastic	10	\$ 1,791.11
Road Project	2899948	2898628	96		6/5/2019	6	1" and smaller	138	1/2" Plastic	114	\$ 2,575.87
Road Project	2900865	2898628	96		6/5/2019	131	1" and smaller	92	3/4" Steel	2,062.36	
Road Project	2854945	2843073	94		6/5/2019	6	1" and smaller	75	3/4" Steel	93	\$ 1,601.93
Road Project	2854948	2843073	94		6/5/2019	44	3/4" Steel	36		1,109.12	
Road Project	2854938	2843073	94		6/5/2019	6	1" and smaller	34	3/4" Steel	69	\$ 1,539.74
Road Project	2854941	2843073	94		6/5/2019	6	1" and smaller	43	3/4" Steel	78	\$ 1,026.88
Road Project	2854944	2843073	94		6/5/2019	6	1" and smaller	47	3/4" Steel	50	\$ 1,052.84
Road Project	2901392	2893325	96		6/5/2019	6	1" and smaller	9	1/2" Plastic	1,677.81	
Road Project	2899968	2693363	96		6/5/2019	6	1" and smaller	12	None	-	\$ 1,090.11
Road Project	2903275	2893325	96		6/5/2019	6	1" and smaller	35	1/2" Plastic	35	\$ 1,942.75
Road Project	2900907	2893325	96		6/5/2019	6	1" and smaller	72	None	-	\$ 3,608.93
Road Project	2889376	2880805	95		6/5/2019	6	1" and smaller	10	3/4" Steel	25	\$ 929.37
Road Project	2889370	2880805	95		6/5/2019	6	1" and smaller	60	1/2" Plastic	110	\$ 3,056.99
Road Project	2889379	2880805	95		6/5/2019	6	1" and smaller	45	3/4" Steel	100	\$ 2,579.80
Road Project	2888946	2880805	95		6/5/2019	6	1" and smaller	40	1/2" Plastic	100	\$ 1,882.81
Road Project	2888422	2880805	95		6/5/2019	6	1" and smaller	120	1/2" Plastic	55	\$ 4,064.38
Road Project	2888678	2880805	95		6/5/2019	6	1" and smaller	20	1/2" Plastic	40	\$ 2,092.16
Road Project	2908119	2902533	99		6/6/2019	6	1" and smaller	800	1/2" Plastic	90	\$ 9,512.96
Road Project	2900860	2898628	96		6/6/2019	176	1" and smaller	164		4,938.77	
Road Project	2900849	2898628	96		6/6/2019	6	1" and smaller	167	1/2" Plastic	160	\$ 3,972.13
Road Project	2854962	2843073	94		6/6/2019	6	1" and smaller	120	3/4" Steel	115	\$ 2,708.16
Road Project	2854967	2843073	94		6/6/2019	6	1" and smaller	90	3/4" Steel	85	\$ 1,955.31
Road Project	2888894	2880805	95		6/6/2019	6	1" and smaller	30	3/4" Steel	40	\$ 1,246.22
Road Project	2888902	2880805	95		6/6/2019	6	1" and smaller	30	3/4" Steel	15	\$ 1,824.54
Road Project	2888907	2880805	95		6/6/2019	55	3/4" Steel	115		1,868.13	
Road Project	2888321	2880805	95		6/6/2019	6	1" and smaller	75	None	-	\$ 1,350.15
Road Project	2888921	2880805	95		6/6/2019	6	1" and smaller	80	1/2" Plastic	90	\$ 2,281.78
Road Project	2888356	2880805	95		6/6/2019	6	1" and smaller	8	1/2" Plastic	75	\$ 971.20
Road Project	2888731	2880805	95		6/6/2019	6	1" and smaller	110	1/2" Plastic	55	\$ 1,208.82
Road Project	2900871	2898628	96		6/7/2019	6	1" and smaller	133	3/4" Steel	92	\$ 2,159.94
Road Project	2909941	2898628	96		6/7/2019	6	1" and smaller	109	1/2" Plastic	164	\$ 2,833.00
Road Project	2855002	2843073	94		6/7/2019	6	1" and smaller	176	3/4" Steel	170	\$ 2,093.24
Road Project	2854999	2843073	94		6/7/2019	6	1" and smaller	254	3/4" Steel	250	\$ 2,435.73
Road Project	2900990	2893325	96		6/7/2019	6	1" and smaller	13	1/2" Plastic	10	\$ 981.41
Road Project	2902274	2893325	96		6/7/2019	6	1" and smaller	24	1/2" Plastic	26	\$ 6,988.34
Road Project	2888548	2880805	95		6/7/2019	6	1" and smaller	75	3/4" Steel	100	\$ 2,073.58
Road Project	2889368	2880805	95		6/7/2019	6	1" and smaller	60	None	-	\$ 1,161.78
Road Project	2888695	2880805	95		6/7/2019	6	1" and smaller	45	1/2" Plastic	100	\$ 2,594.40
Road Project	2889377	2880805	95		6/7/2019	6	1" and smaller	40	3/4" Steel	45	\$ 1,481.95
Road Project	2889378	2880805	95		6/7/2019	6	1" and smaller	30	3/4" Steel	38	\$ 1,370.53
Road Project	2900843	2898628	96		6/10/2019	6	1" and smaller	39	1/2" Plastic	78	\$ 1,126.51
Road Project	2900897	2898628	96		6/10/2019	6	1" and smaller	104	1/2" Plastic	95	\$ 1,634.45
Road Project	2899936	2898628	96		6/10/2019	6	1" and smaller	47	1/2" Plastic	44	\$ 1,195.15
Road Project	2899928	2898628	96		6/10/2019	6	1" and smaller	90	1/2" Plastic	87	\$ 1,499.82
Road Project	2903162	2893325	96		6/10/2019	6	1" and smaller	153	1/2" Plastic	223	\$ 3,972.74
Road Project	2889184	2880805	95		6/10/2019	6	1" and smaller	20	3/4" Steel	80	\$ 1,224.88
Road Project	2888618	2880805	95		6/10/2019	6	1" and smaller	45	3/4" Steel	50	\$ 1,872.16
Road Project	2889179	2880805	95		6/10/2019	6	1" and smaller	45	3/4" Steel	45	\$ 1,160.38
Road Project	2889346	2880805	95		6/10/2019	6	1" and smaller	25	3/4" Steel	54	\$ 1,344.23
Road Project	2888996	2880805	95		6/10/2019	6	1" and smaller	40	3/4" Steel	45	\$ 1,544.78
Road Project	2888651	2880805	95		6/10/2019	6	1" and smaller	25	3/4" Steel	97	\$ 1,094.38
Road Project	2889082	2880805	95		6/11/2019	6	1" and smaller	50	3/4" Steel	55	\$ 3,171.10
Road Project	2889278	2880805	95		6/11/2019	6	1" and smaller	60	3/4" Steel	55	\$ 2,536.69
Road Project	2889371	2880805	95		6/11/2019	6	1" and smaller	50	None	-	\$ 1,883.30
Road Project	2889339	2880805	95		6/11/2019	6	1" and smaller	45	3/4" Steel	105	\$ 1,846.63
Road Project	2889258	2880805	95		6/11/2019	6	1" and smaller	15	1/2" Plastic	18	\$ 1,810.84
Road Project	2900902	2898628	96		6/12/2019	6	1" and smaller	60	1/2" Plastic	162	\$ 1,355.71
Road Project	2900899	2898628	96		6/12/2019	6	1" and smaller	27	1/2" Plastic	75	\$ 1,090.35
Road Project	2900891	2898628	96		6/12/2019	6	1" and smaller	125	1/2" Plastic	85	\$ 3,091.04
Road Project	2888585	2880805	95		6/13/2019	6	1" and smaller	40	3/4" Steel	95	\$ 1,544.78
Road Project	2903874	2893325	96		6/17/2019	6	-	None	-	-	\$ 688.46
Road Project	2886054	2858315	95		6/18/2019	6	1" and smaller	84	1/2" Plastic	-	\$ 1,551.01
Road Project	2885827	2858315	95		6/18/2019	6	1" and smaller	62	1/2" Plastic	70	\$ 1,582.07
Road Project	2886155	2858315	95		6/18/2019	6	1" and smaller	85	1/2" Plastic	42	\$ 1,625.78
Road Project	2886174	2858315	95		6/18/2019	6	1" and smaller	86	1/2" Plastic	57	\$ 1,498.28
Road Project	2904146	2893325	96		6/18/2019	6	1" and smaller	91	1/2" Plastic	115	\$ 5,560.73
Road Project	2886037	2858315	95		6/19/2019	6	1" and smaller	63	1/2" Plastic	45	\$ 1,362.89
Road Project	2885825	2858315	95		6/19/2019	6	1" and smaller	86	1/2" Plastic	40	\$ 2,114.90
Road Project	2886299	2858315	95		6/19/2019	6	1" and smaller	92	1" and smaller	185	\$ 1,121.74
Road Project	2886319	2858315	95		6/19/2019	6	1" and smaller	8	1/2" Plastic	40	\$ 1,555.50
Road Project	2885810	2858315	95		6/19/2019	6	1" and smaller	88	1/2" Plastic	65	\$ 2,161.47
Road Project	2885823	2858315	95		6/19/2019	6	1" and smaller	80	1/2" Plastic	60	\$ 2,157.72
Road Project	2885563	2858315	95		6/19/2019	6	1" and smaller	58	1/2" Plastic	113	\$ 1,368.35
Road Project	2885564	2858315	95		6/19/2019	6	1" and smaller	55	1/2" Plastic	33	\$ 1,439.44
Road Project	2904755	2693363	96		6/19/2019	6	1" and smaller	91	3/4" Steel	84	\$ 2,637.23
Road Project	2903537	2893325	96		6/19/2019	6	1" and smaller	54	1/2" Plastic	56	\$ 1,511.91
Road Project	2886051	2858315	95		6/20/2019	6	1" and smaller	88	1/2" Plastic	48	\$ 2,395.42
Road Project	2885824	2858315	95		6/20/2019	6	1" and smaller	95	1/2" Plastic	74	\$ 1,983.60
Road Project	2886052	2858315	95		6/20/2019	6	1" and smaller	95	1/2" Plastic	34	\$ 2,695.79
Road Project	2885826	2858315	95		6/20/2019	6	1" and smaller	115	1" and smaller	74	\$ 2,072.75
Road Project	2910804	2892699	96		6/20/2019	6	1" and smaller	88	1/2" Plastic	93	\$ 2,316.29
Road Project	2910830	2892699	96		6/20/2019	6	1" and smaller	43	1/2" Plastic	98	\$ 1,546.06
Road Project	2915230	2892699	96		6/20/2019	6	1" and smaller	64	1/2" Plastic	98	\$ 2,021.60
Road Project	2910824	2892699	96		6/20/2019	6	1" and smaller	87	1/2" Plastic	39	\$ 4,582.77
Road Project	2915235	2892699	96		6/20/2019	6	1" and smaller	35	1/2" Plastic	30	\$ 4,492.50
Road Project	2910787	2892699	96		6/20/2019	6	1" and smaller	87	1/2" Plastic	22	\$ 2,361.24
Road Project	2910817	2892699	96		6/20/2019	6	1" and smaller	87	1/2" Plastic	102	\$ 2,305.95
Road Project	2903524	2893325	96		6/20/2019	6	1" and smaller	88	1/2" Plastic	86	\$ 1,515.02
Road Project	2885555	2858315	95		6/21/2019	6	1" and smaller	85	1/2" Plastic	114	\$ 1,559.64
Road Project	2885630	2858315	95		6/21/2019	6	1" and smaller	108	1/2" Plastic	76	\$ 2,059.66
Road Project	2740284	2693363	96		6/23/2019	6	1" and smaller	109	1/2" Plastic	110	\$ 1,370.25
Road Project	2916899	2693363	96		6/24/2019	6	1" and smaller	100	1/2" Plastic	110	\$ 1,516.11
Road Project	2899734	2858854	93		6/24/2019	6	1" and smaller	100	1/2" Plastic	112	\$ 2,691.51
Road Project	2885562	2858315	95		6/24/2019	6	1" and smaller	50	1/2" Plastic	113	\$ 1,420.66
Road Project	2885759	2858315	95		6/24/2019	6	1" and smaller	90	1/2" Plastic	60	\$ 2,181.22

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PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Road Project	2886053	2858315	95	[REDACTED]	6/24/2019	6	1" and smaller	95	1/2" Plastic	65	\$ 2,893.58
Road Project	2886528	2858315	95		6/24/2019	6	1" and smaller	90	1/2" Plastic	89	\$ 2,090.76
Road Project	2885624	2858315	95		6/24/2019	6	1" and smaller	95	1/2" Plastic	60	\$ 2,520.74
Road Project	2886175	2858315	95		6/24/2019	6	1" and smaller	45	1/2" Plastic	30	\$ 1,852.18
Road Project	2885631	2858315	95		6/24/2019	6	1" and smaller	148	1/2" Plastic	108	\$ 2,400.07
Road Project	2885629	2858315	95		6/24/2019	6	1" and smaller	98	1/2" Plastic	24	\$ 2,394.52
Road Project	2906213	2892699	96		6/24/2019	6	1" and smaller	6	1" and smaller	71	\$ 1,283.97
Road Project	2906219	2892699	96		6/24/2019	6	1" and smaller	66	1/2" Plastic	102	\$ 1,267.85
Road Project	2899730	2858854	93		6/25/2019	6	1" and smaller	44	1/2" Plastic	109	\$ 1,551.99
Road Project	2899731	2858854	93		6/25/2019	6	1" and smaller	79	1/2" Plastic	143	\$ 2,100.75
Road Project	2899727	2858854	93		6/25/2019	6	1" and smaller	275	1/2" Plastic	111	\$ 5,097.13
Road Project	2899736	2858854	93		6/25/2019	6	1" and smaller	47	1/2" Plastic	112	\$ 1,357.94
Road Project	2899735	2858854	93		6/25/2019	6	1" and smaller	57	1/2" Plastic	119	\$ 1,623.24
Road Project	2899733	2858854	93		6/25/2019	6	1" and smaller	50	1/2" Plastic	123	\$ 1,643.25
Road Project	2899732	2858854	93		6/25/2019	6	1" and smaller	57	1/2" Plastic	123	\$ 1,851.70
Road Project	2906204	2892699	96		6/25/2019	6	1" and smaller	94	1/2" Plastic	76	\$ 4,057.88
Road Project	2916583	2892699	96		6/25/2019	6	1" and smaller	76	1/2" Plastic	55	\$ 2,140.53
Road Project	2886117	2858315	95		6/25/2019	103	1/2" Plastic	103	1/2" Plastic	1,313.39	\$
Road Project	2899739	2858854	93		6/26/2019	6	1" and smaller	73	1/2" Plastic	135	\$ 1,995.09
Road Project	2899737	2858854	93		6/26/2019	6	1" and smaller	40	1/2" Plastic	112	\$ 1,491.15
Road Project	2916562	2892699	96		6/26/2019	6	1" and smaller	79	1/2" Plastic	85	\$ 2,107.63
Road Project	2915381	2892699	96		6/26/2019	6	1" and smaller	141	1/2" Plastic	89	\$ 6,226.92
Road Project	2915232	2892699	96		6/26/2019	6	1" and smaller	117	1/2" Plastic	73	\$ 2,722.47
Road Project	2915222	2892699	96		6/26/2019	6	1" and smaller	136	1" Plastic	53	\$ 1,861.93
Road Project	2915432	2883559	97		6/26/2019	6	1" and smaller	74	1" Steel	64	\$ 1,378.68
Road Project	2915423	2883559	97		6/26/2019	6	1" and smaller	30	3/4" Steel	60	\$ 2,239.56
Road Project	2890459	2867745	95		6/26/2019	6	1" and smaller	44	1/2" Plastic	97	\$ 1,576.81
Road Project	2886073	2858315	95		6/26/2019	6	1" and smaller	278	1" Plastic	38	\$ 2,757.77
Road Project	2914911	2906367	98		6/26/2019	6	1" and smaller	109	1" Steel	57	\$ 2,805.36
Road Project	2914910	2906367	98		6/26/2019	6	1" and smaller	96	1/2" Plastic	50	\$ 2,527.85
Road Project	2914892	2906367	98		6/26/2019	6	1" and smaller	62	1" Steel	28	\$ 1,914.87
Road Project	2914908	2906367	98		6/26/2019	6	1" and smaller	97	1/2" Plastic	140	\$ 2,571.71
Road Project	2914909	2906367	98		6/26/2019	6	1" and smaller	83	1" Steel	53	\$ 2,348.02
Road Project	2890442	2867745	95		6/27/2019	6	1" and smaller	42	3/4" Steel	92	\$ 1,550.08
Road Project	2890725	2867745	95		6/27/2019	6	1" and smaller	47	3/4" Steel	115	\$ 1,628.40
Road Project	2886119	2858315	95		6/27/2019	6	1" and smaller	395	1/2" Plastic	30	\$ 6,887.75
Road Project	2909796	2892699	96		6/27/2019	6	1" and smaller	52	1/2" Plastic	98	\$ 1,755.59
Road Project	2914914	2906367	98		6/27/2019	6	1" and smaller	23	1" Steel	65	\$ 1,316.86
Road Project	2914913	2906367	98		6/27/2019	6	1" and smaller	89	1" Steel	37	\$ 2,461.34
Road Project	2914915	2906367	98		6/27/2019	6	1" and smaller	48	1/2" Plastic	-	\$ 1,663.49
Road Project	2914942	2906367	98		6/27/2019	6	1" and smaller	76	1" Steel	76	\$ 1,530.13
Road Project	2914922	2906367	98		6/27/2019	6	1" and smaller	34	3/4" Steel	71	\$ 1,515.32
Road Project	2899738	2858854	93		6/28/2019	6	1" and smaller	80	1/2" Plastic	146	\$ 2,479.82
Road Project	2890223	2867745	95		6/28/2019	6	1" and smaller	36	3/4" Steel	102	\$ 1,084.41
Road Project	2890653	2867745	95		6/28/2019	6	1" and smaller	55	3/4" Steel	116	\$ 2,462.39
Road Project	2890654	2867745	95		6/28/2019	55	3/4" Steel	55	3/4" Steel	23	\$ 2,326.18
Road Project	2886120	2858315	95		6/28/2019	6	1" and smaller	285	1/2" Plastic	68	\$ 6,166.26
Road Project	2914917	2906367	98		6/28/2019	6	1" and smaller	49	3/4" Steel	57	\$ 1,751.82
Road Project	2914920	2906367	98		6/28/2019	6	1" and smaller	72	3/4" Steel	56	\$ 2,078.00
Road Project	2914919	2906367	98		6/28/2019	6	1" and smaller	61	1" Steel	65	\$ 1,942.98
Road Project	2890224	2867745	95		7/1/2019	7	1" and smaller	46	3/4" Steel	96	\$ 1,195.54
Road Project	2890651	2867745	95		7/1/2019	7	1" and smaller	27	3/4" Steel	37	\$ 1,510.36
Road Project	2890652	2867745	95		7/1/2019	7	1" and smaller	34	3/4" Steel	44	\$ 1,571.72
Road Project	2890225	2867745	95		7/1/2019	7	1" and smaller	70	3/4" Steel	127	\$ 1,430.38
Road Project	2905858	2693363	95		7/1/2019	7	2" plastic	50	1" Plastic	50	\$ 3,119.71
Road Project	2886007	2858315	95		7/1/2019	7	1" and smaller	7	1" Plastic	140	\$ 1,817.49
Road Project	2890732	2867745	95		7/2/2019	7	1" and smaller	41	3/4" Steel	109	\$ 1,446.09
Road Project	2886118	2858315	95		7/2/2019	7	1" and smaller	180	1/2" Plastic	285	\$ 5,572.12
Road Project	2886122	2858315	95		7/3/2019	7	1" and smaller	80	1/2" Plastic	177	\$ 1,850.83
Road Project	2886121	2858315	95		7/3/2019	7	1" and smaller	70	1/2" Plastic	171	\$ 1,750.60
Road Project	2920356	2858315	95		7/3/2019	7	1" and smaller	325	1" Plastic	135	\$ 5,751.07
Road Project	2890222	2867745	95		7/8/2019	7	1" and smaller	37	3/4" Steel	90	\$ 1,121.49
Road Project	2890721	2867745	95		7/8/2019	7	1" and smaller	28	3/4" Steel	10	\$ 1,676.35
Road Project	2890705	2867745	95		7/8/2019	7	1" and smaller	56	3/4" Steel	109	\$ 2,653.28
Road Project	2889909	2867745	95		7/8/2019	7	1" and smaller	38	3/4" Steel	91	\$ 1,896.61
Road Project	2890648	2867745	95		7/8/2019	7	1" and smaller	42	3/4" Steel	100	\$ 1,532.45
Road Project	2890326	2867745	95		7/9/2019	7	1" and smaller	70	1/2" Plastic	78	\$ 1,274.09
Road Project	2890733	2867745	95		7/9/2019	7	1" and smaller	45	3/4" Steel	126	\$ 1,587.09
Road Project	2890650	2867745	95		7/9/2019	7	1" and smaller	32	3/4" Steel	95	\$ 1,414.97
Road Project	2890129	2867745	95		7/9/2019	7	1" and smaller	58	3/4" Steel	68	\$ 1,165.86
Road Project	2890124	2867745	95		7/9/2019	7	1" and smaller	30	3/4" Steel	38	\$ 1,432.54
Road Project	2890128	2867745	95		7/9/2019	7	1" and smaller	31	3/4" Steel	38	\$ 1,061.90
Road Project	2890130	2867745	95		7/9/2019	7	1" and smaller	28	3/4" Steel	38	\$ 1,028.62
Road Project	2889913	2867745	95		7/10/2019	7	1" and smaller	29	3/4" Steel	36	\$ 1,102.98
Road Project	2894745	2867745	95		7/10/2019	7	1" and smaller	49	3/4" Steel	53	\$ 1,221.38
Road Project	2889920	2867745	95		7/10/2019	7	1" and smaller	27	3/4" Steel	37	\$ 1,497.77
Road Project	2889919	2867745	95		7/10/2019	7	1" and smaller	28	3/4" Steel	39	\$ 1,325.94
Road Project	2889916	2867745	95		7/10/2019	7	1" and smaller	29	3/4" Steel	49	\$ 1,061.49
Road Project	2922619	2867745	95		7/10/2019	7	1" and smaller	50	3/4" Steel	100	\$ 2,274.34
Road Project	2889917	2867745	95		7/10/2019	7	1" and smaller	38	3/4" Steel	115	\$ 1,486.93
Road Project	2894754	2867745	95		7/11/2019	7	1" and smaller	30	3/4" Steel	66	\$ 1,198.20
Road Project	2894774	2867745	95		7/11/2019	7	1" and smaller	34	1/2" Plastic	78	\$ 1,522.59
Road Project	2889912	2867745	95		7/12/2019	7	1" and smaller	30	3/4" Steel	46	\$ 2,540.71
Road Project	2889914	2867745	95		7/12/2019	7	1" and smaller	77	3/4" Steel	108	\$ 2,892.49
Road Project	2894779	2867745	95		7/13/2019	7	1" and smaller	38	1/2" Plastic	48	\$ 1,422.95
Road Project	2890850	2867745	95		7/15/2019	7	1" and smaller	30	3/4" Steel	41	\$ 1,070.45
Road Project	2890853	2867745	95		7/15/2019	7	1" and smaller	38	3/4" Steel	84	\$ 1,940.88
Road Project	2894873	2867745	95		7/15/2019	7	1" and smaller	36	1/2" Plastic	46	\$ 1,649.71
Road Project	2894854	2867745	95		7/15/2019	7	1" and smaller	31	1/2" Plastic	41	\$ 1,168.21
Road Project	2890870	2867745	95		7/15/2019	7	1" and smaller	27	3/4" Steel	39	\$ 1,318.45
Road Project	2890869	2867745	95		7/15/2019	29	3/4" Steel	29	3/4" Steel	38	\$ 1,317.07
Road Project	2894777	2867745	95		7/15/2019	7	1" and smaller	36	1/2" Plastic	91	\$ 1,416.63
Road Project	2890840	2867745	95		7/15/2019	7	1" and smaller	36	3/4" Steel	46	\$ 1,088.44
Road Project	2894778	2867745	95		7/15/2019	7	1" and smaller	43	1/2" Plastic	89	\$ 1,616.55
Road Project	2889915	2867745	95		7/16/2019	7	1" and smaller	42	3/4" Steel	61	\$ 1,159.45
Road Project	2894755	2867745	95		7/16/2019	7	1" and smaller	30	3/4" Steel	38	\$ 1,140.22
Road Project	2894736	2867745	95		7/16/2019	7	1" and smaller	72	1/2" Plastic	123	\$ 1,955.45
Road Project	2894872	2867745	95		7/16/2019	7	1" and smaller	61	1/2" Plastic	152	\$ 1,351.54
Road Project	2894750	2867745	95		7/16/2019	7	1" and smaller	22	3/4" Steel	32	\$ 1,200.48
Road Project	2889918	2867745	95		7/16/2019	7	1" and smaller	10	3/4" Steel	10	\$ 865.40

