

**MEETING**  
**Board of Water Works Trustees**  
Des Moines Water Works  
November 22, 2022  
2201 George Flagg Parkway  
3:30 p.m.

Join Zoom Meeting  
<https://us02web.zoom.us/j/85923755766?pwd=L1pVc3cyT0liLzBRUXhNR0d6QnhzUT09>

Meeting ID: 859 2375 5766      Passcode: 209742

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**Decision Agenda**

***I. Consent Agenda:***

- A. Minutes, October 25, 2022, Board of Water Works Trustees Meeting  
Minutes, November 1, 2022, Planning Committee Meeting  
Minutes, November 8, 2022, Finance and Audit Committee Meeting
- B. Financial Statements
- C. List of Payments for October 2022
- D. Summary of CEO-Approved Expenditures in Excess of \$20,000
- E. Next Meeting Date – December 20, 2022

***II. Public Comment Period:***

- Regional Governance

***III. Action Items:***

- A. Proposed 2023 Budget
  - 1. Public Hearing
  - 2. Discussion
  - 3. Action on Proposed Budget
- B. 2023 Water Treatment Chemicals
  - 1. Analysis of Bids
  - 2. Award of Contracts
- C. Des Moines Water Works' Rules and Regulations Update

- D. Request Authorization for CEO and General Manager to Execute Professional Services Agreement for Saylorville Water Treatment Plant Transmission Improvement Design and Construction Services
- E. Request Authorization to Reimburse Polk County for Water Main Relocations for the NE Broadway Avenue from IA Hwy 415 to US Hwy 6 Project
- F. Proposed 2023 Schedule for Board of Water Works Trustees Meetings and Committee Meetings
- G. Authorize CEO and General Manager to Execute Acceptance of Rezoning Ordinance for the Grounds Maintenance Facility Property and Waiver of Reading Requirement

**IV. Information Items:**

- A. Board Committee Reports
  - Planning Committee
  - Finance and Audit Committee
  - Stowe Foundation
  - Greater Des Moines Botanical Garden Board
  - Des Moines Water Works Park Foundation Board
- B. CEO and General Manager’s Comments
- C. Contract Status and Professional Services Agreements

<b>OSHA Recordable Injuries YTD: 12</b>	
Strain/Sprain:	8
Laceration:	1
Hearing:	2
Burn:	1

**V. Adjournment**

Schedule of Board Activities – December Time: 3:30 p.m.		
<u>Date</u>	<u>Location</u>	<u>Meeting</u>
December 6	Board Room & Virtual	Planning Committee Meeting
December 13	Board Room	Special Board Meeting
December 20	Board Room & Virtual	Board of Water Works Trustees



**DES MOINES WATER WORKS**  
**Board of Water Works Trustees**

Agenda Item No. Consent  
 Meeting Date: November 22, 2022  
 Chairperson's Signature  Yes  No

**AGENDA ITEM FORM**

**SUBJECT: Consent Agenda**

**SUMMARY:**

- A. Minutes, October 25, 2022, Board of Water Works Trustees Meeting  
**Request:** Approve October 25, 2022, Minutes  
 Minutes, November 1, 2022, Planning Committee Meeting  
**Request:** Approve November 1, 2022, Minutes  
 Minutes, November 8, 2022, Finance and Audit Committee Meeting  
**Request:** Approve November 8, 2022, Minutes
- B. Financial Statements
  - At October 2022, total assets of the Des Moines Water Works were \$460.3 million, liabilities totaled \$29.6 million, deferred outflows totaled \$5.1 million, deferred inflows totaled \$19.8 million and contributions and retained earnings were \$416.0 million.
  - Total operating revenue for the month of October was \$7.5 million. Expenses (operating and non-operating) for the month were approximately \$4.7 million, leaving net earnings of approximately \$2.8 million.
  - **Request:** Receive and File for Audit the October 2022 Financial Statements.
- C. List of Payments for October 2022  
**Request:** Approve October 2022 payments
- D. Summary of CEO-approved expenditures in excess of \$20,000  
**Request:** Approve the CEO-approved expenditures in excess of \$20,000
- E. Next Meeting Date – December 20, 2022  
**Request:** Approve December 20, 2022, as the date of the next meeting of the Board of Water Works Trustees.

**FISCAL IMPACT:**

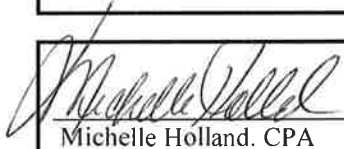


No impact to budget.

**RECOMMENDED ACTION:**

Approve Consent Agenda Items A, B, C, D, and E.

**BOARD REQUIRED ACTION:**

Motion to approve Consent Agenda.

 Michelle Holland, CPA Controller	 Amy Kahler, CPA Chief Financial Officer	 Ted Corrigan, P.E. CEO and General Manager
11/15/22 (date)	11/16/22 (date)	11/18/22 (date)

Attachments: October 25, 2022, Board of Water Works Trustees Meeting Minutes; November 1, 2022, Planning Committee Meeting Minutes, November 8, 2022, Finance and Audit Committee Meeting Minutes; October 2022 Financial Statements; List of Payments; Summary of CEO-approved expenditures in excess of \$20,000

**MINUTES OF CALLED MEETING OF THE BOARD OF WATER WORKS TRUSTEES  
PURSUANT TO NOTICE  
Tuesday, October 25, 2022**

Present (or Participating by Video or Audio Conference Link):

Board Members: Chairperson Mr. Graham Gillette, presiding; Mr. Joel Aschbrenner, Ms. Andrea Boulton, Ms. Susan Huppert, and Ms. Diane Munns

Staff members: Bill Blubaugh, Pat Bruner, Nathan Casey, Ted Corrigan, Kyle Danley, Doug Garnett, Donna Heckman, Michelle Holland, Amy Kahler, Mike McCurnin, Laura Sarcone, Jennifer Terry, Lindsey Wanderscheid, and Michelle Watson

Also in attendance: Jack Carra (AssuredPartners), Sam Carrell (DMWW Park Foundation), Alec Davis (incoming Board member), and Rick Malm (legal counsel)

Mr. Gillette called the meeting to order at 3:30 p.m.

Consent Agenda

A motion was made by Mr. Aschbrenner, seconded by Ms. Huppert, to approve Consent Items A, B, C, D, and E, (Approval of Minutes, September 27, 2022, Board of Water Works Trustees Meeting; Minutes, October 11, 2022, Finance and Audit Committee Meeting; Minutes; Receipt and filing of the financial statements for audit purposes; Approval of Payments for September 2022; Approval of Summary of CEO-Approved Expenditures in Excess of \$20,000; and Approval of November 22, 2022, as the next meeting of the Board of Water Works Trustees). Upon vote, the motion was adopted, with Mr. Aschbrenner, Mr. Gillette, Ms. Huppert, and Ms. Munns voting in favor of the motion.

Ms. Boulton joined the meeting in progress at 3:34 p.m.

Public Comment Period

Mr. Corrigan provided an update on regionalization.

Sam Carrell presented an appreciation gift to Joel Aschbrenner for his service to the DMWW Park Foundation.

2023 Corporate Insurance

Proposed 2023 insurance coverages and premiums were presented. As proposed, DMWW's corporate insurance renewal rates for 2023 will increase from \$1,234,391 (for 2022) to \$1,245,676.

A motion was made by Ms. Boulton, seconded by Mr. Aschbrenner to accept insurance program renewal submitted by AssuredPartners as presented. Upon vote, the motion was adopted, with each member of the Board voting in favor of the motion.

Receive and File Cost of Service Report

At the recommendation of Raftelis, DMWW has been using a forward-looking revenue requirements Cost of Service model. Staff has input the proposed 2023 budget into the Raftelis Cost of Service model. The result of that analysis is the basis for the 2023 rate setting discussions and was the basis for rates presented at the October 2022 Finance & Audit Committee Meeting.

Staff has prepared an executive summary report of the cost of service results using the 2023 budget numbers. Figure 14 summarizes the cost of service (budget) and anticipated revenues (rates) by service area. The Raftelis model assigns the costs attributable to peaking based on the demands each customer places on the system and calculates costs for wholesale customers as a class, as well as by individual wholesale customer. While we use actual peaking data for each wholesale customer, the model uses a calculated peak day to allocate costs to the retail and full service customer classes.

**Figure 14: Cost of Service Results**

<u>Customer</u>	<u>Cost of Service</u>	<u>4/1 Proposed Rate Increase</u>	<u>2023 Projected Revenue</u>	<u>COS Recovery</u>
<b>Retail</b>				
Des Moines Inside City	\$ 37,515,556	5.50%	\$ 36,647,682	98%
Des Moines Outside City	2,398,116	10.00%	1,182,233	49%
<b>Total: Retail</b>	<b>\$ 39,913,672</b>		<b>\$ 37,829,915</b>	<b>95%</b>
<b>Full Service</b>				
Polk County	\$ 6,513,209	5.50%	\$ 7,151,909	110%
Runnells	164,993	5.50%	167,950	102%
Cumming	127,141	5.50%	122,016	96%
Alleman	102,580	5.50%	120,461	117%
Pleasant Hill Inside City	2,818,471	5.50%	3,045,282	108%
Pleasant Hill Outside City	5,084	5.50%	4,768	94%
PCRWD	172,691	5.50%	149,947	87%
Berwick	242,944	8.00%	169,461	70%
Windsor Heights	910,672	5.50%	1,038,304	114%
Less: Future FS Capital Costs	(2,087,360.00)			
<b>Total: Full Service</b>	<b>\$ 8,970,425</b>		<b>\$ 11,970,098</b>	<b>133%</b>
<b>Wholesale - PC</b>				
Altoona	\$ 79,973	10.00%	\$ 31,618	40%
Ankeny	5,807,637	10.00%	6,760,709	116%
Bondurant	557,414	10.00%	605,983	109%
Clive	2,467,850	10.00%	2,218,441	90%
Norwalk	1,204,089	10.00%	1,080,239	90%
Waukee	2,247,423	10.00%	2,039,276	91%
Urbandale	6,075,208	10.00%	5,285,263	87%
Warren Rural Water	1,849,658	10.00%	1,997,122	108%
West Des Moines	3,872,869	10.00%	2,977,241	77%
Xenia	1,999,311	10.00%	2,286,946	114%
Polk City	457,388	10.00%	353,057	77%
<b>Total: Wholesale - PC</b>	<b>\$ 26,618,820</b>		<b>\$ 25,635,895</b>	<b>96%</b>
<b>Wholesale with Storage</b>				
West Des Moines - Storage	\$ 131,984	0.00%	\$ 43,488	33%
Johnston	3,366,981	0.00%	3,507,914	104%
Water Development Co	57,913	0.00%	72,485	125%
<b>Total: Wholesale with Storage</b>	<b>\$ 3,556,878</b>		<b>\$ 3,623,887</b>	<b>102%</b>
<b>Total: Utility</b>	<b>\$ 79,059,795</b>		<b>\$ 79,059,795</b>	<b>100%</b>

Staff will distribute the cost of service report to wholesale and Total Service customers once accepted by the Board of Trustees.

A motion was made by Ms. Munns, and seconded by Ms. Huppert, to receive and file the Cost of Service Study. Upon vote, the motion was adopted, with each member of the Board voting in favor of the motion.

#### Approval of Proposed 2023 Water Rates

Proposed 2023 water rates were discussed at the October Finance and Audit Committee meeting

#### *Retail Rates*

Staff recommends a 5.5% rate increase for Des Moines and most other retail customers, with a few exceptions as detailed in the board materials. Based on Cost of Service cost recovery percentages, staff recommends a 10% increase for Des Moines Outside City customers, and an 8% increase for customers in the Berwick service area.

Staff recommends no increases in capital improvement fees or water availability charges for 2023.

#### *Wholesale Rates*

Staff recommends maintaining the current rate structure for 2023 wholesale rates. In light of Cost of Service results also discussed at Finance & Audit, staff recommends a 10% increase in the wholesale Purchased Capacity rate, and a 0% increase in the wholesale With Storage rate. Rates for all customer classes have significantly improved in their alignment with costs since 2020, when DMWW began a 3-year phase in of rate adjustments to more closely align revenues with the costs to serve each customer class.

Water rates and capital improvement fees by customer class are summarized in the attachment. Water availability charges by service territory and meter size are also summarized. Proposed rates will take effect April 1, 2023.

A motion was made by Ms. Boulton, seconded by Mr. Aschbrenner to approve the proposed rates as presented to be effective for all water bills issued on or after April 1, 2022, and to direct staff to publish the adopted rates as provided by law as follows:

	2022 Rate Per 1,000 Gallons	2023 Rate Per 1,000 Gallons	Increase	Percent Increase	Dollar Monthly Increase for Avg. Home With:	
					2 Person 3,750 gal	4 Person 7,500 gal
<b>Des Moines Inside City</b>						
Residential (Step 1)	\$5.35	\$5.64	\$0.29	5.50%	\$1.09	\$2.18
Commercial (Step 2)	3.59	3.79	0.20	5.50%		
Industrial (Step 3)	2.76	2.91	0.15	5.50%		
<b>Capital Improvement Fee</b>						
Step 1	\$0.25	\$0.25	\$0.00	0.00%	\$0.00	\$0.00
Step 2	0.17	0.17	0.00	0.00%		
Step 3	0.13	0.13	0.00	0.00%		
<b>Des Moines Outside City</b>						
Residential (Step 1)	\$6.20	\$6.82	\$0.62	10.00%	\$2.33	\$4.65
Commercial (Step 2)	4.66	5.13	0.47	10.00%		
Industrial (Step 3)	3.33	3.66	0.33	10.00%		
Off Peak	2.75	3.03	0.28	10.00%		
<b>Polk County</b>						
Residential (Step 1)	\$10.54	\$11.12	\$0.58	5.50%	\$2.18	\$4.35
Commercial (Step 2)	6.45	6.80	0.35	5.50%		
Industrial (Step 3)	5.03	5.31	0.28	5.50%		
<b>Capital Improvement Fee</b>						
Step 1	\$1.50	\$1.50	\$0.00	0.00%	\$0.00	\$0.00
Step 2	0.92	0.92	0.00	0.00%		
Step 3	0.71	0.71	0.00	0.00%		
<b>Pleasant Hill</b>						
Residential (Step 1)	\$9.80	\$10.34	\$0.54	5.50%	\$2.03	\$4.05
Commercial (Step 2)	8.27	8.72	0.45	5.50%		
Outside City	16.80	17.72	0.92	5.50%	\$3.45	\$6.90
<b>Windsor Heights</b>						
Capital Improvement Fee	\$5.45	\$5.75	\$0.30	5.50%	\$1.13	\$2.25
<b>PCRWD #1</b>						
	\$5.14	\$5.42	\$0.28	5.50%	\$1.05	\$2.10
<b>Berwick</b>						
	\$4.28	\$4.62	\$0.34	8.00%	\$1.28	\$2.55
<b>Runnells</b>						
Water	\$8.86	\$9.35	\$0.49	5.50%	\$1.84	\$3.68
Waste Water	9.61	10.14	0.53	5.50%	\$1.99	\$3.98
<b>Cumming</b>						
	\$9.14	\$9.64	\$0.50	5.50%	\$1.88	\$3.75
<b>Alleman</b>						
	\$10.85	\$11.45	\$0.60	5.50%	\$2.25	\$4.50
<b>Wholesale</b>						
Purchased Capacity	\$3.08	\$3.39	\$0.31	10.00%		
With Storage	\$4.57	\$4.57	\$0.00	0.00%		

Upon vote, the motion was adopted, with each member of the Board voting in favor of the motion.

### Proposed 2023 Budget – Establish Public Hearing as the Date of the November 2022 Board Meeting

The Board conducts a public hearing on its annual budget each year before considering its adoption. A motion was made by Ms. Munns, seconded by Mr. Aschbrenner, to establish the date of a Public Hearing on the Proposed 2023 Budget as the date of the November 2022 Board meeting and to direct staff to publish notice of such public hearing as set forth in the Des Moines Water Works Board Policy Manual. Upon vote, the motion was adopted, with each member of the Board voting in favor of the motion.

### Berwick Water Association 28E Total Service Agreement

Des Moines Water Works has provided Total Service to Berwick Water Association under contract since October 1, 2013. The extended 2017 Agreement expired June 30, 2022, and both parties wish to continue the Total Service relationship under a renewed 28E Total Service Agreement. This renewed agreement is consistent with the previous agreement in all material respects, and continues for a period of five years. The Agreement shall renew, on and after December 31, 2027 for successive five year terms without further action by Association or Des Moines Water Works, unless either party notifies other of nonrenewal. The agreement may be terminated without cause by either party if written notice is given at least one year prior to the effective date of termination.

The Berwick Water Association Board of Trustees approved the 28E Agreement at a meeting October 17, 2022. Legal Counsel has reviewed the agreement.

A motion was made by Mr. Aschbrenner, and seconded by Ms. Huppert, to approve and authorize the Chairperson and CEO and General Manager to execute the Total Service Chapter 28E agreement with Berwick Water Association. Upon vote, the motion was adopted, with each member of the Board voting in favor of the motion.

### 2023 Water Treatment Chemicals – Lime Contract

Every year Des Moines Water Works rebids chemicals used in the water treatment process. After discussions with lime suppliers, it was decided to bid the lime contract early this year. For 2023 we received three bids for Quick Pebble Lime. The 2022 cost was \$184.50 per ton Mississippi lime. The 2023 cost is \$215.50 per ton Mississippi Lime. This is a percent increase of 16.8%. Estimated total cost for both plants in 2023 \$3,407,486.

Each year staff contracts with Kemecto Labs, an independent lab, for testing of lime samples. The lab testing is then used to analyze the bid prices along lime reactivity to compare different volumes of water to be treated at each plant, the purity of different products, and the cost to remove inert materials from each specific lime vendor. This analysis provides us with a more precise cost comparison based on how much lime will be needed and how much additional inert material will need to be removed.

A motion was made by Ms. Munns, and seconded by Ms. Huppert to award the 2023 Lime Contract to Mississippi Lime. Upon vote, the motion was adopted, with each member of the Board, who is identified above as present, voting in favor of the motion.



Acceptance of Des Moines River Intake Roof Structure Modifications Contract

Mr. Corrigan reported that all work associated with the Des Moines River Intake Roof Structure Modifications project has been satisfactorily completed.

A motion was made by Mr. Aschbrenner, and seconded by Ms. Huppert, to accept the Des Moines River Intake Roof Structure Modifications Contract, completed by Henkel Construction, in the amount of \$311,000. Upon vote, the motion was adopted, with each member of the Board voting in favor of the motion.

Request Authorization for CEO and General Manager to Execute Change Orders 4 and 5 to 2021 Well Rehabilitation Contract

On July 27, 2021, the Board of Water Works Trustees awarded the 2021 Well Rehabilitation contract to Layne Christensen Company. Staff has determined there would be operational advantages to have Layne Christensen Company rehabilitate Well 1 at the Saylorville well field in January 2023 and defer rehabilitation of Well 6 at Maffitt Reservoir until Fall 2023.

This will require execution of two change orders to the 2021 Well Rehabilitation contract. Change Order No. 4 adds \$599,630 to the contract amount to add rehabilitation of Well 1 at the Saylorville well field to the contract. Change Order No. 5 adds \$123,495 to the contract amount by increasing Layne's unit prices on their Proposal by 15 percent (15%) for rehabilitation of Well 6 at the Maffitt Reservoir well field. These increases in the unit prices are due to increases in Layne's labor and material costs since their Proposal was submitted in July 2021.

A motion was made by Ms. Munns, and seconded by Mr. Aschbrenner, to authorize the CEO and General Manager to execute Change Order No. 4, in the amount of \$599,630, and Change Order No. 5, in the amount of \$123,495, to the 2021 Well Rehabilitation contract. Upon vote, the motion was adopted, with each member of the Board voting in favor of the motion.

Resolution of Appreciation for Departing Board of Water Works Trustee Joel Aschbrenner

Mr. Aschbrenner was recognized by a resolution of appreciation for his service as a Board of Water Works Trustee since February 2020 as follows:

Whereas, Joel Aschbrenner was appointed to the Board of Water Works Trustees in February 2020; and

Whereas, Mr. Aschbrenner's term as Board of Water Works Trustee will end with his resignation, effective October 26, 2022; and

Whereas, during his service on the Board, Mr. Aschbrenner provided thoughtful perspectives on all issues brought before the Board, joined with other Board members in support and promotion of regional governance of drinking water production, strongly supported ongoing water quality and environmental initiatives, represented the Board on the Des Moines Water Works Park Foundation Board, and consistently championed open, transparent public communication,

Now, Therefore, be it Resolved that the Board of Water Works Trustees of the City of Des Moines, Iowa, hereby acknowledges with sincere appreciation the contributions made by Joel Aschbrenner to Des Moines Water Works and the community he has served by entering this Resolution of Appreciation into the minutes of the Board.

A motion was made by Ms. Huppert, and seconded by Ms. Munns, to adopt the resolution as stated above. Upon vote, the motion was adopted, with Mr. Aschbrenner abstaining, but all other members of the Board who are identified above as present voting in favor.

### Board Committee Reports

The following reports were provided:

- Planning Committee – A meeting was not held in October.
- Finance and Audit Committee – A meeting was held on October 11, 2022, as reflected in the minutes thereof. Mr. Aschbrenner gave a brief summary of the meeting.
- Bill Stowe Memorial Committee (Stowe Foundation) – Mr. Gillette and Ms. Boulton shared that they are working on the next steps in the development of the educational and research hub concepts.
- Greater Des Moines Botanical Garden – Mr. Gillette reminded those in attendance of upcoming holiday events at the Botanical Garden.
- Des Moines Water Works Park Foundation Board – Ms. Boulton reported that the Foundation continues to work on the repayment of the Ruan Connector construction debt. Programming and planning of fundraising efforts continue to be a focus.

### CEO and General Manager's Comments

Mr. Corrigan shared that the water treatment chemical bids for 2023 came in high, as expected, but no bids were received for soda ash. The general office and call center hours will change to 8 a.m. to 4:30 p.m. effective December 1<sup>st</sup>. Mr. Corrigan also provided an update on the utility's Strategic Plan initiatives.

Adjournment – Meeting adjourned by unanimous consent.

4:54 p.m. adjourned

**MINUTES OF MEETING OF PLANNING COMMITTEE  
OF THE BOARD OF WATER WORKS TRUSTEES  
PURSUANT TO NOTICE**

Tuesday, November 1, 2022

3:30 p.m.

Present (or Participating by Video or Audio Conference Link):

Board Members: Ms. Andrea Boulton and Mr. Alec Davis

Staff Members: Rachel Brown, Pat Bruner, Nathan Casey, Kyle Danley, Doug Garnett, Amy Kahler, Mike McCurnin, Jenny Puffer, Laura Sarcone, and Jennifer Terry

Also in Attendance: Melissa Walker (MW Media Consultants, LLC)

Meeting called to order at 3:30 p.m.

1. DMWW Rules & Regulations Update

Ms. Puffer and Ms. Sarcone provided an overview of proposed changes and clarifications to the DMWW Water Service Rules and Regulations for 2023. Some of the more significant changes being proposed include: (1) editing tracer wire materials listed to those now being used on water main projects for Des Moines Water Works; (2) clarifying the proper way to decommission an irrigation system in a manner that does not create a potential future cross connection; (3) specifying that individual meters shall be installed in individual pits for manufactured home complexes; (4) requiring that if a meter pit is installed in the right of way, a traffic rated lid is required instead of a hatch; (5) clarifying that sewer deduct/water only meters connected to the same service line as the domestic meter shall be billed to the same account as the domestic meter; (6) editing the public records language to be consistent with the updates to the Iowa Code Chapter 22, per Iowa Senate File 2322, signed into law and in effect on July 1, 2022. In addition, fee schedules are proposed to be updated to reflect increases in labor and material costs based on the Engineering News Record Construction Cost Index for the month of August 2022. Staff proposes that these revisions, including the revised fees, become effective on January 1, 2023, after consideration and approval by the Board.

2. CEO and General Manager's Comments

Mr. Corrigan was not in attendance.

3. Public Comments - There were no comments from the public.

Meeting adjourned at 3:53 p.m.

**MINUTES OF MEETING OF FINANCE AND AUDIT COMMITTEE  
OF THE BOARD OF WATER WORKS TRUSTEES  
PURSUANT TO NOTICE**

Tuesday, November 8, 2022

3:30 p.m.

Present (or Participating by Video or Audio Conference Link):

Board Members: Mr. Alec Davis and Ms. Susan Huppert

Staff Members: Nathan Casey, Ted Corrigan, Kyle Danley, Doug Garnett, Michelle Holland, Amy Kahler, Mike McCurnin, Jenny Puffer, Laura Sarcone, Jennifer Terry, Lindsey Wanderscheid, and Michelle Watson

Also in attendance: Melissa Walker (MW Media Consultants, LLC)

Meeting called to order at 3:30 p.m.

1. Departmental Budget Overview  
Department Directors gave an overview of their respective departments' budgets, highlighting variances from 2022 to 2023.
2. CEO and General Manager's Comments  
Mr. Corrigan had no additional comments.
3. Public Comments – There were no comments from the public.

Meeting adjourned at 4:23 p.m.

**DES MOINES WATER WORKS  
FINANCIAL STATEMENT COMMENTS  
FOR THE MONTH ENDED October 31, 2022**

**STATEMENT OF NET POSITION**

Below are summaries of financial position and activity for the month of October 2022:

**Summary Net Position (in millions)**

	<b>Oct 31, 2022</b>	<b>Dec 31, 2021</b>
Cash	\$33.8	\$26.3
Invested Cash	13.1	5.0
Accounts Receivable	11.1	10.4
Operating Reserves	13.3	12.8
Revenue Bond Reserves	0.2	0.2
Other Assets	5.1	5.7
Fixed Assets	591.6	591.6
Less: Accumulated Depreciation	<u>(226.7)</u>	<u>(215.8)</u>
Net Fixed Assets	364.9	375.8
Construction in Progress	<u>18.8</u>	<u>7.9</u>
 Total Assets	 <u>460.3</u>	 <u>444.1</u>
 Deferred Outflows of Resources	 5.1	 5.1
 <b>Total Assets &amp; Deferred Outflows of Resources</b>	 <b><u>465.4</u></b>	 <b><u>449.3</u></b>
 Current Liabilities	 9.1	 12.2
Long-Term Liabilities	18.3	18.4
Other Liabilities	<u>2.1</u>	<u>2.0</u>
Total Liabilities	29.6	32.5
 Deferred Inflows of Resources	 19.8	 19.8
 Net Position	 <u>416.0</u>	 <u>396.9</u>
 <b>Total Liabilities, Deferred Inflows of Resources &amp; Net Position</b>	 <b><u>465.4</u></b>	 <b><u>449.3</u></b>

## STATEMENT OF EARNINGS

Summary information from the Statement of Earnings is as follows:

	October 2022	Year to date 2022	Year to date 2021
<b>Operating Revenue</b>	\$ 7.5 million	\$ 71.8 million	\$ 70.0 million
<b>Operating Expenses</b>	\$ 4.8 million	\$ 53.0 million	\$ 50.1 million
<b>Other Income (Expense)</b>	\$ 0.1 million	\$ 0.3 million	\$ 0.0 million
<b>Net Earnings</b>	\$ 2.8 million	\$ 19.1 million	\$ 19.9 million

The table below summarizes expenses for the period-to-date ended October 2022 and 2021:

### OPERATING EXPENSES

Year-to-Date Ending October 31, 2022 and 2021

	YTD Oct 2022	% of Total	YTD Oct 2021	% of Total
Labor	\$ 13,551,915	32%	\$ 13,522,055	34%
Benefits	7,500,770	18%	7,482,898	19%
Purchased Services	7,190,654	17%	6,549,264	17%
Materials and Equipment	3,403,837	8%	2,970,721	8%
Chemicals	5,460,593	13%	4,266,854	11%
Utilities/Telephone	2,924,201	7%	2,786,236	7%
Insurance	1,309,882	3%	1,159,659	3%
Postage	342,583	1%	332,367	1%
Other	402,255	1%	336,190	1%
	<b>\$ 42,086,690</b>	<b>100%</b>	<b>\$ 39,406,244</b>	<b>100%</b>

## CHANGES IN INVESTMENTS

	Change from Prior Month	Average Annual Return
Bond Reserves	\$60	
Operating Reserves	\$11,169	0.38%
Invested Operating Cash	\$15,768	1.08%

### Comments

Pension fund investments increased by \$1.1 million for the month of October 2022. The pension fund balance as of October 31, 2022, was \$49.9 million.

## PROJECT EXPENSES

Total expenditures for operating projects through October 2022 were approximately \$42.1 million or 79% of the operating budget. Overall expenditures on capital projects were approximately \$11.0 million or 19% of the capital budget.

**DES MOINES WATER WORKS**  
**Statement of Net Position**  
**For the Period Ending October 31, 2022 and December 31, 2021**

	2022	2021	Change
<b>ASSETS</b>			
<b>Cash</b>			
Petty Cash	\$ 1,900	\$ 1,900	
Interest Bearing Cash	33,806,670	26,324,418	
Total	<u>\$ 33,808,570</u>	<u>\$ 26,326,318</u>	\$ 7,482,252
<b>Invested Cash</b>			
<b>Operating</b>			
Cash on Hand	\$ 1,362,368	\$ 3,410,425	
U.S. Government Securities	11,692,948	1,590,900	
Total	<u>\$ 13,055,316</u>	<u>\$ 5,001,325</u>	\$ 8,053,991
<b>Accounts Receivable</b>			
Accounts Receivable	\$ 8,471,507	\$ 7,818,425	
Accounts Receivable Unbilled	2,613,898	2,613,898	
Accrued Interest Receivable	54,368	1,160	
Total	<u>\$ 11,139,773</u>	<u>\$ 10,433,483</u>	\$ 706,289
<b>Reserves (Invested)</b>			
<b>Operating</b>			
Cash On Hand	\$ 2,595,015	\$ 6,301,673	
U.S. Government Securities	10,752,571	6,485,090	
Total	<u>\$ 13,347,586</u>	<u>\$ 12,786,763</u>	\$ 560,823
<b>Revenue Bond Reserves (Invested)</b>			
Cash on Hand	\$ 158,962	\$ 214,239	
Total	<u>\$ 158,962</u>	<u>\$ 214,239</u>	\$ (55,277)
<b>Other Assets</b>			
Materials in Stock Accounts	\$ 4,723,603	\$ 4,130,745	
Water Receivable Long-Term	242,605	172,651	
Prepaid Insurance	4,395	1,036,273	
Prepaid Expense	307,681	341,629	
Accum Unrealized Gain/(Loss) Invest	(225,318)	(11,878)	
Total	<u>\$ 5,052,967</u>	<u>\$ 5,669,420</u>	\$ (616,452)

**DES MOINES WATER WORKS**  
**Statement of Net Position**  
**For the Period Ending October 31, 2022 and December 31, 2021**

	<b>2022</b>	<b>2021</b>	<b>Change</b>
<b>ASSETS-CONTINUED</b>			
<b>Fixed Assets</b>			
Land & Right of Way	\$ 8,208,369	\$ 8,208,369	
Structures and Machinery	169,105,964	169,105,964	
Water Supply System	60,344,512	60,344,512	
Urbandale Booster System	509,687	509,687	
Pipelines	283,161,165	283,161,165	
Meters	32,629,950	32,629,950	
Laboratory Equipment	805,473	805,473	
Distribution Equipment	1,466,215	1,466,215	
Mobile Equipment	4,046,016	4,046,016	
Vehicles	2,858,318	2,858,318	
Office Equipment	1,341,093	1,341,093	
MIS Equipment	27,096,288	27,096,288	
Total	\$ 591,573,051	\$ 591,573,051	
Accumulated Depreciation	(226,673,387)	(215,796,170)	
Construction in Progress	\$ 18,838,869	7,899,450	
Total Fixed Assets	\$ 383,738,532	\$ 383,676,331	\$ 62,202
<b>TOTAL ASSETS</b>	<b>\$ 460,301,707</b>	<b>\$ 444,107,879</b>	<b>\$ 16,193,828</b>
<b>DEFERRED OUTFLOWS OF RESOURCES</b>			
Pension Related Amounts	5,147,743	5,147,743	
Total	\$ 5,147,743	\$ 5,147,743	\$ -
<b>TOTAL ASSETS &amp; DEFERRED OUTFLOWS OF RESOURCES</b>	<b>\$ 465,449,450</b>	<b>\$ 449,255,622</b>	<b>\$ 16,193,828</b>



**DES MOINES WATER WORKS**  
**Statement of Net Position**  
**For the Period Ending October 31, 2022 and December 31, 2021**

	2022	2021	Change
<b>LIABILITIES</b>			
<b>Current Liabilities</b>			
Accounts Payable	\$ 374,159	\$ 1,888,374	
Construction Payables	1,865,172	4,253,313	
Salaries and Wages Payable	765,679	1,044,215	
Accrued Leave	3,786,499	3,786,499	
State Tax Payable	369,337	116,056	
Work Comp Reserves	118,803	118,803	
Revenue Bond Interest Payable	1,505	262	
Revenue Bonds Payable Current	157,000	157,000	
Fees Collected for Other Entities	1,692,967	791,484	
Unclaimed Refunds	8,691	10,178	
Total	<u>\$ 9,139,812</u>	<u>\$ 12,166,184</u>	\$ (3,026,372)
<b>Long Term Liabilities</b>			
Pension Liability	(171,117)	(171,117)	
Other Post-Employment Benefit Liability	18,494,555	18,494,555	
Other Non-Current Liabilities	294	32,859	
Total	<u>\$ 18,323,732</u>	<u>\$ 18,356,297</u>	\$ (32,565)
<b>Other Liabilities</b>			
Deposits by Consumers	\$ 2,017,185	\$ 1,921,275	
Project H2O	53,546	254	
Miscellaneous Liabilities	22,474	44,428	
Total	<u>\$ 2,093,206</u>	<u>\$ 1,965,957</u>	\$ 127,249
<b>TOTAL LIABILITIES</b>	<b>\$ 29,556,749</b>	<b>\$ 32,488,438</b>	<b>\$ (2,931,689)</b>
<b>DEFERRED INFLOWS OF RESOURCES</b>			
Pension Related Amounts	\$ 16,277,276	\$ 16,277,276	
Other Post-Employment Benefit Amounts	3,569,267	3,569,267	
Total	<u>\$ 19,846,543</u>	<u>\$ 19,846,543</u>	\$ -
<b>NET POSITION</b>	<b>\$ 416,046,158</b>	<b>\$ 396,920,642</b>	<b>\$ 19,125,516</b>
<b>TOTAL LIABILITIES, DEFERRED INFLOWS OF RESOURCES &amp; NET POSITION</b>	<b><u>\$ 465,449,450</u></b>	<b><u>\$ 449,255,622</u></b>	<b><u>\$ 16,193,827</u></b>

**Des Moines Water Works**  
**Statement of Earnings and Retained Earnings**  
**For the Month Ended October 31, 2022, the Ten Months Ending October 31, 2022**  
**and the Ten Months Ending October 31, 2021**

	Current Month 2022	Year-To-Date 2022	Yearly Budget 2022	Actual vs. Budget Variance	Year-To-Date 2021	Year-To-Date Current vs. Prior Year
<b>OPERATING REVENUE</b>						
Water Sales	\$ 6,627,466	\$ 66,918,444	\$ 73,094,345	\$ (6,175,901)	\$ 63,206,152	\$ 3,712,292
Sewer Services - Runnells	7,669	76,568	82,412	(5,844)	80,532	(3,964)
Late Fees	48,191	388,136	330,000	58,136	320,997	67,139
Billed Debt Service	-	-	-	-	1,995,508	(1,995,508)
Other Sales and Services	180,649	1,970,399	3,044,112	(1,073,713)	1,518,008	452,391
Billing Services Revenue	178,856	1,555,036	1,954,280	(399,244)	1,491,040	63,996
Land Use Revenue	15,477	178,112	172,800	5,312	156,463	21,649
Connection Fees	392,344	735,324	750,000	(14,676)	613,003	122,321
Purchase Capacity	-	-	-	-	602,150	(602,150)
Cash Discount and Refunds	435	3,395	-	3,395	2,317	1,078
Total Operating Revenues	\$ 7,451,087	\$ 71,825,414	\$ 79,427,949	\$ (7,602,535)	\$ 69,986,170	\$ 1,839,244
<b>OPERATING EXPENSES</b>						
Labor	\$ 1,266,922	\$ 13,551,915	\$ 17,064,713	\$ 3,512,798	\$ 13,522,055	\$ (29,860)
Benefits	329,040	3,316,426	4,179,900	863,474	3,279,268	(37,158)
Retirement Benefits	386,589	4,184,344	5,079,100	894,756	4,203,630	19,286
Postage	43,646	342,583	490,000	147,417	332,367	(10,216)
Telephone	23,422	235,003	307,500	72,497	217,476	(17,527)
Insurance	106,528	1,309,882	1,575,000	265,118	1,159,659	(150,223)
Casualty Loss	-	28,481	100,000	71,519	109,988	81,507
Loss on Bad Accounts	(1,493)	(8,517)	150,000	158,517	(17,918)	(9,401)
Purchased Services	329,342	7,190,654	11,040,604	3,849,950	6,549,264	(641,390)
Training	150	102,645	158,860	56,215	49,375	(53,270)
Materials and Equipment	413,535	3,403,837	3,901,960	498,123	2,970,721	(433,116)
Chemicals	439,799	5,460,593	5,769,749	309,156	4,266,854	(1,193,739)
Utilities	343,495	2,689,198	3,000,300	311,102	2,568,760	(120,438)
Gasoline/Fuel	26,469	279,646	228,660	(50,986)	194,745	(84,901)
Total Operating Expense	\$ 3,707,444	\$ 42,086,690	\$ 53,046,346	\$ 10,959,656	\$ 39,406,244	\$ (2,680,446)
Depreciation Expense	\$ 1,082,597	10,877,217	13,085,393	2,208,176	10,679,903	(197,314)
Net Income from Operations	2,661,046	18,861,507	13,296,210	5,565,296	19,900,023	(1,038,516)
<b>Other Income (Expense) :</b>						
Capital Contributions	\$ 101,718	\$ 263,557	\$ -	\$ 263,557	\$ 446,230	\$ (182,673)
Contributions From Subdividers	-	-	-	-	-	-
Investment Income	21,644	66,357	177,000	(110,643)	81,257	(14,900)
Net Change - Investment Values	23,179	(63,288)	-	(63,288)	(107,084)	43,796
Interest Expense / Amortization	(262)	(2,617)	(2,748)	131	(411,963)	409,346
Gain/Loss on Fixed Assets	-	-	-	-	-	-
Other Income/Expense	-	-	-	-	-	-
Other Income (Expense), net	\$ 146,279	\$ 264,009	\$ 174,252	\$ 89,757	\$ 8,440	\$ 255,569
Net Earnings	<u>\$ 2,807,325</u>	<u>\$ 19,125,516</u>	<u>\$ 13,470,463</u>	<u>\$ 5,655,053</u>	<u>\$ 19,908,463</u>	<u>\$ (782,947)</u>
Retained Earnings, January 1		<u>\$ 396,920,642</u>			<u>\$ 355,237,315</u>	
Ending Retained Earnings		<u>\$ 416,046,158</u>			<u>\$ 375,145,778</u>	

**DES MOINES WATER WORKS  
STATEMENT OF INVESTMENT CHANGES  
FOR THE MONTH ENDED OCTOBER 31, 2022**

**BOND RESERVES**

	Balance at 9/30/2022	Additions	Deductions	Balance at 10/31/2022
Cash on Hand	\$158,902	61	-	\$158,962
U.S. Government Securities	\$0	-	-	0
Total Bond Reserves	<u>\$158,902</u>	<u>\$61</u>	<u>\$0</u>	<u>\$158,962</u>

**INVESTED RESERVES**

	Balance at 9/30/2022	Additions	Deductions	Balance at 10/31/2022
<b>Operating</b>				
Cash on Hand	\$2,726,750	2,002,502	2,134,237	\$2,595,015
U.S. Government Securities	\$10,609,667	2,142,904	2,000,000	10,752,571
Total Invested Reserves	<u>\$13,336,417</u>	<u>\$4,145,406</u>	<u>\$4,134,237</u>	<u>\$13,347,586</u>

The average annual interest earned was 0.38%.

**INVESTED OPERATING CASH**

	Balance at 9/30/2022	Additions	Deductions	Balance at 10/31/2022
<b>Operating</b>				
Cash on Hand	\$1,360,486	2,691	809	\$1,362,368
U.S. Government Securities	\$11,679,062	13,886	-	11,692,948
Total Invested Reserves	<u>\$13,039,548</u>	<u>\$16,577</u>	<u>\$809</u>	<u>\$13,055,316</u>

The average annual interest earned was 1.08%.

**DES MOINES WATER WORKS  
STATEMENT OF INVESTMENT CHANGES  
YEAR TO DATE 2022**

**PENSION FUND**

	Balance 1/1/2022	Transfers, Expenses & Deposits	Benefit Payments	Investment Return	Balance at 10/31/2022	YTD % Return
<b>Fixed Income</b>						
Mellon Capital Mgmt - Bond Market Index	6,583,916	1,729,106	(3,100,937)	(883,918)	4,328,167	-15.25%
Neuberger Berman / Mellon / DDJ - High Yield I	2,532,418	(111,458)		(300,033)	2,120,927	-12.17%
Principal Global Investors - Income	21,540,862	(816,513)	4,907	(3,255,601)	17,473,656	-15.47%
<b>Large U.S. Equity</b>						
Principal Global Investors - Equity Income	7,381,045	64,356		(967,149)	6,478,253	-13.07%
Principal Global Investors - Large Cap S&P 500 Index	4,528,714	(926,659)		(811,200)	2,790,856	-20.31%
T. Rowe Price / Brown Advisory - Large Cap Growth	7,222,302	1,667,473		(2,364,955)	6,524,820	-28.91%
<b>Small/Mid U.S. Equity</b>						
Robert Baird / Eagle Asset Mgmt - Mid Cap Growth III	1,052,226	226,429		(263,136)	1,015,520	-22.31%
DFA / Vaughan Nelson / LA Capital - Small Cap Value II	530,679	7,688		(42,790)	495,577	-8.02%
AB / Brown / Emerald - Small Cap Growth I	506,694	128,488		(131,701)	503,481	-22.74%
LA Capital Mgmt / Victory - Mid Cap Value I	1,067,160	(13,842)		(78,073)	975,245	-7.39%
<b>International Equity</b>						
Causeway / Barrow Hanley - Overseas	2,352,617	(445,243)		(314,352)	1,593,022	-14.99%
Principal Global Investors / DFA - International Small Cap	1,075,686	(48,451)		(297,741)	729,494	-28.48%
Principal Global Investors - Diversified International	5,597,781	(430,434)		(1,399,682)	3,767,665	-26.22%
Origin Asset Management LLP - Origin Emerging Markets	1,891,501	(89,878)		(659,085)	1,142,538	-35.93%
<b>Total Principal Financial</b>	<b>\$ 63,863,603</b>	<b>\$ 941,063</b>	<b>\$ (3,096,030)</b>	<b>\$ (11,769,416)</b>	<b>\$ 49,939,220</b>	<b>-18.83%</b>

DES MOINES WATER WORKS  
Project Costs by Department - Summary  
Year to Date ended October 31, 2022  
83% of Year Completed

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
Operating	Office of the CEO/General Manager	\$1,244,697	\$1,646,636	\$0	\$1,646,636	\$401,939	76%
	Customer Service	\$3,776,758	\$4,934,341	\$0	\$4,934,341	\$1,157,583	77%
	Engineering	\$1,742,480	\$1,658,345	\$150,000	\$1,808,345	\$65,865	96%
	Finance	\$3,766,147	\$4,484,748	\$0	\$4,484,748	\$718,601	84%
	Human Resources	\$723,489	\$785,367	\$0	\$785,367	\$61,878	92%
	Information Technology	\$2,502,592	\$3,185,636	\$0	\$3,185,636	\$683,044	79%
	Office of the Chief Operating Officer	\$2,668,372	\$3,249,238	\$0	\$3,249,238	\$580,866	82%
	Water Distribution	\$7,373,025	\$9,114,805	\$0	\$9,114,805	\$1,741,780	81%
	Water Production	\$18,289,130	\$23,987,230	\$0	\$23,987,230	\$5,698,100	76%
	<b>Total Operating</b>	<b>\$42,086,690</b>	<b>\$53,046,346</b>	<b>\$150,000</b>	<b>\$53,196,346</b>	<b>\$11,109,656</b>	<b>79%</b>
Capital	Office of the CEO/General Manager	\$0	\$0	\$0	\$0	\$0	No Budget
	Customer Service	\$726,247	\$1,426,682	\$0	\$1,426,682	\$700,435	51%
	Engineering	\$8,618,123	\$39,830,333	\$12,234,830	\$52,065,163	\$43,447,040	17%
	Finance	\$0	\$0	\$0	\$0	\$0	No Budget
	Human Resources	\$0	\$0	\$0	\$0	\$0	No Budget
	Information Technology	\$234,648	\$1,385,761	\$0	\$1,385,761	\$1,151,113	17%
	Office of the Chief Operating Officer	\$13,685	\$34,000	\$0	\$34,000	\$20,315	40%
	Water Distribution	\$530,406	\$1,387,499	\$0	\$1,387,499	\$857,093	38%
	Water Production	\$886,790	\$1,867,936	\$800,000	\$2,667,936	\$1,781,146	33%
	<b>Total Capital</b>	<b>\$11,009,899</b>	<b>\$45,932,211</b>	<b>\$13,034,830</b>	<b>\$58,967,041</b>	<b>\$47,957,142</b>	<b>19%</b>
<b>Total Project Costs</b>		<b>\$53,096,589</b>	<b>\$98,978,557</b>	<b>\$13,184,830</b>	<b>\$112,163,387</b>	<b>\$59,066,798</b>	<b>47%</b>

DES MOINES WATER WORKS  
 Project Costs by Department - Summary  
 Year to Date ended October 31, 2022  
 83% of Year Completed

**Office of the CEO/General Manager**

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
Operating							
950-200	New Business, Community & Economic Dev	\$66,594	\$76,547	\$0	\$76,547	\$9,953	87%
996-001	CEO Department Administration	\$466,466	\$348,695	\$0	\$348,695	(\$117,771)	134%
996-030	Board Activities	\$238,505	\$706,915	\$0	\$706,915	\$468,410	34%
996-200	Business Strategies	\$161,231	\$177,925	\$0	\$177,925	\$16,694	91%
996-210	Project Management	\$121,285	\$36,837	\$0	\$36,837	(\$84,448)	329%
995-010	Public Policy - WS Advocate	\$190,615	\$299,717	\$0	\$299,717	\$109,102	64%
	<b>Total Operating</b>	<b>\$1,244,697</b>	<b>\$1,646,636</b>	<b>\$0</b>	<b>\$1,646,636</b>	<b>\$401,939</b>	<b>76%</b>
	OCEO Capital						
	<b>Total Capital</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>
	<b>Total Office of CEO/General Manager</b>	<b>\$1,244,697</b>	<b>\$1,646,636</b>	<b>\$0</b>	<b>\$1,646,636</b>	<b>\$401,939</b>	<b>76%</b>

DES MOINES WATER WORKS  
 Project Costs by Department - Summary  
 Year to Date ended October 31, 2022  
 83% of Year Completed

**Customer Service**

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
Operating							
950-001	Cust Svc Dept Administration	\$1,718,555	\$2,096,417	\$0	\$2,096,417	\$377,862	82%
950-100	Contact Center Operations	\$853,503	\$1,202,073	\$0	\$1,202,073	\$348,570	71%
950-300	Communications/PR	\$158,355	\$250,876	\$0	\$250,876	\$92,521	63%
950-600	Field Customer Service	\$1,046,345	\$1,384,975	\$0	\$1,384,975	\$338,630	76%
Total Operating		<u>\$3,776,758</u>	<u>\$4,934,341</u>	<u>\$0</u>	<u>\$4,934,341</u>	<u>\$1,157,583</u>	<u>77%</u>
Capital							
955-060	Field Cust Svc Capital	\$729,564	\$1,426,682	\$0	\$1,426,682	\$697,118	51%
955-100	Contact Center Capital	\$0	\$0	\$0	\$0	\$0	No Budget
925-160	Radio Frequency Project	(\$3,317)	\$0	\$0	\$0	\$3,317	No Budget
Total Capital		<u>\$726,247</u>	<u>\$1,426,682</u>	<u>\$0</u>	<u>\$1,426,682</u>	<u>\$700,435</u>	<u>51%</u>
Total Customer Service		<u>\$4,503,005</u>	<u>\$6,361,023</u>	<u>\$0</u>	<u>\$6,361,023</u>	<u>\$1,858,018</u>	<u>71%</u>

DES MOINES WATER WORKS  
 Project Costs by Department - Summary  
 Year to Date ended October 31, 2022  
 83% of Year Completed

**Engineering**

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
<b>Operating</b>							
940-001	Engineering Dept Administration	\$1,498,101	\$1,575,127	\$0	\$1,575,127	\$77,026	95%
940-010	Engineering Studies	\$244,379	\$83,218	\$150,000	\$233,218	(\$11,161)	105%
	<b>Total Operating</b>	<b>\$1,742,480</b>	<b>\$1,658,345</b>	<b>\$150,000</b>	<b>\$1,808,345</b>	<b>\$65,865</b>	<b>96%</b>
<b>Capital</b>							
945-010	Facility Management	\$1,165,565	\$3,270,305	\$4,017,392	\$7,287,697	\$6,122,132	16%
945-012	New ASR Well	\$6,020	\$5,905,175	\$0	\$5,905,175	\$5,899,155	0%
945-080	WMR - Des Moines	\$2,067,152	\$7,505,366	\$1,550,000	\$9,055,366	\$6,988,214	23%
945-090	WMR - Polk County	\$624,652	\$2,814,908	\$3,230,000	\$6,044,908	\$5,420,256	10%
945-095	WMR - Windsor Heights	\$8,755	\$574,290	\$245,000	\$819,290	\$810,535	1%
945-100	WMR - Pleasant Hill	\$15,975	\$0	\$0	\$0	(\$15,975)	No Budget
945-120	WMR - Cumming	\$414	\$0	\$0	\$0	(\$414)	No Budget
945-200	Development Plan Review & Inspection	\$311,613	\$280,140	\$24,000	\$304,140	(\$7,473)	102%
945-210	Core Network Feeder Mains	\$56,504	\$915,559	\$0	\$915,559	\$859,055	6%
945-220	Fleur Drive Treatment Plant	\$2,277,617	\$9,309,026	\$785,618	\$10,094,644	\$7,817,027	23%
945-225	McMullen Water Treatment Plant	\$50,106	\$1,626,863	\$1,312,000	\$2,938,863	\$2,888,757	2%
945-228	Saylorville Water Treatment Plant	\$998,476	\$6,413,530	\$454,820	\$6,868,350	\$5,869,874	15%
945-230	Remote Facilities - Pumping & Storage	\$322,871	\$0	\$80,000	\$80,000	(\$242,871)	404%
945-235	Joint NW Storage, PS and Feeder Mains	\$145,335	\$0	\$0	\$0	(\$145,335)	No Budget
945-245	Joint SW Storage, PS and Feeder Mains	\$484,296	\$0	\$536,000	\$536,000	\$51,704	90%
945-250	Waukee-Xenia Feeder Main & Pump Station	\$82,600	\$0	\$0	\$0	(\$82,600)	No Budget
945-255	Bondurant Feeder and Pump Station	\$173	\$1,215,171	\$0	\$1,215,171	\$1,214,999	0%
	<b>Total Capital</b>	<b>\$8,618,123</b>	<b>\$39,830,333</b>	<b>\$12,234,830</b>	<b>\$52,065,163</b>	<b>\$43,447,040</b>	<b>17%</b>
<b>Total Engineering</b>		<b>\$10,360,603</b>	<b>\$41,488,678</b>	<b>\$12,384,830</b>	<b>\$53,873,508</b>	<b>\$43,512,905</b>	<b>19%</b>



DES MOINES WATER WORKS  
 Project Costs by Department - Summary  
 Year to Date ended October 31, 2022  
 83% of Year Completed

**Finance**

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
Operating							
930-001	Finance Dept Administration	\$820,407	\$984,601	\$0	\$984,601	\$164,194	83%
930-010	Financial Services	\$1,862,516	\$2,172,868	\$0	\$2,172,868	\$310,352	86%
930-086	Other Accounting Expenses	\$595	\$0	\$0	\$0	(\$595)	No Budget
930-090	Purchasing	\$93,501	\$96,381	\$0	\$96,381	\$2,880	97%
950-410	A/R Management	\$702,442	\$913,398	\$0	\$913,398	\$210,956	77%
970-010	Central Stores	\$86,686	\$117,500	\$0	\$117,500	\$30,814	74%
970-500	GDMBG Operations and Maintenance	\$200,000	\$200,000	\$0	\$200,000	\$0	100%
Total Operating		\$3,766,147	\$4,484,748	\$0	\$4,484,748	\$718,601	84%
Capital							
955-090	Pmt/Mail Processing Capital	\$0	\$0	\$0	\$0	\$0	No Budget
Total Capital		\$0	\$0	\$0	\$0	\$0	No Budget
Total Finance		\$3,766,147	\$4,484,748	\$0	\$4,484,748	\$718,601	84%

DES MOINES WATER WORKS  
 Project Costs by Department - Summary  
 Year to Date ended October 31, 2022  
 83% of Year Completed

**Human Resources**

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
Operating							
910-001	HR Dept Administration	\$258,576	\$291,281	\$0	\$291,281	\$32,705	89%
910-010	Employee Relations	\$257,337	\$193,950	\$0	\$193,950	(\$63,387)	133%
910-060	Employment	\$87,017	\$94,309	\$0	\$94,309	\$7,292	92%
910-110	Compensation/Benefits	\$109,861	\$152,434	\$0	\$152,434	\$42,573	72%
910-150	Employee Learning & Growth	\$10,698	\$53,393	\$0	\$53,393	\$42,695	20%
	Total Operating	<u>\$723,489</u>	<u>\$785,367</u>	<u>\$0</u>	<u>\$785,367</u>	<u>\$61,878</u>	<u>92%</u>
Capital							
	Total Capital	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>No Budget</u>
Total Human Resources		<u>\$723,489</u>	<u>\$785,367</u>	<u>\$0</u>	<u>\$785,367</u>	<u>\$61,878</u>	<u>92%</u>

DES MOINES WATER WORKS  
 Project Costs by Department - Summary  
 Year to Date ended October 31, 2022  
 83% of Year Completed

**Information Technology**

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
Operating							
920-001	IT Dept Administration	\$651,627	\$755,124	\$0	\$755,124	\$103,497	86%
920-160	Technical Services	\$253,614	\$290,444	\$0	\$290,444	\$36,830	87%
920-240	IT Development & Application Svcs	\$22,113	\$68,958	\$0	\$68,958	\$46,845	32%
920-250	IT Services	\$884,327	\$1,230,840	\$0	\$1,230,840	\$346,513	72%
920-350	System Services	\$690,910	\$840,270	\$0	\$840,270	\$149,360	82%
	Total Operating	<u>\$2,502,592</u>	<u>\$3,185,636</u>	<u>\$0</u>	<u>\$3,185,636</u>	<u>\$683,044</u>	<u>79%</u>
Capital							
925-010	Info Systems Capital	\$234,648	\$1,385,761	\$0	\$1,385,761	\$1,151,113	17%
	Total Capital	<u>\$234,648</u>	<u>\$1,385,761</u>	<u>\$0</u>	<u>\$1,385,761</u>	<u>\$1,151,113</u>	<u>17%</u>
Total Information Technology		<u>\$2,737,239</u>	<u>\$4,571,397</u>	<u>\$0</u>	<u>\$4,571,397</u>	<u>\$1,834,158</u>	<u>60%</u>

DES MOINES WATER WORKS  
 Project Costs by Department - Summary  
 Year to Date ended October 31, 2022  
 83% of Year Completed

**Office of the Chief Operating Officer**

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
Operating							
993-000	OCOO Dept Administration	\$36,153	\$69,782	\$0	\$69,782	\$33,629	52%
960-510	Risk & Incident Management	\$603,379	\$822,188	\$0	\$822,188	\$218,809	73%
910-240	Safety	\$152,915	\$231,081	\$0	\$231,081	\$78,166	66%
970-060	Grounds Maintenance	\$543,680	\$796,349	\$0	\$796,349	\$252,669	68%
	Department Operating	<u>\$1,336,127</u>	<u>\$1,919,400</u>	<u>\$0</u>	<u>\$1,919,400</u>	<u>\$583,273</u>	<u>70%</u>
960-511	Flood Response & Repairs	\$2,407	\$0	\$0	\$0	(\$2,407)	No Budget
970-060	Grounds Maintenance - PILOT	\$1,329,838	\$1,329,838	\$0	\$1,329,838	\$0	100%
	Total Operating	<u>\$2,668,372</u>	<u>\$3,249,238</u>	<u>\$0</u>	<u>\$3,249,238</u>	<u>\$580,866</u>	<u>82%</u>
Capital							
975-005	Grounds Maintenance Capital	\$13,685	\$34,000	\$0	\$34,000	\$20,315	40%
	Total Capital	<u>\$13,685</u>	<u>\$34,000</u>	<u>\$0</u>	<u>\$34,000</u>	<u>\$20,315</u>	<u>40%</u>
Total Office of the COO		<u>\$2,682,058</u>	<u>\$3,283,238</u>	<u>\$0</u>	<u>\$3,283,238</u>	<u>\$601,180</u>	<u>82%</u>

DES MOINES WATER WORKS  
 Project Costs by Department - Summary  
 Year to Date ended October 31, 2022  
 83% of Year Completed

**Water Distribution**

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
Operating							
960-001	Water Dist Dept Administration	\$2,911,611	\$3,828,989	\$0	\$3,828,989	\$917,378	76%
960-010	Distribution Administration	\$153,226	\$213,995	\$0	\$213,995	\$60,769	72%
960-100	Dist System Maint/Repairs	\$2,459,422	\$2,872,733	\$0	\$2,872,733	\$413,311	86%
960-160	Water Distribution Support	\$394,181	\$576,125	\$0	\$576,125	\$181,944	68%
960-180	Leak Detection	\$586,085	\$711,738	\$0	\$711,738	\$125,653	82%
960-250	Distribution Billed Services	\$753,367	\$691,191	\$0	\$691,191	(\$62,176)	109%
960-500	Distribution Water Quality	\$115,134	\$220,034	\$0	\$220,034	\$104,900	52%
Total Operating		\$7,373,025	\$9,114,805	\$0	\$9,114,805	\$1,741,780	81%
Capital							
965-010	Distribution System Improvements	\$508,567	\$1,353,499	\$0	\$1,353,499	\$844,932	38%
965-025	Dist Billed Services Capital	\$10,299	\$20,700	\$0	\$20,700	\$10,401	50%
965-200	Leak Detection Equipment	\$11,540	\$13,300	\$0	\$13,300	\$1,760	87%
Total Capital		\$530,406	\$1,387,499	\$0	\$1,387,499	\$857,093	38%
Total Water Distribution		\$7,903,432	\$10,502,304	\$0	\$10,502,304	\$2,598,872	75%

DES MOINES WATER WORKS  
Project Costs by Department - Summary  
Year to Date ended October 31, 2022  
83% of Year Completed

**Water Production**

		YTD Actual	Yearly Budget 2022	Budget Adjustment / Carry Over	Net Yearly 2022 Budget	Variance	% of Budget
<b>Operating</b>							
970-110	Facility Maintenance	\$472,481	\$578,390	\$0	\$578,390	\$105,909	82%
970-200	Vehicle Maintenance	\$940,342	\$1,062,519	\$0	\$1,062,519	\$122,177	89%
970-360	Communication Sys Maintenance	\$27,335	\$49,278	\$0	\$49,278	\$21,943	55%
970-450	HVAC Operations & Maintenance	\$116,589	\$138,540	\$0	\$138,540	\$21,951	84%
980-001	Water Production Dept Admin	\$3,260,307	\$3,972,706	\$0	\$3,972,706	\$712,399	82%
980-010	Water Production Operations	\$980,561	\$1,084,457	\$0	\$1,084,457	\$103,896	90%
980-020	Fleur Treatment Chem/Energy	\$5,559,271	\$6,268,728	\$0	\$6,268,728	\$709,457	89%
980-030	McMullen Treatment Chem/Energy	\$2,038,796	\$4,354,799	\$0	\$4,354,799	\$2,316,003	47%
980-040	Saylorville Treatment Chem/Energy	\$924,594	\$1,063,537	\$0	\$1,063,537	\$138,943	87%
980-200	Fleur Plant Maintenance	\$1,343,124	\$1,937,213	\$0	\$1,937,213	\$594,089	69%
980-250	McMullen Plant Maintenance	\$392,941	\$555,127	\$0	\$555,127	\$162,186	71%
980-300	Saylorville Plant Maintenance	\$361,766	\$502,896	\$0	\$502,896	\$141,130	72%
980-350	WP Maintenance Oversight	\$146,097	\$217,924	\$0	\$217,924	\$71,828	67%
980-410	Louise P. Moon Pumping & Maint.	\$432,542	\$540,754	\$0	\$540,754	\$108,212	80%
980-420	PC PS Maintenance	\$126,473	\$152,034	\$0	\$152,034	\$25,561	83%
980-430	DM Remote Storage & Pumping	\$573,942	\$741,686	\$0	\$741,686	\$167,744	77%
980-500	Routine Laboratory Monitoring	\$542,534	\$615,442	\$0	\$615,442	\$72,908	88%
980-530	Source Water Quality	\$49,436	\$151,200	\$0	\$151,200	\$101,764	33%
<b>Total Operating</b>		<b>\$18,289,130</b>	<b>\$23,987,230</b>	<b>\$0</b>	<b>\$23,987,230</b>	<b>\$5,698,100</b>	<b>76%</b>
<b>Capital</b>							
985-010	Water Production Reinvestment	\$654,456	\$968,298	\$0	\$968,298	\$313,842	68%
975-010	Vehicle Capital	\$232,334	\$899,638	\$800,000	\$1,699,638	\$1,467,304	14%
<b>Total Capital</b>		<b>\$886,790</b>	<b>\$1,867,936</b>	<b>\$800,000</b>	<b>\$2,667,936</b>	<b>\$1,781,146</b>	<b>33%</b>
<b>Total Water Production</b>		<b>\$19,175,919</b>	<b>\$25,855,166</b>	<b>\$800,000</b>	<b>\$26,655,166</b>	<b>\$7,479,247</b>	<b>72%</b>

**Consent Agenda  
Item 1-C**

**MONTHLY SCHEDULE FOR THE MONTH OF OCTOBER 2022**

BANKERS TRUST OPERATING FUND	Investment Purchased	2,130,932.88
ACCOUNTS PAYABLE MONTHLY SCHEDULE	Weekly Check Runs	5,735,882.94
EMPLOYEE PAYROLL	Bi Weekly Payrolls	<u>822,165.88</u>
TOTAL		<u><u>\$8,688,981.70</u></u>

PAYMENTS FOR OCTOBER, 2022

PeopleSoft Financials

Report ID: DWAPR002.sqr

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
17572	IPERS Collections	Pension Plan Contribution	\$331,652.23
101422	Des Moines Metro Credit Union	Credit Union Payable	25,785.00
102822	Des Moines Metro Credit Union	Credit Union Payable	26,309.00
103122	Discovery Benefits	Flex Spending - Reimbursements	2,275.58
221014	Principal Life Insurance	Deferred Compensation Payable	60,023.65
221028	Principal Life Insurance	Deferred Compensation Payable	59,942.29
264255	Master Single Payment Vendor	Refunds	211.82
264256	Master Single Payment Vendor	Refunds	95.65
264257	Master Single Payment Vendor	Refunds	164.47
264258	Master Single Payment Vendor	Refunds	202.12
264259	Master Single Payment Vendor	Refunds	160.01
264260	Master Single Payment Vendor	Refunds	131.44
264261	Master Single Payment Vendor	Refunds	325.03
264262	Master Single Payment Vendor	Refunds	86.63
264263	Master Single Payment Vendor	Refunds	62.29
264264	Master Single Payment Vendor	Refunds	446.65
264265	Master Single Payment Vendor	Refunds	93.52
264266	Master Single Payment Vendor	Refunds	35.85
264267	Master Single Payment Vendor	Refunds	1,795.36
264268	Master Single Payment Vendor	Refunds	220.54
264269	Master Single Payment Vendor	Refunds	30.63
264270	Master Single Payment Vendor	Refunds	157.27
264271	Master Single Payment Vendor	Refunds	90.55
264272	Master Single Payment Vendor	Refunds	76.12
264273	Master Single Payment Vendor	Refunds	9.63
264274	Master Single Payment Vendor	Refunds	8.98
264275	Master Single Payment Vendor	Refunds	381.49
264276	Master Single Payment Vendor	Refunds	151.82
264277	Master Single Payment Vendor	Refunds	136.69
264278	Master Single Payment Vendor	Refunds	120.94
264279	Master Single Payment Vendor	Refunds	29.19
264280	Master Single Payment Vendor	Refunds	112.25
264281	Master Single Payment Vendor	Refunds	453.28
264282	Master Single Payment Vendor	Refunds	114.18
264283	Master Single Payment Vendor	Refunds	161.04
264284	Master Single Payment Vendor	Refunds	99.74
264285	Master Single Payment Vendor	Refunds	125.92
264286	Master Single Payment Vendor	Refunds	52.68
264287	Master Single Payment Vendor	Refunds	131.22
264288	Acme Tools	Inventory	260.69
264289	Ahlers, Cooney, PC	Legal Fees	2,400.00
264290	Airgas North Central	Materials & Supplies	12.82
264291	Badger Daylighting	Contractors	2,334.66
264292	Bob Brown Chevrolet, Inc.	Vehicle Maintenance Materials	243.49
264293	Bolton & Menk, Inc	Contractors	1,263.50
264294	CPI International	Inventory	2,064.71
264295	Canon Financial Services INC	Printing & Copies	100.34
264296	Capital Sanitary Supply	Inventory	329.70
264297	Carquest	Vehicle Maintenance Materials	242.80
264298	CenturyLink	Telephone Services	251.39
264299	Cintas	Purchased Services	2,115.19
264300	City Supply Corporation	Inventory	248.71
264301	City of Des Moines	Contractors	1,230.00
264302	City of Des Moines	Purchased Services	335.00
264303	Cody Hay	Safety Boots	245.00
264304	Commercial Supply Co	Inventory	930.00
264305	Construction & Aggregate Products, Inc.	Inventory	104.00



PAYMENTS FOR OCTOBER, 2022

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<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
264306	Corrosion Fluid Products	Inventory	659.11
264307	Des Moines Register	Advertising	113.42
264308	Des Moines Water Works Petty Cash	Materials & Supplies	663.23
264309	Duke Aerial Equipment	Vehicle Maintenance Materials	1,066.50
264310	Factory Motor Parts Company	Vehicle Maintenance Materials	733.76
264311	Fastenal Company	Materials & Supplies	148.05
264312	Ferrellgas, Inc.	Vehicle Maintenance Materials	55.82
264313	Fil-Trek	Inventory	243.83
264314	First Choice Coffee	Food & Beverages	287.00
264315	Fisher Scientific	Materials & Supplies	988.38
264316	Graybar Electric Company	Materials & Supplies	1,384.53
264317	Hach Chemical Company	Materials & Supplies	221.42
264318	Home City Ice	Park Materials	465.18
264319	Indelco Plastics	Inventory	136.06
264320	Iowa Public Radio	Advertising	1,312.20
264321	Jennifer Puffer	Materials & Supplies	77.94
264322	Jesse Fuller	Materials & Supplies	117.65
264323	Logan Contractors Supply, Inc.	Inventory	77.80
264324	MSC Industrial Supply Company	Vehicle Maintenance Materials	14.12
264325	McMaster-Carr Supply Company	Inventory	1,848.39
264326	Midwest Office Technology, Inc.	Printing & Copies	992.80
264327	Midwest Wheel Companies	Vehicle Maintenance Materials	123.89
264328	Motorola Inc.	Materials & Supplies	2,061.48
264329	Murphy Tractor & Equipment	Vehicle Maintenance Materials	538.71
264330	One Source	Purchased Services	125.00
264331	P & P Small Engines, Inc.	Vehicle Maintenance Materials	280.92
264332	Plumb Supply Company	Inventory	529.88
264333	Premier Safety	Inventory	189.07
264334	Protex Central, Inc.	Purchased Services	2,138.00
264335	Radwell International	Inventory	2,229.76
264336	Revenue Advantage	Purchased Services	950.00
264337	Rex Wiant	Purchased Services	1,607.15
264338	Robert Allison	Food & Beverages	641.52
264339	Servicemaster Commercial Carpet, Inc.	Purchased Services	880.00
264340	Siemens Industry Inc. c/oJasper eng	Inventory	1,223.00
264341	Skarshaug Testing Laboratory	Materials & Supplies	254.63
264342	Springer Pest Solutions DSM	Purchased Services	72.60
264343	Star Equipment, Ltd.	Vehicle Maintenance Materials	431.23
264344	Storey-Kenworthy Company	Office Supplies	435.18
264345	Superior Industrial Equipment	Inventory	367.74
264346	TPx Communications	Internet Connectivity	723.17
264347	Thyssenkrupp Elevator Corporation	Purchased Services	683.29
264348	Total Tool	Inventory	273.73
264349	Traffic Logix	Dues and Memberships	500.00
264350	Tyler Travis	Safety Boots	245.00
264351	UPS	Delivery/Freight	7.20
264352	USA Bluebook	Inventory	681.42
264353	USA Safety Supply Corp	Inventory	170.20
264354	VWR International LLC	Materials & Supplies	200.56
264355	Van-Wall Group	Vehicle Maintenance Materials	602.45
264356	Waste Solutions of Iowa	Purchased Services	273.00
264357	West Des Moines Water Works	Sewer	69.00
264358	Ziegler Inc.	Contractors	586.25
264359	Air Products	Inventory	6,301.98
264360	B & C Commercial Cleaning L.C.	Purchased Services	6,000.00
264361	Berens-Tate Consulting Group	Purchased Services	2,500.00
264362	Bonnie's Barricades	Contractors	2,615.00

PAYMENTS FOR OCTOBER, 2022

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264363	CFI Tire Service	Vehicle Maintenance Materials	3,903.55
264364	CTI Ready Mix	Concrete	10,106.00
264365	City of Alleman	Alleman Payable	9,189.11
264366	City of Cumming	Cumming Payable	5,534.83
264367	City of Pleasant Hill	Billing Service Revenue	284,526.63
264368	City of Runnells	Billing Service Revenue	6,892.67
264369	City of Windsor Heights	Billing Service Revenue	51,994.46
264370	Core and Main	Inventory	5,280.00
264371	Douglas K. Oscarson	Consultants	3,552.00
264372	Grainger, Inc.	Materials & Supplies	5,445.82
264373	Greenfield Plaza Sanitary Sewer	Billing Service Revenue	21,461.39
264374	Hawkins Inc	Inventory	11,246.28
264375	HomeServe USA	Billing Service Revenue	202,331.27
264376	Hutcheson Engineering Products Inc.	Materials & Supplies	47,007.00
264377	Iowa Prison Industries	Materials & Supplies	3,100.00
264378	Keen Independent Research, LLC	Consultants	4,640.00
264379	Kemira Water Solutions, Inc	Inventory	15,511.18
264380	MW Media Consultants, LLC	Consultants	5,527.27
264381	Mail Services LLC	Postage	18,712.91
264382	Michelle Snell	Consultants	3,000.00
264383	Mississippi Lime Company	Inventory	47,232.03
264384	Municipal Supply, Inc.	Inventory	4,799.90
264385	Nate Todd Construction	Contractors	60,800.00
264386	Nichols Equipment LLC	Purchased Services	4,769.50
264387	Novaspect	Inventory	2,734.31
264388	Phoenix Security Contractors, LLC	Purchased Services	20,289.22
264389	Polk County	Billing Service Revenue	76,321.58
264390	Polk County Treasurer	Billing Service Revenue	31,063.11
264391	Power Seal	Inventory	6,868.39
264392	Pratum, Inc	Purchased Services	7,800.00
264393	SEI Security Equipment, Inc	Materials & Supplies	7,234.09
264394	Tension Envelope Corporation	Inventory	4,168.35
264395	Torgerson Excavating	Plumbing	21,296.86
264396	Urbandale/Windsor Heights Sanitary Dist	Billing Service Revenue	37,929.50
264397	Veenstra & Kimm, Inc.	Contractors	3,900.00
264398	WRH, Inc.	Contractors	139,555.00
264399	Warren Water District	Purchased Services	2,679.60
264400	Willco, Inc	Inventory	4,154.00
264401	Woodland Lake Estate Association	Woodland Lakes Estates Payable	4,172.30
264402	Master Single Payment Vendor	Refunds	97.46
264403	Master Single Payment Vendor	Refunds	144.76
264404	Master Single Payment Vendor	Refunds	9.34
264405	Master Single Payment Vendor	Refunds	13.03
264406	Master Single Payment Vendor	Refunds	165.92
264407	Master Single Payment Vendor	Refunds	162.09
264408	Voided Check		0.00
264409	Master Single Payment Vendor	Refunds	88.60
264410	Master Single Payment Vendor	Refunds	8.48
264411	Master Single Payment Vendor	Refunds	346.00
264412	Master Single Payment Vendor	Refunds	13.86
264413	Master Single Payment Vendor	Refunds	118.58
264414	Master Single Payment Vendor	Refunds	12.20
264415	Master Single Payment Vendor	Refunds	35.03
264416	Master Single Payment Vendor	Refunds	72.54
264417	Master Single Payment Vendor	Refunds	64.32
264418	Master Single Payment Vendor	Refunds	65.12
264419	Master Single Payment Vendor	Refunds	38.68

PAYMENTS FOR OCTOBER, 2022

PeopleSoft Financials

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<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
264420	Master Single Payment Vendor	Refunds	52.97
264421	Master Single Payment Vendor	Refunds	133.78
264422	Master Single Payment Vendor	Refunds	56.82
264423	Master Single Payment Vendor	Refunds	67.55
264424	Master Single Payment Vendor	Refunds	794.96
264425	Master Single Payment Vendor	Refunds	651.30
264426	Master Single Payment Vendor	Refunds	132.85
264427	Master Single Payment Vendor	Refunds	43.65
264428	Master Single Payment Vendor	Refunds	64.55
264429	Master Single Payment Vendor	Refunds	36.55
264430	Master Single Payment Vendor	Refunds	163.05
264431	Master Single Payment Vendor	Refunds	144.31
264432	Master Single Payment Vendor	Refunds	122.21
264433	Master Single Payment Vendor	Refunds	31.89
264434	Master Single Payment Vendor	Refunds	94.93
264435	Master Single Payment Vendor	Refunds	175.06
264436	Master Single Payment Vendor	Refunds	1,823.90
264437	Master Single Payment Vendor	Refunds	28.82
264438	Master Single Payment Vendor	Refunds	27.17
264439	Master Single Payment Vendor	Refunds	750.03
264440	Master Single Payment Vendor	Refunds	113.03
264441	Master Single Payment Vendor	Refunds	117.56
264442	Master Single Payment Vendor	Refunds	42.29
264443	Master Single Payment Vendor	Refunds	852.32
264444	Master Single Payment Vendor	Refunds	94.63
264445	Acme Tools	Tools	1,464.39
264446	Airgas North Central	Tools	192.60
264447	Amazon Capital Services Inc	Materials & Supplies	1,324.10
264448	American Radiator	Purchased Services	227.50
264449	Angie Allison	ESRI Conference	1,591.00
264450	Armored Knights., Inc	Purchased Services	554.40
264451	Baker Group	Maintenance Contracts	2,274.00
264452	Bearing Headquarters Company	Tools	393.87
264453	Bob Brown Chevrolet, Inc.	Vehicle Maintenance Materials	78.32
264454	Bob Jolly	Mileage	74.12
264455	Bonnie's Barricades	Contractors	1,640.25
264456	Bryan Pollpeter	Safety Glasses	375.00
264457	CenturyLink	Telephone Services	102.72
264458	Charles Steele	Safety Glasses	205.00
264459	ChemScan	Materials & Supplies	2,044.00
264460	Cintas	Purchased Services	1,708.89
264461	City of Des Moines	Contractors	430.00
264462	Dex Media	Advertising	68.00
264463	Douglas K. Oscarson	Consultants	1,809.30
264464	Electrical Engineering & Equipment Co.	Materials & Supplies, Training	279.67
264465	Endress and Hauser	Inventory	775.78
264466	Fisher Scientific	Inventory	183.69
264467	Garratt-Callahan Company	Purchased Services	500.00
264468	General Fire & Safety Equipment	Materials & Supplies	76.00
264469	Gilcrest Jewett Lumber Company	Inventory	344.53
264470	Grainger, Inc.	Inventory	2,252.46
264471	Graybar Electric Company	Vehicle Maintenance Materials	929.06
264472	Grimes Asphalt	Asphalt	148.50
264473	Hach Chemical Company	Materials & Supplies	224.87
264474	IDEXX Laboratories, Inc.	Materials & Supplies	259.49
264475	IP Pathways, LLC	Data Processing Equipment	1,959.46
264476	Iowa Association of Water Agencies	Dues and Memberships	1,860.16

**PAYMENTS FOR OCTOBER, 2022**

PeopleSoft Financials

Report ID: DWAPR002.sqr

<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
264477	Iowa Prison Industries	Materials & Supplies	17.00
264478	John Lins	Iowa Rural Water Conference	488.63
264479	Kinzler Construction Services	Purchased Services	1,564.00
264480	Kirkham Michael	Contractors	375.00
264481	Lawson Products, Inc.	Inventory	19.55
264482	McDonald Supply	Inventory	1,057.79
264483	McMaster-Carr Supply Company	Materials & Supplies	653.02
264484	Megan McDowell Photography	Consultants	834.00
264485	Midwest Wheel Companies	Vehicle Maintenance Materials	22.15
264486	O'Halloran International	Vehicle Maintenance Materials	1,318.01
264487	P & P Small Engines, Inc.	Vehicle Maintenance Materials	36.99
264488	Paul Rusch	Harris Customer Training Conference	1,079.42
264489	Plumb Supply Company	Inventory	384.18
264490	Premier Safety	Inventory	153.86
264491	Print Image Solutions, Inc.	Inventory	222.75
264492	Radwell International	Materials & Supplies	368.52
264493	Ramco Innovations	Materials & Supplies	474.89
264494	Randy Buck	Safety Boots	245.00
264495	Reppert Rigging & Hauling Co.	Contractors	400.00
264496	SEI Security Equipment, Inc	Materials & Supplies	259.82
264497	Star Equipment, Ltd.	Vehicle Maintenance Materials	716.59
264498	State Hygienic Laboratory	Purchased Services	115.00
264499	Stivers	Vehicle Maintenance Materials	132.10
264500	Team Services, Inc.	Contractors	891.22
264501	The Rotary Club of Des Moines	Dues and Memberships	239.00
264502	Tinker Tooling	Inventory	1,175.72
264503	Total Tool	Inventory	158.04
264504	Truck Center Companies	Vehicle Maintenance Materials	195.28
264505	ULINE	Inventory	61.45
264506	UPHDM Occupational Medicine	Purchased Services	145.50
264507	UPS	Delivery/Freight	7.74
264508	USA Safety Supply Corp	Inventory	29.44
264509	United Rentals	Inventory	766.00
264510	Utility Equipment Company	Inventory	2,211.87
264511	VWR International LLC	Inventory	1,748.16
264512	Valley Environmental	Purchased Services	60.00
264513	Van Meter Industrial, Inc.	Materials & Supplies	143.70
264514	Voided Check		0.00
264515	Vessco	Inventory	794.87
264516	Waste Management of Iowa Inc.	Purchased Services	1,960.50
264517	Wex Bank	Gasoline	173.51
264518	Ziegler Inc.	Contractors	1,185.03
264519	Air Products	Inventory	3,774.27
264520	Air-Mach Air Compressor &	Materials & Supplies	2,600.00
264521	Avista Technologies	Materials & Supplies	3,080.00
264522	CL Carroll Co Inc	Contractors	53,675.00
264523	CONVERGEONE, INC	Maintenance Contracts	6,491.60
264524	Calgon Carbon Kuraray	Inventory	38,615.20
264525	Combined Systems Technology, Inc.	Office Equipment	6,321.52
264526	Core and Main	Inventory	31,649.63
264527	Cottingham & Butler	Purchased Services	2,500.00
264528	Electric Pump	Purchased Services	3,970.20
264529	Eurofins Abraxis LLC	Inventory	2,623.40
264530	Evoqua Water Technologies LLC	Contractors	165,059.70
264531	Fastenal Company	Materials & Supplies	2,522.47
264532	HDR Engineering	Purchased Services	13,801.15
264533	Hawkins Inc	Inventory	11,739.44

PAYMENTS FOR OCTOBER, 2022

PeopleSoft Financials

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<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
264534	Indelco Plastics	Inventory	3,293.28
264535	Iowa One Call	Purchased Services	4,850.50
264536	J & K Contracting LLC	Contractors	418,850.25
264537	Kemira Water Solutions, Inc	Inventory	15,348.56
264538	Mid American Energy	Utilities - Electric & Natural Gas	278,174.61
264539	Mississippi Lime Company	Inventory	56,728.24
264540	Municipal Supply, Inc.	Inventory	44,915.54
264541	Power Seal	Inventory	8,042.46
264542	Randstad	Consultants	19,250.40
264543	ShiveHattery, Inc.	Contractors	12,148.70
264544	Speck USA	Asphalt	53,713.95
264545	Suez Water Technologies	Inventory	10,836.00
264546	Torgerson Excavating	Plumbing	13,993.00
264547	True North Controls	Inventory	4,127.00
264548	USA Bluebook	Inventory	2,641.46
264549	Verizon Wireless Messaging Service	Cell Phones	4,909.48
264550	Master Single Payment Vendor	Refunds	99.60
264551	Master Single Payment Vendor	Refunds	59.83
264552	Master Single Payment Vendor	Refunds	129.85
264553	Master Single Payment Vendor	Refunds	105.72
264554	Master Single Payment Vendor	Refunds	122.97
264555	Master Single Payment Vendor	Refunds	48.16
264556	Master Single Payment Vendor	Refunds	137.92
264557	Master Single Payment Vendor	Refunds	131.03
264558	Master Single Payment Vendor	Refunds	34.94
264559	Master Single Payment Vendor	Refunds	54.62
264560	Master Single Payment Vendor	Refunds	53.12
264561	Master Single Payment Vendor	Refunds	87.99
264562	Master Single Payment Vendor	Refunds	186.46
264563	Master Single Payment Vendor	Refunds	50.97
264564	Master Single Payment Vendor	Refunds	152.80
264565	Master Single Payment Vendor	Refunds	42.96
264566	Master Single Payment Vendor	Refunds	131.42
264567	Master Single Payment Vendor	Refunds	152.67
264568	Master Single Payment Vendor	Refunds	61.06
264569	Master Single Payment Vendor	Refunds	6.09
264570	Master Single Payment Vendor	Refunds	46.12
264571	Master Single Payment Vendor	Refunds	34.24
264572	Master Single Payment Vendor	Refunds	72.23
264573	Master Single Payment Vendor	Refunds	67.72
264574	Master Single Payment Vendor	Refunds	88.84
264575	Master Single Payment Vendor	Refunds	39.39
264576	Master Single Payment Vendor	Refunds	39.20
264577	Master Single Payment Vendor	Refunds	291.35
264578	Master Single Payment Vendor	Refunds	114.32
264579	Master Single Payment Vendor	Refunds	433.14
264580	Master Single Payment Vendor	Refunds	30.22
264581	Master Single Payment Vendor	Refunds	16.37
264582	Master Single Payment Vendor	Refunds	41.96
264583	Master Single Payment Vendor	Refunds	56.25
264584	Master Single Payment Vendor	Refunds	34.79
264585	Master Single Payment Vendor	Refunds	134.70
264586	Master Single Payment Vendor	Refunds	40.89
264587	Master Single Payment Vendor	Refunds	59.40
264588	AT&T Mobility	Cell Phones	101.81
264589	Acme Tools	Materials & Supplies	699.98
264590	Action Electrical	Contractors	275.00

PAYMENTS FOR OCTOBER, 2022

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<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
264591	Air Products	Inventory	2,011.78
264592	Airgas North Central	Vehicle Maintenance Materials	207.00
264593	Allender Butzke Engineers Inc.	Contractors	596.52
264594	Allied Electronics	Inventory	169.30
264595	Allied Wire and Cable	Inventory	123.88
264596	Amazon Capital Services Inc	Office Supplies	941.52
264597	AssuredPartners Great Plains LLC	General Insurance Premiums	446.00
264598	Bob Brown Chevrolet, Inc.	Vehicle Maintenance Materials	161.14
264599	Brady Truck & Equipment	Vehicle Maintenance Materials	200.00
264600	CDW	Materials & Supplies	87.00
264601	CFI Tire Service	Vehicle Maintenance Materials	560.00
264602	Capital Sanitary Supply	Inventory	60.10
264603	Cintas	Purchased Services	602.28
264604	City Supply Corporation	Vehicle Maintenance Materials	1,112.05
264605	City of Des Moines	Concrete	285.75
264606	Clive Power Equipment	Vehicle Maintenance Materials	97.64
264607	Consumer Energy	Electrical Power	302.16
264608	DXP	Inventory	113.13
264609	Daniel Rule	Safety Boots	94.94
264610	Delta Dental of Iowa	Vision Withholding	981.44
264611	Douglas K. Oscarson	Consultants	1,787.10
264612	Dultmeier Sales LLC	Inventory	309.01
264613	Eldridge Welding & Machine	Materials & Supplies	1,249.00
264614	Environmental Express	Inventory	226.39
264615	Environmental Resource Assoc.	Materials & Supplies	1,796.33
264616	Fastenal Company	Inventory	83.15
264617	Fisher Scientific	Materials & Supplies	335.02
264618	Grainger, Inc.	Inventory	1,303.99
264619	Graybar Electric Company	Inventory	1,595.31
264620	HY-VEE	Food & Beverages	105.26
264621	Hach Chemical Company	Materials & Supplies	40.60
264622	Home City Ice	Park Materials	311.10
264623	IDEXX Laboratories, Inc.	Materials & Supplies	405.55
264624	Image Solutions	Office Supplies	159.00
264625	Indelco Plastics	Inventory	68.78
264626	Iowa Mediation Service	Materials & Supplies	300.00
264627	Jeff Herzberg	Training	165.00
264628	Jeremy Swain	Materials & Supplies	34.23
264629	Kranto Professiona Media Solutions & Tec	Consultants	850.00
264630	Lawson Products, Inc.	Inventory	84.90
264631	Voided Check		0.00
264632	McDonald Supply	Inventory	17.36
264633	McMaster-Carr Supply Company	Materials & Supplies	431.19
264634	Menard's	Vehicle Maintenance Materials	120.31
264635	Motion Industries	Inventory	2,224.89
264636	Murphy Tractor & Equipment	Vehicle Maintenance Materials	157.80
264637	Napa Auto Parts	Vehicle Maintenance Materials	1,729.96
264638	Neptune Technology Group Inc	Inventory	1,572.06
264639	Paul Young	Safety Boots	197.94
264640	Plumb Supply Company	Inventory	380.58
264641	Premier Safety	Inventory	848.92
264642	Principal Financial	Purchased Services	387.50
264643	Protex Central, Inc.	Purchased Services	124.00
264644	Radwell International	Materials & Supplies	179.76
264645	Ramco Innovations	Materials & Supplies	131.47
264646	Skarshaug Testing Laboratory	Materials & Supplies	790.57
264647	Stetson Building Products	Inventory	106.74

**PAYMENTS FOR OCTOBER, 2022**

PeopleSoft Financials

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<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
264648	Stew Hansen's Dodge City Inc.	Vehicle Maintenance Materials	104.25
264649	Straub Corporation	Inventory	1,711.50
264650	Sweco/Pearson Arnold	Inventory	2,136.67
264651	Team Services, Inc.	Contractors	911.56
264652	Total Tool	Inventory	181.97
264653	Truck Center Companies	Vehicle Maintenance Materials	194.92
264654	ULINE	Materials & Supplies	501.88
264655	UPS	Delivery/Freight	187.95
264656	USA Safety Supply Corp	Inventory	131.26
264657	VWR International LLC	Inventory	1,104.60
264658	Van-Wall Group	Vehicle Maintenance Materials	1,493.22
264659	Vander Haags, Inc.	Vehicle Maintenance Materials	975.00
264660	Waste Solutions of Iowa	Purchased Services	1,249.00
264661	Ziegler Inc.	Maintenance Contracts	2,189.20
264662	Accurate Hydraulics & Machine Serv., Inc	Inventory	2,582.75
264663	Aclara Technologies, LLC	Inventory	147,840.00
264664	Association of Metro Water Agencies	Dues and Memberships	11,800.00
264665	Aureon Communications	Telephone Services	3,868.32
264666	B & C Commercial Cleaning L.C.	Purchased Services	4,400.00
264667	CPI International	Inventory	2,671.97
264668	CTI Ready Mix	Concrete	4,015.00
264669	Calgon Carbon Kuraray	Inventory	33,802.40
264670	Carus Chemical	Inventory	40,427.50
264671	Consolidated Water Solutions	Inventory	7,746.67
264672	Core and Main	Inventory	2,801.80
264673	Cortrol Process Systems	Inventory	11,126.62
264674	Dickinson, Mackaman, Tyler, & Hagen, PC	Legal Fees	8,130.00
264675	E.H. Wachs Company	Distribution Equipment	4,215.00
264676	Force Fitters	Inventory	4,915.00
264677	Gold Standard Diagnostics	Materials & Supplies	6,695.00
264678	HQI Hydraulic	Purchased Services	3,570.56
264679	Hawkins Inc	Inventory	11,578.30
264680	I'll Do It	Contractors	4,770.00
264681	JMT Trucking	Contractors	16,020.39
264682	John's Tree Service, Inc.	Contractors	2,850.00
264683	Keen Independent Research, LLC	Consultants	3,942.00
264684	Kemetco Research Inc	Materials & Supplies	4,000.00
264685	Kemira Water Solutions, Inc	Inventory	15,573.46
264686	Mail Services LLC	Postage	15,766.16
264687	Mid American Energy	Utilities - Electric & Natural Gas	61,958.06
264688	Mississippi Lime Company	Inventory	37,444.29
264689	Nate Todd Construction	Contractors	3,137.50
264690	O'Halloran International	Vehicle Maintenance Materials	4,251.56
264691	Voided Check		0.00
264692	Protectoplas Company	Purchased Services	5,429.16
264693	Renewable Energy Group	Inventory	24,727.04
264694	Selective Insurance	Prepaid Insurance	4,395.00
264695	Stanley Consultants	Contractors	4,264.63
264696	Stonkus Hydraulic, Inc.	Materials & Supplies	23,722.00
264697	UPHDM Occupational Medicine	Purchased Services	3,812.60
264698	USA Bluebook	Inventory	3,822.51
264699	United States Geological Survey	Purchased Services	15,378.09
264700	Univar	Inventory	5,677.84
264701	Utility Equipment Company	Materials & Supplies	5,446.78
264702	Van Meter Industrial, Inc.	Materials & Supplies	8,607.27
264703	Verizon Wireless Messaging Service	Cell Phones	5,927.00
264704	Waldinger Corporation	Purchased Services	6,233.98

**PAYMENTS FOR OCTOBER, 2022**

PeopleSoft Financials

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<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
264705	WaterISAC	Subscriptions	3,300.00
264706	Wellmark Blue Cross & Blue Shield of IA	Group Insurance Premiums	22,669.41
264707	Phoenix Security Contractors, LLC	Purchased Services	20,534.96
264708	Master Single Payment Vendor	Refunds	158.38
264709	Master Single Payment Vendor	Refunds	64.58
264710	Master Single Payment Vendor	Refunds	128.80
264711	Master Single Payment Vendor	Refunds	41.24
264712	Master Single Payment Vendor	Refunds	204.68
264713	Master Single Payment Vendor	Refunds	121.10
264714	Master Single Payment Vendor	Refunds	41.02
264715	Master Single Payment Vendor	Refunds	45.85
264716	Master Single Payment Vendor	Refunds	27.71
264717	Master Single Payment Vendor	Refunds	51.64
264718	Master Single Payment Vendor	Refunds	82.28
264719	Master Single Payment Vendor	Refunds	172.41
264720	Master Single Payment Vendor	Refunds	52.66
264721	Master Single Payment Vendor	Refunds	1,762.97
264722	Master Single Payment Vendor	Refunds	41.12
264723	Master Single Payment Vendor	Refunds	66.81
264724	Master Single Payment Vendor	Refunds	41.43
264725	Master Single Payment Vendor	Refunds	73.55
264726	Master Single Payment Vendor	Unclaimed Refunds	47.82
264727	Accurate Hydraulics & Machine Serv., Inc	Purchased Services	685.00
264728	Acme Tools	Inventory	133.06
264729	Air Products	Inventory	2,030.21
264730	Amazon Capital Services Inc	Office Supplies	416.83
264731	American Marking, Inc.	Office Supplies	15.30
264732	Angie Allison	ESRI Conference	357.84
264733	Baldwin Supply Company	Materials & Supplies	392.45
264734	Bonnie's Barricades	Contractors	1,660.70
264735	CPI International	Inventory	569.00
264736	Canon Financial Services INC	Printing & Copies	1,175.70
264737	Capital Sanitary Supply	Inventory	170.11
264738	City of Des Moines	Contractors	135.00
264739	City of Des Moines	Purchased Services	304.07
264740	Cody Naber	Harris Customer Training Conference	1,250.42
264741	Combined Systems Technology, Inc.	Materials & Supplies	239.99
264742	Copy Systems, Inc.	Printing & Copies	24.96
264743	DMF Gardens	Materials & Supplies	127.00
264744	Des Moines Asphalt & Paving Co., Inc.	Materials & Supplies	107.37
264745	Douglas K. Oscarson	Consultants	1,787.10
264746	Dultmeier Sales LLC	Inventory	70.30
264747	Electronic Engineering Company	Purchased Services	1,374.00
264748	Fastenal Company	Inventory	129.01
264749	First Choice Coffee	Food & Beverages	166.00
264750	George Lawrence	Mileage	89.35
264751	Gilcrest Jewett Lumber Company	Inventory	105.07
264752	Graybar Electric Company	Materials & Supplies	904.46
264753	Hach Chemical Company	Materials & Supplies	20.66
264754	Home City Ice	Park Materials	236.20
264755	Image Solutions	Office Supplies	252.05
264756	Iowa Department of Natural Resources	Purchased Services	316.00
264757	Iowa Prison Industries	Materials & Supplies	34.00
264758	Johnstone Supply	Materials & Supplies	269.33
264759	Lawson Products, Inc.	Inventory	208.89
264760	McMaster-Carr Supply Company	Inventory	1,187.95
264761	Mediacom Business	Internet Connectivity	396.90



PAYMENTS FOR OCTOBER, 2022

PeopleSoft Financials

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<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
264762	Midwest Office Technology, Inc.	Printing & Copies	762.74
264763	Midwest Wheel Companies	Vehicle Maintenance Materials	167.55
264764	Murphy Tractor & Equipment	Vehicle Maintenance Materials	1,064.56
264765	O'Reilly Auto Parts	Vehicle Maintenance Materials	26.03
264766	Plumb Supply Company	Materials & Supplies	319.16
264767	Pollard Company	Inventory	71.86
264768	Power Seal	Inventory	454.03
264769	Premier Safety	Inventory	837.17
264770	Ramco Innovations	Inventory	362.66
264771	SEI Security Equipment, Inc	Materials & Supplies	34.00
264772	Star Equipment, Ltd.	Vehicle Maintenance Materials	214.96
264773	Steffen Truck Equipment Inc.	Vehicle Maintenance Materials	1,106.34
264774	Stetson Building Products	Inventory	92.52
264775	Stivers	Vehicle Maintenance Materials	156.33
264776	The Shredder	Purchased Services	87.00
264777	The Walling Company	Inventory	316.27
264778	Total Tool	Inventory	178.87
264779	UPS	Delivery/Freight	7.20
264780	United Seeds, inc.	Materials & Supplies	670.00
264781	VWR International LLC	Materials & Supplies	998.56
264782	Veenstra & Kimm, Inc.	Contractors	153.00
264783	Vessco	Inventory	1,549.93
264784	Waldinger Corporation	Purchased Services	331.25
264785	Washer Systems of Iowa	Purchased Services	1,277.77
264786	Xpedx	Inventory	1,417.60
264787	Aclara Technologies, LLC	Inventory	147,840.00
264788	CTI Ready Mix	Concrete	3,882.00
264789	Calgon Carbon Kuraray	Inventory	21,913.60
264790	Cintas	Purchased Services	3,285.70
264791	Voided Check		0.00
264792	Consolidated Water Solutions	Inventory	7,746.67
264793	Core and Main	Inventory	3,838.91
264794	Cortrol Process Systems	Inventory	4,680.48
264795	Grainger, Inc.	Materials & Supplies	2,632.13
264796	Hanifen Co. Inc.	Purchased Services	3,009.70
264797	Hawkins Inc	Inventory	5,820.12
264798	I'll Do It	Contractors	12,994.00
264799	J & K Contracting LLC	Contractors	45,369.24
264800	Kemira Water Solutions, Inc	Inventory	15,604.60
264801	Macqueen Group	Purchased Services	6,719.35
264802	Mail Services LLC	Postage	9,548.74
264803	Mid American Energy	Utilities - Electric & Natural Gas	3,059.88
264804	Mississippi Lime Company	Inventory	51,684.01
264805	Municipal Supply, Inc.	Inventory	16,408.10
264806	Neptune Technology Group Inc	Inventory	6,343.72
264807	Raccoon Valley Contractors LLC	Contracts Payable	84,213.97
264808	Superior Industrial Equipment	Materials & Supplies	6,817.54
264809	Synergy Contracting LLC	Contractors	204,484.87
264810	The Underground Co.	Purchased Services	9,400.00
264811	USA Bluebook	Inventory	5,508.43
264812	Univar	Inventory	6,427.23
264813	Van Meter Industrial, Inc.	Materials & Supplies	9,193.69
504273	ADP, LLC	Purchased Services	7,553.90
929346	Treasurer State of Iowa	Unclaimed Refunds	11,866.33
952241	Treasurer State of Iowa	Iowa Water Excise Tax Payable	249,232.67
956077	Treasurer State of Iowa	Iowa State Sales Tax Payable	163,004.96
100122	EBS	Employee Health Premiums	311,192.02

**PAYMENTS FOR OCTOBER, 2022**

PeopleSoft Financials

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<u>Check No.</u>	<u>Paid to:</u>	<u>Description</u>	<u>Amount</u>
101422	Collection Services Center	Garnishment of Wages	1,782.73
101422	Treasurer State of Iowa	State Withholding Taxes Payable	29,090.71
101422	Internal Revenue Service	Withholding Taxes Payable	180,601.32
102822	Collection Services Center	Garnishment of Wages	1,782.73
102822	Treasurer State of Iowa	State Withholding Taxes Payable	27,701.11
102822	Internal Revenue Service	Withholding Taxes Payable	168,889.56
103122	EBS	Employee Health Premiums	14,798.34
103122	CBCS	Compensation Claims	2,900.44
<b>TOTAL</b>			<b><u>\$5,735,882.94</u></b>

CEO APPROVED EXPENDITURES GREATER THAN \$20,000  
MONTHLY SCHEDULE FOR THE MONTH OF OCT 2022

Check #	Vendor	Description	Amount	Details
	none			



DES MOINES WATER WORKS  
Board of Water Works Trustees

Agenda Item No. III-A  
Meeting Date: November 22, 2022  
Chairperson's Signature  Yes  No

**AGENDA ITEM FORM**

**SUBJECT: Proposed 2023 Budget**

**SUMMARY:**

- The budget for 2023 is based on total operating revenue of \$85.4 million.
- The proposed operating budget totals \$58.1 million which is an increase of 9.6% (or \$5.1 million) over the approved 2022 budget. Chemical expenses are budgeted to increase nearly \$3.2 million. This is a result of supply shortages and increased logistic costs. Moderate increases in operating labor, benefits, and purchased services are also contributors to the increase of the operating budget.
- Capital expenditures budgeted for 2023 total \$62.5 million. The budget includes \$6.3 million of capital projects to be funded with State Revolving Fund loans. There is \$24.4 million budgeted for the initial costs of expanding the Saylorville Water Treatment Plant, including the expansion of raw water, expansion of the treatment plant, and construction of necessary feeder mains. These expansion projects are expected to be funded through regional participation.

See the attached memo for detailed information concerning the proposed 2023 budget.

These materials were discussed at the October Finance & Audit committee meeting, the October Board Meeting, and the November Finance & Audit committee meeting.

**FISCAL IMPACT:**

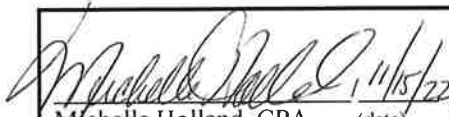
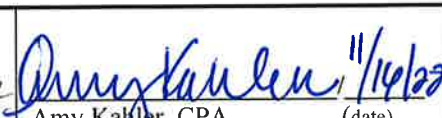
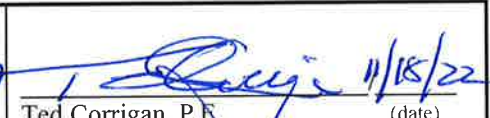
This budget establishes the guidelines for the 2023 operations and capital replacement program for the utility.

**RECOMMENDED ACTION:**

Approve the Des Moines Water Works 2023 budget.

**BOARD REQUIRED ACTION:**

Public Hearing – Opened by Chairperson for comments from the public regarding the budget for 2023.  
Chairperson closes the hearing.  
Motion for the approval of the 2023 Des Moines Water Works budget.

 Michelle Holland, CPA (date) 11/15/22 Controller	 Amy Kallier, CPA (date) 11/14/22 Chief Financial Officer	 Ted Corrigan, P.E. (date) 11/18/22 CEO and General Manager
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Attachment: 2023 Budget Memo.

DATE: November 14, 2022

TO: Ted Corrigan, CEO & General Manager

FROM: Amy Kahler, Chief Financial Officer  
Michelle Holland, Controller

SUBJECT: Proposed 2023 Budget

The attached document contains the following:

- 2023 Budget Highlights
- 2023 Overview of Budget Process
- Proposed 2023 Budget Summary and Comparison to 2022 Budget
- Details of Proposed Revenue, Additional Funding, Operating Expenses, and Capital Expenses
- Summary of Expenditures from 2019-2023
- Future Capital Expenses
- 2023 Budget by Department
- 2023 Labor and Benefits Budget
- 2023 Operating Work Plans Recommended for Funding
- 2023 Capital Work Plans Recommended for Funding
- DMWW Budget Process & Timeline

# 2023 Budget Highlights

**PUMPAGE**

**17.7 BILLION GALLONS**  
Based on 7-year average pumpage  
17.2 billion gallons in 2022 budget

**WATER REVENUE**

**\$79 MILLION**  
(\$5.9 million / 8.0% higher than 2022 budget)

**HEADCOUNT**

Increase in FTE from 2022 Budget  
+1.0 Engineering  
+1.0 HR/OCEO  
+1.0 Water Distribution  
+1.5 Water Production

**OPERATING EXPENSES**

**\$58.1 MILLION**  
(\$5.1 million / 9.6% higher than 2022 budget)

**CAPITAL EXPENSES**

**\$62.5 MILLION**  
(Capital budget in 2022 was \$45.9 million)

**CAPITAL PROJECTS FUNDED BY  
DMWW DEBT (SRF)**

**\$6.3 million**

**INITIAL CAPITAL EXPENSES FOR:**

- ASR Well                      \$2.8 million
- FDTP CO2 Feed              \$1.6 million
- DM River Well Field       \$1.9 million

**CAPITAL PROJECTS FUNDED WITH  
REGIONAL PARTICIPATION**

**\$24.4 million**

**INITIAL CAPITAL EXPENSES FOR:**

- SWTP Raw Water Expansion    \$ 7.1 million
- SWTP Plant Expansion        \$13.2 million
- SWTP W Feeder Main         \$ 3.8 million
- Tenny-LP Moon Feeder Main   \$ 0.4 million

**CAPITAL PROJECTS FUNDED BY UTILITY REVENUES (\$28.4 million)  
& OTHER FUNDING SOURCES (\$2.1 million)**

Water Main Replacement (Des Moines, Polk County, Pleasant Hill)  
 Rehabilitation of Lime Sludge Filter Presses                      Hazen Tower Structural Concrete  
 Modifications to Distribution Building                              Improvement of SCADA Network  
 Rehabilitation of Collector Wells at McMullen                      Replace MWTP Truck Scale  
 Financial Management Software (Year 2)                              Continuing Basin Rechaining  
 Ongoing Departmental Capital – Customer Service, I.T., Water Distribution, Water Production  
 Several other projects at Fleur Drive Treatment Plant, McMullen Treatment Plant and  
 Saylorville Treatment Plant (see details on page 35)

## 2023 Overview of Budget Process

The Des Moines Water Works budget process is very detailed and requires a high level of participation from all departments. We use an activity-based methodology which correlates to our internal financial reporting. Activity-based costing provides the cost tracking and allocations required for our Cost of Service calculations.

The utility prepares a zero-based budget by “project” or activity. Staff identifies strategic goals, identifies the tasks to achieve those goals, and requests the funding necessary to support the tasks and goals. While many companies use a traditional budgeting approach that simply increases the prior year’s budget by a set percentage, DMWW’s zero-based, activity-based budget process reconsiders and justifies all activities of the business every year. The process is detailed, time-consuming, and rigorous; however, the methodology is decision oriented, supports the utility’s Cost of Service study, and results in a budget that is more aligned with strategic goals.

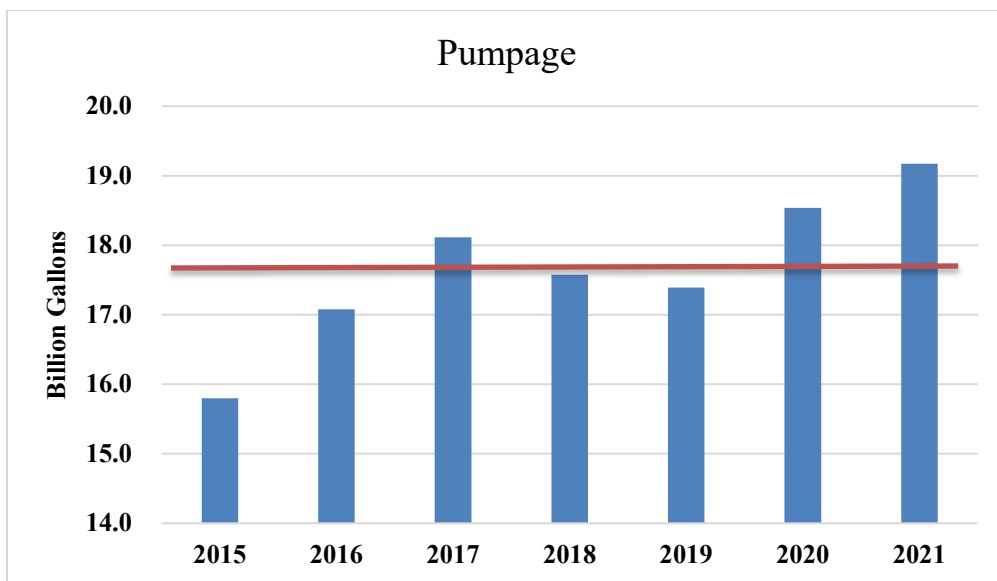
Budget files for operating and capital expenses are created by Finance. These files include prior year budget and actual information for comparative purposes and are created uniformly so that they total into a utility-wide budget. Additionally, there are several monthly financial reports to aid budgeters in reviewing and analyzing data to determine a proper level of expense for the upcoming budget year.

Budgeting is a compilation of assumptions, estimations, and a reliance on financial information and other relevant data.

One of the first assumptions made is the water pumpage budget. Actual pumpage varies from year to year and is rather unpredictable several months out. Weather plays a huge impact on pumpage.

The pumpage budget for 2023 is 17.7 billion gallons. The annual pumpage budget was calculated based on the average pumpage for the last seven years. This is an increase of 500 million gallons from the 2022 budget. By budgeting an average pumpage level, rather than any extreme, there is less likelihood of being significantly different than budget.

The chart below shows the last seven years of pumpage.



The annual pumpage number drives several components of the budget:

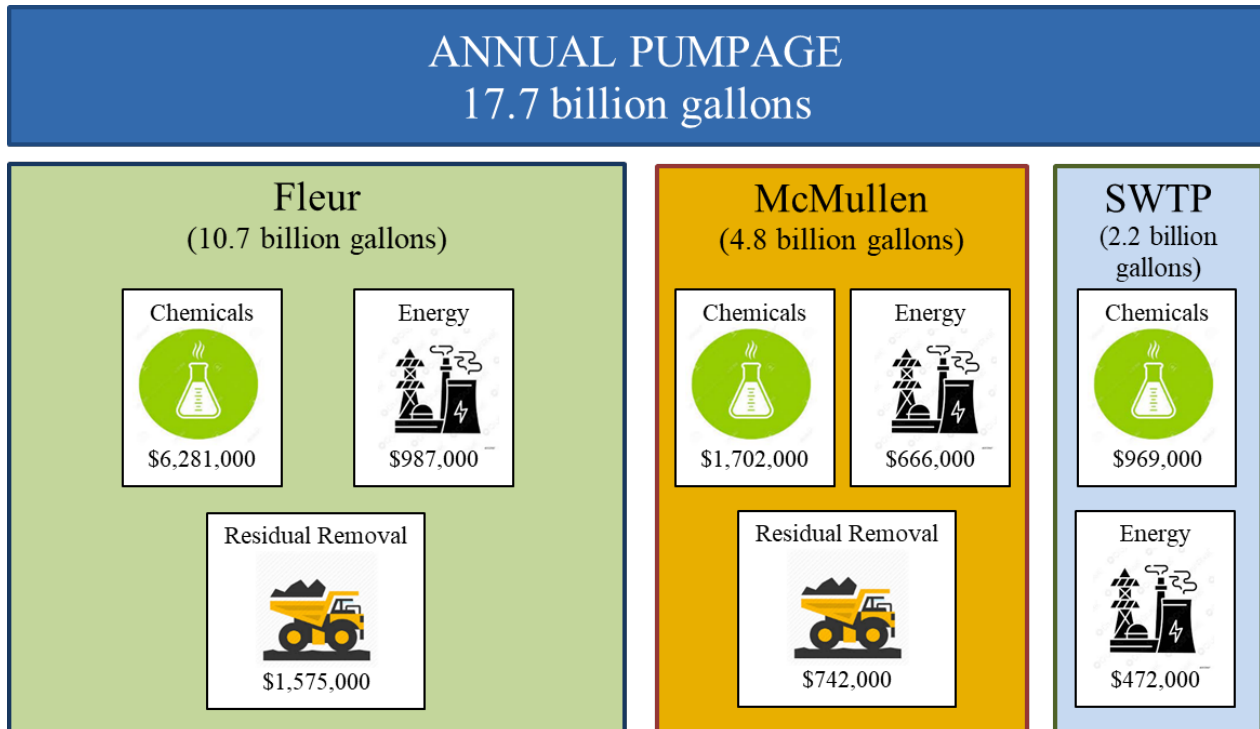
### 1. Water Revenue Budget

From the budgeted pumped gallons, a “billed consumption” number is calculated. On average, approximately 90% of water pumpage is billed. The approximately 10% of unbilled water is from main breaks, hydrant flushing, fire service, water used in production, and free water provided to the City of Des Moines.

The total billed consumption number of gallons is then allocated to the service areas based on historical usage. And finally, the projected water rates are applied to those consumption numbers by service area to calculate budgeted revenues.

### 2. Production at Treatment Facilities

The annual pumpage number is also used to determine the production at each of the three treatment facilities. Once the allocation of pumpage is determined, chemicals, energy, and residual removal expenses are budgeted based on the projected levels of production at each facility. The ongoing mission of water treatment at DMWW is to maintain a consistent finished product despite dynamic changes in raw water quality and quantity. Therefore, day-to-day decisions are being made to provide an adequate supply of water from each treatment plant in a manner that balances the factors of finished water quality, overall treatment expense, and regulatory compliance.



While pumpage is determined at the top level and pushed down, the operating budget is built from the ground up. To derive a budget, a set of assumptions must be used to calculate expenses. Historical data and estimates of future per-unit costs are two factors used to estimate direct treatment costs.



For example, one project within the Distribution System Maintenance work plan is “Repairs – Broken Mains.” The number of main breaks is budgeted at an average of the last several years. Once the number of main breaks is determined, the future cost elements of fixing a main break are projected. These costs include pipe materials, concrete, aggregate materials, street permits, rental barricades, and of course, the labor of our distribution crews.

This type of detailed budgeting is done for the 300+ operating projects within the utility.

A similar process is done to build the capital budget. The 5-year capital improvement plan (CIP) is the starting point for the capital budget. The projects identified in the CIP are pulled into the budget templates and new projects are added for evolving capital needs. The proposed capital projects are reviewed, prioritized, and ultimately included or excluded from the budget depending on available financial resources.