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Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Road Project	2918475	2880805	98		7/17/2019	7	1" and smaller	136 3/4" Steel		320 \$	4,386.83
Road Project	2918484	2880805	95		7/17/2019	7	1" and smaller	276 3/4" Steel		243 \$	3,299.88
Road Project	2918161	2914229	96		7/24/2019	7	1" and smaller	79 1/2" Plastic		65 \$	2,142.32
Road Project	2918174	2914229	96		7/24/2019	7	1" and smaller	100 1/2" Plastic		83 \$	2,540.92
Road Project	2918203	2914229	96		7/24/2019	7	1" and smaller	70 1/2" Plastic		59 \$	2,155.46
Road Project	2923972	2865956	94		7/24/2019	7	1" and smaller	98 3/4" Steel		19 \$	2,449.73
Road Project	2877256	2865956	94		7/24/2019	7	1" and smaller	36 3/4" Steel		38 \$	1,065.96
Road Project	2877252	2865956	94		7/24/2019	7	1" and smaller	45 3/4" Steel		47 \$	1,130.77
Road Project	2877255	2865956	94		7/24/2019	7	1" and smaller	44 3/4" Steel		49 \$	1,104.23
Road Project	2877251	2865956	94		7/24/2019	7	1" and smaller	18 3/4" Steel		40 \$	1,208.05
Road Project	2877247	2865956	94		7/24/2019	7	1" and smaller	30 3/4" Steel		36 \$	1,105.05
Road Project	2877250	2865956	94		7/24/2019	7	1" and smaller	27 3/4" Steel		32 \$	1,063.87
Road Project	2877259	2865956	94		7/24/2019	7	1" and smaller	124 3/4" Steel		119 \$	2,600.50
Road Project	2918170	2914229	96		7/25/2019	7	1" and smaller	166 1/2" Plastic		185 \$	1,741.71
Road Project	2918215	2914229	96		7/25/2019	7	1" and smaller	163 1/2" Plastic		175 \$	3,577.85
Road Project	2918218	2914229	96		7/25/2019	7	1" and smaller	180 1/2" Plastic		193 \$	3,839.26
Road Project	2877254	2865956	94		7/25/2019	7	Retirement	- 3/4" Steel		90 \$	397.08
Road Project	2923409	2865956	94		7/25/2019	7	1" and smaller	28 3/4" Steel		44 \$	884.82
Road Project	2918237	2914229	96		7/26/2019	7	1" and smaller	66 1/2" Plastic		110 \$	939.30
Road Project	2922593	2906370	98		7/26/2019	7	1" and smaller	89 1/2" Plastic		83 \$	2,414.85
Road Project	2922592	2906370	98		7/26/2019	7	1" and smaller	84 1/2" Plastic		175 \$	2,332.49
Road Project	2929152	2925309	94		7/26/2019	7	1" and smaller	89 1/2" Plastic		77 \$	1,822.11
Road Project	2928860	2925309	94		7/26/2019	7	1" and smaller	53 1/2" Plastic		41 \$	1,621.46
Road Project	29212643	2919228	94		7/29/2019	7	1" and smaller	69 1" Steel		69 \$	2,378.25
Road Project	2903058	2899094	93		7/29/2019	7	1" and smaller	150 1" Plastic		586 \$	3,397.19
Road Project	2928867	2925309	94		7/29/2019	7	1" and smaller	15 1/2" Plastic		- \$	1,351.00
Road Project	2928865	2925309	94		7/29/2019	7	1" and smaller	96 1/2" Plastic		84 \$	2,328.74
Road Project	2928862	2925309	94		7/29/2019	7	1" and smaller	52 1/2" Plastic		40 \$	1,604.80
Road Project	2928864	2925309	94		7/29/2019	7	1" and smaller	10 1/2" Plastic		5 \$	1,012.35
Road Project	2922594	2906370	98		7/31/2019	7	1" and smaller	180 1/2" Plastic		115 \$	3,612.48
Road Project	2916717	2906370	98		7/31/2019	7	1" and smaller	22 1/2" Plastic		32 \$	1,204.79
Road Project	2911404	2900909	89		7/31/2019	7	1" and smaller	35 1" Plastic		1 \$	832.32
Road Project	2884947	2693363	95		7/31/2019	7	1" and smaller	75 3/4" Steel		88 \$	3,190.78
Road Project	2885000	2658315	95		7/31/2019	7	1" and smaller	95 3/4" Steel		105 \$	2,407.28
Road Project	2917479	2902309	95		8/1/2019	8	1" and smaller	86 1" Plastic		26 \$	1,879.48
Road Project	2917619	2902309	95		8/1/2019	8	1" and smaller	97 None		- \$	5,905.03
Road Project	2930176	2880805	95		8/1/2019	8	1" and smaller	25 3/4" Steel		32 \$	1,004.89
Road Project	2930170	2880805	95		8/1/2019	8	1" and smaller	35 3/4" Steel		40 \$	1,579.86
Road Project	2884968	2858315	95		8/2/2019	8	1" and smaller	40 3/4" Steel		48 \$	1,663.98
Road Project	2884909	2858315	95		8/2/2019	8	1" and smaller	55 1/2" Plastic		65 \$	1,881.80
Road Project	2884930	2858315	95		8/2/2019	8	1" and smaller	50 3/4" Steel		65 \$	1,865.95
Road Project	2884702	2693363	95		8/2/2019	8	1" and smaller	170 1/2" Plastic		223 \$	4,526.42
Road Project	2917596	2902309	95		8/3/2019	8	1" and smaller	43 3/4" Steel		41 \$	2,033.29
Road Project	2921356	2901828	95		8/3/2019	8	2" plastic	32 2" Steel		40 \$	2,633.45
Road Project	2919507	2880805	95		8/3/2019	8	The over	1 1" Plastic		2 \$	603.01
Road Project	2920050	2883559	95		8/5/2019	8	1" and smaller	55 3/4" Steel		75 \$	1,381.12
Road Project	2918053	2902309	95		8/5/2019	8	2" plastic	15 2" Plastic		25 \$	3,416.57
Road Project	2917687	2902309	95		8/5/2019	8	1" and smaller	317 1" Plastic		174 \$	3,068.43
Road Project	2885208	2858315	95		8/7/2019	8	1" and smaller	10 1/2" Plastic		3 \$	776.94
Road Project	2885205	2858315	95		8/7/2019	8	1" and smaller	310 1/2" Plastic		51 \$	6,614.80
Road Project	2885204	2858315	95		8/8/2019	8	1" and smaller	215 1/2" Plastic		420 \$	4,695.57
Road Project	2885203	2858315	95		8/8/2019	8	1" and smaller	305 1/2" Plastic		312 \$	5,712.24
Road Project	2886123	2858315	95		8/8/2019	8	1" and smaller	75 1/2" Plastic		65 \$	2,034.79
Road Project	2914932	2906367	98		8/9/2019	8	1" and smaller	85 3/4" Steel		71 \$	2,332.70
Road Project	2915361	2907282	93		8/12/2019	8	1" and smaller	116 1/2" Plastic		100 \$	2,259.19
Road Project	2915359	2907282	93		8/12/2019	8	1" and smaller	101 3/4" Steel		95 \$	2,422.50
Road Project	2915363	2907282	93		8/12/2019	8	1" and smaller	138 3/4" Steel		134 \$	2,870.60
Road Project	2915362	2907282	93		8/12/2019	8	1" and smaller	154 1/2" Plastic		50 \$	3,301.98
Road Project	2915360	2907282	93		8/12/2019	8	1" and smaller	91 3/4" Steel		86 \$	2,263.31
Road Project	2919236	2907282	93		8/12/2019	8	2" plastic	51 None		- \$	2,864.97
Road Project	2885799	2858315	95		8/12/2019	8	1" and smaller	35 1" Plastic		110 \$	823.55
Road Project	2885828	2858315	95		8/12/2019	8	1" and smaller	60 1" Plastic		113 \$	990.48
Road Project	2885847	2858315	95		8/12/2019	8	1" and smaller	120 1/2" Plastic		364 \$	2,875.82
Road Project	2885206	2858315	95		8/12/2019	8	1" and smaller	210 1/2" Plastic		70 \$	4,065.87
Road Project	2915358	2907282	93		8/13/2019	8	1" and smaller	84 1/2" Plastic		80 \$	2,150.42
Road Project	2915357	2907282	93		8/13/2019	8	1" and smaller	89 3/4" Steel		84 \$	2,248.10
Road Project	2913517	2907282	93		8/13/2019	8	1" and smaller	103 3/4" Steel		96 \$	2,408.56
Road Project	2913515	2907282	93		8/13/2019	8	1" and smaller	40 3/4" Steel		45 \$	1,055.15
Road Project	2913516	2907282	93		8/13/2019	8	1" and smaller	48 3/4" Steel		48 \$	1,042.83
Road Project	2913518	2907282	93		8/13/2019	8	1" and smaller	174 3/4" Steel		169 \$	2,483.44
Road Project	2913519	2907282	93		8/13/2019	8	1" and smaller	280 1/2" Plastic		260 \$	4,862.87
Road Project	2914935	2906367	98		8/13/2019	8	1" and smaller	169 1" Steel		185 \$	3,715.40
Road Project	2914936	2906367	98		8/13/2019	8	1" and smaller	23 1" Steel		28 \$	1,308.99
Road Project	2921595	2906370	98		8/13/2019	8	1" and smaller	87 1" Plastic		81 \$	2,381.63
Road Project	2884833	2858315	95		8/13/2019	8	1" and smaller	35 3/4" Steel		52 \$	814.01
Road Project	2884882	2858315	95		8/13/2019	8	1" and smaller	30 3/4" Steel		10 \$	1,276.52
Road Project	2916716	2906370	98		8/14/2019	8	1" and smaller	55 1/2" Plastic		70 \$	1,894.21
Road Project	2912623	2907282	93		8/14/2019	8	1" and smaller	98 1/2" Plastic		94 \$	2,370.45
Road Project	2913512	2907282	93		8/14/2019	8	1" and smaller	117 1/2" Plastic		112 \$	2,650.96
Road Project	2913514	2907282	93		8/14/2019	8	1" and smaller	105 3/4" Steel		100 \$	2,438.98
Road Project	2913513	2907282	93		8/14/2019	8	1" and smaller	39 3/4" Steel		43 \$	1,036.42
Road Project	2913520	2907282	93		8/14/2019	8	1" and smaller	39 3/4" Steel		43 \$	1,469.71
Road Project	2884863	2858315	95		8/14/2019	8	1" and smaller	50 1/2" Plastic		76 \$	3,151.66
Road Project	2885212	2858315	95		8/14/2019	8	1" and smaller	50 1/2" Plastic		60 \$	2,053.15
Road Project	2913509	2907282	93		8/14/2019	8	1" and smaller	38 3/4" Steel		42 \$	1,029.11
Road Project	2910578	2907282	93		8/15/2019	8	1" and smaller	40 3/4" Steel		44 \$	1,262.73
Road Project	2910581	2907282	93		8/15/2019	8	1" and smaller	42 3/4" Steel		46 \$	1,515.34
Road Project	2910580	2907282	93		8/15/2019	8	1" and smaller	96 1/2" Plastic		92 \$	1,819.15
Road Project	2912624	2907282	93		8/15/2019	8	1" and smaller	40 3/4" Steel		46 \$	1,481.71
Road Project	2912625	2907282	93		8/15/2019	8	1" and smaller	40 3/4" Steel		45 \$	1,481.71
Road Project	2910579	2907282	93		8/15/2019	8	1" and smaller	58 3/4" Steel		48 \$	2,102.04
Road Project	2884873	2858315	95		8/15/2019	8	1" and smaller	64 3/4" Steel		60 \$	2,126.28
Road Project	2910576	2907282	93		8/16/2019	8	1" and smaller	40 3/4" Steel		44 \$	1,046.10
Road Project	2910577	2907282	93		8/16/2019	8	1" and smaller	44 3/4" Steel		48 \$	1,583.98
Road Project	2884865	2858315	95		8/16/2019	8	1" and smaller	55 1" Plastic		495 \$	1,379.41
Road Project	2913521	2907282	93		8/19/2019	8	1" and smaller	100 1/2" Plastic		95 \$	2,397.66
Road Project	2910674	2907282	93		8/19/2019	8	1" and smaller	98 3/4" Plastic		94 \$	2,364.03
Road Project	2917319	2907282	93		8/21/2019	8	1" and smaller	78 3/4" Steel		20 \$	2,255.34
Road Project	2923431	2907282	93		8/21/2019	8	1" and smaller	102 3/4" Steel		108 \$	2,736.87
Road Project	2925132	2907282	93		8/21/2019	8	1" and smaller	126 3/4" Steel		131 \$	3,448.52

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Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Road Project	2922412	2907282	93		8/21/2019	8	1" and smaller	145 3/4" Steel		140 \$	3,570.79
Road Project	2919227	2907282	93		8/21/2019	8	1" and smaller	88 3/4" Steel		121 \$	3,984.57
Road Project	2923413	2907282	93		8/21/2019	8	1" and smaller	102 3/4" Steel		30 \$	2,929.95
Road Project	2919233	2907282	93		8/21/2019	8	1" and smaller	72 3/4" Steel		95 \$	2,134.96
Road Project	2917318	2907282	93		8/22/2019	8	1" and smaller	100 3/4" Steel		20 \$	2,691.71
Road Project	2917317	2907282	93		8/22/2019	8	1" and smaller	115 3/4" Steel		84 \$	3,039.17
Road Project	2919234	2907282	93		8/22/2019	8	1" and smaller	103 3/4" Steel		85 \$	2,960.31
Road Project	2919235	2907282	93		8/22/2019	8	1" and smaller	111 3/4" Steel		20 \$	2,988.95
Road Project	2926233	2907282	93		8/22/2019	8	1" and smaller	50 1/2" Plastic		120 \$	2,364.56
Road Project	2925133	2907282	93		8/22/2019	8	1" and smaller	121 3/4" Steel		125 \$	2,946.26
Road Project	2917315	2907282	93		8/23/2019	8	1" and smaller	109 3/4" Steel		15 \$	2,796.52
Road Project	2917316	2907282	93		8/23/2019	8	1" and smaller	109 3/4" Steel		85 \$	2,844.10
Road Project	2925225	2907282	93		8/23/2019	8	1" and smaller	70 3/4" Steel		15 \$	2,238.82
Road Project	2925134	2907282	93		8/23/2019	8	1" and smaller	70 3/4" Steel		130 \$	2,249.78
Road Project	2950383	2693363	98		8/27/2019	8	1" and smaller	90 1" Steel		105 \$	2,753.61
Road Project	2950380	2693363	98		8/27/2019	8	1" and smaller	88 1" Steel		12 \$	2,899.14
Road Project	2944889	2866336	89		9/3/2019	9	1" and smaller	178 1/2" Plastic		49 \$	3,757.32
Road Project	2889176	2866336	89		9/4/2019	9	1" and smaller	450 1" Plastic		8 \$	6,539.29
Road Project	2889178	2866336	89		9/4/2019	9	1" and smaller	258 1" Plastic		8 \$	6,803.04
Road Project	2951985	2866336	89		9/4/2019	9	1" and smaller	176 1/2" Plastic		48 \$	3,845.86
Road Project	2926490	2907282	93		9/4/2019	9	1" and smaller	87 1/2" Plastic		108 \$	2,507.22
Road Project	2915366	2907282	93		9/4/2019	9	1" and smaller	123 1/2" Plastic		80 \$	2,916.20
Road Project	2915364	2907282	93		9/4/2019	9	1" and smaller	10 1/2" Plastic		14 \$	1,148.56
Road Project	2888717	2693363	89		9/5/2019	9	1" and smaller	514 1/2" Plastic		79 \$	7,147.18
Road Project	2901766	2866336	89		9/5/2019	9	1" and smaller	93 1" Plastic		4 \$	2,105.34
Road Project	2926491	2907282	93		9/6/2019	9	1" and smaller	8 3/4" Steel		103 \$	1,195.03
Road Project	2907694	2866336	89		9/6/2019	9	1" and smaller	109 1/2" Plastic		159 \$	2,706.01
Road Project	2889175	2866336	89		9/6/2019	9	1" and smaller	271 1" Plastic		38 \$	4,618.25
Road Project	2926482	2907282	93		9/6/2019	9	1" and smaller	82 1/2" Plastic		103 \$	2,392.84
Road Project	2917311	2907282	93		9/6/2019	9	1" and smaller	113 3/4" Steel		86 \$	2,887.62
Road Project	2917310	2907282	93		9/6/2019	9	1" and smaller	12 3/4" Steel		12 \$	1,288.19
Road Project	2917312	2907282	93		9/9/2019	9	1" and smaller	117 3/4" Steel		85 \$	2,960.28
Road Project	2917314	2907282	93		9/9/2019	9	1" and smaller	10 1/2" Plastic		70 \$	991.70
Road Project	2926494	2907282	93		9/9/2019	9	1" and smaller	84 1/2" Plastic		103 \$	2,728.02
Road Project	2926493	2907282	93		9/9/2019	9	1" and smaller	10 1/2" Plastic		103 \$	1,082.49
Road Project	2917313	2907282	93		9/9/2019	9	1" and smaller	103 1/2" Plastic		75 \$	3,031.93
Road Project	2926495	2907282	93		9/9/2019	9	1" and smaller	76 3/4" Steel		103 \$	2,420.71
Road Project	2888713	2866336	89		9/9/2019	9	1" and smaller	251 1/2" Plastic		84 \$	5,090.86
Road Project	2901767	2866336	89		9/9/2019	9	1" and smaller	368 1/2" Copper		1 \$	5,700.16
Road Project	2926236	2907282	93		9/9/2019	9	1" and smaller	8 1/2" Plastic		108 \$	1,291.68
Road Project	2907749	2866336	89		9/9/2019	9	1" and smaller	139 1" Plastic		10 \$	2,463.66
Road Project	2880170	2693363	94		9/18/2019	9	1" and smaller	171 3/4" Steel		17 \$	5,081.00
Road Project	2877260	2865956	94		9/18/2019	9	1" and smaller	51 3/4" Steel		61 \$	2,439.87
Road Project	2914933	2906367	98		9/19/2019	9	1" and smaller	111 1/2" Plastic		143 \$	2,745.48
Road Project	2916706	2906367	98		9/19/2019	9	1" and smaller	117 1/2" Plastic		123 \$	2,607.10
Road Project	2916704	2906367	98		9/19/2019	9	1" and smaller	41 1/2" Plastic		37 \$	1,578.64
Road Project	2916703	2906367	98		9/20/2019	-	1/2" Plastic	-		4 \$	1,065.69
Road Project	2951737	2948401	95		9/21/2019	9	1" and smaller	85 3/4" Steel		95 \$	4,069.44
Road Project	2951734	2948401	95		9/23/2019	9	1" and smaller	95 1/2" Plastic		105 \$	2,604.31
Road Project	2951735	2948401	95		9/23/2019	9	1" and smaller	110 1/2" Plastic		95 \$	2,844.65
Road Project	2951736	2948401	95		9/23/2019	9	1" and smaller	100 1/2" Plastic		110 \$	2,682.46
Road Project	2950894	2919228	98		9/25/2019	9	1" and smaller	81 1" Steel		81 \$	2,996.85
Road Project	2956187	2950597	95		9/30/2019	9	1" and smaller	22 3/4" Steel		30 \$	1,325.60
Road Project	2956124	2950597	95		9/30/2019	9	1" and smaller	27 3/4" Steel		35 \$	1,097.30
Road Project	2956102	2950597	95		9/30/2019	9	1" and smaller	22 3/4" Steel		25 \$	1,307.06
Road Project	2922597	2906367	98		9/30/2019	9	1" and smaller	482 1" Plastic		455 \$	8,034.65
Road Project	2956189	2693363	95		10/2/2019	10	1" and smaller	80 3/4" Steel		80 \$	2,465.79
Road Project	2956126	2950597	95		10/2/2019	10	1" and smaller	50 3/4" Steel		52 \$	2,296.84
Road Project	2956188	2950597	95		10/2/2019	10	1" and smaller	80 3/4" Steel		78 \$	2,143.29
Road Project	2956125	2950597	95		10/2/2019	10	1" and smaller	30 3/4" Steel		35 \$	1,117.06
Road Project	2868465	2856743	94		10/9/2019	10	1" and smaller	134 1/2" Plastic		- \$	4,030.64
Road Project	2868463	2856743	94		10/9/2019	10	1" and smaller	213 1/2" Plastic		155 \$	2,526.36
Road Project	2963899	2937180	95		10/10/2019	10	1" and smaller	97 1/2" Plastic		110 \$	2,702.03
Road Project	2961804	2953515	97		10/10/2019	10	1" and smaller	77 3/4" Steel		77 \$	2,176.92
Road Project	2961541	2953515	97		10/10/2019	10	1" and smaller	53 1/2" Plastic		53 \$	2,531.75
Road Project	2961779	2693363	97		10/10/2019	10	1" and smaller	71 1/2" Plastic		97 \$	2,658.00
Road Project	2961781	2953515	97		10/10/2019	10	-	1/2" Plastic		103 \$	1,527.55
Road Project	2877257	2865956	94		10/16/2019	10	1" and smaller	160 3/4" Steel		35 \$	3,944.40
Road Project	2877253	2865956	94		10/16/2019	10	1" and smaller	380 1" Plastic		136 \$	6,106.90
Road Project	2981178	2858854	93		10/24/2019	10	1" and smaller	90 1" Plastic		270 \$	2,425.42
Road Project	2986200	2867270	93		10/25/2019	10	-	1/2" Plastic		30 \$	1,594.79
Road Project	2987447	2900909	89		10/30/2019	10	1" and smaller	12 1" Plastic		1 \$	653.71
Road Project	2963898	2937180	95		11/11/2019	11	1" and smaller	77 1/2" Plastic		90 \$	1,413.92
Road Project	2964797	2937180	95		11/11/2019	11	1" and smaller	104 1" Plastic		159 \$	2,480.72
Road Project	2963941	2937180	95		11/12/2019	11	1" and smaller	94 1/2" Plastic		79 \$	3,172.89
Road Project	2963346	2937180	95		11/12/2019	11	1" and smaller	28 1/2" Plastic		57 \$	1,996.49
Road Project	2963337	2937180	95		11/12/2019	11	1" and smaller	101 1/2" Plastic		107 \$	2,954.12
Road Project	2963472	2937180	95		11/13/2019	11	1" and smaller	40 1/2" Plastic		60 \$	1,268.49
Road Project	2963345	2937180	95		11/13/2019	11	1" and smaller	65 1/2" Plastic		80 \$	2,114.40
Road Project	2963348	2937180	95		11/13/2019	11	1" and smaller	1 1/2" over		48 \$	1,051.17
Road Project	2963460	2937180	95		11/14/2019	11	1" and smaller	193 1/2" Plastic		203 \$	1,992.79
Road Project	2963347	2937180	95		11/15/2019	11	1" and smaller	42 1/2" Plastic		42 \$	1,810.43
Road Project	2762052	2693363	93		11/18/2019	11	2" plastic	238 None		- \$	5,879.84
Total					56,097			56,097		\$	1,520,806.66

. . . PRIVATE DATA ENDS]

Exhibit F

MERC's Currently Known 2020 and 2021
Right-of-Way Relocation Projects (to-date)

Location/Town	Local Governmental Unit Requiring Relocation	Project Name	Year
Deer River	MNDOT	TH-6 (SP3107-49)	2019/2020
Wadena	MNDOT	TH-10 (SP 8001-40)	2019/2020
Adams	City of Adams	2020 Utility and Street Improvements - 5th St	2020
Albert Lea	Freeborn County	Bridge Ave	2020
Albert Lea	City of Albert Lea	James Ave (7th to 8th)	2020
Albert Lea	City of Albert Lea	W Clark St (S 1st Ave to S Ermina Ave)	2020
Baudette	City of Baudette	Baudette Road Project	2020
Bemidji	City of Bemidji	Birchmont Dr NE (10th to 14th)	2020
Biwabik	MNDOT	TH-135 (SP 6912-79)	2020
Buhl	City of Buhl	Buhl Road Project	2020
Byron	City of Byron	7th St/ 10th Ave Roundabout	2020
Caledonia	Houston County	CR 3 - Mill and Overlay	2020
Cloquet	City of Cloquet	Prospect Ave Road Project	2020
Detroit Lakes	MNDOT	TH-10 (SP 0302-81)	2020
Dodge Center	City of Dodge Center	Center St/McNeilus Growth	2020
Eagan	Dakota County	Lexington & Lone Oak	2020
Eagan	Dakota County	CSAH 32 (at Rahnclyff Rd)	2020
Eagan	City of Eagan	NE Sewer Upsizing	2020
Eagan	City of Eagan	Central Parkway Revitalization	2020
Empire Township	MNDOT	TH-3 (SP1921-103)	2020
Fairmont	City of Fairmont	Lake Avenue Improvements	2020
Gilbert	MNDOT	TH-37 (SP 6914-19)	2020
Grand Rapids	City of Grand Rapids	2nd Ave NE Street Improvements	2020
Grand Rapids	City of Grand Rapids	Highway 2 West Trail	2020
Hermantown	City of Hermantown	Hermantown Street Improvements 531 & 532 (SAP 202-102-005)	2020
Houston	City of Houston	Lincoln St	2020
International Falls	City of International Falls	Local Roads - Shorewood Dr	2020
International Falls	City of International Falls	2020 Sanitary Replacement	2020
International Falls	MNDOT	TH-53 (SP3608-48)	2020
International Falls	City of International Falls	WTMN - TH63/14th	2020
Jackson	MNDOT	TH-71 & Sherman (SP 3205-34)	2020
Kenyon	City of Kenyon	Red Wing Ave	2020
LaCrescent	City of LaCrescent	Hill St and Main St	2020
LaCrescent	MNDOT/City of LaCrescent	Wagon Wheel	2020
LaCrescent	Houston County	CSAH 6	2020
Lakefield	City of Lakefield	Lakefield Street Improvements	2020
Lakeville	Dakota County	CSAH 70 (Cedar to Kenrick)	2020
Lakeville	City of Lakeville	170th St W Improvements	2020
Leroy	MNDOT	TH-56	2020
Lyle	MNDOT	TH-2018	2020
Marion	MNDOT	US Hwy 14 Bridge #55X26 (SP 5503-46)	2020
Menagha	Wadena County	CSAH 17 (SAP 080-617-008)	2020
Pengilly	MNDOT	TH-169 (SP 3116-151)	2020
Plainview	City of Plainview	Others	2020
Plainview	City of Plainview	2nd St SW	2020
Plainview	City of Plainview	Hillcrest Area	2020
Plainview	MNDOT/Wabasha County	TH-42, CR 27, CR 4 (SP 7901-52)	2020
Ranier	Koochiching County	Main St (Oak Ave to Co Rd 46)	2020
Revere	City of Revere	Watermain Replacement	2020
Rochester	Cascade Township	55th St NE (Hallmark Terrace and Zumbro Ridge Trailer Parks)	2020
Rochester	City of Rochester	Bike Path/Mill and Overlay - 3rd, 4th, and Center	2020
Rochester	City of Rochester	3rd St NW	2020
Rochester	City of Rochester	7th Ave NW/SW	2020
Rochester	City of Rochester	Broadway Ave	2020
Rochester	City of Rochester	9th Ave SW	2020
Rochester	City of Rochester	Northern Hills Dr NE	2020
Rosemount	MNDOT	TH-3 & 170th (SP 1921-102)	2020
Rosemount	Dakota County	Akron Ave (CR 73)	2020
Rosemount	City of Rosemount	Biscayne Ave Road Project	2020
Roseau	City of Roseau	8th St NE	2020
Staples	Todd County	Hospital Rd (SAP 077-593-001)	2020
Thief River Falls	City of Thief River Falls	Westside Flood Damage Reduction Project (RLWD Project #178)	2020
Thief River Falls	Pennington County	CR 61 (SAP 057-598-055)	2020
Thief River Falls	Pennington County	CSAH 8/CSAH 17 (SAP 057-608-010)	2020
Thief River Falls	MNDOT	TH-1/TH-59 Reconstruction (SP 5701-31)	2020
Thief River Falls	MNDOT	TH-1 (SP 2702-47)	2020
Thompson/Esko	Town of Thompson	Hillside Road Paving	2020
Virginia	MNDOT	TH-53 (SP6918-94)	2020
Wanamingo	City of Wanamingo	Alley east of Main St	2020
Wanamingo	MNDOT	TH-57 and 60 (SP 2509-24 & SP 2511-52)	2020
West Concord	City of West Concord	Ellington	2020
Windom	City of Windom	City of Windom Street Improvements	2020
Wrenshall	City of Wrenshall	Goad Dr, Erickson Ln, & Mason Dr Street & Stormwater Improvements	2020
Wykoff	Fillmore County	Gold St	2020

Location/Town	Local Governmental Unit Requiring Relocation	Project Name	Year
Zumbrota	Goodhue County	CSAH 6	2020
Mable	MNDOT	SP 2306-26	2020/2021
Stewartville	City of Stewartville	Lakeshore/2nd St	2020/2021
Aitkin	MNDOT	TH-210 (SP 0119-30)	2021
Detroit Lakes	City of Detroit Lakes	West Lake Dr	2021
Frazee	MNDOT	TH-87 (SP0306-31 & SP0306-32)	2021
Kasson	MNDOT/City of Kasson	Hwy 57 (SP 2007-43)	2021
Leroy	City of Leroy	City Water and Sewer	2021
Leroy	MNDOT	TH-56 (SP 5005-64)	2021
Rochester	City of Rochester	2nd St SW	2021
Rochester	City of Rochester	10th St SW	2021
Sandstone	MNDOT	TH-123 from TH-23 to CSAH 30 (SP 5802-24)	2021
Baudette	MNDOT	TH-72 (SP 3905-10)	2022
Bemidji	MNDOT	TH-71 Reclaim (SP0410-50)	2022
Frazee	MNDOT	TH-87 (SP0306-30)	2022
Castle Rock	Dakota County	County 86 Rebuild	2021/2022
International Falls	U.S. Customs	Port of Entry Relocation	TBD

Exhibit G

MERC's 2021 Gas Infrastructure Project Plan Report

2021 GAS INFRASTRUCTURE PROJECT PLAN REPORT

	Project	Project Description	Project Scope	Necessity and Benefits to Customers	Estimated Costs	In-Service Date
DIMP						
Capital						
1	Replacement of Obsolete Materials	<p>Aldyl-A: PHMSA has issued several Advisory Bulletins about certain polyethylene (“PE”) pipe material called Aldyl-A, a plastic material that becomes brittle over time and is subject to sudden failure from cracking. There is increased risk for Aldyl-A manufactured before 1973. MERC’s system contains PE pipe that was installed beginning in the 1960s and MERC estimates that approximately 390 miles of Aldyl-A main remained on the Company’s system at the end of 2019. This multi-year project will continue efforts undertaken in 2019 and 2020 to replace Aldyl-A main, with priority replacement of the main installed before 1973.</p>	<p>Aldyl-A: MERC plans to replace 42,950 feet of main and approximately 605 services across 6 communities in 2021.</p> <p>Specific details regarding the location, vintage of Aldyl-A, main footage, number of services, and costs are included in Table 4 of the Petition.</p> <p>Maps showing the specific location of the identified projects are included as Exhibit K and a schedule of planned work and in-service dates for each project is included as Exhibit L.</p>	<p>These renewal and replacement projects will deliver an enhanced level of safety to MERC’s gas system and address several risk factors including external corrosion, legacy installation techniques, legacy manufacturing techniques, and third-party damage.</p>	<p>\$3,581,350 related to Aldyl-A replacements \$533,250 related to x-Trube service replacements \$500,000 related to stop valve replacements \$85,400 related to copper/bare steel service replacements.</p> <p>Details regarding forecasted costs for each project are provided in Table 4 of the Petition.</p>	<p>Replacements planned for in-service by year-end 2021 and only replacements in service by year-end 2021 will be included for recovery in the GUIC Rider.</p> <p>Exhibit L includes forecasted project schedules and in-service dates for planned Aldyl-A replacements.</p>

	Project	Project Description	Project Scope	Necessity and Benefits to Customers	Estimated Costs	In-Service Date
		<p>X-Trube, Copper and Bare Steel: If a leak is detected on X-Trube or copper tubing, MERC must replace, rather than repair, the piping with PE or steel. Replacement is required because these materials are known to fail and repair would increase the risk of failure. So when MERC detects issues on facilities composed of X-Trube or copper, the Company must replace the facility at issue.</p> <p>Replacement of bare steel is also important because known steel on MERC's system was installed in the 1930s and was prone to corrosion</p> <p>Stop Valves: Stop valves identified to pose a risk of failure after surveyed pursuant to the meter set surveys discussed below will be replaced under MERC's obsolete materials program.</p>	<p>X-Trube, Copper, and Bare Steel: MERC plans to replace approximately 225 X-Trube services in 2021.</p> <p>Details regarding planned X-Trube replacements in 2021 are provided in Table 4 of the Petition.</p> <p>Although MERC has removed all of its known copper and bare steel, any bare steel or copper services that are found will be removed and replaced. MERC will replace any identified copper or bare steel that is identified and track it as part of our obsolete materials program.</p> <p>Stop Valves: MERC plans to replace approximately 625 stop valves in 2021.</p>			

	Project	Project Description	Project Scope	Necessity and Benefits to Customers	Estimated Costs	In-Service Date
Operations and Maintenance						
1	Meter Set Surveys	Stop valves provide the ability to isolate sections of the system in the event of an emergency or incident. For this project, MERC will continue to survey all meter set stop valves. Valves that are identified to pose a risk of failure will be replaced under MERC's obsolete materials program, and the installation costs for the new valves will be tracked under that project.	MERC proposes completing all remaining meter surveys in 2021 to complete this project. In particular, MERC plans to complete surveys of approximately 49,988 meter sets across the Company's service area.	Stop valves provide the ability to isolate sections of the system in the event of an emergency or incident to better protect the public and minimize customer impacts. Ensuring that faulty or obsolete stop valves are replaced will help ensure the continued ability for these stop valves to safeguard the public and customers if an emergency were to occur.	\$1M	Costs to be incurred in 2021
2	Sewer Cross Bore Surveys	MERC has been inspecting sewer laterals and mains under an ongoing sewer line lateral inspection program since 2014, and has determined that further inspections are prudent and necessary to identify and mitigate the risk posed by cross bores.	MERC anticipates that approximately 6,500 surveys will be completed in 2021.	Completion of these sewer cross bore surveys reduces the risk to customers and minimizes the threat of future cross bores.	\$1M	Costs to be incurred in 2021

	Project	Project Description	Project Scope	Necessity and Benefits to Customers	Estimated Costs	In-Service Date
		For 2021, MERC proposes to continue its efforts to survey services to identify conflicts with the help of a third-party contractor.				
3	Service Line Mapping	MERC currently does not have its service lines mapped to GIS, which creates challenges for identifying and remediating service line risks. This project will take the comprehensive database of service line information previously compiled during phase 2 of the Company's mapping project, map the presumed service line information to GIS, and subsequently verify the locational accuracy of the mapped service lines.	MERC will begin linking previously-compiled service line information to the Company's GIS. A third-party contractor will then verify the locational accuracy of the mapped service lines.	Completion of the service line mapping project is necessary to address the current data gap on MERC's system to allow the Company to identify and track risks, and to help prevent third-party damage from excavation activities.	\$1M	Costs to be incurred in 2021
4	Excess Flow Valve Costs	In Docket No. G999/CI-18-41, the Commission authorized recovery of excess flow valve ("EFV") compliance costs through GUIC Rider filings. MERC proposes to include its forecasted costs related to customer	MERC proposes to visit approximately 20 percent of the identified customers who are eligible under the federal standards for EFVs and do not currently have an EFV or curb valve installed, and to utilize a	EFVs are safety devices installed on natural gas distribution pipelines that can reduce the risk of explosions in these pipelines by automatically	\$101,348	MERC plans to visit approximately 20 percent of identified customers eligible for EFV installation that do not currently

	Project	Project Description	Project Scope	Necessity and Benefits to Customers	Estimated Costs	In-Service Date
		<p>outreach and customer meetings to those customers who are eligible for but do not currently have an EFV or curb valve installed.</p> <p>To the extent that customer outreach results in installation of EFVs or curb valves, MERC proposes that costs of those installations and associated maintenance be deferred for recovery through MERC's 2021 true-up.</p>	third-party contractor to undertake the outreach and customer meetings.	stopping excessive, unplanned gas flows. It is therefore beneficial, as well as Commission ordered, to engage in customer outreach with information about these safety devices.		have an EFV or curb valve installed.
RIGHT-OF-WAY RELOCATION PROJECTS						
Capital						
1	Road and Public Work Projects	Replacement of natural gas facilities located in the public right-of-way required by the construction or improvement of a highway, road, street, public building, or other public work by the state or a political subdivision. Each year, MERC is	MERC is not informed of specific future right-of-way relocation work with enough lead time to include such projects in the Company's forecast. Rather, federal, state, or local government units request MERC to relocate facilities within the right-of-way	Right-of-way relocations are needed to help ensure construction or improvements of road infrastructure and other public works are able to be completed in a timely, comprehensive,	<p>\$6,340,000</p> <p>See Table 2 and Section II.A.1 of MERC's Petition for a discussion of MERC's 2021 forecasted costs related to</p>	Planned for in-service by year-end 2021; only replacements in service by year-end 2021 will be included for recovery in the GUIC Rider.