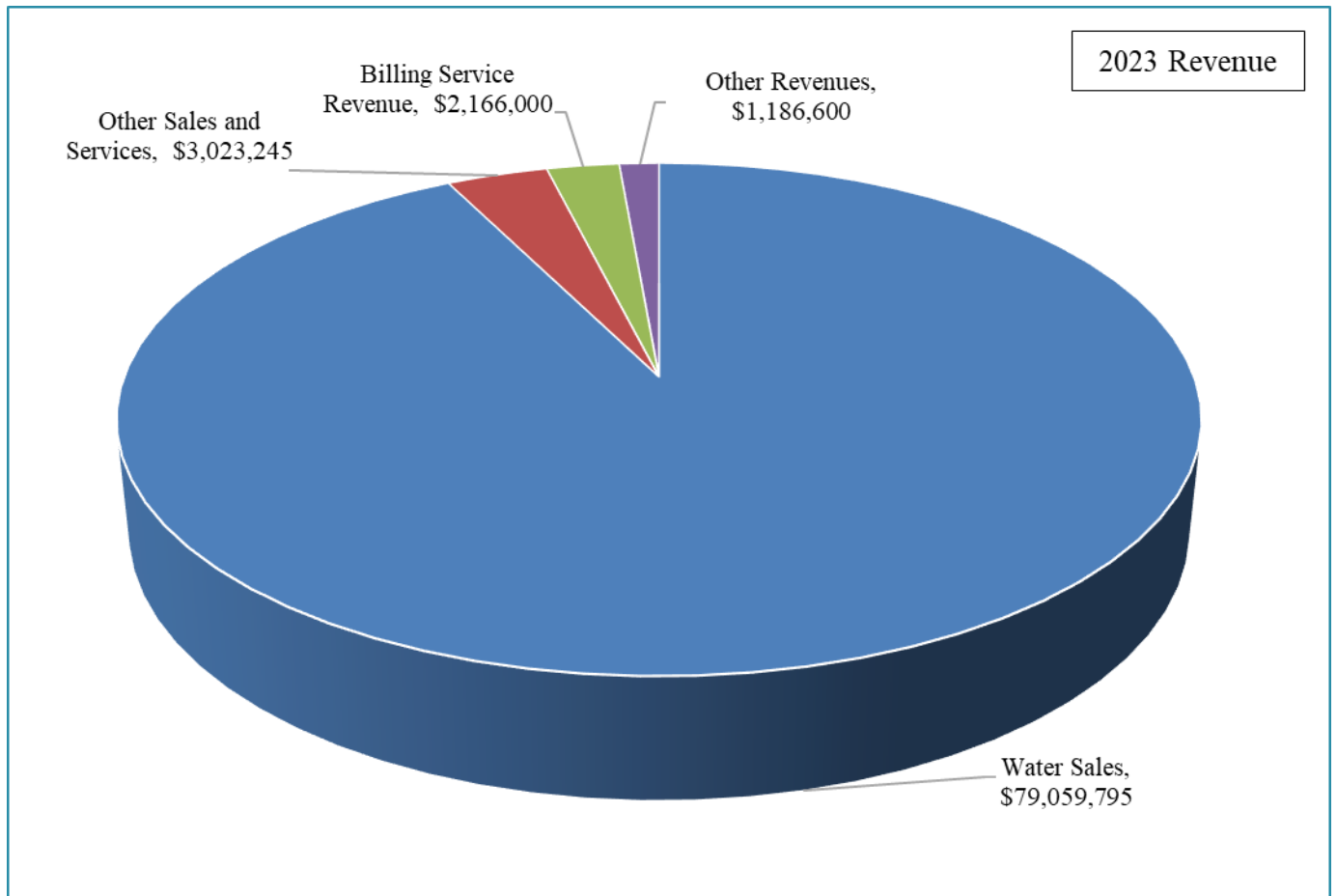
**DES MOINES WATER WORKS**  
**PROPOSED 2023 BUDGET SUMMARY AND COMPARISON TO 2022 BUDGET**

	<b>2023</b>	<b>2022</b>	<b>Percentage</b>
	<b>Proposed Budget</b>	<b>Approved Budget</b>	<b>Change</b>
<b>REVENUE:</b>			
Water sales	\$ 79,059,795	\$ 73,176,757	8.0%
Penalties and fees	375,000	330,000	13.6%
Other sales and services	3,023,245	3,044,112	(0.7%)
Billing service revenue	2,166,000	1,954,280	10.8%
Land & building use revenue	216,000	172,800	25.0%
Connection Fees	400,000	750,000	(46.7%)
Interest income	195,600	177,000	10.5%
<b>Total revenue available for expenses</b>	<b>\$ 85,435,640</b>	<b>\$ 79,604,949</b>	<b>7.3%</b>
<b>ADDITIONAL FUNDING:</b>			
Unspent funds carried over from prior year's approved budget	\$ 1,269,980	\$ 3,092,000	(58.9%)
Development Plan Review	78,600	77,948	0.8%
Capital projects funded by outside entities	25,000	1,174,395	(97.9%)
Projects funded by SRF proceeds (DMWW Debt)	6,271,686	9,387,608	(33.2%)
Projects funded through regional participation	24,391,805	6,601,799	269.5%
American Rescue Plan Act (ARPA) funds through City of Des Moines	1,500,000	-	-
Funds received for capacity in feeder main (Ankeny)	500,000	-	-
PY Excess Revenues to offset regionalization expense	1,130,000	-	-
<b>Total additional funding available for expenses</b>	<b>\$ 35,167,071</b>	<b>\$ 20,333,750</b>	<b>72.9%</b>
<b>Total revenue and additional funding</b>	<b>\$ 120,602,711</b>	<b>\$ 99,938,699</b>	<b>20.7%</b>
<b>EXPENSES:</b>			
<i>Operating expenses:</i>			
Labor	\$ 17,310,594	\$ 16,661,114	3.9%
Benefits	10,103,000	9,662,600	4.6%
Chemicals	8,952,971	5,769,749	55.2%
Residual Removal	2,317,346	3,607,708	(35.8%)
Utilities	3,149,500	3,000,300	5.0%
Gasoline/Fuel	382,680	228,660	67.4%
Purchased Services	8,673,504	7,432,896	16.7%
Training	251,270	158,860	58.2%
Materials and Equipment	4,371,355	3,901,960	12.0%
Insurance	1,625,000	1,575,000	3.2%
Postage	450,000	490,000	(8.2%)
Telephone	288,735	307,500	(6.1%)
Casualty Loss	110,000	100,000	10.0%
Loss on Bad Accounts	155,000	150,000	3.3%
<b>Subtotal - Operating expenses</b>	<b>\$ 58,140,955</b>	<b>\$ 53,046,346</b>	<b>9.6%</b>
<i>Capital expenditures:</i>			
Requests for new capital projects	\$ 61,191,776	\$ 42,840,211	42.8%
Multiple-year capital projects began before 2021 (carryover)	1,269,980	3,092,000	(58.9%)
<b>Subtotal - Capital expenditures</b>	<b>\$ 62,461,756</b>	<b>\$ 45,932,211</b>	<b>36.0%</b>
<i>Debt service obligations:</i>			
Des Moines Water Works' direct obligation	\$ -	\$ 460,142	(100.0%)
<i>Operating reserves:</i>			
Addition to operating reserves	\$ -	\$ 500,000	(100.0%)
<b>Total projected uses</b>	<b>\$ 120,602,710</b>	<b>\$ 99,938,699</b>	<b>20.7%</b>
Net position of revenues to expenses	0	0	

# REVENUE

Operating revenue for 2023 is budgeted at \$85.4 million. This is an increase of approximately \$5.8 million and results in a 7.3% increase over the approved 2022 budget.

This revenue budget includes 17.7 billion gallons of pumpage which is 500 million gallons higher than the 2022 budget of 17.2 billion gallons. The 2023 budget includes volume rate increases of 5.5% for most classes of retail customers, a 10% increase for the wholesale Purchased Capacity customer class, and 0% for the wholesale With Storage customer class. These rates will be effective on April 1, 2023. Capital improvement and water availability fees remain unchanged in the 2023 budget.



**Water Sales** are the most significant source of operating revenue, making up nearly 93% of total revenue. Water sales are budgeted to be \$79.1 million in 2023 which is \$5.9 million higher than the 2022 water sales budget.

**Other Sales and Services** are budgeted at approximately \$3.0 million. These revenues represent amounts budgeted within the departmental work plans. This includes reconnect fees, stop box repairs, distribution system repairs, lab testing, etc.

**Billing Service Revenue** is budgeted at nearly \$2.2 million. This represents fees charged to various cities, including Des Moines, Pleasant Hill, Windsor Heights, and others, for billing and collection services. This also includes revenue from HomeServe USA for billing and collection of fees from the optional service line maintenance program for residential customers.

**Other Revenues**, which are grouped together on the chart above, are budgeted at nearly \$1.2 million and is made up of:

Penalties & Fees	\$375,000
Connection Fees	\$400,000
Land & Bldg Lease Revenue	\$216,000
Interest Income on Invested Reserves	\$195,600

## **ADDITIONAL FUNDING**

Additional funding is made up of several components in the 2023 budget:

- Unspent funds that have been carried over from the prior year’s budget
- Iowa State Revolving Fund (SRF) Loans  
Capital projects that are budgeted to be funded with State Revolving Fund (SRF) loans (DMWW debt):
  - Design and initial construction of an ASR well at the Polk County Pump Station site.
  - Design and initial construction costs to increase storage of CO2 at Fleur Drive Treatment Plant. This project includes new storage tanks (providing more than two weeks of storage), feed modifications, and appropriate controls and instrumentation.
  - Partial design of a well field along the Des Moines River to increase the amount of alluvial ground water available for the Fleur Drive Water Treatment Plant.
- Regional Participation  
Capital projects to be funded through regional participation:
  - Design and initial regulatory and permitting tasks related to adding horizontal collector wells along the Des Moines River to supply the Saylorville Water Treatment Plant expansion.
  - Design, pilot testing and other analyses, and initial regulatory and permitting tasks related to expanding the Saylorville Water Treatment Plant from 10 MGD to 20 MGD.

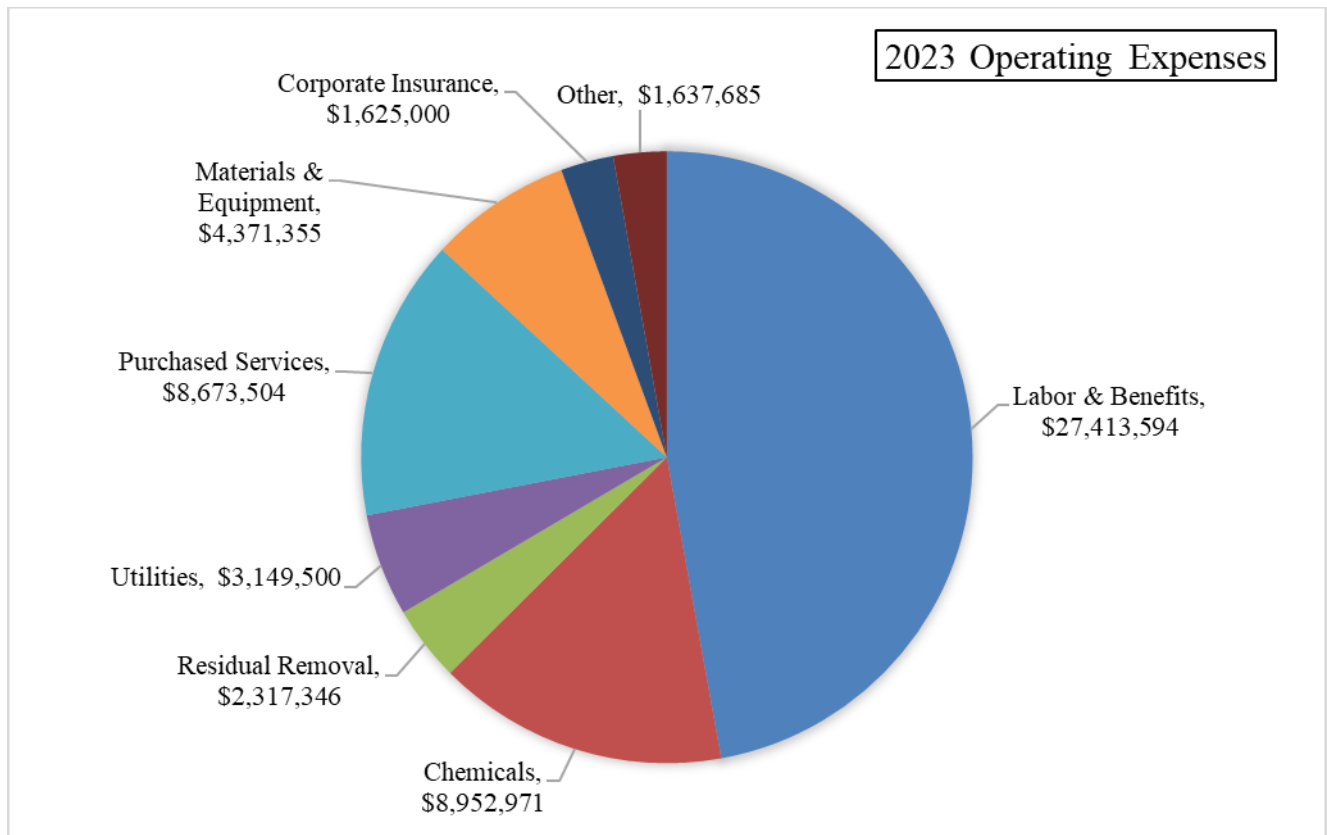
- Design and initial construction of the SWTP West Feeder Main Phase 3, a 30” feeder main from the Saylorville Water Treatment Plant to critical feeder mains located near Tenny Standpipe, which will provide immediate operational benefits and then become imperative on completion of plant expansion.
  - Design of the Tenny to LP Moon Feeder Connection project, a 24” feeder main on Hickman Road from Merle Hay Road to 70<sup>th</sup> Street, that will enhance future flows west toward LP Moon Pumping and Storage Facility.
- American Rescue Plan Act of 2021 (ARPA) Funds from City of Des Moines. City of Des Moines indicated they would be willing to direct a total of \$2.0 million towards water main replacement and/or alterations for city projects. The 2023 budget includes \$1.5 million of ARPA funding.
- City of Ankeny  
Anticipated funding from City of Ankeny to pay for capacity in a 24” feeder main between Ankeny and the Saylorville Water Treatment Plant.
- Prior Year Excess Revenues  
Pumpage and water revenue have exceeded budget for the last several years and operating expenses have generally been favorable to budget as well. These factors have resulted in excess cash reserves. The 2023 budget includes infusing \$1.1 million of the excess cash to offset the one-time regionalization expenses that are included in the budget. Much of these regionalization expenses were budgeted in a prior year but have remained unspent; hence, use of prior year excess revenues is deemed appropriate.

# OPERATING EXPENSE BUDGET

The operating expense budget reflects the budgeted costs of the day-to-day operations of the utility. The proposed operating budget totals \$58.1 million. This is an increase of 9.6% or approximately \$5.1 million from the approved 2022 budget.

The table and chart below show the budgeted operating expenses, the increase over the prior years' budget for the last five years, and the components of the 2023 operating budget:

Year	Operating Budget	Increase
2019	\$ 46,060,938	6.2%
2020	\$ 48,545,551	5.4%
2021	\$ 50,738,899	4.5%
2022	\$ 53,046,346	4.5%
2023	\$ 58,140,955	9.6%



The components of the 2023 operating budget compared to the 2022 operating budget are shown in the table below with more detailed explanations on the following pages.

Operating Expenses	2023 Bgt	2022 Bgt	Change
Labor	\$ 17,310,594	\$ 16,661,114	\$ 649,480
Benefits	10,103,000	9,662,600	440,400
Chemicals	8,952,971	5,769,749	3,183,222
Residual Removal	2,317,346	3,607,708	(1,290,362)
Utilities	3,149,500	3,000,300	149,200
Gasoline/Fuel	382,680	228,660	154,020
Purchased Services	8,673,504	7,432,896	1,240,608
Training	251,270	158,860	92,410
Materials and Equipment	4,371,355	3,901,960	469,395
Insurance	1,625,000	1,575,000	50,000
Postage	450,000	490,000	(40,000)
Telephone	288,735	307,500	(18,765)
Casualty Loss	110,000	100,000	10,000
Loss on Bad Accounts	155,000	150,000	5,000
<b>TOTAL OPERATING EXPENSES</b>	<b>\$ 58,140,955</b>	<b>\$ 53,046,346</b>	<b>\$ 5,094,608</b>

Operating **Labor** is budgeted nearly \$650,000 higher than the 2022 budget. There are approximately 2,200 more hours being budgeted in operating projects in 2023. Some of the increase is a result of adding staff in the 2023 budget, which affects both operating and capital labor hours. There is an increase of 4.5 full-time-equivalents in the 2023 budget compared to the 2022 budget. Most of the increase is in the operations/engineering departments. Additionally, labor rate increases also contribute to the increase in labor dollars.

**Benefit** expenses are up 4.6%, or \$440,000, compared to the 2022 budget. Nearly half of the increase relates to the actuarial defined contribution to the DMWW pension plan. It is budgeted at \$1,700,000 in 2023, which is \$200,000 higher than the 2022 budget. Along with a labor rate increase comes increases to those benefits tied to wages, such as FICA taxes, DMWW contribution to IPERS, and the deferred compensation plan. This accounts for \$178,000 of the overall increase. Finally, the increase of the DMWW contribution to employees' medical premiums is budgeted \$63,000 higher than the 2022 budget.

**Chemical expenses** are budgeted to increase 55.2%, or nearly \$3.2 million in 2023. The increase in chemical expenses is the largest driver of the increase in the operating budget. Some of the increase is a result of increasing budgeted pumpage from 17.2 billion gallons in 2022 to 17.7 billion gallons in 2023. Chemical prices are expected to rise to record levels, causing most of the increase in chemical expenses. Diesel prices, driver shortages, and shortages of raw materials are all contributing to the increased costs. Based on initial indications from chemical vendors, many chemicals are budgeted to increase 15-20% with a few chemicals expected to increase 70-75%.

During budgeting, the Water Production operations staff looks at historical usage trends for each chemical at each plant. That determines the projected amount of chemicals to be used for the 2023 budget. The actual usage of chemicals at the treatment plants will be made on a day-to-day basis throughout the year to provide safe, potable water.

**Residual (lime) Removal** expenses are down nearly \$1.3 million.

Each year, the Fleur and McMullen treatment plants produce lime residuals. The residuals at Fleur are removed as produced. The 2023 budget assumes removal expenses for 51,000 tons of Fleur residual material. The 2022 budget assumed nearly the same tonnage to be removed. The 2023 budget assumes an increase in removal price per ton equating to a \$300,000 increase.

Residual removal expenses at McMullen are minimal in 2023. This results in \$1.6 million of lower expenses compared to the 2022 budget. The residuals at McMullen go through a multi-year cycle. The cycle is: fill lagoon with residuals, dry residuals, remove residuals from the lagoon to a drying area which is located near the lagoon on DMWW property, remove residuals from the drying area to off-site storage or to the final disposal site. There are two lagoons and two drying areas at the McMullen Treatment Plant. The removal cost for the McMullen residual material is multifaceted as well. There are costs incurred when the residual hauler moves material to off-site storage, when they move material from the lagoon to the drying area, and when they move material to the final disposal site. In 2023, the west lagoon will be filled with residuals and the east lagoon will have residual material drying. The 2023 budget assumes the remaining 30,000 tons of material in the drying area will be hauled to the final disposal site. This is down from 121,000 tons of material budgeted in 2022 to be moved from the drying area to the final disposal site. There are no costs in the 2023 budget, nor were there any in the 2022 budget, for expenses related to hauling materials to off-site storage or from a lagoon to the drying area.

**Utilities** expense is up 5.0%, or \$149,000, in 2023. Most of the utility expense is electricity used in the treatment process. The increase in budgeted pumpage and modest electric rate increases account for much of the increase. There is also a \$34,000 increase in diesel fuel expenses at the three treatment plants.

**Gasoline/Fuel** expenses are up \$154,000 due to expected increases in fuel and diesel costs.



**Purchased Services** budgeted in 2023 include:

Purchased Services	2023 Proposed Budget
PILOT	\$ 1,310,000
Regionalization	1,130,000
I.T. Maintenance Contracts	1,019,000
Plant Maintenance	687,000
Remote Site Maintenance	235,000
Distribution Maintenance/Repair	215,000
Stop Box Repairs	280,000
Banking/Audit/Payroll Fees	177,000
Credit Card/E-check/Bill-pay Fees	195,000
Security	615,000
Facility Maintenance	214,000
Public Relations & Communications	130,000
GDMBG annual payment	100,000
Strategic Plan Initiatives	362,000
Public Policy/Watershed Initiatives	182,000
“Other” Services (numerous)	<u>1,822,504</u>
<b>Total</b>	<b>\$ 8,673,504</b>

These expenses are up 16.7% from the 2022 budget.

Many categories of purchased services have gone up a moderate amount including I.T. maintenance security services, stop box repairs, processing fees for electronic payments, and services relating to facility maintenance.

Regionalization expenses of \$1.1 million have been included in the 2023 budget. The 2022 budget included \$505,000 in regionalization expenses that have been largely unspent due to ongoing discussions. These costs include legal fees, consultation and facilitation services as well as DMWW’s share of start-up costs for the new entity. There is offsetting funding for this expense from prior year excess revenues.

There are \$362,000 of budgeted expenses related to the strategic plan initiatives. These initiatives include an organizational assessment in the Water Production department, consulting services for a water rate study focusing on affordability and DMWW’s retail rate structure, consulting services and other expenses relating to diversity, equality, and inclusion, as well as budgeted funds to improve employee culture.

Offsetting the increases are several categories of purchased services that have decreased for 2023. This includes plant maintenance, distribution maintenance & repairs, GDMBG in-kind services, and public policy/watershed initiatives.

**Materials & Equipment** expenses include the supplies and materials used primarily in distribution, plant and remote site maintenance, laboratory supplies, and facility and vehicle maintenance. Expenses are budgeted 12.0% higher in 2023, which equates to \$469,000. As with chemicals, other materials used throughout the utility have had significant price increases due to supply shortages and increased logistics costs.

**Corporate Insurance** expenses include the premium cost for the utility's insurance policies along with budgeted costs for workers' compensation claims. The 2023 budget has premium expenses increasing by \$100,000 and workers' compensation claims decreasing by \$50,000 based on historical trends in claims.

**Other** expenses include postage expenses, telephone, casualty losses, training, bad debt write-off, etc. The amount budgeted for 2023 is approximately \$40,000 lower than the 2022 budget.

Details of all the Operating Work Plans and the comparison between the 2023 Proposed Budget and the 2022 Approved Budget begin on page 23.

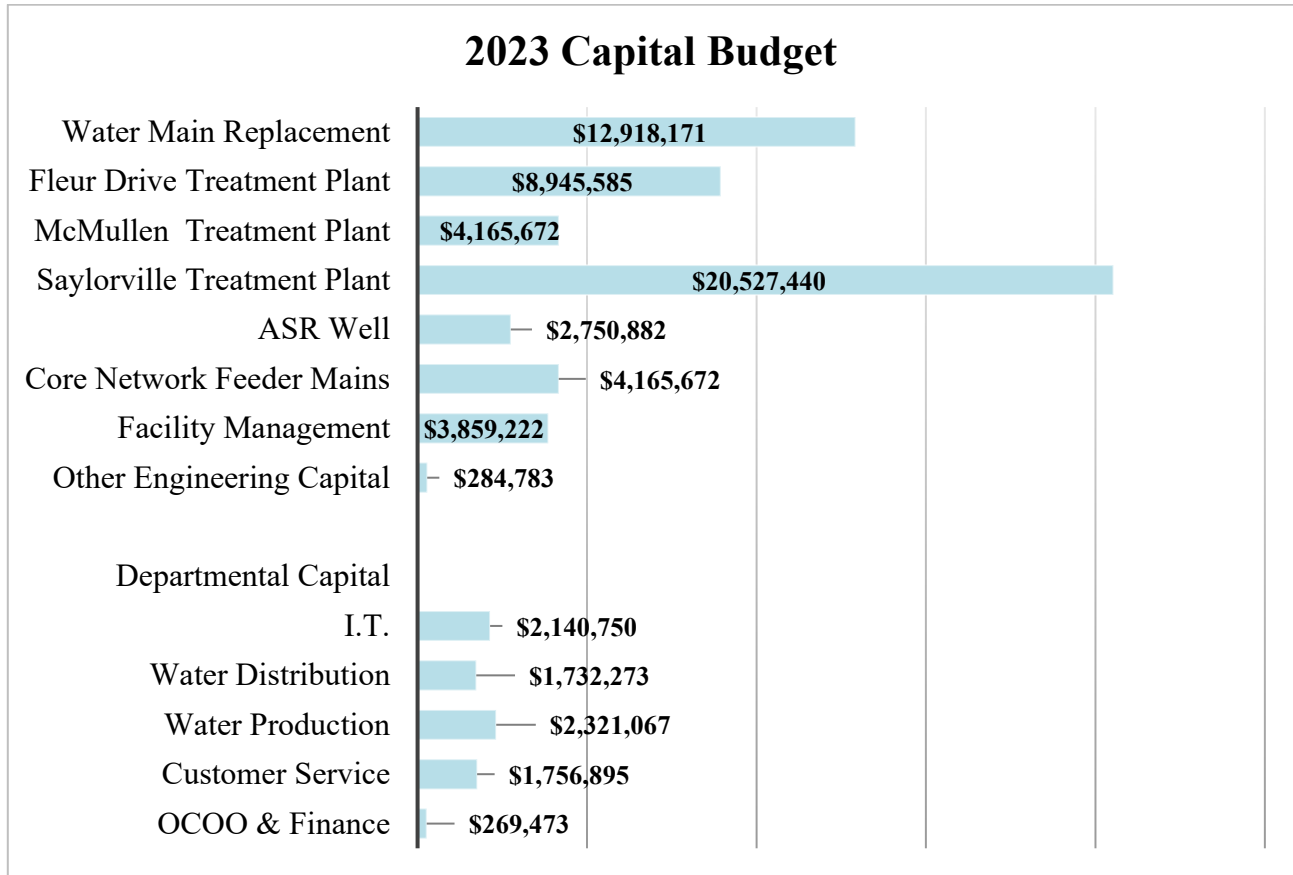
# CAPITAL BUDGET

The 2023 capital budget includes \$62.5 million of capital requests.

Approximately \$1.3 million of the capital budget is for projects that are carried over from the prior year’s budget. Due to the efforts involved in planning, designing, bidding, and constructing large capital items, it is common for some capital spending to carry forward into a new budget year.

Other funding sources for capital projects included in the 2023 budget include \$6.3 million of SRF loans, \$24.4 million through regional participation, \$1.5 million of ARPA funds from City of Des Moines, \$500,000 from City of Ankeny, and roughly \$100,000 from other sources.

That leaves approximately \$28.4 million of capital projects from the utility’s revenue in 2023. This compares to \$25.6 million of capital projects budgeted from the utility’s revenues in 2022.



Water main replacement is budgeted at \$12.9 million in 2023. This amount includes main replacement in Des Moines, Pleasant Hill, and the unincorporated Polk County service area. Included in the 2023 water main replacement budget in Des Moines is \$3.0 million for installation of new feeder main and other system enhancements at the former DICO site (superfund site immediately east of the Fleur Drive Water Treatment) to replace existing feeder main on the site. The enhancements here are being completed in advance of a new soccer stadium that will be

constructed on the site. Additionally, IDOT work results in an additional \$1.8 million being allocated for feeder main alterations needed at the intersection of I-35 and Hickman Road.

Projects budgeted at the Fleur Drive Treatment Plant include installation of permanent backwash return facilities, containment of diesel pump fuel at EHL #1, rebuilding of WHL pump, and continued efforts for basin rechaining. Several projects that are expected to be constructed over multiple years have been budgeted including construction of a new bulk powder activated carbon storage and feed system, initial costs for rehabilitating the filter plant, and additional funds to rehabilitate the lime sludge filter presses, and improvements to the SCADA network. Finally, the FDTP budget includes funds to begin construction on enhancements to the CO2 feed system and initial design costs for an alluvial well field along the Des Moines River. Both of these projects are expected to be financed with SRF loan proceeds.

The McMullen Treatment Plant budget includes projects for rehabilitating a collector well and installation of an isolation valve to isolate well #5 from the raw water system.

The Saylorville Water Treatment Plant budget contains initial design costs and targeted analysis to expand the plant from 10 MGD to 20 MGD as well as the addition of necessary horizontal collector wells along the Des Moines River to supply the plant expansion. The total of these two projects budgeted in 2023 is \$20.5 million and is expected to be funded through regional participation. There are also projects budgeted for improvements to the floor drain and ongoing replacement of the RO membranes.

Design and partial construction of a new ASR well at the Polk County Pump Station site is included in the 2022 budget at \$2.8 million. This project is expected to be financed with SRF loan proceeds.

The Core Network Feeder Main work plan contains two projects. One is to design and begin construction of a 30" feeder main from the Saylorville Water Treatment Plant to critical feeder mains located near Tenny Standpipe. This will provide immediate operational benefits and will be imperative when the plant is expanded. The 2<sup>nd</sup> project is to design the feeder main connection, on Hickman Road, that will enhance flows from Tenny Standpipe to LP Moon. The amount budgeted in 2023 for both projects is \$4.2 million and is expected to be funded through regional participation.

Facility Management projects include funds for restoration of concrete at Hazen Tower, modification to the distribution building due to corrosion issues on the ramp, replacing internal storm and sanitary sewer drain piping, replacement of the trucking scale at McMullen Treatment Plant, and enhancements to the Fleur Drive pump station HVAC. There are several projects budgeted to continue efforts to address safety concerns, replace or improve structural elements of facilities such as roofs, stairs, floors, and concrete.

The I.T. capital budget includes \$1.1 million of funding to replace the PeopleSoft financial system with a new financial management system. This is the 2<sup>nd</sup> year of budgeting \$1.1 million for a total project cost of approximately \$2.2 million. PeopleSoft Financials was implemented in 1999. While it is currently meeting our needs, the system is running on outdated technology and the volume of

activity it has accumulated over 23+ years has caused the system to slow and reach potential breaking points.

There are departmental capital items that are budgeted each year to maintain and upgrade assets. While the projects continue to be budgeted each year, the same review process and prioritization occurs as with the other capital requests to determine the overall capital budget.

The Water Distribution capital budget includes funds for replacing hydrants and valves, replacing large tools to perform the tasks, as well as other upgrades.

Customer Service budgets for meter replacement and automated meter reading equipment (.e.g., MTU) change-outs.

I.T. has a budget for new hardware and software to replace aging equipment. There are two new capital projects budgeted in 2023 for replacing Cradlepoints and Sierra devices in company vehicles and to replace LabLite, the database for laboratory analysis.

Water Production has a capital budget to replace motors, pumps, and other individual parts within the treatment and remote facilities.

Vehicle and equipment replacement is included in the Water Production budget.

Details of the Capital Work Plans begin on page 35.

**Operating Reserves** – The 2023 budget does not include funds to increase operating reserves. Generally, the increase to operating reserves is budgeted at \$500,000. The increase needed for operating reserves to meet the Board policy of three months’ operating expenses in reserves will come from prior year excess revenues rather than 2023 rate revenue.

# SUMMARY OF EXPENDITURES

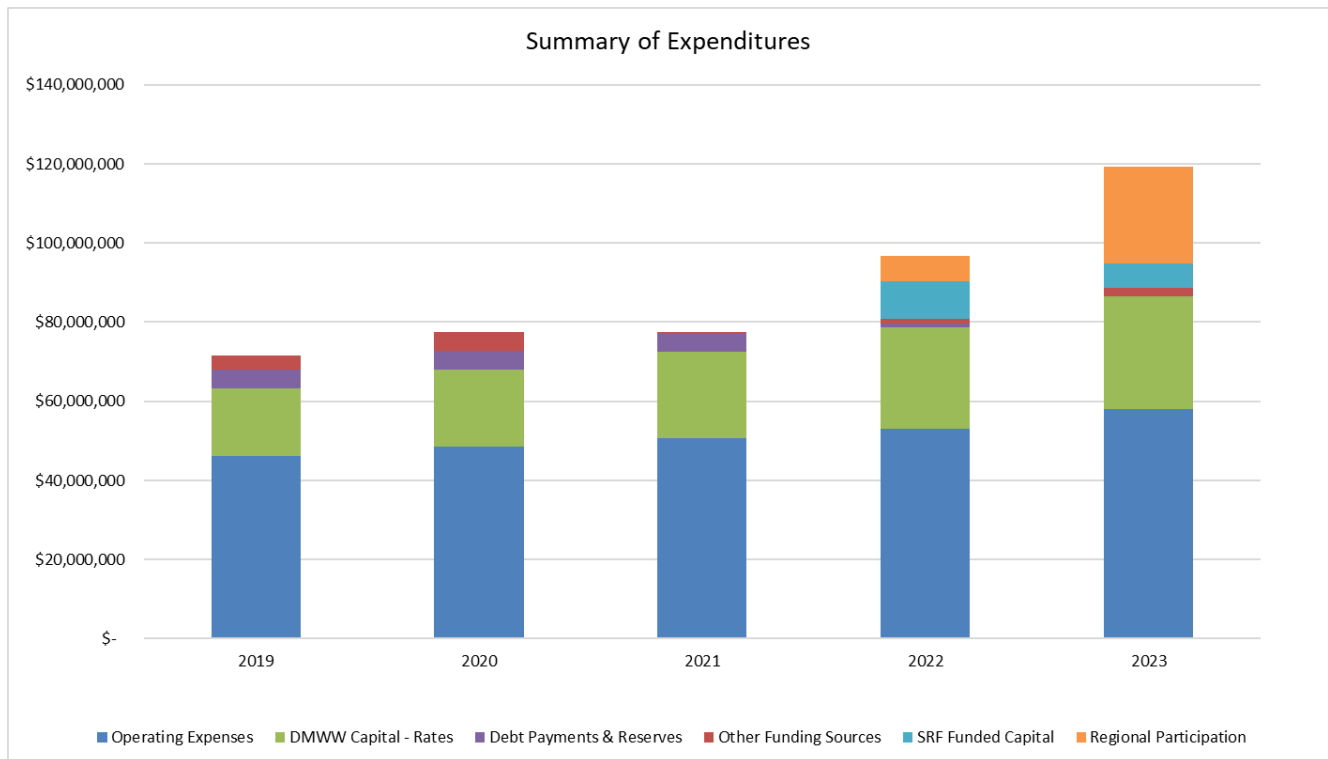
The following chart shows five years of budgeted cash expenditures. The categories of expenditures are: operating expenses, DMWW capital funded through rates, debt payments and increase in operating reserves, outside funded capital expenses, SRF funded capital expenses, capital expenses funded through regional participation, and other funding sources.

As expected, operating expenses and DMWW funded capital expenses have steadily increased through the five-year period.

Debt service payments were fairly constant from 2018-2021. The 2012A and 2012B bonds were paid off in 2021. There were minimal debt service payments budgeted in 2022 and as SRF-funded projects will still be under early construction in 2023, no debt service payments are budgeted in 2023.

The budget to increase operating reserves has been budgeted at \$500,000 for 2019-2022 and removed from the 2023 budget as operating reserves will be increased from prior year excess cash. Capital projects with other funding sources vary from year to year. These are primarily joint projects such as feeder mains and pump stations which will benefit those entities contributing the funds. Additionally, the 2023 budget includes \$2.0 million for expected funds received from ARPA through the City of Des Moines (\$1.5 million) and Ankeny for capacity in a feeder main (\$500,000).

Finally, the 2022 and 2023 budgets include capital projects to be funded by SRF borrowings and regional participation.



## FUTURE CAPITAL EXPENSES

There are significant dollars budgeted in 2023 for projects that will take more than a year to construct or implement. The chart below shows the expenses budgeted in 2023 along with an estimate of the dollars that will need to be budgeted in subsequent years to complete those projects. These projects have been included in the 5-year Capital Improvement Plan and are estimated in today's dollars. Certainly, as the design work is completed, the scope of work is identified, and the projects go through the formal bidding process, the amounts will be updated in future budget years.

Projects	2023 Budget	Future Years	Total Project Cost
<b>Funded with DMWW Debt (SRF)</b>			
	<i>in millions</i>		
Additional ASR	\$ 2.8	\$ 6.4	\$ 9.2
CO2 Feed at FDTP	1.6	1.1	2.7
DM River Well Field	1.9	35.8	37.7
<b>Total</b>	<b>\$ 6.3</b>	<b>\$ 43.3</b>	<b>\$ 49.6</b>
<b>Funded with Regional Participation</b>			
SWTP 10MGD Raw Water Expansion	\$ 7.1	\$ 47.2	\$ 54.3
SWTP 10MGD Plant Expansion	13.2	64.1	77.3
SWTP W Feeder Main Phase 3	3.8	7.1	10.9
Tenny-LP Moon Feeder Main	0.3	3.3	3.6
<b>Total</b>	<b>\$ 24.4</b>	<b>\$ 121.7</b>	<b>\$ 146.1</b>
<b>Funded by Rates</b>			
FDTP Distribution Bldg Modifications	\$ 0.7	\$ 0.7	\$ 1.4
FDTP Bulk PAC System	0.6	2.3	2.9
FDTP Filter Plant Rehabilitation	0.4	13.8	14.2
FDTP Lime Sludge Filter Press	1.1	1.1	2.2
FDTP Sanitary Sewer Lift Station	0.2	0.1	0.3
SCADA	1.6	10.5	12.1
WMR-DM	9.3	3.8	13.1
WMR-PC	3.1	2.9	6.0
<b>Total</b>	<b>\$ 17.0</b>	<b>\$ 35.2</b>	<b>\$ 52.2</b>

## **BUDGET BY DEPARTMENT**

The next page shows expenses by department sliced a little differently than the project/work plan method that the utility uses for financial reporting, cost of service, etc.

The table shows the Non-Labor expenses by department. These expenses include Materials/Inventory, Services, Utilities and are shown in the department that budgets for those expenses.

The table shows the Labor expenses for each department. This is based on which department the employee works in and does not take into consideration where that employee charges his/her time.



## 2023 Budget by Department

This table shows non-labor expenses by department - that is, the department where the materials, services, etc. are budgeted. It shows the labor expenses for each department - that is, the employee's department and doesn't take into consideration where that employee charges his/her time.

<b>NON LABOR EXPENSES</b>	<b>CEO</b>	<b>Customer Service</b>	<b>Engineering</b>	<b>Finance</b>	<b>Human Resources</b>	<b>Information Technology</b>	<b>OCOO</b>	<b>Water Distribution</b>	<b>Water Production</b>	<b>Unallocated Benefits</b>	<b>Total</b>
<b>OPERATING</b>											
Company-Wide	-	155,000	-	1,625,000	-	-	110,000	-	-	10,103,000	11,993,000
Inventory	1,500	101,000	8,000	82,870	1,500	400	18,550	539,290	10,278,201	-	11,031,311
Materials	121,570	120,200	25,730	481,250	90,820	79,100	171,425	915,800	1,119,800	-	3,125,695
Services	1,560,550	237,908	50,875	1,938,729	296,000	1,613,160	904,650	682,844	3,957,404	-	11,242,120
Utilities	-	-	-	-	-	288,735	10,400	-	3,139,100	-	3,438,235
<b>Total Operating</b>	<b>\$ 1,683,620</b>	<b>\$ 614,108</b>	<b>\$ 84,605</b>	<b>\$ 4,127,849</b>	<b>\$ 388,320</b>	<b>\$ 1,981,395</b>	<b>\$ 1,215,025</b>	<b>\$ 2,137,934</b>	<b>\$ 18,494,505</b>	<b>\$ 10,103,000</b>	<b>\$ 40,830,361</b>
<b>CAPITAL</b>	-	1,756,895	52,374,590	18,000	-	1,924,325	251,000	1,226,251	2,233,900	-	59,784,961
<b>LABOR EXPENSES (by department)</b>	420,722	2,723,981	2,421,501	1,072,389	383,843	1,135,920	1,009,336	4,923,641	5,896,056		19,987,389
<b>TOTAL</b>	<b>\$ 2,104,342</b>	<b>\$ 5,094,984</b>	<b>\$ 54,880,696</b>	<b>\$ 5,218,238</b>	<b>\$ 772,163</b>	<b>\$ 5,041,640</b>	<b>\$ 2,475,361</b>	<b>\$ 8,287,826</b>	<b>\$ 26,624,461</b>	<b>\$ 10,103,000</b>	<b>\$ 120,602,711</b>
Full-Time Equivalents	3.0	35.5	22.4	10.8	4.0	9.0	13.6	55.0	65.4		218.6

<b>Reconciliation to 2023 Budget Summary</b>	
Operating Expenses	58,140,955
Capital Expenses	62,461,756
<b>Total Expenses</b>	<b>120,602,711</b>

## LABOR and BENEFITS BUDGET

Labor and benefit costs makes up a significant portion of the utility’s budget.

Labor hours are budgeted in operating projects and capital projects. Many positions within the utility are primarily budgeted in operating projects as the work involved is in the general day-to-day operations of the utility. These positions include those in the administrative departments of Customer Service, Finance, Human Resources, Information Technology, OCOO, and OCEO. Within the operating departments of the utility, there are positions that support the operating activities – ongoing operations and maintenance of the utility. There are positions that generally support the capital efforts – design and construction of assets, replacement of assets, etc. And then there are positions that complete both types of functions. Therefore, while the overall headcount of the utility remains significantly consistent, the allocation between operating and capital hours varies from year to year.

Employees are budgeted with non-productive time – which is their time off through the year. This includes holidays, vacation, floating holidays, sick time, and on-call pay. The total amount budgeted for 2023 is \$3.0 million.

The non-labor piece of benefit expenses is budgeted at \$10.1 million and includes costs for insurance premiums, employer contributions to IPERS, deferred compensation, and social security taxes, contributions to the DMWW pension plan, and flex pay.

	2023 Proposed Budget	2022 Approved Budget	Percentage Change
<b>Labor</b>			
Operating	\$ 17,310,594	\$ 16,661,114	
Capital	2,676,795	2,190,016	
	<b>\$ 19,987,389</b>	<b>\$ 18,851,130</b>	6.0%
<b>Benefits</b>			
Insurance Premiums			
Employee Medical	\$ 3,914,000	\$ 3,851,100	
Retiree Medical	269,000	269,000	
Life/LTD/AD&D	61,600	59,800	
Retirement Expenses			
IPERS (9.44%)	1,865,900	1,777,600	
FICA taxes (7.65%)	1,512,100	1,440,500	
DMWW Pension	1,700,000	1,500,000	
Deferred Compensation	376,800	361,000	
Flex Dollars	378,100	378,100	
Car Allowance	25,500	25,500	
Total Benefits	<b>\$ 10,103,000</b>	<b>\$ 9,662,600</b>	4.6%
<i>% of total labor</i>	<i>50.5%</i>	<i>51.3%</i>	
<b>Total Labor &amp; Benefits</b>	<b>\$ 30,090,389</b>	<b>\$ 28,513,730</b>	5.5%

2023 Operating Work Plans Recommended for Funding  
Office of the CEO

Work Plan & Description	2023 Proposed Budget	2022 Approved Budget	Inc / (Dec)	
			\$	%
<b>Board Activities</b>				
Facilitation of Board-related activities in accordance with Code of Iowa requirements and to assure a well-informed Board of Trustees fully prepared to render policy decisions for the optimal benefit of the utility.	Labor	149,226	144,865	
	Non Labor	1,177,800	562,050	
<b>Provides for costs associated with regionalization efforts. Non-labor expense of \$1,130,000 was budgeted in 2023. The 2022 budget contained \$505,000 of non-labor expense for regionalization that will largely be unspent. Therefore, the money was budgeted again in 2023. This includes funds for consulting expenses, legal fees, and DMWW's share of the start-up costs for the new entity. Funding was added to the 2023 budget from prior year excess revenues to offset this non-recurring expense.</b>	Total	1,327,026	706,915	620,111 87.7%
<b>CEO Office Operations</b>				
Provides for the efficient administrative and leadership support for the Office of the CEO including staff appraisals, professional support for senior management on miscellaneous non-project issues, and communication/support with outside organizations and other utilities.	Labor	125,934	111,451	
	Non Labor	108,320	72,300	
<b>Training budget has been increased for leadership training. Includes new membership dues to US Water Alliance.</b>	Total	234,254	183,751	50,502 27.5%
<b>Business Strategy</b>				
Provides for the costs associated with the visionary leadership of the utility which includes supervisor meetings, senior management team meetings, and CEO walk-arounds.	Labor	122,176	103,159	
	Non Labor	66,800	74,770	
	Total	188,976	177,929	11,046 6.2%
<b>Project Management</b>				
Provides costs associated with managing the Energy Management System as well as operational projects as assigned by the CEO.	Labor	3,785	3,589	
	Non Labor	94,850	33,250	
<b>Consulting expenses have been increased to accurately reflect hours spent on energy management efforts.</b>	Total	98,635	36,839	61,796 167.7%
<b>Public Policy - Watershed Advocate</b>				
Includes activities to influence and monitor public policy and resource allocation decisions of state and federal legislative and regulatory initiatives which have a potential impact on the utility and/or the drinking water industry's ability to provide safe drinking water to consumers in a cost effective and sustainable manner.	Labor	69,998	72,614	
	Non Labor	235,850	227,100	
	Total	305,848	299,714	6,134 2.0%
<b>Total Office of the CEO</b>				
	Labor	471,118	435,678	
	Non Labor	1,683,620	969,470	
	Total	2,154,738	1,405,148	749,590 53.3%

2023 Operating Work Plans Recommended for Funding  
**Customer Service**

Work Plan & Description		2023 Proposed	2022 Approved	Inc / (Dec)	
		Budget	Budget	\$	%
<b>Customer Service Administration</b>					
Captures the general and administrative costs of customer service, including training.  <b>Non-labor is lower due to Voice of the Customer being done in 2022 and not budgeted in 2023. Training increased for leadership training.</b>	Labor	61,217	55,351		
	Non Labor	30,500	56,600		
	Total	91,717	111,951	(20,234)	-18.1%
<b>Customer Service Contact Center &amp; Data Quality</b>					
Costs to provide quality customer service to both external and internal customers. This includes providing walk-in, written and telephone customer service to the customers of DMWW, as well as our billing and collecting customers. Also encompasses account maintenance and collection activities.	Labor	976,915	973,507		
	Non Labor	223,268	228,568		
	Total	1,200,183	1,202,075	(1,891)	-0.2%
<b>Field Customer Service</b>					
Includes the costs of field service workers in completing work orders, repairing meters, administration of contracted plumbers, and repairing stop boxes.	Labor	1,228,434	1,195,075		
	Non Labor	139,500	189,900		
	Total	1,367,934	1,384,975	(17,041)	-1.2%
<b>Communications &amp; Public Relations</b>					
Provides for activities related to public relations, utility communications, website and social media support, graphics services, marketing, speaking engagements and treatment plant tours.	Labor	105,460	88,429		
	Non Labor	160,440	162,450		
	Total	265,900	250,879	15,021	6.0%
<b>New Business, Community &amp; Economic Development, Existing Relationships</b>					
Includes client contact with key wholesale and commercial/industrial customers and the development and execution of action plans as a result of identified new business opportunities. Includes the contribution to the Greater Des Moines Partnership.	Labor	17,637	16,146		
	Non Labor	60,400	60,400		
	Total	78,037	76,546	1,491	1.9%
<b>Total Customer Service</b>					
	Labor	2,389,663	2,328,507		
	Non Labor	614,108	697,918		
	Total	3,003,771	3,026,425	(22,653)	-0.7%

2023 Operating Work Plans Recommended for Funding  
**Engineering**

Work Plan & Description	2023 Proposed Budget	2022 Approved Budget	Inc / (Dec)	
			\$	%
<b>Engineering Management</b>				
Tracks operating costs including: communication with staff, training for Engineering staff, leadership and department meetings, safety chats, customer service, administrative support activities, attendance at city pre-app meetings, Engineering leadership support of the Water Works Park Foundation, and cell tower administration.				
Labor	303,448	318,495		
Non Labor	44,605	37,310		
Total	348,053	355,805	(7,753)	-2.2%
<b>Engineering Studies</b>				
Covers the cost to conduct engineering studies to determine the feasibility of future capital projects as well as monitoring efforts around DMWW facilities.				
Labor	30,416	58,220		
Non Labor	40,000	25,000		
Total	70,416	83,220	(12,804)	-15.4%
<b>Total Engineering</b>				
Labor	333,864	376,715		
Non Labor	84,605	62,310		
Total	418,469	439,025	(20,557)	-4.7%

2023 Operating Work Plans Recommended for Funding  
**Finance**

Work Plan & Description		2023 Proposed Budget	2022 Approved Budget	Inc / (Dec) \$	%
<b>Finance Administration</b>					
Summarizes the administrative costs for the Finance department including clerical support, performance management, and training.	Labor	51,672	48,076		
	Non Labor	47,250	31,290		
<b>Training budget has increased for leadership training.</b>	Total	98,922	79,366	19,556	24.6%
<b>Financial Services</b>					
Summarizes the costs related to the financial services performed throughout, and for the benefit of, the entire utility. Services include, but are not limited to: payroll, accounts payable, financial reporting, banking, annual audit, cost of service study, etc. This work plan also includes the corporate insurance premiums and the PILOT to City of Des Moines.	Labor	394,537	392,773		
	Non Labor	3,200,029	1,780,100		
<b>The PILOT of \$1.3 million in 2023 has been moved from the OCOO department into this work plan in the Finance department. Premium expense for corporate insurance is budgeted to increase \$100,000 in 2023 based on initial discussions with our insurance broker. Workers' Compensation claims' expense has been reduced by \$50,000 based on trending in the last few years. Consulting expenses of \$70,000 are included in the 2023 budget for a rate study focusing on affordability and the retail rate structure.</b>	Total	3,594,566	2,172,873	1,421,692	65.4%
<b>Payment Processing</b>					
Summarizes the costs to perform accounts receivable billing, collection, and balancing functions for the utility.	Labor	67,344	74,897		
	Non Labor	219,350	183,450		
<b>Fees for processing electronic payments are budgeted to increase by \$35,000.</b>	Total	286,694	258,347	28,347	11.0%
<b>Mail Processing</b>					
Summarizes the costs to prepare and mail customer bills.	Labor	49,646	46,901		
	Non Labor	556,470	608,150		
<b>Postage expenses are declining by \$45,000 due to more customers switching to receiving e-statements.</b>	Total	606,116	655,051	(48,935)	-7.5%
<b>Purchasing &amp; Central Stores</b>					
Provides support to our internal customers for purchasing, warehousing and delivering of product in a cost effective and timely manner.	Labor	221,420	206,532		
	Non Labor	4,750	7,350		
	Total	226,170	213,882	12,288	5.7%
<b>Greater Des Moines Botanical Gardens</b>					
Summarizes the in-kind services provided to the GDMBG according to our agreement.	Labor	-	18,571		
	Non Labor	100,000	181,429		
<b>The level of contribution for 2023 is \$100,000.</b>	Total	100,000	200,000	(100,000)	-50.0%
<b>Total Finance</b>					
	Labor	784,619	787,751		
	Non Labor	4,127,849	2,791,769		
	Total	4,912,468	3,579,520	1,332,948	37.2%

2023 Operating Work Plans Recommended for Funding  
**Human Resources**

Work Plan & Description		2023 Proposed Budget	2022 Approved Budget	Inc / (Dec)	
				\$	%
<b>HR Administration</b>					
Captures the general clerical and administrative costs of the Human Resources department.	Labor	84,666	60,991		
<b>Includes additional labor hours for full-time HR admin position. This has been converted from 1/2 time assistant (shared with CEO's Office) to full time. Training budget has been increased for leadership training.</b>	Non Labor	31,720	18,500		
	Total	116,386	79,491	36,895	46.4%
<b>Employee Relations</b>					
Includes costs for the use of focus groups, labor/management committees, recognition initiatives, the Spigot employee newsletter, employee meetings, one-on-one issue identification and resolution, formal grievance resolution, and administration of DMWW's drug-free workplace program.	Labor	154,381	149,451		
	Non Labor	107,800	44,500		
<b>Increased budget in 2023 for recognition and employee activities.</b>	Total	262,181	193,951	68,230	35.2%
<b>Employment</b>					
Provides resources for recruiting and selecting quality new employees for vacant positions. Equal Employment Opportunity and affirmative action compliance is also assured.	Labor	24,703	26,811		
	Non Labor	110,200	67,500		
<b>The 2023 budget includes increased costs for recruiting as it's becoming more difficult to find qualified candidates for specialty jobs. The budget pertaining to diversity initiatives has also been increased.</b>	Total	134,903	94,311	40,592	43.0%
<b>Compensation &amp; Benefits</b>					
Includes costs associated with maintaining and enhancing a competitive, cost-effective and compliant employee compensation and benefits program.	Labor	82,666	81,737		
	Non Labor	60,600	70,700		
	Total	143,266	152,437	(9,171)	-6.0%
<b>Employee Learning &amp; Growth</b>					
Provides for the administration and coordination of utility-wide employee training, continual learning, career planning, and work-life balance initiatives.	Labor	3,723	3,544		
	Non Labor	78,000	49,850		
<b>Increase relates to additional utility-wide training and for tuition reimbursement for employees pursuing additional job-related education.</b>	Total	81,723	53,394	28,330	53.1%
<b>Total Human Resources</b>					
	Labor	350,138	322,532		
	Non Labor	388,320	251,050		
	Total	738,458	573,582	164,876	28.7%

2023 Operating Work Plans Recommended for Funding  
**Information Technology**

Work Plan & Description		2023 Proposed Budget	2022 Approved Budget	Inc / (Dec)	
				\$	%
<b>I.T. Administration</b>					
Captures the general and administrative costs of the I.T. department including: invoice processing, budget tracking, performance management and training.					
	Labor	149,925	125,875		
	Non Labor	72,400	55,600		
<b>Training budget has been increased for leadership training. Additional labor hours for technical training.</b>	Total	222,325	181,475	40,850	22.5%
<b>Technical Services</b>					
Provides technical support for all hardware and software components used for client computing. This includes file serving, printing, PC software and hardware maintenance, computer operations, helpdesk support, PC upgrades and patches. Additionally, IT computer operations are supported, including activities around nightly processing, reporting, and printing.					
	Labor	55,653	123,145		
	Non Labor	215,300	167,300		
<b>Labor hours have decreased due to realignment of IT staff to focus on technical issues relating to cybersecurity. Non-labor is up due to budgeting for a consultant to assist with PC and laptop replacements.</b>	Total	270,953	290,445	(19,492)	-6.7%
<b>I.T. Development</b>					
Provides technical support for all applications and software components used for corporate computing. This includes application support and application development.					
	Labor	45,712	28,959		
	Non Labor	160,000	40,000		
<b>Increased consulting and internal labor costs for application development. This includes upgrades and enhancements to CIS, Clevest, and other essential systems used at the utility.</b>	Total	205,712	68,959	136,753	198.3%
<b>System Services</b>					
Provides technical support for all network hardware, software, and components used for utility computing. This includes all networking, file serving, printing, disaster recovery, security, backups, internet connectivity, upgrades, and patches.					
	Labor	189,169	167,665		
	Non Labor	717,745	672,605		
<b>Increases relate to cyber-security and the transition of physical security related to cameras and access card readers from the OCOO department to I.T.</b>	Total	906,914	840,270	66,644	7.9%
<b>I.T. Services</b>					
Provides resources to support all facets of software and hardware as they relate to core I.T. services including in-house software applications, purchased applications, support, reporting, and technical consulting.					
	Labor	376,563	403,744		
	Non Labor	815,950	827,096		
	Total	1,192,513	1,230,840	(38,327)	-3.1%
<b>Total I.T.</b>					
	Labor	817,021	849,387		
	Non Labor	1,981,395	1,762,601		
	Total	2,798,416	2,611,988	186,428	7.1%



2023 Operating Work Plans Recommended for Funding  
Office of the Chief Operating Officer

Work Plan & Description		2023 Proposed Budget	2022 Approved Budget	Inc / (Dec) \$	%
<b>OCOO Administration</b>					
Administrative costs for the Office of the Chief Operating Officer including employee meetings, performance management, and training.	Labor	68,628	64,882		
	Non Labor	17,200	4,900		
<b>Training budget has been increased for leadership training.</b>	Total	85,828	69,782	16,046	23.0%
<b>Risk &amp; Incident Management</b>					
Costs including park police, contract security, access control, surveillance, emergency operations, and flood protective measures. Also includes costs associated with liability claims.	Labor	108,707	113,687		
	Non Labor	817,300	708,500		
<b>Contracted security guard services budgeted to increase \$100,000. Consulting expenses of \$20,000 has been added for review of revised 100-year storm elevations compared to DMWW levees.</b>	Total	926,007	822,187	103,820	12.6%
<b>Grounds Maintenance</b>					
Management and maintenance of DMWW properties as well as properties maintained under 28E agreements with the City of Des Moines. Includes labor and materials to administer park events that are held in Water Works Park.	Labor	514,876	512,004		
	Non Labor	288,150	1,614,182		
<b>PILOT of \$1.3 million has been moved to Finance department.</b>	Total	803,026	2,126,186	(1,323,160)	-62.2%
<b>Safety</b>					
Captures the general and administrative costs of the safety program - which includes labor, outside consultants to provide training, and safety materials and supplies.	Labor	139,253	122,835		
	Non Labor	92,375	108,250		
	Total	231,628	231,085	543	0.2%
<b>Total Office of the COO</b>					
	Labor	831,464	813,408		
	Non Labor	1,215,025	2,435,832		
	Total	2,046,489	3,249,240	(1,202,751)	-37.0%

2023 Operating Work Plans Recommended for Funding  
**Water Distribution**

Work Plan & Description		2023 Proposed Budget	2022 Approved Budget	Inc / (Dec) \$	%
<b>Distribution Administration (Distribution Support)</b>					
Administrative costs for the Distribution department including clerical support, employee meetings, performance management, and training.	Labor	185,644	180,154		
	Non Labor	46,350	33,840		
<b>Training budget has been increased for leadership training.</b>	Total	231,994	213,994	17,999	8.4%
<b>Des Moines Field Support</b>					
Tasks required to support distribution system maintenance and utility locates; including work order processing, twenty-four hour dispatch, record updates, database maintenance, and customer contact.	Labor	495,313	525,569		
	Non Labor	56,650	50,557		
	Total	551,963	576,126	(24,163)	-4.2%
<b>Distribution System Maintenance &amp; Repair</b>					
Costs for distribution system maintenance and repair tasks which include repairing broken water mains, hydrant and valve maintenance and repair, flushing dead end water mains, adjusting valve boxes to grade for city paving projects, and maintaining cathodic protection systems.	Labor	1,794,495	1,628,291		
	Non Labor	1,301,884	1,244,448		
<b>Non-labor expenses up due to increased costs of materials, asphalt, and concrete for main breaks. Increased labor due to additional staff added to 2023 budget to deploy and maintain barricades. The cost of barricade rental has decreased by a similar amount.</b>	Total	3,096,379	2,872,739	223,639	7.8%
<b>Leak Detection and Locating</b>					
Costs for leak detection, locating, customer distribution services (complaints/inquiries), and feeder signage maintenance.	Labor	708,171	670,038		
	Non Labor	48,050	41,700		
<b>Average cost of stop box repairs, done by external contractor, has increased in the 2023 budget. Additionally, materials used for installation and removal of service connections (taps) has increased.</b>	Total	756,221	711,738	44,484	6.2%
<b>Distribution Billed Services</b>					
Costs for billed services including making taps for new service lines, providing contracted leak location services, repairing damaged facilities, and repairing inoperable service valves.	Labor	206,742	208,680		
	Non Labor	614,400	482,510		
	Total	821,142	691,190	129,952	18.8%
<b>Distribution Water Quality</b>					
Maintain the quality of the water in the distribution system through administration of the cross-connection control program and the implementation of the initiatives that will maintain water quality and response to water quality complaints.	Labor	198,878	168,185		
	Non Labor	70,600	51,850		
<b>Additional labor hours added for backflow administrative support.</b>	Total	269,478	220,035	49,442	22.5%
<b>Total Water Distribution</b>					
	Labor	3,589,243	3,380,918		
	Non Labor	2,137,934	1,904,905		
	Total	5,727,177	5,285,823	441,353	8.3%

2023 Operating Work Plans Recommended for Funding  
**Water Production (page 1 of 3)**

Work Plan & Description		2023 Proposed Budget	2022 Approved Budget	Inc / (Dec) \$	%
<b>Water Production Administration</b>					
Administrative and support costs for the Water Production department including clerical support, employee meetings, performance management, and training.	Labor	330,769	306,361		
	Non Labor	196,400	85,200		
<b>Includes \$100,000 in consulting services for WP organization assessment. Training budget has been increased for leadership training.</b>	Total	527,169	391,561	135,608	34.6%
<b>Water Production Operations</b>					
To provide a safe and reliable drinking water supply to the customers of Des Moines Water Works in sufficient quantities and at adequate pressures to meet their needs.	Labor	1,037,299	966,855		
	Non Labor	152,300	117,600		
<b>Increased costs for uniforms &amp; clothing, much of which is personal protective equipment. Labor hours increased for monthly operator meetings.</b>	Total	1,189,599	1,084,455	105,144	9.7%
<b>Fleur Plant Chemicals &amp; Energy</b>					
Provide the water treatment chemicals and energy necessary to insure the production of safe, high quality water in sufficient quantities to meet our customers' needs. Provides funding for the removal of lime softening residuals.	Labor	49,977	20,707		
	Non Labor	8,853,155	6,248,020		
<b>2023 budget includes increase of \$2.3 million for chemicals. Most of this is due to price increases from chemical vendors. Higher pumpage at FDTP is causing increased chemical usage but to much less extent than increased chemical prices. Residual removal expenses are up \$275,000 over 2022 budget.</b>	Total	8,903,132	6,268,728	2,634,405	42.0%
<b>McMullen Plant Chemicals &amp; Energy</b>					
Provide the water treatment chemicals and energy necessary to insure the production of safe, high quality water in sufficient quantities to meet our customers' needs. Provides funding for the removal of lime softening residuals.	Labor	113,206	90,970		
	Non Labor	3,118,045	4,263,829		
<b>Residual removal expenses are down \$1.6 million due to minimal movement of residuals. One lagoon is being filled and the other is drying. There are only 31,000 tons of residual material budgeted to be removed from the drying area to the final disposal site. Chemical expenses are up \$413,000 due to increased prices.</b>	Total	3,231,250	4,354,799	(1,123,549)	-25.8%
<b>SWTP Chemicals &amp; Energy</b>					
Provide the water treatment chemicals and energy necessary to insure the production of safe, high quality water in sufficient quantities to meet our customers' needs.	Labor	125,629	104,331		
	Non Labor	1,479,417	959,207		
<b>Chemical expenses are up \$485,000 due to large increases in chemical costs.</b>	Total	1,605,045	1,063,538	541,507	50.9%
<b>Fleur Maintenance</b>					
Includes all maintenance and repair expenses of the Fleur Drive treatment plant, Des Moines River intake/pump station, Fleur electric substation, flooding station, and pressed sludge lagoons.	Labor	859,586	918,377		
	Non Labor	1,034,047	1,018,830		
	Total	1,893,633	1,937,207	(43,574)	-2.2%
<b>McMullen Maintenance</b>					
Includes all maintenance and repair expenses of the McMullen Treatment Plant, radial collector wells, Crystal Lake, and ASR.	Labor	285,559	251,286		
	Non Labor	297,285	303,840		
	Total	582,844	555,126	27,719	5.0%
<b>SWTP Maintenance</b>					
Includes mechanical and electrical maintenance for the Saylorville Water Treatment Plant.	Labor	231,932	203,402		
	Non Labor	289,746	299,485		
	Total	521,678	502,887	18,791	3.7%

2023 Operating Work Plans Recommended for Funding  
**Water Production (page 2 of 3)**

Work Plan & Description		2023 Proposed Budget	2022 Approved Budget	Inc / (Dec)	
				\$	%
<b>Water Production Maintenance Oversight</b>					
Provides oversight efforts for the daily planning of maintenance in Water Production. Also encompasses the efforts to maintain the CMMS system.					
	Labor	220,992	217,923		
	Non Labor	-	-		
	<b>Total</b>	<b>220,992</b>	<b>217,923</b>	<b>3,068</b>	<b>1.4%</b>
<b>Louise P. Moon Pumping Maintenance</b>					
Provides for maintenance of the Louise P. Moon Storage and Pumping Facility, the Waukee Booster Station, the LPM ASR facility, and Waukee/Xenia Booster station which will ensure water is provided in acceptable quantities at desirable pressures.					
	Labor	92,236	75,632		
	Non Labor	489,100	465,120		
	<b>Total</b>	<b>581,336</b>	<b>540,752</b>	<b>40,585</b>	<b>7.5%</b>
<b>Increased costs for operations and maintenance of LP Moon. This is offset by additional revenue.</b>					
<b>Polk County Storage &amp; Pumping</b>					
Provides for maintenance of the Polk County Pumping Station which will ensure water is provided to our Ankeny and Polk County customers in acceptable quantities at desirable pressures.					
	Labor	33,485	35,432		
	Non Labor	127,500	116,600		
	<b>Total</b>	<b>160,985</b>	<b>152,032</b>	<b>8,953</b>	<b>5.9%</b>
<b>Des Moines Remote Storage</b>					
Provides for the maintenance of remote facilities within the cities of Des Moines and Pleasant Hill, the Norwalk booster station, Polk City booster station, Southeast Polk/Bondurant chloramination facility, sites in Runnells for water and waste water operations, Army Post Road ASR facility, and the new Joint Maffitt Lake Booster Station.					
	Labor	234,302	209,062		
	Non Labor	571,300	532,620		
	<b>Total</b>	<b>805,602</b>	<b>741,682</b>	<b>63,920</b>	<b>8.6%</b>
<b>Increased costs for operations and maintenance of several remote sites. This is partially offset by additional revenue.</b>					
<b>Lab Operations</b>					
Routine, non-investigative testing in the chemistry laboratory related to regulatory compliance and assessment of treatment plant processes.					
	Labor	390,140	382,441		
	Non Labor	267,000	233,000		
	<b>Total</b>	<b>657,140</b>	<b>615,441</b>	<b>41,699</b>	<b>6.8%</b>
<b>Materials used for sample collection and routine analytical testing for assessing plant processes and the distribution system have increased. The 2023 budget includes costs for lab certification which is done every other year.</b>					
<b>Water Quality Research</b>					
Investigative testing concerning water quality and plant process improvements.					
	Labor	64,178	63,200		
	Non Labor	106,500	88,000		
	<b>Total</b>	<b>170,678</b>	<b>151,200</b>	<b>19,478</b>	<b>12.9%</b>
<b>Increase in non-labor expenses relates to services provided for PFAS analysis.</b>					

2023 Operating Work Plans Recommended for Funding  
**Water Production (page 3 of 3)**

Work Plan & Description		2023 Proposed Budget	2022 Approved Budget	Inc / (Dec)	
				\$	%
<b>Radio Communication Equipment</b>					
Maintenance and supervision expenses of the trunked radio system and telemetry system.	Labor	17,464	14,778		
	Non Labor	35,600	34,500		
	<u>Total</u>	53,064	49,278	3,787	7.7%
<b>HVAC Operations</b>					
To operate, maintain, and repair all heating, air conditioning, and ventilation equipment for all DMWW facilities.	Labor	25,077	68,583		
	Non Labor	74,500	69,956		
	<u>Total</u>	99,577	138,539	(38,962)	-28.1%
<b>Facility Maintenance</b>					
Captures the general and administrative costs of building upkeep and general facility maintenance.	Labor	173,761	166,429		
	Non Labor	579,280	411,960		
<b>Increases expenses have been budgeted for higher costs for contracted facility cleaning and additional expenses for building maintenance &amp; repairs.</b>	<u>Total</u>	753,041	578,389	174,652	30.2%
<b>Vehicle Maintenance</b>					
Costs for maintaining the vehicles and equipment for our internal users. It also provides support to fabricating and repairing tools and parts for our customers.	Labor	482,827	463,505		
	Non Labor	823,330	599,010		
<b>Gasoline and diesel fuel costs have increased \$148,000 from the 2022 budget. Expenses for vehicle maintenance &amp; repairs have increased by \$78,000. Labor hours have increased due to converting part-time service worker to full time lube technician.</b>	<u>Total</u>	1,306,157	1,062,515	243,642	22.9%
<b>Total Water Production</b>					
	Labor	4,768,418	4,559,274		
	Non Labor	18,494,505	15,846,778		
	<u>Total</u>	23,262,923	20,406,051	2,856,871	14.0%

## 2023 Operating Work Plans Recommended for Funding

Summary Operating Expenses	2023 Proposed Budget	2022 Approved Budget	Inc / (Dec)
<b>Total by Department</b>			
CEO	2,154,738	1,405,148	749,590
Customer Service	3,003,771	3,026,425	(22,653)
Engineering	418,469	439,025	(20,557)
Finance	4,912,468	3,579,520	1,332,948
HR	738,458	573,582	164,876
IT	2,798,416	2,611,988	186,428
Office of the COO	2,046,489	3,249,240	(1,202,751)
Water Distribution	5,727,177	5,285,823	441,353
Water Production	23,262,923	20,406,051	2,856,871
Utility Benefits	13,078,046	12,469,544	608,502
Includes non-productive time (vacation, sick, holiday) and benefits (health insurance, deferred comp match, pension, IPERS, FICA, retiree payouts in 2022, etc.)			
Total Recommended Operating Budget	58,140,955	53,046,346	5,094,608 9.6%

2023 CAPITAL Work Plans Recommended for Funding

Work Plan & Description	2023 Proposed Budget	2022 Approved Budget	Inc / (Dec) \$	%
<b>Field Customer Service Capital</b>				
Provides capital materials (meters & MTUs) needed to update and keep our current meter reading system updated and provide accurate meter reads needed for billing. We will also continue to work towards completion of our meter change-out program of meters in service for over 17 years.				
Labor	-	-		
Non Labor	1,756,895	1,426,682		
Total	1,756,895	1,426,682	330,212	23.1%
<b>Facility Management</b>				
Includes costs of providing rehabilitation and enhancements as needed to extend the service life and improve the function of buildings and structures owned by Des Moines Water Works.				
Labor	159,072	129,185		
Non Labor	3,700,150	4,979,500		
Total	3,859,222	5,108,685	(1,249,463)	-24.5%
Projects budgeted include:				
Hazen structural improvements	875,821			
Replacement of truck scale at MWTP	725,840			
Modifications to Distribution Building/Ramp	683,759			
Ongoing projects for safety, building improvements, roof replacements	511,619			
Replacing storm/sanitary sewer drain piping at FDTP Pump Station	231,623			
HVAC enhancements at FDTP Pump Station	215,415			
Eyewash/showers/tempering	179,602			
Additional costs for grounds shop	131,491			
Parking lot paving at FDTP - near nitrate facility & pump station	127,585			
	<u>3,682,755</u>			
<b>Fleur Drive Treatment Plant</b>				
Includes costs of providing rehabilitation and enhancements as needed to extend the service life and improve the function of buildings and structures at the Fleur Drive Treatment Plant.				
Labor	274,345	270,963		
Non Labor	8,671,240	7,199,680		
Total	8,945,585	7,470,643	1,474,942	19.7%
Projects budgeted include:				
DM River well field	1,889,500	Funded by DMWW debt (SRF)		
CO2 feed system	1,631,304	Funded by DMWW debt (SRF)		
SCADA network improvements	1,571,523	\$976k carried over from 2022 bgt		
Lime sludge filter presses	1,068,562			
Treatment basin rechaining (ongoing)	639,802			
PAC facility upgrade	594,467	\$293k carried over from 2022 bgt		
Filter plant rehabilitation	444,527			
Rebuild west high lift pumps	336,557			
	<u>8,176,242</u>			
<b>McMullen Treatment Plant</b>				
Includes costs of providing rehabilitation and enhancements as needed to extend the service life and improve the function of buildings and structures at the McMullen Treatment Plant.				
Labor	24,043	102,866		
Non Labor	765,500	1,524,000		
Total	789,543	1,626,866	(837,323)	-51.5%
Projects budgeted include:				
Rehabilitation of collector wells	677,998			
Well isolation valves	111,545			
	<u>789,543</u>			

2023 CAPITAL Work Plans Recommended for Funding

Work Plan & Description		2023 Proposed Budget	2022 Approved Budget	Inc / (Dec) \$	%
<b>Saylorville Treatment Plant</b>					
Includes costs of providing rehabilitation and enhancements as needed to extend the service life and improve the function of buildings and structures at the Saylorville Treatment Plant.					
	Labor	141,290	104,029		
	Non Labor	20,386,150	6,309,500		
	Total	20,527,440	6,413,529	14,113,911	220.1%
Projects budgeted include:					
Expansion of raw water		7,066,425		Funded through regional participation	
10 MGD expansion of SWTP		13,159,708		Funded through regional participation	
RO membrane replacement		213,893			
		<u>20,440,026</u>			
<b>New ASR Well</b>					
Captures costs to construct a new ASR well at Polk County Pump Station.					
	Labor	40,682	114,076		
	Non Labor	2,710,200	5,791,100		
This project to be funded by DMWW debt (SRF)	Total	2,750,882	5,905,176	(3,154,294)	-
<b>Water Main Replacement</b>					
Captures costs of maintaining and upgrading the water distribution system by replacing mains that have a history of breaks, will result in improved water flow, or that need to be relocated to accommodate city, county, or state construction projects.					
	Labor	960,171	553,563		
	Non Labor	11,958,000	10,341,000		
	Total	12,918,171	10,894,563	2,023,608	18.6%
Water main replacement by service area:					
Des Moines		9,452,241			
Polk County		3,137,710			
Pleasant Hill		300,000			
Windsor Heights		28,221			
		<u>12,918,172</u>			
<b>Core Network Feeder Mains</b>					
Projects here typically include the transmission, storage, and pumping that serve as core network facilities. Typically these are significant enhancements/additions that serve, or effectively stand to serve, the broader regional water system needs.					
	Labor	25,322	31,160		
	Non Labor	4,140,350	884,400		
	Total	4,165,672	915,560	3,250,112	-
Projects budgeted include:					
SWTP west feeder main phase 3		3,803,416		Funded through regional participation	
Army Post-Maffitt-FD remote valve		362,256		Funded through regional participation	
		<u>4,165,672</u>			
<b>Development Plan Review</b>					
Provides a mechanism to track the time spent by Engineering staff to review development of large tap plans, inspect construction, and update records for new mains and services.					
	Labor	241,784	238,948		
	Non Labor	43,000	41,191		
	Total	284,784	280,139	4,645	1.7%
<b>Bondurant Feeder Main &amp; Pump Station</b>					
This work plan consists of installing a new feeder mains (suction & discharge) and a booster pumping station with 4.5 MGD capacity to serve Bondurant and Polk County rural area. This project is ~70% funded by Bondurant.					
	Labor	-	15,021		
	Non Labor	-	1,200,150		
	Total	-	1,215,171	(1,215,171)	-



2023 CAPITAL Work Plans Recommended for Funding

Work Plan & Description	2023 Proposed Budget	2022 Approved Budget	Inc / (Dec) \$	%
<b>I.T. Capital</b>				
Provides funding for investments into hardware and software infrastructures to ensure that a reliable, secure, capable, fully functional computing environment is available to our users and customers. The 2023 budget includes continued funds for ongoing replacement of hardware and software, Microsoft licensing, and cyber-security. Additionally, there are three initiatives budgeted in 2023 for upgrades and software replacement.	Labor Non Labor Total	216,425 1,924,325 2,140,750	92,262 1,293,500 1,385,762	754,989 54.5%
Projects budgeted include:				
Financial system replacement (2nd year, total project cost of \$2.2 million)		1,142,023		
Replacement of Cradlepoints & Sierra devices in company vehicles		209,688		
Replacement of LabLite (database for laboratory results)		230,340		
		1,582,051		
<b>Water Distribution System Improvements</b>				
Summarized costs for distribution system upgrades such as tying in dead end mains and installation of new hydrants and valves. Replacement tools and equipment are also included in this work plan.	Labor Non Labor Total	506,022 1,226,251 1,732,273	462,008 925,492 1,387,500	344,774 24.8%
<b>Grounds Capital</b>				
Provides for capital replacement for specific grounds and park maintenance capital. The 2023 budget includes costs for resurfacing roads at the arboretum and east of the main office as well as rekeying the treatment plants and remotes sites.	Labor Non Labor Total	473 251,000 251,473	- 34,000 34,000	217,473
<b>Water Production Plant Reinvestment</b>				
Provides necessary capital for replacement and/or improvements of existing equipment and the addition of new equipment to ensure the effective operation of the utility and its processes.	Labor Non Labor Total	79,609 1,117,000 1,196,609	68,297 900,000 968,297	228,311 23.6%
<b>Vehicle Replacement</b>				
Captures the cost of replacing vehicles and related equipment.	Labor Non Labor Total	7,558 1,116,900 1,124,458	7,638 892,000 899,638	224,820 25.0%
<b>Finance Capital</b>				
Provides for remodeling project in Central Stores.	Labor Non Labor Total	- 18,000 18,000	- - -	18,000 -
<b>Total Recommended Capital Budget</b>		62,461,756	45,932,211	16,529,545 36.0%
<b>Summary by Expense Classification</b>				
Total Labor		2,676,795	2,190,016	486,779
Total Non Labor		59,784,961	43,742,195	16,042,766
<b>Summary by Funding Source</b>				
Carryover		1,269,980	3,092,000	
Funded by Outside Entities		2,103,600	1,252,343	
Funded by DMWW Debt (SRF Loans)		6,271,686	9,387,608	
Funded through Regional Participation		24,391,805	6,601,799	
Funded by Utility Revenue		28,424,685	25,598,461	

# **DMWW Budget Process & Timeline**

## **April – May**

- Finance prepares budget templates for 2023 budget entry.
- Finance provides budget training/refresher, as needed.

## **June – July**

- Departmental teams prepare project/work plan budgets which include labor hours by position (which results in labor dollars) and non-labor resources requested. A work plan is a grouping of like projects. For example:
  - Department: Water Production
  - Work Plan: Fleur Maintenance
  - Projects: Raw Intake/Pumping, Basins, Chemical Systems, Filter Plant, etc.
- Senior managers review the work plans of their department.

## **August-September**

- Review of all work plans by “review team” which consists of CEO/GM, Chief Operating Officer, Chief Financial Officer, and Controller.
- Initial review session with department senior manager and the review team
- Teams revise work plans based on feedback from their review session.
- Finance staff compiles work plans into utility budget.

## **September**

- Senior management team meets to balance available resources with budget requests.

## **October**

- Finance staff presents budget for discussion and review at Board Committee meetings.
- Board reviews and discusses budget at October meeting, sets public hearing for November board meeting.

## **November**

- Public hearing is held, and Board approves budget at November meeting.

## **December**

- Budget documents are forwarded to Des Moines City Clerk for receipt and file by City Council.



**AGENDA ITEM FORM**

**SUBJECT: 2023 Water Treatment Chemicals**

**SUMMARY:**

Below is the bid analysis and purchase recommendations for the 2023 water treatment chemical supplies, presented by Julia Johnston, Purchasing/Central Stores Supervisor. Only one bid was received for soda ash due to the extreme tight market both in the United States and Europe. The price for soda ash is valid for first quarter only and may be subject to increase after March.

**FISCAL IMPACT:**

Based on estimated quantities of use, total cost of water treatment chemicals for 2023 will be \$ 8,815,332.54. Chemicals in this recommendation include requirements for the Fleur, McMullen and Saylorville Water Treatment Plants. These bids will result in a significant increase due primarily to rising transportation and raw material cost.




**RECOMMENDED ACTION:**

Award the 2023 chemical contracts to bidders as follows:

Chemical	Low Responsible Bidder	Per	2023 cost	2022 cost
Antiscalent	Avista	lb.	\$ 1.9500	\$ 1.4500
Aluminum Sulfate - Ground	Chemtrade	lb.	\$ 0.3875	\$ 0.3450
Activated Carbon - (FDWTP)	Calgon Approved by Board July	lb.	\$ 1.6000	\$ 0.9400
Activated Carbon - (MWTP)	Calgon Approved by Board July	lb.	\$ 1.7000	\$ 1.0700
Carbon Dioxide - Liquid	Air Products	lb.	\$ 0.05800	\$ 0.04850
Citric Acid	Thorton Musso	lb.	\$ 1.7500	\$ 1.9500
Ferric Chloride	Kemira	lb.	\$ 0.2790	\$ 0.1730
Hydrofluosilicic Acid	Dubois	lb.	\$ 0.2770	\$ 0.23550
Hydrochloric Acid	Acco	gl	\$ 4.12727	\$ 2.9800
Aluminum Chloride Hydroxide Sulfate IC1179P	Suez	lb.	\$ 0.8100	\$ 0.7200
Polyphosphate	Carus	lb.	\$ 1.3000	\$ 1.0300
Soda Ash	Dubois Valid first quarter	lb.	\$ 0.2730	\$ 0.1600
Solar Salt - per ton	Step Saver	ton	\$ 235.00	\$ 201.00
Sodium Hypochlorite	DPC	gal.	\$ 1.9840	\$ 1.2500
Sodium Hydroxide 30%	Univar	gal.	\$ 2.2663	\$ 1.6831
Sodium Bisulfite	Harcros	lb.	\$ 0.1930	\$ 0.1340
Sodium Permaganate	Carus	lb.	\$ 1.700	\$ 1.0600
Lime - Quick Pebble (FDWTP and MWTP)	Mississippi Lime Approved Oct	ton	\$ 215.50	\$ 184.50

**BOARD REQUIRED ACTION:**

Motion to award the 2023 contracts for water treatment chemical supplies to the above bidders.

 Julia Johnston Purchasing/Central Stores Supervisor (date) <u>11/17/22</u>	 Nathan W. Casey, P.E. Director of Water Production (date) <u>11/15/22</u>	 Ted Corrigan, P.E. CEO and General Manager (date) <u>11/18/22</u>
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## Chemical Price Change Summary Report 2022 to 2023

Plant	Chemical	New Price	Old Price	Percentage Change	Estimated Usage	Unit of Measure	2023 Total	2023 Vendor
Fleur	Activated Carbon	\$ 1.60000	\$ 0.94000	70.21%	900,720	Pounds	\$1,441,152.00	Calgon
Fleur	Aluminum Sulfate	\$ 0.38750	\$ 0.34500	12.32%	1,080,864	Pounds	\$418,834.80	Chemtrade
Fleur	Carbon Dioxide	\$ 0.05800	\$ 0.04850	19.59%	2,702,160	Pounds	\$156,725.28	Air Products
Fleur	Ferric Chloride	\$ 0.27900	\$ 0.17300	61.27%	3,062,448	Pounds	\$854,422.99	Kemira
Fleur	Hydrofluosilicic Acid	\$ 0.27700	\$ 0.23550	17.62%	288,230	Pounds	\$79,839.71	Dubois
Fleur	Lime	\$ 215.50	\$ 184.50	16.80%	11,709	Tons	\$2,523,289.50	Mississippi Lime
Fleur	Soda Ash	\$ 0.27300	\$ 0.16000	70.63%	108,086	Pounds	\$29,507.48	Dubois
Fleur	Solar Salt	\$ 235.00	\$ 201.00	16.92%	225	Tons	\$52,875.00	Step Saver
Fleur	Sodium Hypochlorite	\$ 1.98400	\$ 1.25000	58.72%	214,244	Gallons	\$425,060.10	DPC
Fleur	Polyphosphate	\$ 1.30000	\$ 1.03000	26.21%	171,137	Pounds	\$222,478.10	Carus
<b>Fleur Drive Sub-Total</b>							<b>\$6,204,184.96</b>	
McMullen	Activated Carbon	\$ 1.70000	\$ 1.07000	58.88%	120,096	Pounds	\$204,163.20	Calgon
McMullen	Carbon Dioxide	\$ 0.05800	\$ 0.04850	19.59%	960,768	Pounds	\$55,724.54	Air Products
McMullen	Sodium Hypochlorite	\$ 1.98400	\$ 1.25000	58.72%	91,252	Gallons	\$181,043.97	DPC
McMullen	Ferric Chloride	\$ 0.27900	\$ 0.17300	61.27%	1,000,800	Pounds	\$279,223.20	Kemira
McMullen	Hydrofluosilicic Acid	\$ 0.27700	\$ 0.23550	17.62%	100,080	Pounds	\$27,722.16	Dubois
McMullen	Lime	\$ 215.50	\$ 184.50	16.80%	4,103	Tons	\$884,196.50	Mississippi Lime
McMullen	Polyphosphate	\$ 1.30000	\$ 1.03000	26.21%	32,026	Pounds	\$41,633.80	Carus
<b>McMullen Sub-Total</b>							<b>\$1,673,707.37</b>	
SWTP	Antiscalant	\$ 1.95000	\$ 1.45000	34.48%	55,044	Pounds	\$107,335.80	Avista
SWTP	Citric Acid	\$ 1.75000	\$ 1.95000	-10.26%	137,610	Pounds	\$240,817.50	Thorton Musso
SWTP	Hydrofluosilicic Acid	\$ 0.27700	\$ 0.23550	17.62%	55,044	Pounds	\$15,247.19	Dubois
SWTP	Polyphosphate	\$ 1.30000	\$ 1.03000	26.21%	0	Pounds		Carus
SWTP	Sodium Bisulfite	\$ 0.19300	\$ 0.13400	44.03%	311,916	Pounds	\$60,199.79	Harcross
SWTP	Sodium Hydroxide 30%	\$ 2.26630	\$ 1.68310	34.65%	91,401	Gallons	\$207,142.09	Univar
SWTP	Sodium Hypochlorite	\$ 1.98400	\$ 1.25000	58.72%	64,090	Gallons	\$127,154.56	DPC
SWTP	Sodium Permanganate	\$ 1.70000	\$ 1.06000	60.38%	69,722	Pounds	\$118,527.40	Carus
SWTP	Poly Aluminum Chloride	\$ 0.81000	\$ 0.72000	12.50%	73,392	Pounds	\$59,447.52	Suez
SWTP	Hydrochloric Acid	\$ 4.12727	\$ 2.98000	38.50%	380	Gallons	\$1,568.36	Acco
<b>SWTP Sub-Total</b>							<b>\$937,440.21</b>	
<b>Des Moines Water Works 2023 Total</b>							<b>\$8,815,332.54</b>	



DES MOINES WATER WORKS  
Board of Water Works Trustees

Agenda Item No. III-C  
Meeting Date: November 22, 2022  
Chairperson's Signature  Yes  No

**AGENDA ITEM FORM**

**SUBJECT: Des Moines Water Works' Rules and Regulations Update**

**SUMMARY:**

Each year Des Moines Water Works' Rules and Regulations document, including the Schedule of Charges, is updated to clarify existing requirements, establish new requirements, and revise fees to cover Des Moines Water Works' cost for providing various services. A document titled "Outline of Proposed Changes to Des Moines Water Works' Rules and Regulations for 2023" is attached to this memo. This outline gives a brief description of each change by section number.

Some of the more significant changes being recommended include:

- Editing tracer wire materials listed to those now being used on water main projects for Des Moines Water Works.
- Clarifying the proper way to decommission an irrigation system in a manner that does not create a potential future cross connection.
- Specifying that individual meters shall be installed in individual pits for manufactured home complexes.
- Requiring that if a meter pit is installed in the right of way, a traffic rated lid is required instead of a hatch.
- Clarifying that sewer deduct/water only meters connected to the same service line as the domestic meter shall be billed to the same account as the domestic meter.
- Editing the public records language to be consistent with the updates to the Iowa Code Chapter 22, per Iowa Senate File 2322, signed into law and in effect on July 1, 2022.

Fee schedules have been updated to reflect increases in labor and material costs based on The Engineering News Record Construction Cost Index for the month of August 2022.

It is proposed that these revisions, including the revised fees, become effective on January 1, 2023.

**FISCAL IMPACT:**


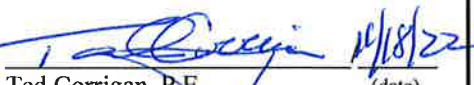
Adjusted fees will cover Des Moines Water Works' costs for services provided.

**RECOMMENDED ACTION:**

Approve the proposed revisions to the Rules and Regulations with an implementation date of January 1, 2023, and direct publication of the changes as required by statute.

**BOARD REQUIRED ACTION:**

Motion to approve the proposed revisions to the Rules and Regulations with an implementation date of January 1, 2023, and direct publication of the changes as required by statute.

	 Jennifer Puffer, P.E. (date) 11-16-22 Director of Water Distribution	 Ted Corrigan, P.E. (date) 11/18/22 CEO and General Manager
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Attachments: Outline of Proposed Changes to Des Moines Water Works' Rules and Regulations for 2023  
Proposed 2023 Rules and Regulations document showing red-lined changes

# **Outline of Proposed Changes to Des Moines Water Works' Rules and Regulations for 2023**

## **Section 500 – Preface**

No Changes

## **Section 501 – General**

No Changes

## **Section 502 – Applications for Use of Water**

502.1.1 has been edited to clarify that if a customer has an unpaid balance for water service at a previous location, that balance must be paid, or arrangements made for payment, before service can be started in the customer's name.

## **Section 503 – Application for Installation of Water Service**

No Changes

## **Section 504 – Taps and Connections**

No Changes

## **Section 505 – Water Service Installation**

505.5.2.5 and 505.6.6 have been edited to match the tracer wire materials currently being used on water main projects for Des Moines Water Works.

## **Section 506 – Cross Connection and Backflow Prevention**

506.1.7 has been added to clarify the proper way to decommission an irrigation system in a manner that does not create a potential future cross connection.

## **Section 507 – Public Fire Protection**

No Changes

## **Section 508 – Private Fire Protection**

No Changes

## **Section 509 – Water Meters**

509.4.1 has been edited to specify that individual meters shall be installed in individual pits for manufactured home complexes.

509.12.4 has been edited to clarify that if a meter pit is in the right of way, a traffic rated lid is required instead of a hatch.

509.15.1 has been edited to clarify that sewer deduct meters that are connected to the same service line as the domestic meter, shall be billed to the same account as the domestic meter.

509.15.2 has been edited to clarify that water only meters that are connected to the same service line as the domestic meter, shall be billed to the same account as the domestic meter.

509.15.3 has been added to clarify tap and service line requirements for irrigation of common use areas at multi-unit properties.

## **Section 510 Service Main Extensions**

Section 510 was eliminated in 2013.

## **Section 511 Schedule of Charges**

### **1. FIRE PROTECTION CHARGES**

Fire protection fee charts have been updated to account for construction cost increases.

### **2. SYSTEM DEVELOPMENT FEE STRUCTURE**

The system development fee charts have been updated to account for increases in construction cost.

### **3. UNIFORM TAP CHARGES**

Uniform tap charges have been updated to account for changes in labor and material costs.

### **4. UNIFORM TAP RETIREMENT CHARGES**

Uniform tap retirement charges have been updated to account for changes in labor and material costs.

### **5. METERS**

Coupling fees and meter fees have been updated to account for changes in labor and material costs.

7. MISCELLANEOUS CHARGES

Miscellaneous charges have been updated to account for increases in labor and material costs.

**Section 512 Figures**

Figures have been edited to reflect changes in the above sections.

**Section 513 Glossary of Terms**

No Changes

**Section 514 Supplemental Requirements for the former Southeast Polk Rural District**

Section 514 was eliminated in 2019.

**Section 515 Water Shortage Plan**

515 has been edited to replace the term irrigation with lawn watering, as well as to clarify the even and odd day watering schedule.

515.6.5 has been clarified as to the water rate that will be billed during the Stage IV Monthly Water Ration.

**Section 516 Public Records**

516 has been edited to clarify the current practices and updates to the Iowa Code Chapter 22, per Iowa Senate File 2322, signed into law and in effect on July 1, 2022.



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WATER SERVICE RULES AND REGULATIONS

ADMINISTRATIVE PROCEDURES

OF THE

DES MOINES WATER WORKS

DES MOINES, IOWA

PREFACE

1. The Des Moines Water Works is a municipal utility which is governed by, and officially title as, The Board of Water Works Trustees of the City of Des Moines, Iowa (“Des Moines Water Works” or “DMWW”). These Water Service Rules and Regulations (“Rules and Regulations”) have been developed in accordance with the Policy Manual of the Board of Water Works Trustees of the City of Des Moines, Iowa, Section 5, Water Service. These Rules and Regulations provide for implementation of the Section 5 policies.

2. The Des Moines Water Works delivers water to customers through water mains installed in public right-of-way and occasionally on easements on private property. The mains are either owned or maintained by the Des Moines Water Works and are under its exclusive control. The property owner is responsible for the maintenance and care of all piping, appurtenances and fixtures (including corporations) other than the water main. The water meter, automated meter reading devices and related wiring are installed and owned by the Des Moines Water Works, but the customer remains responsible for protecting them from frost and other external forces. Normal meter repair is made by the Des Moines Water Works, without charge.

3. All water service is subject to these Rules and Regulations and shall be provided on terms of a water service agreement as provided to all new customers and to existing customers from time to time. No installation of a water service (the pipe and fixture from the main in the street to the meter), nor repair thereof, shall be made which does not conform to these Rules and Regulations and the applicable plumbing code. All installations or repairs shall be made by a Licensed Plumber. Inspection for conformance by the Des Moines Water Works or the appropriate jurisdictional plumbing inspector is required for all installations and repairs of water service facilities.

500 RULES FOR PROVIDING WATER SERVICE (Revised January 2022)

- 500.1 These rules shall govern water service provided by the Des Moines Water Works. Compliance with these rules is a condition of service. Failure to conform to these Rules and Regulations may result in termination of water service.
- 500.2 Except to the extent a different right of appeal is specified in any section of these Rules and Regulations with respect to a particular matter, any person aggrieved by the application of these Rules and Regulations, shall within 90 days of the decision or action complained of be required to request a hearing before an appeals committee consisting of: (1) the CEO and General Manager or the CEO and General Manager's duly appointed representative; (2) the Director of Customer Service; and (3) the Chief Operating Officer ("Appeals Committee") before commencing any action in court. After hearing, a written decision shall be issued by the Appeals Committee, which shall be final as to all matters considered. Prior to commencing any action in court, the persons making the appeal must file a written request to appear before the Board of Trustees with the CEO and General Manager within ten days of the date of the Appeals Committee decision. Such issue will then be considered by the Board of Trustees as provided in Section 206.8 of Board Policy Manual at the next scheduled meeting.

501 GENERAL

501.1 WATER PRESSURE

Water pressure varies throughout the distribution system depending upon the ground elevation. Information on pressure at a specific location may be obtained upon request to the Des Moines Water Works.

501.2 INTERRUPTIONS OF SERVICE

The Des Moines Water Works may interrupt a customer's water supply in order to make repairs to the system or for other operational reasons. An effort will be made to provide 24-hour advance notification of any interruption for scheduled repairs. In case of unanticipated interruptions and emergencies such as main breaks, mains or services may be shut down and water service interrupted without notification. Des Moines Water Works makes no guarantee of uninterrupted service and will have no liability for direct, indirect, incidental or consequential damages arising from any interruption of water service for any reason.

501.3 LOCATION OF WATER FACILITIES

501.3.1 Water mains and facilities owned or maintained by the Des Moines Water Works:

The Des Moines Water Works will furnish information, as available from its records, regarding locations of mains, hydrants, valves, and other fixtures owned by the Des Moines Water Works. The Des Moines Water Works will use its employees and tools in this effort at no cost to the person assisted. The Des Moines Water Works will assume responsibility for the location of its mains, pipes, valves, or other fixtures. It should be understood that after the location of the facility is established, the Des Moines Water Works shall expect the facility to be protected from damage or harm.

501.3.2 Water mains, valves, services, and fixtures not owned or maintained by the Des Moines Water Works:

This section references private water mains and valves, benefited water district mains, rural water district mains, etc. On such mains and facilities, the Des Moines Water Works will make available to persons who have a reasonable need, information concerning these mains and facilities from records on file with the Des Moines Water Works.

Records on private mains and facilities and similar installations are furnished to the Des Moines Water Works on behalf of the owners of these mains and facilities and may not be current or reflect as-built conditions. It should be understood that these facilities are not owned or maintained by the Des Moines Water Works.

The Des Moines Water Works makes no assurances of the accuracy or validity of the records or information. Persons shall use their own discretion when making use of these records of private facilities. The Des Moines Water Works will, upon request, provide assistance, at its convenience, in an effort to locate a private pipe, valve, or fixture. If, in the Des Moines Water Works judgment, an exceptional amount of time has been spent in this effort, the Des Moines Water Works reserves the right to bill for the costs involved.

501.4 WATER AVAILABILITY

All requests for water service will be evaluated on whether adequate capacity is available at the desired location. If adequate service is not available, alternatives may be provided to the owner to obtain the desired service. In some locations, a connection fee may be charged and applied in addition to the tap charges.

502 APPLICATIONS FOR THE USE OF WATER

502.1 APPLICATIONS (Revised January 2023)

502.1.1 Applications for the use of water shall be made via phone or by means of electronic forms available on the internet at [www.dmww.com](http://www.dmww.com). If a customer has an unpaid balance for water service at a previous location, this balance must be paid, or arrangements made for payment, before service can be ~~turned on~~ started in customer's name. If an existing or former customer receives water at a new location and DMWW becomes aware of an unpaid delinquent balance of such customer at a previous property, payments made by the customer to settle charges on their current account will be first applied to satisfy the oldest charges at the previous property. DMWW's customary collection procedures as outlined in 502.3 of these Rules and Regulations will apply to unsatisfied charges at the customer's new property.

502.1.2 Customers who are tenants of a property will be charged a deposit equal to the usual cost of 90 days of water service based on an average household consumption of 7,500 gallons per thirty-day period. Such deposit will be added to the customer's account and will be reflected on the customer's first statement. Deposits are subject to Des Moines Water Works' collection rules, and as such, service may be terminated for non-payment of a deposit. The deposit will be applied to the balance of the account at the date of final service. Any amounts remaining after application of the deposit to the final balance will be refunded to the customer within a reasonable period of time subsequent to the customer's final service date. See Section 511-Schedule of Charges.

502.1.3 If there is no water service into the premise, see Section 503.

502.2 BILLING (revised January 2019)

502.2.1 Meters will be read periodically and bills will be mailed or delivered electronically monthly. All bills for water service shall be due and payable on or before the due date.

- 502.2.2 Payment may be made by mail or at the Des Moines Water Works' office located at 2201 George Flagg Parkway, or at other designated pay stations. A list of the pay stations and addresses is available online at [www.dmww.com](http://www.dmww.com). Payment may also be made by automatic debit to a checking account. Payment may also be made by means of credit card or check card at the Des Moines Water Works office, by telephone, or online at [www.dmww.com](http://www.dmww.com).
- 502.2.3 All customers shall make it possible for the Des Moines Water Works representatives to obtain valid readings of any water meter(s) attached to the water service serving the premises. Water service may be discontinued if the Des Moines Water Works is unable to read the meter(s) or make repairs to the meter(s) or to any meter reading equipment.
- 502.2.4 In the event of errors in the amount billed for water service, the amounts due to or from customers shall be subject to retroactive adjustment for a period of not more than five (5) years prior to the date of discovery of the error.
- 502.2.5 During any period which Des Moines Water Works is unable to obtain a good meter read, whether by meter reading equipment malfunction or other cause, the customer's bill will be estimated based on previous consumption used at the property until such time that a good read is obtained. If no consumption history exists for the property, the estimated consumption will be based on such other information, including typical use for similar customers as Des Moines Water Works may determine to be applicable. At such time that a good read is obtained, Des Moines Water Works will calculate the amount of actual consumption used during the estimating period and will compare that to the estimated consumption as billed. A true up will be calculated, and the customer will receive a credit on their next billing statement for any consumption overestimated and amounts overpaid, or an increase adjustment to their bill for any consumption underestimated and amounts underpaid.

- 502.2.6 Residential customers who experience a leak after the meter (e.g., as a result of running toilet, burst pipes, etc.) may request a leak adjustment. Any leak adjustment granted shall be based on monthly consumption during the period during which the leak has been shown to have occurred and shall be limited to 50% of the excess consumption as measured against the account's next highest month's consumption in the immediate 12 months prior to the leak. The leak adjustment will be applied to not more than three monthly bills, absent a showing of highly compelling or extraordinary circumstances. Leak adjustments are a one-time reduction in charges and will be granted only after the leak is verified to have been remedied.

#### 502.3 DEFAULT IN PAYMENT (Revised January 2021)

- 502.3.1 When a customer is in default of payment of an account for water supplied to his/her premises, or for fire service, the customer shall be charged a delayed payment (i.e., late) fee equal to 5% of the new charges not collected by the due date stated on the customer's billing statement, and water service may be terminated in accordance with the Turn Off and Collection Procedures then in effect.

The Des Moines Water Works may cause a lien to be placed against property under Section 384.84 of the Code of Iowa as amended unless such property has been exempted from lien under Section 384.84 of the Code of Iowa. Any lien filing shall be in accordance with applicable provisions, including notice provisions of Section 384.84 of the Iowa Code of Iowa.

- 502.3.2 Where a water service has been turned off because of violation of the Rules and Regulations, or non-payment of bills due, a charge shall be collected for terminating service as provided in Section 511 of these Rules and Regulations.

#### 502.4 UNAUTHORIZED USE OF UNMETERED WATER

- 502.4.1 Where a water service has been turned off at the stop box or water main for any reason, and is subsequently found turned on without proper authority, Des Moines Water Works may discontinue the water service. The water service shall not be reactivated until the customer pays an amount equal to or greater than the termination amount, plus applicable penalties.



502.4.2 The discovery of piping bypassing the meter, or tampering with the meter that would allow unauthorized water to be used on the premises of a customer, is in violation of Chapter 714.4, Code of Iowa. The following charges will be made against the customer in such cases:

502.4.2.1 Cost for removal of piping and all other incidental costs.

502.4.2.2 A penalty as established by the Board and as provided in Section 511 of these Rules and Regulations.

Des Moines Water Works also reserves the right to charge for estimated water consumption in addition to the above charges.

502.4.3 In addition to the above charges, the Code of Iowa provides for the punishment for each offense by a fine of not less than one hundred dollars (\$100.00), or by imprisonment in the county jail for a period of not more than 30 days, or by both fine and imprisonment.

#### 502.5 CUSTOMER/OWNER RESPONSIBILITY (Revised January 2022)

502.5.1 The customer shall be liable for water consumed as metered until provisions are made for the Des Moines Water Works to turn off water service or remove the meter.

502.5.2 When a customer is moving out of a premise and orders the water meter read on a certain day, the water must be turned off when the meter is read, unless there is an application already on file from a prospective customer, or a written request form the property owner in the case of a rental property, to keep the water on and transfer responsibility for service to the prospective customer or property owner's name.

502.5.3 The owner of the premises served shall be the owner of, and responsible for all water service pipes and fixtures of every kind from the point of incorporation of the customer's service line at the water main. Water service pipes and fixtures shall include, but not be limited to, water service lines, stop boxes, valves, and interior plumbing. The owner, at his/her expense, shall protect, safeguard, and keep all of his/her water service pipes and fixtures in good working order. The Des Moines Water Works is not responsible for maintaining, repairing or replacing water service pipes and fixtures or for any damages arising from the use or failure of any water service pipes and fixtures.

Des Moines Water Works shall not be liable for damages due to the breakage or failure of any water service pipes or fixtures, even if such breakage or failure occurs during, or arises from, work performed by Des Moines Water Works. The damages for which Des Moines Water Works shall not be liable include any damages for breakage of any stop box during operation of the stop box by Des Moines Water Works and any damages for accidental or temporary failure in the supply of water.

- 502.5.4 Whenever it shall come to the attention of the Des Moines Water Works that a water service, stop box, valve, or meter pit (including its cover) is broken, inoperable, or otherwise in a dangerous or unsafe condition, the Des Moines Water Works will make reasonable efforts to notify the customer and the owner of the premises, if different. Such notification will require the immediate repair and restoration of the facility. The obligation to cause or make required repairs is a condition of continued service to all affected premises. The Des Moines Water Works may terminate water service to the premises until such repairs are made or in case such condition poses a hazard to the public or adjoining property or requires repair to an inoperable stop box, it may make or cause to be made, all such repairs as are necessary. The costs of such termination and repairs, if any, shall be included in the next water bill and, if not paid, may result in termination of service to the premises or the certification of such amount as a lien against the property as with other unpaid water bills. Responsibility for the costs of repair shall be assessed to the owner of the property as shown in the applicable county real estate records as of the date that the Des Moines Water Works discovers or is otherwise informed of the condition requiring the repair. Notwithstanding the foregoing, the failure of the responsible person to pay charges for repairs as defined above shall not be grounds for termination of service or imposition of a lien against a subsequent transferee of the premises or a subsequent customer account holder. (Revised January 2019)
- 502.5.5 The customer and owner shall operate valves and other appurtenances of their water piping system in such a manner that pressure surges are not transmitted to the Des Moines Water Works' water distribution system.
- 502.5.6 The property owner or customer shall provide a proper address that is visible from the street.

#### 502.6 SERVICE LINE OWNERSHIP IN THE FORMER SE POLK SYSTEM

Service lines installed in the area of the former SE Polk System after April 1, 2007 shall be owned by the property owner, and shall be subject in all respects to these Rules and Regulations, including but not limited to Rule 502.5.

For service lines installed prior to April 1, 2007 the Des Moines Water Works will be responsible for the maintenance and repair of the service line from the point of connection, to the water main up to and including the meter pit, as an exception to Rule 502.5, but only until ownership of the property that is serviced is transferred of record. The owner will be responsible for the remainder of the water service. Ownership and responsibility for repair and maintenance of the entire service line from the water main under Rule 502.5 will transfer to the new property owner at such time as the property changes ownership as shown in the applicable county real estate records. The new property owner will become responsible for all maintenance and repair of the service line as provided in Rule 502.5 after the date of transfer as shown in the applicable county real estate records.

503 APPLICATION FOR INSTALLATION OF WATER SERVICE

503.1 APPLICATION FOR WATER SERVICE PERMIT

- 503.1.1 The Des Moines Water Works will assign a permit number for installation of a water service from the main up to and including the water meter. Each service must have its own tap in the water main. No work of any nature shall be done in connection with the tapping of any water main, or the introduction of water into the premises (public or private) between the water main and meter, unless a permit has been obtained from the Des Moines Water Works for such work. If a water service tap has not been installed at an address within 6 months of the date of the application, the permit will expire and the applicant must reapply. Each residence or premise requiring water shall have an individual service, which does not take water from another domestic service or building, with the exception of Private Water Mains. (Figures 1-2 & 5-10 and Section 505.9)
- 503.1.2 In cooperation with the City of Des Moines or other political subdivisions, the Des Moines Water Works will not issue a permit to tap its water mains without a ROW opening or plumbing permit.
- 503.1.3 The Des Moines Water Works must be provided with the legal description of the property to be served.
- 503.1.4 Application for water service in unincorporated areas and other areas with small diameter mains will initiate an evaluation of the distribution system in the area to determine if capacity is available to provide the requested service. These applications will be evaluated by Des Moines Water Works before a permit is issued.
- 503.1.5 Des Moines Water Works retains final discretion for approval of any application for water service, which it will approve in its sole discretion. The applicant, or party in control of the applicant, shall have paid all system development fees, tap charges, and any other fee owed to Des Moines Water Works prior to approval of any new water service. Des Moines Water Works may consider other factors in its sole discretion before approving new water service.

503.2 APPLICATION REQUIREMENTS FOR FIRE SERVICES AND DOMESTIC SERVICES 2" IN DIAMETER AND LARGER

503.2.1 GENERAL REQUIREMENTS

The following items shall be submitted to the Des Moines Water Works for review prior to installation of any fire service or any domestic service 2" in diameter or larger.

503.2.1.1 A site plan showing buildings, pavement, right-of-way lines, existing water mains, valves, hydrants, and the proposed service line.

503.2.1.2 Plumbing plans which show water meter and backflow preventer locations as well as all water-using fixtures in the building.

503.2.1.3 Fire sprinkler system plans or a written description of the system and a detail of the riser piping.

503.2.1.4 A fire department review form showing maximum required fire flow and approved fire service layout.

503.2.1.5 An estimate of peak domestic demand to assist in selecting and sizing the water meter. If large flow fluctuations are anticipated, a load profile may be required. A load profile is defined as a written or graphical estimate of the lowest measurable flow, average, and peak gallon consumptions for each hour of a 24-hour period. (See Figure 28) Peak flows felt to be unrealistic will be checked using the fixture unit method.

503.2.2 The tap may be scheduled with the Des Moines Water Works after the submittal has been reviewed and approved by Des Moines Water Works, after Des Moines Water Works determines if the applicant has satisfied the requirements of 503.

503.2.3 The Plumbing Contractor who signs for the tap will be billed for the tap based on current rates as established by the Board and stated in the Schedule of Charges.

- 503.2.4 A connection fee shall be charged and collected for all connections made to the Des Moines Water Works Distribution System. Such fees shall be based on tap size for fire and domestic service as stated in the Schedule of Charges.
- 503.3 OBLIGATIONS OF PLUMBING CONTRACTORS (Revised January 2022)
- 503.3.1 Any Plumbing Contractor performing work on the Des Moines Water Works distribution system must have a State of Iowa Plumbing License and provide an annual \$20,000 bond to the Board, with approved surety, conditioned upon no loss, damage, or injury, including failure to pay fees, being incurred by the Des Moines Water Works by reason of the work of such Plumbing Contractor.
- 503.3.2 The Plumbing Contractor, as a licensed individual, has full personal responsibility for all obligations to Des Moines Water Works even if doing business under an entity or company name or bond. The Des Moines Water Works may refuse to allow taps to be made by a Plumbing Contractor with a delinquent balance owing to Des Moines Water Works for prior work performed by the Plumbing Contractor either in such person's own name or under a company or entity name. The Des Moines Water Works may refuse to recognize any Plumbing Contractor who fails to comply with these Rules and Regulations or meet such Plumbing Contractor's financial responsibility to Des Moines Water Works.
- 503.3.3. Should Plumbing Contractor's creditworthiness, financial responsibility, or performance become unsatisfactory to DMWW in DMWW's reasonably exercised discretion, DMWW may require the Plumbing Contractor to provide, at the Plumbing Contractor's option (but subject to DMWW's acceptance based upon reasonably exercised discretion), one or more of the following (i) the posting of a letter of credit, (ii) a cash prepayment, (iii) the posting of other acceptable collateral or security by the Plumbing Contractor, or (iv) some other mutually agreeable method of satisfying DMWW.

In evaluating the creditworthiness of the Plumbing Contractor, DMWW will consider the payment and delinquency history of the Plumbing Contractor and the number of permits requested by the Plumbing Contractor. DMWW will also include in its evaluation of Plumbing Contractor's financial responsibility the Plumbing Contractor's payment history, whether under the Plumbing Contractor's own name or any corporate name, and whether Plumbing Contractor employs individuals who have unpaid obligations owed to DMWW from prior work that the employed individual performed as a separate Plumbing Contractor.

#### 503.4 PLUMBING INSPECTION

The Des Moines Water Works will make inspections to verify compliance with these Rules and Regulations at the time that the water service is activated.

#### 503.5 WATER FOR BUILDING OR OTHER CONSTRUCTION

Water may be used for building or other construction purposes only after application has been made to the Des Moines Water Works for a temporary construction meter. Temporary meters will not be allowed after building or construction has been completed.

#### 503.6 REUSING EXISTING WATER SERVICE LINES

Any existing unused water service may be utilized provided it is in compliance with these Rules and Regulations and permission is obtained from the Des Moines Water Works in advance. In order to obtain permission lot lines must be clearly identifiable by Des Moines Water Works staff. If not clear, lot pins must be exposed or property corners shall be staked by a licensed land surveyor in the State of Iowa.



## 503.7 SPECIAL CASES

### 503.7.1 FIRE SERVICES

Any Plumbing Contractor or other contractor desiring a permit to extend a water service to a premise to supply water for fire protection must complete all items listed under Section 503.2.1.

Additionally, the applicant must provide fire flow requirements and a fire service proposal, reviewed by the Des Moines Fire Marshal or the jurisdictional authority. A copy of this form is included as Figure 29 of these Rules and Regulations.

## 504 TAPS AND CONNECTIONS

### 504.1 GENERAL

- 504.1.1 All taps and/or connections to water mains, public and private, shall be made by the Des Moines Water Works or its authorized contractors. This includes the installation of the corporation cock, tee, or tapping sleeve and gate valve at the main. Taps will be made only after application is completed by a Plumbing Contractor and the property owner as outlined in Section 503 of these Rules and Regulations.
- 504.1.2 All corporations and tapping valves will be considered to be in good operating condition after installation unless the contractor notifies the Des Moines Water Works of any defects within 1 year of installation.
- 504.1.3 The Des Moines Water Works will assess charges for more than one trip to the same tap location unless notification is given that the Plumbing Contractor is not ready for the tap to be made prior to the arrival of the tapping crew.
- 504.1.4 No new tap shall be installed where a water service or stub already exists unless prior approval has been obtained from the Des Moines Water Works. If there are water service stubs serving the property which will not be used these stubs must be disconnected from the main before a new tap will be made.
- 504.1.5 A minimum of 24-hour advance notification is requested for taps. Before a tap request is made, the appropriate paperwork must have been completed in accordance with Section 503 of these Rules and Regulations.
- 504.1.6 Lot lines must be clearly identifiable by Des Moines Water Works staff prior to any new taps. If not clear, lot pins must be exposed or property corners shall be staked by a licensed land surveyor in the State of Iowa upon request by Des Moines Water Works.
- 504.1.7 Mains 16" and larger cannot be tapped without prior approval from the Des Moines Water Works.