[illegible]

Exhibit H

Discussion of the Magnitude of Proposed GUIC
and Known Future Projects as required by Minn.
Stat. § 216B.1635, subd.4(vi), (vii), and (viii)

(1) Minn. Stat. § 216B.1635, subd. 4(2)(iv)

The magnitude and timing of any known future gas utility projects that the utility may seek to recover under this section.

In future years, MERC anticipates total capital spending on GUIC-eligible projects for right-of-way relocation and integrity work to continue at or above historical levels with a tracker and formal review process to ensure that only the return on and of GUIC-qualified projects will be recovered through the GUIC Rider. As discussed in the Petition, while MERC has budgeted for lower obsolete materials replacement project costs in 2021 relative to recent years due to other planned capital spending in 2021, the Company anticipates increased spending related to distribution integrity management projects in future years.

For 2021, in addition to capital projects, MERC has forecasted GUIC Rider recovery of \$3,101,384 for incremental operations and maintenance costs for the sewer cross bore survey project, meter set survey project, service line mapping project, and excess flow valve customer outreach project. While MERC expects to complete the meter set survey project in 2021, the Company anticipates these other surveys and projects to continue in future years.

Potential projects that could be included in future GUIC rider recovery, other than the obvious right-of-way projects and DIMP projects, may include MERC's replacement of farm tap customer-owned fuel lines with utility-owned lines meeting federal and state safety and reliability standards, costs related to the installation of excess flow valves and other compliance with Commission directives related to excess flow valves, and system upgrades and replacements to address system pressure issues.

(2) Minn. Stat. § 216B.1635, subd. 4(2)(vii)

The magnitude of GUIC in relation to the gas utility's base revenue as approved by the commission in the gas utility's most recent general rate case, exclusive of gas purchase costs and transportation charges.

2021 GUIC Revenue Requirement (including 2019 true-up)	\$6,647,683
2018 Rate Case Approved Margin Revenues (Docket No. G011/GR-17-563)	\$110,507,391
GUIC as % of Margin	6.02%

(3) Minn. Stat. § 216B.1635, subd. 4(2)(viii)

The magnitude of GUIC in relation to the gas utility's capital expenditures since its most recent general rate case.

2021 Forecasted GUIC Capital Expenditures	\$11,040,000
2018 Actual Capital Expenditures	\$68,622,507
2021 GUIC Capital Expenditures as % of 2018 Actuals	16.09%
2019 Actual Capital Expenditures	\$81,387,791
2021 GUIC Capital Expenditures as a % of 2019 Actuals	13.56%

Exhibit I

MERC's 2019 GUIC True-up Calculation and Tracker Balance

**GUIC Rider 2019 True-up
Revenue Requirement on GUIC projects**

Line	Description	Reference	Forecasted 2019	Actual 2019
1	Expense	O&M Expense	3,000,000	1,743,849
2	Expense	Depreciation Expense	133,090	57,381
3	Rate Base	13-Month Average Net Plant Value	5,250,459	3,580,946
4	Accumulated Deferred Income Tax Proration Adjustment		2,581	-
5	Adjusted Rate Base	13-Month Average Net Plant Value	5,253,039	3,580,946
6	Rate of Return	Commission Authorized 2018 Rate Case	6.6971%	6.6971%
7	Earnings on Rate Base	Line 5 x Line 6	351,801	239,820
8	Gross Revenue Conversion Factor	2018 Rate Case Adjusted for Tax Reform	1.402	1.402
9	Return on Rate Base	Line 7 x Line 8	493,225	336,227
10				
11	Total Revenue Requirement	Line 1 + Line 2 + Line 9	3,626,315	2,137,457
12				
13	2019 Rider Revenue Collected			1,497,598
14				
15	** Total Adjustment: Over/(Under) Collection - to be collected within the 2021 GUIC Rider			(639,859)

GUIC Rider 2019 True-up
Total Mains, Services, Stations
Revenue Requirement

				Plant In	Accumulated	Accumulated		DFIT Proration		Depreciation	
	Month	Construction Expenditures	CWIP Balance	Service Balance, net	Depreciation	Deferred Tax	Rate Base	Adjust (N/A for Actuals)	Adjusted Rate Base	Return of	O&M
2018	Dec-18	-	-	-	-	-	-	-	-	-	-
2019	Jan-19	-	-	-	-	-	-	-	-	-	-
2019	Feb-19	562	562	-	-	-	-	-	-	-	102
2019	Mar-19	20,140	13,656	5,911	1,134	(341)	6,704	-	6,704	-	-
2019	Apr-19	467,460	372,374	97,148	18,627	(5,687)	110,088	-	110,088	12	459
2019	May-19	2,630,831	1,721,804	1,216,196	181,565	(57,492)	1,340,269	-	1,340,269	195	1,148
2019	Jun-19	1,687,541	2,064,952	2,477,556	297,029	(98,458)	2,676,127	-	2,676,127	2,304	38,220
2019	Jul-19	1,336,824	1,734,916	4,088,442	355,955	(127,669)	4,316,727	-	4,316,727	4,416	143,385
2019	Aug-19	1,257,249	2,217,726	4,653,219	560,869	(194,117)	5,019,971	-	5,019,971	6,964	288,759
2019	Sep-19	1,580,658	3,337,376	5,013,231	667,082	(231,633)	5,448,680	-	5,448,680	7,981	408,386
2019	Oct-19	1,366,220	2,523,554	7,047,133	812,278	(295,962)	7,563,449	-	7,563,449	8,707	311,523
2019	Nov-19	654,011	1,032,399	8,955,068	1,041,096	(386,665)	9,609,500	-	9,609,500	11,941	326,021
2019	Dec-19	65,291	140,128	9,627,253	1,313,539	(480,006)	10,460,786	-	10,460,786	14,862	225,845

Minnesota Energy Resources Corporation
GUIC 2019 True-up Revenue Requirement

Gas Mains Summary

Month	Net Plant In Service			Depr. Calculation			Accumulated Depreciation				
	Additions	Retirements	Net Accumulated Investment	Beginning of the Month Addition	Annual Depr. Rate	Deprec Exp (NetDep)	Depreciation	Retirement	Cost Of Removal	Salvage	End Bal
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]
12/1/2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ 272,878	\$ -	\$ 272,878	\$ -	\$ -	\$ (780)	\$ 780	\$ -	\$ -	\$ -	\$ 780
6/1/2019	\$ 828,599	\$ -	\$ 1,101,477	\$ 272,878	\$ -	\$ (34,325)	\$ 34,325	\$ -	\$ -	\$ -	\$ 35,106
7/1/2019	\$ 1,351,495	\$ -	\$ 2,452,972	\$ 1,101,477	\$ -	\$ (11,920)	\$ 11,920	\$ -	\$ -	\$ -	\$ 47,026
8/1/2019	\$ 231,291	\$ -	\$ 2,684,263	\$ 2,452,972	\$ -	\$ (144,213)	\$ 144,213	\$ -	\$ -	\$ -	\$ 191,239
9/1/2019	\$ (6,000)	\$ -	\$ 2,678,263	\$ 2,684,263	\$ -	\$ (39,942)	\$ 39,942	\$ -	\$ -	\$ -	\$ 231,181
10/1/2019	\$ 1,673,785	\$ -	\$ 4,352,049	\$ 2,678,263	\$ -	\$ (80,790)	\$ 80,790	\$ -	\$ -	\$ -	\$ 311,971
11/1/2019	\$ 1,790,457	\$ -	\$ 6,142,505	\$ 4,352,049	\$ -	\$ (211,691)	\$ 211,691	\$ -	\$ -	\$ -	\$ 523,662
12/1/2019	\$ 664,295	\$ -	\$ 6,806,800	\$ 6,142,505	\$ -	\$ (276,577)	\$ 276,577	\$ -	\$ -	\$ -	\$ 800,239
	\$ 6,806,800	\$ -				\$ (800,239)	\$ 800,239	\$ -	\$ -	\$ -	

Minnesota Energy Resources Corporation
GUIC 2019 True-up Revenue Requirement

Gas Mains Summary

Deferred Income Taxes									
Month	Tax Addition	Tax Depr.	Tax Gain/(Loss) on Retirements	Book/Tax Difference	Bonus Effect	NOL	Deferred Tax	End Bal	Rate Base
					0.0000%	0.0000%	-		
	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T] = [C] + [K] + [S]
12/1/2018									
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ 272,878	\$ (4,264)	\$ -	\$ (5,044)	\$ -	\$ -	\$ (1,446)	\$ (1,446)	\$ 272,212
6/1/2019	\$ 828,599	\$ (16,389)	\$ -	\$ (50,714)	\$ -	\$ -	\$ (14,537)	\$ (15,983)	\$ 1,120,599
7/1/2019	\$ 1,351,495	\$ (33,006)	\$ -	\$ (44,926)	\$ -	\$ -	\$ (12,878)	\$ (28,861)	\$ 2,471,137
8/1/2019	\$ 231,291	\$ (13,448)	\$ -	\$ (157,661)	\$ -	\$ -	\$ (45,193)	\$ (74,054)	\$ 2,801,448
9/1/2019	\$ (6,000)	\$ (8,219)	\$ -	\$ (48,161)	\$ -	\$ -	\$ (13,805)	\$ (87,859)	\$ 2,821,585
10/1/2019	\$ 1,673,785	\$ (60,676)	\$ -	\$ (141,466)	\$ -	\$ -	\$ (40,551)	\$ (128,410)	\$ 4,535,610
11/1/2019	\$ 1,790,457	\$ (75,147)	\$ -	\$ (286,838)	\$ -	\$ -	\$ (82,221)	\$ (210,631)	\$ 6,455,537
12/1/2019	\$ 664,295	\$ (44,106)	\$ -	\$ (320,683)	\$ -	\$ -	\$ (91,923)	\$ (302,553)	\$ 7,304,487
	\$ 6,806,800	\$ (255,255)	\$ -	\$ (1,055,494)	\$ -	\$ -	\$ (302,553)		
							21.0000%		
							7.6646%		

2018 & Fwd	
Federal Tax Rate	<u>0.21</u>
MN Tax Rate	<u>0.098</u>
MN Apportionmen	<u>0.989671</u>
MI Tax Rate	<u>0.06</u>
MI Apportionment	<u>0.000542</u>

Minnesota Energy Resources Corporation
GUIC 2019 True-up Revenue Requirement

Gas Mains Summary

Month	Book/Tax Differ	Bonus Effect	NOL	Deferred Tax	Deferred Tax	Deferred Tax	Federal	Proration	Federal	Federal	Monthly Prorated Balance
	Balance	Balance	Balance	Federal 21.0000%	Federal NOL 21.0000%	State 7.6646%	Def Tax Activity	Adjusted Activity Factor * Activity	13-Mo Ave DFIT Activity	13mo Ave DFIT Activity Differ	Adjustment
12/1/2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		0			
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ (5,044)	\$ -	\$ -	\$ -	\$ (1,059)	\$ (387)	2019 \$ (1,059.31)	\$ (623.98)	\$ (81.49)	\$ (542.49)	\$ (542)
6/1/2019	\$ (55,759)	\$ -	\$ -	\$ -	\$ (11,709)	\$ (4,274)	2019 \$ (10,650.00)	\$ (5,397.94)	\$ (900.72)	\$ (4,497.23)	\$ (5,040)
7/1/2019	\$ (100,685)	\$ -	\$ -	\$ -	\$ (21,144)	\$ (7,717)	2019 \$ (9,434.49)	\$ (3,980.58)	\$ (1,626.45)	\$ (2,354.13)	\$ (7,394)
8/1/2019	\$ (258,346)	\$ -	\$ -	\$ -	\$ (54,253)	\$ (19,801)	2019 \$ (33,108.91)	\$ (11,157.24)	\$ (4,173.29)	\$ (6,983.95)	\$ (14,378)
9/1/2019	\$ (306,507)	\$ -	\$ -	\$ -	\$ (64,366)	\$ (23,493)	2019 \$ (10,113.73)	\$ (2,576.93)	\$ (4,951.26)	\$ 2,374.34	\$ (12,003)
10/1/2019	\$ (447,973)	\$ -	\$ -	\$ -	\$ (94,074)	\$ (34,335)	2019 \$ (29,707.89)	\$ (5,046.27)	\$ (7,236.49)	\$ 2,190.22	\$ (9,813)
11/1/2019	\$ (734,811)	\$ -	\$ -	\$ -	\$ (154,310)	\$ (56,320)	2019 \$ (60,236.03)	\$ (5,280.95)	\$ (11,870.03)	\$ 6,589.07	\$ (3,224)
12/1/2019	\$ (1,055,494)	\$ -	\$ -	\$ -	\$ (221,654)	\$ (80,899)	2019 \$ (67,343.46)	\$ (184.52)	\$ (17,050.29)	\$ 16,865.77	\$ 13,642
				\$ (47,890.01)				\$ (34,248.41)	\$ (47,890.01)	\$ 13,641.59	
				^13-mo Ave Balance^				BOY FED ADIT	\$ -	\$ -	
							Prorated ADIT>	\$ (34,248.41)	\$ (47,890.01)	<13-Mo Ave ADIT	\$ 13,641.59

Minnesota Energy Resources Corporation
GUIC 2019 True-up Revenue Requirement

Gas Services Summary

Month	Net Plant In Service			Depr. Calculation			Accumulated Depreciation				
	Additions	Retirements	Net Accumulated Investment	Beginning of the Month Addition	Annual Depr. Rate	Deprec Exp (NetDep)	Depreciation	Retirement	Cost Of Removal	Salvage	End Bal
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]
12/1/2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ 5,911	\$ -	\$ 5,911	\$ -	\$ -	\$ (1,134)	\$ 1,134	\$ -	\$ -	\$ -	\$ 1,134
4/1/2019	\$ 91,237	\$ -	\$ 97,148	\$ 5,911	\$ -	\$ (17,493)	\$ 17,493	\$ -	\$ -	\$ -	\$ 18,627
5/1/2019	\$ 846,170	\$ -	\$ 943,318	\$ 97,148	\$ -	\$ (162,158)	\$ 162,158	\$ -	\$ -	\$ -	\$ 180,785
6/1/2019	\$ 432,761	\$ -	\$ 1,376,079	\$ 943,318	\$ -	\$ (81,139)	\$ 81,139	\$ -	\$ -	\$ -	\$ 261,924
7/1/2019	\$ 259,390	\$ -	\$ 1,635,470	\$ 1,376,079	\$ -	\$ (47,005)	\$ 47,005	\$ -	\$ -	\$ -	\$ 308,929
8/1/2019	\$ 333,486	\$ -	\$ 1,968,956	\$ 1,635,470	\$ -	\$ (60,700)	\$ 60,700	\$ -	\$ -	\$ -	\$ 369,629
9/1/2019	\$ 366,012	\$ -	\$ 2,334,968	\$ 1,968,956	\$ -	\$ (66,272)	\$ 66,272	\$ -	\$ -	\$ -	\$ 435,901
10/1/2019	\$ 360,117	\$ -	\$ 2,695,085	\$ 2,334,968	\$ -	\$ (64,406)	\$ 64,406	\$ -	\$ -	\$ -	\$ 500,307
11/1/2019	\$ 117,478	\$ -	\$ 2,812,563	\$ 2,695,085	\$ -	\$ (17,127)	\$ 17,127	\$ -	\$ -	\$ -	\$ 517,434
12/1/2019	\$ 7,890	\$ -	\$ 2,820,453	\$ 2,812,563	\$ -	\$ 4,135	\$ (4,135)	\$ -	\$ -	\$ -	\$ 513,299
	\$ 2,820,453	\$ -				\$ (513,299)	\$ 513,299	\$ -	\$ -	\$ -	

Minnesota Energy Resources Corporation
GUIC 2019 True-up Revenue Requirement

Gas Services Summary

Deferred Income Taxes									
Month	Tax Addition	Tax Depr.	Tax Gain/(Loss) on Retirements	Book/Tax Difference	Bonus Effect	NOL	Deferred Tax	End Bal	Rate Base
					0.0000%	0.0000%	-		
	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T] = [C] + [K] + [S]
12/1/2018									
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ 5,911	\$ (55)	\$ -	\$ (1,189)	\$ -	\$ -	\$ (341)	\$ (341)	\$ 6,704
4/1/2019	\$ 91,237	\$ (1,159)	\$ -	\$ (18,652)	\$ -	\$ -	\$ (5,347)	\$ (5,687)	\$ 110,088
5/1/2019	\$ 846,170	\$ (13,525)	\$ -	\$ (175,683)	\$ -	\$ -	\$ (50,359)	\$ (56,046)	\$ 1,068,057
6/1/2019	\$ 432,761	\$ (11,062)	\$ -	\$ (92,201)	\$ -	\$ -	\$ (26,429)	\$ (82,475)	\$ 1,555,528
7/1/2019	\$ 259,390	\$ (9,975)	\$ -	\$ (56,980)	\$ -	\$ -	\$ (16,333)	\$ (98,808)	\$ 1,845,590
8/1/2019	\$ 333,486	\$ (13,448)	\$ -	\$ (74,148)	\$ -	\$ -	\$ (21,254)	\$ (120,063)	\$ 2,218,522
9/1/2019	\$ 366,012	\$ (16,447)	\$ -	\$ (82,719)	\$ -	\$ -	\$ (23,711)	\$ (143,774)	\$ 2,627,095
10/1/2019	\$ 360,117	\$ (18,550)	\$ -	\$ (82,956)	\$ -	\$ -	\$ (23,779)	\$ (167,553)	\$ 3,027,839
11/1/2019	\$ 117,478	\$ (12,461)	\$ -	\$ (29,588)	\$ -	\$ -	\$ (8,481)	\$ (176,034)	\$ 3,153,963
12/1/2019	\$ 7,890	\$ (9,085)	\$ -	\$ (4,950)	\$ -	\$ -	\$ (1,419)	\$ (177,453)	\$ 3,156,299
	\$ 2,820,453	\$ (105,767)	\$ -	\$ (619,066)	\$ -	\$ -	\$ (177,453)		
							21.0000%		
							7.6646%		

2018 & Fwd	
Federal Tax Rate	<u>0.21</u>
MN Tax Rate	<u>0.098</u>
MN Apportionment	<u>0.989671</u>
MI Tax Rate	<u>0.06</u>
MI Apportionment	<u>0.000542</u>

Minnesota Energy Resources Corporation
GUIC 2019 True-up Revenue Requirement

Gas Services Summary

Month	Book/Tax Differ	Bonus Effect	NOL	Deferred Tax	Deferred Tax	Deferred Tax	Federal	Proration	Federal	Federal
	Balance	Balance	Balance	Federal 21.0000%	Federal NOL 21.0000%	State 7.6646%	Def Tax Activity	Adjusted Activity Factor * Activity	13-Mo Ave DFIT Activity	Federal Prorated - 13mo Ave DFIT Activity Differ
12/1/2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		0		
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -
3/1/2019	\$ (1,189)	\$ -	\$ -	\$ (250)	\$ -	\$ (91)	2019 \$ (249.69)	\$ (188.81)	\$ (19.21)	\$ (169.60)
4/1/2019	\$ (19,841)	\$ -	\$ -	\$ (4,167)	\$ -	\$ (1,521)	2019 \$ (3,916.95)	\$ (2,639.92)	\$ (320.51)	\$ (2,319.41)
5/1/2019	\$ (195,524)	\$ -	\$ -	\$ (41,060)	\$ -	\$ (14,986)	2019 \$ (36,893.40)	\$ (21,731.73)	\$ (3,158.46)	\$ (18,573.26)
6/1/2019	\$ (287,725)	\$ -	\$ -	\$ (60,422)	\$ -	\$ (22,053)	2019 \$ (19,362.11)	\$ (9,813.67)	\$ (4,647.86)	\$ (5,165.81)
7/1/2019	\$ (344,705)	\$ -	\$ -	\$ (72,388)	\$ -	\$ (26,420)	2019 \$ (11,965.88)	\$ (5,048.62)	\$ (5,568.31)	\$ 519.69
8/1/2019	\$ (418,853)	\$ -	\$ -	\$ (87,959)	\$ -	\$ (32,103)	2019 \$ (15,571.17)	\$ (5,247.27)	\$ (6,766.09)	\$ 1,518.83
9/1/2019	\$ (501,572)	\$ -	\$ -	\$ (105,330)	\$ -	\$ (38,444)	2019 \$ (17,370.92)	\$ (4,426.02)	\$ (8,102.32)	\$ 3,676.29
10/1/2019	\$ (584,528)	\$ -	\$ -	\$ (122,751)	\$ -	\$ (44,802)	2019 \$ (17,420.68)	\$ (2,959.13)	\$ (9,442.37)	\$ 6,483.24
11/1/2019	\$ (614,116)	\$ -	\$ -	\$ (128,964)	\$ -	\$ (47,070)	2019 \$ (6,213.56)	\$ (544.75)	\$ (9,920.34)	\$ 9,375.59
12/1/2019	\$ (619,066)	\$ -	\$ -	\$ (130,004)	\$ -	\$ (47,449)	2019 \$ (1,039.59)	\$ (2.85)	\$ (10,000.30)	\$ 9,997.46
				\$ (57,945.77)				\$ (52,602.75)	\$ (57,945.77)	\$ 5,343.01
				^13-mo Ave Balance^			BOY FED ADIT	\$ -	\$ -	
							Prorated ADIT>	\$ (52,602.75)	\$ (57,945.77)	<13-Mo Ave ADIT

Minnesota Energy Resources Corporation
GUIC 2019 True-up Revenue Requirement

Gas Stations Summary

Month	Net Plant In Service			Depr. Calculation			Accumulated Depreciation				
	Additions	Retirements	Net Accumulated Investment	Beginning of the Month Addition	Annual Depr. Rate	Deprec Exp (NetDep)	Depreciation	Retirement	Cost Of Removal	Salvage	End Bal
	[A]	[B]	[C]	[D]	[E]	[F]	[G]	[H]	[I]	[J]	[K]
12/1/2018	\$ -	\$ -	\$ -								
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Minnesota Energy Resources Corporation
GUIC 2019 True-up Revenue Requirement

Gas Stations Summary

Month	Deferred Income Taxes								Rate Base
	Tax Addition	Tax Depr.	Tax Gain/(Loss) on Retirements	Book/Tax Difference	Bonus Effect	NOL	Deferred Tax	End Bal	
					0.0000%	0.0000%	-		
	[L]	[M]	[N]	[O]	[P]	[Q]	[R]	[S]	[T] = [C] + [K] + [S]
12/1/2018									
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
6/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
9/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
11/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
							21.0000%		
							7.6646%		

2018 & Fwd	
Federal Tax Rate	<u>0.21</u>
MN Tax Rate	<u>0.098</u>
MN Apportionment	<u>0.989671</u>
MI Tax Rate	<u>0.06</u>
MI Apportionment	<u>0.000542</u>

Minnesota Energy Resources Corporation
GUIC 2019 True-up Revenue Requirement

Gas Stations Summary

Month	Book/Tax Differ	Bonus Effect	NOL	Deferred Tax	Deferred Tax	Deferred Tax	Federal	Proration	Federal	Federal	Monthly
	Balance	Balance	Balance	Federal	Federal NOL	State	Def Tax Activity	Adjusted Activity	13-Mo Ave DFIT	13mo Ave DFIT	Prorated
				21.0000%	21.0000%	7.6646%		Factor * Activity	Activity	Activity Differ	Balance
											Adjustment
12/1/2018	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		0			
1/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
2/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
3/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
4/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
5/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
6/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
7/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
8/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
9/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
10/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
11/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
12/1/2019	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	2019 \$ -	\$ -	\$ -	\$ -	\$ -
				\$ -				\$ -	\$ -	\$ -	
				^13-mo Ave Balance^			BOY FED ADIT	\$ -	\$ -	\$ -	
							Prorated ADIT>	\$ -	\$ -	<13-Mo Ave ADIT	\$ -

MERC
GUIC Tracker
2019

Month	Billed Revenue				Revenue Requirement **	Cumulative Tracker Balance
	Residential	Commercial/Industrial (Firm and Interruptible)	Transportation	Total		
Jan-19						-
Feb-19					102	102
Mar-19					-	102
Apr-19					524	626
May-19					2,204	2,830
Jun-19	26,678	25,097	191,291	243,065	51,011	(189,224)
Jul-19	14,320	21,004	171,504	206,828	168,740	(227,312)
Aug-19	(5,080)	(7,593)	191,004	178,331	329,499	(76,143)
Sep-19	13,435	15,736	171,102	200,273	455,645	179,229
Oct-19	22,744	23,867	81,135	127,746	362,863	414,346
Nov-19	78,600	72,409	99,572	250,581	397,141	560,906
Dec-19	106,507	92,422	91,845	290,774	315,896	586,028
TOTALS	257,204	242,941	997,452	1,497,598	2,083,626	

** Note - Represents a depiction of the monthly calculation of Revenue Requirements, based upon current Rate of Return and Gross Conversion factor applied against the previous month's ending Rate Base balance. This monthly calculation is performed in order to compute a Tracker Balance each month. This monthly calculation of Revenue Requirement will not tie to the computation of Revenue Requirements for the entire year of 2019 based upon a 13-month average.