## 504.2 LOCATION OF TAP

- 504.2.1 Generally, taps will be made for 1" services at 45° angles on the main in front of and within the projected lot lines of the property to be served. Taps 2" and larger will be made at a 90° angle.
- 504.2.2 Taps on the backside of the main will be made only after the proper side of the main has been exposed and the Des Moines Water Works has verified that obstacles make it impossible to tap the house side of the main.
- 504.2.3 Taps shall not be located:
- (1) On hydrant branches; or
  - (2) Within an intersection.
- 504.2.4 Taps 1" in size shall not be located closer than 18" from another tap, joint, or pipe fitting.
- 504.2.5 Taps 2" in size shall not be located closer than 2' from another tap, joint, or pipe fitting.
- 504.2.6 Tapping sleeve & valve (TS&V) or tee service connection shall not be located closer than 3' from another TS&V, pipe, joint, or fitting.

## 504.3 SIZE OF TAP

- 504.3.1 Minimum size tap allowed is 1".
- 504.3.2 Maximum size corporation allowed is as follows:
- a. 1" on 2" main
  - b. 1" on 3" main
  - c. 1" on 4" main
  - d. 2" on 6" main
- 504.3.3 Taps 2" and larger must have prior approval from the Des Moines Water Works.

- 504.3.4 Taps larger than 2" will be made by the installation of a tapping sleeve and valve at the main, or in a similar manner, as prescribed by the Des Moines Water Works.
  - 504.3.5 Taps of a size equal to the main may be allowed.
- 504.4 EXCAVATION FOR TAP
- 504.4.1 The Plumbing Contractor shall make the excavation required for the tapping of a water main. The top and bottom of the excavation for a 1" tap shall be a minimum of 3' by 5'. When shoring is required, the minimum work area shall be 3' x 5'. Floor of excavation shall be level leaving a clearance of at least 12" around the main. (Figure 1). For larger taps see Figures 2 & 22.
  - 504.4.2 The excavation shall be shored in accordance with OSHA and the Iowa Occupational Safety & Health Standards for the Construction Industry (IOSH) rules. Des Moines Water Works will not enter an excavation or trench which does not conform to OSHA and IOSH requirements. Plumbers and contractors shall be solely responsible for compliance with OSHA and IOSH excavation and trench protection regulations.
  - 504.4.3 Tapping of a main with structures or obstructions overhead will be permitted only if IOSHA standards are met.
- 504.5 REMOVAL OF TAP OR CONNECTION (Revised January 2021)
- 504.5.1 Services having a ½", ¾", or 1" corporation tap are to be disconnected from the corporation stop and the stop box removed in accordance with these Rules and Regulations (Figure 3). This work shall be performed at the owner's expense by a Plumbing Contractor and inspected by Des Moines Water Works.
  - 504.5.2 The Des Moines Water Works will assess charges for more than one trip to the same location for a tap cut inspection if the work is not ready for inspection when the water works representative arrives for the inspection unless notification is given that the work is not ready for the inspection prior to the arrival of Des Moines Water Works.

- 504.5.3 When services are connected to the main by a 2" corporation, a tee, or a tapping sleeve and valve, Des Moines Water Works shall permanently disconnect the service from the water main by an appropriate method determined by Des Moines Water Works, at the owner's expense. (see Uniform Tap Retirement Charges, Section 511.8)
- 504.5.4 The excavation shall be prepared by the plumber or contractor and shored in accordance with OSHA and the Iowa Occupational Safety & Health Standards for the Construction Industry (IOSH) rules. Des Moines Water Works will not enter an excavation or trench which does not conform to OSHA and IOSH requirements. Plumbers and contractors shall be solely responsible for compliance with OSHA and IOSH excavation and trench protection regulations.
- 504.5.5 Removal of taps or connections through a tunnel, with dirt or concrete overhead, will not be permitted due to the hazard incurred by workers.
- 504.5.6 Upon proper application by customer, approved by Des Moines Water Works, an existing ¾", 1", or 2" service connection may be temporarily plugged at the stop box with the understanding that the service connection so stubbed must be reused in one year. Such service lines may be stubbed only if the service line is copper and the curb valve meets current curb valve requirements. A new curb stop shall be installed at the time the service line is stubbed if the existing curb stop does not meet these standards. (see required application, Figure 31).
- 504.5.7 Upon proper application by customer, approved by Des Moines Water Works, an existing service connection 4" and larger may be temporarily plugged with the understanding that the service connection so stubbed must be reused in one year. Such service lines may be stubbed only if the service connection was made using an O-ring style gate valve. Split services shall be plugged in public right-of-way upstream of the tee. Service connections 3" in diameter shall not be stubbed.
- 504.5.8 For removal of a service from a private main, see Figure 4.
- 504.5.9 Water service lines that have been removed may not reuse the corporation tap for a future water service.

## 505 WATER SERVICE INSTALLATION

### 505.1 DEFINITION

A service line is comprised of the piping and related appurtenances including the connection installed from the Des Moines Water Works water main to the outlet connection of the first shut off device within the building to be served.

### 505.2 APPLICATION

Refer to Section 503.

### 505.3 GENERAL LOCATION REQUIREMENTS

All service lines shall conform to the following requirements:

- 505.3.1 The water service shall normally be installed perpendicular to the main from the tap to the right-of-way line and shall tap in front of and within the projected lot lines of the property to be serviced. (Figures 1-2 & 5-12)
- 505.3.2 A clearance of not less than 12" shall be maintained between the service line and any pipe, cable, or conduit in the same trench.
- 505.3.3 Service lines shall have a cover, wherever feasible, of not less than 5'. Whenever the local plumbing code conflicts with this section, the plumbing code shall be followed.
- 505.3.4 The water service shall extend through and beyond the outer wall of the building (see Section 509 for meter setting). Where the building has a rear basement or rear cellar only, the service may extend underground beyond the inner foundation wall a maximum of 2' and then may go vertically through the rear basement floor or wall, or extend around the building and enter through the side of the basement wall. (Figure 8)
- 505.3.5 In a building with a poured floor that has no basement, the service shall extend inside the outer wall of the building and into the building at which point it shall go vertical through the floor and a meter setting made. (Figure 9)
- 505.3.6 For a building with a crawl space, see Figure 10.

505.3.7 For a building with a standard basement, see Figure 7.

#### 505.4 SIZE OF WATER SERVICE LINES

505.4.1 New or replacement residential service lines shall not be less than 1" inside diameter. Reconnection of existing 3/4" type K copper water service lines from an existing main to a new main shall be allowed. Use of existing 3/4" type K copper water service stubs shall be allowed provided they meet the requirements of these Rules and Regulations.

505.4.2 Commercial, industrial, and fire service lines shall be properly sized for the required demand but shall be no smaller than that specified for a residential service.

#### 505.5 MATERIAL FOR SERVICE PIPING 2" AND SMALLER (revised January 20~~23~~<sup>24</sup>)

505.5.1 All water service pipes through 2" shall be type K copper, red brass or PEX pipe as specified in section 505.5.2

505.5.2 PEX A 200 psi. pipe can be used for 1" – 2" water service installations as follows:

- a. From the tap to the meter inside the premise on water service replacements. If PEX pipe is used PEX shall be installed all the way from the stop box to meter, from the tap to the stop box, or from the tap to the meter. PEX shall not be used for repairs or partial replacements.
- b. New water service installations from the tap to the meter inside the premise provided that the entire service line is installed as one installation.
- c. PEX pipe can be used between the main and the meter pit or stop box in rural areas of the former SE Polk system.

Type K copper is required for all service lines which run parallel to the street before entering the property. Type K copper is required from the tap to the stop box for all new water service stubs in new developments and all other instances where the water service is stubbed to the stop box. Copper can also be used from the stop box to the meter inside the premise on any service line through 2".

- 505.5.2.1 This section has been eliminated.
- 505.5.2.2 PEX pipe shall be blue in color for all 1-inch installations.
- 505.5.2.3 PEX pipe shall be installed as one continuous piece from the tap to the stop box. Splicing of PEX pipe between stop box and meter inside the building is discouraged and will only be approved under special circumstances.
- 505.5.2.4 PEX pipe shall not be used within 200' of a Leaking Underground Storage Tank or in other areas where the soil may be contaminated. A copy of the assessment report from the IDNR indicating there is no potential health risk will be required for use of PEX pipe when working within a 500' radius of a LUST site. Information on the location of Leaking Underground Storage Tanks may be obtained from the Iowa Department of Natural Resources by following the instructions in Figure 36.
- 505.5.2.5 Tracer wire shall be installed when PEX pipe is used. The tracer wire shall be installed according to Des Moines Water Works' specifications (Figure 1A, 1B, 1C, 16B). Tracer wire shall be installed with all water service lines except when the water service line is type K copper or red brass. Tracer wire specifications shall be as follows:
- a. For open cut installations, the tracer wire shall be No. ~~14-12~~ AWG high-strength copper-clad steel (HS-CCS) solid single copper conductor with a minimum ~~282~~ pounds break load ~~manufactured by Copperhead Industries, or pre-approved equal tensile strength of 150 pounds.~~ Insulation shall be ~~30-45~~ mil, high-density, high molecular weight ~~-~~polyethylene (HDPE) and rated for direct burial, 30 volts, and blue in color.



- b. When directional drilling/boring the tracer wire shall be No. 12 AWG, extra-high strength copper clad steel conductor (EHS-CCS) with a minimum 1,150 pounds break load ~~manufactured by Copperhead Industries, or pre-approved equal.~~ Insulation shall be 45 mil, high-density, high molecular weight polyethylene (HDPE) and rated for direct burial, 30 volts, and blue in color.
- c. When conduit is used the tracer wire shall be placed inside the conduit. When conduit is not used tracer wire shall be installed alongside the pipe and shall be fastened to pipe with zip ties a minimum of every 5 feet.
- d. ~~Anode Ground Rod shall be 1 Lb., 1.315" D x 18.5" L, magnesium drive in anode manufactured by Copperhead Industries 3/8 inch minimum diameter, 8 foot minimum length, steel rod uniformly coated with metallically bonded electrolytic copper.~~ Anode Ground Rod shall be spliced to tracer wire using a high-strength, corrosion resistant copper alloy ground rod clamp. 3M Scotchcast 3832 Buried Service Wire Splice Kit with Burndy KS15 8-14 AWG Splice Bolt DryConn Direct Bury Lug Aqua (SKU 90220).
- e. Splice Kits, when approved, shall be DryConn Direct Bury Lug Aqua (SKU 90220)
- ~~d.~~f. Tracer wire connectors shall be Rhino TriView, TracerPed, or approved equal. Wire connectors shall contain three internal terminals with two shunts, be 5 feet in length, white in color, and triangular in shape. Removable top cap, three 2-7/8-inch by 14-inch custom vinyl decals No. SD-5594K, and tri-grip anchor.

- 505.5.2.6 PEX pipe shall be stored in a way that prevents damage as a result of crushing or piercing, excessive heat, harmful chemicals, or exposure to sunlight for prolonged periods.
- 505.5.2.7 Joint methods for attaching PEX pipe to fittings shall meet AWWA C 904 Standards and ASTM F1960, F2080, or F1807 Specifications. Fittings shall be installed in accordance with PEX Pipe Manufactures Installation Guidelines and related plumbing codes.
- 505.5.2.8 A tracer wire inspection is required for all PEX service line installations. Contact Des Moines Water Works at 283-8772 when the installation is ready for inspection.

#### 505.6 SERVICE LINE APPURTENANCES (revised January 2020)

All water service lines shall include a curb stop or valve between the water main and the property line as follows:

##### 505.6.1 WATER SERVICES 2" IN DIAMETER OR LESS

Service lines 2" in diameter or less shall have a curb stop installed within a stop box located 1' to 6' out from the property line. Stop boxes installed in rural areas shall be installed within these guidelines outside of the drainage ditch areas whenever possible. Where the water main is located in a frontage easement on the same side of the road as the property to be served, the curb stop shall be placed 5' from the water main towards the property to be served. (See Figure 37). If an alternate location for the curb stop is necessary, approval of the alternate location shall be received from Des Moines Water Works prior to installation. When the main that the water service is connected to is a private or public water main in an easement, the stop box shall be installed 5' from curb of street. Where unusual circumstances prevent this location, the curb stop and stop box may be placed in the street but in such event must be installed within a roadway box. The curb stop shall be installed in the water service pipe so that the tee head is parallel with the curb when the water is turned off. The curb stop shall not have a waste opening.

#### 505.6.1.1 CURB STOP/VALVE STANDARD

An unobstructed main shut-off on the water supply line for each customer shall be provided on public property, private property where public access is provided, or another location approved by the Des Moines Water Works. The shut-off shall be located as shown. (Figures 1, 2, and 34)

The shut-off for existing 3/4" service lines and new or existing 1" through 2" services shall consist of a curb stop (Type: "T" handle, quarter-turn, ball valve conforming to AWWA C800 and a stainless steel self-centering rod with a stainless-steel pin installed within a stop box housing with a 1" upper section and an Erie style lid. (See DMWW Specifications) The curb stop shall have valve head checks that limit rotation to 90 degrees and operate clockwise to shut off. The "T" handle on the curb stop will be parallel with the curb when the water is turned off. When installed, the curb stop shall not be less than 5' or more than 7' below the surface of the ground.

If the water service connection taps the water main outside of the property line, a general box will be required at a location specified by Des Moines Water Works.

#### 505.6.1.2 STOP BOX STANDARD (CURB BOX)

Stop boxes for 1" through 2" water service lines shall be of the extension type, 1" upper section, stainless steel self-centering rod, stainless steel pin, and Erie style lid. All stop box installations shall be completed in such a manner that the top of the rod is between 12" and 24" below the surface, the lid is level with the surrounding surface, and the stop box does not present a hazard to the public. Stop boxes installed in paved areas shall be installed in a manner that prevents the lid of the stop box from being cast into the concrete. (Figures 1-2 & 14-15)

The design of all valves, curb stop boxes and valve boxes must meet the standards of the Des Moines Water Works.

New copper service lines 2" or less in diameter shall be one continuous piece of pipe from the corporation stop to the curb stop and one continuous piece of pipe from the curb stop to the inlet valve at the meter with no fittings when these distances are less than 100' in length. Only one fitting shall be allowed per 100' of pipe.

505.6.2 WATER SERVICES LARGER THAN 2"

For the water services larger than 2" the valve shall be installed on the water service line adjacent to the water main. (Figure 22) The valve shall be installed in a roadway box.

505.6.3 Any valves, roadway boxes and precast concrete manhole vaults must have the approval of the Des Moines Water Works.

505.6.4 Curb stop boxes, roadway boxes and precast concrete manhole vaults shall be installed so that they will function properly and so that an access to the shut-off device is maintained. All shall be set vertically so the top is flush with the surrounding surface so as not to be a hazard to the public.

505.6.5 All service lines shall have a shut-off device or valve inside the building where the service enters the building. There shall be no appurtenances between this valve and the main, other than the curb stop or valve as previously described, or when an outside meter is approved. (Figures 1-2)

505.6.6 Tracer wire shall be installed with all water service lines except when the water service line is type K copper or red brass. The tracer wire shall be installed according to Des Moines Water Works' specifications (see figures 17, 18, ~~18A~~, 20, 20A, 24, 26, and 35). Tracer wire specifications shall be as follows: (revised January 2023)

- a. For open cut installations the tracer wire shall be No. ~~14~~ 12 AWG high strength copper clad steel (HS-CCS) solid single copper conductor with a minimum ~~282~~ pounds break load manufactured by Copperhead Industries, or pre-approved equal tensile strength of 150 pounds. Insulation shall be ~~30-~~ 45 mil, high-density, high molecular weight polyethylene (HDPE) and rated for direct burial, 30 volts, and blue in color.
- b. When Directional Drilling/Boring the tracer wire shall be No. 12 AWG, extra-high strength copper clad steel conductor (EHS-CCS) with a minimum 1,150 pounds break load ~~manufactured by Copperhead Industries, or pre-approved equal~~. Insulation shall be 45 mil, high-density, high molecular weight polyethylene (HDPE) and rated for direct burial, 30 volts, and blue in color.
- ~~b.c.~~ When conduit is used the tracer wire shall be placed inside the conduit. When conduit is not used tracer wire shall be installed alongside the pipe and shall be fastened to pipe with zip ties a minimum of every 5 feet.
- d. ~~e.~~ Anode Ground Rod shall be 1 Lb., 1.315" D x 18.5" L, magnesium drive in anode manufactured by Copperhead Industries 3/8 inch minimum diameter, 8 foot minimum length steel rod uniformly coated with metallically bonded electrolytic copper. Anode Ground Rod shall be spliced to tracer wire using 3M Scotchcast 3832 Buried Service Wire Splice Kit with Burndy KS15 8-14 AWG Splice Bolt DryConn Direct Bury Lug Aqua (SKU 90220). a high-strength, corrosion resistant copper alloy ground rod clamp.
- e. Splice Kits, when approved, shall be DryConn Direct Bury Lug Aqua (SKU 90220)

e.f. Tracer wire connectors shall be Rhino TriView, TracerPed, or approved equal. Wire connectors shall contain three internal terminals with two shunts, be 5 feet in length, white in color, and triangular in shape. Removable top cap, three 2-7/8-inch by 14-inch custom vinyl decals No. SD-5594K, and tri-grip anchor.

#### 505.7 COMBINATION SERVICE PIPES

A property requiring a domestic service line and a fire protection service line may be served from a single tap. When a single tap is used, the fire protection service line shall extend straight from the main into the property to a “tee” located outside the property line with valves on the fire and domestic lines in public right-of-way or the service may split immediately inside the building. The fire service shall run straight through the “tee” to a gate valve immediately following the “tee”. The domestic shall “tee” off the fire service immediately outside the property line or immediately inside the building and have a shut off valve following the “tee”. (Figures 20 & 33)

#### 505.8 MAINTENANCE OF WATER SERVICES

505.8.1 If an existing water service is to be repaired, the materials used for the repair shall be of the type and size specified for new services. If it is determined that half or more of either section of the service, between the main and the curb stop or the curb stop and the building, must be replaced, then that entire section must be replaced with materials as approved for new services and a new stop box complete with stainless steel self-centering rod, stainless steel pin, and Erie style lid must be installed. (See DMWW Specifications) Dissimilar metals may not be used in the repair of a service unless insulators are used.

505.8.2 If an existing 2” or smaller curb stop does not meet Section 505.6.1 of these Rules and Regulations, it does not need to be upgraded unless more than half of the service line from the main to the curb stop or from the curb stop to the building is being replaced.

505.8.3 If an existing arch pattern stop box, or the rod in an existing arch pattern stop box, must be replaced and the curb stop meets the requirements of Section 505.6.1, a rod and an arch pattern stop box which meet current requirements can be used with the existing curb stop. The rod can be attached to the curb stop using a stainless-steel pin or an approved self-attaching coupling.

#### 505.9 PRIVATE WATER MAINS

A private water main is a privately owned and maintained water line used to provide service to multiple service line connections on a single qualifying property. Private water mains may provide fire service, domestic service, or a combination of fire and domestic service to properties such as apartment complexes, shopping centers, and town homes.

Installation of a private water main will only be allowed if all three of the following conditions apply:

- a. No public water main is available to effectively serve the property.
- b. A public water main cannot be installed in public right-of-way to effectively serve the property.
- c. Space is not available to install a public water main in a 40-foot-wide water main easement to effectively serve the property.

Qualifying properties must be a single property owned by a single owner, entity, or association and must not be divided by public right-of-way.

For requirements related to jointly owned private water mains serving multiple qualifying properties see Section 505.9.2.

#### 505.9.1 GENERAL

505.9.1.1 The design and location of new private water mains and alterations to existing private water mains must be reviewed by the Des Moines Water Works prior to construction to insure all Des Moines Water Works requirements are met. Additionally, the requirements of the applicable plumbing codes must also be met.

- 505.9.1.2 Private water mains must be constructed and maintained in accordance with minimum specification prescribed by the Des Moines Water Works Department of Engineering generally consistent with the applicable specification of Des Moines Water Works for its own mains. All private water main materials shall also comply with applicable plumbing code requirements.
- 505.9.1.3 The owner of a private water main shall be solely responsible for all costs of installing, operating, and maintaining the private water main in good condition and shall be solely liable for any and all loss, damage or injury to persons or property arising from the installation, ownership, maintenance, or use of the private water main.
- 505.9.1.4 Des Moines Water Works shall have no responsibility for any costs of installing, operating, and maintaining any private water main and shall not be liable for any and all loss, damage or injury to persons or property arising from the installation, ownership, maintenance, or use of the private water main.
- 505.9.1.5 System development fees for private water mains will be assessed based on the size of the connection to a Des Moines Water Works owned water main unless individual metered service connections are made off of the private water main in which case fees will be assessed as if the individual metered connections were made to a Des Moines Water Works owned water main.
- 505.9.1.6 Private water mains must be located within public access way, pursuant to an easement in a form approved by Des Moines Water Works and filed of record for the benefit of all property served by the main and for the benefit of Des Moines Water Works.



505.9.2 JOINTLY OWNED PRIVATE WATER MAINS

505.9.2.1 A jointly owned private water main is a privately owned and maintained water line used to provide service to multiple service line connections on multiple qualifying properties. Jointly owned private water mains may provide fire service, domestic service, or a combination of fire and domestic service to properties not more than one of which has frontage on public right-of-way.

505.9.2.2 Qualifying properties must be adjoining, must not be separated by public right-of-way, and not more than one of the properties can have frontage on public right-of-way.

505.9.2.3 In addition to the General Requirements set forth in 505.9.1 above the following conditions shall be met for jointly owned private water mains:

505.9.2.3.1 An Iowa Department of Natural Resources Construction Permit must be obtained through Des Moines Water Works for construction of new or alterations to existing jointly owned private water mains prior to the start of construction.

505.9.2.3.2 Maintenance and repair responsibilities and liabilities for jointly owned private water mains serving multiple properties shall be shared among all property owners who own properties which receive service from the main. The liability of such owners shall be joint and several, except to the extent otherwise approved by Des Moines Water Works for good cause. The owners shall jointly and severally indemnify and hold harmless, Des Moines Water Works, and its respective officers, employees, trustees and agents from any and all loss, damage or injury to persons or property arising from the installation, ownership, maintenance, or use of the jointly owned private water main.

505.9.2.3.3 An easement document containing provisions covering maintenance, repair and ownership responsibilities consistent with the provisions of this Rule 505.9, in a form approved by Des Moines Water Works must be executed, must contain a legal description of the affected properties, must run with the land, must be filed of record with the County Recorder, and a copy of the easement must be provided to Des Moines Water Works before the jointly owned private water main connection or a new connection to an existing jointly owned private water main will be made.

505.9.2.3.4 System development fees for connections made to jointly owned private water mains serving multiple properties will be assessed as if the connections were made to a Des Moines Water Works owned water main.

505.9.3 TRANSMISSION MAINS

Private water mains shall not tap Des Moines Water Works owned transmission mains without permission from Des Moines Water Works. Such permission may be contingent upon the requirement to provide redundant connections to the transmission main.

505.9.4 SERVICE LINES SERVED FROM PRIVATE WATER MAINS

505.9.4.1 Buildings, business units or town homes which do not front a public water main shall be served from a private water main meeting the requirements of Section 505.9.

505.9.4.2 Buildings, business units or town homes that front public right-of-way may tap an available public water main or a private main.

505.9.4.3 Individual service lines connected to a private water main shall meet all requirements of Des Moines Water Works Rules and Regulations and applicable plumbing codes.

505.9.4.4 Ownership of individual service lines from a private water main to the building, business unit or town home, including maintenance responsibility, shall be defined in the lease or association agreement.

505.9.4.5 Individual service lines in manufactured home complexes connected to a private water main shall be installed, owned, and maintained by the complex owner.

505.9.5 DUPLEX/FLAT

Duplexes/flats shall not be served through a private water main.

505.9.5.1 Duplexes/flats shall install water service in one of the following ways:

- a. Install individual taps, individual stop boxes, and individual meters for each living unit.
- b. Install one tap, one stop box, and one meter to supply both living units. (See 509.5 Metering of Duplexes/Flats)

For the purpose of this section, multiple duplexes/flats owned by one common owner will be considered an apartment complex and can be served from a private water main.

505.9.6 METERING OPTIONS

Multiple metering options are available for buildings, business units and town homes served from private water mains. In general, only one meter will be installed for each individual service line connected to a private water main. See metering requirements in Section 509.

505.9.7 SUBMITTAL PROCEDURES

505.9.7.1 The following must be submitted, reviewed, and approved before a private water main connection to a Des Moines Water Works owned water main can be approved:

505.9.7.1.1 Site plan including the following minimum information:

- a. Existing Des Moines Water Works owned water mains with main size and relative location with respect to right-of-way lines and existing curb lines.

- b. Location of the proposed taps, valves, hydrants, and fittings.
- c. Routing of proposed private water main within public right-of-way and on private property. In general, valves located on private property for the individual fire and domestic service(s) must be located in paved, non-parking areas such as driveways and sidewalks. Valves must be located in such a manner as to permit operation by the Des Moines Water Works 24 hours a day.
- d. Location of existing and proposed building(s) on property to be served by the private water main.
- e. Legal description of property to be served.
- f. Proposed paved areas including parking lots, driveways, and sidewalks.
- g. North arrow and any dimensions required for clarity.
- h. Include statement that all private water main work shall be completed in accordance with Des Moines Water Works Standard Specifications.

505.9.7.1.2 Fire flow requirements and the riser detail (if applicable for the project).

505.9.7.1.3 Load profile for any domestic or process service line 2" or larger in diameter. (See Section 503.2.1.5)

505.9.7.1.4 City of Des Moines Fire Marshall review form granting approval for the fire service, where applicable.

505.9.7.1.5 "System Development Fee" payment (See Schedule of Charges, Section 511).

505.9.7.1.6 Mechanical details showing the location and type of backflow prevention device to be installed, if required.

505.9.7.2 Once items 1-6 above have been received and approved by Des Moines Water Works the owner's representative may contact Des Moines Water Works to enter a tap request.

505.9.7.3 One (1) "as-built record drawing" of the private water main shall be submitted to the Des Moines Water Works within 30 days of its construction and before the meter is set, unless otherwise approved by the Des Moines Water Works

#### 505.9.8 PRESSURE TESTING

505.9.8.1 All private water mains and appurtenances shall be tested for leakage in compliance with applicable plumbing code requirements.

505.9.8.2 The Plumbing Contractor shall notify Des Moines Water Works when the private water main is installed and ready to be filled for pressure testing and disinfection.

505.9.8.3 The pressure test, when applied to private water mains, may or may not be witnessed by Des Moines Water Works personnel since these services are under the jurisdiction of the Building Inspection Department. Therefore, a certificate of compliance shall be submitted to Des Moines Water Works stating the test pressure has been performed and listing duration of test, total leakage, allowable leakage, and stating that the test met all requirements.

505.9.9 DISINFECTION

505.9.9.1 Following satisfactory pressure tests all private water mains shall be disinfected, sampled, and tested as follows:

505.9.9.1.1 The form of chlorine used and the procedures for disinfection shall be as outlined in AWWA Standard C-651. A minimum free residual chlorine concentration of 10 mg/l shall be maintained for the 24-hour disinfection period.

505.9.9.1.2 After the 24-hour disinfection period, the private water main shall be flushed to remove all free chlorine.

505.9.9.1.3 Immediately following flushing of the private water main and again at least 24 hours after flushing, samples of water from the private water main shall be taken to be tested by Des Moines Water Works. Approximately one sample will be taken for each 1,200 feet of private water main. Test results will be available 24 hours from the time when the samples were submitted for testing. Samples must show the absence of coliform organisms and other contaminants and must meet requirements of the Iowa Department of Natural Resources to be considered acceptable. Water used for flushing and sampling shall be provided by the Des Moines Water Works for up to 2 flushing and sampling procedures, if required, to pass laboratory tests.

If either of the first two sets of samples do not pass laboratory tests, the piping represented by those samples must be flushed and rechlorinated by the Contractor at the discretion of, and as directed by Des Moines Water Works. Any labor and equipment costs incurred by the Des Moines Water Works for further disinfection, flushing, or sampling shall be billed to the Plumbing Contractor.

505.9.10

**WATER MAIN EXTENSIONS FOR BENEFIT OF SPECIFIC PROPERTIES**

(New Provision effective January 1, 2019)

Each water service must tap in front of the property to be served. Not all properties have access to existing water mains. In cases where service is desired and there is no water main, a new water main must be installed at the expense owner or owners requesting service. The need for a water main extension will be evaluated during the water service application process. The property owner or owners will be advised of the need for a water main extension and given the option to proceed with installation at their expense.

If the property owner or owners chooses to proceed with installation of a water main extension the new water main will be installed by a Des Moines Water Works' contracted installer and the cost of the installation, including inspection and administration costs must be paid in full in advance by the property owner or owners.



506 CROSS CONNECTIONS AND BACKFLOW PREVENTION  
(revised January ~~2019~~2023)

506.1 GENERAL

- 506.1.1 Cross connections from any well or other source of water to any piping system connected to the Des Moines Water Works distribution mains are prohibited.
- 506.1.2 The customer shall be responsible for ensuring that no cross connections exist within their premises starting at the water service entrance unless approved backflow prevention is installed.
- 506.1.3 The customer shall prevent pollutants and contaminants from entering their facility's potable water supply system or the Des Moines Water Works distribution mains by all means necessary to prevent backflow.
- 506.1.4 All water-using devices must be so designed that backflow to the distribution system cannot occur.
- 506.1.5 Where harmful contaminants or pollutants are used with any device or process connected to the water system, the customer must install and maintain an approved testable reduced pressure backflow prevention assembly in accordance with these Rules and Regulations and any applicable plumbing code requirements.
- 506.1.6 All permanently installed underground irrigation systems shall contain an approved testable backflow prevention assembly at the water service entrance designed to prevent backflow to the Des Moines Water Works distribution system.

506.1.7 Decommissioning an irrigation system must be done in a manner that does not create a potential future cross connection. Capping an irrigation system outside the building does not meet the requirements. The system must be permanently terminated in the basement at the tee that serves the irrigation line by removing the tee or permanently capping the tee, not by just installing a threaded fitting. All notices and late fees will continue until either the backflow device is tested or correct termination can be confirmed by Des Moines Water Works. See Figures 542-13-D, 13-E.

506.1.78 All newly constructed fire suppression systems shall contain an approved testable backflow prevention assembly at the water service entrance designed to prevent backflow to the Des Moines Water Works distribution system.

506.2 BACKFLOW PREVENTION (Revised January 2021)

506.2.1 All new and existing service lines are subject to the requirements of the State of Iowa and any applicable local Plumbing Codes respecting backflow prevention and in addition are also subject to the specific requirements set forth in these Rules and Regulations. State of Iowa requirements are set forth in the Rules of the Public Health Department, Chapter 25 State Plumbing Code, Rule 25.1, 641 I.A.C 25.5. City of Des Moines requirements are set forth in Section 26-614 of the Des Moines Municipal Code. The Des Moines Water Works acts as an administrative authority under the State of Iowa, City of Des Moines, and other municipal and county plumbing codes, and also under its own authority under Chapter 388, Code of Iowa. The backflow protection requirements of these Rules and Regulations are in addition to any applicable Plumbing Code.

506.2.2 An approved backflow prevention assembly for containment as defined in applicable State and local plumbing codes shall be installed at the domestic water service entrance as a condition of service to all newly constructed or remodeled commercial buildings. For the purposes of these Rules and Regulations, any upgrade to an existing service line is deemed a new service.

506.2.3 An approved backflow prevention assembly for containment shall be installed at the water service entrance in any existing service where an actual or potential cross connection to non-potable or hazardous substances exists, is created, or is identified by the Des Moines Water Works. All commercial, multi-tenant properties are deemed to have a potential for cross connections to non-potable or hazardous substances.

- 506.2.4 Private wells and any piping served by a private well shall be physically disconnected from any plumbing pipes and fixtures that will be connected to Des Moines Water Works' distribution system. If a well will be left in service, no well equipment or piping shall be allowed to remain in the building even if it is physically separated or isolated with a valve. An approved reduced pressure zone backflow prevention assembly will be required at the service entrance.

### 506.3 INTERCONNECTED SERVICES AND/OR FIRE LINES

Where a customer is served by two or more inter-connected services and/or fire lines connected to different Des Moines Water Works distribution mains or different sections of distribution mains, the customer shall install and maintain, at customer's expense, on each service and/or fire line, an approved check valve according to the latest edition of the AWWA Standard C508.

This check valve shall be installed in an access manhole and shall be located on private property just inside the property line. Even though the check valve is located on private property, Des Moines Water Works personnel shall at all times have the right of access to it and the installation of such check valve shall be deemed to grant a license for such access.

### 506.4 ADMINISTRATION & ANNUAL TESTING (Revised January 2022)

- 506.4.1 Backflow protection requirements shall be administered by the Utility Incident Manager of the Des Moines Water Works (the "Backflow Program Manager").
- 506.4.2 The Backflow Program Manager may withhold approval to commence water service to a new service line until all backflow requirements are met.

- 506.4.3 The Backflow Program Manager shall investigate service provided to existing service lines to determine the degree of cross contamination hazard that may exist or potentially exist and may require customers to provide a Water Usage Inventory to allow evaluation of degree of hazard at any existing service line or may request access to the location served for purposes of inspection of water usage. If a customer fails to timely and fully complete a Water Usage Inventory, or fails to provide access upon request, a high hazard condition shall be deemed to exist.
- 506.4.4 If the Backflow Program Manager finds a high hazard condition or other cause to require installation of backflow protection, the Backflow Program Manager shall order installation of the required backflow protection device or devices and shall give written notice by mail or hand delivery to the customer of such order (the "Installation Notice").
- 506.4.5 If the customer fails to complete installation pursuant to an Installation Notice, or to notify the Backflow Manager of appeal pursuant to Rule 500.2 within fifteen (15) days of the date the Installation Notice is mailed or delivered, then the water service at the affected service line shall be terminated until such time as the required installation is made.
- 506.4.6 The customer shall cause each backflow prevention assembly installed in his, her or its facility to be tested annually by a backflow prevention assembly technician registered with the Iowa Department of Public Health. Such test shall be due on an annual testing date for such premises specified by the Backflow Program Manager to the customer (the "Annual Backflow Test Date"). A report of each such annual test shall be submitted to the Backflow Program Manager using the method prescribed by the Backflow Program Manager. The required test and report shall be past due if the test is not performed and the report of the test received by the Backflow Program Manager by the Annual Backflow Test Due Date.

- 506.4.7 An administration fee will be applied to the customer's account annually for each backflow prevention assembly installed at the property as provided in the Schedule of Charges.
- 506.4.8 Any failure to have backflow devices that are categorized as containment backflow prevention assemblies to be tested and a report thereof to be received by the Backflow Program Manager by the Annual Backflow Test Due Date will result in the imposition of late fees as provided in the Schedule of Charges.
- 506.4.9 DMWW may refuse to accept backflow test reports from certain technicians or companies even if the technicians are registered with the Iowa Department of Public Health when, in the experience of the Backflow Program Manager, the technician or company that employs the technician has established a pattern of failing to provide timely, complete, legible, consistent, or accurate test reports to DMWW on behalf of DMWW customers. The Backflow Program Manager may also refuse to accept backflow test reports from certain technicians or companies if it becomes apparent to DMWW that the technician or company are not actually performing backflow tests or are otherwise improperly reporting the results of testing or repairs made to backflow prevention assemblies. DMWW will only disallow test reports from a particular technician or company that employs technicians after DMWW provides notice to the company or the technician, and DMWW provides the company or technician a reasonable opportunity to correct the deficient test procedures.

If the customer, or a company or technician on behalf of a customer, provides a test report from a technician or company that DMWW has determined does not provide acceptable backflow test reports, DMWW will provide the customer with written notice that the test report submitted for the customer is insufficient, and the customer must obtain a backflow test report from another technician or company. DMWW will give the customer an extension of 30 days from the date the customer receives the notice specified in this section, or 30 days from the Annual Backflow Test Date, whichever is later, to provide a backflow test report from another technician or company. The deadline for providing a complete and accurate test report may be extended in the discretion of the Backflow Program Manager for good cause.

507 PUBLIC FIRE PROTECTION

507.1 OPERATION OF FIRE HYDRANTS

507.1.1 Public fire hydrants are installed primarily for fire protection. They may also be used by the Des Moines Water Works to flush water mains and by other governmental agencies for street and sewer flushing.

507.1.2 Others may use hydrants by license agreement with the Des Moines Water Works under the conditions and rates established by the Board for such services. Hydrants shall not be used for any other purpose without express permission of the Des Moines Water Works.

507.2 PENALTY FOR UNAUTHORIZED USE

Anyone who shall operate or attempt to operate a fire hydrant without permission of the Des Moines Water Works may be prosecuted as provided by law and outlined in Section 511-Schedule of Charges.

507.3 RELOCATION OF PUBLIC FIRE HYDRANTS

507.3.1 Where an existing public fire hydrant interferes with a property owner's use or proposed use of his property, the hydrant may be relocated at the property owner's expense. Approval from the Fire Protection Authority and the Des Moines Water Works must be obtained prior to any work being done.

507.3.2 Where the grade of an existing street or property is changed at the request of the property owner, such that an existing public fire hydrant will not be at the proper elevation with respect to the ground, the hydrant will be raised or lowered at the expense of the property owner.

507.4 OBSTRUCTION OF HYDRANTS

507.4.1 Nothing shall be erected or planted which shall interfere with the use of a fire hydrant. Sufficient clearance shall be maintained around the hydrant to permit easy connection of hoses and full circle operation of the hydrant using regular hydrant wrenches and hose spanners.

507.4.2 Shrubs, trees, flowers, or weeds shall not be planted nor permitted to grow so as to prevent full view of a fire hydrant from the street.

507.5 PAINTING OF PUBLIC FIRE HYDRANTS

Painting of fire hydrants will be done by the Des Moines Water Works only. The hydrant bonnets are color coded in accordance with National Fire Protection Association (NFPA) standards to show the amount of water that can be discharged out of them.

<u>BONNET COLOR</u>	<u>GPM</u>
Green	1,000 or greater
Orange	500 - 1,000
Red	less than 500

In addition, hydrants on feeder mains shall have caps painted the same color as the bonnet.

507.6 Red banding on hydrants will be done by Des Moines Water Works personnel only. This will show that these are out of service.



## 508 PRIVATE FIRE PROTECTION

### 508.1 DEFINITION OF PRIVATE FIRE PROTECTION SYSTEM

Private fire protection systems consist of a fire service connection to the Des Moines Water Works main and any or all of the following: standpipe(s), automatic sprinkler system(s), fire pump(s), or fire hydrant(s).

### 508.2 OPERATION OF PRIVATE FIRE PROTECTION SYSTEMS

Private fire protection systems are installed primarily for fire protection for the property on which they are installed and are not to be used for any other purpose without the express written permission of the Des Moines Water Works.

### 508.3 PERMIT FOR INSTALLATION OF PRIVATE FIRE PROTECTION SYSTEM

See Section 503.7.1.

### 508.4 DESIGN OF PRIVATE FIRE PROTECTION SYSTEMS

Fire service connections and fire lines shall comply with applicable portions of Sections 505.3, 505.4, and 505.5 of these Rules and Regulations.

### 508.5 COMBINATION SERVICE FROM FIRE LINE

A combination domestic and fire line as outlined in Section 505.7 of these Rules and Regulations may be installed if approved by the owner's fire underwriter. Domestic service branches and residential fire sprinkler branches shall be metered in accordance with Section 509 of these Rules and Regulations.

### 508.6 ALTERATIONS TO PRIVATE FIRE PROTECTION

When requested by the owner and approved by the Des Moines Water Works, a private fire system can be altered by a building owner who shall be responsible for any fees charged by the Des Moines Water Works.

508.7 PRIVATE FIRE HYDRANTS (revised January 2020)

- 508.7.1 Fire hydrants located on privately owned property, or on streets not dedicated to public use, are the responsibility of the owner and are to be used for fire protection only. These hydrants are designated "private fire hydrants".

Where it is the owner's intention that these hydrants be used by the public fire department, these hydrants shall conform to the requirements of Section 507 of these Rules and Regulations and also to the Des Moines Water Works specifications. Private fire hydrants shall be red in color. Copies of the Des Moines Water Works hydrant specifications are on file at Des Moines Water Works, 2201 George Flagg Parkway, Des Moines, Iowa. (Figure 24)

- 508.7.2 Private hydrants installed at the owner's expense, in accordance with these Rules and Regulations, for use by public fire departments, must be reviewed by the Des Moines Water Works and the Fire Department. Replacement of obsolete hydrants and repair or replacement of hydrants, broken parts, or damage caused by physical abuse or improper operation will be done at the owner's expense. Standards are available upon request to Des Moines Water Works.

- 508.7.3 Each fire service connected to the Des Moines Water Works' owned and/or operated distribution system shall be charged at the rate established by the Board. For looped systems, an annual charge shall be collected for each connection to the Des Moines Water Works' owned and operated distribution system. (See Section 511.5)

508.8 PENALTIES FOR IMPROPER USE

When the owners or occupants of any premises are found to be using water from a private fire protection system for purposes other than fire protection, the Des Moines Water Works may discontinue fire service. The Des Moines Water Works also reserves the right to require the installation of an approved fire line meter, or an additional line and meter, at the owner's expense. A penalty may also be imposed against the property owner at a rate as established by the Board.

## 508.9 RESIDENTIAL FIRE SERVICES

- 508.9.1 No fire service shall be allowed on a water service line smaller than 1" in diameter.
- 508.9.2 A backflow device is required on all residential fire services except web fire sprinkler systems.
- 508.9.3 Unmetered residential fire services shall be subject to annual fire protection charges at a rate established by the Board (See Section 511.5)
- 508.9.4 Web fire sprinkler systems require a single UL listed and/or FM approved fire service/domestic meter for the combined domestic and fire sprinkler system (Figure 33B). The Web fire sprinkler system does not require a backflow device because the sprinkler system is intermingled with the home's cold-water plumbing system to provide water to the both the water fixtures and fire sprinklers.
- Web fire services can only be used on 1" through 2" diameter service lines. A web fire sprinkler system cannot be used if the fire service/domestic meter cannot accommodate the maximum required fire flow of the designed fire sprinkler system.
- 508.9.5 Dedicated fire services (Fire service only) are required to be metered with a UL listed and/or FM approved fire service meter, unless the fire service meter cannot accommodate the maximum required fire flow of the designed fire sprinkler system (Figure 33A). Unmetered residential fire services shall be subject to annual fire protection charges.
- 508.9.6 Combination fire & domestic services are required to be metered with a UL listed and/or FM approved fire service meter unless the fire service meter cannot accommodate the maximum required fire flow of the designed fire sprinkler system. Unmetered residential fire services shall be subject to annual fire protection charges. A combination fire and domestic service shall split before the domestic meter (Figure 33).
- 508.9.7 Irrigation systems are not allowed to tap a residential fire sprinkler system.

508.10 COMMERCIAL FIRE SERVICES (Inside Building)

- 508.10.1 No fire service shall be allowed on a water service line smaller than 1" in diameter. Des Moines Water Works retains the discretion to approve any connection for commercial fire service based on the water pressure available at the location. Des Moines Water Works may refuse to permit a connection for commercial fire service if it determines that the available water pressure is insufficient. If available pressure is close to the threshold deemed advisable for commercial fire service, Des Moines Water Works may permit the installation of the fire service if the applicant executes a release and waiver of claims against Des Moines Water Works.
- 508.10.2 A combination fire and domestic service shall split before the domestic meter (Figures 20 & 20A).
- 508.10.3 A backflow device is required on all commercial fire services whether potable pipe or black iron pipe is used.
- 508.10.4 Each fire service connected to the Des Moines Water Works' owned and/or operated distribution system shall be charged at the rate established by the Board. For looped systems, an annual charge shall be collected for each connection to the Des Moines Water Works' owned and operated distribution system. (See Section 511.5)
- 508.10.5 Web fire sprinkler systems are not allowed for commercial properties.
- 508.10.6 Irrigation systems are not allowed to tap a commercial fire sprinkler system.

509 WATER METERS

509.1 GENERAL (Revised January 2021)

All connections to DMWW's water mains must be metered except:

- 509.1.1 Water authorized by the Des Moines Water Works for the use of other governmental subdivisions for the purpose of firefighting or street and sewer flushing.
- 509.1.2 Water used in flushing or maintaining new and existing mains under the supervision of the Des Moines Water Works.
- 509.1.3 Water for special purposes or demonstrations when approved by the CEO and General Manager, or designated representative.
- 509.1.4 If a straight connection is used in place of a meter for testing the plumbing, the straight connection must be removed before the Plumbing Contractor leaves the premises. If it is necessary to leave the straight connection in for any reason, it is the Plumbing Contractor's responsibility to call the Supervisor of Field Customer Service at Des Moines Water Works and request permission to do so. Failure to do so may result in a penalty levied against the customer.
- 509.1.5 Once a building is framed and sheeted the contractor is required to call Des Moines Water Works to have a construction meter set. This meter will be in place prior to any water being used. Once this meter is in place it may be used to settle ditches and foundations as well as being used for general purpose needs. Failure to do so may result in a penalty levied against the customer.

509.2 RESIDENTIAL

- 509.2.1 Each single-family dwelling must have its own meter.
- 509.2.2 Residential fire sprinkler lines must be metered using a UL listed, FM approved water meter accepted for use on fire services and domestic water lines.

509.3 MULTI-UNIT METERING (TOWNHOMES, CONDOMINIUMS, APARTMENTS, AND SHOPPING CENTERS)

There are four options for metering multi-unit properties, such as townhomes, condominiums, apartments, and shopping centers as follows:

- 509.3.1 Option 1. Install meters on each individual water service to each individual unit. When the individual water service option is utilized, no master meter will be installed. Each water service must comply with these Rules and Regulations for water service installation and Des Moines Water Works must be given legal access to the stop box and meter.
- 509.3.2 Option 2. Where only one stop box exists for multiple units, a meter manifold serving multiple units may be installed in a common room when all of the following conditions exist (Figures 12A & 12B):
  - 509.3.2.1 Meters must be installed in a restricted, permanently heated common room at ground level or in the basement with an outside wall and outside keypad access. Des Moines Water Works must be given and will retain on file the code to gain access. Keys and key cards will not be allowed.
  - 509.3.2.2 Each service must be permanently marked with its corresponding unit.
  - 509.3.2.3 If the property is a rental property when a tenant or customer final their account, the unit will go back in the landlord, association, or property manager's name.
  - 509.3.2.4 If the property is a rental property the landlord or property manager must have on file with Des Moines Water Works a permanent indemnity and waiver agreement for water restoration covering all units. This agreement will allow Water Works to restore water at the tenant's request without verifying the tenant is home, and would further specify the owner assumes all liability for damages in conjunction with a potential burst pipe, open faucets, etc.

- 509.3.2.5 Individually metered accounts in multi-unit buildings will follow regular Des Moines Water Works collections policies, including the potential for service termination at the meter, or a lien on the property as allowed by Iowa law or both.
- 509.3.2.6 All meter settings in a multi-unit building are required to have a swinging check valve installed after the outlet valve. This will prevent the water meters from running backwards. Thermal expansion must also be addressed and installed if needed.
- 509.3.3 Option 3. Master meter the private water main, with the property owner responsible for all water charges on the master meter.
- 509.3.4 Option 4. Master meter the private water main and contracting with Des Moines Water Works to provide individualized unit billing and collecting of the rates and charges associated with that water main. Terms and conditions of such service shall be subject to negotiation, execution, and delivery of a mutually acceptable agreement. This arrangement requires that submeters are installed after the master meter. The Des Moines Water Works totals the water usage from those individual meters and subtracts it from the master meter. If a difference exists, the resulting balance will be billed to the owner of the private main. In addition, any unpaid balances on the submeters remaining at fifty (50) days after their rendering, including but not limited to bills for surcharges, shall be transferred to the master or owner's account and shall be paid by the owner in accordance with DMWW's normal collection terms. Any collection efforts with respect to individual units thereafter shall be made solely by the service main owner.

#### 509.4 MANUFACTURED HOME COMPLEXES (revised January 2023)

There are two options to metering manufactured home complexes as follows.

509.4.1 Option 1. Install meters on each individual water service to each individual unit. Individual- meters shall be installed in individual pits (Figure 16A or 16C). When the individual water service option is utilized, no master meter will be installed. Each water service must comply with these Rules and Regulations for water service installation and Des Moines Water Works must be given legal access to the stop box and meter.

509.4.2 Option 2. Master meter the private water main serving the complex.

#### 509.5 METERING OF DUPLEXES/FLATS

509.5.1 Metering of duplexes/flats with two separate water service lines shall be done with two separate water meters and the property owner may pay both bills; (Figure 5) or a tenant may have an individual account and pay his/her respective bill. If only one water service is installed, the property owner will be responsible for the water bill. (Figure 6)

#### 509.6 TYPES OF METERS

The type and make of meter used will be specified by the Des Moines Water Works. With the exception of irrigation only meters, when a compound, turbine, fire, or special metering device is required for proper metering, special piping will be required to facilitate annual meter testing. (Figures 17 & 18)

#### 509.7 SIZE OF METERS

509.7.1 Meter sizing shall be based on flow requirements only and not on pressure loss through the meter. The prospective user or his/her agent shall supply the following information before a meter can be sized.

- a. Maximum rate of flow
- b. Average rate of flow
- c. Minimum rate of flow



Meters, 5/8" through 1 1/2" will be sized by the Des Moines Water Works based on the recommended applications listed below.

Meter Size	Recommended Applications
5/8"	Demand flow rates 1/8 to 20 gpm Maximum continuous demand 10 gpm
3/4"	Demand flow rates 1/4 to 30 gpm Maximum continuous demand 15 gpm
1"	Demand flow rates 3/8 to 50 gpm Maximum continuous demand 25 gpm
1 1/2"	Demand flow rate 3/4 to 100 gpm Maximum continuous demand 80 gpm

509.7.2 Fire service meters and meters 2" or larger must be sized by the Des Moines Water Works based on information provided by the owner.

#### 509.8 OWNERSHIP

All water meters to be used for billing purposes must be provided by the Des Moines Water Works. The Des Moines Water Works reserves the right to read, inspect, or test the meter at any reasonable time or with such frequency as deemed necessary. Failure by the customer to allow reasonable access to the meter may result in termination of water service. For sewer deduct/irrigation meters see section 509.15.

#### 509.9 INSTALLATION

509.9.1 Water meters will be installed by the Des Moines Water Works without charge, except as otherwise provided in these rules or as otherwise provided under specific water or other service agreements. On all meter settings, a properly bonded ground consisting of a copper cable or wire not less than 1/8" diameter shall be installed across the meter setting to avoid electrical shock when the meter is removed. (Figure 13)

509.9.2 Meters will be installed on a properly drained concrete or dirt floor allowing water to escape or drain at the time of a meter change or from leakage without causing damage to finished areas.

- 509.9.3 All water meters will be sealed using an approved cable and locking device. Any meter found to have the sealing device altered or removed will be subject to penalty as outlined in the schedule of charges Section 511.12. "Charges for Unauthorized Use of Water/Meter Tampering".

509.10 METER VALVES (revised January 2020)

Water meters shall be equipped with a shut-off at each end. Water meters larger than 3" shall have gate valves attached at each end. Spacing required between the inlet and outlet shut-offs for meter installation is as follows: (Figures 1 & 2)

<u>Size of Meter</u>	<u>Distance face to face of stops</u>
5/8"	11 3/4"
3/4"	13 3/4"
1"	15 3/4"
1 1/2" or 2" screw type	30"
1 1/2" flanged type	13 1/4"
2" flanged type	17 1/4"

- 509.10.1 When 1/4-turn ball valves or quick closing valves are used, they shall be operated in such a manner that pressure surges will not be transmitted to the Des Moines Water Works' distribution system.
- 509.10.2 Not more than 1 shut-off will be allowed between where the service enters the building and the meter. (Figures 1 & 2)

509.11 METER LOCATION (revised January 2022)

- 509.11.1 All water meters installed within buildings shall be in a horizontal position, at a height where they may be easily maintained and as near as possible to the point where the water service enters the building.
- 509.11.2 Meters shall not be exposed to damage by freezing. After a meter has been removed due to freezing, the customer is responsible for making corrections to prevent freezing before a replacement meter will be installed.

509.11.3 Water meters shall be accessible at all times. No appliances or other fixtures can be built over or in front of the meter setting. If obstructions exist which interfere with meter reading or maintenance of the meter, water service may be terminated until the obstructions are removed.

509.11.4 Installation of a 5/8" through 1" meter shall be as follows:

A 3/4" Pex tubing conduit with pull string shall be installed from the meter to a location deemed appropriate for meter reading equipment, as determined by DMWW. It is the owner/contractor responsibility to ensure a wire can be run to the outside using the 3/4" Pex.

The inlet valve for the meter setting shall not be more than 18" from the point where the service enters the building. (Figures 1-2 & 7-10)

509.11.5 Installation of 1 1/2" to 2" meters shall be as follows:

The inlet valve for the meter setting shall not be more than 36" from the point where the service enters the building.

509.11.6 Meter pits for 5/8" to 2" meters may be required if unusual circumstances exist. If required, the meter pit must meet the following requirements and be installed and maintained at the owner's expense.

Before an existing meter pit is re-used or a new one installed, the Des Moines Water Works shall inspect the proposed installation and determine if the meter pit is necessary to service the customer. Existing meter pits to be reused must meet current meter pit requirements and must be safe to enter.

509.11.6.1 A meter pit is required:

- a. Where a location satisfactory to the Des Moines Water Works is not available inside of the building
- b. When the length of the water service on private property exceeds 250 feet. This does not apply to private water mains (see Section 505.9) or

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- c. When the water service is installed within an easement and crosses property lines.
- d. In rural areas, where the roadway is constructed with a rural cross section (ditches on either side of the road with no curb), subject to the following provisions. A meter pit will not be required in rural areas where the roadway is constructed with an urban cross section. In these areas the meter must be set inside the building (provided the setback limit of 250' is not exceeded, in which case a meter pit will be required). (moved from previous Section 514).

509.11.6.2 Location of pit:

- a. Inside City Limits in Des Moines Metro Area:

Meter pits shall be located on private property as near as practical to the property line.

- b. Location of pit Outside City Limits in Des Moines Metro Area :

The meter pit shall be located 10' from the water main when the water main is in easement and the property to be served is on the same side of the road as the water main. The meter pit shall be located 10' into private property when the water main is in the ROW or the property to be served is on the opposite side of the road as the water main. (See Figure 37). (moved from previous section 514).

509.11.6.3 Pit Requirements: (revised January 2020)

- a. Inside City Limits in Des Moines Metro Area:
  - a. 5/8" through 1" meters can utilize a standard meter pit see figure 16 or a Mueller/Hunt Thermal-Coil meter pit see figure 16 C.

1 1/2" and 2" meters will require a standard meter pit see figure 16.

Under no circumstance will a Mueller/Hunt Thermal Coil meter pit be installed within 5 feet of a driveway, in a sidewalk or any portion of a roadway.

- b. Outside City Limits in Des Moines Metro Area (moved from previous section 514):

Meter pits shall be Mueller / Hunt Thermo-Coil Meter Box, tandem set design for a water meter in position one and a pressure-reducing valve in position two. Provide 66" deep pit 15" diameter for 5/8" meters or 18" diameter for 3/4" or 1" meters. Provide meter pit with lock-wing angle ball valve inlet, Watts 5M3-Z6 or approved equal 3/4" pressure reducing valve, dual check valve meter outlet, 4" insulation pad, flat non-locking metal lid, and a second flat non-locking metal lid as the base.

See detail of Mueller/Hunt Thermal-Coil Meter Pit at Figure 16A.

509.11.6.4 Pit abandonment:

When a meter is removed from a meter pit and the pit is not to be re-used, it is the responsibility of the property owner to see that the rim and lid are removed, the valves are removed from the service line and the pit filled in to grade with an appropriate substance. Before the pit is filled in, the property owner must notify the Des Moines Water Works so that it may verify that the valves have been removed from the service line.

- 509.11.6 For meters set inside of buildings, meters 3" and larger shall be set level and in a horizontal position on a solid floor or solid base not more than 24" high. There must be at least 6' clearance above and not less than 12" behind the meter. Meters may be suspended or supported by the piping. There shall be an adequate floor drain or pit within 5' of the meter setting for disposal of water. An outside test header will be installed in a suitable location so that the meter can be tested annually, with the exception of irrigation only meters. (See Bypass and Test Header Specifications, Figure 21)
- 509.11.8 No devices or connections of any kind, such as regulators or check valves, shall be installed between the meter outlet and the test tee.

509.12 METER PITS FOR 3" METERS AND LARGER (Revised January ~~2022~~2023)

Where unusual circumstances exist, or the length of the water service on private property exceeds 250 feet, an outside meter may be required. If required, the meter must be installed in a pit constructed at the owner's expense to meet the following requirements. See figures 17-18.

- 509.12.1 The pit shall be of reinforced concrete, pre-cast concrete or concrete block construction. See Figures 17 – 18.
- 509.12.2 The pit shall be not less than six, or more than eight, feet in depth.
- 509.12.3 The pit shall have concrete roof and floor slabs.
- 509.12.4 The pit shall have a 48" X 48" square hatch with compression spring operators. If meter pit is in the Right of Way, a traffic rated lid is required instead of a hatch.

- 509.12.5 The pit roof slab shall be removable for meter installation or a secondary access large enough to allow the meter to be removed shall be provided directly over the meter setting.
- 509.12.6 There shall be a minimum distance of 10' between the meter pit and any hydrant or standpipe.
- 509.12.7 A 3/4" Pex tubing conduit with pull string shall be installed from the meter to a location deemed appropriate for meter reading equipment, as determined by DMWW. It is the owner/contractor responsibility to ensure a wire can be run to the outside using the 3/4" Pex.

#### 509.13 METER BY-PASS

- 509.13.1 By-pass lines for emergency service will not be permitted around meters 2" in diameter or less except in cases where the customer also provides a meter in the by-pass line or when a turbine or compound meter is used.
- 509.13.2 By-pass lines around meters 3" and larger must be locked and sealed to prevent accidental usage.
- 509.13.3 By-pass lines must be designed, valved, and installed in accordance with these Rules and Regulations. (Figures 17-18 & 21). No by-pass will be required on a 3" or larger meter if it is an irrigation only meter.

#### 509.14 MAINTENANCE

The Des Moines Water Works will provide the following maintenance on the meter:

- 509.14.1 Residential:
  - 509.14.1.1 Repair or replace the meter with a new or rebuilt meter of the same size if the meter becomes inoperative through no fault of the customer. If there is evidence of physical damage externally or to the interior of the meter from hot water, freezing, or other casualties, through carelessness or neglect by the customer, the customer will be billed for the cost of repairs.

509.14.1.2 The Des Moines Water Works may test or exchange the meter periodically to ascertain its accuracy.

509.14.1.3 The Des Moines Water Works will test any meter upon application by the customer. If the meter testing results fall within American Water Works Association (AWWA) standards, the customer will be billed a fee equal to one (1) hour of labor at the labor rate as established by the Board and provided in Section 511 of these Rules and Regulations.

509.14.2 Industrial and Commercial:

509.14.2.1 Positive displacement meters 2" and smaller will be maintained in the same manner as residential meters.

509.14.2.2 Compound and Turbine meters 3" and larger will be repaired at no cost to the property owner providing there is no evidence of physical damage as described above.

509.14.2.3 Water meters shall be equipped with shut-off valves at each end. Water meters larger than 2" shall have shut-off valves attached at each end and the outlet end of the meter shall be provided with a 4" tee fitting for testing purposes. The branch of the tee shall face upwards and be provided with a 4" valve threaded cap and plug. (Figures 17, 18 & 21)



509.15 SEWER DEDUCT/WATER ONLY METERS (revised January 2023)

509.15.1 Sewer deduct meters are meters that measure a portion of the water which has already been metered by another meter for deduct billing purposes. The installation of these meters will be performed as permitted by the appropriate local ordinance for the purpose of measuring water not returning to the sewer system. Meters need not be located at or near the service entrance. Property owners are responsible to provide and install sewer deduct meters, but meters must be approved (manufacturer, make, and model) by DMWW in order to ensure they are readily compatible with DMWW's reading and billing systems. All maintenance, repairs, and testing of sewer deduct meters will be by the Des Moines Water Works, at the owner's expense. Sewer deduct meters apply to DMWW's service areas of City of Des Moines, City of Windsor Heights, City of Cumming, City of Runnells, and unincorporated Polk County. Sewer deduct meters that are connected to the same service line as the domestic meter, shall be billed to the same account as the domestic meter.

509.15.2 Water only meters are meters that have not had the water previously registered by another meter. The amount of water measured by the water only meter is added to the bill but is not charged sewer rates. Such meters are installed on a tee off the inlet service line right after the inlet valve. Water only meters must be approved (manufacturer, make, and model) by DMWW in order to ensure they are readily compatible with DMWW's reading and billing systems. Water only meters that are connected to the same service line as the domestic meter, shall be billed to the same account as the domestic meter. Water-only meters are permitted only in the City of Pleasant Hill.

509.15.3 In cases where there is not a master meter, for multi-unit development, there must be a sperate tap and service line for irrigation that meet specifications in DMWW's Rules and Regulations.

#### 509.16 SUB-METERS (revised January 2019)

Sub-meters are meters installed by the customer to measure water usage downstream of Des Moines Water Works' meter. Sub-meters are not read or billed by the Des Moines Water Works unless under contracted services. Sub-meters may be repaired by Des Moines Water Works at the owner's expense, provided they are delivered to Des Moines Water Works. All meter settings are required to have a swinging check valve installed after the outlet valve. This will prevent the water meters from running backwards. Thermal expansion must also be addressed and installed if needed.

#### 509.17 CHANGES IN LOAD

In cases where changes in water consumption result in a meter being substantially undersized or oversized, Des Moines Water Works may need to install a larger or smaller meter. Any alterations required in the meter setting will be at the owner's expense.

#### 509.18 HYDRANT METERS

##### 509.18.1 ELIGIBILITY AND REQUIREMENTS

The Des Moines Water Works may issue hydrant meters to qualified contractors or civic organizations when alternate methods of water supply are not available. The Water Board reserves the right to decline hydrant meter service to any applicant not deemed qualified to meet the requirements of this rule. Meters shall be issued for a specified time period not to exceed eight (8) months. At the time of application, the applicant shall state the location and purpose for which the meter will be used, the name and telephone number of a contact person, and why water is not available from another source.

As used in this rule, "hydrant meter" shall mean and include a hydrant meter together with valves, fittings, and operational tools.

All hydrant meters will be handled on a first-come/first-serve basis. City, County, and State projects will be given higher priority.

Des Moines Water Works reserves the right to determine the proper size of the hydrant meter based upon the use and location of the hydrant meter.

Des Moines Water Works reserves the right to determine the use of a hydrant meter to serve a concrete batch plant. If a concrete batch plant is going to be in service for three (3) months or longer it will not qualify for a hydrant meter. It will be required to install an individual service line in accordance with section 503.1 of the Des Moines Water Works Rules and Regulations.

All hydrant meters issued from Des Moines Water Works shall be used only in the areas served directly by Des Moines Water Works. Des Moines Water Works' hydrant meters may NOT be used in other suburbs or areas that provide their own hydrant meters.

Des Moines Water Works reserves the right to inspect and test hydrant meters at its discretion. The applicant must make the hydrant meter available within 48 hours of any inspection request.

It is the responsibility of the applicant to use the hydrant meter in a safe and proper manner and to keep the hydrant meter secured at all times, even when it is not in use. Unsecured hydrant meters may be repossessed by Des Moines Water Works.

#### 509.18.2 DEPOSIT AND AGREEMENT

A deposit, as established by the Board, must be paid at the time a hydrant application is made with Des Moines Water Works at 2201 George Flagg Parkway. Des Moines Water Works will hold this deposit as security for the full performance of the applicant's obligations until the applicant returns the hydrant meter to Des Moines Water Works. Upon return of the hydrant meter, and payment of the final bill, the deposit will be mailed to the applicant upon request, less any outstanding charges due to Des Moines Water Works.

A hydrant meter shall at all times remain the property of the Des Moines Water Works and shall be issued to the applicant under the terms of a bailment and temporary water service agreement, which must be signed by the applicant before the hydrant meter is issued.

509.18.3 OBTAINING HYDRANT METER

To reserve a hydrant meter, arrangements should be made by calling Des Moines Water Works at 515-283-8700. It will be the responsibility of the applicant to pick up the meter according to the instructions provided by Des Moines Water Works. Meters can be obtained from 8:00 a.m. to 3:00 p.m., Monday through Friday, except holidays.

509.18.4 DAMAGE TO DES MOINES WATER WORKS PROPERTY

It will be the obligation of the applicant to protect the hydrant meter, hydrant, and other Des Moines Water Works' property from damage due to weather or use of the facility. The repair of any damaged property will be completed by Des Moines Water Works and charged to the applicant.

509.18.5 METER READING (revised January 2019)

The applicant shall report a monthly hydrant meter read to DMWW according to the instructions provided.

509.18.6 HYDRANT METER TESTING

After 8 months of use or at the request of the Des Moines Water Works, whichever is first, the meter shall be returned to Des Moines Water Works according to the instructions provided. The applicant will be notified when the testing has been completed and whether the hydrant meter can be picked up.

509.18.7 CHARGES AND FEES (revised January 2019)

The following charges and fees will apply as outlined in Section 511, Schedule of Charges:

- a. A monthly hydrant meter availability fee will be charged based on the size of the hydrant meter.
- b. If the applicant fails to call in a monthly meter read, a daily fee will be assessed for each a read is not called in.
- c. If the applicant fails to return the assigned hydrant meter on or before the agreed date, a daily late fee will be assessed.

Rates for water consumption will be applied according to the Inside City of Des Moines water rate structure as defined by the Des Moines Water Works Board of Trustees.

509-18.8 FILLING OF SWIMMING POOLS

Hydrant meters will not be provided to individuals or businesses for the purpose of filling swimming pools. If a customer wants their pool filled, Des Moines Water Works will supply the materials and labor to fill a swimming pool at the current hourly rate (labor, vehicle, and water) as specified in the Schedule of Charges section of the Des Moines Water Works Rules and Regulations. A 24-hour advance notice will be required to allow for proper staffing for this task.

509.18.9 DISQUALIFICATION

Failure to comply with Section 509.18 of these Rules and Regulations shall be grounds for the applicant to be immediately disqualified from continued use of a hydrant meter. Future use of a hydrant meter may also be forfeited. Upon disqualification, the meter will be surrendered to the Des Moines Water Works and deposit retained as liquidated damages.

509.19 REMOTE METER INSTALLATION/REPAIR

- 509.19.1 If a customer does not permit the installation or repair of our meter reading equipment upon request, then the customer shall be notified that water service will be discontinued in accordance with the procedures then in effect.

510 SERVICE MAIN EXTENSION

Eliminated and incorporated in Section 505.9 effective November 2013.

## 511 SCHEDULE OF CHARGES

### 511.1 CHARGES

The Board of Trustees, from time to time, may establish, abolish, or change charges for services and/or equipment provided to its customers. These charges shall be reviewed periodically and based as much as possible on costs of service.

### 511.2 ADJUSTMENTS TO CHARGES

The Board of Trustees grants the CEO and General Manager, or his designee, authority to adjust charges on a case-by-case basis where in his or her judgment the case warrants an adjustment.

### 511.3 ESCALATION OF CHARGES

Charges and fees listed in the Schedule of Charges, will be escalated annually based on the increase in the Engineering News Record Construction Cost Index.

### 511.4 METERED WATER AND WATER AVAILABILITY (Revised January 2021)

All water shall be supplied to customers by meter measurement, except as herein otherwise provided, at the rates established by the Board. Rates shall be structured and established to recover the cost of service to a customer or class of customers, and may be multi-factor, including one or more variable components, and one or more fixed components. Prevailing rate schedules may be obtained from Des Moines Water Works or by visiting [www.dmww.com](http://www.dmww.com), clicking on "Customer Service, Rates & Service Areas" and then selecting the service area in question.

Water availability is charged based on the size of the meter approved for the property and is charged regardless if water service is active or inactive.



511.5 FIRE PROTECTION CHARGES

Table 511.5 Fire Protection Charges (effective January 1, ~~2022~~2023)

DES MOINES WATER WORKS FIRE PROTECTION CHARGES		
Annual charges for all unmetered fire protection connections shall be as follows:		
Size of <u>Connection</u>	<u>Inside City</u>	<u>Outside City</u>
1"	\$5.00	<del>\$7.00</del> <u>8.00</u>
2"	<del>\$18.00</del> <u>19.00</u>	<del>\$25.00</del> <u>30.00</u>
3"	<del>\$40.00</del> <u>45.00</u>	<del>\$60.00</del> <u>65.00</u>
4"	<del>\$70.00</del> <u>75.00</u>	\$110.00
6"	<del>\$160.00</del> <u>170.00</u>	<del>\$240.00</del> <u>260.00</u>
8"	<del>\$290.00</del> <u>300.00</u>	<del>\$430.00</del> <u>450.00</u>
10"	<del>\$450.00</del> <u>480.00</u>	<del>\$680.00</del> <u>720.00</u>
12"	<del>\$640.00</del> <u>680.00</u>	<del>\$970.00</del> <u>1,025.00</u>

511.5.1 Annual charges for all unmetered fire protection connections shall be at rates established by the Board.

511.5.2 Fire protection service charges will be determined as follows:

511.5.2.1 One tenant + one building + one connection to Des Moines Water Works owned and/or operated distribution system = one charge according to size.

511.5.2.2 One tenant + one building + more than one connection to Des Moines Water Works owned and/or operated distribution system = each connection charged by size.

511.5.2.3 Shopping centers, industrial, and apartment complexes shall be charged for each fire service connection to the Des Moines Water Works owned and/or operated distribution system by size.

511.5.3 An additional charge shall be made for filling gravity or pressure storage tanks based on the total storage capacity of such tanks at the prevailing rate charged for water at the location.

511.5.4 The annual stand-by charge for fire service to a private property shall be paid by the owner of the property which is served. If such property is owned by a public agency or it is a part of a public thoroughfare, the responsible agency or government desiring to establish and maintain the service must agree in writing to make the payments and show evidence of their ability to make proper levy to obtain funds for such purpose.

511.6 SYSTEM DEVELOPMENT FEES

Table 511.6 System Development Fee Structure (effective January 1, ~~2022~~2023)

System development fees are required for all new water services in the City of Des Moines, Pleasant Hill, Cumming, Alleman, and other areas as defined below. System development fees are charged to aid in covering the costs associated with distribution, pumping, and storage facilities that have been or will be constructed to support new and additional demands on the water system that arise with new customers and connections. System Development Fees will be based on the tap size and are as follows:

**Des Moines**

	1 inch	2 inch	3inch*	4 inch	6 inch	8 inch	12 inch
Metered							
Connections:	<del>\$520</del> <u>550</u>	<del>\$1,300</del> <u>1,375</u>	<del>\$4,125</del> <u>4,350</u>	<del>\$11,900</del> <u>12,500</u>	<del>\$31,100</del> <u>32,900</u>	<del>\$64,900</del> <u>68,600</u>	<del>\$103,700</del> <u>109,600</u>
Fire Service							
Connections:	<del>\$170</del> <u>180</u>	<del>\$440</del> <u>460</u>	n/a	<del>\$4,000</del> <u>4,225</u>	<del>\$10,300</del> <u>10,900</u>	<del>\$21,700</del> <u>22,900</u>	<del>\$34,600</del> <u>36,500</u>

**Pleasant Hill**

	1 inch	2 inch	3 inch*	4 inch	6 inch	8 inch	12 inch
Metered							
Connections:	<del>\$1,550</del> <u>1,625</u>	<del>\$1,550</del> <u>1,625</u>	<del>\$4,125</del> <u>4,350</u>	<del>\$11,900</del> <u>12,500</u>	<del>\$31,100</del> <u>32,800</u>	<del>\$64,900</del> <u>68,600</u>	<del>\$103,700</del> <u>109,600</u>
Fire Service							
Connections:	<del>\$520</del> <u>550</u>	<del>\$520</del> <u>550</u>	n/a	<del>\$4,000</del> <u>4,225</u>	<del>\$10,300</del> <u>10,900</u>	<del>\$21,700</del> <u>22,900</u>	<del>\$34,600</del> <u>36,500</u>

**Cumming**

	1 inch	2 inch	3 inch*	4 inch	6 inch	8 inch	12 inch
Metered							
Connections:	\$1,025	\$1,900	\$1,900	\$9,000	\$27,700	\$60,500	n/a
Fire Service							
Connections:	\$1,200	\$1,500	n/a	\$3,900	\$10,100	\$21,100	n/a

**Alleman**

	1 inch	2 inch	3 inch*	4 inch	6 inch	8 inch	12 inch
Metered							
Connections:	<del>\$2,575</del> <u>2,725</u>	<del>\$4,200</del> <u>4,425</u>	<del>\$4,200</del> <u>4,425</u>	<del>\$11,900</del> <u>12,500</u>	<del>\$31,100</del> <u>32,800</u>	<del>\$64,900</del> <u>68,600</u>	n/a
Fire Service							
Connections:	<del>\$860</del> <u>900</u>	<del>\$1,400</del> <u>1,475</u>	n/a	<del>\$4,000</del> <u>4,225</u>	<del>\$10,300</del> <u>10,900</u>	<del>\$21,700</del> <u>22,900</u>	n/a

**All Other Service Areas (Outside City DM, Berwick, PCRWD #1, Runnels, Unincorporated Polk County, Unincorporated Warren County, etc.)**

	1 inch	2 inch	3 inch*	4 inch	6 inch	8 inch	12 inch
Metered							
Connections:	<del>\$1,925</del> <u>2,050</u>	<del>\$4,375</del> <u>4,625</u>	<del>\$4,375</del> <u>4,625</u>	<del>\$11,900</del> <u>12,500</u>	<del>\$31,100</del> <u>32,800</u>	<del>\$64,900</del> <u>68,600</u>	n/a
Fire Service							
Connections:	<del>\$650</del> <u>680</u>	<del>\$1,475</del> <u>1,575</u>	n/a	<del>\$4,000</del> <u>4,225</u>	<del>\$10,300</del> <u>10,900</u>	<del>\$21,700</del> <u>22,900</u>	n/a

511.6.1 DMWW does not make 3” taps but 3” domestic connections can be teed off of the fire service for the building or property.

- 511.6.2 System Development Fees for projects with both fire and domestic services, or any combination of multiple services, will be the total of all of the System Development Fees added together.
- 511.6.3 System Development Fees for projects with metered combination fire and domestic services (master metered) shall be considered domestic services with fees being charged accordingly.
- 511.6.4 System Development Fees for subdivisions will be based upon the number and size of service stubs to be installed within the subdivision. All service stubs within subdivision will be considered domestic stubs unless sufficient evidence is provided to indicate otherwise.
- 511.6.5 If DMWW has record that a tap previously existed at a property, System Development Fees will not be required for replacement taps of equal size. Existing taps that are less than one inch in diameter and are being replaced with new one-inch taps will not require System Development Fees. Any replacement tap that is to be a larger size than the original tap, other than upsizing to a one-inch diameter tap, will require a fee that will be the difference between the fee for the new tap size and the fee for the original tap size.

511.7 UNIFORM TAP CHARGES

Table 511.7 Uniform Tap Charges (effective January 1, ~~2022~~2023)

Tap Size	1" *	2" **	3"***	4"	6"	8"	12"
2" Main	\$ <del>380</del> <u>400</u>						
4" Main	\$ <del>380</del> <u>400</u>	\$ <del>1,425</del> <u>1,500</u>		\$ <del>2,225</del> <u>2,350</u>			
6" Main	\$ <del>380</del> <u>400</u>	\$ <del>1,425</del> <u>1,500</u>		\$ <del>2,500</del> <u>2,650</u>	\$ <del>2,875</del> <u>3,050</u>		
8" Main	\$ <del>380</del> <u>400</u>	\$ <del>1,425</del> <u>1,500</u>		\$ <del>2,550</del> <u>2,700</u>	\$ <del>2,875</del> <u>3,050</u>	\$ <del>3,725</del> <u>3,950</u>	
10" Main	\$ <del>380</del> <u>400</u>	\$ <del>1,525</del> <u>1,600</u>		\$ <del>2,675</del> <u>2,825</u>	\$ <del>3,000</del> <u>3,175</u>	\$ <del>3,725</del> <u>3,950</u>	
12" Main	\$ <del>380</del> <u>400</u>	\$ <del>1,575</del> <u>1,675</u>		\$ <del>2,675</del> <u>2,825</u>	\$ <del>3,000</del> <u>3,175</u>	\$ <del>3,825</del> <u>4,050</u>	\$ <del>6,000</del> <u>6,350</u>
14" Main	\$ <del>380</del> <u>400</u>	\$ <del>1,875</del> <u>1,975</u>		\$ <del>2,675</del> <u>2,825</u>	\$ <del>3,050</del> <u>3,225</u>	\$ <del>3,825</del> <u>4,050</u>	\$ <del>6,000</del> <u>6,350</u>
16" Main	\$ <del>380</del> <u>400</u>	\$ <del>2,050</del> <u>2,175</u>		\$ <del>3,050</del> <u>3,225</u>	\$ <del>3,050</del> <u>3,225</u>	\$ <del>3,750</del> <u>3,975</u>	\$ <del>6,300</del> <u>6,650</u>
20" CI/DI Main	N/A	\$ <del>2,100</del> <u>2,225</u>		\$ <del>3,100</del> <u>3,275</u>	\$ <del>3,475</del> <u>3,675</u>	\$ <del>4,325</del> <u>4,575</u>	\$ <del>6,750</del> <u>7,125</u>
20" Concrete Main	N/A	N/A		\$ <del>8,100</del> <u>8,550</u>	\$ <del>8,450</del> <u>8,925</u>	\$ <del>9,500</del> <u>10,000</u>	\$ <del>12,000</del> <u>12,700</u>
24" CI/DI Main	N/A	\$ <del>2,200</del> <u>2,325</u>		\$ <del>3,150</del> <u>3,325</u>	\$ <del>3,575</del> <u>3,775</u>	\$ <del>4,625</del> <u>4,900</u>	\$ <del>8,300</del> <u>8,750</u>
24" Concrete Main	N/A	N/A		\$ <del>8,225</del> <u>8,700</u>	\$ <del>8,750</del> <u>9,250</u>	\$ <del>9,550</del> <u>10,100</u>	\$ <del>12,200</del> <u>12,900</u>

511.7.1 All taps larger than 12" and all mains larger than 24" to be tapped for any size will be done on a labor-and-materials basis. Price estimates may be quoted on request.

511.7.2 \*The fee for 1" taps on ASTM D2241 pipe in the former SE Polk system which require a tapping saddle will be \$~~440~~ 470.

511.7.3 \*\*The fee for 2" taps made on 16" PVC, which will require a tapping saddle, will be \$~~2,550~~ 3,475.

511.7.4 \*\*\*DMWW does not make 3” taps but 3” domestic connections can be teed off of the fire service for the building or property. See 511.6 above for System Development Fees related to 3” domestic connections.

511.7.5 City of Des Moines projects funded with expenditures from the City of Des Moines general fund are not required by these rules to pay system development fees. Any projects funded by expenditures from a City of Des Moines enterprise fund must still pay system development fees.

#### 511.8 UNIFORM TAP RETIREMENT CHARGES

Table 511.8 Uniform Tap Retirement Charges (effective January 1, ~~2022~~ 2023)

Tap retirement charges are based on the size of the main that is tapped, rather than the size of the tap.

Main Size	Fee
2”	<del>\$1,125</del> <u>1,200</u>
3”	<del>\$1,275</del> <u>1,350</u>
4”	<del>\$1,425</del> <u>1,500</u>
6”	<del>\$1,525</del> <u>1,600</u>
8”	<del>\$1,625</del> <u>1,725</u>
10”	<del>\$1,975</del> <u>2,100</u>
12”	<del>\$2,550</del> <u>2,700</u>
14”	<del>\$2,875</del> <u>3,050</u>

Charges for retirements on concrete mains or mains larger than 14" will be the current prices for materials and labor.

511.8.1 Tap retirement charges for other than corporations are based on the size of the main that is tapped, rather than the size of the tap. Charges for retirements on concrete mains and mains larger than 14" will be the current prices of materials and labor.

#### 511.9 METERS (revised January 1, 2020)

511.9.1 Damaged or lost meters will be replaced by Des Moines Water Works and charged to the owner at current market value, plus necessary labor for repair or replacement.

511.9.2 Charges for damaged meters larger than those priced on the Schedule of Charges will be the actual costs of materials and labor for repair or replacement.

511.9.3 Des Moines Water Works will test any meter upon application by the customer. If the meter testing results fall within American Water Works Association (AWWA) standards, the customer will be billed a fee equal to one (1) hour of labor at the labor rate stated in 511.20.

Table 511.9.1 Coupling Fees (effective January 1, ~~2022~~ 2023)

<u>Size</u>	<u>Fee</u>
5/8"	\$15.00 each
5/8" x 3/4"	\$19.00 each
3/4"	\$18.00 each
1"	\$26.00 each
1 1/2"	<del>\$110</del> <del>103.00</del> each
2"	<del>\$160</del> <del>150.00</del> each

Table 511.9.2 Meter Measuring Chamber Fees (effective January 1, ~~2021~~ 2023)

<u>Size</u>	<u>Fee</u>
5/8"	<del>\$39</del> <del>36.00</del>
3/4"	<del>\$45</del> <del>42.00</del>
1"	<del>\$88</del> <del>83.00</del>
1 1/2"	<del>\$200</del> <del>187.00</del>
2"	<del>\$267</del> <del>250.00</del>

Table 511.9.3 Meter Fees (effective January 1, ~~2022~~ 2023)

<u>Size</u>	<u>Fee</u>
5/8"	<del>\$133</del> <del>125.00</del>
3/4"	<del>\$171</del> <del>160.00</del>
1"	<del>\$235</del> <del>220.00</del>
1 1/2"	<del>\$470</del> <del>437.00</del>
2"	<del>\$634</del> <del>593.00</del>

511.10 DAMAGED OR LOST METER READING SYSTEM EQUIPMENT

Table 511.10 Damaged or Lost Meter Reading System Equipment  
(effective January 2023)

3-pair cable	\$2.00/foot
Underground cable	\$1.00/foot
Meter head 5/8", 3/4"	\$ <del>106</del> 99.00
Meter head 1", 1 1/2", 2"	\$ <del>106</del> 99.00
Single port MTU	\$ <del>178</del> 155.00
Dual port MTU	\$215.00
Upcharge for dual port MTU for secondary meter	\$42.00
Pressure regulator valve	\$135.00

511.11 EQUIPMENT (effective January 1, ~~2020~~ 2023)

Table 511.11 Equipment Fees

Standard Vehicle	\$20.00/hour
Valve Operation Truck	\$30.00/hour
Distribution Repair/Maintenance Equipment	
• Crew Van	\$40.00/hour
• Tapping Truck	\$40.00/hour
• Dump Truck	\$65.00/hour
Heavy Construction Equipment	
• Rubber Tire Backhoe	\$ <del>45.00</del> 65.00/hour
• Loader	\$60.00/hour
• Track Backhoe	\$ <del>90.00</del> 100/hour

511.12 CHARGES FOR UNAUTHORIZED USE OF WATER/METERING  
TAMPERING (effective January 1, 2020)

First unauthorized use	\$250.00, plus estimated water usage at the applicable rate structure
Second and Subsequent unauthorized use	\$500.00, plus estimated water usage at the applicable rate structure
Third unauthorized use	Will terminate water service up to and including cutting water service at main at owner's expense.



511.13 CHARGES FOR UNAUTHORIZED TAP

511.13.1 If an unauthorized tap is made, DMWW will excavate and inspect the tap. The property owner will be charged for time and materials spent completing this task including backfill and restoration. Labor and equipment will be charged at the current rates documented in these Rules and Regulations. If the tap passes our inspection, the property owner will be charged any applicable system development fees and taps fees. The property owner will also be subject to charges for the unauthorized use of water/metering tampering (See 502.4 Unauthorized Use of Unmetered Water).

511.13.2 If the unauthorized tap does not meet current Des Moines Water Works Rules and Regulations and/or material standards, DMWW will cut the water service at main at the property owner's expense. The property owner will be charged for time and materials spent completing this task including backfill and restoration. Labor and equipment will be charged at the current rates documented in these Rules and Regulations. The property owner will also be subject to charges for the unauthorized use of water/metering tampering (See 502.4 Unauthorized Use of Unmetered Water).

511.14 CHARGES FOR UNAUTHORIZED USE OF FIRE HYDRANT

First unauthorized use	\$570 plus service inspection cost and cost of repairs, if applicable
Second unauthorized use	\$1,125 plus service inspection cost and cost of repairs, if applicable
Third unauthorized use	\$1,700 plus service inspection cost and cost of repairs, if applicable

511.15 DEPOSIT FOR HYDRANT METER (effective January 1, ~~2020~~2023)

3/4"	<del>\$750</del> 670.00
1"	<del>\$950</del> 860.00
2"	<del>\$1800</del> 1,700.00
3"	<del>\$2250</del> 1,900.00

511.16 CHARGES FOR THE USE OF HYDRANT METERS  
(effective January 1, 2019)

Monthly Availability Charge:

¾" Garden Meter	\$30.00
1" Hydrant Meter	\$55.00
2" Hydrant Meter	\$115.00
3" Hydrant Meter	\$225.00

Late Fee: \$20.00 per day if Hydrant Meter is not returned by agreed upon date.

Failure to Report a Monthly Hydrant Meter Read: \$20.00 per day until read is submitted according to instructions provided at the time of rental.

511.17 TERMINATION FEE FOR COLLECTIONS (effective January 1, 2020)

511.17.1 A termination fee of \$65.00 will be applied to all accounts when a water service is terminated or attempted to be terminated due to non-payment of charges. This fee includes the restoration of water service once the termination amount is paid.

511.17.2 An additional after-hours service restoration fee will be applied when restoration of water service is requested according to the hours shown below.

Table 511.17 After Hours Service Restoration Fees

Service Area	Definition	After Hour Fee
Des Moines, Windsor Heights, Pleasant Hill, Unincorporated Polk County	During normal field hours: Monday – Friday 7:30 am – 6:00 pm Saturday 7:30 am – 3:30 pm  After hours: Monday – Friday 6:00 pm – 9:30 pm	None (included in the termination fee)  \$35 after hour fee
Area formerly known as SE Polk Rural Water District, Runnells, Cumming, Alleman	During normal field hours: Monday – Friday 7:30 am– 3:30 pm  After hours: Monday – Friday 3:30 – 9:30 pm Saturday 7:30 am – 3:30 pm	None (included in the termination fee)  \$75 after hour fee
All Areas - Other hours	Turn-on will be deferred to the next business day (unless deemed an emergency)	Not applicable

511.18 MISSED APPOINTMENT FEES

511.18.1 When a service appointment has been made with Des Moines Water Works by a customer, and the customer or owner fails to meet this appointment without reasonable advance notice, Des Moines Water Works will assess a \$40 missed appointment fee, plus any after-hour fee, if applicable. This charge applies to any scheduled appointment, including water service restoration appointments. No more than one missed appointment fee will be charged per day.

511.18.2 When an appointment has been made for tap cut inspections, taps, tap removals or other work by a contractor requiring inspection assistance or approval by Des Moines Water Works, and the contractor fails to meet this appointment without reasonable advance notice, Des Moines Water Works will assess a trip charge fee to the contractor. The assessed trip charge fee will be calculated based on travel time to and from the job site and include time incurred loading and unloading materials and equipment required for the job, if applicable. Labor and equipment will be charged at the current rates documented in these Rules and Regulations.

511.19 STOP BOX VERIFICATION

511.19.1 If a property owner or their designated agent desire for Des Moines Water Works to verify the property’s stop box is in good working condition prior to a potential property transfer, Des Moines Water Works will assess a fee of \$40 to the current property owner at the time of the request. As provided in Rule 502.5.3 herein, Des Moines Water Works will not be responsible for stop boxes found in the process of verification to be in inoperable condition or for stop boxes that may become inoperable when DMWW staff operates them during verification.

511.20 LABOR (effective January 1, ~~2022~~ 2023)

Standard Hourly Labor Rate	\$ <del>70.00</del> <u>75.00</u> /hour
Overtime Hourly Labor Rate	\$ <del>105.00</del> <u>110.00</u> /hour

511.20.1 Other labor charges for work completed by Des Moines Water Works may be calculated based upon specific wage rates with the appropriate multiplier in lieu of the standard hourly rate.

511.21 COMPUTERIZED LEAK PINPOINTING \$200.00 hour

511.22 RETURNED CHECK \$30.00

511.23 DEPOSIT FOR TENANTS (effective January 1, 2021) \$100.00

511.24 FIRE HYDRANT FLOW TEST (effective January 1, 2020) \$180.00

511.25 CREDIT CARD CONVENIENCE (via website or telephone only, charged by third-party processor) ~~\$2.75~~ 2.95

511.26 PUBLIC RECORDS REQUEST FEES

511.26.1 Fees for public records requests as outlined in Section 516 shall be actual costs incurred for search, retrieval, compilation and examination, excluding overhead. Costs for copying shall be \$1.00 for first page and \$0.25 per page thereafter, or actual costs incurred if an outside printing vendor is utilized.

511.27 LAB FEES (effective January 1, 2022)

Table 511.27.1 Microbiological Fees

<b>Sample</b>	<b>Analysis</b>	<b>Cost</b>
Private wells	Coliform	\$35.00
Distributions	Coliform	\$15.00
HPC	HPC	\$15.00
New Mains	Coliform	\$15.00
Pool	Coliform	\$15.00
Spa	Coliform/Pseudomona	\$25.00
Quantitray	Coliform	\$25.00
Raw Water	Algal ID	\$30.00

Table 511.27.2 Chemical Fees

<b>Sample</b>	<b>Analysis</b>	<b>Cost</b>
Anions	Bromide	\$18.00
	Chloride	\$18.00
	Fluoride	\$18.00
	Nitrate	\$18.00
	Nitrite	\$18.00
	Phosphate (ortho)	\$18.00
	Sulfate	\$18.00
Solids	All	\$60.00
	TSS	\$18.00
Metals	TDS Grav	\$18.00
	Aluminum	\$18.00
	Arsenic	\$18.00
	Cadmium	\$18.00
	Calcium	\$18.00
	Chromium	\$18.00
	Copper	\$18.00
	Iron	\$18.00
	Lead	\$18.00
	Magnesium	\$18.00
	Nickel	\$18.00
	Potassium	\$18.00
	Selenium	\$18.00
	Silver	\$18.00
	Sodium	\$18.00
Zinc	\$18.00	
Softening	Calcium Hardness	\$18.00
	Magnesium Hardness	\$18.00
	Chlorine Residual	\$12.00
	Conductivity	\$12.00
	Alkalinity	\$15.00
	pH	\$12.00
	Total Hardness	\$25.00
	Turbidity	\$12.00
DBP's	TTHM	\$75.00
	HAA	\$100.00
Algal Toxins ELISA	Microcystin	\$75.00
	Cylindrospermopsin	\$75.00
	Saxitoxin	\$75.00
	Anatoxin	\$75.00

511.28 INSPECTION FEES FOR NEW WATER MAIN EXTENSIONS

Fees shall be charged for construction inspection and related as built drawings for installation of all new water main extensions.

Base Inspection Fee	\$200.00
Inspection Fee Unit Cost – first 1,000 ft.	\$1.50/ft.
Inspection Fee Unit Cost – all additional footage	\$1.00/ft.

Inspection fees of water main extensions shall be paid prior to issuance or approval of IDNR Construction Permit.

Illustrative Example: Installation of 1500 feet of eight-inch water main for Hawkeye Development on Cyclone Avenue.

Base Inspection	\$200.00
First 1,000 feet (1000 x 1.50)	\$1,500.00
Additional 500 feet (500 x 1.00)	<u>\$500.00</u>
Total	\$2,200.00

511.29 PLAN REVIEW FEE FOR NEW WATER MAIN EXTENSIONS

Fees shall be charged for plan review of all new main extensions.

Base Plan Review Fee	\$200.00
Unit Cost Plan Review Fee	\$.10/ft.
Construction Permit Fee (DMWW issued IDNR Permits)	\$.10/ft.

Plan review fees for water main extensions are to be paid at the time materials are submitted for review.

Illustrative Example: Installation of 1500 feet of eight-inch water main for Hawkeye Development on Cyclone Avenue.

Base Plan Review	\$200.00
Unit Cost Review (1,500 x \$.10)	\$150.00
DMWW issued IDNR Permit (1,500 x \$.10)	<u>\$150.00</u>
Total	\$500.00

511.30 TWO-INCH AND LARGER WATER SERVICE PLAN REVIEW FEE

Des Moines Water Works Engineering Department shall review all two-inch and larger water service connections. Payment for plan review will be required at the time the formal request is issued to Des Moines Water Works.

Plan Review Fee – One Tap	\$150.00
Plan Review Fee – Two or More Taps	\$250.00

Plan review fees for large water services are to be paid at the time materials are submitted for review.

511.31 ADMINISTRATION FEE FOR CONTRACTED STOP BOX REPAIR  
\$90.00

511.31.1 Fee charged to customers when stop box repairs are completed by DMWW's contracted plumber.

511.32 SUBMETERING FEES

Fees for submetering contracts as outlined in Section 509.3.4 are charged to the property owner and are as follows:

- \$500 one-time administrative fee
- \$50 per submetered account for billing system set up
- Meter, MTU, and labor charges as outlined in these Rules & Regulations

In addition, a monthly meter reading fee of \$2.75 will be charged to the customer of each submeter on their monthly bill.

511.33 S.E. POLK ANNEXATION ASSET/SERVICE TERRITORY TRANSFER (moved from previous Section 514) (Revised January 1, 2021)

Des Moines Water Works purchased SE Polk Rural Water District in April 2004. The purchase of this district was completed to provide a more economical way to stimulate the growth of cities into the SE Polk District. As annexation occurs in these areas, it is intended that these customers become customers of the city that annexes such area of the district.

The city annexing the area into its service territory shall pay Des Moines Water Works for the service territory acquired based on the number of existing customers connected to the water system.



For annexing cities that receive their water supply from DMWW, the buy-out shall be \$3,700 per existing residential customer.

For annexing cities who do not receive their water supply from DMWW, the buy-out shall be \$5,700 per existing residential customer.

The buy-out of existing commercial and industrial customers will be determined on a case-by-case basis (effective January 1, 2019).

#### 511.34 BACKFLOW FEES

511.34.1 An administration fee of \$15.00 per backflow prevention assembly shall be applied to the customers' account annually.

511.34.2 A \$100.00 late fee will be applied to the customer's account if the report of annual test of a containment backflow prevention assembly as required by Rule 506.4.7 is not received by the Backflow Program Manager within fifteen (15) days of the Annual Backflow Test Date.

An additional \$200.00 late fee will be applied to the customer's account if such report is not received within thirty (30) days of the Annual Backflow Test Date.

511.35 PRIVATE FIRE HYDRANT MAINTENANCE FEE (Effective January 1, 2021) \$120.00/hydrant

511.36 ADMINISTRATION FEE FOR BILLED SERVICES (Effective January 1, 2021) \$25.00

511.36.1 Fee charged to customers when DMWW completes a billed service.

511.37 A customer may appeal the adoption of a new or increased rate or charge applicable to such customer by filing notice of appeal to the Board of Trustees. Such notice of appeal shall be submitted in writing to the CEO and General Manager of DMWW within 30 days of the date of publication of such new or increased rate. No appeal shall stay application of the rate or charge to customer, or stay collection of any water service charges or other charges, pending appeal.

Such issue will then be considered by the Board of Trustees as provided in Section 206.8 of Board Policy Manual at the next scheduled meeting of the Board of Trustees.

If the appeal is successful the customer will be entitled to such prospective or retrospective adjustment as the Board of Trustees shall allow in its sole discretion. Appeals concerning the application of a rate or charge to a specific case or specific customer shall be submitted and governed by section 500.2 of these Rules & Regulations. The CEO and General Manager shall have the authority to determine if any appeal is concerning the adoption of rates and charges or the application of rates and charges, and shall apply the process under these rules that is thus applicable under this provision.

511.38 CHARGES FOR UNAUTHORIZED OPERATION OF A VALVE (effective January 1, 2022)

First unauthorized use	\$570 plus service inspection cost and cost of repairs, if applicable
Second unauthorized use	\$1,125 plus service inspection cost and cost of repairs, if applicable
Third unauthorized use	\$1,700 plus service inspection cost and cost of repairs, if applicable

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## GLOSSARY OF TERMS (Revised January 2021)

Apartment. A multi-family living unit with one owner of all of the units and the property that the units set upon.

Applicant. Any person association, corporation, entity or governmental agency requesting water service.

(The) Board. The Board of Water Works Trustees, of the City of Des Moines, is the governing body as constituted under the laws of the State of Iowa.

(The) City. The City of Des Moines, Iowa, a municipal corporation acting through the City Council or its duly authorized representatives.

Combination General Service Line. Domestic service line and fire protection line served from a single tap.

Condominium. A multi-family living unit with individual owners for each unit. The property that each unit sets upon is normally owned by one common owner (a homeowner's association).

Connection Fee. A calculated charge assessed to a property owner who will utilize increased flow capacity of the distribution system for which the Des Moines Water Works has made a capital cost investment.

Cross Connection. Any connection or structural arrangement between a public or a consumer's potable water system and any non-potable source or system through which backflow can occur.

Des Moines Water Works or DMWW. The Des Moines Water Works or DMWW is the utility, which is governed by, and officially titled as the Board of Water Works Trustees of the City of Des Moines, Iowa.

Distribution Main. The water pipe, located in a street or approved easement area, from which domestic water supply is delivered to the service pipe leading to specific premises; usually not larger than 12" in diameter.

CEO and General Manager. The duly appointed chief executive officer of the Des Moines Water Works.

Duplex/Flat. A two family living unit with one owner of the two living units. The owner of the units also owns the property that the two units set upon (side-by-side or stacked).

Implied Public Access. Areas on private property that are accessible to the general public, and will remain accessible in the future. Examples of such areas are driveways and parking lots for shopping malls and apartment complexes.

Manufactured Home Complexes. Two or more manufactured homes adjacent to each other, located on a property owned by one common owner. (Ewing trace)

Master Plumber. A plumber who has satisfactorily completed the Master Plumber Certificate of competency examination administered by the City of Des Moines.

Master Service. A water supply line to a group of buildings or planned units, usually metered in one location to indicate total consumption for the development.

Owner. The agency or individual in possession of a property being serviced by the Des Moines Water Works.

Plumbing Contractor. An individual who holds a certificate of competency as a Master Plumber and posts the appropriate surety and cash bonds to the City of Des Moines Building Inspection Department and supplies a plumber's license bond to the Des Moines Water Works.

Private Fire Protection System. Consists of a fire service connection to the Des Moines Water Works main and any or all of the following: standpipe(s), automatic sprinkler system(s), fire pump(s), or fire hydrant(s).

Private Water Main. Water pipe, which supplies water to a specific premise or premises, owned and maintained by people or organizations other than the Des Moines Water Works.

Process Service. A water supply line used for providing a consistent, high-volume demand for water over a period of time for industrial or cooling purposes.

Service Line. All piping and appurtenances installed from the water main to the outlet connection of the first shut-off device within a building.

Service Main. A privately owned and maintained water service to a single property, which provides fire and domestic service connections with the individual valves located in implied public access way.

Street, Road, or Alley. The whole area within the right-of-way limits.

Tap. The physical connection to a water main through which the water supply is carried.

Townhome. A multi-family living unit with individual owners for each unit. The owner of the living unit normally owns the property that each unit sets upon.

Transmission Main. Large diameter water pipe, usually 16” or larger in diameter, which delivers water from treatment plants or pumping stations to the Distribution Mains. Transmission Mains cannot be tapped directly for water service without special permission from Des Moines Water Works.

Water Service. The provision of municipal water supply to a property, or all piping and appurtenances installed from the water main to the outlet connection of the first shut-off device within a building, as context requires

(The) Des Moines Water Works. The Des Moines Water Works is the utility, which is governed by, and officially titled as the Board of Water Works Trustees of the City of Des Moines, Iowa.

514 SUPPLEMENTAL REQUIREMENTS FOR THE FORMER SOUTHEAST  
POLK RURAL DISTRICT (eliminated and incorporated into existing sections,  
January 2019)



515 WATER SHORTAGE PLAN

515.1 INTRODUCTION (revised January 1, 2023)

This plan will apply to all direct retail customers of Des Moines Water Works. Municipal water systems and rural water systems that purchase water for resale are not subject to this plan, however, it is anticipated that all such municipal and rural systems will implement parallel water shortage plans which will result in reductions in demand similar to those described in this plan.

The intent of Des Moines Water Works' Water Shortage Plan is to manage system demand so customers do not experience pressure, quality, or availability issues during periods of extreme water demand or during other times when water availability may be limited due to other events, such as raw water shortage, water quality events, or mechanical failures.

The goal at each stage in the plan is to reduce system demands to 85% or less of the "Current Capacity" to produce safe drinking water, as defined in this plan.

Nominal capacity of the Des Moines Water Works system is 100 MGD. Winter demand in a typical year averages approximately 40 MGD as shown in Figure A. Seasonal outdoor water use including moderate irrigation lawn watering, increases demand to an average of approximately 60 MGD during the summer months as shown in Figure A. The majority of demand above 60 MGD is attributed to be irrigation lawn watering. Heavy irrigation-lawn watering causes spikes in demand which can reach more than 95 MGD.

Based on historic consumption patterns, irrigation, primarily turf irrigation, lawn watering accounts for as much as 40 MGD of demand during heavy irrigation-lawn watering periods. Thus, a 25% reduction in irrigation-lawn watering should result in a 10 MGD reduction in total demand to approximately 85 MGD, a reduction of more than 10% compared to peak demand otherwise expected. This is the premise of Stage I. Stage I may be skipped if a water shortage occurs during a time of year when irrigation-lawn watering demand is not significant.

Based on historic consumption patterns, total outdoor water use accounts for as much as 50 MGD of demand during heavy ~~irrigation~~-lawn watering events. Thus, a 50% reduction in outdoor water use should result in a 25 MGD reduction in total demand to 70 MGD, a reduction of more than 25% compared to peak demand otherwise expected. This is the premise of Stage II. Stage II may be skipped if a water shortage occurs during a time of year when ~~outdoor water use~~ lawn watering demand is not significant.

Based on the foregoing analysis, that ~~irrigation~~-lawn watering accounts for as much as 40 MGD of the demand during heavy ~~irrigation~~-lawn watering periods, and understanding that the vast majority of this is ~~turf irrigation~~ lawn watering, prohibiting ~~turf irrigation~~ lawn watering should result in a 40 MGD reduction in total demand to approximately 55 MGD, a reduction of more than 40% compared to peak demand otherwise expected. This is the premise of Stage III. Stage III may be skipped if a water shortage occurs during a time of year when ~~irrigation~~-lawn watering demand is not significant.

Limiting consumption to a representative average of off peak months, plus or minus a small allowance, will result in a demand of approximately 40 MGD, a reduction of nearly 60% compared to peak consumption. This is the premise of Stage IV.

The stages of this plan are not necessarily consecutive. When a water shortage occurs the stage deemed most appropriate for the conditions will be implemented.

## 515.2 CURRENT CAPACITY TO PRODUCE SAFE DRINKING WATER AND EXPECTED PEAK DEMAND

### 515.2.1 CURRENT CAPACITY

The current capacity to produce safe drinking water on any day is referred to “Current Capacity” or  $C_{Total}$ . Current Capacity is defined as the amount of water Des Moines Water Works can produce and deliver on any day taking into consideration raw water availability and quality, seasonal treatment efficacy, and any mechanical or operational issues on that given day. The number will vary seasonally and may vary day to day depending on specific water quality and operational conditions. Current Capacity is computed as the sum of the daily capacities of the individual Des Moines Water Works treatment plants and may be expressed in the following formula:

$$C_{\text{Total}} = C_{\text{Fleur}} + C_{\text{McMullen}} + C_{\text{Saylorville}}$$

Current Capacity will be evaluated on a daily basis when there is potential for a water shortage. Des Moines Water Works Water Production staff will perform the daily evaluation and report the Current Capacity in Million Gallons per Day.

#### 515.2.2 EXPECTED PEAK DEMAND

“Expected Peak Demand” is defined as the peak daily demand that is expected by the Des Moines Water Works without implementation of water shortage measures under this plan.

### 515.3 STAGE I: VOLUNTARY 25% REDUCTION IN ~~TURF IRRIGATION~~ LAWN WATERING (revised January 1, 2023)

#### 515.3.1 TRIGGER

During a period of substantial ~~irrigation-~~ lawn watering demand, when Expected Peak Demand reaches 90% of Current Capacity or system demand is generating a high number of areas with low pressure, or there are other indications that without wise usage of water, a shortage could occur.

#### 515.3.2 ANTICIPATED IMPACT

It is anticipated that Stage I will most likely be triggered during peak ~~irrigation-~~ lawn watering season. In a typical year ~~irrigation-~~ lawn watering can account for as much as 40 MGD of demand on a peak day. If this is the case, a 25% reduction in ~~irrigation-~~ lawn watering will result in a 10 MGD reduction in total demand. At peak demand 10 MGD would be more than a 10% reduction.

#### 515.3.3 GOAL

A 10% reduction in system demands as compared to Expected Peak Demand.

- 515.3.4 ACTION (~~Revised January 1, 2021~~)
- 515.3.4.1 Request a **metro wide** 25% reduction in lawn ~~irrigation watering~~.
  - 515.3.4.2 Encourage residential and business customers to optimize their ~~irrigation- lawn watering~~ systems so water is not directed onto impervious surfaces and turf is not overwatered.
  - 515.3.4.3 ~~Continued reinforcement that Recommend~~ residential and business customers ~~irrigate water~~ on alternate days and excluding Mondays (historically a peak demand day), by a system under which even numbered addresses water only on ~~even days of the month~~ Wednesday, Friday and Sunday, and odd-numbered addresses water only ~~on odd-numbered days of the month~~ Tuesday, Thursday, and Saturday.
  - 515.3.4.4 Suspend Des Moines Water Works' hydrant flushing program except for water quality purposes.
  - 515.3.4.5 Request that City officials minimize high water use activities such as street sweeping and watering golf course fairways.
  - 515.3.4.6 Coordinate with wholesale customers to ensure they are relaying the same message.
- 515.3.5 ENFORCEMENT
- There will be no enforcement at this stage.

515.4 STAGE II: VOLUNTARY 50% REDUCTION IN ~~OUTDOOR WATER USE (INCLUDING TURF IRRIGATION)~~ LAWN WATERING (revised January 1, 2023)

515.4.1 TRIGGER

During a period of substantial ~~irrigation~~ lawn watering demand, after Stage I has been implemented and failed to achieve an adequate reduction in consumption, when Expected Peak Demand exceeds 90% of Current Capacity, or system demand continues to generate areas of low pressure, or there are other indications that without further reductions in demand, a shortage could occur.

515.4.2 ANTICIPATED IMPACT

It is anticipated that Stage II will most likely be triggered during the peak outdoor water use season. In a typical year ~~outdoor water~~ lawn watering use can account for as much as 50 MGD of demand on a peak day. If this is the case, a 50% reduction in outdoor water use will result in a 25 MGD reduction in total demand. At peak demand 25 MGD would be more than a 25% reduction.

515.4.3 GOAL

A 25% reduction in system demands as compared to Expected Peak Demand.

515.4.4 ACTION (~~Revised January 1, 2021~~)

515.4.4.1 Request customers further reduce water consumption by taking the following measures in addition to those implemented in Stage I:

515.4.4.1.1 Request a **metro wide** 50% reduction in outdoor water use.

515.4.4.1.2 Remind residential and business customers to optimize their ~~irrigation~~ lawn watering systems so water is not directed onto impervious surfaces and turf is not overwatered.

515.4.4.1.3 Reinforce the recommendation for customers to ~~irrigate-~~ lawn water on alternate days and excluding Mondays.

515.4.4.1.4 Encourage wise use of water during outdoor activities including washing cars, playing in the sprinkler, playing with water toys, and filling swimming pools.

515.4.4.1.5 Encourage wise use of water indoors including identifying and repairing leaking fixtures, washing only full loads in dishwashers and washing machines, shorter showers, etc.

515.4.4.2 Coordinate with wholesale customers to ensure they are relaying the same message.

515.4.4.3 Request that public agencies (City, County, or State) set an example by:

515.4.4.3.1 Closing recreational facilities with known water inefficiencies.

515.4.4.3.2 Suspend the operation of decorative fountains.

515.4.5 ENFORCEMENT

There will be no enforcement at this stage.

515.5 STAGE III: ~~TURF IRRIGATION~~ LAWN WATERING PROHIBITED AND NO USE OF AUTOMATIC ~~IRRIGATION-~~ LAWN WATERING SYSTEMS (revised January 2023)

515.5.1 TRIGGER

During a period of substantial ~~irrigation-~~ lawn watering demand, after Stage I and Stage II have been implemented and failed to achieve an adequate reduction in consumption, when Expected Peak Demand exceeds 90% of Current Capacity, or system demand continues to generate areas of low pressure, or there are other indications that without further reductions in demand, a shortage could occur.

515.5.2 ANTICIPATED IMPACT

It is anticipated that Stage III will most likely be triggered during peak ~~irrigation-~~ lawn watering season. In a typical year ~~irrigation lawn watering, primarily turf irrigation,~~ can account for as much as 40 MGD of demand on a peak day. If this is the case, prohibiting ~~irrigation-~~ lawn watering will result in a 40 MGD reduction in total demand. At peak demand 40 MGD would be almost a 40% reduction.

515.5.3 GOAL

A 40% reduction in system demands as compared to Expected Peak Demand.

515.5.4 ACTION

Require residential and business customers to further reduce water consumption by suspending **all** ~~turf irrigation lawn watering~~ and the use of **all** automatic ~~irrigation-~~ lawn watering systems. This reduction is in addition to all steps implemented in Stage I and Stage II.

#### 515.5.5 ENFORCEMENT

Customers observed by DMWW irrigating in violation of this policy will be notified by a tag left at the property. If ~~irrigation- lawn watering~~ is not suspended within 48 hours, water service will be terminated and the published termination fee will apply. Water service will be restored only upon receipt, by the Des Moines Water Works, of an undertaking by the customer that the customer understands and will comply with the mandatory conservation measures. Any subsequent violation will result in further termination of service. In addition the use of water for ~~irrigation- lawn watering~~ in violation of this plan shall be deemed an unauthorized use of water and Section 511.12 “Charges for the Unauthorized Use of Water/Metering Tampering”, of these Rules and Regulations shall apply and must be paid before water service will be restored.

#### 515.6 STAGE IV: WATER RATIONING

##### 515.6.1 TRIGGER

During periods of substantial ~~irrigation- lawn watering~~ demand ~~or other potential shortage~~, after Stage I, Stage II, and Stage III have been implemented and failed to achieve an adequate reduction in consumption, when Expected Peak Demand exceeds 90% of Current Capacity, or system demand is generating a high number of areas with low pressure, ~~limited source water supply~~, or there are other indications that without wise usage of water, a shortage could occur.

Stage IV may also be invoked, without resort to Stages I through III, if Expected Peak Demand exceeds 90% of Current Capacity for any reason that cannot be addressed by the measures contemplated by Stages I through III.



515.6.2 ANTICIPATED IMPACT

It is anticipated that Stage IV will only be triggered in the event of a significant and severe water shortage, or other event, which severely reduces capacity relative to demand. In this case a reduction in demand to the lowest level which will meet public health and safety standards will be sought.

515.6.3 GOAL

A reduction in system demands as compared to Expected Peak Demand sufficient to allow the Des Moines Water Works to meet public health and safety standards

515.6.4 ACTION

Water rationing measures will be implemented and enforced by application of an Emergency Water Shortage Rate. In order to implement such rate the Des Moines Water Works shall set a target level for demand consistent with its Current Capacity and shall use such target to establish a “Rationing Factor” as defined in this Plan. All customers will be asked to reduce their consumption to a level at or below a “Stage IV Monthly Water Ration”, and consumption above such level will be charged at the Emergency Water Shortage Rate intended to strongly discourage consumption above such level.

515.6.5 ENFORCEMENT (Revised January 2022)

“Stage IV Monthly Water Ration” means for each customer the Typical Off-Peak Consumption of such customer multiplied by an announced Rationing Factor. “Typical Off-Peak Consumption” shall be computed as of the date that Stage IV is invoked as the mean monthly consumption of the customer for the immediately preceding months of March, April, and May. The Rationing Factor shall be a percentage, which may be above or below 100%, as announced by the Des Moines Water Works and designed to effectively reduce consumption to the level as required by the prevailing circumstances.

While Stage IV is in effect each customer will be billed for all water at published rates. Additionally, all water used beyond the Stage IV Monthly Water Ration for each customer will be billed at the “Emergency Water Shortage Rate”. The Emergency Water Shortage Rate shall be four times the rate otherwise applicable to such customer. In the event stepped rates apply, the Emergency Water Shortage Rate shall be four times the Step 1 rate. Customers may appeal the Typical Off-Peak Consumption level determined for the customer as the basis for the customer’s bill as inaccurate or inequitable under the circumstances applicable to the customer. Appeals must be submitted in writing and will be considered on a case-by-case basis as provided under these Rules and Regulations.

516 PUBLIC RECORDS

**Commented [SL1]:** Clarifications to current practices and updates to Iowa Code Chapter 22, per Iowa Senate File 2322, signed into law and in effect on July 1, 2022.

516.1 POLICY

It is the policy of the Board of Trustees that the Des Moines Water Works shall comply fully with the open records requirements of applicable law. Public records of or belonging to the Water Works are available for public examination and reproduction as of right, except those records that are exempt from disclosure by law.

516.2 DEFINITION OF PUBLIC RECORDS

The term “public record” is defined in Section 22.1(3) Code of Iowa.