Exhibit J

Details Regarding MERC's actual 2019 Obsolete
Materials Replacement Projects

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

Project Type	WBS Element	WR #	Project Name	Address	City	Description	Governmental Entity	Const Complete Date
AA	NA	2693360	GUIC - DIMP SVC REPL - OBSOLETE MATERIALS - AA	ASSORTED	ASSORTED	See service line tab for details	PHMSA (DIMP)	VARIOUS
AA	Q-4605-000647	2746693	FM-GUIC AA REPLACE-BROADWAY AVE (ALDEN)	BROADWAY AVENUE	ALDEN	Replace 60s vintage AA with ~630' 2PE	PHMSA (DIMP)	5/8/2019
AA	Q-4605-000794	2775040	FM-GUIC AA REPLACEMENT (ALDEN)	MORIN ST & SCOTTIE LN	ALDEN	Replace 70s vintage AA with ~720' 2PE	PHMSA (DIMP)	4/29/2019
AA	Q-4605-000795	2775065	FM-GUIC AA REPLACEMENT (ELLENDALE)	6th St N, 5th St N, 8th Ave E	ELLENDALE	Replace 60s & 70s vintage AA with ~1,810' 2PE	PHMSA (DIMP)	6/25/2019
AA	Q-4605-000796	2776416	FM-GUIC AA REPLACEMENT (WELLS)	VARIOUS	WELLS	Replace 60s vintage AA with ~1,250' 2PE	PHMSA (DIMP)	6/7/2019
AA	Q-4605-000797	2775075	FM-GUIC AA REPLACEMENT (EMMONS)	OAK ST	EMMONS	Replace 60s vintage AA with ~470' 2PE	PHMSA (DIMP)	4/22/2019
AA	Q-4605-000799	2847849	RO-GUIC AA REPLACEMENT-9TH ST NW	9TH ST NW & W CIRCLE DR	ROCHESTER	Replace 80s vintage AA with ~4,600' 2PE/4PE	PHMSA (DIMP)	7/24/2019
AA	Q-4605-000800	2847679	RO-GUIC AA REPLACEMENT-MCNEILUS 1ST SUB	11TH AVE & 8TH ST	DODGE CENTER	Replace 80s vintage AA main with ~3,850' of 4PE/2PE.	PHMSA (DIMP)	9/23/2019
AA	Q-4605-000801	2847503	RO-GUIC AA REPLACEMENT-2ND AVE & 2ND ST	2ND AVE & 2ND ST NW	DODGE CENTER	Replace 80s vintage AA with ~370' 2PE	PHMSA (DIMP)	5/16/2019
AA	Q-4605-000803	2846177	RO-GUIC AA REPLACEMENT-DRS 11 OUTLET	CIVIC CENTER DR NW	ROCHESTER	Replace 80s vintage AA with ~700' 4PE	PHMSA (DIMP)	11/26/2019
AA	Q-4605-000804	2846033	RO-GUIC AA REPLACEMENT-WOODLAKE DR SE	WOODLAKE DR SE	ROCHESTER	Replace 80s vintage AA with ~2,800' 2PE	PHMSA (DIMP)	5/6/2019
AA	Q-4605-000805	2845753	RO-GUIC AA REPLACEMENT-9 1/2 ST SE	9 1/2 ST SE	ROCHESTER	Replace 80s vintage AA with ~2,300' 2PE/4PE/6PE	PHMSA (DIMP)	9/9/2019
AA	Q-4605-000806	2845617	RO-GUIC AA REPLACEMENT-5TH ST & 12TH AVE	5TH ST & 12TH AVE NW	KASSON	Replace 70s vintage AA with ~3650' 2PE	PHMSA (DIMP)	7/8/2019
AA	Q-4605-000807	2845248	RO-GUIC AA REPLACEMENT-1ST AVE NE BYRON	1ST AVE & ROLLING HEIGHTS CT	BYRON	Replace 80s vintage AA with ~7,200' 2PE	PHMSA (DIMP)	5/29/2019
AA	Q-4605-000808	2845123	RO-GUIC AA REPLACEMENT-MEADOWLARK CT	MEADOWLARK CT	BYRON	Replace 60s/70s/80s vintage AA with ~2,900' 2PE	PHMSA (DIMP)	8/12/2019
AA	Q-4605-000809	2844877	RO-GUIC AA REPLACEMENT-CLIFF ST	CLIFF ST	CHATFIELD	Replace 70s vintage AA with ~650' 2PE	PHMSA (DIMP)	5/24/2019
AA	Q-4605-000810	2844834	RO-GUIC AA REPLACEMENT-CLIFF CIRCLE	CLIFF CIRCLE	CHATFIELD	Replace 70s vintage AA with ~460' 2PE	PHMSA (DIMP)	4/29/2019
AA	Q-4605-000811	2844752	RO-GUIC AA REPLACEMENT-BENNETT ST	BENNETT ST	CHATFIELD	Replace 70s vintage AA with ~680' 2PE	PHMSA (DIMP)	9/16/2019
AA	Q-4605-000812	2844610	RO-GUIC AA REPLACEMENT-WHALEN VALLEY RD	WAHLEN VALLEY RD	CHATFIELD	Replace 70s vintage AA with ~1580' 2PE	PHMSA (DIMP)	5/14/2019
AA	Q-4605-000813	2844598	RO-GUIC AA REPLACEMENT-BURR OAK ST NORTH	BURR OAK ST	CHATFIELD	Replace 70s vintage AA with ~6250' 2PE/4PE	PHMSA (DIMP)	10/28/2019
AA	Q-4605-000814	2859356	RM-GUIC AA REPLACEMENT (LAKEVILLE)	210TH ST W	LAKEVILLE	Replace 80s vintage AA with ~25' PE and 2" valve	PHMSA (DIMP)	7/1/2019
AA	Q-4605-000815	2844627	RO-GUIC AA REPLACEMENT-SPRING VALLEY VAR	VARIOUS	SPRING VALLEY	Replace 70s/80s vintage AA with ~2,680' 2PE	PHMSA (DIMP)	11/11/2019
AA	Q-4605-000817	2859855	RO-GUIC AA REPLACEMENT-60TH AVE NW	60TH AVE NW	ROCHESTER	Replace 70s vintage AA with ~6,090' 6PE	PHMSA (DIMP)	12/20/2019
AA	Q-4605-000818	2845757	RO-GUIC AA REPLACEMENT-ST. MARY'S HILLS	ST. MARY HILLS	ROCHESTER	Replace 60s/70s vintage AA with ~12,260' 2PE.	PHMSA (DIMP)	9/30/2019
AA	Q-4605-000841	2877997	PC-GUIC-RUSH CITY AA REPLACE 4 IN	VARIOUS	RUSH CITY	Replace 60s vintage AA with ~11,770' 2PE/4PE	PHMSA (DIMP)	10/29/2019
AA	Q-4605-000865	2881359	FM-GUIC - AA REPLACEMENT (LAKEFIELD)	PLEASANT STREET/3RD AVENUE NORTH	LAKEFIELD	Replace 70s vintage AA with ~180' 2PE	PHMSA (DIMP)	8/13/2019
AA	Q-4605-000902	2893330	FM-GUIC-AA RETIREMENT BROADWAY (ALDEN)	BROADWAY AVENUE	ALDEN	Abandon ~370' of 60s vintage AA. 4 SVCs replaced long side to PE across street. 2 SVCs to be retired.	PHMSA (DIMP)	5/9/2019
AA	Q-4605-000950	2906370	PC-GUIC 2019 AA REPLACEMENT PROJECT	7TH AVE NE	PINE CITY	Replace 70s vintage AA with ~1,030' 2PE	PHMSA (DIMP)	9/16/2019
AA	Q-4605-001073	2851183	PC-GUIC AA REPL PROJECT 2019 MORA	RIVERSIDE ST AND FAIR OAKS DR	MORA	Replace 60s vintage AA with ~2,700' 2" PE main	PHMSA (DIMP)	11/1/2019
AA	Q-4605-001107	2801469	PC-GUIC RUSH CITY AA MAIN REPL 2 IN SECT	VARIOUS	RUSH CITY	Replace 60s vintage AA with ~2,340' 2PE	PHMSA (DIMP)	9/23/2019
AA	Q-4605-001130	2968818	WA-GUIC AA HEWITT PHASE 1	VARIOUS	HEWITT	Replace 70s vintage AA with ~2,500' 2PE	PHMSA (DIMP)	12/5/2019
AA	Q-4605-001131	2969082	BM-GUIC LAKEVIEW DR SW	LAKEVIEW DR SW	BEMIDJI	Replace 80s vintage AA with ~2,150' 2PE	PHMSA (DIMP)	11/22/2019
Bare Steel	Q-4605-000993	2922096	FM-MERC BARE STEEL OAK RIDGE (FAIRMONT)	OAK RIDGE RD	FAIRMONT	Replace ~545' 2" bare steel with PE.	PHMSA (DIMP)	8/12/2019
Bare Steel	Q-4605-001015	2931274	RO-GUIC BARE STEEL10TH ST (ROCHESTER)	10TH STREET SW	ROCHESTER	Leak Repair replace ~10' bare steel main.	PHMSA (DIMP)	7/22/2019
X-trube	NA	2693360	GUIC - DIMP SVC REPL - OBSOLETE MATERIALS - X-TRUBE	ASSORTED	ASSORTED	See service line tab for details	PHMSA (DIMP)	VARIOUS
X-trube	Q-4605-000842	2868816	RO-GUIC - XTRUBE (SPRING GROVE)	3RD AVENUE SE/4TH AVENUE SE	SPRING GROVE	Install ~2150' 2" PE Replacement main needed to replace X-trube services (repl 900' 1-1/4" WS)	PHMSA (DIMP)	6/21/2019
X-trube	Q-4605-000852	2872976	RO-GUIC - XTRUBE HWY 44 (SPRING GROVE)	HIGHWAY 44	SPRING GROVE	Retire 95' 2" WS main under roadbed to be replaced with a longside PE service in order to replace X-trube service.	PHMSA (DIMP)	7/24/2019
X-trube	Q-4605-000882	2889803	BM-MAIN REPAIR SERVICE TEE FOR X-TRUBE SERVICE REPL	510 SCOTT AVE SE	BEMIDJI	REPLACE 5' OF 2" STEEL MAIN FOR X-TRUBE SERVICE TEE - GP	PHMSA (DIMP)	5/6/2019
X-trube	Q-4605-000948	2904175	WA-GUIC MAIN REPLACE MAIN N CONLEY THIEF	115 CONLEY AVE N	THIEF RIVER FALLS	Main replacement to replace 3 X-trube services	PHMSA (DIMP)	8/12/2019
X-trube	Q-4605-000949	2904246	WA-GUIC X TRUBE REPL TRF	240 PINE AVE N	THIEF RIVER FALLS	Main extension to replace X-trube service.	PHMSA (DIMP)	6/24/2019
X-trube	Q-4605-001061	2939592	RO-GUIC ROBERT SAUER- 3RD AVE (HARMONY)	340 SE 3RD AVE.	HARMONY	Install ~ 370' of 2" main to replace 2 X-trube services	PHMSA (DIMP)	10/28/2019
X-trube	Q-4605-001062	2940147	RO-GUIC ALLEN DAHL/ 2ND ST SE (HARMONY)	160 5TH AVE. SE	HARMONY	Install~130' of 2" PE main to replace X-trube service	PHMSA (DIMP)	10/28/2019
X-trube	Q-4605-001106	2956841	RO-GUIC LARRY TON- 5 MAIN AVE (HARMONY)	355 S MAIN AVE	HARMONY	Main extension to remove X-trube cross service	PHMSA (DIMP)	9/10/2019
	Total							

Project Type	WBS Element	WR #	Project Name	Total Main Footage	Main Installation Cost	Main Internal Labor Cost	Main Removal Cost	Total Main Cost	Number of Service Lines	Total Service Line Footage	Service Install Cost	Total Project Cost	Notes
AA	NA	2693360	GUIC - DIMP SVC REPL - OBSOLETE MATERIALS - AA	-	\$ -	\$ -	\$ -	\$ -	5	389	\$ 12,961.65	\$ 12,961.65	
AA	Q-4605-000647	2746693	FM-GUIC AA REPLACE-BROADWAY AVE (ALDEN)	740	\$ 21,094.34	\$ 14.77	\$ -	\$ 21,109.11	6	548	\$ 14,237.83	\$ 35,346.94	
AA	Q-4605-000794	2775040	FM-GUIC AA REPLACEMENT (ALDEN)	792	\$ 20,119.11	\$ 14.09	\$ -	\$ 20,133.20	5	334	\$ 8,015.79	\$ 28,148.99	
AA	Q-4605-000795	2775065	FM-GUIC AA REPLACEMENT (ELLENDALE)	1,999	\$ 48,105.86	\$ 33.63	\$ 720.27	\$ 48,859.76	10	735	\$ 21,450.39	\$ 70,310.15	
AA	Q-4605-000796	2776416	FM-GUIC AA REPLACEMENT (WELLS)	1,487	\$ 26,532.98	\$ 18.57	\$ 480.18	\$ 27,031.73	15	1,076	\$ 31,636.61	\$ 58,668.34	
AA	Q-4605-000797	2775075	FM-GUIC AA REPLACEMENT (EMMONS)	462	\$ 16,371.76	\$ 3,919.55	\$ -	\$ 20,291.31	4	252	\$ 4,836.90	\$ 25,128.21	
AA	Q-4605-000799	2847849	RO-GUIC AA REPLACEMENT-9TH ST NW	5,163	\$ 143,989.02	\$ 37,182.78	\$ -	\$ 181,171.80	0	-	\$ -	\$ 181,171.80	
AA	Q-4605-000800	2847679	RO-GUIC AA REPLACEMENT-MCNEILUS 1ST SUB	3,886	\$ 87,188.99	\$ 1,676.29	\$ -	\$ 88,865.28	19	1,494	\$ 40,526.81	\$ 129,392.09	
AA	Q-4605-000801	2847503	RO-GUIC AA REPLACEMENT-2ND AVE & 2ND ST	401	\$ 10,489.31	\$ 7.34	\$ -	\$ 10,496.65	1	132	\$ 2,900.24	\$ 13,396.89	
AA	Q-4605-000803	2846177	RO-GUIC AA REPLACEMENT-DRS 11 OUTLET	-	\$ 36,383.94	\$ 8,891.09	\$ -	\$ 45,275.03	2	103	\$ 4,624.28	\$ 49,899.31	
AA	Q-4605-000804	2846033	RO-GUIC AA REPLACEMENT-WOODLAKE DR SE	2,788	\$ 60,480.06	\$ 52.90	\$ -	\$ 60,532.96	4	324	\$ 7,549.11	\$ 68,082.07	
AA	Q-4605-000805	2845753	RO-GUIC AA REPLACEMENT-9 1/2 ST SE	2,602	\$ 100,298.95	\$ 13,177.47	\$ -	\$ 113,476.42	27	1,178	\$ 53,427.91	\$ 166,904.33	
AA	Q-4605-000806	2845617	RO-GUIC AA REPLACEMENT-5TH ST & 12TH AVE	4,181	\$ 103,452.43	\$ 17,742.86	\$ -	\$ 121,195.29	59	3,741	\$ 108,061.85	\$ 229,257.14	
AA	Q-4605-000807	2845248	RO-GUIC AA REPLACEMENT-1ST AVE NE BYRON	6,706	\$ 158,692.44	\$ 139.75	\$ -	\$ 158,832.19	54	2,214	\$ 97,113.51	\$ 255,945.70	
AA	Q-4605-000808	2845123	RO-GUIC AA REPLACEMENT-MEADOWLARK CT	2,939	\$ 65,501.06	\$ 1,457.26	\$ -	\$ 66,958.32	19	705	\$ 34,978.57	\$ 101,936.89	
AA	Q-4605-000809	2844877	RO-GUIC AA REPLACEMENT-CLIFF ST	504	\$ 19,316.75	\$ 17,315.17	\$ -	\$ 36,631.92	7	528	\$ 16,711.79	\$ 53,343.71	
AA	Q-4605-000810	2844834	RO-GUIC AA REPLACEMENT-CLIFF CIRCLE	504	\$ 23,511.14	\$ 16.46	\$ -	\$ 23,527.60	8	578	\$ 16,130.10	\$ 39,657.70	
AA	Q-4605-000811	2844752	RO-GUIC AA REPLACEMENT-BENNETT ST	-	\$ 15,577.96	\$ 360.77	\$ -	\$ 15,938.73	8	691	\$ 19,688.79	\$ 35,627.52	
AA	Q-4605-000812	2844610	RO-GUIC AA REPLACEMENT-WHALEN VALLEY RD	1,593	\$ 47,372.19	\$ 1,163.49	\$ -	\$ 48,535.68	13	995	\$ 25,948.01	\$ 74,483.69	
AA	Q-4605-000813	2844598	RO-GUIC AA REPLACEMENT-BURR OAK ST NORTH	6,224	\$ 245,536.83	\$ 6,352.76	\$ (125.00)	\$ 251,764.59	78	5,783	\$ 200,541.54	\$ 452,306.13	
AA	Q-4605-000814	2859356	RM-GUIC AA REPLACEMENT (LAKEVILLE)	4	\$ 5,394.66	\$ 3.78	\$ 225.00	\$ 5,623.44	0	-	\$ -	\$ 5,623.44	
AA	Q-4605-000815	2844627	RO-GUIC AA REPLACEMENT-SPRING VALLEY VAR	3,690	\$ 80,085.72	\$ 7,191.37	\$ -	\$ 87,277.09	27	2,218	\$ 53,929.87	\$ 141,206.96	
AA	Q-4605-000817	2859855	RO-GUIC AA REPLACEMENT-60TH AVE NW	6,170	\$ 341,120.62	\$ 39,105.69	\$ -	\$ 380,226.31	0	-	\$ -	\$ 380,226.31	
AA	Q-4605-000818	2845757	RO-GUIC AA REPLACEMENT-ST. MARY'S HILLS	11,257	\$ 295,162.47	\$ 22,800.77	\$ -	\$ 317,963.24	46	6,654	\$ 151,553.49	\$ 469,516.73	
AA	Q-4605-000841	2877997	PC-GUIC-RUSH CITY AA REPLACE 4 IN	8,597	\$ 441,372.76	\$ 1,748.19	\$ -	\$ 443,120.95	16	1,573	\$ 42,624.91	\$ 485,745.86	
AA	Q-4605-000865	2881359	FM-GUIC - AA REPLACEMENT (LAKEFIELD)	275	\$ 6,737.83	\$ 4.92	\$ 240.09	\$ 6,982.84	0	-	\$ -	\$ 6,982.84	
AA	Q-4605-000902	2893330	FM-GUIC-AA RETIREMENT BROADWAY (ALDEN)	-	\$ 168.12	\$ 0.12	\$ 240.09	\$ 408.33	0	-	\$ -	\$ 408.33	Retirement only
AA	Q-4605-000950	2906370	PC-GUIC 2019 AA REPLACEMENT PROJECT	1,000	\$ 22,453.97	\$ 2,775.59	\$ 270.19	\$ 25,499.75	6	517	\$ 13,840.45	\$ 39,340.20	
AA	Q-4605-001073	2851183	PC-GUIC AA REPL PROJECT 2019 MORA	2,678	\$ 70,253.20	\$ 1,092.60	\$ 316.22	\$ 71,662.02	25	2,230	\$ 60,718.58	\$ 132,380.60	
AA	Q-4605-001107	2801469	PC-GUIC RUSH CITY AA MAIN REPL 2 IN SECT	2,315	\$ 54,804.02	\$ 128.94	\$ -	\$ 54,932.96	12	607	\$ 21,598.70	\$ 76,531.66	
AA	Q-4605-001130	2968818	WA-GUIC AA HEWITT PHASE 1	2,468	\$ 58,719.22	\$ 9,888.68	\$ -	\$ 68,607.90	26	2,140	\$ 56,994.74	\$ 125,602.64	
AA	Q-4605-001131	2969082	BM-GUIC LAKEVIEW DR SW	2,091	\$ 41,082.96	\$ 6,830.32	\$ 316.22	\$ 48,229.50	0	-	\$ 0	\$ 48,229.50	
Bare Steel	Q-4605-000993	2922096	FM-MERC BARE STEEL OAK RIDGE (FAIRMONT)	516	\$ 10,317.57	\$ (227.38)	\$ 360.41	\$ 10,450.60	0	-	\$ 0	\$ 10,450.60	
Bare Steel	Q-4605-001015	2931274	RO-GUIC BARE STEEL10TH ST (ROCHESTER)	4	\$ 5,470.07	\$ 3.83	\$ -	\$ 5,473.90	0	-	\$ 0	\$ 5,473.90	
X-trube	NA	2693360	GUIC - DIMP SVC REPL - OBSOLETE MATERIALS - X-TRUBE	-	\$ -	\$ -	\$ -	\$ -	200	13,884	\$ 546,226.36	\$ 546,226.36	
X-trube	Q-4605-000842	2868816	RO-GUIC - XTRUBE (SPRING GROVE)	2,148	\$ 47,643.74	\$ 7,607.72	\$ -	\$ 55,251.46	24	1,321	\$ 52,876.10	\$ 108,127.56	
X-trube	Q-4605-000852	2872976	RO-GUIC - XTRUBE HWY 44 (SPRING GROVE)	-	\$ 490.34	\$ 0.34	\$ -	\$ 490.68	0	-	\$ -	\$ 490.68	Retirement only
X-trube	Q-4605-000882	2889803	BM-MAIN REPAIR SERVICE TEE FOR X-TRUBE SERVICE REPL	2	\$ 2,116.05	\$ (34.73)	\$ -	\$ 2,081.32	0	-	\$ -	\$ 2,081.32	
X-trube	Q-4605-000948	2904175	WA-GUIC MAIN REPLACE MAIN N CONLEY THIEF	272	\$ 10,043.94	\$ 372.72	\$ 408.17	\$ 10,824.83	3	217	\$ 6,381.81	\$ 17,206.64	
X-trube	Q-4605-000949	2904246	WA-GUIC X TRUBE REPL TRF	52	\$ 2,904.27	\$ 2.03	\$ -	\$ 2,906.30	0	-	\$ 0	\$ 2,906.30	
X-trube	Q-4605-001061	2939592	RO-GUIC ROBERT SAUER- 3RD AVE (HARMONY)	370	\$ 7,075.72	\$ 58.33	\$ -	\$ 7,134.05	0	-	\$ 0	\$ 7,134.05	
X-trube	Q-4605-001062	2940147	RO-GUIC ALLEN DAHL/ 2ND ST SE (HARMONY)	131	\$ 3,066.68	\$ 45.80	\$ -	\$ 3,112.48	0	-	\$ 0	\$ 3,112.48	
X-trube	Q-4605-001106	2956841	RO-GUIC LARRY TON- 5 MAIN AVE (HARMONY)	116	\$ 5,899.46	\$ 427.63	\$ -	\$ 6,327.09	1	110	\$ 1,534.14	\$ 7,861.23	
	Total			87,127	\$ 2,762,398.51	\$ 209,364.26	\$ 3,451.84	\$ 2,975,214.61	730	53,271	\$ 1,729,620.83	\$ 4,704,835.44	

EXHIBIT J – DETAILED DATA

				Additions										
Project Type	WBS Element	WR #	Project Name	1" Plastic	2" Plastic	4" Plastic	6" Plastic	8" Plastic	1" Steel	1-1/2" Steel	2" Steel	3" Steel	4" Steel	Total Footage Installed
AA	Q-4605-000647	2746693	FM-GUIC AA REPLACE-BROADWAY AVE (ALDEN)	0	740	0	0	0	0	0	0	0	0	740
AA	Q-4605-000794	2775040	FM-GUIC AA REPLACEMENT (ALDEN)	0	790	0	0	0	0	0	2	0	0	792
AA	Q-4605-000795	2775065	FM-GUIC AA REPLACEMENT (ELLENDALE)	0	1,999	0	0	0	0	0	0	0	0	1,999
AA	Q-4605-000796	2776416	FM-GUIC AA REPLACEMENT (WELLS)	0	937	550	0	0	0	0	0	0	0	1,487
AA	Q-4605-000797	2775075	FM-GUIC AA REPLACEMENT (EMMONS)	0	460	0	0	0	0	0	2	0	0	462
AA	Q-4605-000799	2847849	RO-GUIC AA REPLACEMENT-9TH ST NW	2	1,919	3,242	0	0	0	0	0	0	0	5,163
AA	Q-4605-000800	2847679	RO-GUIC AA REPLACEMENT-MCNEILUS 1ST SUB	0	2,345	1,541	0	0	0	0	0	0	0	3,886
AA	Q-4605-000801	2847503	RO-GUIC AA REPLACEMENT-2ND AVE & 2ND ST	3	398	0	0	0	0	0	0	0	0	401
AA	Q-4605-000803	2846177	RO-GUIC AA REPLACEMENT-DRS 11 OUTLET	0	0	0	0	0	0	0	0	0	0	0
AA	Q-4605-000804	2846033	RO-GUIC AA REPLACEMENT-WOODLAKE DR SE	0	2,788	0	0	0	0	0	0	0	0	2,788
AA	Q-4605-000805	2845753	RO-GUIC AA REPLACEMENT-9 1/2 ST SE	0	1,220	1,366	16	0	0	0	0	0	0	2,602
AA	Q-4605-000806	2845617	RO-GUIC AA REPLACEMENT-5TH ST & 12TH AVE	2	4,176	3	0	0	0	0	0	0	0	4,181
AA	Q-4605-000807	2845248	RO-GUIC AA REPLACEMENT-1ST AVE NE BYRON	1	6,705	0	0	0	0	0	0	0	0	6,706
AA	Q-4605-000808	2845123	RO-GUIC AA REPLACEMENT-MEADOWLARK CT	0	2,937	0	0	0	2	0	0	0	0	2,939
AA	Q-4605-000809	2844877	RO-GUIC AA REPLACEMENT-CLIFF ST	0	504	0	0	0	0	0	0	0	0	504
AA	Q-4605-000810	2844834	RO-GUIC AA REPLACEMENT-CLIFF CIRCLE	2	502	0	0	0	0	0	0	0	0	504
AA	Q-4605-000811	2844752	RO-GUIC AA REPLACEMENT-BENNETT ST	0	0	0	0	0	0	0	0	0	0	0
AA	Q-4605-000812	2844610	RO-GUIC AA REPLACEMENT-WHALEN VALLEY RD	2	1,591	0	0	0	0	0	0	0	0	1,593
AA	Q-4605-000813	2844598	RO-GUIC AA REPLACEMENT-BURR OAK ST NORTH	5	4,332	1,887	0	0	0	0	0	0	0	6,224
AA	Q-4605-000814	2859356	RM-GUIC AA REPLACEMENT (LAKEVILLE)	0	4	0	0	0	0	0	0	0	0	4
AA	Q-4605-000818	2845757	RO-GUIC AA REPLACEMENT-ST. MARY'S HILLS	0	5,780	5,477	0	0	0	0	0	0	0	11,257
AA	Q-4605-000841	2877997	PC-GUIC-RUSH CITY AA REPLACE 4 IN	2	222	8,373	0	0	0	0	0	0	0	8,597
AA	Q-4605-000865	2881359	FM-GUIC - AA REPLACEMENT (LAKEFIELD)	1	274	0	0	0	0	0	0	0	0	275
AA	Q-4605-000902	2893330	FM-GUIC-AA RETIREMENT BROADWAY (ALDEN)	0	0	0	0	0	0	0	0	0	0	0
AA	Q-4605-000950	2906370	PC-GUIC 2019 AA REPLACEMENT PROJECT	0	1,000	0	0	0	0	0	0	0	0	1,000
AA	Q-4605-001073	2851183	PC-GUIC AA REPL PROJECT 2019 MORA	0	0	0	0	0	0	0	0	0	0	2,678
AA	Q-4605-001107	2801469	PC-GUIC RUSH CITY AA MAIN REPL 2 IN SECT	0	2,315	0	0	0	0	0	0	0	0	2,315
AA	Q-4605-001130	2968818	WA-GUIC AA HEWITT PHASE 1	0	0	0	0	0	0	0	0	0	0	2,468
AA	Q-4605-001131	2969082	BM-GUIC LAKEVIEW DR SW	0	0	0	0	0	0	0	0	0	0	2,091
AA	Q-4605-000815	2844627	RO-GUIC AA REPLACEMENT-SPRING VALLEY VAR	0	0	0	0	0	0	0	0	0	0	3,690
AA	Q-4605-000817	2859855	RO-GUIC AA REPLACEMENT-60TH AVE NW	0	0	0	0	0	0	0	0	0	0	6,170
Bare Steel	Q-4605-000993	2922096	FM-MERC BARE STEEL OAK RIDGE (FAIRMONT)	0	516	0	0	0	0	0	0	0	0	516
Bare Steel	Q-4605-001015	2931274	RO-GUIC BARE STEEL10TH ST (ROCHESTER)	0	0	0	0	0	0	0	0	0	0	4
X-trube	Q-4605-000842	2868816	RO-GUIC - XTRUBE (SPRING GROVE)	0	2,148	0	0	0	0	0	0	0	0	2,148
X-trube	Q-4605-000852	2872976	RO-GUIC - XTRUBE HWY 44 (SPRING GROVE)	0	0	0	0	0	0	0	0	0	0	0
X-trube	Q-4605-000882	2889803	BM-MAIN REPAIR SERVICE TEE FOR X-TRUBE SERVICE REPL	0	0	0	0	0	0	2	0	0	0	2
X-trube	Q-4605-000948	2904175	WA-GUIC MAIN REPLACE MAIN N CONLEY THIEF	0	272	0	0	0	0	0	0	0	0	272
X-trube	Q-4605-000949	2904246	WA-GUIC X TRUBE REPL TRF	0	52	0	0	0	0	0	0	0	0	52
X-trube	Q-4605-001061	2939592	RO-GUIC ROBERT SAUER- 3RD AVE (HARMONY)	0	370	0	0	0	0	0	0	0	0	370
X-trube	Q-4605-001062	2940147	RO-GUIC ALLEN DAHL/ 2ND ST SE (HARMONY)	0	131	0	0	0	0	0	0	0	0	131
X-trube	Q-4605-001106	2956841	RO-GUIC LARRY TON- 5 MAIN AVE (HARMONY)	0	116	0	0	0	0	0	0	0	0	116
Total				20	47,543	22,439	16	0	2	2	4	0	4	87,127