516.3 EXEMPT RECORDS

Exempt Records are those records required or permitted by law to be kept confidential, including records defined as confidential or exempt in Section 22.7, Code of Iowa, Section 388.9, Code of Iowa, Section 388.9A, Code of Iowa, and Section 622.10, Code of Iowa. Records which include information, such as health information, required by federal law to be kept confidential shall be deemed Exempt Records. Security matters as set out in Rule 618.2 are Exempt Records. Attorney client communications and attorney work product are confidential Exempt Records.

516.4 EXEMPTION AND WAIVER OF EXEMPTION (revised January 2023)

Exempt Records are not ~~generally~~ available for examination or copying by the public. Water Works may, in its discretion, make Exempt Records available when such disclosure is not prohibited by law and disclosure is deemed in the best interests of Water Works.

516.5 COPYRIGHT

Except as permitted by law, materials subject to third party copyright, and which Water Works does not have the rights to copy, may be examined, but shall not be copied unless the requesting party secures and provides permission to copy to Water Works, provided by the holder of the copyright.

516.6 REQUESTS FOR EXAMINATION OF RECORDS (revised January 2023)

Any person may make a request to examine or copy a public record. A request may be made in writing, orally in person, by telephone, or by electronic means. Requests for public records should be directed to the Chair, the CEO and General Manager, or the Director of Customer Service. Any request received by any other staff member shall be referred to the Director of Customer Service, and the request shall be deemed made upon receipt of the Director of Customer Service. To assure a consistent application of fees, and to document responses provided, the Director of Customer Service is the person designated by the Water Works to respond to all requests. If public records that are requested are available online, the requesting party may be advised of such availability and requested to obtain access by such means. Authority to make decisions as to the proper response to a request is delegated to the Director of Customer Service. If the Director of Customer Service is uncertain if a records request seeks records that are exempt from disclosure, a written opinion of counsel to the Water Works may be obtained, and records may be withheld from examination and copying in accordance with such opinion. The Director of Customer Service, or counsel to the Water Works are also authorized to request informal advice or a formal opinion from the Iowa Public ~~Records~~ Information Board with respect to any issue arising from a public records request.

516.7 COSTS (revised January 2023)

The Water Works may charge a reasonable fee for the services of a Water Works employee(s) to supervise the examination and copying of the records, or to identify, review, and produce requested records. —All expenses of the examination and copying shall be paid by the person desiring to examine or copy a public record.

If the requested records take less than 30 minutes to identify, review, and produce, then there will be no charge for producing records. If, after reviewing the request, the Director of Customer Service determines that it will take more than 30 minutes to identify, review, and produce records, then the Director of Customer Service will communicate to the requester an estimate of the number of Water Works staff hours it will take to identify, review, and produce the requested records. The Director of Customer Service will communicate to the requester the hourly rate of each staff member and time required of each staff member to respond to the request. The hourly cost for Water Works staff time to fulfill a records request is limited to the staff's hourly rate, and does not include employment benefits, depreciation, maintenance, electric, or insurance costs associated with the administration of the Water Works' office. In addition to the cost of staff time to identify, review, and produce records, the Director of Customer Service will disclose any other actual costs Water Works will incur to identify, review, and produce the requested records.

~~The Water Works may charge a reasonable fee for the services of a Water Works employee to supervise the examination and copying of the records. The Water Works will communicate an estimate of the costs to the requester following the receipt of the request. Except when the request identifies a specific record to be examined, the estimate of costs may include the cost for employee time to locate or identify records which are responsive to the request.~~

The estimate of costs may include attorney fees if the request will require that the requested records be reviewed by an attorney to determine whether portions of the records ~~which~~ are confidential attorney-client privilege or attorney work product, ~~or~~ are otherwise ~~privileged records~~ protected confidential information.

#### 516.8 PREPAYMENT OF COSTS

When the estimated costs to fulfill a request to examine or copy a public record will exceed \$50.00, fulfillment of the request may be contingent on the Water Works receiving prepayment in advance of the expenses to be incurred in fulfilling the request.

#### 516.9 EXAMINATION OF RECORDS

Public records are available for public examination during office hours at the main office of the Des Moines Water Works at 2201 George Flagg Parkway, Des Moines, Iowa 50321, or at such other location in Des Moines, Iowa, as the Director of Customer Service shall specify. Examination includes, but is not limited to, the right of an examining party to make copies on site by means which do not require unreasonable accommodation by the Water Works. Examination of records shall be done under the supervision of a Water Works employee, at the cost of the requesting party.

#### 516.10 TIMING (revised January 2023)

Most ~~Re~~ requests to examine and copy public records will be granted or denied within twenty days of the request, and ordinarily within ten business days of the request. However, depending on the size and nature of the request, Water Works may require additional time to respond to a request. If the request is to be fulfilled by providing copies of records, Water Works will make reasonable efforts to provide such copies ~~should be provided~~ within twenty days of the request, and ordinarily within ten business days of the request, unless additional time is necessary due to the size and nature of the request. Water Works will determine whether records should be withheld to protect confidentiality within a reasonable time, not to exceed twenty days of the request.

#### 516.11 COPIES OF RECORDS

Paper copies of public records will be made available during office hours upon request. A Water Works employee shall perform any copying using Water Works copying facilities or copying services of an outside vendor will be engaged in the discretion of the Director of Customer Service. The cost of paper copies will be actual costs incurred. If an outside copy vendor is utilized such cost shall be the amount paid to the vendor, without markup for overhead. If the Des Moines Water Works makes the copies using its own facilities the cost shall be deemed to be \$1.00 for the first page and \$0.25 per page thereafter unless special circumstances indicate a different actual cost.

#### 516.12 ELECTRONIC RECORDS AND COPIES (revised January 2023)

Public records maintained in electronic format may be provided in an electronic format useable with commonly available data processing or database management software. Copies of other public records may also be provided in electronic form. The amount charged for access to electronically maintained public records, and for copies provided in electronic form shall be the costs required for electronic search and retrieval of the information and direct publication or reproduction costs, including but not limited to editing, compilation, and media production costs incurred by the Water Works for transfer to the requestor. No person is permitted to access the data processing software Water Works uses to access or store public records. If a person requests a record that is combined with the data processing software then Water Works will separate the record from the data processing software prior to providing the record to the person requesting the record. Water Works will bear the cost of separating a record from the data processing software.

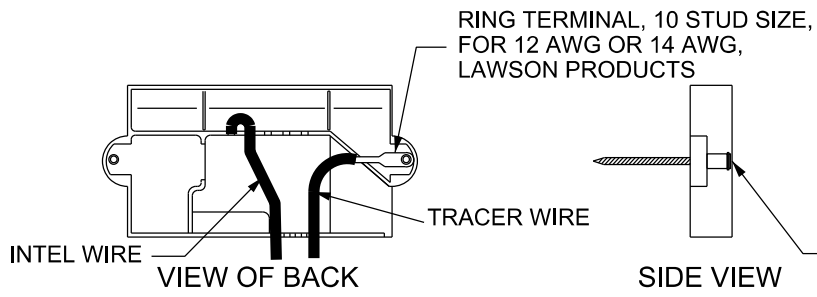
#### 516.13 INCIDENTAL COPIES

Staff of the Water Works may provide copies of public records to any person, including a customer, without charge in their discretion when incidental to the conduct of business.

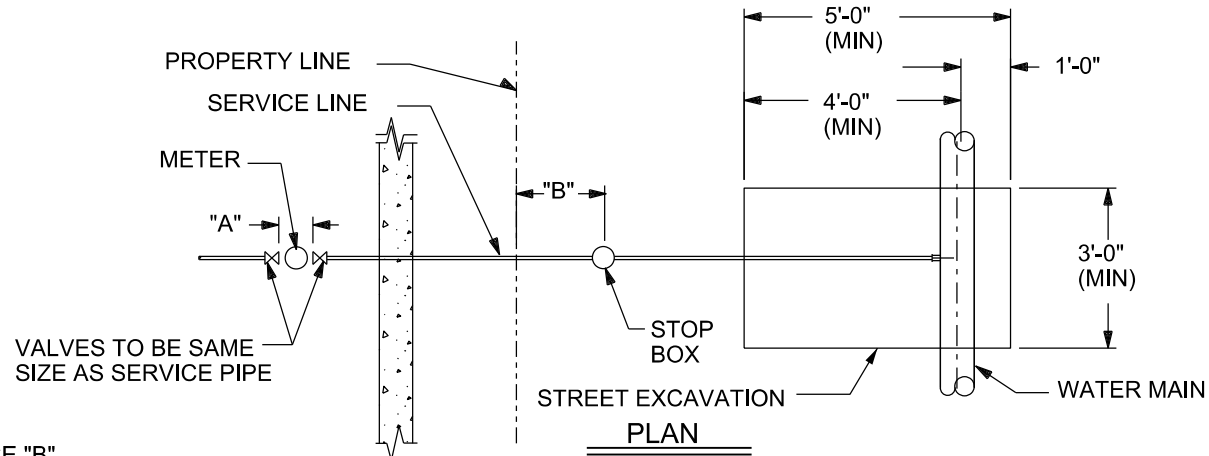
#### 516.14 COURTESY COPIES

To the extent public records are not available online, copies of requested public records may be provided without charge to accredited representatives of news organizations and to bona fide interest groups, non-profit entities and government agencies having an interest in the matters set forth in the public records. The Director of Customer Service shall have the right to limit the number of courtesy copies provided without charge to any recipient if providing requested copies without charge would impose an undue financial burden on the Water Works.

METER SPACING	
SIZE OF METER	"A" - FACE TO FACE OF VALVES
5/8"	11-3/4"
3/4"	13-3/4"
1"	15-3/4"

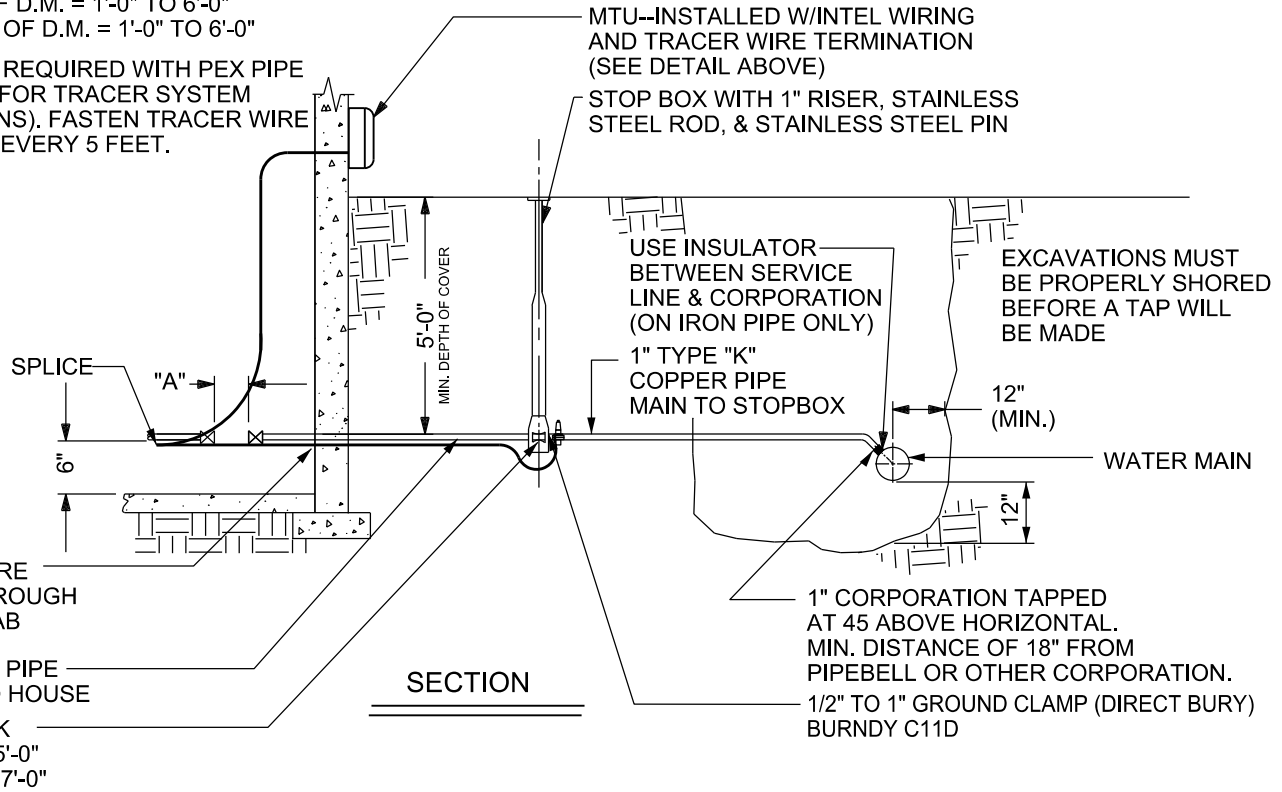


MTU UNIT DETAIL



DISTANCE "B"  
 INSIDE CITY OF D.M. = 1'-0" TO 6'-0"  
 OUTSIDE CITY OF D.M. = 1'-0" TO 6'-0"

TRACER WIRE REQUIRED WITH PEX PIPE (SEE 505.5.2.5 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TRACER WIRE WITH ZIP TIES EVERY 5 FEET.



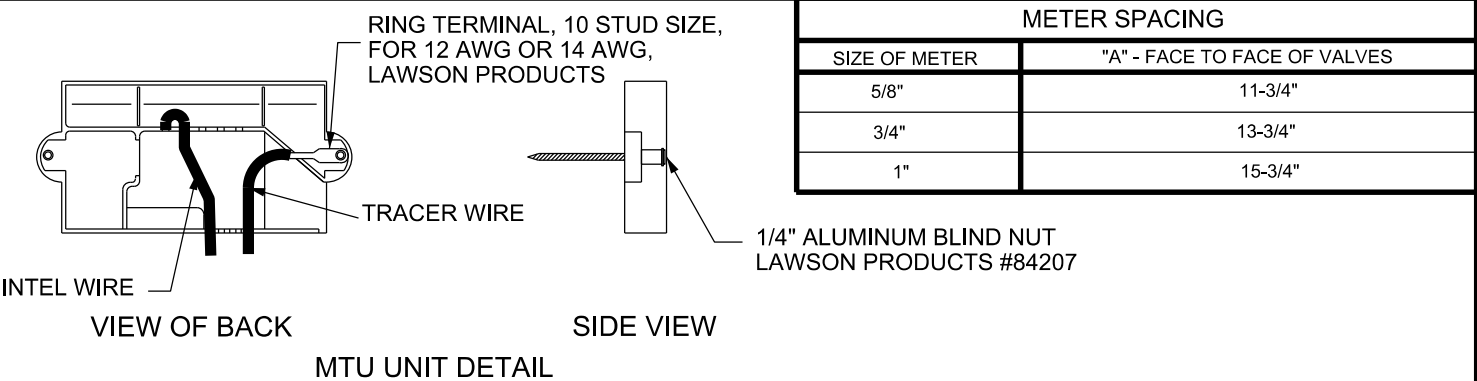
**Des Moines Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

**DETAIL OF 1" SERVICE COPPER TO BOX/PEX TO HOUSE (REPAIR OPTION ONLY)**

SCALE: NONE	DATE: 5-19-96
DRAWN BY: DLH	APPROVED BY: TPC
REVISED: 10/05/2022 DLH	

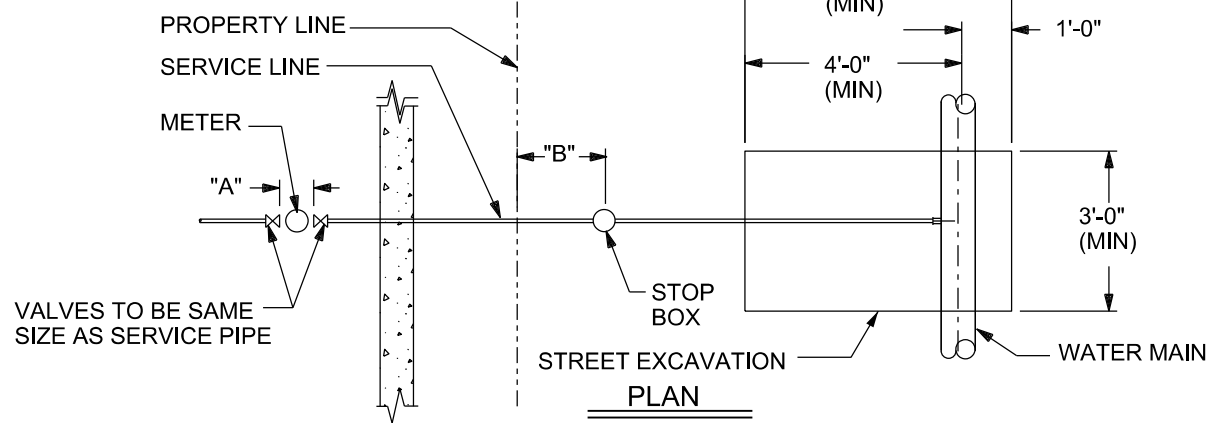
512-1A  
 FIGURE 1A



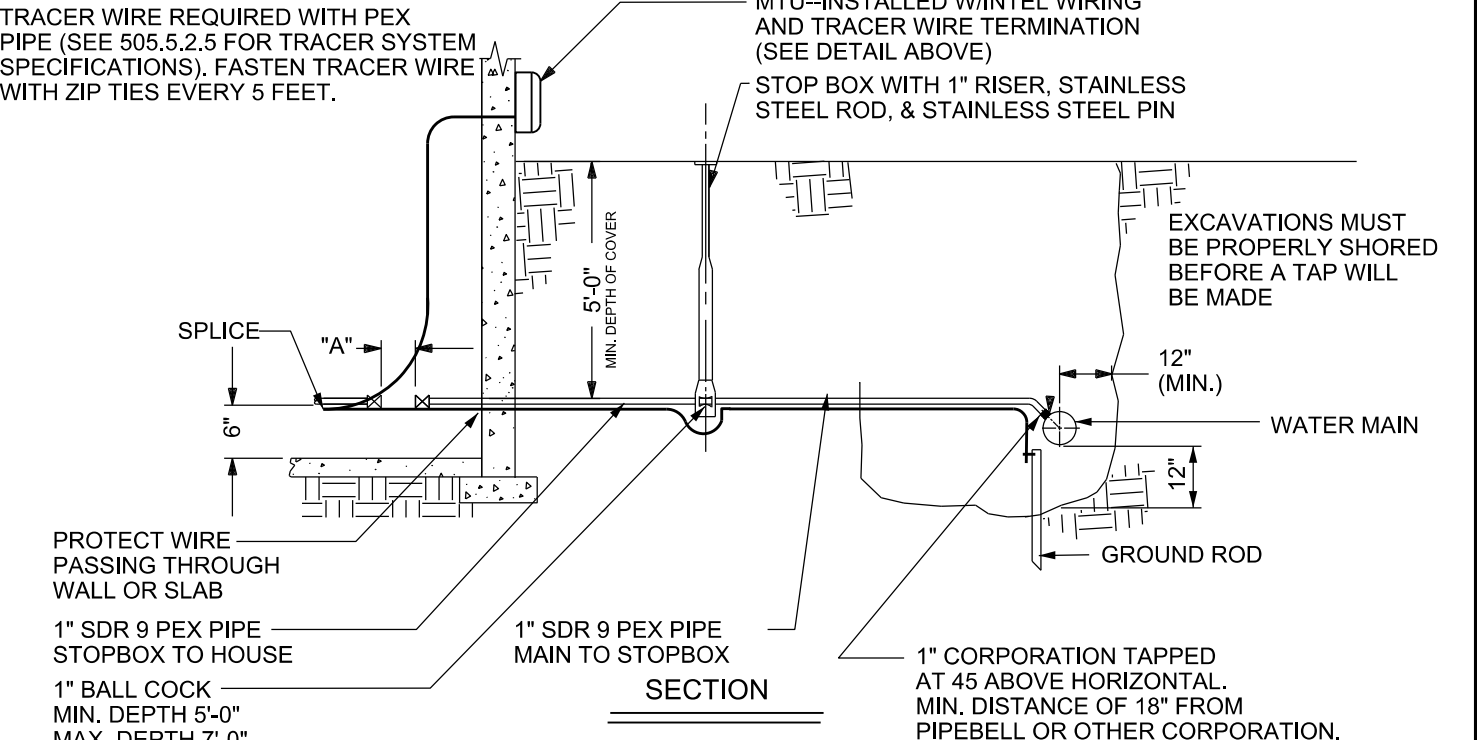


METER SPACING	
SIZE OF METER	"A" - FACE TO FACE OF VALVES
5/8"	11-3/4"
3/4"	13-3/4"
1"	15-3/4"

DISTANCE "B"  
 INSIDE CITY OF D.M. = 1'-0" TO 6'-0"  
 OUTSIDE CITY OF D.M. = 1'-0" TO 6'-0"



TRACER WIRE REQUIRED WITH PEX PIPE (SEE 505.5.2.5 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TRACER WIRE WITH ZIP TIES EVERY 5 FEET.

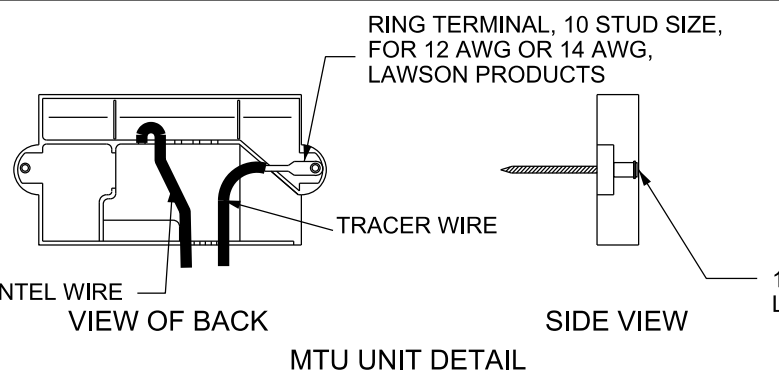


**Des Moines Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

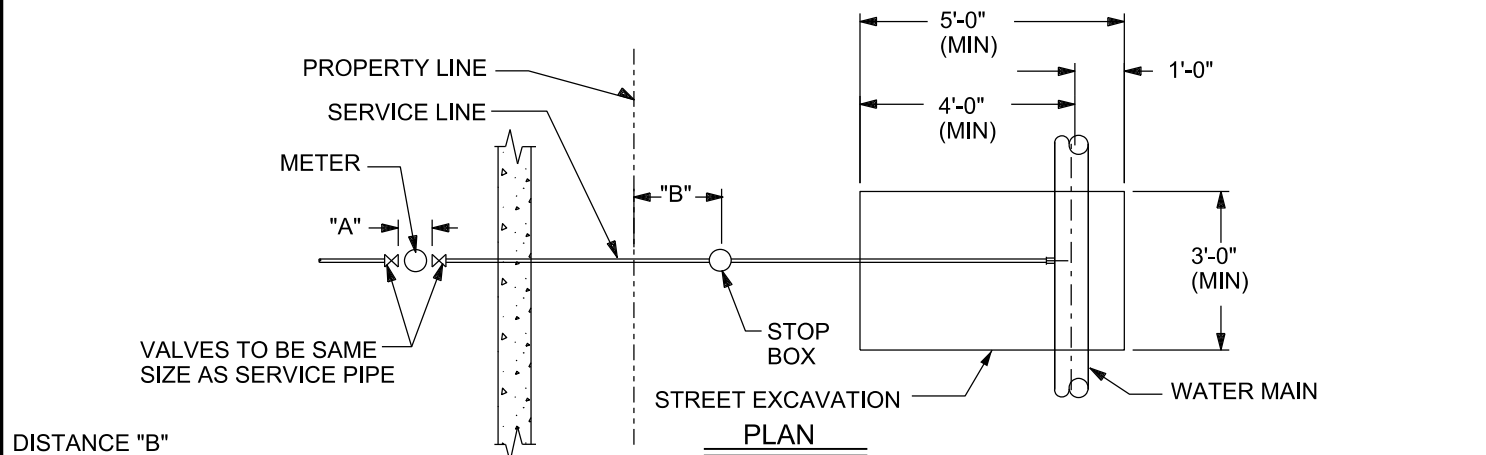
**DETAIL OF 1" PEX SERVICE INSTALLATION**

SCALE: NONE	DATE: 4-13-2007
DRAWN BY: SSD	APPROVED BY: TPC
REVISED: 10/05/2022 DLH	

512-1B  
 FIGURE 1B

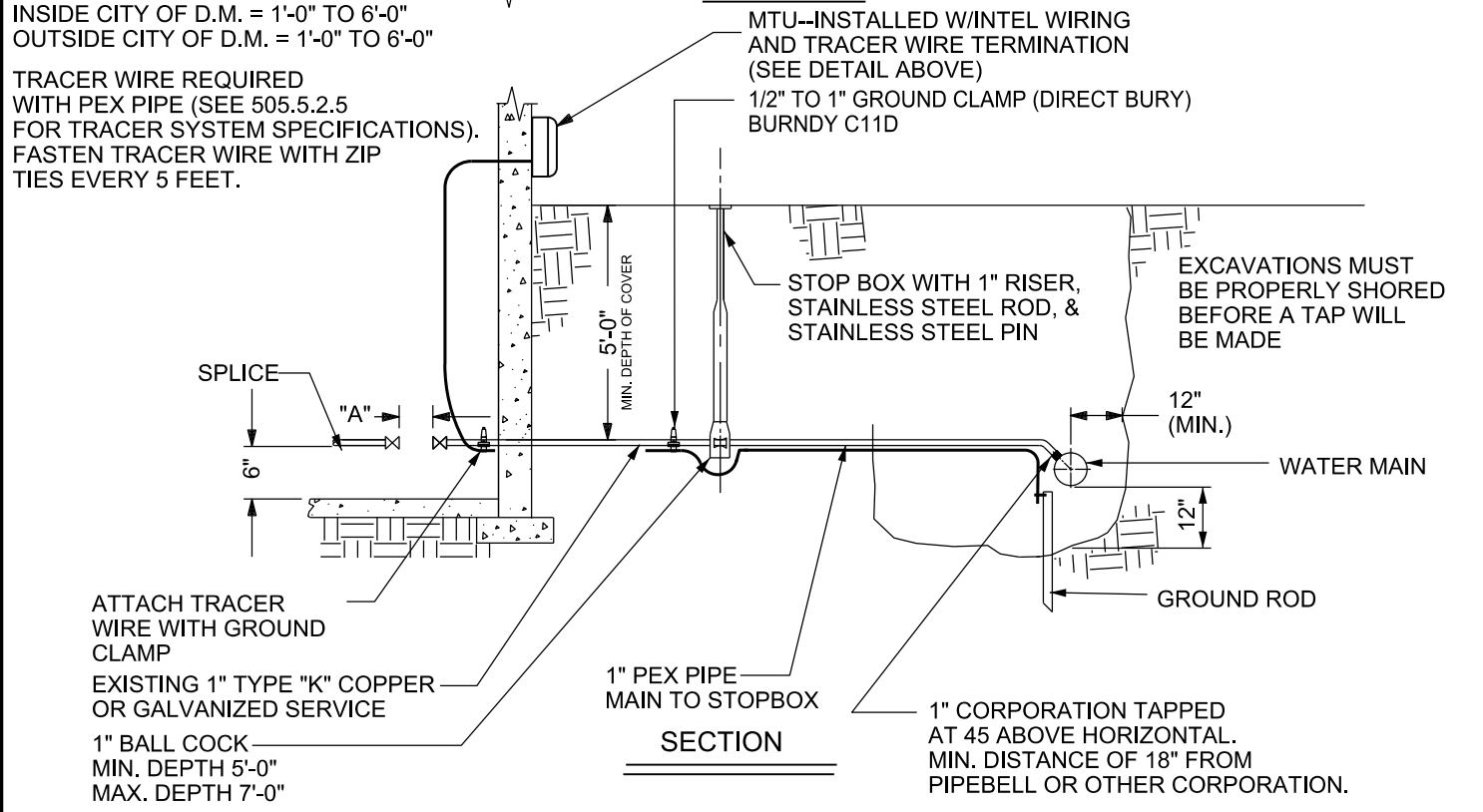


METER SPACING	
SIZE OF METER	"A" - FACE TO FACE OF VALVES
5/8"	11-3/4"
3/4"	13-3/4"
1"	15-3/4"



DISTANCE "B"  
 INSIDE CITY OF D.M. = 1'-0" TO 6'-0"  
 OUTSIDE CITY OF D.M. = 1'-0" TO 6'-0"

TRACER WIRE REQUIRED WITH PEX PIPE (SEE 505.5.2.5 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TRACER WIRE WITH ZIP TIES EVERY 5 FEET.



ATTACH TRACER WIRE WITH GROUND CLAMP  
 EXISTING 1" TYPE "K" COPPER OR GALVANIZED SERVICE  
 1" BALL COCK  
 MIN. DEPTH 5'-0"  
 MAX. DEPTH 7'-0"

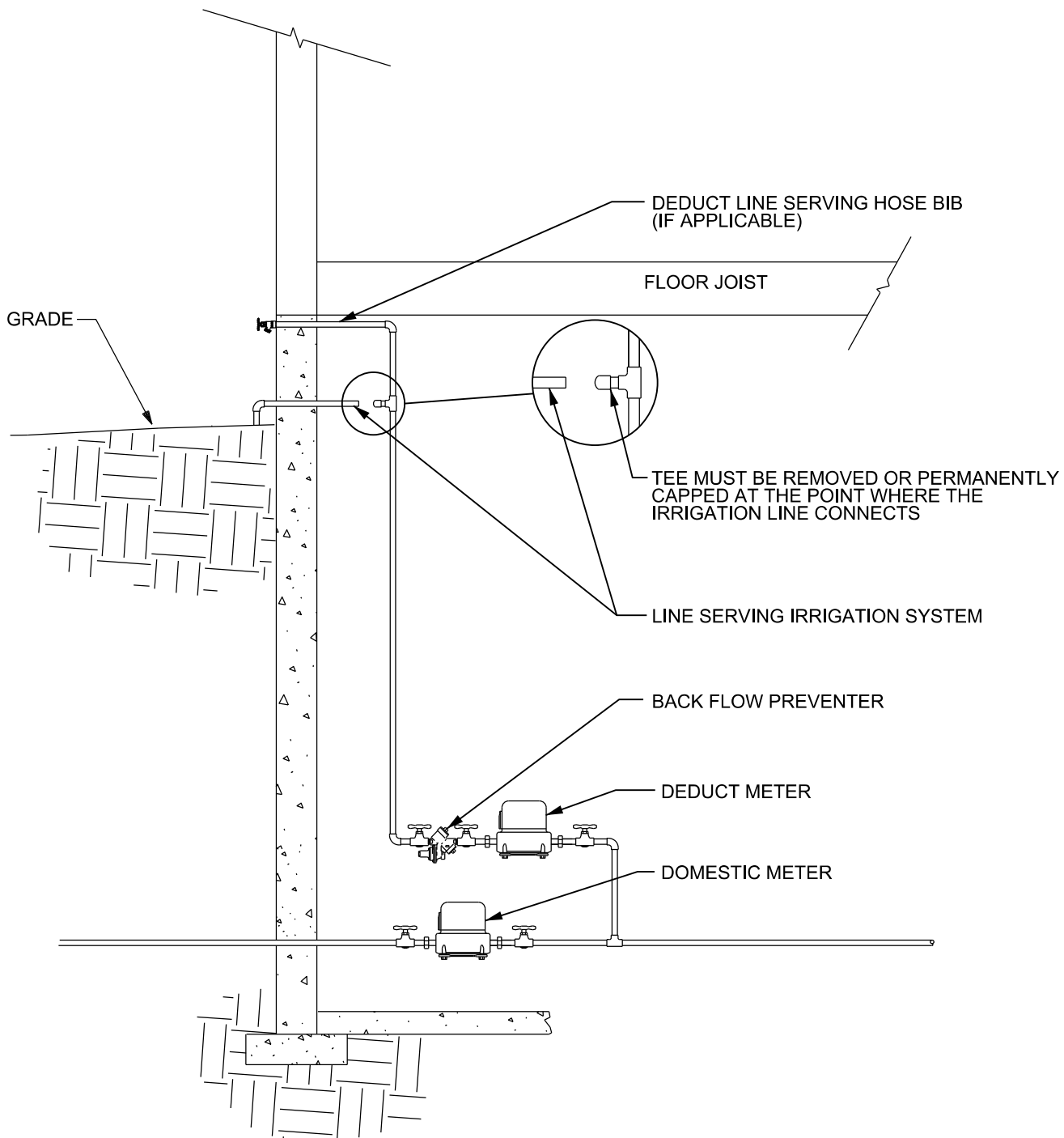
**Des Moines Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

**DETAIL OF 1" SERVICE PEX MAIN TO STOPBOX (REPAIR OPTION ONLY)**

SCALE: NONE	DATE: 4-13-2007
DRAWN BY: SSD	APPROVED BY: TPC
REVISED: 10/05/2022 DLH	

512-1C  
 FIGURE 1C

U:\Projects in Design\ENGINEERING\ES&REGS\Current\files\512-13D.DGN

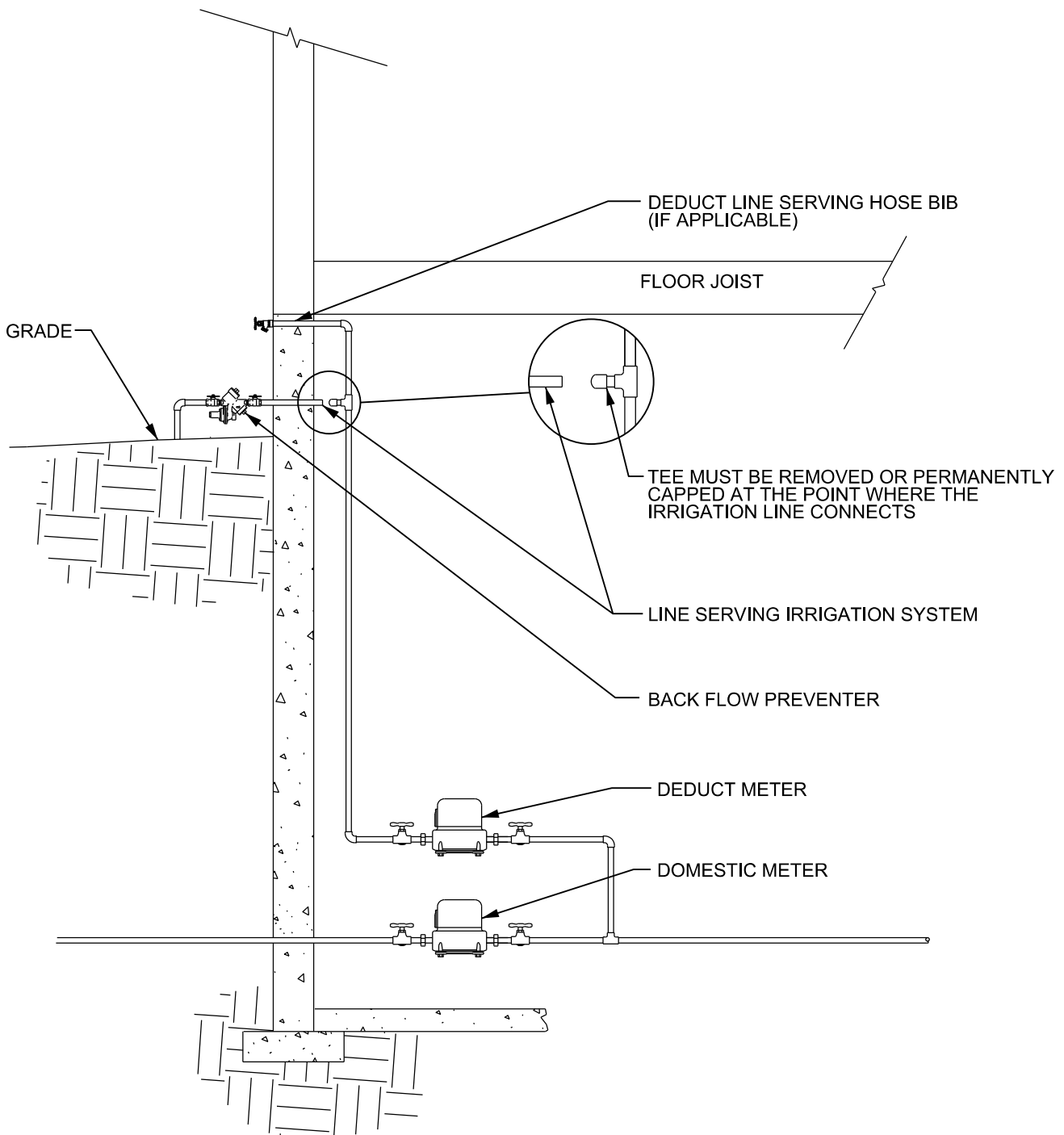


**Des Moines**  
**Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

IRRIGATION SYSTEM DECOMMISSION AND BACKFLOW (INSIDE) PREVENTER REMOVAL	
SCALE: NONE	DATE: 9/23/2022
DRAWN BY: DLH	APPROVED BY: JJL

512-13  
FIGURE 13D

U:\Projects in Design\DN\GENR\JUL\ES&REGS\Current\files\512-13E.DGN

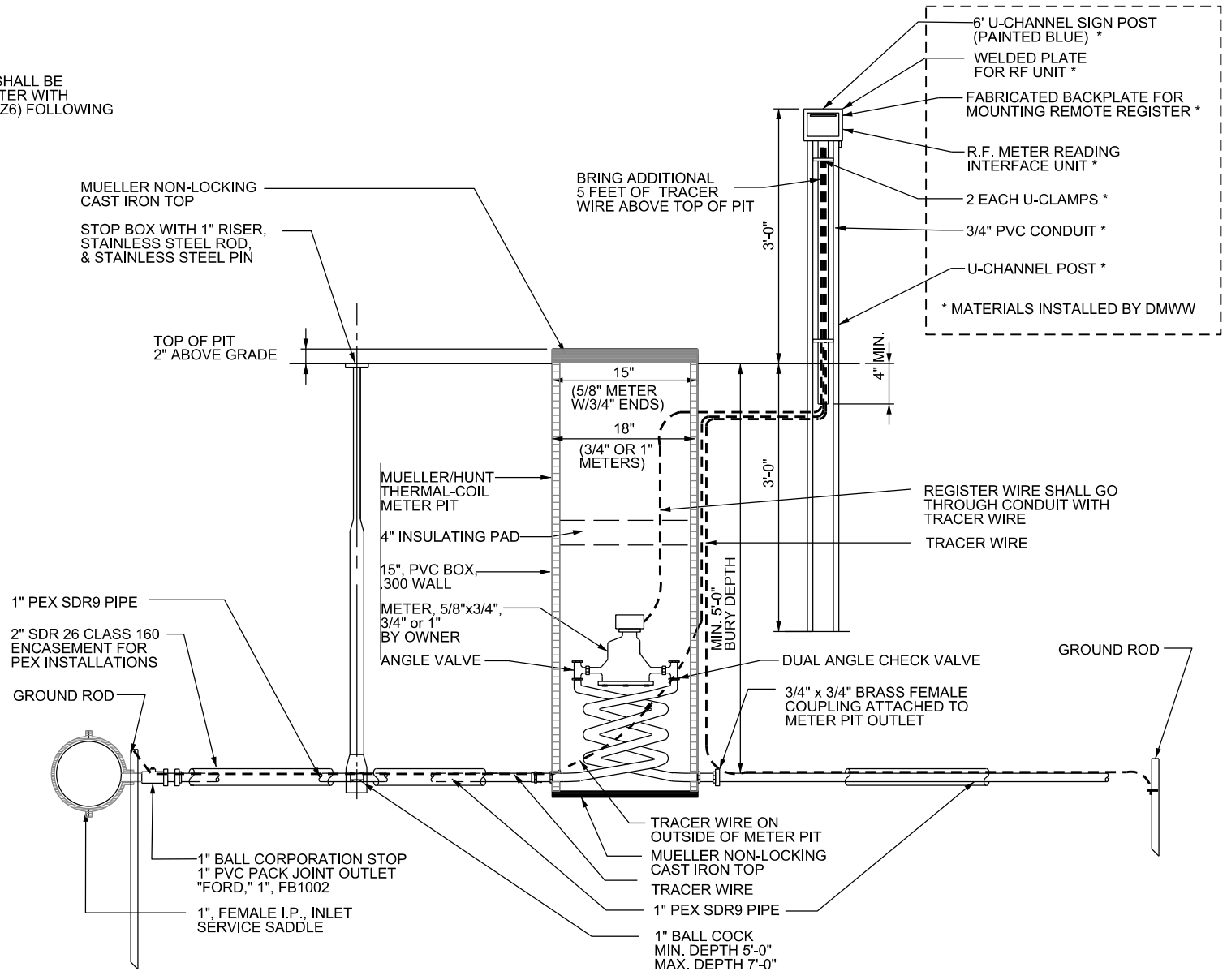


<p><b>Des Moines</b>  <b>Water Works</b>  <small>Water You Can Trust for Life</small>  <b>ENGINEERING DEPARTMENT</b>          Des Moines, Iowa</p>	<b>IRRIGATION SYSTEM          DECOMMISSION AND BACKFLOW (OUTSIDE)          PREVENTER REMOVAL</b>	
	SCALE: NONE	DATE: 9/23/2022
	DRAWN BY: DLH	APPROVED BY: JJL

512-13  
FIGURE 13E

NOTE:  
METER PITS SHALL BE  
66" IN LENGTH (MIN.)

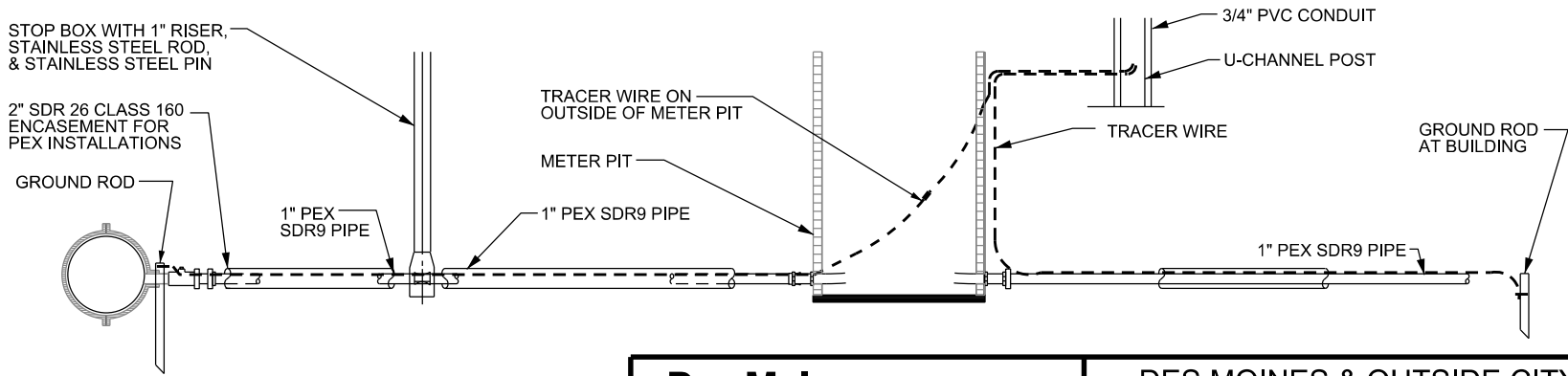
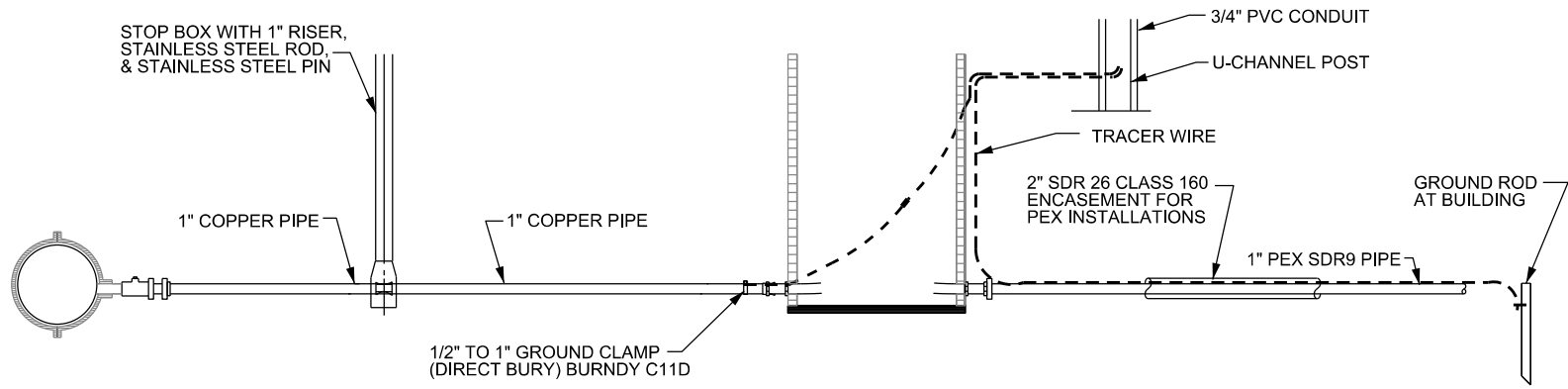
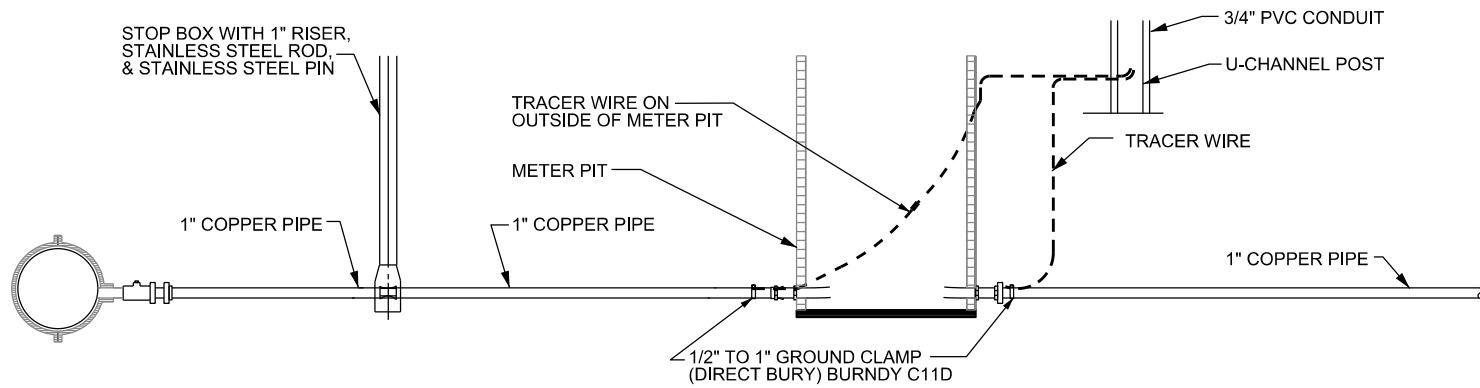
NOTE:  
WHEN SPECIFIED THE SETTER SHALL BE  
PROVIDED WITH A TANDEM SETTER WITH  
A 3/4" WATTS REGULATOR (5M3-Z6) FOLLOWING  
METER.



TRACER WIRE REQUIRED  
WITH PEX PIPE (SEE 505.5.2.5  
FOR TRACER SYSTEM SPECIFICATIONS).  
FASTEN TRACER WIRE WITH ZIP  
TIES EVERY 5 FEET.

		<b>OUTSIDE CITY OF DES MOINES WATER SERVICE AND METER PIT DETAIL</b>	
		SCALE: NONE	DATE: 6-29-2007
ENGINEERING DEPARTMENT		DRAWN BY: DLH	APPROVED BY: TPC
Des Moines, Iowa		REVISED: 10/05/2022 DLH	

512-16A  
FIGURE 16A



- NOTES:
1. BRING ADDITIONAL 5 FEET OF TRACER WIRE ABOVE TOP OF PIT
  2. TRACER WIRE REQUIRED WITH PEX PIPE (SEE 505.5.2.5 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TRACER WIRE WITH ZIP TIES EVERY 5 FEET.

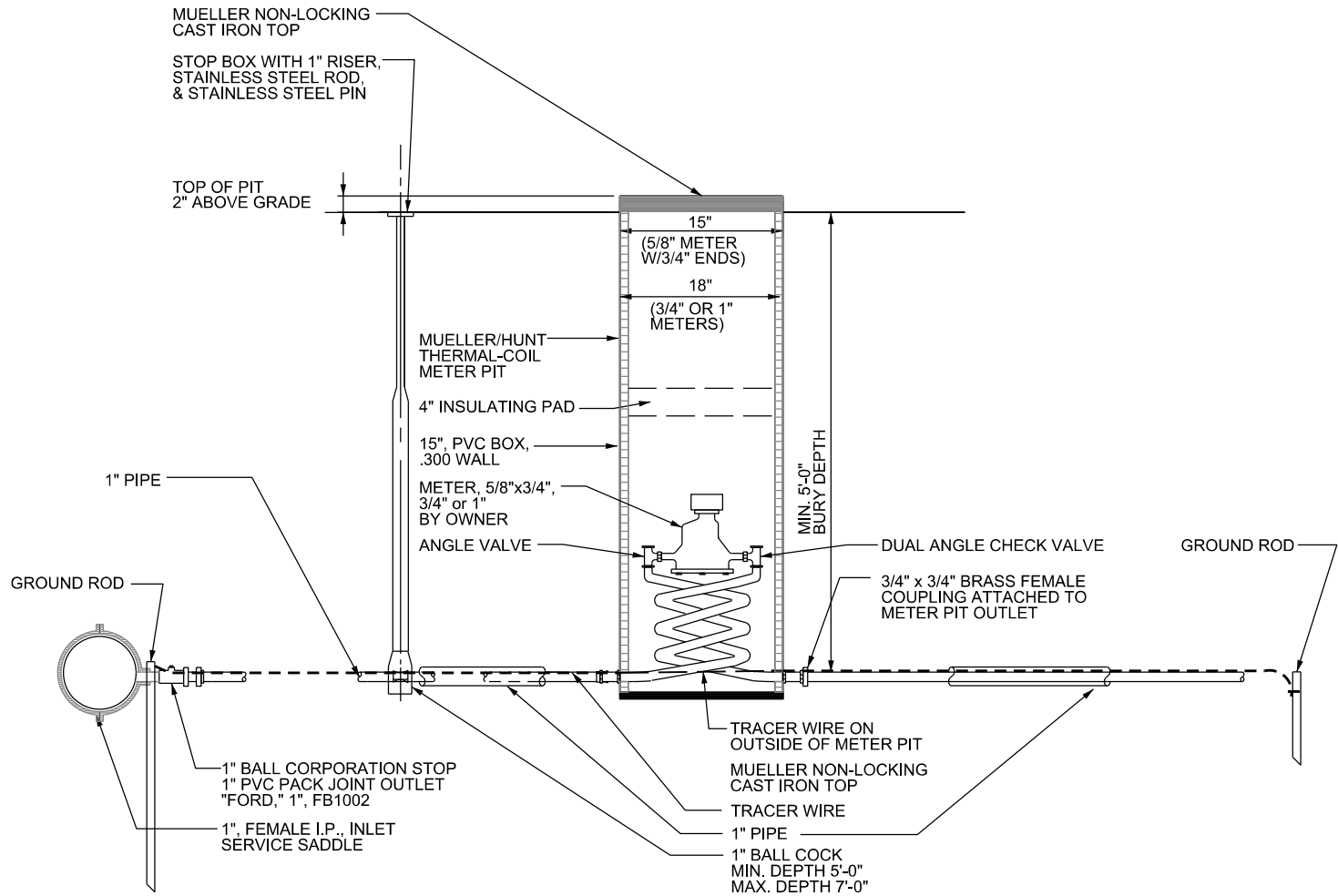
**Des Moines Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

DES MOINES & OUTSIDE CITY 1"-2" WATER SERVICE W/ METER PIT TRACER WIRE DETAIL	
SCALE: NONE	DATE: 6-29-2007
DRAWN BY: DLH	APPROVED BY: TPC
REVISED: 10/05/2022 DLH	

512-16B  
 FIGURE 16B

NOTE:  
METER PITS SHALL BE  
66" IN LENGTH (MIN.)

NOTE:  
WHEN SPECIFIED THE SETTER SHALL BE  
PROVIDED WITH A TANDEM SETTER WITH  
A 3/4" WATTS REGULATOR (5M3-Z6) FOLLOWING  
METER.



TRACER WIRE REQUIRED WITH PEX PIPE (SEE 505.5.2.5 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TRACER WIRE WITH ZIP TIES EVERY 5 FEET.

<p><b>Des Moines</b>  <b>Water Works</b>  <small>Water You Can Trust for Life</small></p> <p>ENGINEERING DEPARTMENT          Des Moines, Iowa</p>	<p>INSIDE CITY OF DES MOINES          WATER SERVICE          AND METER PIT DETAIL</p>	
	SCALE: NONE	DATE: 10/02/2019
	DRAWN BY: JLH	APPROVED BY: TPC
	REVISED: 10/06/2022 DLH	

512-16C  
FIGURE 16C

\* WHEN BYPASS RUNS ON OUTSIDE OF METER PIT  
 INSTALL TRACER WIRE ON BYPASS (DON'T RUN  
 WIRE THROUGH PIT UNLESS THE BYPASS IS INSIDE THE PIT)

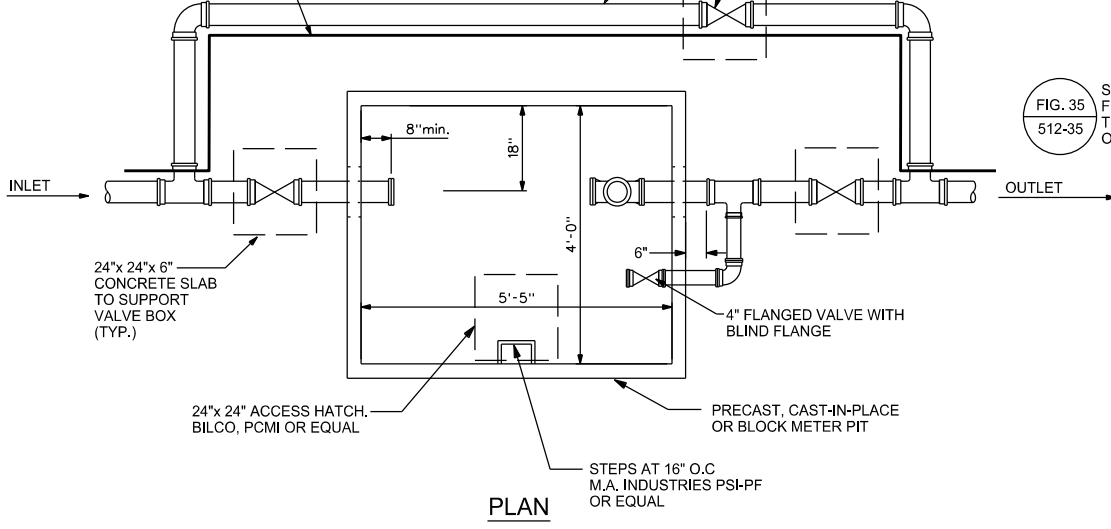
TRACER WIRE MAY BE INSTALLED IN  
 PLASTIC CONDUIT FOR ADDITIONAL  
 PROTECTION FROM POTENTIAL DAMAGE,  
 BUT IT IS NOT REQUIRED.

TRACER WIRE  
 (SEE 505.6.6 FOR TRACER SYSTEM SPECIFICATIONS),  
 FASTEN TO MIDPOINT OF EACH PIPE SECTION  
 WITH PLASTIC TAPE. INSTALL ON ALL PIPE  
 MATERIALS EXCLUDING TYPE K COPPER  
 AND RED BRASS.