Project Type	WBS Element	WR #	Project Name	Retirements																Total Footage Retired	Note
				3/4" Plastic	1" Plastic	1-1/4" Plastic	2" Plastic	3" Plastic	3" Plastic & Greater	4" Plastic	6" Plastic	1" Steel	1-1/4" Steel	1-1/2" Steel2	2" Steel	3" Steel	4" Steel	6" Steel	8" Steel		
AA	Q-4605-000647	2746683	FM-GUIC AA REPLACE-BROADWAY AVE (ALDEN)	0	0	0	-205	0	0	0	0	0	0	0	-331	0	0	0	0	-536	
AA	Q-4605-000794	2775040	FM-GUIC AA REPLACEMENT (ALDEN)	0	0	0	-764	0	0	0	0	0	0	0	0	0	0	0	0	-764	
AA	Q-4605-000795	2775065	FM-GUIC AA REPLACEMENT (ELLEDALE)	0	0	0	-1,875	0	0	0	0	0	0	0	-23	0	0	0	0	-1,898	
AA	Q-4605-000796	2776416	FM-GUIC AA REPLACEMENT (WELLS)	0	0	0	-1,019	-246	0	0	0	0	0	0	0	0	0	0	0	-1,265	
AA	Q-4605-000797	2775075	FM-GUIC AA REPLACEMENT (EMMONS)	0	0	0	-474	0	0	0	0	0	0	0	-2	0	0	0	0	-476	
AA	Q-4605-000799	2847849	RO-GUIC AA REPLACEMENT-9TH ST NW	0	0	0	-2,188	0	0	-2,227	0	0	0	0	0	0	0	0	0	-4,415	
AA	Q-4605-000800	2847679	RO-GUIC AA REPLACEMENT-MCNEILLUS 1ST SUB	0	0	0	-3,420	-910	0	0	0	0	0	0	0	0	0	0	0	-4,330	
AA	Q-4605-000801	2847503	RO-GUIC AA REPLACEMENT-2ND AVE & 2ND ST	0	0	0	-217	0	0	0	0	0	0	0	-32	0	0	0	0	-249	
AA	Q-4605-000803	2846177	RO-GUIC AA REPLACEMENT-DRS 11 OUTLET	0	0	0	0	0	-412	-340	0	0	0	0	0	0	0	0	0	-752	
AA	Q-4605-000804	2846033	RO-GUIC AA REPLACEMENT-WOODLAKE DR SE	0	0	0	-2,760	0	0	0	0	0	0	0	0	0	0	0	0	-2,760	
AA	Q-4605-000805	2845753	RO-GUIC AA REPLACEMENT-9 1/2 ST SE	0	0	0	-944	-506	0	-765	-12	0	0	0	0	0	-91	0	0	-2,318	
AA	Q-4605-000806	2845617	RO-GUIC AA REPLACEMENT-5TH ST & 12TH AVE	0	0	0	-3,244	0	0	0	0	0	0	0	-560	0	0	0	0	-3,804	
AA	Q-4605-000807	2845248	RO-GUIC AA REPLACEMENT-1ST AVE NE BYRON	0	0	0	-3,354	-177	0	0	0	0	0	0	-62	-8	0	0	0	-3,601	
AA	Q-4605-000808	2845123	RO-GUIC AA REPLACEMENT-MEADOWLARK CT	0	0	0	-1,333	0	0	0	0	0	0	0	0	0	0	0	0	-1,333	
AA	Q-4605-000809	2844877	RO-GUIC AA REPLACEMENT-CLIFF ST	0	0	0	-290	0	0	0	0	0	0	0	-3	0	0	0	0	-293	
AA	Q-4605-000810	2844834	RO-GUIC AA REPLACEMENT-CLIFF CIRCLE	0	0	0	-427	0	0	0	0	0	0	0	-32	0	0	0	0	-459	
AA	Q-4605-000811	2844752	RO-GUIC AA REPLACEMENT-BENNETT ST	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
AA	Q-4605-000812	2844610	RO-GUIC AA REPLACEMENT-WHALEN VALLEY RD	0	0	0	-1,321	0	0	0	0	0	0	0	0	0	0	0	0	-1,321	
AA	Q-4605-000813	2844598	RO-GUIC AA REPLACEMENT-BURR OAK ST NORTH	-1	-2	0	-6,173	0	0	-1,467	0	0	-517	0	-286	0	-355	0	0	-8,801	
AA	Q-4605-000814	2859356	RM-GUIC AA REPLACEMENT (LAKEVILLE)	0	0	0	-4	0	0	0	0	0	0	0	0	0	0	0	0	-4	
AA	Q-4605-000818	2845757	RO-GUIC AA REPLACEMENT-ST. MARY'S HILLS	0	0	0	-6,186	0	0	0	0	0	0	0	0	0	0	0	0	-6,186	
AA	Q-4605-000841	2877997	PC-GUIC-RUSH CITY AA REPLACE 4 IN	0	0	0	-12	0	0	0	0	0	0	0	0	0	0	0	0	-12	
AA	Q-4605-000865	2881359	FM-GUIC - AA REPLACEMENT (LAKEFIELD)	0	0	0	-281	0	0	0	0	0	0	0	0	0	0	0	0	-281	
AA	Q-4605-000902	2893330	FM-GUIC-AA RETIREMENT BROADWAY (ALDEN)	0	0	0	-443	0	0	0	0	0	0	0	0	0	0	0	0	-443	
AA	Q-4605-000950	2906370	PC-GUIC 2019 AA REPLACEMENT PROJECT	0	0	0	-1,699	0	0	0	0	0	0	0	-807	0	0	0	0	-2,506	
AA	Q-4605-001073	2851183	PC-GUIC AA REPL PROJECT 2019 MORA	0	0	0	-2,612	0	0	0	0	0	0	0	0	0	0	0	0	-2,612	Specific material and size information for additions is still pending.
AA	Q-4605-001107	2801469	PC-GUIC RUSH CITY AA MAIN REPL 2 IN SECT	0	-2	0	-1,378	0	0	0	0	0	0	0	0	0	0	0	0	-1,380	
AA	Q-4605-001130	2968818	WA-GUIC AA HEWITT PHASE 1	0	0	-2,613	-9	0	0	0	0	0	0	0	0	0	0	0	0	-2,622	Specific material and size information for additions is still pending.
AA	Q-4605-001131	2969082	BM-GUIC LAKEVIEW DR SW	0	0	0	-2,084	0	0	0	0	0	0	0	0	0	0	0	0	-2,084	Specific material and size information for additions is still pending.
AA	Q-4605-000815	2844627	RO-GUIC AA REPLACEMENT-SPRING VALLEY VAR	0	-2	0	-2,791	0	0	0	0	0	0	0	-1,241	0	0	0	0	-4,034	Specific material and size information for additions is still pending.
AA	Q-4605-000817	2859855	RO-GUIC AA REPLACEMENT-60TH AVE NW	0	-2	0	-6,725	0	0	-49	-27	0	0	0	0	0	0	0	0	-6,803	Specific material and size information for additions is still pending.
Bare Steel	Q-4605-000993	2922096	FM-MERC BARE STEEL OAK RIDGE (FAIRMONT)	0	0	0	-5	0	0	0	0	0	0	0	0	0	0	0	0	-5	
Bare Steel	Q-4605-001015	2931274	RO-GUIC BARE STEEL10TH ST (ROCHESTER)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-4	0	-4	
X-trube	Q-4605-000842	2868816	RO-GUIC - XTRUBE (SPRING GROVE)	0	0	0	0	0	0	0	0	0	0	-919	0	0	0	0	0	-919	
X-trube	Q-4605-000852	2872976	RO-GUIC - XTRUBE HWY 44 (SPRING GROVE)	0	0	0	-53	0	0	0	0	0	0	0	-96	0	0	0	0	-149	
X-trube	Q-4605-000882	2889803	BM-MAIN REPAIR SERVICE TEE FOR X-TRUBE SERVICE REPL	0	0	0	0	0	0	0	0	0	-2	0	0	0	0	0	0	-2	
X-trube	Q-4605-000948	2904175	WA-GUIC MAIN REPLACE MAIN N CONLEY THIEF	0	0	0	-26	0	0	0	0	0	-259	0	0	0	0	0	0	-285	
X-trube	Q-4605-000949	2904246	WA-GUIC X TRUBE REPL TRF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
X-trube	Q-4605-001061	2939592	RO-GUIC ROBERT SAUER- 3RD AVE (HARMONY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
X-trube	Q-4605-001062	2940147	RO-GUIC ALLEN DAHL/ 2ND ST SE (HARMONY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
X-trube	Q-4605-001106	2956841	RO-GUIC LARRY TON- S MAIN AVE (HARMONY)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total				-1	-8	-2,613	-54,316	-1,839	-412	-4,848	-39	0	-1,697	0	-3,475	-9	-450	0	0	-69,706	

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2019 Obsolete Materials Replacement Projects

Page 6 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Aldy-A	2854545	2775075	94			EMMONS	GUIC AA REPL
Aldy-A	2854547	2775075	94			EMMONS	GUIC AA REPL
Aldy-A	2854548	2775075	94			EMMONS	GUIC AA REPL
Aldy-A	2854546	2775075	94			EMMONS	GUIC AA REPL
Aldy-A	2884021	2844834	95			CHATFIELD	GUIC AA SERVICE / REPLACE SVC. W/ 1"SHORT SIDE - 250 MTR
Aldy-A	2854907	2775040	94			ALDEN	GUIC AA REPL
Aldy-A	2854911	2775040	94			ALDEN	GUIC AA REPL
Aldy-A	2854912	2775040	94			ALDEN	GUIC AA REPL
Aldy-A	2854910	2775040	94			ALDEN	GUIC AA REPL
Aldy-A	2854908	2775040	94			ALDEN	GUIC AA REPL
Aldy-A	2883778	2844834	95			CHATFIELD	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2883822	2844834	95			CHATFIELD	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2883864	2844834	95			CHATFIELD	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2883918	2844834	95			CHATFIELD	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2883881	2844834	95			CHATFIELD	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2883908	2844834	95			CHATFIELD	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2883946	2844834	95			CHATFIELD	GUIC AA SERVICE / REPLACE SVC. W/ 1"SHORT SIDE - 250 MTR
Aldy-A	2880896	2846033	95			RC-ROCHESTER-RCHSTR SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1"SHORT SIDE - 1000 MTR
Aldy-A	2854170	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854169	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2880563	2846033	95			RC-ROCHESTER-RCHSTR SD-C	GUIC AA SERVICE / REPLACE SVC. SHORT SIDE - 425/630 MTR
Aldy-A	2880536	2846033	95			RC-ROCHESTER-RCHSTR SD-C	GUIC AA SERVICE / REPLACE SVC. LONG SIDE - 425/630 MTR
Aldy-A	2880861	2846033	95			RC-ROCHESTER-RCHSTR SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 1000 MTR
Aldy-A	2884106	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2884100	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2884101	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2884102	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2884099	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2887460	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887513	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2887371	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2893013	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE / SERVICE REPLACEMENT
Aldy-A	2891287	2746693	94			FM-ALDEN-ALDNCONGR SD-C	GUIC AA REPL
Aldy-A	2893177	2746693	94			FM-ALDEN-ALDNCONGR SD-C	GUIC AA REPL
Aldy-A	2893172	2746693	94			FM-ALDEN-ALDNCONGR SD-C	GUIC AA REPL
Aldy-A	2893173	2746693	94			FM-ALDEN-ALDNCONGR SD-C	GUIC AA REPL
Aldy-A	2893176	2746693	94			FM-ALDEN-ALDNCONGR SD-C	GUIC AA REPL
Aldy-A	2893168	2746693	94			FM-ALDEN-ALDNCONGR SD-C	GUIC AA REPL
Aldy-A	2887363	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1"SHORT SIDE - 250 MTR
Aldy-A	2887501	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887449	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887500	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887448	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887447	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887446	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2884103	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2884108	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2884107	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2884105	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2884104	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2887514	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2887425	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887512	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2887304	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887515	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2887516	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2887496	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2854175	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854180	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854178	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854172	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2884083	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2884098	2844610	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA/ SERVICE REPLACEMENT
Aldy-A	2887440	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887727	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887729	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887691	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1"SHORT SIDE - 250 MTR
Aldy-A	2887694	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1"SHORT SIDE - 250 MTR
Aldy-A	2887305	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887306	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887307	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887375	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887308	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2896148	2847501	95			RC-ODOGCTR-TITTON SD-C	GUIC/ SERVICE REPLACEMENT
Aldy-A	2887835	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887839	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887837	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887966	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887962	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887821	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2887877	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887883	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887836	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887838	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2854168	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854163	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854164	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854162	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854167	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854165	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2884119	2844877	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2884483	2844877	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2884425	2844877	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2887959	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887964	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887724	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887682	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887728	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887805	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887725	2845248	95			RC-BYRON-BRYRON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR

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[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Aldy-A	2884379	2844877	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2884469	2844877	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2884399	2844877	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2884419	2844877	95			RC-CHATFIELD-CHTFLD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2887892	2845248	95			RC-BYRON-BYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887451	2845248	95			RC-BYRON-BYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887895	2845248	95			RC-BYRON-BYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887716	2845248	95			RC-BYRON-BYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887963	2845248	95			RC-BYRON-BYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887726	2845248	95			RC-BYRON-BYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887796	2845248	95			RC-BYRON-BYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887804	2845248	95			RC-BYRON-BYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2887806	2845248	95			RC-BYRON-BYRON SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2854166	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854157	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854183	2776416	94			FM-WELLS-UNTDSCENTRL SD-C	GUIC AA REPL
Aldy-A	2854585	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2854588	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2886409	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886503	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886504	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886489	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2901428	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886495	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886491	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886501	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886498	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2912437	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2896650	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895605	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2896937	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895604	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2886496	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886500	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886492	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886479	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2887057	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE
Aldy-A	2887048	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2895313	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2886490	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2887050	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2887014	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2886488	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886494	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2886502	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2854589	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2895607	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2886487	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2887052	2868816	95			RC-SPRINGGROVE-SPRGG SD-C	GUIC MAIN RELOCATE / SERVICE REPLACEMENT
Aldy-A	2854583	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2854594	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2854582	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2854581	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2895610	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895608	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895606	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2894672	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2894676	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2895303	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2897245	2693360	89			THIEF RIVER FALLS	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2854592	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2854595	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2854584	2775065	94			FM-ELLENDALE -NRHEG SD-C	GUIC AA REPL
Aldy-A	2895645	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2895609	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895514	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2895341	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2895506	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2894659	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2895275	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2896141	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2894677	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2896347	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2896220	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC / SERVICE REPLACEMENT
Aldy-A	2895640	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2894675	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2896144	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2895511	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2895513	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2895346	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2895641	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2895643	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2896295	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2896344	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2896343	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2896351	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895515	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2895372	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2895516	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2895348	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895358	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895360	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895361	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895362	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895363	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2895644	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2895614	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2896349	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE REPLACEMENT
Aldy-A	2896053	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2896182	2845617	95			RC-KASSON-KSNMNTNRLV SD-C	GUIC SERVICE/REPLACE SVC. W/ 1" LONG SIDE - 250 MTR

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Page 8 of 21

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PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

2019 Obsolete Materials Replacement Projects

Page 9 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Aldly-A	2892249	2845757	95			RC-CASCADE-RCHSTR SD-C	GUIC AA SERVICE/ SERVICE REPLACEMENT
Aldly-A	2913469	2845751	95			RC-ROCHESTER-RCHSTR SD-C	Replace ~300' 2" AA service with PE
Aldly-A	2926200	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2926201	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2926199	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2926198	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2926197	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2926196	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2926195	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2899271	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2899014	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940950	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC/ REPLACE SVC. W/ 1"SHORT SIDE - 250 MTR
Aldly-A	2926204	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2899269	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2899209	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2900273	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE / SERVICE REPLACEMENT
Aldly-A	2926191	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2926190	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2899268	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2900211	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE / SERVICE REPLACEMENT
Aldly-A	2900271	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE / SERVICE REPLACEMENT
Aldly-A	2899274	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2899272	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2899267	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2899270	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2900272	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE / SERVICE REPLACEMENT
Aldly-A	2899011	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2899015	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2899273	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2900276	2847679	95			RC-DODGECNTR-TRITON SD-C	GUIC SERVICE / SERVICE REPLACEMENT
Aldly-A	2926205	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2926188	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2926202	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2884664	2844752	95			RC-CHATFIELD-CHTFLD SD-C	20109 GUIC BENNETT ST/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2884700	2844752	95			RC-CHATFIELD-CHTFLD SD-C	20109 GUIC BENNETT ST/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2884691	2844752	95			RC-CHATFIELD-CHTFLD SD-C	20109 GUIC BENNETT ST/ REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2884566	2844752	95			RC-CHATFIELD-CHTFLD SD-C	20109 GUIC BENNETT ST / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2884698	2844752	95			RC-CHATFIELD-CHTFLD SD-C	20109 GUIC BENNETT ST/ REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2884625	2844752	95			RC-CHATFIELD-CHTFLD SD-C	20109 GUIC BENNETT ST / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2884544	2844752	95			RC-CHATFIELD-CHTFLD SD-C	2049 GUIC BENNETT ST / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2884535	2844752	95			RC-CHATFIELD-CHTFLD SD-C	20109 GUIC BENNETT ST/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2926185	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2922645	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2922646	2877997	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2957620	2847679	95			RC-DODGECNTR-TRITON SD-C	Retire ~290' of 2" service, install ~340' of 1" PE Service
Aldly-A	2883548	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883546	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883539	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883545	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883547	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883569	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883550	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883551	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883541	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883315	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883317	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883313	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883311	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883308	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2951738	2948401	95			RC-EYOTA-DOVEREYOTA SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2951453	2948401	95			RC-EYOTA-DOVEREYOTA SD-C	GUIC SERVICE REPLACEMENT
Aldly-A	2882759	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882577	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882753	2693360	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882751	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882757	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883120	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2942885	2940404	95			RC-ROCHESTER-RCHSTR SD-C	REPLACEMENT - AA
Aldly-A	2942887	2940404	95			RC-ROCHESTER-RCHSTR SD-C	REPLACEMENT - AA
Aldly-A	2882573	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882571	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882560	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882569	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2881598	2844598	95			RC-CHATFIELD-CHTFLD SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2881609	2844598	95			RC-CHATFIELD-CHTFLD SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940325	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940327	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940326	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940340	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940332	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940334	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940338	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940333	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2940328	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2882760	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883312	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883314	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883316	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2883538	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882758	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882756	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882752	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882754	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882574	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882570	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882578	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2960176	2844598	95			RC-CHATFIELD-CHTFLD SD-C	MN-TEMP REPLACE SVC W/ 1" LONG SIDE - 250 MTR
Aldly-A	2883309	2844598	95			RC-CHATFIELD-CHTFLD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2940335	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2940336	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR

... PRIVATE DATA ENDS]

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Aldly-A	2882572	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882576	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2882568	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC PROJECT / SERVICE REPLACEMENT
Aldly-A	2940329	2801469	98			RUSH QTY	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR GUIC AA REPL/SERVICE REPLACEMENT
Aldly-A	2881389	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2880995	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2881381	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881360	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2881386	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2880939	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2880934	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881002	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2880927	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2880935	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2880942	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2880937	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2880940	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881379	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881344	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2881388	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2977480	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC SERVICE REPLACEMENT
Aldly-A	2881293	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE /REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2881382	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881400	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2881384	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881297	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE /REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2881390	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881387	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881383	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881385	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881380	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881001	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2881361	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2880936	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2880938	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2880941	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC/ SERVICE REPLACEMENT
Aldly-A	2881298	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE /REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2881000	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2881435	2844598	95			RC-CHATTIELD-CHTFD SD-C	GUIC AA SERVICE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2963136	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT/REPLACE SVC. SHORT SIDE - 425/630 MTR
Aldly-A	2963228	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / SERVICE REPLACEMENT
Aldly-A	2963206	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2962739	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / SERVICE REPLACEMENT
Aldly-A	2963363	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / SERVICE REPLACEMENT
Aldly-A	2963229	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / SERVICE REPLACEMENT
Aldly-A	2962746	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / SERVICE REPLACEMENT
Aldly-A	2963170	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2962744	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / SERVICE REPLACEMENT
Aldly-A	2962743	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / SERVICE REPLACEMENT
Aldly-A	2963211	2693360	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2858852	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858851	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858881	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858871	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2984344	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC SERVICE REPLACEMENT
Aldly-A	2858868	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858873	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858889	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858891	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858883	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858888	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858877	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2985548	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC SERVICE REPLACEMENT
Aldly-A	2962745	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / SERVICE REPLACEMENT
Aldly-A	2858847	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858848	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858865	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858874	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2983877	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC SERVICE REPLACEMENT
Aldly-A	2858836	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858844	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858843	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858845	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858835	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858837	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858839	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858841	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2858838	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2893274	2845757	95			RC-CASCADE-RECHSTR SD-C	GUIC AA SERVICE / SERVICE REPLACEMENT
Aldly-A	2893303	2845757	95			RC-CASCADE-CHSTR SD-C	GUIC AA SERVICE / SERVICE REPLACEMENT
Aldly-A	2962043	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2858849	2851183	98			MORA	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR ADLYL-A/SERVICE REPLACEMENT
Aldly-A	2961871	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT/REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2962493	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2962492	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2961862	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2962490	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2961870	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2961999	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2962369	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2961868	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2961872	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC AA PROJECT / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2992591	2844627	95			RC-SPRINGVALLY-KNGLD SD-C	GUIC SPRING VALLEY / SERVICE REPLACEMENT
Aldly-A	2971707	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldly-A	2971704	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2971705	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2971706	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2971708	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2971712	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldly-A	2971709	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR

. . . PRIVATE DATA ENDS]

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2019 Obsolete Materials Replacement Projects

Page 11 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
Aldy-A	2971746	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2971711	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2971710	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2971713	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2995188	2968818	89			HEWITT	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2973609	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. LONG SIDE - 425/630 MTR
Aldy-A	2971714	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2973608	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2973610	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2994564	2968818	89			HEWITT	MN-TEMP GRU TIE-OVER 1" P NEW SERVICE
Aldy-A	2973612	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2973613	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2973611	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2995187	2968818	89			HEWITT	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2973617	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2973616	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2996386	2968818	89			HEWITT	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2973614	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2973615	2968818	89			WDN-HEWITT-BERTH HWT SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
Aldy-A	2997120	2846177	99			RC-ROCHESTER-RCHSTR SD-C	GUIC / PARTIAL REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Aldy-A	2997193	2846177	99			RC-ROCHESTER-RCHSTR SD-C	GUIC / PARTIAL REPLACE SVC W/ 5" SHORT SIDE - 250 MTR
Aldy-A	2880943	2844598	99			RC-CHATFIELD-CHTFLD SD-C	GUIC/ SERVICE REPLACEMENT
Aldy-A	2961946	2844627	99			RC-SPRINGVALLEY-KINGLND SD-C	GUIC AA PROJECT REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2874080	2693360	99			CHATFIELD	GUIC LEAK ON X-TRUE TEE
X-trube	2671558	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2671554	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672211	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2671547	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2671533	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2671967	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2671550	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2671542	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2671536	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672192	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2675812	2693360	99			PRISTON	GUIC XTRUBE / SERVICE REPLACEMENT
X-trube	2676676	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2672229	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672225	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672203	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672217	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2672174	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672170	2693360	99			BEMIDJ	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2659180	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2659182	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672233	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2659183	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2659184	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2749578	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE extrube service with PE.
X-trube	2522780	2693360	99			BEMIDJ	XTRUBE / SERVICE REPLACEMENT
X-trube	2672180	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2522788	2693360	99			BEMIDJ	XTRUBE / SERVICE REPLACEMENT
X-trube	2883099	2693360	99			RC-ROCHESTER-RCHSTR SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2655493	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2671456	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672196	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2551744	2693360	99			BEMIDJ	SERVICE REPLACEMENT
X-trube	2672214	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672242	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2672241	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2883757	2693360	99			RC-ROCHESTER-RCHSTR SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2878554	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2672221	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2672257	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2672246	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2889748	2693360	99			RC-CALDONIA-CALDNIA SD-C	GUIC XTRUBE / SERVICE REPLACEMENT
X-trube	2887067	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2887068	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2654953	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2583329	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2591190	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2654930	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2654926	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2654957	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2654913	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2654924	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2654948	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2654931	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2654916	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2654920	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2654928	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2730043	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE ? SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2654951	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2655503	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2669208	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2669207	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2678830	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2669205	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2887070	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2678828	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2669274	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2887065	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2655495	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2655496	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE / SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2672223	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2674055	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2881318	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2880873	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2887071	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2891493	2693360	99			BM-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR

. . . PRIVATE DATA ENDS]

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

2019 Obsolete Materials Replacement Projects

Page 12 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
X-trube	2887069	2693360	97			BMJ-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2671452	2693360	97			BMJ-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2678847	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2678846	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2678845	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2675977	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2675972	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2678831	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2678848	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2675978	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2669272	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2669271	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2675975	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2889713	2693360	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2675980	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2669181	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2897244	2693360	89			THIEF RIVER FALLS	XTRUBE REPLACEMENT MN-TEMP REPLACE SVC. LONG SIDE - 425/630 MTR
X-trube	2684724	2693360	89			WDN-THF RV FL-THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2903641	2693360	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2870061	2693360	95			RC-EYOTA-DOVEEYOTA SD-C	GUIC XTRUBE / SERVICE REPLACEMENT
X-trube	2889885	2693360	95			RC-CALEDONIA-CALDNIA SD-C	GUIC XTRUBE / SERVICE REPLACEMENT
X-trube	2889867	2693360	95			RC-CALEDONIA-CALDNIA SD-C	GUIC XTRUBE / SERVICE REPLACEMENT
X-trube	2883160	2693360	95			RC-ROCHESTER-RCHSTR SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2883386	2693360	95			RC-ROCHESTER-RCHSTR SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2910776	2693360	97			BMJ-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2910794	2693360	97			BMJ-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2913908	2693360	95			RC-ROCHESTER-RCHSTR SD-C	REPLACEMENT - GUIC XTRUBE
X-trube	2883140	2693360	95			RC-ROCHESTER-RCHSTR SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2924896	2693360	95			RC-MABEL-MBLCANTN SD-C	GUIC UNDERGROUND LEAK XTRUBE
X-trube	2912485	2904175	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2912486	2904175	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2912487	2904175	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2918948	2693360	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2948684	2693360	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2944826	2693360	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2945743	2693360	89			BMJ-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2872005	2693360	97			BMJ-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2937115	2693360	97			BMJ-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947701	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2948034	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2944337	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945353	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2944343	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2943623	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947702	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2945823	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2946828	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945689	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2947722	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2945750	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2945751	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2948065	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / SERVICE REPLACEMENT
X-trube	2948064	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / SERVICE REPLACEMENT
X-trube	2946687	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947425	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947724	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2945825	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2951385	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2943628	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE/REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947728	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2946875	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2945688	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2945634	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2946683	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945822	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2946686	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2944827	2693360	89			WDN-THF RV FL-THFRVR SD-C	GUIC XTRUBE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2947727	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2947703	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2948368	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2965901	2693360	89			WDN-THF RV FL-THFRVR SD-C	MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2948290	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2945680	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2946574	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947432	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945748	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2945347	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2961287	2693360	97			BMJ-BEMIDJ-BEMIDJ SD-C	MN-TEMP REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2961205	2693360	95			RC-MABEL-MBLCANTN SD-C	GUIC X-TRube Repl
X-trube	2962888	2693360	95			RC-MABEL-MBLCANTN SD-C	GUIC X-TRube Repl
X-trube	2961179	2693360	95			RC-MABEL-MBLCANTN SD-C	GUIC X-TRube Repl
X-trube	2945756	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2945825	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945826	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945754	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2945752	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2947398	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2946567	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947392	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947700	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2947723	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2947732	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2947730	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2956827	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2943611	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2946607	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947731	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2948326	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2947641	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2945628	2693360	95			RC-HARMONY-FILLMCRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR

. . . PRIVATE DATA ENDS]

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

2019 Obsolete Materials Replacement Projects

Page 13 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Address	City	Description
X-trube	2947729	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2947370	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC X TRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945747	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2948369	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2946873	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2946832	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC X TRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945814	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945694	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE SERVICE REPLACEMENT
X-trube	2946831	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC X TRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2948370	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2947726	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2945749	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2945755	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2947399	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC X TRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2944890	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC REPLACEMENT/ REPLACE SVC W/ 5" SHORT SIDE - 250 MTR
X-trube	2945753	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2945824	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE SVC / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2945757	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2947655	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2947666	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2986350	2693360	95			RC-PINEISLAND-PINEIS SD-C	REPLACEMENT - LEAK REPAIR
X-trube	2927069	2693360	95			RC-LANESBORO-LNSBRO SD-C	GUIC XTRUBE REPLACEMENT
X-trube	2947697	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
X-trube	2948371	2693360	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE REPLACEMENT / SERVICE REPLACEMENT
X-trube	2960609	2956841	95			RC-HARMONY-FILLMRCTL SD-C	GUIC XTRUBE / SERVICE REPLACEMENT
X-trube	2654958	2693360	89			WDN-THF RV FL THFRVR SD-C	XTRUBE/SERVICE REPLACEMENT MN-TEMP REPLACE SVC. W/ 1" LONG SIDE - 250 MTR
X-trube	2987663	2693360	95			RC-CHATFIELD-CHTFLD SD-C	XTRUBE LEAK / REPLACE SVC. W/ 1" SHORT SIDE - 250 MTR
Total							

. . . PRIVATE DATA ENDS]

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

2019 Obsolete Materials Replacement Projects

Page 14 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Aldy-A	2854545	2775075	94			4/18/2019	4 1" and smaller		42 1/2" Plastic	44	979.59
Aldy-A	2854547	2775075	94		4/18/2019	4 1" and smaller		84 1/2" Plastic	84	1,622.74	
Aldy-A	2854548	2775075	94		4/18/2019	4 1" and smaller		89 1/2" Plastic	92	1,380.10	
Aldy-A	2854546	2775075	94		4/19/2019	4 1" and smaller		37 1/2" Plastic	37	854.47	
Aldy-A	2884021	2844834	95		4/22/2019	4 1" and smaller		47 1/2" Plastic	55	1,472.76	
Aldy-A	2854907	2775040	94		4/24/2019	4 1" and smaller		75 1/2" Plastic	72	1,651.53	
Aldy-A	2854911	2775040	94		4/24/2019	4 1" and smaller		78 1/2" Plastic	75	1,479.06	
Aldy-A	2854912	2775040	94		4/24/2019	4 1" and smaller		76 1/2" Plastic	73	1,996.09	
Aldy-A	2854910	2775040	94		4/24/2019	4 1" and smaller		33 1/2" Plastic	36	1,068.12	
Aldy-A	2854908	2775040	94		4/24/2019	4 1" and smaller		72 1/2" Plastic	70	1,820.99	
Aldy-A	2883778	2844834	95		4/24/2019	4 1" and smaller		101 1/2" Plastic	100	2,521.13	
Aldy-A	2883822	2844834	95		4/24/2019	4 1" and smaller		94 1/2" Plastic	10	2,349.08	
Aldy-A	2883864	2844834	95		4/24/2019	4 1" and smaller		56 1/2" Plastic	60	1,674.78	
Aldy-A	2883918	2844834	95		4/24/2019	4 1" and smaller		92 1/2" Plastic	92	2,405.53	
Aldy-A	2883881	2844834	95		4/24/2019	4 1" and smaller		94 1/2" Plastic	99	2,354.46	
Aldy-A	2883908	2844834	95		4/24/2019	4 1" and smaller		53 1/2" Plastic	55	1,815.16	
Aldy-A	2883946	2844834	95		4/24/2019	4 1" and smaller		41 1/2" Plastic	62	1,537.20	
Aldy-A	2880896	2846033	95		5/1/2019	5 1" and smaller		97 1/2" Plastic	101	2,145.40	
Aldy-A	2854170	2776416	94		5/2/2019	5 1" and smaller		50 1" Plastic	43	1,163.33	
Aldy-A	2854169	2776416	94		5/2/2019	5 1" and smaller		39 1/2" Plastic	41	965.24	
Aldy-A	2880563	2846033	95		5/2/2019	5 1" and smaller		74 1/2" Plastic	68	2,010.29	
Aldy-A	2880536	2846033	95		5/2/2019	5 1" and smaller		3 1/2" Plastic	56	740.04	
Aldy-A	2880861	2846033	95		5/3/2019	5 1" and smaller		150 1/2" Plastic	87	2,653.38	
Aldy-A	2884106	2844610	95		5/7/2019	5 1" and smaller		47 1/2" Plastic	45	1,247.53	
Aldy-A	2884100	2844610	95		5/9/2019	5 1" and smaller		58 1/2" Plastic	56	1,756.22	
Aldy-A	2884101	2844610	95		5/9/2019	5 1" and smaller		56 1/2" Plastic	56	1,752.35	
Aldy-A	2884102	2844610	95		5/9/2019	5 1" and smaller		57 1/2" Plastic	56	1,957.31	
Aldy-A	2884099	2844610	95		5/9/2019	5 1" and smaller		62 1/2" Plastic	150	5	
Aldy-A	2887450	2845248	95		5/9/2019	5 1" and smaller		43 1/2" Plastic	85	2,781.98	
Aldy-A	2887513	2845248	95		5/9/2019	5 1" and smaller		74 1/2" Plastic	63	2,582.41	
Aldy-A	2887371	2845248	95		5/9/2019	5 1" and smaller		56 1/2" Plastic	107	2,476.80	
Aldy-A	2893013	2845248	95		5/9/2019	5 1" and smaller		34 3/4" Steel	40	1,479.19	
Aldy-A	2891287	2746693	94		5/9/2019	5 1" and smaller		98 1/2" Plastic	25	3,093.47	
Aldy-A	2893177	2746693	94		5/9/2019	5 1" and smaller		98 1/2" Plastic	41	2,182.77	
Aldy-A	2893172	2746693	94		5/9/2019	5 1" and smaller		100 1/2" Plastic	43	2,113.47	
Aldy-A	2893173	2746693	94		5/9/2019	5 1" and smaller		114 1/2" Plastic	57	2,608.26	
Aldy-A	2893176	2746693	94		5/9/2019	5 1" and smaller		98 1/2" Plastic	41	2,192.07	
Aldy-A	2893168	2746693	94		5/9/2019	5 1" and smaller		40 1/2" Plastic	54	2,047.79	
Aldy-A	2887363	2845248	95		5/10/2019	5 1" and smaller		91 1/2" Plastic	24	2,147.61	
Aldy-A	2887501	2845248	95		5/10/2019	5 1" and smaller		32 1/2" Plastic	89	1,611.25	
Aldy-A	2887449	2845248	95		5/10/2019	5 1" and smaller		30 1/2" Plastic	84	1,779.93	
Aldy-A	2887500	2845248	95		5/10/2019	5 1" and smaller		31 1/2" Plastic	87	1,725.27	
Aldy-A	2887448	2845248	95		5/10/2019	5 1" and smaller		34 1/2" Plastic	88	1,529.86	
Aldy-A	2887447	2845248	95		5/10/2019	5 1" and smaller		31 1/2" Plastic	94	1,741.94	
Aldy-A	2887446	2845248	95		5/10/2019	5 1" and smaller		32 1/2" Plastic	86	1,390.89	
Aldy-A	2884103	2844610	95		5/13/2019	5 1" and smaller		45 1/2" Plastic	43	1,511.66	
Aldy-A	2884108	2844610	95		5/13/2019	5 1" and smaller		50 1/2" Plastic	48	1,367.14	
Aldy-A	2884107	2844610	95		5/13/2019	5 1" and smaller		49 1/2" Plastic	47	1,517.18	
Aldy-A	2884105	2844610	95		5/13/2019	5 1" and smaller		43 1/2" Plastic	41	1,844.55	
Aldy-A	2884104	2844610	95		5/13/2019	5 1" and smaller		46 1/2" Plastic	43	1,481.40	
Aldy-A	2887514	2845248	95	5/13/2019	5 1" and smaller		35 5/8" Copper	42	5		
Aldy-A	2887425	2845248	95	5/13/2019	5 1" and smaller		28 1/2" Plastic	32	1,248.56		
Aldy-A	2887512	2845248	95	5/13/2019	5 1" and smaller		30 1/2" Plastic	36	1,729.13		
Aldy-A	2887304	2845248	95	5/13/2019	5 1" and smaller		27 1/2" Plastic	30	1,537.41		
Aldy-A	2887515	2845248	95	5/13/2019	5 1" and smaller		47 1/2" Plastic	49	2,020.80		
Aldy-A	2887516	2845248	95	5/13/2019	5 1" and smaller		28 1/2" Plastic	34	1,253.45		
Aldy-A	2887495	2845248	95	5/13/2019	5 1" and smaller		34 1/2" Plastic	42	1,348.59		
Aldy-A	2854175	2776416	94	5/14/2019	5 1" and smaller		60 1" Plastic	57	1,594.45		
Aldy-A	2854180	2776416	94	5/14/2019	5 1" and smaller		67 1" Plastic	7	2,540.73		
Aldy-A	2854178	2776416	94	5/14/2019	5 1" and smaller		67 1" Plastic	64	2,505.25		
Aldy-A	2854172	2776416	94	5/14/2019	5 1" and smaller		38 1/2" Plastic	35	2,697.11		
Aldy-A	2884083	2844610	95	5/14/2019	5 1" and smaller		177 1/2" Plastic	176	3,639.27		
Aldy-A	2884098	2844610	95	5/14/2019	5 1" and smaller		52 1/2" Plastic	50	1,663.83		
Aldy-A	2887440	2845248	95	5/14/2019	5 1" and smaller		41 1/2" Plastic	94	2,566.75		
Aldy-A	2887727	2845248	95	5/14/2019	5 1" and smaller		32 1/2" Plastic	39	1,584.96		
Aldy-A	2887729	2845248	95	5/14/2019	5 1" and smaller		34 1/2" Plastic	87	1,484.96		
Aldy-A	2887691	2845248	95	5/14/2019	5 1" and smaller		45 1/2" Plastic	48	1,844.82		
Aldy-A	2887694	2845248	95	5/14/2019	5 1" and smaller		35 1/2" Plastic	39	1,661.30		
Aldy-A	2887305	2845248	95	5/14/2019	5 1" and smaller		52 1/2" Plastic	60	1,883.02		
Aldy-A	2887306	2845248	95	5/14/2019	5 1" and smaller		38 1/2" Plastic	47	1,957.62		
Aldy-A	2887307	2845248	95	5/14/2019	5 1" and smaller		35 1/2" Plastic	44	1,824.06		
Aldy-A	2887375	2845248	95	5/15/2019	5 1" and smaller		37 1/2" Plastic	44	2,210.14		
Aldy-A	2887308	2845248	95	5/15/2019	5 1" and smaller		65 1/2" Plastic	70	1,877.92		
Aldy-A	2896148	2847503	95	5/16/2019	5 1" and smaller		132 1/2" Plastic	168	5		
Aldy-A	2887835	2845248	95	5/16/2019	5 1" and smaller		30 1/2" Plastic	37	1,580.82		
Aldy-A	2887839	2845248	95	5/20/2019	5 1" and smaller		32 1/2" Plastic	40	1,504.25		
Aldy-A	2887837	2845248	95	5/20/2019	5 1" and smaller		30 1/2" Plastic	37	1,577.58		
Aldy-A	2887966	2845248	95	5/20/2019	5 1" and smaller		61 1/2" Plastic	72	1,534.20		
Aldy-A	2887962	2845248	95	5/20/2019	5 1" and smaller		36 1/2" Plastic	40	1,661.30		
Aldy-A	2887881	2845248	95	5/20/2019	5 1" and smaller		73 1/2" Plastic	80	2,329.56		
Aldy-A	2887877	2845248	95	5/20/2019	5 1" and smaller		74 1/2" Plastic	79	2,334.42		
Aldy-A	2887883	2845248	95	5/20/2019	5 1" and smaller		67 1/2" Plastic	146	2,435.49		
Aldy-A	2887836	2845248	95	5/20/2019	5 1" and smaller		42 1/2" Plastic	95	1,683.30		
Aldy-A	2887838	2845248	95	5/20/2019	5 1" and smaller		49 1/2" Plastic	88	1,609.47		
Aldy-A	2854168	2776416	94	5/21/2019	5 1" and smaller		95 1/2" Plastic	89	2,802.90		
Aldy-A	2854163	2776416	94	5/21/2019	5 1" and smaller		110 1/2" Plastic	112	2,617.97		
Aldy-A	2854164	2776416	94	5/21/2019	5 1" and smaller		79 1/2" Plastic	75	1,212.84		
Aldy-A	2854162	2776416	94	5/21/2019	5 1" and smaller		53 3/4" Steel	50	2,117.71		
Aldy-A	2854167	2776416	94	5/21/2019	5 1" and smaller		80 1/2" Plastic	84	2,938.21		
Aldy-A	2854165	2776416	94	5/21/2019	5 1" and smaller		96 1/2" Plastic	100	2,551.55		
Aldy-A	2884119	2844877	95	5/21/2019	5 1" and smaller		85 1/2" Plastic	201	2,173.76		
Aldy-A	2884483	2844877	95	5/21/2019	5 1" and smaller		43 None	47	5		
Aldy-A	2884425	2844877	95	5/21/2019	5 1" and smaller		100 1/2" Plastic	135	3,514.58		
Aldy-A	2887959	2845248	95	5/21/2019	5 1" and smaller		42 3/4" Steel	46	2,058.52		
Aldy-A	2887964	2845248	95	5/21/2019	5 1" and smaller		32 3/4" Steel	38	1,596.18		
Aldy-A	2887724	2845248	95	5/21/2019	5 1" and smaller		32 1/2" Plastic	37	1,540.80		
Aldy-A	2887682	2845248	95	5/21/2019	5 1" and smaller		43 3/4" Steel	45	2,181.14		
Aldy-A	2887728	2845248	95	5/21/2019	5 1" and smaller		32 1/2" Plastic	38	1,647.07		
Aldy-A	2887805	2845248	95	5/21/2019	5 1" and smaller		34 3/4" Steel	40	1,510.14		
Aldy-A	2887725	2845248	95	5/21/2/							

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PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

2019 Obsolete Materials Replacement Projects

Page 15 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Aldy-A	2884379	2844877	95		5/22/2019	5	1" and smaller		91 1/2" Plastic	93 \$	3,315.82
Aldy-A	2884469	2844877	95		5/22/2019	5	1" and smaller		25 1/2" Plastic	23 \$	1,308.99
Aldy-A	2884399	2844877	95		5/22/2019	5	1" and smaller		92 1/2" Plastic	122 \$	2,384.34
Aldy-A	2884419	2844877	95		5/22/2019	5	1" and smaller		92 1/2" Plastic	218 \$	2,444.04
Aldy-A	2887892	2845248	95		5/22/2019	5	1" and smaller		70 1/2" Plastic	89 \$	1,735.20
Aldy-A	2887451	2845248	95		5/22/2019	5	1" and smaller		34 1/2" Plastic	55 \$	3,654.21
Aldy-A	2887895	2845248	95		5/22/2019	5	1" and smaller		53 1/2" Plastic	112 \$	1,868.99
Aldy-A	2887716	2845248	95		5/22/2019	5	1" and smaller		30 1/2" Plastic	85 \$	1,615.46
Aldy-A	2887963	2845248	95		5/22/2019	5	1" and smaller		32 3/4" Steel	38 \$	1,566.76
Aldy-A	2887726	2845248	95		5/22/2019	5	1" and smaller		31 1/2" Plastic	85 \$	1,540.10
Aldy-A	2887796	2845248	95		5/22/2019	5	1" and smaller		29 1/2" Plastic	86 \$	1,270.46
Aldy-A	2887804	2845248	95		5/22/2019	5	1" and smaller		32 3/4" Steel	86 \$	1,473.46
Aldy-A	2887806	2845248	95		5/22/2019	5	1" and smaller		30 3/4" Steel	88 \$	1,460.82
Aldy-A	2854166	2776416	94		5/24/2019	5	1" and smaller		28 1/2" Plastic	25 \$	1,226.75
Aldy-A	2854157	2776416	94		5/24/2019	5	1" and smaller		99 1/2" Plastic	104 \$	2,073.79
Aldy-A	2854183	2776416	94		5/24/2019	5	1" and smaller		115 1/2" Plastic	108 \$	1,617.78
Aldy-A	2854585	2775065	94		6/13/2019	6	1" and smaller		45 1/2" Plastic	50 \$	979.88
Aldy-A	2854588	2775065	94		6/13/2019	6	1" and smaller		57 1/2" Plastic	55 \$	1,157.79
Aldy-A	2886409	2868816	95		6/14/2019	6	1" and smaller		35 1/2" Plastic	100 \$	2,145.97
Aldy-A	2886503	2868816	95		6/14/2019	6	1" and smaller		34 None	- \$	2,442.69
Aldy-A	2886504	2868816	95		6/14/2019	6	1" and smaller		28 1/2" Plastic	86 \$	2,573.97
Aldy-A	2886489	2868816	95		6/17/2019	6	1" and smaller		46 1/2" Plastic	86 \$	2,146.54
Aldy-A	2901428	2868816	95		6/17/2019	6	1" and smaller		37 3/4" Steel	90 \$	1,877.42
Aldy-A	2886495	2868816	95		6/17/2019	6	1" and smaller		48 1/2" Plastic	90 \$	1,296.39
Aldy-A	2886491	2868816	95		6/17/2019	6	1" and smaller		46 1/2" Plastic	85 \$	6,633.37
Aldy-A	2886501	2868816	95		6/17/2019	6	1" and smaller		50 1/2" Plastic	85 \$	1,328.62
Aldy-A	2886498	2868816	95		6/17/2019	6	1" and smaller		25 1/2" Plastic	90 \$	2,135.74
Aldy-A	2912437	2845617	95		6/18/2019	6	1" and smaller		99 1/2" Plastic	96 \$	2,387.02
Aldy-A	2896650	2845617	95		6/18/2019	6	1" and smaller		98 3/4" Steel	94 \$	2,541.80
Aldy-A	2895605	2845617	95		6/18/2019	6	1" and smaller		93 1/2" Plastic	89 \$	2,660.09
Aldy-A	2896937	2845617	95		6/18/2019	6	1" and smaller		3 1/2" Plastic	3 \$	816.79
Aldy-A	2895604	2845617	95		6/18/2019	6	1" and smaller		53 1/2" Plastic	65 \$	1,265.53
Aldy-A	2886496	2868816	95		6/18/2019	6	1" and smaller		66 1/2" Plastic	100 \$	2,153.96
Aldy-A	2886500	2868816	95		6/18/2019	6	1" and smaller		55 1/2" Plastic	115 \$	1,817.41
Aldy-A	2886492	2868816	95		6/18/2019	6	1" and smaller		49 1/2" Plastic	105 \$	2,094.68
Aldy-A	2886479	2868816	95		6/18/2019	6	1" and smaller		33 1/2" Plastic	93 \$	2,131.70
Aldy-A	2887057	2868816	95		6/18/2019	6	1" and smaller		54 1/2" Plastic	90 \$	2,270.21
Aldy-A	2887048	2868816	95		6/18/2019	6	1" and smaller		62 3/4" Steel	90 \$	1,445.14
Aldy-A	2895313	2845617	95		6/19/2019	6	1" and smaller		49 1/2" Plastic	124 \$	2,470.00
Aldy-A	2886490	2868816	95		6/19/2019	6	1" and smaller		53 1/2" Plastic	96 \$	2,275.43
Aldy-A	2887050	2868816	95		6/19/2019	6	1" and smaller		70 3/4" Steel	150 \$	1,791.94
Aldy-A	2887014	2868816	95		6/19/2019	6	1" and smaller		33 1" Plastic	56 \$	951.45
Aldy-A	2886488	2868816	95		6/19/2019	6	1" and smaller		60 1/2" Plastic	95 \$	2,008.38
Aldy-A	2886494	2868816	95		6/19/2019	6	1" and smaller		45 1/2" Plastic	95 \$	2,201.53
Aldy-A	2886502	2868816	95		6/19/2019	6	1" and smaller		61 1/2" Plastic	100 \$	2,033.83
Aldy-A	2854589	2775065	94		6/20/2019	6	1" and smaller		99 1/2" Plastic	55 \$	2,380.28
Aldy-A	2895607	2845617	95		6/20/2019	6	1" and smaller		99 1/2" Plastic	103 \$	2,679.08
Aldy-A	2886487	2868816	95		6/20/2019	6	1" and smaller		81 1/2" Plastic	78 \$	1,965.38
Aldy-A	2887052	2868816	95		6/20/2019	6	1" and smaller		60 3/4" Steel	25 \$	1,577.31
Aldy-A	2854583	2775065	94		6/21/2019	6	1" and smaller		84 1/2" Plastic	39 \$	2,141.20
Aldy-A	2854594	2775065	94		6/21/2019	6	1" and smaller		83 1/2" Plastic	37 \$	2,416.07
Aldy-A	2854582	2775065	94		6/21/2019	6	1" and smaller		86 1/2" Plastic	39 \$	2,164.76
Aldy-A	2854581	2775065	94		6/21/2019	6	1" and smaller		86 1/2" Plastic	39 \$	2,453.53
Aldy-A	2895610	2845617	95		6/21/2019	6	1" and smaller		96 1/2" Plastic	92 \$	2,445.70
Aldy-A	2895608	2845617	95		6/21/2019	6	1" and smaller		95 1/2" Plastic	91 \$	2,015.54
Aldy-A	2895606	2845617	95		6/21/2019	6	1" and smaller		99 1/2" Plastic	106 \$	2,522.18
Aldy-A	2894672	2845617	95		6/21/2019	6	1" and smaller		47 1/2" Plastic	44 \$	1,258.32
Aldy-A	2894676	2845617	95		6/21/2019	6	1" and smaller		66 1/2" Plastic	85 \$	1,536.33
Aldy-A	2895303	2845617	95		6/21/2019	6	1" and smaller		73 1/2" Plastic	72 \$	1,891.16
Aldy-A	2897245	2693360	89		6/24/2019	6	1" and smaller		89 5/8" Copper	123 \$	4,232.77
Aldy-A	2854592	2775065	94		6/24/2019	6	Tie over		1 1/2" Plastic	52 \$	3,946.25
Aldy-A	2854595	2775065	94		6/24/2019	6	1" and smaller		90 1/2" Plastic	39 \$	2,484.93
Aldy-A	2854584	2775065	94		6/24/2019	6	1" and smaller		104 1/2" Plastic	235 \$	1,325.70
Aldy-A	2895645	2845617	95		6/24/2019	6	1" and smaller		102 1/2" Plastic	98 \$	2,462.27
Aldy-A	2895609	2845617	95		6/24/2019	6	1" and smaller		38 1/2" Plastic	35 \$	1,162.65
Aldy-A	2895514	2845617	95		6/24/2019	6	1" and smaller		49 1/2" Plastic	53 \$	1,310.18
Aldy-A	2895341	2845617	95		6/24/2019	6	1" and smaller		62 1/2" Plastic	53 \$	1,374.04
Aldy-A	2895506	2845617	95		6/24/2019	6	1" and smaller		54 1/2" Plastic	49 \$	1,339.83
Aldy-A	2894659	2845617	95		6/24/2019	6	1" and smaller		49 1/2" Plastic	41 \$	3,178.71
Aldy-A	2895275	2845617	95		6/24/2019	6	1" and smaller		59 1/2" Plastic	120 \$	1,870.78
Aldy-A	2896141	2845617	95		6/24/2019	6	1" and smaller		34 1/2" Plastic	85 \$	1,501.39
Aldy-A	2894677	2845617	95		6/24/2019	6	1" and smaller		61 1/2" Plastic	56 \$	1,489.76
Aldy-A	2896347	2845617	95		6/26/2019	6	1" and smaller		105 1/2" Plastic	79 \$	2,625.00
Aldy-A	2896220	2845617	95		6/26/2019	6	1" and smaller		119 1/2" Plastic	115 \$	2,927.38
Aldy-A	2895640	2845617	95		6/26/2019	6	1" and smaller		99 1/2" Plastic	96 \$	2,498.54
Aldy-A	2894675	2845617	95		6/26/2019	6	1" and smaller		45 1/2" Plastic	38 \$	1,186.07
Aldy-A	2896144	2845617	95		6/26/2019	6	1" and smaller		24 1/2" Plastic	29 \$	1,379.96
Aldy-A	2895511	2845617	95		6/26/2019	6	1" and smaller		56 1/2" Plastic	49 \$	1,470.86
Aldy-A	2895513	2845617	95		6/26/2019	6	1" and smaller		55 1/2" Plastic	54 \$	1,392.62
Aldy-A	2895346	2845617	95		6/26/2019	6	1" and smaller		65 1/2" Plastic	60 \$	1,381.69
Aldy-A	2895641	2845617	95		6/26/2019	6	1" and smaller		103 1/2" Plastic	94 \$	2,496.35
Aldy-A	2895643	2845617	95		6/26/2019	6	1" and smaller		97 1/2" Plastic	93 \$	2,462.09
Aldy-A	2896295	2845617	95		6/27/2019	6	1" and smaller		51 1/2" Plastic	33 \$	1,548.31
Aldy-A	2896344	2845617	95		6/27/2019	6	1" and smaller		97 1/2" Plastic	94 \$	2,438.11
Aldy-A	2896343	2845617	95		6/27/2019	6	1" and smaller		27 1/2" Plastic	30 \$	1,213.77
Aldy-A	2896351	2845617	95		7/1/2019	7	1" and smaller		27 1/2" Plastic	31 \$	1,313.87
Aldy-A	2895515	2845617	95		7/1/2019	7	1" and smaller		39 1/2" Plastic	36 \$	1,435.71
Aldy-A	2895372	2845617	95		7/1/2019	7	1" and smaller		39 1/2" Plastic	44 \$	1,416.60
Aldy-A	2895516	2845617	95		7/1/2019	7	1" and smaller		42 1/2" Plastic	39 \$	1,310.23
Aldy-A	2895348	2845617	95		7/1/2019	7	1" and smaller		41 1/2" Plastic	49 \$	1,397.62
Aldy-A	2895388	2845617	95		7/1/2019	7	1" and smaller		29 1/2" Plastic	33 \$	1,335.54
Aldy-A	2895360	2845617	95		7/1/2019	7	1" and smaller		33 1/2" Plastic	30 \$	1,308.64
Aldy-A	2895361	2845617	95		7/1/2019	7	1" and smaller		47 1/2" Plastic	53 \$	1,516.44
Aldy-A	2895362	2845617	95		7/1/2019	7	1" and smaller		40 1/2" Plastic	35 \$	1,543.35
Aldy-A	2895363	2845617	95		7/1/2019	7	1" and smaller		46 1/2" Plastic	54 \$	1,663.24
Aldy-A	2895644	2845617	95		7/2/2019	7	1" and smaller		96 1/2" Plastic	97 \$	2,469.14
Aldy-A	2895614	2845617	95		7/2/2019	7	1" and smaller		30 1/2" Plastic	34 \$	1,139.21
Aldy-A	2896349	2845617	95		7/3/2019	7	1" and smaller		99 1/2" Plastic	96 \$	2,422.61
Aldy-A	2896053	2845617	95		7/3/2019	7	1" and smaller		31 1/2" Plastic	35 \$	1,241.60
Aldy-A	2896182	2845617	95		7/3/2019	7	1" and smaller		97 1/2" Plastic	93 \$	2,441.24

. . . PRIVATE DATA ENDS]

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Aldy-A	2895642	2845617	95		7/3/2019	7	1" and smaller		93 1/2" Plastic	89	2,387.91
Aldy-A	2896094	2845617	95		7/3/2019	7	1" and smaller		53 1/2" Plastic	57	1,360.46
Aldy-A	2896348	2845617	95		7/3/2019	7	1" and smaller		30 1/2" Plastic	34	1,391.67
Aldy-A	2896346	2845617	95		7/3/2019	7	1" and smaller		97 1/2" Plastic	93	2,493.85
Aldy-A	2896345	2845617	95		7/3/2019	7	1" and smaller		55 1/2" Plastic	59	1,994.18
Aldy-A	2896350	2845617	95		7/5/2019	7	1" and smaller		33 1/2" Plastic	37	1,332.21
Aldy-A	2896061	2845617	95		7/5/2019	7	1" and smaller		33 1/2" Plastic	40	1,344.29
Aldy-A	2895635	2845617	95		7/5/2019	7	1" and smaller		94 1/2" Plastic	87	2,426.68
Aldy-A	2896248	2845617	95		7/5/2019	7	1" and smaller		96 1/2" Plastic	89	2,495.96
Aldy-A	2893312	2845757	95		7/12/2019	7	1" and smaller		150 1/2" Plastic	168	3,304.97
Aldy-A	2886775	2845757	95		7/13/2019	7	1" and smaller		71 1/2" Plastic	85	2,151.99
Aldy-A	2879754	2845757	95		7/13/2019	7	1" and smaller		57 1/2" Plastic	71	1,937.80
Aldy-A	2886773	2845757	95		7/13/2019	7	1" and smaller		172 1/2" Plastic	185	3,810.01
Aldy-A	2886777	2845757	95		7/13/2019	7	1" and smaller		169 1/2" Plastic	180	3,798.00
Aldy-A	2893302	2845757	95		7/13/2019	7	1" and smaller		153 1/2" Plastic	110	4,399.44
Aldy-A	2886776	2845757	95		7/13/2019	7	1" and smaller		162 1/2" Plastic	152	3,517.84
Aldy-A	2893292	2845757	95		7/13/2019	7	1" and smaller		132 1/2" Plastic	40	3,754.32
Aldy-A	2879755	2845757	95		7/13/2019	7	1" and smaller		185 1/2" Plastic	175	2,547.27
Aldy-A	2886774	2845757	95		7/13/2019	7	1" and smaller		131 1/2" Plastic	146	3,033.59
Aldy-A	2879756	2845757	95		7/15/2019	7	1" and smaller		211 1/2" Plastic	200	4,779.79
Aldy-A	2893313	2845757	95		7/15/2019	7	1" and smaller		255 1/2" Plastic	241	5,810.88
Aldy-A	2886769	2845757	95		7/16/2019	7	1" and smaller		229 1/2" Plastic	240	4,761.94
Aldy-A	2879753	2845757	95		7/16/2019	7	1" and smaller		136 1/2" Plastic	124	3,746.92
Aldy-A	2886772	2845757	95		7/19/2019	7	1" and smaller		195 1/2" Plastic	220	4,613.96
Aldy-A	2909632	2693160	95		7/19/2019	7	1" and smaller		70 1/2" Plastic	65	1,995.49
Aldy-A	2887053	2868816	95		7/24/2019	7	1" and smaller		190 3/4" Steel	45	3,577.04
Aldy-A	2891517	2845123	95		7/30/2019	7	1" and smaller		37 1/2" Plastic	48	1,732.65
Aldy-A	2891519	2845123	95		7/30/2019	7	1" and smaller		39 1/2" Plastic	47	3,526.54
Aldy-A	2891521	2845123	95		7/30/2019	7	1" and smaller		37 1/2" Plastic	48	1,544.84
Aldy-A	2897728	2845123	95		7/30/2019	7	1" and smaller		30 None	30	1,808.90
Aldy-A	2891515	2845123	95		7/30/2019	7	1" and smaller		32 1/2" Plastic	43	1,457.64
Aldy-A	2891516	2845123	95		7/30/2019	7	1" and smaller		37 1/2" Plastic	89	1,530.13
Aldy-A	2893061	2845123	95		7/31/2019	7	1" and smaller		35 1/2" Plastic	88	1,832.76
Aldy-A	2891518	2845123	95		7/31/2019	7	1" and smaller		34 1/2" Plastic	84	1,739.87
Aldy-A	2891520	2845123	95		7/31/2019	7	1" and smaller		31 1/2" Plastic	81	1,486.12
Aldy-A	2891522	2845123	95		7/31/2019	7	1" and smaller		35 1/2" Plastic	87	1,904.09
Aldy-A	2891524	2845123	95		7/31/2019	7	1" and smaller		35 1/2" Plastic	85	1,516.93
Aldy-A	2893060	2845123	95		7/31/2019	7	1" and smaller		41 1/2" Plastic	84	1,898.38
Aldy-A	2893062	2845123	95		7/31/2019	7	1" and smaller		50 1/2" Plastic	86	1,611.20
Aldy-A	2893063	2845123	95		7/31/2019	7	1" and smaller		55 1/2" Plastic	87	1,963.48
Aldy-A	2893064	2845123	95		7/31/2019	7	1" and smaller		30 1/2" Plastic	32	1,687.89
Aldy-A	2893059	2693160	95		7/31/2019	7	1" and smaller		33 1/2" Plastic	43	1,583.85
Aldy-A	2893058	2845123	95		8/1/2019	8	1" and smaller		35 1/2" Plastic	44	2,328.46
Aldy-A	2891523	2845123	95		8/1/2019	8	1" and smaller		36 1/2" Plastic	45	1,752.65
Aldy-A	2931242	2845123	95		8/5/2019	8	1" and smaller		59 1/2" Plastic	75	2,078.91
Aldy-A	2891426	2845123	95		8/5/2019	8	1" and smaller		27 1/2" Plastic	34	1,579.13
Aldy-A	2880221	2845757	95		8/13/2019	8	1" and smaller		244 1/2" Plastic	210	5,836.26
Aldy-A	2880212	2845757	95		8/14/2019	8	1" and smaller		194 1/2" Plastic	215	3,954.46
Aldy-A	2896683	2845753	95		8/15/2019	8	1" and smaller		75 1" Plastic	190	1,973.76
Aldy-A	2896481	2845753	95		8/15/2019	8	1" and smaller		55 1/2" Plastic	55	2,158.93
Aldy-A	2896485	2845753	95		8/15/2019	8	1" and smaller		30 1/2" Plastic	30	1,583.82
Aldy-A	2896283	2845753	95		8/15/2019	8	1" and smaller		35 1/2" Plastic	35	1,470.13
Aldy-A	2896486	2845753	95		8/15/2019	8	1" and smaller		30 1/2" Plastic	30	1,426.87
Aldy-A	2896357	2845753	95		8/15/2019	8	1" and smaller		45 1/2" Plastic	45	1,222.93
Aldy-A	2896284	2845753	95		8/15/2019	8	1" and smaller		50 1/2" Plastic	50	1,235.74
Aldy-A	2896363	2845753	95		8/15/2019	8	1" and smaller		60 1/2" Plastic	45	1,368.73
Aldy-A	2896461	2845753	95		8/15/2019	8	1" and smaller		25 1/2" Plastic	110	1,716.30
Aldy-A	2896282	2845753	95		8/16/2019	8	1" and smaller		25 1/2" Plastic	30	1,194.18
Aldy-A	2896281	2845753	95		8/16/2019	8	1" and smaller		30 1/2" Plastic	32	1,344.09
Aldy-A	2896272	2845753	95		8/16/2019	8	1" and smaller		20 1/2" Plastic	23	2,129.77
Aldy-A	2880220	2845757	95		8/16/2019	8	1" and smaller		191 1/2" Plastic	145	3,886.90
Aldy-A	2896365	2845753	95		8/16/2019	8	1" and smaller		30 1/2" Plastic	33	1,068.89
Aldy-A	2896364	2845753	95		8/16/2019	8	1" and smaller		30 1/2" Plastic	33	1,087.34
Aldy-A	2893311	2845757	95		8/16/2019	8	1" and smaller		157 1/2" Plastic	171	3,365.40
Aldy-A	2893310	2845757	95		8/16/2019	8	1" and smaller		186 1/2" Plastic	198	4,125.62
Aldy-A	2896755	2845753	95		8/19/2019	8	1" and smaller		75 1/2" Plastic	70	2,443.24
Aldy-A	2896668	2845753	95		8/19/2019	8	1" and smaller		60 1" Plastic	55	3,947.23
Aldy-A	2946758	2845753	95		8/19/2019	8	1" and smaller		20 None	20	1,292.98
Aldy-A	2893314	2845757	95		8/19/2019	8	1" and smaller		313 1/2" Plastic	265	6,047.05
Aldy-A	2879832	2845757	95		8/20/2019	8	1" and smaller		123 1/2" Plastic	131	2,360.62
Aldy-A	2886755	2845757	95		8/20/2019	8	1" and smaller		200 1/2" Plastic	210	4,222.95
Aldy-A	2896675	2845753	95		8/20/2019	8	1" and smaller		75 1" Plastic	75	2,867.44
Aldy-A	2891309	2845757	95		8/21/2019	8	1" and smaller		106 1/2" Plastic	96	2,534.84
Aldy-A	2880218	2845757	95		8/21/2019	8	1" and smaller		128 1/2" Plastic	118	2,827.89
Aldy-A	2880219	2845757	95		8/21/2019	8	1" and smaller		139 1/2" Plastic	122	3,194.38
Aldy-A	2939868	2845757	95		8/21/2019	8	1" and smaller		152 1/2" Plastic	279	3,467.83
Aldy-A	2886753	2845757	95		8/21/2019	8	1" and smaller		100 1/2" Plastic	90	4,012.82
Aldy-A	2886747	2845757	95		8/21/2019	8	1" and smaller		158 1/2" Plastic	208	3,513.07
Aldy-A	2893208	2845757	95		8/21/2019	8	1" and smaller		149 1/2" Plastic	172	2,884.94
Aldy-A	2867629	2845757	95		8/22/2019	8	1" and smaller		19 1/2" Plastic	6	1,254.59
Aldy-A	2867638	2845757	95		8/22/2019	8	1" and smaller		74 1/2" Plastic	69	2,053.29
Aldy-A	2867637	2845757	95		8/22/2019	8	1" and smaller		118 1/2" Plastic	248	1,833.44
Aldy-A	2886754	2845757	95		8/22/2019	8	Tie over		2 1/2" Plastic	8	1,215.02
Aldy-A	2879830	2845757	95		8/22/2019	8	1" and smaller		107 1/2" Plastic	98	2,836.22
Aldy-A	2893307	2845757	95		8/23/2019	8	1" and smaller		104 1/2" Plastic	98	2,589.00
Aldy-A	2893306	2845757	95		8/23/2019	8	1" and smaller		85 1/2" Plastic	75	2,479.16
Aldy-A	2893305	2845757	95		8/23/2019	8	1" and smaller		149 1/2" Plastic	159	2,084.32
Aldy-A	2879831	2845757	95		8/23/2019	8	1" and smaller		72 1/2" Plastic	62	3,004.01
Aldy-A	2893304	2845757	95		8/26/2019	8	1" and smaller		99 1/2" Plastic	94	2,624.30
Aldy-A	2879803	2845757	95		8/26/2019	8	1" and smaller		102 1/2" Plastic	97	2,755.60
Aldy-A	2896704	2845753	95		8/26/2019	8	1" and smaller		45 1/2" Plastic	48	1,151.12
Aldy-A	2896706	2845753	95		8/26/2019	8	1" and smaller		45 1/2" Plastic	48	1,122.27
Aldy-A	2896799	2845753	95		8/27/2019	8	1" and smaller		53 1/2" Plastic	56	2,659.59
Aldy-A	2896800	2845753	95		8/27/2019	8	1" and smaller		65 1/2" Plastic	60	2,781.45
Aldy-A	2896707	2845753	95		8/27/2019	8	1" and smaller		45 1/2" Plastic	48	1,799.26
Aldy-A	2896708	2845753	95		8/27/2019	8	1" and smaller		50 1/2" Plastic	53	1,837.49
Aldy-A	2896801	2845753	95		8/27/2019	8	1" and smaller		50 1/2" Plastic	53	2,472.17
Aldy-A	2896792	2845753	95		8/27/2019	8	1" and smaller		55 1/2" Plastic	75	3,046.33
Aldy-A	2933703	2845757	95		8/28/2019	8	1" and smaller		313 3/4" Steel	690	2,556.16
Aldy-A	2893257	2845757	95		8/29/2019	8	1" and smaller		170 1" Plastic	500	4,427.47

. . . PRIVATE DATA ENDS]

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

2019 Obsolete Materials Replacement Projects

Page 17 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Aldy-A	2892349	2845757	95		8/29/2019	8	1" and smaller	101	1" Plastic	271	2,644.56
Aldy-A	2913469	2845753	95		8/29/2019	8	2" Plastic	-	2" Plastic	1	5,936.16
Aldy-A	2926200	2877997	98		9/5/2019	9	1" and smaller	64	1/2" Plastic	150	2,232.40
Aldy-A	2926201	2877997	98		9/5/2019	9	1" and smaller	57	1/2" Plastic	150	2,544.68
Aldy-A	2926199	2877997	98		9/6/2019	9	1" and smaller	294	1/2" Plastic	170	6,188.22
Aldy-A	2926198	2877997	98		9/6/2019	9	1" and smaller	64	1/2" Plastic	150	2,186.94
Aldy-A	2926197	2877997	98		9/6/2019	9	1" and smaller	150	1/2" Plastic	150	2,219.93
Aldy-A	2926196	2877997	98		9/6/2019	9	1" and smaller	86	1/2" Plastic	125	3,048.05
Aldy-A	2926195	2877997	98		9/6/2019	9	1" and smaller	113	1/2" Plastic	125	2,558.37
Aldy-A	2899271	2847679	95		9/6/2019	9	1" and smaller	41	1/2" Plastic	50	1,416.80
Aldy-A	2899014	2847679	95		9/7/2019	9	1" and smaller	2	1/2" Plastic	16	1,054.29
Aldy-A	2940950	2847679	95		9/7/2019	9	1" and smaller	1	1/2" Plastic	56	1,069.44
Aldy-A	2926204	2877997	98		9/9/2019	9	1" and smaller	151	1/2" Plastic	125	3,934.90
Aldy-A	2899269	2847679	95		9/9/2019	9	1" and smaller	116	1/2" Plastic	55	2,401.58
Aldy-A	2899209	2847679	95		9/9/2019	9	1" and smaller	91	1/2" Plastic	43	2,212.32
Aldy-A	2900273	2847679	95		9/10/2019	9	1" and smaller	38	1/2" Plastic	49	1,596.32
Aldy-A	2926191	2877997	98		9/10/2019	9	1" and smaller	80	1" Plastic	52	1,853.11
Aldy-A	2926190	2877997	98		9/10/2019	9	1" and smaller	80	1/2" Plastic	86	2,042.46
Aldy-A	2899268	2847679	95		9/10/2019	9	1" and smaller	121	1/2" Plastic	63	2,451.92
Aldy-A	2900211	2847679	95		9/10/2019	9	1" and smaller	92	1/2" Plastic	87	2,268.63
Aldy-A	2900271	2847679	95		9/10/2019	9	1" and smaller	30	1/2" Plastic	84	1,474.69
Aldy-A	2899274	2847679	95		9/10/2019	9	1" and smaller	32	1/2" Plastic	49	1,434.47
Aldy-A	2899272	2847679	95		9/10/2019	9	1" and smaller	40	1/2" Plastic	43	1,616.94
Aldy-A	2899267	2847679	95		9/10/2019	9	1" and smaller	114	1/2" Plastic	68	2,138.57
Aldy-A	2899270	2847679	95		9/10/2019	9	1" and smaller	44	1/2" Plastic	54	1,819.17
Aldy-A	2900272	2847679	95		9/10/2019	9	1" and smaller	43	1/2" Plastic	101	1,856.80
Aldy-A	2899011	2847679	95		9/11/2019	9	1" and smaller	123	1/2" Plastic	72	2,338.65
Aldy-A	2899015	2847679	95		9/11/2019	9	1" and smaller	98	1/2" Plastic	47	2,175.28
Aldy-A	2899273	2847679	95		9/11/2019	9	1" and smaller	88	1/2" Plastic	33	2,127.89
Aldy-A	2900276	2847679	95		9/11/2019	9	1" and smaller	33	1/2" Plastic	83	1,653.85
Aldy-A	2926205	2877997	98		9/13/2019	9	1" and smaller	94	1/2" Plastic	-	2,388.44
Aldy-A	2926188	2877997	98		9/13/2019	9	1" and smaller	46	1/2" Plastic	125	2,043.97
Aldy-A	2926202	2877997	98		9/13/2019	9	1" and smaller	53	1/2" Plastic	150	2,448.51
Aldy-A	2884664	2844752	95		9/13/2019	9	1" and smaller	90	1/2" Plastic	58	2,692.22
Aldy-A	2884700	2844752	95		9/13/2019	9	1" and smaller	45	1/2" Plastic	86	1,556.62
Aldy-A	2884691	2844752	95		9/13/2019	9	1" and smaller	111	1/2" Plastic	53	2,955.23
Aldy-A	2884566	2844752	95		9/13/2019	9	1" and smaller	124	1/2" Plastic	62	2,838.64
Aldy-A	2884698	2844752	95		9/13/2019	9	1" and smaller	44	1/2" Plastic	83	1,798.62
Aldy-A	2884625	2844752	95		9/13/2019	9	1" and smaller	98	3/4" Steel	53	2,646.75
Aldy-A	2884544	2844752	95		9/13/2019	9	1" and smaller	113	1/2" Plastic	54	2,948.22
Aldy-A	2884535	2844752	95		9/14/2019	9	1" and smaller	66	3/4" Steel	56	2,252.39
Aldy-A	2926185	2877997	98		9/16/2019	9	1" and smaller	80	1/2" Plastic	-	2,112.56
Aldy-A	2922645	2877997	98		9/16/2019	9	1" and smaller	87	1/2" Plastic	-	2,190.32
Aldy-A	2922646	2877997	98		9/16/2019	9	1" and smaller	162	1/2" Plastic	-	2,632.05
Aldy-A	2926260	2847679	95		9/17/2019	9	1" and smaller	347	None	-	7,319.20
Aldy-A	2883548	2844598	95		9/17/2019	9	1" and smaller	124	1/2" Plastic	14	4,025.20
Aldy-A	2883546	2844598	95		9/17/2019	9	1" and smaller	115	1/2" Plastic	40	3,890.89
Aldy-A	2883539	2844598	95		9/17/2019	9	1" and smaller	124	1/2" Plastic	10	4,294.86
Aldy-A	2883545	2844598	95		9/17/2019	9	1" and smaller	140	1/2" Plastic	52	3,546.93
Aldy-A	2883547	2844598	95		9/17/2019	9	1" and smaller	136	1/2" Plastic	52	4,003.75
Aldy-A	2883569	2844598	95		9/18/2019	9	1/2" Plastic	-	1/2" Plastic	15	1,333.28
Aldy-A	2883550	2844598	95		9/18/2019	9	1/2" Plastic	9	1/2" Plastic	15	1,270.96
Aldy-A	2883551	2844598	95		9/20/2019	9	1/2" Plastic	-	1/2" Plastic	15	1,405.01
Aldy-A	2883541	2844598	95		9/21/2019	9	1" and smaller	91	1/2" Plastic	98	2,577.02
Aldy-A	2883315	2844598	95		9/21/2019	9	1" and smaller	35	1/2" Plastic	30	1,625.61
Aldy-A	2883317	2844598	95		9/21/2019	9	1" and smaller	125	1/2" Plastic	130	2,208.47
Aldy-A	2883313	2844598	95		9/21/2019	9	1" and smaller	88	1/2" Plastic	91	2,635.20
Aldy-A	2883311	2844598	95		9/21/2019	9	1" and smaller	40	1/2" Plastic	36	1,757.72
Aldy-A	2883308	2844598	95		9/21/2019	9	1" and smaller	88	1/2" Plastic	93	2,495.97
Aldy-A	2951738	2948401	95		9/21/2019	9	1" and smaller	60	1/2" Plastic	80	2,146.59
Aldy-A	2951453	2948401	95		9/21/2019	9	1" and smaller	70	1-1/4" Steel	90	3,232.77
Aldy-A	2882759	2844598	95		9/23/2019	9	1" and smaller	38	1/2" Plastic	40	1,698.16
Aldy-A	2882577	2844598	95		9/23/2019	9	1" and smaller	41	1/2" Plastic	36	1,777.25
Aldy-A	2882753	2693360	95		9/23/2019	9	1" and smaller	89	1/2" Plastic	92	2,499.74
Aldy-A	2882751	2844598	95		9/23/2019	9	1" and smaller	44	1/2" Plastic	34	1,270.54
Aldy-A	2882757	2844598	95		9/23/2019	9	1" and smaller	90	1/2" Plastic	96	2,589.69
Aldy-A	2883120	2844598	95		9/23/2019	9	1" and smaller	36	1/2" Plastic	40	1,265.36
Aldy-A	2942865	2940404	95		9/24/2019	9	1" and smaller	125	1/2" Plastic	80	3,269.32
Aldy-A	2942887	2940404	95		9/24/2019	9	1" and smaller	81	1/2" Plastic	39	2,660.77
Aldy-A	2882573	2844598	95		9/24/2019	9	1" and smaller	43	1/2" Plastic	38	1,759.29
Aldy-A	2882571	2844598	95		9/24/2019	9	1" and smaller	87	1/2" Plastic	92	2,801.43
Aldy-A	2882560	2844598	95		9/24/2019	9	1" and smaller	89	1/2" Plastic	94	2,640.02
Aldy-A	2882569	2844598	95		9/24/2019	9	1" and smaller	57	1/2" Plastic	38	2,222.46
Aldy-A	2881598	2844598	95		9/25/2019	9	1" and smaller	49	1/2" Plastic	38	1,747.75
Aldy-A	2881609	2844598	95		9/25/2019	9	1" and smaller	56	1/2" Plastic	83	2,114.38
Aldy-A	2940325	2801469	98		9/26/2019	9	1/2" Plastic	-	1/2" Plastic	18	849.65
Aldy-A	2940327	2801469	98		9/26/2019	9	1/2" Plastic	-	1/2" Plastic	205	496.08
Aldy-A	2940326	2801469	98		9/27/2019	9	1" and smaller	164	1/2" Plastic	185	3,932.00
Aldy-A	2940340	2801469	98		9/27/2019	9	1" and smaller	79	1/2" Plastic	78	2,458.85
Aldy-A	2940332	2801469	98		9/27/2019	9	1" and smaller	52	1/2" Plastic	52	1,901.45
Aldy-A	2940334	2801469	98		9/27/2019	9	1" and smaller	56	1/2" Plastic	50	1,769.57
Aldy-A	2940338	2801469	98		9/27/2019	9	1" and smaller	39	1/2" Plastic	45	1,821.31
Aldy-A	2940333	2801469	98		9/27/2019	9	1" and smaller	110	1/2" Plastic	137	3,163.50
Aldy-A	2940328	2801469	98		9/27/2019	9	1/2" Plastic	-	1/2" Plastic	183	496.08
Aldy-A	2882760	2844598	95		9/27/2019	9	1" and smaller	30	1/2" Plastic	35	1,512.19
Aldy-A	2883312	2844598	95		9/28/2019	9	1" and smaller	28	1/2" Plastic	32	1,680.05
Aldy-A	2883314	2844598	95		9/28/2019	9	1" and smaller	125	1/2" Plastic	120	2,113.96
Aldy-A	2883316	2844598	95		9/28/2019	9	1" and smaller	33	1/2" Plastic	40	1,671.31
Aldy-A	2883538	2844598	95		9/28/2019	9	1" and smaller	126	1/2" Plastic	116	3,123.04
Aldy-A	2882758	2844598	95		9/30/2019	9	1" and smaller	132	1/2" Plastic	128	3,386.92
Aldy-A	2882756	2844598	95		9/30/2019	9	1" and smaller	33	1/2" Plastic	40	1,183.20
Aldy-A	2882752	2844598	95		9/30/2019	9	1" and smaller	117	1/2" Plastic	111	2,879.89
Aldy-A	2882754	2844598	95		9/30/2019	9	1" and smaller	120	1/2" Plastic	116	3,066.62
Aldy-A	2882574	2844598	95		9/30/2019	9	1" and smaller	33	1/2" Plastic	36	1,761.34
Aldy-A	2882570	2844598	95		9/30/2019	9	1" and smaller	34	1/2" Plastic	40	1,776.97
Aldy-A	2882578	2844598	95		9/30/2019	9	1" and smaller	126	1/2" Plastic	122	3,185.82
Aldy-A	2960176	2844598	95		9/30/2019	9	1" and smaller	35	1/2" Plastic	34	1,406.01
Aldy-A	2883309	2844598	95		9/30/2019	9	1" and smaller	121	1/2" Plastic	118	3,022.08
Aldy-A	2940335	2801469	98		10/1/2019	10	1" and smaller	61	1/2" Plastic	46	2,224.45
Aldy-A	2940336	2801469	98		10/1/2019	10	1" and smaller	46	1/2" Plastic	38	1,685.28

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PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

2019 Obsolete Materials Replacement Projects

Page 18 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Aldy-A	2882572	2844598	95		10/1/2019	10	1" and smaller	36	1/2" Plastic	40	1,819.55
Aldy-A	2882576	2844598	95		10/1/2019	5	1" and smaller	5	1/2" Plastic	5	1,009.65
Aldy-A	2882568	2844598	95		10/1/2019	10	1" and smaller	110	1/2" Plastic	110	2,929.78
Aldy-A	2940329	2801469	98		10/2/2019	10	-	-	1/2" Plastic	6	800.38
Aldy-A	2881389	2844598	95		10/10/2019	10	1" and smaller	38	1/2" Plastic	35	2,228.65
Aldy-A	2880995	2844598	95		10/10/2019	10	1" and smaller	70	1/2" Plastic	35	2,491.87
Aldy-A	2881381	2844598	95		10/10/2019	9	1" and smaller	63	1/2" Plastic	35	2,888.78
Aldy-A	2881360	2844598	95		10/10/2019	10	1" and smaller	75	1/2" Plastic	35	2,875.63
Aldy-A	2881386	2844598	95		10/10/2019	10	1" and smaller	61	1/2" Plastic	35	2,631.28
Aldy-A	2880939	2844598	95		10/10/2019	10	1" and smaller	81	1/2" Plastic	35	2,910.04
Aldy-A	2880934	2844598	95		10/11/2019	10	1" and smaller	86	1/2" Plastic	35	2,864.63
Aldy-A	2881002	2844598	95		10/11/2019	10	1" and smaller	87	1/2" Plastic	35	2,909.46
Aldy-A	2880927	2844598	95		10/11/2019	10	1" and smaller	26	1/2" Plastic	31	1,822.93
Aldy-A	2880935	2844598	95		10/11/2019	10	1" and smaller	104	1/2" Plastic	55	3,164.52
Aldy-A	2880942	2844598	95		10/11/2019	10	1" and smaller	87	1/2" Plastic	10	2,771.51
Aldy-A	2880937	2844598	95		10/11/2019	10	1" and smaller	68	1/2" Plastic	10	2,891.84
Aldy-A	2880940	2844598	95		10/14/2019	10	1" and smaller	87	1/2" Plastic	55	3,174.34
Aldy-A	2881379	2844598	95		10/14/2019	10	1" and smaller	71	1/2" Plastic	10	2,725.34
Aldy-A	2881344	2844598	95		10/14/2019	10	1" and smaller	61	1/2" Plastic	10	2,688.71
Aldy-A	2881388	2844598	95		10/16/2019	10	1" and smaller	71	1/2" Plastic	10	2,711.08
Aldy-A	2977480	2844598	95		10/16/2019	10	1" and smaller	75	1/2" Plastic	9	2,687.00
Aldy-A	2881293	2844598	95		10/16/2019	10	1" and smaller	97	1/2" Plastic	55	3,551.22
Aldy-A	2881382	2844598	95		10/16/2019	10	1" and smaller	93	1/2" Plastic	10	3,220.23
Aldy-A	2881400	2844598	95		10/16/2019	10	1" and smaller	89	1/2" Plastic	55	3,169.66
Aldy-A	2881384	2844598	95		10/16/2019	10	1" and smaller	83	1/2" Plastic	10	2,933.23
Aldy-A	2881297	2844598	95		10/16/2019	10	1" and smaller	79	1/2" Plastic	55	2,924.92
Aldy-A	2881390	2844598	95		10/17/2019	10	1" and smaller	84	1/2" Plastic	143	2,866.89
Aldy-A	2881387	2844598	95		10/17/2019	10	1" and smaller	62	1/2" Plastic	143	2,407.17
Aldy-A	2881383	2844598	95		10/17/2019	10	1" and smaller	70	1/2" Plastic	162	2,788.49
Aldy-A	2881385	2844598	95		10/17/2019	10	1" and smaller	101	1/2" Plastic	30	3,188.75
Aldy-A	2881380	2844598	95		10/17/2019	10	1" and smaller	95	1/2" Plastic	50	3,179.33
Aldy-A	2881001	2844598	95		10/17/2019	10	1" and smaller	70	1/2" Plastic	95	2,871.51
Aldy-A	2881361	2844598	95		10/17/2019	10	1" and smaller	76	1/2" Plastic	128	2,702.86
Aldy-A	2880936	2844598	95		10/18/2019	10	1" and smaller	66	1/2" Plastic	150	2,576.59
Aldy-A	2880938	2844598	95		10/18/2019	10	1" and smaller	104	1/2" Plastic	30	3,312.09
Aldy-A	2880941	2844598	95		10/18/2019	10	1" and smaller	71	1/2" Plastic	125	3,105.44
Aldy-A	2881298	2844598	95		10/18/2019	10	1" and smaller	104	1/2" Plastic	30	3,675.72
Aldy-A	2881000	2844598	95		10/18/2019	10	1" and smaller	76	1/2" Plastic	142	2,889.31
Aldy-A	2881435	2844598	95		10/18/2019	10	1" and smaller	99	1/2" Plastic	30	3,228.73
Aldy-A	2963136	2844627	95		10/22/2019	10	1" and smaller	268	1" Plastic	262	2,486.39
Aldy-A	2963228	2844627	95		10/23/2019	10	1" and smaller	68	1/2" Plastic	70	1,558.85
Aldy-A	2963206	2844627	95		10/23/2019	10	1" and smaller	106	1" Plastic	100	2,774.62
Aldy-A	2962739	2844627	95		10/23/2019	10	1" and smaller	114	1/2" Plastic	123	2,706.57
Aldy-A	2963363	2844627	95		10/23/2019	10	1" and smaller	75	1/2" Plastic	70	1,490.40
Aldy-A	2963239	2844627	95		10/24/2019	10	1" and smaller	65	1/2" Plastic	62	2,215.93
Aldy-A	2962746	2844627	95		10/24/2019	10	1" and smaller	102	1/2" Plastic	107	2,535.98
Aldy-A	2963170	2844627	95		10/24/2019	10	1" and smaller	83	1" Plastic	150	1,492.35
Aldy-A	2962744	2844627	95		10/25/2019	10	1" and smaller	111	1/2" Plastic	113	2,876.36
Aldy-A	2962743	2844627	95		10/25/2019	10	1" and smaller	68	1/2" Plastic	52	1,480.57
Aldy-A	2963211	2693360	95		10/25/2019	10	1" and smaller	108	1" Plastic	102	2,649.80
Aldy-A	2858852	2851183	98		10/29/2019	10	1" and smaller	51	1/2" Plastic	53	1,788.14
Aldy-A	2858851	2851183	98		10/29/2019	10	1" and smaller	112	1/2" Plastic	119	2,810.37
Aldy-A	2858881	2851183	98		10/29/2019	10	1" and smaller	85	1/2" Plastic	88	2,240.91
Aldy-A	2858871	2851183	98		10/29/2019	10	1" and smaller	43	1/2" Plastic	49	1,795.72
Aldy-A	2984344	2844627	95		10/30/2019	10	1" and smaller	63	3/4" Steel	65	2,403.43
Aldy-A	2858868	2851183	98		10/30/2019	10	1" and smaller	45	1/2" Plastic	40	1,494.12
Aldy-A	2858873	2851183	98		10/30/2019	10	1" and smaller	102	1/2" Plastic	90	2,662.53
Aldy-A	2858889	2851183	98		10/30/2019	10	1" and smaller	69	1/2" Plastic	95	2,292.16
Aldy-A	2858891	2851183	98		10/30/2019	10	1" and smaller	85	1/2" Plastic	90	2,453.25
Aldy-A	2858883	2851183	98		10/30/2019	10	1" and smaller	89	1/2" Plastic	93	2,378.81
Aldy-A	2858888	2851183	98		10/30/2019	10	1" and smaller	84	1/2" Plastic	80	2,347.96
Aldy-A	2858877	2851183	98		10/30/2019	10	1" and smaller	81	1/2" Plastic	86	2,285.51
Aldy-A	2985548	2844627	95		10/31/2019	10	1" and smaller	118	3/4" Steel	247	2,784.29
Aldy-A	2962745	2844627	95		10/31/2019	10	1" and smaller	57	1/2" Plastic	48	1,792.10
Aldy-A	2858847	2851183	98		10/31/2019	10	1" and smaller	102	1/2" Plastic	99	2,618.05
Aldy-A	2858848	2851183	98		10/31/2019	10	1" and smaller	61	1/2" Plastic	60	2,077.98
Aldy-A	2858865	2851183	98		10/31/2019	10	1" and smaller	102	1/2" Plastic	102	2,662.53
Aldy-A	2858874	2851183	98		10/31/2019	10	1" and smaller	104	1/2" Plastic	108	2,722.81
Aldy-A	2983877	2844627	95		11/1/2019	11	1" and smaller	103	3/4" Steel	475	2,395.63
Aldy-A	2858836	2851183	98		11/1/2019	11	1" and smaller	120	1/2" Plastic	129	2,915.98
Aldy-A	2858844	2851183	98		11/1/2019	11	1" and smaller	92	1/2" Plastic	90	2,425.70
Aldy-A	2858843	2851183	98		11/2/2019	11	1" and smaller	98	1/2" Plastic	94	2,697.64
Aldy-A	2858845	2851183	98		11/2/2019	11	1" and smaller	99	1/2" Plastic	96	2,677.68
Aldy-A	2858835	2851183	98		11/4/2019	11	1" and smaller	87	1/2" Plastic	62	2,141.79
Aldy-A	2858837	2851183	98		11/4/2019	11	1" and smaller	144	1/2" Plastic	140	3,432.87
Aldy-A	2858839	2851183	98		11/4/2019	11	1" and smaller	99	1/2" Plastic	99	2,677.68
Aldy-A	2858841	2851183	98		11/4/2019	11	1" and smaller	96	1/2" Plastic	87	2,510.92
Aldy-A	2858838	2851183	98		11/4/2019	11	1" and smaller	88	1/2" Plastic	89	2,383.02
Aldy-A	2893274	2845757	95		11/5/2019	11	1" and smaller	69	1" Plastic	74	2,141.04
Aldy-A	2893303	2845757	95		11/5/2019	11	1" and smaller	122	1/2" Plastic	125	2,831.84
Aldy-A	2962043	2844627	95		11/6/2019	11	1" and smaller	37	1/2" Plastic	36	1,394.97
Aldy-A	2858849	2851183	98		11/6/2019	11	1" and smaller	92	1/2" Plastic	96	2,224.45
Aldy-A	2961871	2844627	95		11/7/2019	11	1" and smaller	90	1/2" Plastic	84	2,342.39
Aldy-A	2962493	2844627	95		11/7/2019	11	1" and smaller	36	1/2" Plastic	38	1,279.61
Aldy-A	2962492	2844627	95		11/7/2019	11	1" and smaller	40	1/2" Plastic	39	1,060.69
Aldy-A	2961862	2844627	95		11/7/2019	11	1" and smaller	86	1/2" Plastic	83	2,209.75
Aldy-A	2962490	2844627	95		11/7/2019	11	1" and smaller	40	1/2" Plastic	39	1,037.54
Aldy-A	2961870	2844627	95		11/8/2019	11	1" and smaller	85	1/2" Plastic	83	2,449.54
Aldy-A	2961999	2844627	95		11/8/2019	11	1" and smaller	97	1/2" Plastic	93	1,582.18
Aldy-A	2962369	2844627	95		11/8/2019	11	1" and smaller	34	1/2" Plastic	34	1,033.80
Aldy-A	2961868	2844627	95		11/8/2019	11	1" and smaller	87	1/2" Plastic	82	2,873.13
Aldy-A	2961872	2844627	95		11/11/2019	11	1" and smaller	110	1/2" Plastic	80	2,622.43
Aldy-A	2992591	2844627	95		11/11/2019	11	1" and smaller	40	1/2" Plastic	42	1,316.95
Aldy-A	2971707	2968818	89		11/18/2019	11	1" and smaller	38	1/2" Plastic	40	1,116.60
Aldy-A	2971704	2968818	89		11/18/2019	11	1" and smaller	93	1/2" Plastic	92	2,452.51
Aldy-A	2971705	2968818	89		11/18/2019	11	1" and smaller	68	1/2" Plastic	55	2,001.51
Aldy-A	2971706	2968818	89		11/18/2019	11	1" and smaller	141	1/2" Plastic	151	3,215.75
Aldy-A	2971708	2968818	89		11/19/2019	11	1" and smaller	128	1/2" Plastic	115	3,023.39
Aldy-A	2971712	2968818	89		11/19/2019	11	1" and smaller	82	1/2" Plastic	70	2,184.32
Aldy-A	2971709	2968818	89		11/19/2019	11	1" and smaller	143	1/2" Plastic	136	3,285.78

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[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
Aldy-A	2971746	2968818	89	[REDACTED]	11/19/2019	11	1" and smaller	124	1/2" Plastic	130	2,938.83
Aldy-A	2971711	2968818	89		11/19/2019	11	1" and smaller	117	1/2" Plastic	115	2,864.07
Aldy-A	2971710	2968818	89		11/19/2019	11	1" and smaller	97	1/2" Plastic	107	2,551.02
Aldy-A	2971713	2968818	89		11/20/2019	11	1" and smaller	21	1/2" Plastic	21	1,249.03
Aldy-A	2995188	2968818	89		11/20/2019	11	1" and smaller	34	1/2" Plastic	122	1,463.63
Aldy-A	2973609	2968818	89		11/20/2019	11	1" and smaller	97	1/2" Plastic	109	2,589.04
Aldy-A	2971714	2968818	89		11/20/2019	11	1" and smaller	12	1/2" Plastic	12	1,278.94
Aldy-A	2973608	2968818	89		11/21/2019	11	1" and smaller	72	1/2" Plastic	64	1,290.41
Aldy-A	2973610	2968818	89		11/21/2019	11	1" and smaller	94	1/2" Plastic	87	2,422.32
Aldy-A	2994564	2968818	89		11/21/2019	11	1" and smaller	4	1" Plastic	11	634.64
Aldy-A	2973612	2968818	89		11/21/2019	11	1" and smaller	17	1/2" Plastic	24	1,026.11
Aldy-A	2973613	2968818	89		11/21/2019	11	1" and smaller	105	1/2" Plastic	112	2,603.18
Aldy-A	2973611	2968818	89		11/21/2019	11	1" and smaller	84	1/2" Plastic	103	2,361.42
Aldy-A	2995187	2968818	89		11/21/2019	11	1" and smaller	42	1/2" Plastic	54	1,603.95
Aldy-A	2973617	2968818	89		11/22/2019	11	1" and smaller	116	1/2" Plastic	114	2,899.23
Aldy-A	2973616	2968818	89		11/22/2019	11	1" and smaller	104	1/2" Plastic	105	2,714.64
Aldy-A	2996386	2968818	89		11/22/2019	11	1" and smaller	100	1/2" Plastic	102	1,935.05
Aldy-A	2973614	2968818	89		11/22/2019	11	1" and smaller	107	1/2" Plastic	101	2,751.72
Aldy-A	2973615	2968818	89		11/22/2019	11	1" and smaller	100	1/2" Plastic	90	2,635.75
Aldy-A	2997120	2846177	95		12/2/2019	12	1" and smaller	35	3/4" Steel	225	1,981.22
Aldy-A	2997193	2846177	95		12/2/2019	12	1" and smaller	68	1" Plastic	8	2,643.06
Aldy-A	2880943	2844598	95		12/4/2019	12	1" and smaller	72	1/2" Plastic	35	3,046.21
Aldy-A	2961946	2844627	95		12/4/2019	12	1" and smaller	35	1/2" Plastic	38	1,733.42
X-trube	2671558	2693360	97		3/15/2019	3	1" and smaller	38	1/2" Plastic	38	7,045.01
X-trube	2671554	2693360	97		4/22/2019	4	1" and smaller	41	3/4" Steel	44	2,428.07
X-trube	2672211	2693360	97		4/22/2019	4	1" and smaller	70	3/4" Steel	72	2,063.82
X-trube	2671547	2693360	97		4/23/2019	4	1" and smaller	93	3/4" Steel	97	2,944.74
X-trube	2671533	2693360	97		4/23/2019	4	1" and smaller	109	3/4" Steel	111	3,191.29
X-trube	2671967	2693360	97		4/23/2019	4	1" and smaller	88	1/2" Plastic	90	3,295.40
X-trube	2671550	2693360	97		4/23/2019	4	1" and smaller	86	3/4" Steel	84	2,845.05
X-trube	2671542	2693360	97		4/23/2019	4	1" and smaller	126	3/4" Steel	128	3,650.26
X-trube	2671536	2693360	97		4/24/2019	4	1" and smaller	80	1/2" Plastic	84	1,956.58
X-trube	2672192	2693360	97		4/24/2019	4	1" and smaller	100	1/2" Plastic	106	2,031.02
X-trube	2675812	2693360	95		4/24/2019	4	1" and smaller	117	3/4" Steel	121	3,232.16
X-trube	2676676	2693360	97		4/25/2019	4	1" and smaller	30	3/4" Steel	33	3,123.16
X-trube	2672229	2693360	97		4/25/2019	4	1" and smaller	125	3/4" Steel	129	3,013.99
X-trube	2672225	2693360	97		4/26/2019	4	1" and smaller	40	3/4" Steel	42	1,788.37
X-trube	2672203	2693360	97		4/26/2019	4	1" and smaller	36	3/4" Steel	38	1,663.86
X-trube	2672217	2693360	97		4/26/2019	4	1" and smaller	19	3/4" Steel	21	1,582.46
X-trube	2672174	2693360	97		4/29/2019	4	1" and smaller	118	3/4" Steel	120	2,566.48
X-trube	2672170	2693360	97		4/29/2019	4	1" and smaller	46	3/4" Steel	50	1,700.87
X-trube	2659180	2693360	89		4/29/2019	4	1" and smaller	52	3/4" Steel	56	2,060.72
X-trube	2659184	2693360	89		4/30/2019	4	1" and smaller	37	3/4" Steel	37	2,700.81
X-trube	2672233	2693360	89		4/30/2019	4	1" and smaller	42	3/4" Steel	48	1,962.45
X-trube	2659183	2693360	89		4/30/2019	4	1" and smaller	33	3/4" Steel	36	2,356.31
X-trube	2749578	2693360	97		5/1/2019	5	1" and smaller	150	3/4" Steel	166	3,933.19
X-trube	2522780	2693360	97		5/1/2019	5	1" and smaller	162	3/4" Steel	164	3,113.99
X-trube	2672180	2693360	97		5/1/2019	5	1" and smaller	136	3/4" Steel	195	3,415.76
X-trube	2672186	2693360	97		5/1/2019	5	1" and smaller	110	3/4" Steel	90	3,320.33
X-trube	2522788	2693360	97		5/1/2019	5	1" and smaller	24	3/4" Steel	28	1,673.45
X-trube	2883099	2693360	95		5/1/2019	5	1" and smaller	81	3/4" Steel	85	2,018.80
X-trube	2655493	2693360	89		5/2/2019	5	1" and smaller	40	3/4" Steel	45	2,626.83
X-trube	2671456	2693360	97		5/2/2019	5	1" and smaller	21	3/4" Steel	46	1,807.57
X-trube	2672196	2693360	97		5/2/2019	5	1" and smaller	83	3/4" Steel	86	2,201.09
X-trube	2551744	2693360	97		5/2/2019	5	1" and smaller	39	3/4" Steel	42	1,824.80
X-trube	2672214	2693360	97		5/3/2019	5	1" and smaller	111	1/2" Plastic	113	4,801.78
X-trube	2672242	2693360	97		5/6/2019	5	1" and smaller	34	3/4" Steel	36	1,738.97
X-trube	2672241	2693360	97		5/6/2019	5	1" and smaller	128	3/4" Steel	129	3,276.12
X-trube	2883757	2693360	95		5/7/2019	5	1" and smaller	80	3/4" Steel	84	3,278.01
X-trube	2878554	2693360	97		5/7/2019	5	1" and smaller	84	3/4" Steel	84	3,010.16
X-trube	2672221	2693360	97		5/8/2019	5	1" and smaller	51	3/4" Steel	55	3,123.05
X-trube	2672257	2693360	97		5/8/2019	5	1" and smaller	92	3/4" Steel	96	3,690.39
X-trube	2672246	2693360	97		5/8/2019	5	1" and smaller	71	3/4" Steel	73	2,511.56
X-trube	2889748	2693360	95		5/9/2019	5	1" and smaller	73	3/4" Steel	78	3,978.88
X-trube	2887067	2693360	97		5/9/2019	5	1" and smaller	70	3/4" Steel	70	2,853.95
X-trube	2887068	2693360	97		5/10/2019	5	1" and smaller	47	3/4" Steel	49	2,262.19
X-trube	2654953	2693360	89		5/10/2019	5	1" and smaller	47	3/4" Steel	48	3,323.44
X-trube	2583329	2693360	89		5/13/2019	5	1" and smaller	77	3/4" Steel	77	2,687.70
X-trube	2591190	2693360	89		5/13/2019	5	1" and smaller	91	3/4" Steel	95	2,850.13
X-trube	2654930	2693360	89		5/13/2019	5	1" and smaller	74	3/4" Steel	91	2,325.28
X-trube	2654926	2693360	89		5/13/2019	5	1" and smaller	73	3/4" Steel	74	2,766.79
X-trube	2654957	2693360	89		5/13/2019	5	1" and smaller	103	3/4" Steel	103	2,039.25
X-trube	2654913	2693360	89		5/13/2019	5	1" and smaller	84	3/4" Steel	84	1,988.02
X-trube	2654924	2693360	89		5/13/2019	5	1" and smaller	91	3/4" Steel	90	3,120.52
X-trube	2654948	2693360	89		5/13/2019	5	1" and smaller	74	3/4" Steel	74	2,340.36
X-trube	2654931	2693360	89		5/13/2019	5	1" and smaller	90	3/4" Steel	90	2,092.71
X-trube	2654916	2693360	89		5/13/2019	5	1" and smaller	81	3/4" Steel	81	2,069.36
X-trube	2654920	2693360	89		5/13/2019	5	1" and smaller	80	3/4" Steel	89	3,269.65
X-trube	2654928	2693360	89		5/13/2019	5	1" and smaller	68	3/4" Steel	68	4,259.78
X-trube	2730043	2693360	89		5/13/2019	5	1" and smaller	62	3/4" Steel	69	2,092.05
X-trube	2654951	2693360	89		5/13/2019	5	1" and smaller	40	3/4" Steel	46	1,957.15
X-trube	2655503	2693360	89		5/14/2019	5	1" and smaller	44	3/4" Steel	44	3,216.95
X-trube	2669208	2693360	89		5/14/2019	5	1" and smaller	91	3/4" Steel	95	2,989.86
X-trube	2669209	2693360	89		5/15/2019	5	1" and smaller	31	3/4" Steel	33	2,316.25
X-trube	2669207	2693360	89		5/15/2019	5	1" and smaller	55	3/4" Steel	54	2,427.10
X-trube	2678830	2693360	89		5/16/2019	5	1" and smaller	59	3/4" Steel	59	2,460.35
X-trube	2669205	2693360	89		5/16/2019	5	1" and smaller	98	3/4" Steel	98	4,255.12
X-trube	2887070	2693360	89		5/16/2019	5	1" and smaller	63	3/4" Steel	63	1,564.22
X-trube	2678828	2693360	89		5/16/2019	5	1" and smaller	43	3/4" Steel	106	3,507.94
X-trube	2669274	2693360	89		5/17/2019	5	1" and smaller	110	3/4" Steel	113	5,713.82
X-trube	2887065	2693360	89		5/17/2019	5	1" and smaller	70	3/4" Steel	73	3,659.37
X-trube	2655495	2693360	89		5/17/2019	5	1" and smaller	39	3/4" Steel	78	2,746.10
X-trube	2655496	2693360	89		5/20/2019	5	1" and smaller	87	3/4" Steel	87	2,377.13
X-trube	2672223	2693360	97		5/20/2019	5	1" and smaller	98	3/4" Steel	98	2,716.94
X-trube	2874095	2693360	97		5/20/2019	5	1" and smaller	66	3/4" Steel	68	2,214.79
X-trube	2881318	2693360	97		5/20/2019	5	1" and smaller	34	3/4" Steel	36	2,403.60
X-trube	2880873	2693360	97		5/20/2019	5	1" and smaller	27	3/4" Steel	32	1,743.92
X-trube	2887071	2693360	97		5/20/2019	5	1" and smaller	95	3/4" Steel	100	2,968.71
X-trube	2891493	2693360	97		5/20/2019	5	1" and smaller	22	3/4" Steel	23	3,000.42
X-trube					5/20/2019	5	1" and smaller	72	3/4" Steel	74	1,963.50

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Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
X-trube	2887069	2693360	97		5/20/2019	5	1" and smaller		97 3/4" Steel	101	4,219.96
X-trube	2671452	2693360	97		5/20/2019	5	1" and smaller		20 3/4" Steel	106	2,602.88
X-trube	2678847	2693360	89		5/21/2019	5	1" and smaller		80 3/4" Steel	80	2,850.42
X-trube	2678846	2693360	89		5/21/2019	5	1" and smaller		119 3/4" Steel	127	2,880.87
X-trube	2678845	2693360	89		5/21/2019	5	1" and smaller		90 3/4" Steel	90	2,998.61
X-trube	2675977	2693360	89		5/23/2019	5	1" and smaller		120 3/4" Steel	120	4,625.83
X-trube	2675972	2693360	89		5/23/2019	5	1" and smaller		17 3/4" Steel	17	1,720.00
X-trube	2678831	2693360	89		5/23/2019	5	1" and smaller		97 3/4" Steel	102	2,476.38
X-trube	2678848	2693360	89		5/28/2019	5	1" and smaller		108 3/4" Steel	104	3,341.45
X-trube	2675978	2693360	89		5/28/2019	5	1" and smaller		41 3/4" Steel	41	3,886.76
X-trube	2669272	2693360	89		5/29/2019	5	1" and smaller		66 3/4" Steel	66	3,849.45
X-trube	2669271	2693360	89		5/29/2019	5	1" and smaller		97 3/4" Steel	92	4,582.07
X-trube	2675975	2693360	89		5/29/2019	5	1" and smaller		107 3/4" Steel	108	2,989.73
X-trube	2889713	2693360	89		5/29/2019	5	1" and smaller		96 5/8" Copper	96	4,824.60
X-trube	2675980	2693360	89		5/30/2019	5	1" and smaller		73 3/4" Steel	73	2,149.24
X-trube	2669181	2693360	89		5/31/2019	5	1" and smaller		12 3/4" Steel	12	4,583.46
X-trube	2897244	2693360	89		6/3/2019	6	1" and smaller		212 5/8" Copper	217	3,187.35
X-trube	2684724	2693360	89		6/4/2019	6	1" and smaller		101 3/4" Steel	93	3,182.80
X-trube	2903641	2693360	89		6/5/2019	100	3/8" Copper		100 3/8" Copper	111	3,816.63
X-trube	2870061	2693360	95		6/10/2019	6	1" and smaller		76 3/4" Steel	86	3,188.08
X-trube	2889885	2693360	95		6/10/2019	6	1" and smaller		108 3/4" Steel	108	3,440.92
X-trube	2889867	2693360	95		6/11/2019	6	1" and smaller		90 3/4" Steel	90	2,848.68
X-trube	2883160	2693360	95		6/12/2019	6	1" and smaller		78 3/4" Steel	79	3,076.60
X-trube	2883366	2693360	95		6/12/2019	6	1" and smaller		58 3/4" Steel	57	1,733.93
X-trube	2910776	2693360	97		6/20/2019	6	1" and smaller		75 3/4" Steel	75	2,037.73
X-trube	2910794	2693360	97		6/20/2019	6	1" and smaller		96 3/4" Steel	98	2,335.65
X-trube	2913908	2693360	95		7/11/2019	7	1" and smaller		54 1/2" Plastic	53	1,892.98
X-trube	2883140	2693360	95		7/12/2019	7	1" and smaller		60 3/4" Steel	60	2,118.92
X-trube	2924896	2693360	95		7/23/2019	7	1" and smaller		38 1/2" Plastic	38	2,140.92
X-trube	2912485	2904175	89		8/7/2019	8	1" and smaller		55 3/4" Steel	55	1,734.57
X-trube	2912486	2904175	89		8/7/2019	8	1" and smaller		73 1/2" Plastic	134	1,826.26
X-trube	2912487	2904175	89		8/8/2019	8	1" and smaller		89 1/2" Plastic	48	2,820.98
X-trube	2918948	2693360	89		8/22/2019	8	1" and smaller		103 3/4" Steel	103	1,660.81
X-trube	2948684	2693360	89		8/27/2019	8	1" and smaller		103 3/4" Steel	98	4,117.37
X-trube	2944826	2693360	89		8/27/2019	8	1" and smaller		104 3/4" Steel	112	3,300.08
X-trube	2945743	2693360	97		9/16/2019	9	1" and smaller		12 3/4" Steel	16	1,544.36
X-trube	2872005	2693360	97		9/16/2019	9	1" and smaller		18 3/4" Steel	19	1,605.27
X-trube	2937115	2693360	97		9/16/2019	9	1" and smaller		31 3/4" Steel	31	1,635.77
X-trube	2947701	2693360	95		9/20/2019	9	1" and smaller		67 3/4" Steel	67	2,533.78
X-trube	2948034	2693360	95		9/20/2019	9	1" and smaller		52 3/4" Steel	52	2,042.46
X-trube	2944337	2693360	95		9/20/2019	9	1" and smaller		69 3/4" Steel	69	2,594.30
X-trube	2945353	2693360	95		9/20/2019	9	1" and smaller		88 3/4" Steel	80	3,033.77
X-trube	2944343	2693360	95		9/20/2019	9	1" and smaller		69 3/4" Steel	84	2,945.85
X-trube	2943623	2693360	95		9/23/2019	9	1" and smaller		27 3/4" Steel	27	1,858.41
X-trube	2947702	2693360	95		9/23/2019	9	1" and smaller		84 3/4" Steel	84	3,253.70
X-trube	2945823	2693360	95		9/23/2019	9	1" and smaller		43 3/4" Steel	57	2,851.36
X-trube	2946828	2693360	95		9/23/2019	9	1" and smaller		42 3/4" Steel	42	1,963.75
X-trube	2945689	2693360	95		9/24/2019	9	1" and smaller		61 3/4" Steel	76	2,805.63
X-trube	2947722	2693360	95		9/24/2019	9	1" and smaller		84 3/4" Steel	84	2,164.39
X-trube	2945750	2693360	95		9/24/2019	9	1" and smaller		50 1/2" Plastic	50	2,466.26
X-trube	2945751	2693360	95		9/24/2019	59	1/2" Plastic		71 3/4" Steel	71	2,794.57
X-trube	2948065	2693360	95		9/24/2019	9	1" and smaller		63 3/4" Steel	66	2,716.39
X-trube	2948064	2693360	95		9/25/2019	79	3/4" Steel		79 3/4" Steel	79	3,012.34
X-trube	2946687	2693360	95		9/25/2019	67	3/4" Steel		67 3/4" Steel	67	2,876.95
X-trube	2947425	2693360	95		9/25/2019	87	3/4" Steel		87 3/4" Steel	87	2,362.99
X-trube	2947724	2693360	95		9/26/2019	78	3/4" Steel		74 3/4" Steel	74	2,009.55
X-trube	2945625	2693360	95		9/26/2019	68	3/4" Steel		68 3/4" Steel	68	2,920.77
X-trube	2951385	2693360	95		9/26/2019	37	3/4" Steel		37 3/4" Steel	40	1,840.50
X-trube	2943628	2693360	95		9/28/2019	78	3/4" Steel		78 3/4" Steel	89	5,379.73
X-trube	2947728	2693360	95		9/28/2019	34	3/4" Steel		34 3/4" Steel	34	1,988.49
X-trube	2946875	2693360	95		9/30/2019	77	3/4" Steel		77 3/4" Steel	73	2,518.69
X-trube	2945688	2693360	95		9/30/2019	79	3/4" Steel		79 3/4" Steel	79	3,120.20
X-trube	2945634	2693360	95		9/30/2019	65	1/2" Plastic		65 1/2" Plastic	65	2,879.10
X-trube	2946583	2693360	95		9/30/2019	69	3/4" Steel		69 3/4" Steel	72	3,079.23
X-trube	2945822	2693360	95		10/2/2019	10	1" and smaller		70 3/4" Steel	70	2,904.92
X-trube	2946686	2693360	95		10/2/2019	64	3/4" Steel		64 3/4" Steel	68	2,967.47
X-trube	2944827	2693360	89		10/3/2019	89	3/4" Steel		89 3/4" Steel	96	3,285.92
X-trube	2947727	2693360	95		10/4/2019	73	3/4" Steel		73 3/4" Steel	73	2,873.71
X-trube	2947703	2693360	95		10/4/2019	82	3/4" Steel		82 3/4" Steel	90	3,270.82
X-trube	2948368	2693360	95		10/4/2019	81	3/4" Steel		81 3/4" Steel	88	2,280.90
X-trube	2965901	2693360	89		10/4/2019	77	5/8" Copper		77 5/8" Copper	78	3,543.00
X-trube	2948290	2693360	95		10/7/2019	58	3/4" Steel		58 3/4" Steel	58	2,837.31
X-trube	2945680	2693360	95		10/7/2019	69	3/4" Steel		69 3/4" Steel	69	3,102.51
X-trube	2946574	2693360	95		10/7/2019	46	3/4" Steel		46 3/4" Steel	46	1,941.52
X-trube	2947432	2693360	95		10/7/2019	72	3/4" Steel		72 3/4" Steel	72	2,588.70
X-trube	2945748	2693360	95		10/7/2019	65	1/2" Plastic		65 1/2" Plastic	65	2,889.38
X-trube	2945347	2693360	95		10/7/2019	76	3/4" Steel		76 3/4" Steel	83	3,066.00
X-trube	2961287	2693360	97		10/8/2019	52	1" and smaller		52 3/4" Steel	52	1,406.06
X-trube	2961205	2693360	95		10/8/2019	67	1/2" Plastic		67 1/2" Plastic	80	1,608.17
X-trube	2968988	2693360	95		10/8/2019	93	1/2" Plastic		93 1/2" Plastic	288	2,759.81
X-trube	2961179	2693360	95		10/8/2019	58	1/2" Plastic		58 1/2" Plastic	140	1,513.05
X-trube	2945756	2693360	95		10/8/2019	10	1" and smaller		52 1/2" Plastic	52	2,732.52
X-trube	2945825	2693360	95		10/8/2019	46	3/4" Steel		46 3/4" Steel	48	2,289.30
X-trube	2945826	2693360	95		10/9/2019	35	3/4" Steel		35 3/4" Steel	35	2,516.41
X-trube	2945754	2693360	95		10/9/2019	36	1/2" Plastic		36 1/2" Plastic	81	888.16
X-trube	2945752	2693360	95		10/9/2019	10	1" and smaller		17 3/4" Steel	36	2,448.37
X-trube	2947398	2693360	95		10/9/2019	10	1" and smaller		17 3/4" Steel	17	2,163.30
X-trube	2946567	2693360	95		10/9/2019	112	3/4" Steel		112 3/4" Steel	112	3,525.10
X-trube	2947392	2693360	95		10/9/2019	20	3/4" Steel		20 3/4" Steel	19	2,115.77
X-trube	2947700	2693360	95		10/11/2019	56	3/4" Steel		56 3/4" Steel	56	2,785.51
X-trube	2947723	2693360	95		10/11/2019	66	3/4" Steel		66 3/4" Steel	66	2,357.25
X-trube	2947732	2693360	95		10/11/2019	84	3/4" Steel		84 3/4" Steel	84	3,453.12
X-trube	2947730	2693360	95		10/11/2019	95	3/4" Steel		95 3/4" Steel	95	3,735.72
X-trube	2956827	2693360	95		10/12/2019	70	3/4" Steel		70 3/4" Steel	35	2,105.88
X-trube	2943611	2693360	95		10/12/2019	10	1" and smaller		75 1/2" Plastic	75	2,574.51
X-trube	2969607	2693360	95		10/14/2019	117	3/4" Steel		117 3/4" Steel	117	3,646.96
X-trube	2947731	2693360	95		10/14/2019	83	3/4" Steel		83 3/4" Steel	20	2,899.01
X-trube	2948326	2693360	95		10/14/2019	76	3/4" Steel		76 3/4" Steel	146	4,157.47
X-trube	2947641	2693360	95		10/15/2019	72	3/4" Steel		72 3/4" Steel	1	3,139.03
X-trube	2945628	2693360	95		10/15/2019	29	3/4" Steel		29 3/4" Steel	29	2,440.03

. . . PRIVATE DATA ENDS]

PUBLIC DOCUMENT - PRIVATE DATA ON INDIVIDUALS HAS BEEN EXCISED

2019 Obsolete Materials Replacement Projects

Page 21 of 21

[PRIVATE DATA BEGINS . . .

Type	WR #	Related WR	Op District	ProjectName	Const Complete Date	Month	Size Installed	Total Footage Installed	Size & Type Retired	Total Footage Retired	Service Installation Cost
X-trube	2947729	2693360	95		10/15/2019	10	1" and smaller	118	3/4" Steel	133	\$ 2,517.58
X-trube	2947370	2693360	95		10/17/2019	10	1" and smaller	59	1/2" Plastic	59	\$ 1,937.19
X-trube	2945747	2693360	95		10/17/2019	10	1" and smaller	72	1/2" Plastic	72	\$ 3,096.14
X-trube	2948369	2693360	95		10/17/2019	10	1" and smaller	58	3/4" Steel	58	\$ 2,160.94
X-trube	2946873	2693360	95		10/17/2019	10	1" and smaller	99	3/4" Steel	106	\$ 2,935.09
X-trube	2946832	2693360	95		10/17/2019	10	1" and smaller	17	3/4" Steel	17	\$ 1,895.39
X-trube	2945814	2693360	95		10/18/2019	10	1" and smaller	30	3/4" Steel	39	\$ 2,467.97
X-trube	2945694	2693360	95		10/18/2019	10	1" and smaller	67	1/2" Plastic	67	\$ 2,792.67
X-trube	2946831	2693360	95		10/18/2019	10	1" and smaller	75	3/4" Steel	80	\$ 2,049.00
X-trube	2948370	2693360	95		10/18/2019	10	1" and smaller	50	3/4" Steel	50	\$ 2,441.74
X-trube	2947726	2693360	95		10/19/2019	10	1" and smaller	61	3/4" Steel	61	\$ 2,836.77
X-trube	2945749	2693360	95		10/22/2019	10	1" and smaller	72	1/2" Plastic	72	\$ 2,184.61
X-trube	2945755	2693360	95		10/22/2019	10	1" and smaller	54	1/2" Plastic	54	\$ 2,653.08
X-trube	2947399	2693360	95		10/22/2019	10	1" and smaller	21	3/4" Steel	21	\$ 1,840.78
X-trube	2944890	2693360	95		10/23/2019	10	1" and smaller	84	3/4" Steel	84	\$ 2,268.58
X-trube	2945753	2693360	95		10/23/2019	10	1" and smaller	82	1/2" Plastic	85	\$ 2,359.92
X-trube	2945824	2693360	95		10/23/2019	10	1" and smaller	86	3/4" Steel	86	\$ 3,667.53
X-trube	2945757	2693360	95		10/24/2019	10	1" and smaller	77	1/2" Plastic	82	\$ 3,271.95
X-trube	2947655	2693360	95		10/25/2019	10	1" and smaller	57	3/4" Steel	214	\$ 1,799.24
X-trube	2947666	2693360	95		10/25/2019	10	1" and smaller	34	3/4" Steel	53	\$ 1,864.25
X-trube	2986350	2693360	95		10/25/2019	10	1" and smaller	52	1/2" Plastic	52	\$ 3,083.38
X-trube	2927069	2693360	95		10/28/2019	10	1" and smaller	52	1/2" Plastic	55	\$ 3,035.60
X-trube	2947697	2693360	95		10/28/2019	10	1" and smaller	82	3/4" Steel	82	\$ 3,164.34
X-trube	2948371	2693360	95		10/28/2019	10	1" and smaller	53	3/4" Steel	53	\$ 2,052.30
X-trube	2960609	2956841	95		10/28/2019	10	1" and smaller	110	1/2" Plastic	88	\$ 1,534.14
X-trube	2654958	2693360	89		10/30/2019	10	-	None	-	\$ 267.90	
X-trube	2987663	2693360	95		11/21/2019	11	1" and smaller	70	3/4" Steel	70	\$ 2,228.79
Total								52,837		\$	1,722,111.70

. . . PRIVATE DATA ENDS]

Exhibit K

Maps of Planned Aldyl-A Main Replacements (2021)

PUBLIC DOCUMENT – TRADE SECRET DATA HAS BEEN EXCISED

Attachment K has been designated as non-public in its entirety, as it contains information MERC considers to be Trade Secret as defined by Minn. Stat. § 13.37, subd. 1(b). The information is not generally known to, and not readily ascertainable by, vendors and competitors of MERC, who could obtain economic value from its disclosure. MERC maintains this information as trade secret.

Exhibit L

Project Schedule for Obsolete Material Replacements (2021)

ID	Task Name	Resource Names	Duration	Start	Finish	% Complete	July	October	January	April	July	October	January	April	July	October	January
0	GUIC - Obsolete Mat.		478 days	Wed 1/1/20	Mon 11/1/21	9%	GUIC - Obsolete Mat.										
1	Project Scope Determined	Engineering	2 mons	Wed 1/1/20	Tue 2/25/20	100%											
2	Preliminary Design	Engineering	1 mon	Wed 2/26/20	Tue 3/24/20	100%											
3	Design		85 days	Fri 1/15/21	Thu 5/13/21	0%											
4	Final Designs	Designers	1 mon	Fri 1/15/21	Thu 2/11/21	0%											
5	Permitting (when required)	Designers,Engineers	3 mons	Fri 2/12/21	Thu 5/6/21	0%											
6	Land Acquisition (when required)	Real Estate	4 mons	Fri 1/15/21	Thu 5/6/21	0%											
7	Competitively Bid	Supply chain	2 mons	Fri 2/12/21	Thu 4/8/21	0%											
8	Release Work to Contractors	Designers	1 wk	Fri 5/7/21	Thu 5/13/21	0%											
9	Construction		102 days	Fri 5/14/21	Mon 10/4/21	0%											
10	AA Replacement - Pine City	Construction Contractor	15 wks	Tue 6/1/21	Mon 9/13/21	0%											
11	AA Replacement - Rochester	Construction Contractor	10 wks	Fri 5/14/21	Thu 7/22/21	0%											
12	AA Replacement - Caledonia	Construction Contractor	5 wks	Thu 7/1/21	Wed 8/4/21	0%											
13	AA Replacement - Crosby	Construction Contractor	20 wks	Fri 5/14/21	Thu 9/30/21	0%											
14	AA Replacement - Buhl	Construction Contractor	12 wks	Tue 6/15/21	Mon 9/6/21	0%											
15	AA Replacement - Grand Rapids	Construction Contractor	4 wks	Tue 9/7/21	Mon 10/4/21	0%											
16	X-trube Replacements (Various)	Construction Contractor	4 wks	Thu 8/5/21	Wed 9/1/21	0%											
17	Stop Valve Replacements (Various)	Construction Contractor	16 wks	Fri 5/14/21	Thu 9/2/21	0%											
18	Project Complete		0 days	Mon 11/1/21	Mon 11/1/21	0%											

Project: GUIC - Obsolete Mat.
Date: Wed 3/11/20

Task

Split

Milestone

Summary

Project Summary

Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary

Start-only

Finish-only

External Tasks

External Milestone

Deadline

Progress

Manual Progress

Slack

Summary Progress

**In the Matter of the Petition of Minnesota
Energy Resources Corporation for Approval
of a Gas Utility Infrastructure Cost Rider
True-Up Report for 2019, Revenue
Requirements for 2021, and Revised
Surcharge Factors**

Docket No. G011/M-20-____

CERTIFICATE OF SERVICE

I, Kristin M. Stastny, hereby certify that on the 1st day of April, 2020, on behalf of Minnesota Energy Resources Corporation (MERC) I electronically filed a true and correct copy of the enclosed Petition on www.edockets.state.mn.us. Said documents were also served via U.S. mail and electronic service as designated on the attached service list.

Dated this 1st day of April, 2020.

/s/ Kristin M. Stastny

Kristin M. Stastny

[illegible]

First Name	Last Name	Email	Company Name	Address	Delivery Method	View Trade Secret	Service List Name
Colleen	Sipiorski	Colleen.Sipiorski@wecenergygroup.com	Minnesota Energy Resources Corporation	700 North Adams St Green Bay, WI 54307	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation_General Service List
Kristin	Stastny	kstastny@taftlaw.com	Taft Stettinius & Hollister LLP	2200 IDS Center 80 South 8th St Minneapolis, MN 55402	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation_General Service List
Eric	Swanson	eswanson@winthrop.com	Winthrop & Weinstine	225 S 6th St Ste 3500 Capella Tower Minneapolis, MN 554024629	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation_General Service List
Mary	Wolter	mary.wolter@wecenergygroup.com	Minnesota Energy Resources Corporation (HOLDING)	231 West Michigan St Milwaukee, WI 53203	Electronic Service	No	GEN_SL_Minnesota Energy Resources Corporation_General Service List