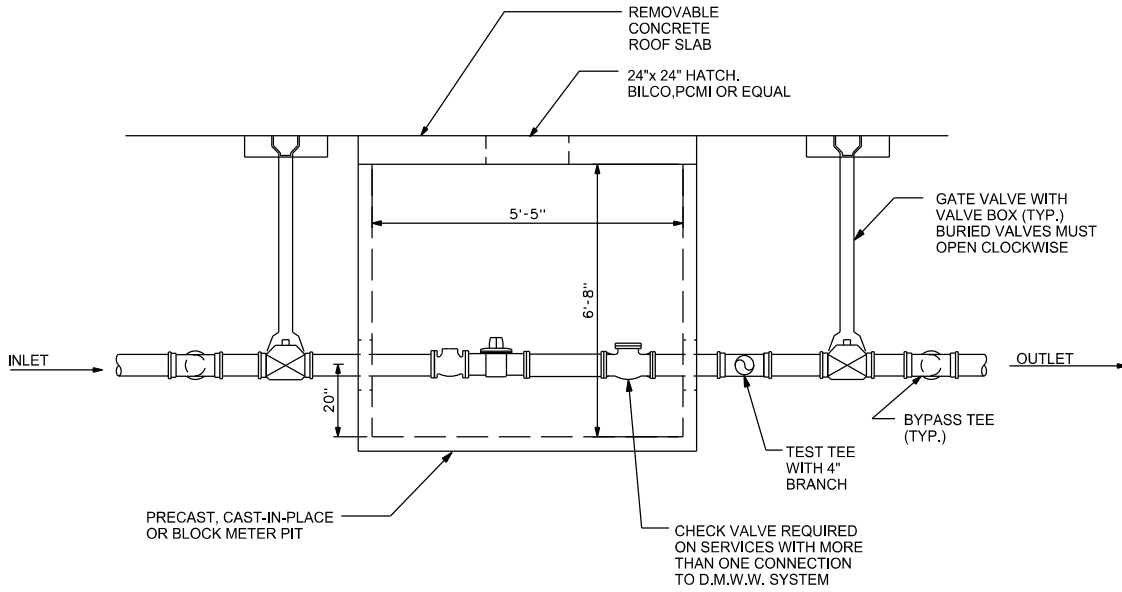
BYPASS REQUIRED  
 ON SERVICE WITH  
 ONLY ONE CONNECTION  
 TO D.M.W.W. SYSTEM

GATE VALVE WITH  
 VALVE BOX (TYP.)  
 BURIED VALVES MUST  
 OPEN CLOCKWISE

FIG. 35  
 512-35  
 SEE DETAIL  
 FOR TRACER WIRE  
 TERMINATION  
 OPTIONS



PLAN



SECTION

**Des Moines**  
**Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

TURBINE OR COMPOUND  
 METER PIT DETAIL  
 W/TRACER WIRE

SCALE: NONE

DATE: 5-10-1996

DRAWN BY: DLH

APPROVED BY: TPC

REVISED: 10/05/2022 DLH



\* WHEN BYPASS RUNS ON OUTSIDE OF METER PIT  
 INSTALL TRACER WIRE ON BYPASS (DON'T RUN  
 WIRE THROUGH PIT UNLESS THE BYPASS IS INSIDE THE PIT)

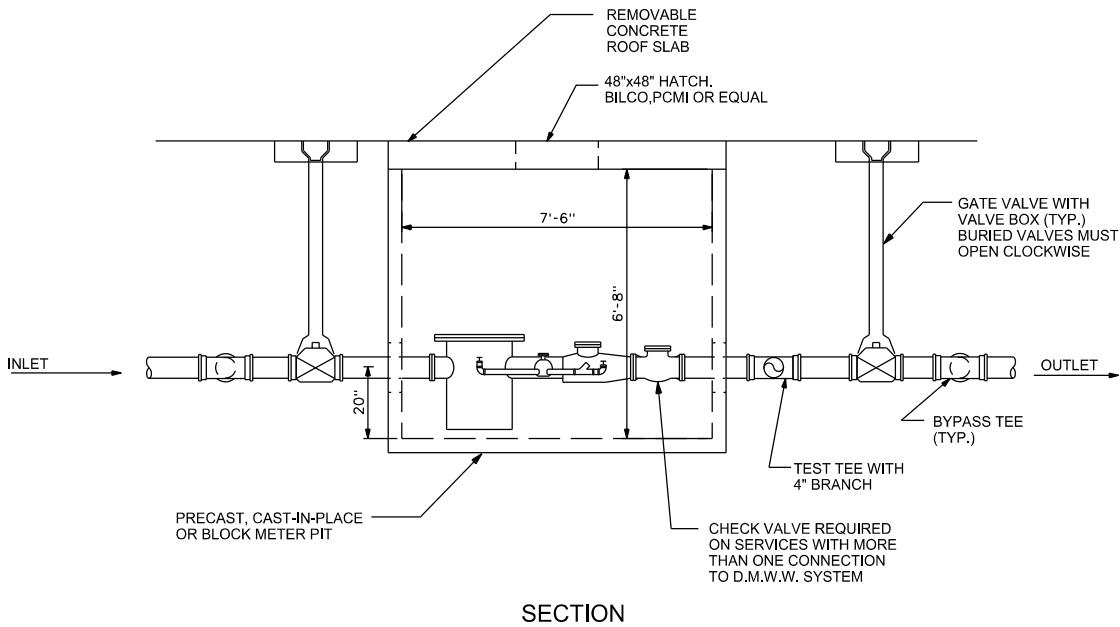
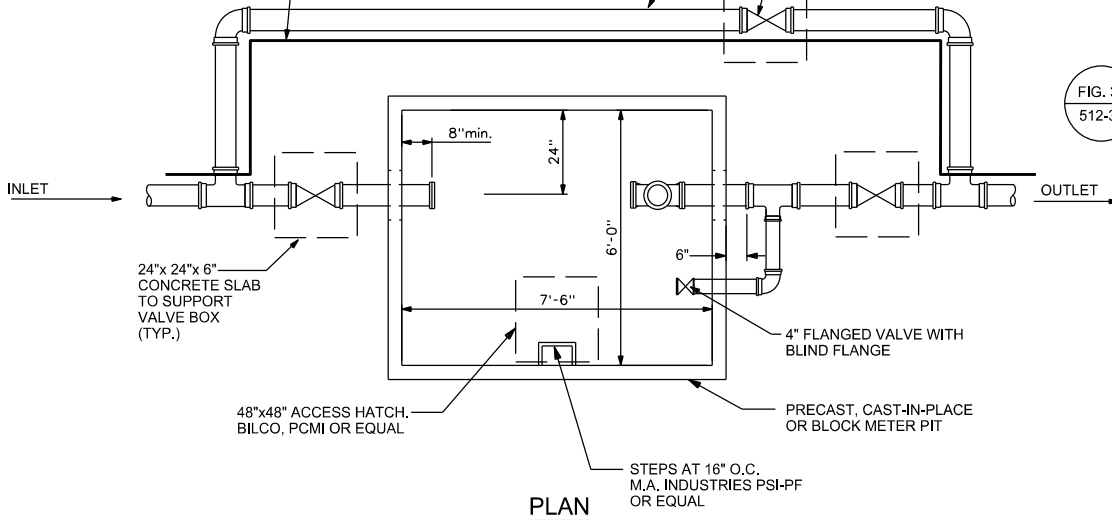
TRACER WIRE MAY BE INSTALLED IN  
 PLASTIC CONDUIT FOR ADDITIONAL  
 PROTECTION FROM POTENTIAL DAMAGE,  
 BUT IT IS NOT REQUIRED.

BYPASS REQUIRED  
 ON SERVICE WITH  
 ONLY ONE CONNECTION  
 TO D.M.W.W. SYSTEM

TRACER WIRE  
 (SEE 505.6.6 FOR TRACER SYSTEM SPECIFICATIONS),  
 FASTEN TO MIDPOINT OF EACH PIPE SECTION  
 WITH PLASTIC TAPE. INSTALL ON ALL PIPE  
 MATERIALS EXCLUDING TYPE K COPPER  
 AND RED BRASS.

GATE VALVE WITH  
 VALVE BOX (TYP.)  
 BURIED VALVES MUST  
 OPEN CLOCKWISE

FIG. 35  
 512-35  
 SEE DETAIL  
 FOR TRACER WIRE  
 TERMINATION  
 OPTIONS



**Des Moines**  
**Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

**FIRE SERVICE METER PIT  
 DETAIL W/TRACER WIRE**

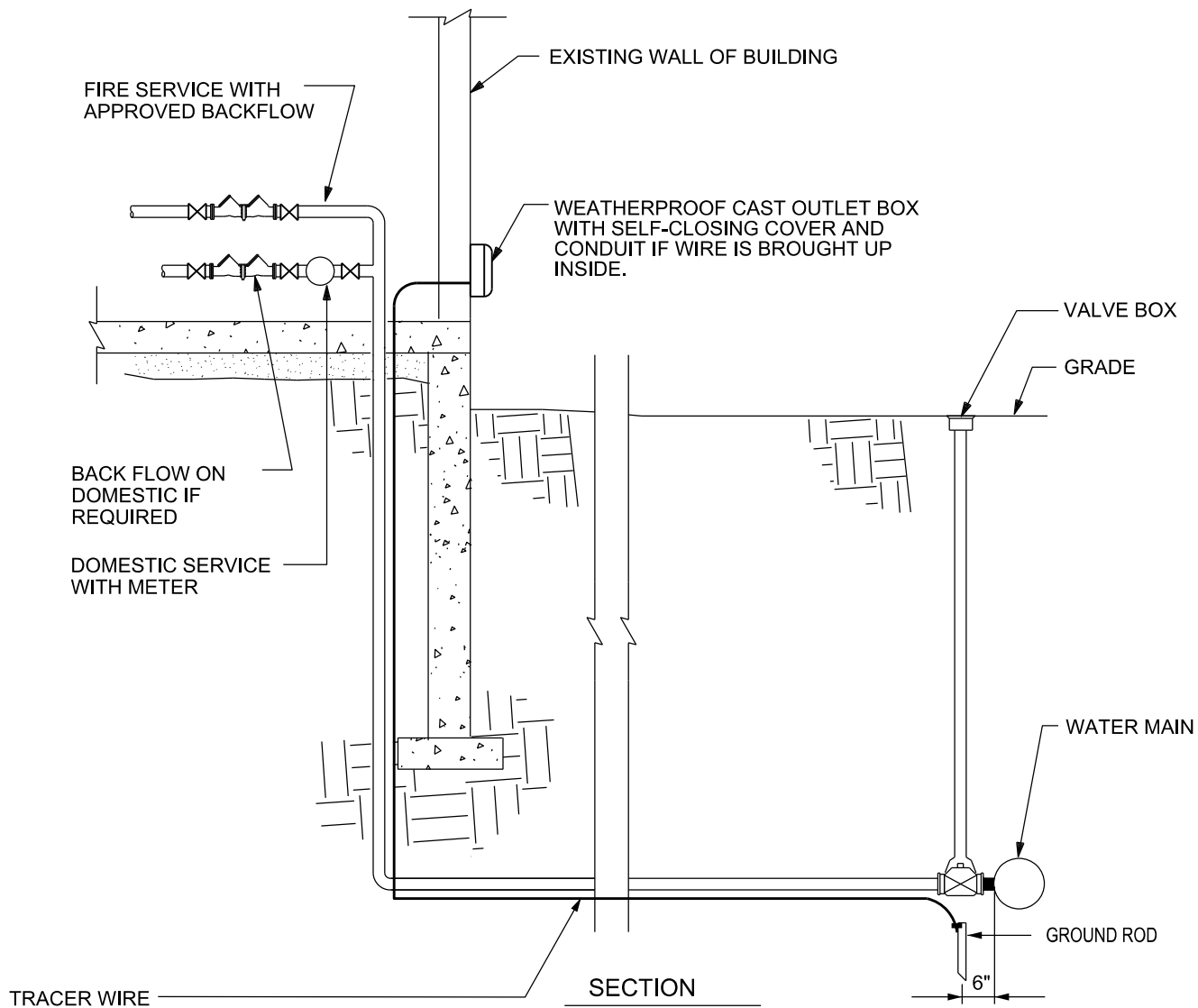
SCALE: NONE

DATE: 5-10-1996

DRAWN BY: DLH

APPROVED BY: TPC

REVISED: 10/06/2022 DLH



TRACER WIRE (SEE 505.6.6 FOR TRACER SYSTEM SPECIFICATIONS), FASTEN TO MIDPOINT OF EACH PIPE SECTION WITH PLASTIC TAPE. INSTALL ON ALL PIPE MATERIALS EXCLUDING TYPE K COPPER AND RED BRASS.

TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.

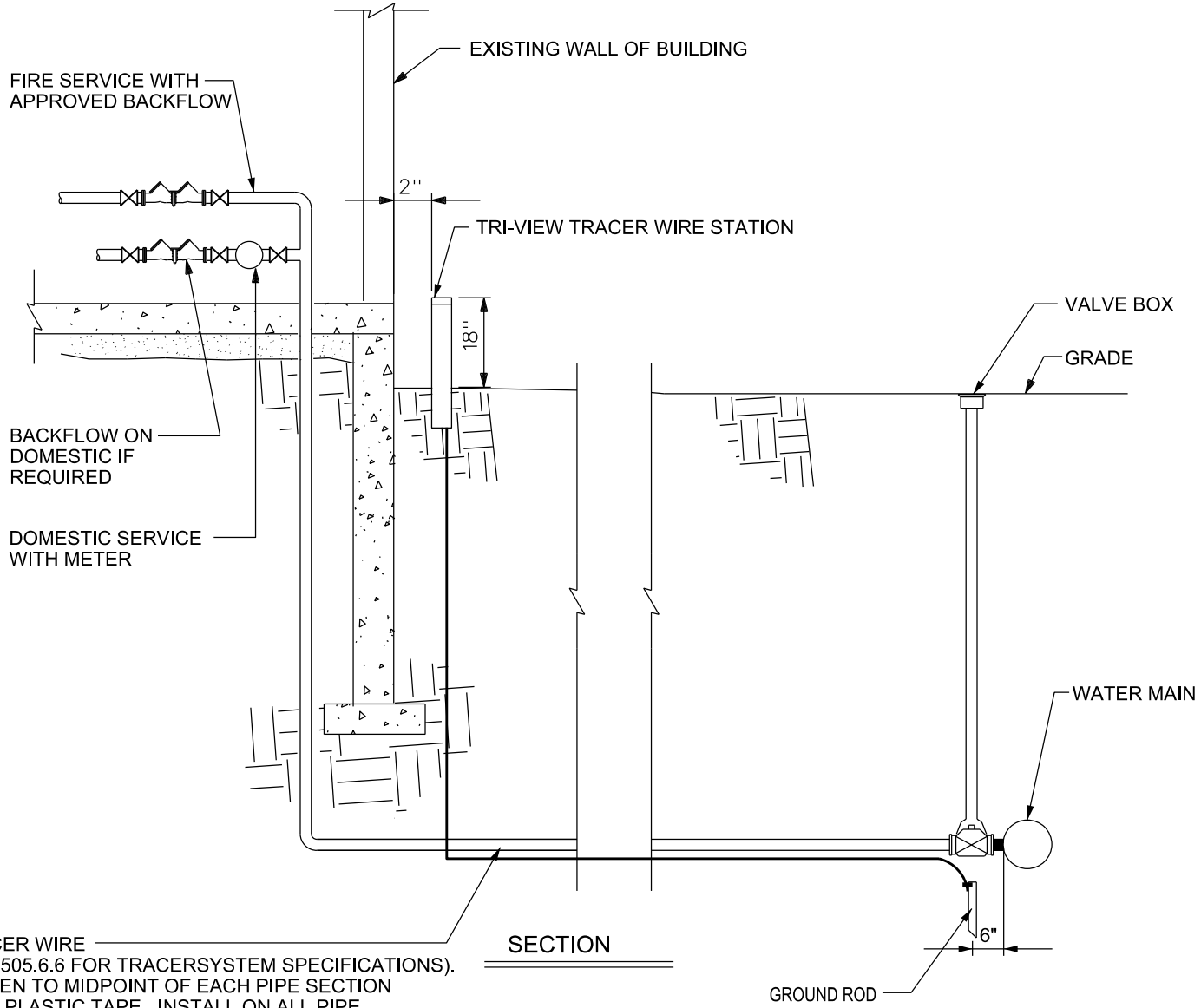
**Des Moines**  
**Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

TYPICAL COMBINATION FIRE & DOMESTIC SERVICE W/TRACER WIRE

SCALE: NONE DATE: 8-11-2000

DRAWN BY: DLH APPROVED BY: TPC

REVISED: 08/05/2014 JLH



TRACER WIRE (SEE 505.6.6 FOR TRACERSYSTEM SPECIFICATIONS). FASTEN TO MIDPOINT OF EACH PIPE SECTION WITH PLASTIC TAPE. INSTALL ON ALL PIPE MATERIALS EXCLUDING TYPE K COPPER AND RED BRASS.

TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.

**Des Moines**  
**Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

TYPICAL COMBINATION FIRE & DOMESTIC SERVICE W/TRI-VIEW TRACER WIRE STATION	
SCALE: NONE	DATE: 2-11-2005
DRAWN BY: DLH	APPROVED BY: TPC
REVISED: 10/06/2022 DLH	

512-20A  
 FIGURE 20A

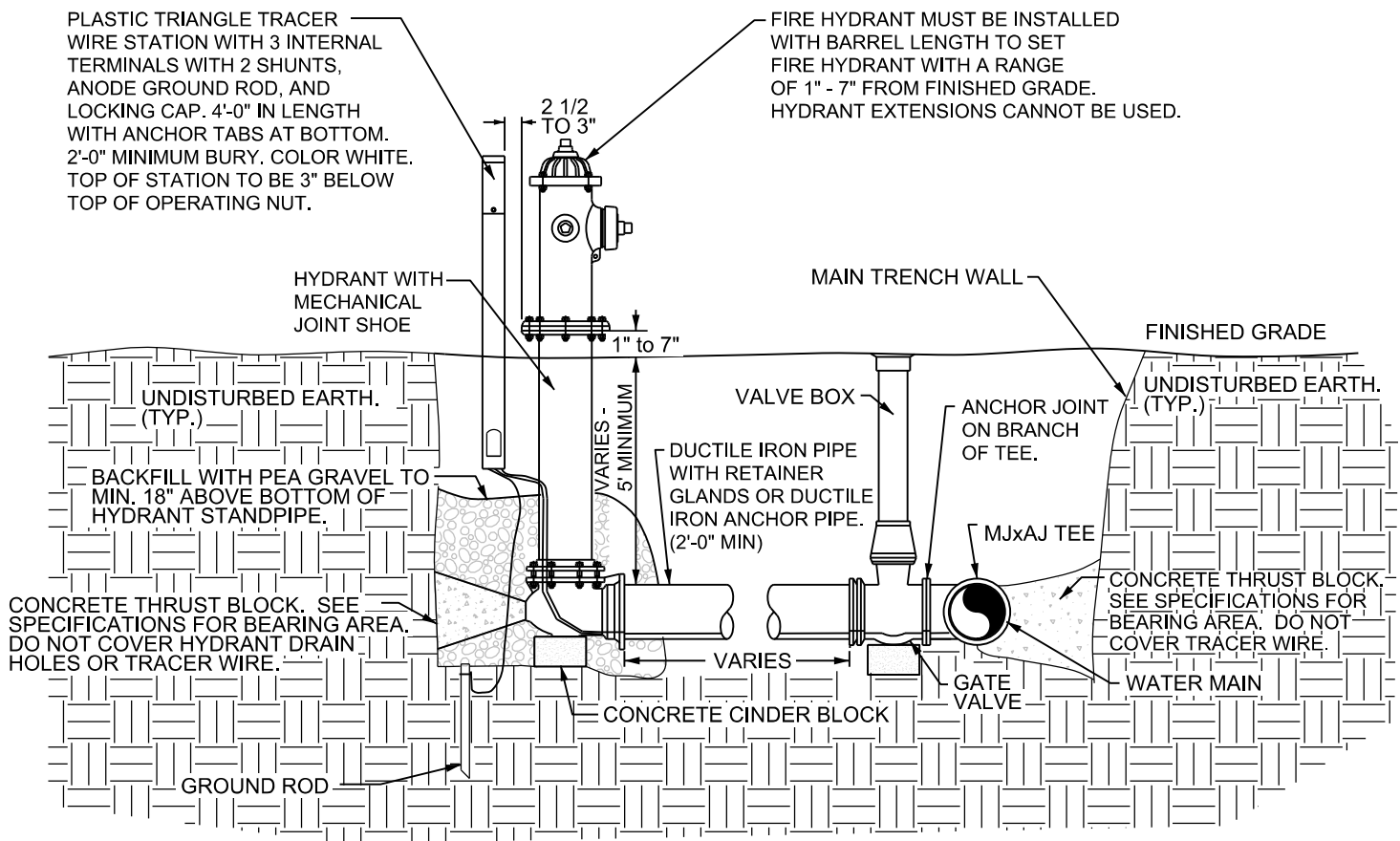
**NOTE:**

IRON PIPE, VALVE, FITTINGS AND HYDRANT (BURIED PORTION) TO BE WRAPPED WITH POLYETHYLENE ENCASEMENT MATERIAL PER DES MOINES WATER WORKS STANDARDS.

TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.

TRACER WIRE (SEE 505.6.6 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TO MIDPOINT OF EACH PIPE SECTION WITH PLASTIC TAPE. INSTALL ON ALL PIPE MATERIALS EXCLUDING TYPE K COPPER AND RED BRASS.

TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.



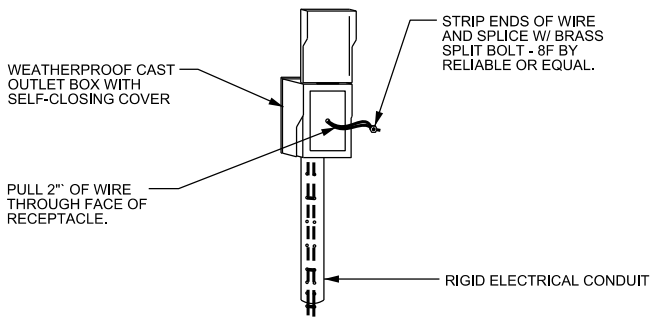
**STANDARD HYDRANT ON WATER MAINS 16" OR LESS**

NOT TO SCALE

**Des Moines Water Works**  
 Water You Can Trust for Life  
 ENGINEERING DEPARTMENT  
 Des Moines, Iowa

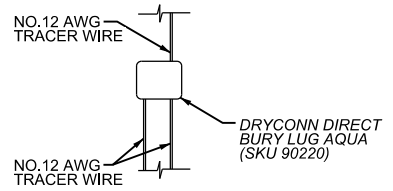
**STANDARD HYDRANT  
 DETAIL W/ TRACER WIRE**

SCALE: NONE	DATE: 5-10-1996
DRAWN BY: DLH	APPROVED BY: TPC
REVISED: 10/05/2022 DLH	



**TRACER WIRE RECEPTACLE DETAIL ON BUILDING**

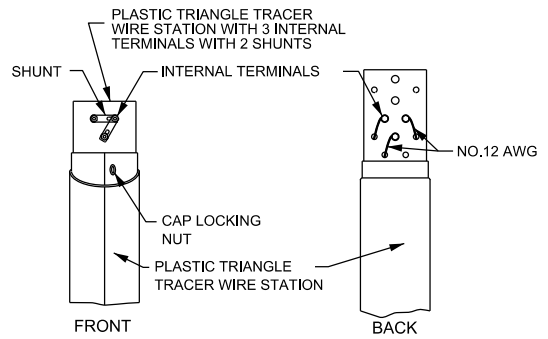
Not to Scale



\*SPICES PERMITTED ONLY WITH DMWW APPROVAL

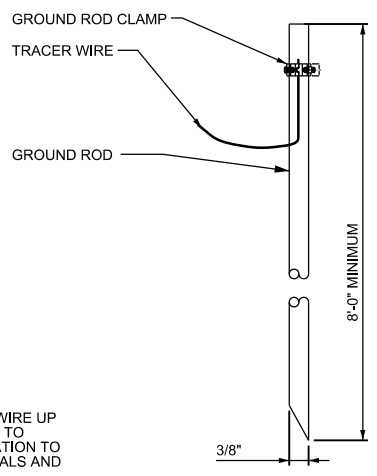
**TRACER WIRE SPLICE DETAIL**

Not to Scale



**TRACER WIRE RECEPTACLE DETAIL**

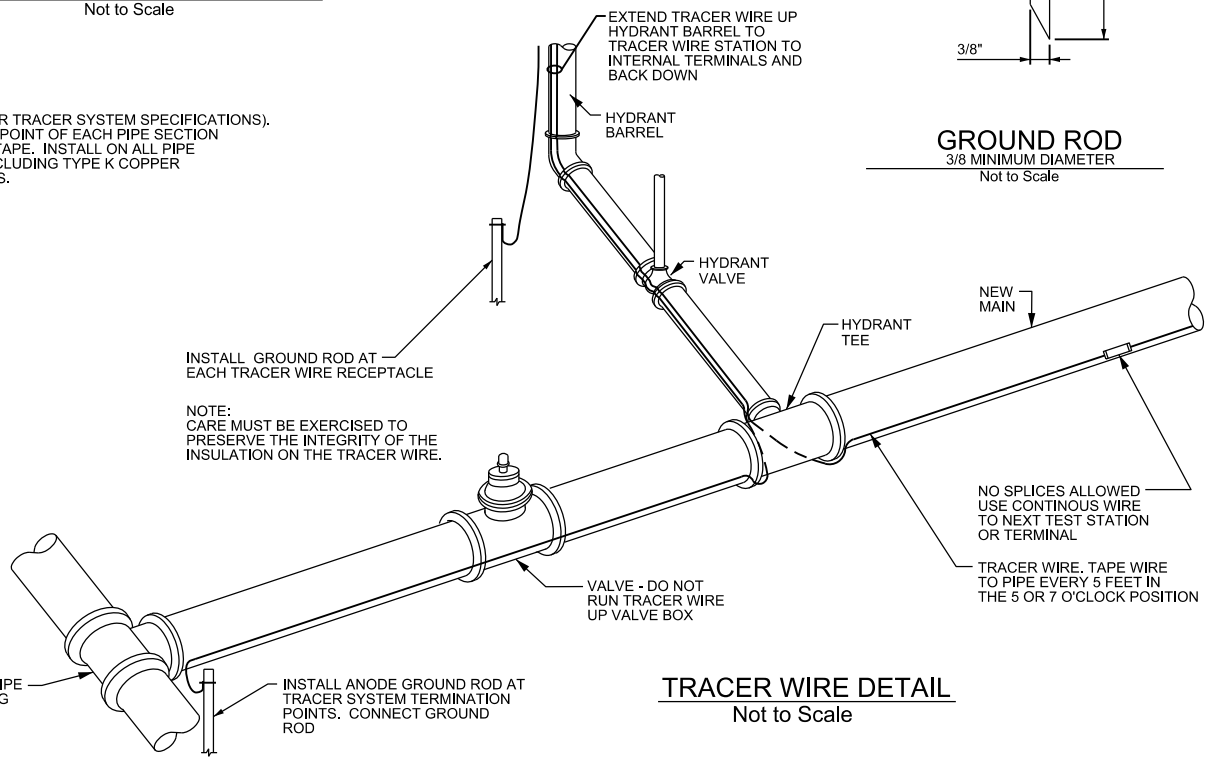
Not to Scale



**GROUND ROD**  
3/8" MINIMUM DIAMETER

Not to Scale

TRACER WIRE (SEE 505.6.6 FOR TRACER SYSTEM SPECIFICATIONS). FASTEN TO MIDPOINT OF EACH PIPE SECTION WITH PLASTIC TAPE. INSTALL ON ALL PIPE MATERIALS EXCLUDING TYPE K COPPER AND RED BRASS.

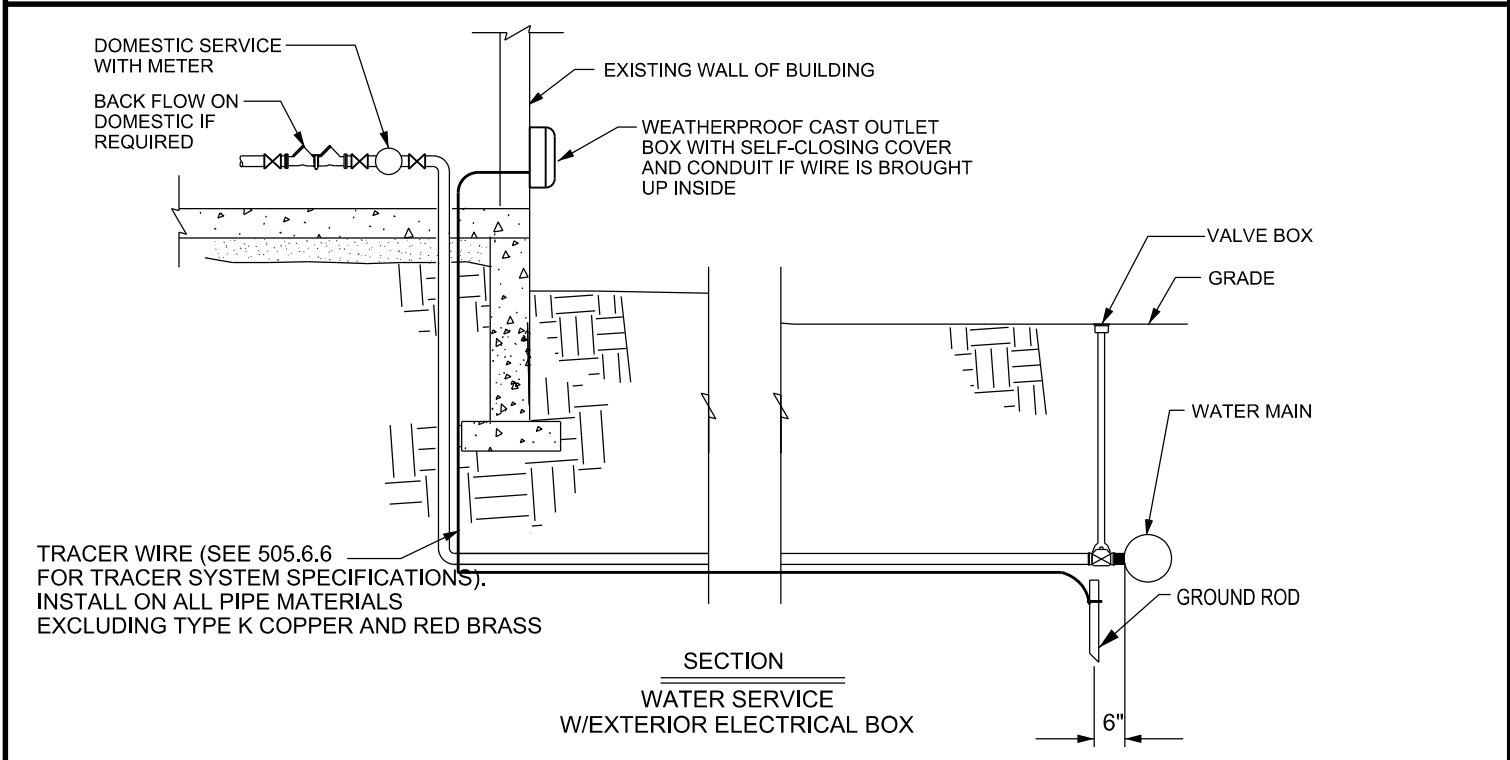
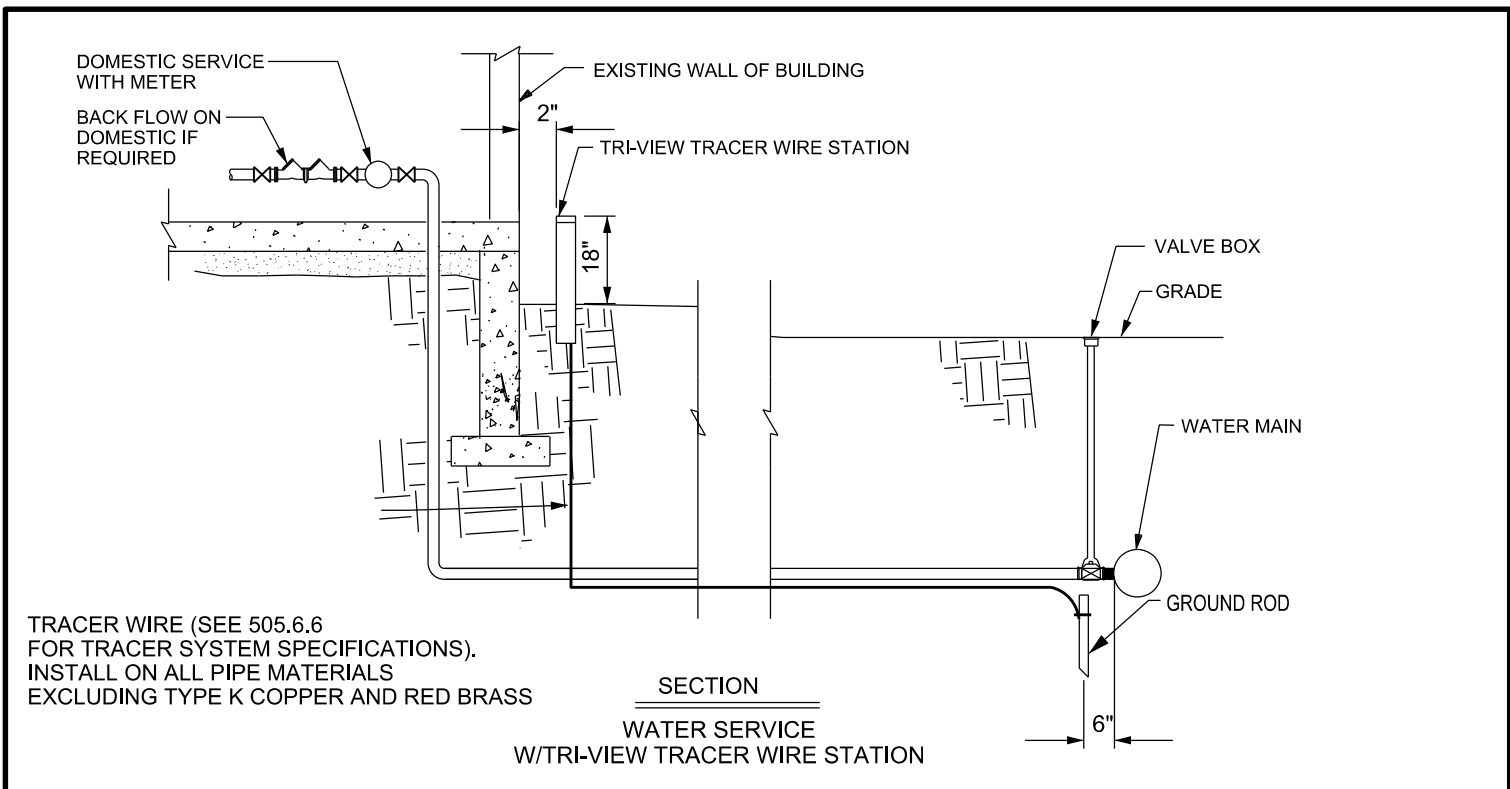


**TRACER WIRE DETAIL**

Not to Scale

TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.

<p><b>Des Moines Water Works</b> Water You Can Trust for Life ENGINEERING DEPARTMENT Des Moines, Iowa</p>		<b>TRACER WIRE DETAIL</b>	
		SCALE: NONE	DATE: 5-10-1996
		DRAWN BY: DLH	APPROVED BY: TPC
		REVISED: 10/05/2022 DLH	



TRACER WIRE MAY BE INSTALLED IN PLASTIC CONDUIT FOR ADDITIONAL PROTECTION FROM POTENTIAL DAMAGE, BUT IT IS NOT REQUIRED.

**Des Moines**  
**Water Works**  
Water You Can Trust for Life  
ENGINEERING DEPARTMENT  
Des Moines, Iowa

TRACER WIRE TERMINATION OPTIONS	
SCALE: NONE	DATE: 2-11-2005
DRAWN BY:	APPROVED BY: TPC
REVISED: 10/05/2022 DLH	

**AGENDA ITEM FORM**

**SUBJECT: Request Authorization for CEO and General Manager to Execute Professional Services Agreement for Saylorville Water Treatment Plant Transmission Improvements Design and Construction Services**

**SUMMARY:**

- In 2017, DMWW teamed with CH2M and HDR to complete the DMWW Long Range Plan 2017 (2017 LRP). The 2017 LRP used population, water use and production statistics from all regional entities to project the necessary source, treatment, transmission, storage, and pumping needs for the Des Moines Metropolitan region through 2040. The 2017 LRP identified nearly 100 key projects to address growth within the central Iowa region. Among the list of projects were enhancements at the Saylorville Water Treatment Plant (SWTP) that included first expanding by 10 MGD, followed by an additional 25 MGD expansion later.
- In February of 2021, DMWW teamed with HDR to review the 2017 LRP. With five additional years of production and demand data for the region, HDR was asked to determine if any of the key projects identified in the 2017 LRP could effectively be delayed. HDR completed the DMWW Long Range Plan Update and Progress Report which concluded that key projects should not be delayed.
- In July of 2021, DMWW teamed with HDR and Black and Veatch to develop the preliminary engineering efforts for the Saylorville Water Treatment Plant Capacity Expansion for the two options described above. The Preliminary Engineering Report for the Saylorville Water Treatment Plant Capacity Expansion was completed subsequently in July of 2022.
- To allow the 10 MGD expansion to occur at SWTP, two transmission elements (DT-20-08 and DT-20-09 as indicated in red on the attached map) were identified to be constructed. Staff prepared a Request for Proposals for completing the design, bidding support, and construction support of these two transmission mains. Five proposals were received on October 27, 2022 and reviewed by staff. Four of the five were selected to be interviewed. The fifth company, Anderson Bogert, was not selected to be interviewed due to the lack of larger diameter water main experience. Staff would consider all firms as viable performers, but there were differences in experience, approach, schedule, and fees (\$1M to \$2M).
- Since this will be considered a regional asset, DMWW staff and newly formed Central Iowa Water Works Technical Advisory Committee (TAC) both participated in evaluating and considering the proposals. DMWW staff initially evaluated the proposals based upon the following categories: strength and qualifications of proposed project team, firm experience, project approach, schedule, and professional service fees. Staff summarized its evaluation of the proposals and shared to the TAC that Snyder & Associates was their preferred selection. After a short review period, six additional members of the TAC responded that Snyder & Associates was their top selection as well. There were no dissenting opinions from the remaining members of the TAC.

**FISCAL IMPACT:**



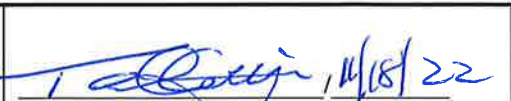
Funds for this project will come from the SWTP West Feeder Phase 3 and Tenny to LP Moon Feeder Connection budgets.

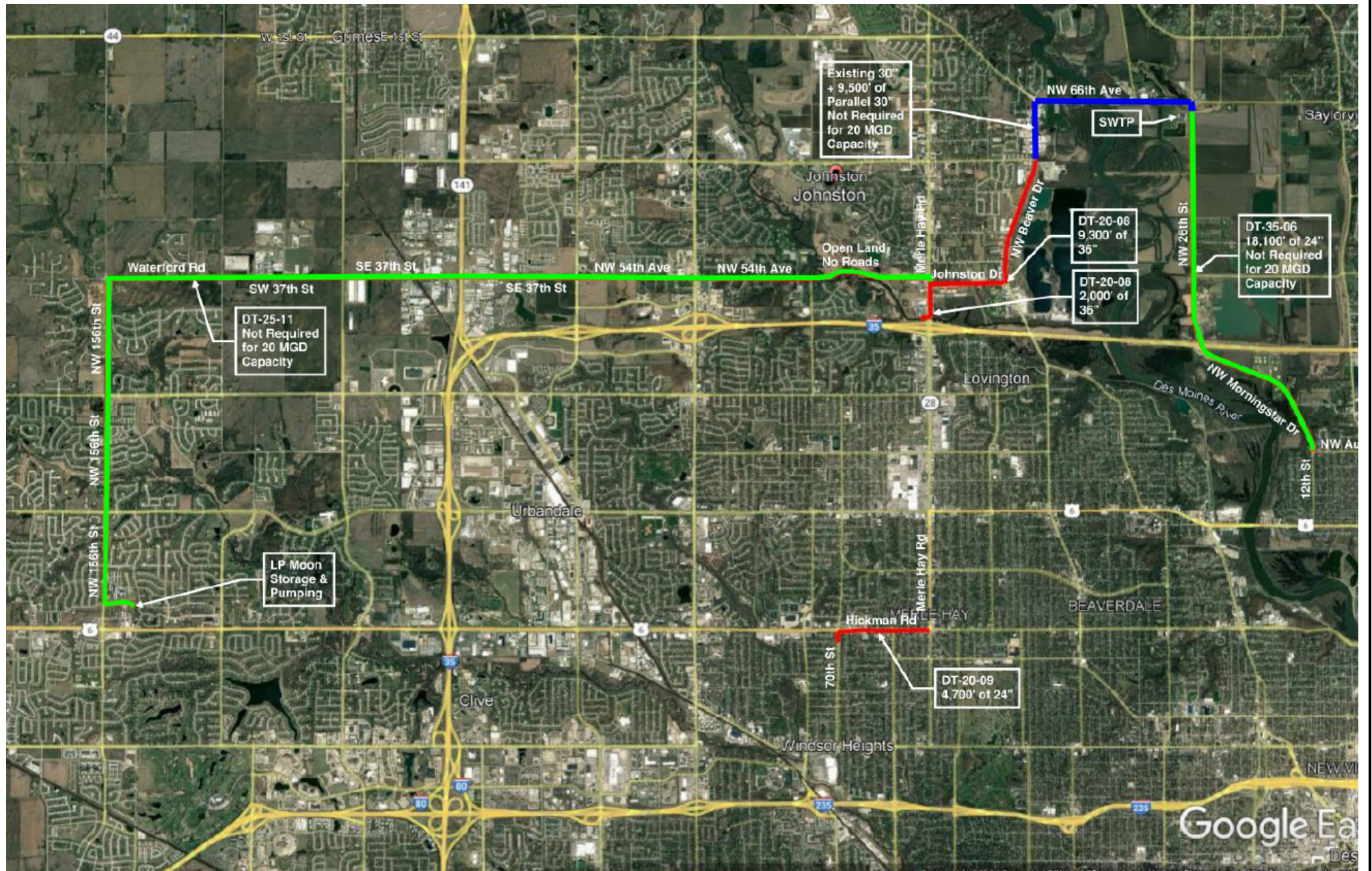
**RECOMMENDED ACTION:**

Authorize the CEO and General Manager to execute a Professional Services Agreement with Snyder & Associates in the amount of \$1,078,400 for design and construction services for the SWTP Transmission Improvements project contingent upon negotiation of terms and conditions that are acceptable to staff and subsequent review by legal counsel.

**BOARD REQUIRED ACTION:**

Motion to authorize the CEO and General Manager to execute a Professional Services Agreement with Snyder & Associates in the amount of \$1,078,400 for design and construction services for the SWTP Transmission Improvements project contingent upon negotiation of terms and conditions that are acceptable to staff and subsequent review by legal counsel.

 Lindsey Wanderscheid, P.E. (date) 11/17/22 Engineering Supervisor	 Michael J. McCurmin, P.E. (date) 11/17/22 Director of Engineering Services	 Ted Corrigan, P.E. (date) 11/18/22 CEO and General Manager
---	---	--







DES MOINES WATER WORKS  
Board of Water Works Trustees

Agenda Item No. III-E  
Meeting Date: November 22, 2022  
Chairperson's Signature  Yes  No

**AGENDA ITEM FORM**

**SUBJECT: Request Authorization to Reimburse Polk County for Water Main Relocations for the NE Broadway Avenue from IA HWY 415 to US HWY 6 Project**

**SUMMARY:**

- As part of Polk County's NE Broadway Avenue from IA HWY 415 to US HWY 6 project, Des Moines Water Works will complete water main alterations and install approximately 12,900 feet of new water main to replace existing water main in conflict with the planned roadway and storm sewer improvements. Approximately 75 percent of the cost of the water main improvements will occur in Polk County and 25 percent in Des Moines.
- The project is focused on converting the roadway from a rural to urban cross section and constructing a recreational trail. The roadway reconstruction requires significant storm sewer improvements to address the modified roadway cross section. The roadway improvements cover a distance of approximately 5.25 miles.
- Construction for this project is anticipated to begin in the winter of 2022, with water main work being completed in the 2022-2024 construction seasons.
- On March 22, 2022, the Board authorized staff to obtain design services through Polk County, in the amount of \$114,300, from Snyder & Associates, Inc., as it relates to the water main work included in this project.
- Based upon the unit price bid for the estimated quantities for this contract, the cost for the water main bid items for this project is \$5,849,126.45. The project has been awarded to Reilly Construction Co., Inc.

**FISCAL IMPACT:**


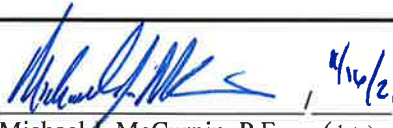

Funds for this project will come from both the 2022-2024 Des Moines and Polk County Water Main Replacement budgets.

**RECOMMENDED ACTION:**

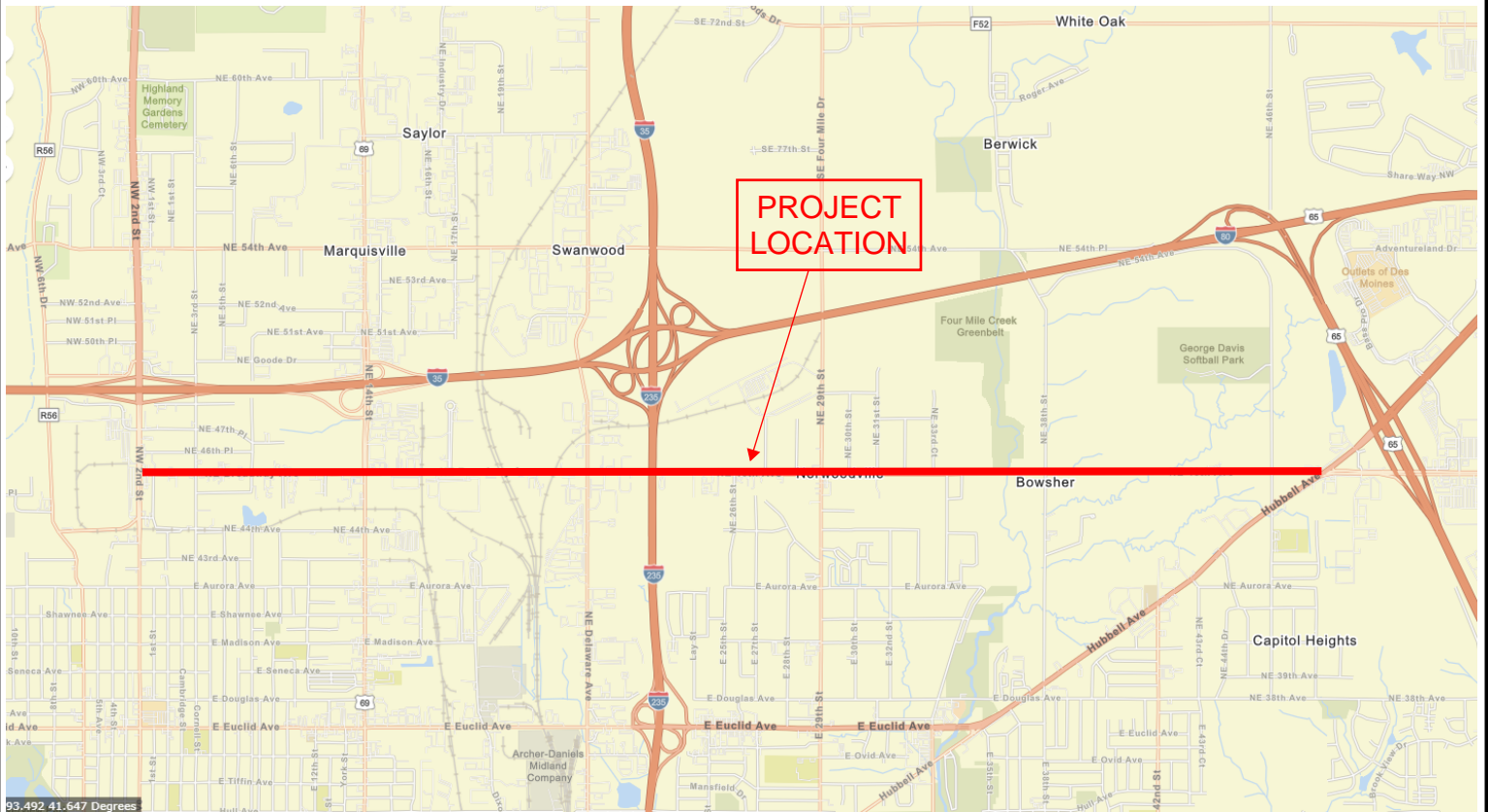
Authorize staff to reimburse Polk County for Water Main Relocations for the NE Broadway Avenue from IA HWY 415 to US HWY 6 project.

**BOARD REQUIRED ACTION:**

Motion to authorize staff to reimburse Polk County for Water Main Relocations for the NE Broadway Avenue from IA HWY 415 to US HWY 6 project.

 Jonathan Mouw, P.E. (date) <u>11/17/2022</u> Project Manager	 Michael J. McCurnin, P.E. (date) <u>11/16/22</u> Director of Engineering Services	 Ted Corrigan, P.E. (date) <u>11/18/22</u> CEO and General Manager
--	--	---

Attachments: site map



93.492 41.647 Degrees



NOT TO SCALE



WATER MAIN RELOCATIONS  
FOR NE BROADWAY AVE.  
FROM IA HWY 415 TO US HWY 6



DES MOINES WATER WORKS  
Board of Water Works Trustees

Agenda Item No. III-F  
Meeting Date: November 22, 2022  
Chairperson's Signature  Yes  No

**AGENDA ITEM FORM**

**SUBJECT: Proposed 2023 Schedules for the Board of Water Works Trustees and Committee Meetings**

**SUMMARY:**

The proposed 2023 schedules for the Board of Water Works Trustees and Committee meetings are attached.

**FISCAL IMPACT:**

No impact to budget.

**RECOMMENDED ACTION:**

Adopt the proposed 2023 schedules for the Board of Water Works Trustees and Committee meetings.

**BOARD REQUIRED ACTION:**

Motion to adopt the proposed 2023 schedules for the Board of Water Works Trustees and Committee meetings.

_____ / _____ (date)	_____ / _____ (date)	 11/18/22 Ted Corrigan, P.E. CEO and General Manager (date)
-------------------------	-------------------------	--

Attachments: Proposed 2023 Board Meeting Schedule, Proposed 2023 Committee Meeting Schedule

**BOARD OF WATER WORKS TRUSTEES  
2023 MEETING SCHEDULE  
3:30 P.M.**

January 24, 2023

February 28, 2023

March 28, 2023

April 25, 2023

May 23, 2023

June 27, 2023

July 25, 2023

August 22, 2023

September 26, 2023

October 24, 2023

November 28, 2023

December 19, 2023  
(Third Tuesday)

**BOARD OF WATER WORKS TRUSTEES  
2023 COMMITTEE MEETING SCHEDULE  
3:30 P.M.**

**Planning Committee  
(First Tuesday)**

January 10 (2<sup>nd</sup> Tuesday)

February 7

March 7

April 4

May 2

June 6

July 11 (2<sup>nd</sup> Tuesday)

August 1

September 5

October 3

November 7

December 5

**Finance & Audit Committee  
(Second Tuesday)**

January 17 (3<sup>rd</sup> Tuesday)

February 14

March 14

April 11

May 9

June 13

July 18 (3<sup>rd</sup> Tuesday)

August 8

September 12

October 10

November 14

December 12



**AGENDA ITEM FORM**

**SUBJECT: Authorize CEO and General Manger to Execute Acceptance of Rezoning Ordinance for the Grounds Maintenance Facility Property and Waiver of Reading Requirement**

**SUMMARY:**

- Des Moines Water Works staff released a Request for Proposals (RFP) in May 2021 to provide full-service design and construction administration services for the Grounds Maintenance Facility (Grounds Shop) including development of the site and building construction. The project design was initially started by OPN Architects but because of staffing changes they were significantly delayed and unable to meet the schedule to complete design.
- In May of 2022 staff presented conceptual plans of the new Grounds Shop site and building to the Planning Committee.
- At its June 2022 meeting, the Board authorized staff to execute a Professional Services Agreement with SVPA Architects Inc., for Architectural and Engineering Services for Grounds Maintenance Facility. They have made significant progress in design and coordination with the City of Des Moines (City). SVPA discovered that the properties needed to be rezoned to meet the new intended use for a DMWW Grounds Shop.
- On October 5, 2022, DMWW staff held a public meeting for rezoning of lots 11-17 of Valley Gardens for the new Grounds Maintenance Facility. A representative from Jasper Winery attended the meeting to better understand the project and how it would impact the view from their property to the east.
- The City is supportive of the rezoning change and future use of this property but added a zoning condition to the agreement, limiting the amount of outdoor storage that a future owner could do to something similar in scale to our proposed use. The City wants to ensure that outdoor storage is always the secondary use of this property as we are proposing.
- Approval of a rezoning ordinance requires three ordinance readings by the Des Moines City Council (three council meetings) unless an ordinance reading waiver is requested by the applicant and accepted by the Council.
- Once this agreement is signed by DMWW, the City will present the agreement and ordinance reading waiver at the December 12, 2022, City Council meeting for final consideration and acceptance of the rezoning.
- SPVA Architects Inc., is completing the final design of this site and we anticipate requesting permission to bid this project in the first quarter of 2023.

**FISCAL IMPACT:**

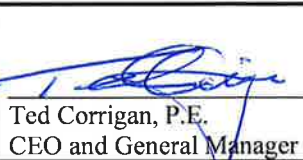
There is no fiscal impact associated with this item.

**RECOMMENDED ACTION:**

Authorize the CEO and General Manager to execute the Acceptance of Rezoning Ordinance and Reading Waiver documents related to the Grounds Maintenance Facility property.

**BOARD REQUIRED ACTION:**

Motion to authorize the CEO and General Manager to execute the Acceptance of Rezoning Ordinance and Reading Waiver documents related to the Grounds Maintenance Facility property.

 Donald K. Staley, P.E. Project Manager	11-18-22 (date)	 Kyle A. Danley, P.E. Chief Operating Officer	11-18-22 (date)	 Ted Corrigan, P.E. CEO and General Manager	11/18/22 (date)
--	--------------------	--	--------------------	--	--------------------

Attachments: Acceptance of Rezoning Ordinance Document and Waiver

---

Prepared by: Lisa A. Wieland, Assistant City Attorney, 400 Robert D. Ray Drive, Des Moines, IA 50309  
515-283-4124

Return Address: City Clerk - City Hall, 400 Robert Ray Dr., Des Moines, IA 50309

Taxpayer: No change

Title of Document: Acceptance of Rezoning Ordinance

Grantor's Name: City of Des Moines and Board of Water Works Trustees (Titleholder)

Grantee's Name: City of Des Moines, Iowa

Legal Description: DESCRIPTION FOR AREA OF EX TO BECOME I1:  
(RETRACEMENT SURVEY BOOK 17684, PAGE 706)  
LOTS 11-17 IN VALLEY GARDENS, AN OFFICIAL PLAT, NOW INCLUDED IN AND  
FORMING, A PART OF THE CITY OF DES MOINES, POLK COUNTY, IOWA. (*HEREIN*  
*"PROPERTY"*).

---

## **ACCEPTANCE OF REZONING ORDINANCE**

The undersigned hereby state, warrant and agree as follows:

1. That the City of Des Moines and Board of Water Works Trustees are the titleholder of the Property locally known as 2508 George Parkway, Des Moines, Iowa, and legally described above.

2. That in the event the City of Des Moines, Iowa, acts to rezone the Property from a "EX" Mixed Use District to Limited "I1" Industrial District classification, I agree and accept the imposition of the following conditions to run with the land and be binding upon all successors, heirs and assigns as part of the ordinance so rezoning the Property:

1. Use of the property shall be limited to the following:

A. Any use as permitted and limited in the "EX" District.

B. Outdoor storage accessory to a use that is permitted in the "EX" District, so long as it is placed and screened to the satisfaction of the Planning Administrator.





of Water Works Trustees.

\_\_\_\_\_  
Notary Public in and for the State of \_\_\_\_\_

**DES MOINES WATER WORKS**

Board of Water Works Trustees



2201 George Flagg Parkway | Des Moines, Iowa 50321-1190 | (515) 283-8700 | [www.dmww.com](http://www.dmww.com)

November 22, 2022

Mayor and City Council  
City of Des Moines  
400 Robert D. Ray Drive  
Des Moines, IA 50309

RE: Proposed conditional rezoning of property in the vicinity of 2508 George Flagg Parkway

To the Mayor and City of Des Moines City Council:

Please accept this request to waive the three required readings of the ordinance to rezone the above referenced real property.

Thank you.

Sincerely,

\_\_\_\_\_  
Signature

By: Ted Corrigan

Its: CEO and General Manager



**AGENDA ITEM FORM**

**SUBJECT: Information Items**

**SUMMARY:**

<p>A. Board Committee Reports</p> <ul style="list-style-type: none"> <li>• Planning Committee</li> <li>• Finance and Audit Committee</li> <li>• Stowe Foundation</li> <li>• Greater Des Moines Botanical Garden Board</li> <li>• Des Moines Water Works Park Foundation Board</li> </ul> <p>B. CEO and General Manager's Comments</p> <p>C. Contract Status and Professional Services Agreements</p>
--

**FISCAL IMPACT:**


No impact to the budget.
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**RECOMMENDED ACTION:**

For review and discussion.
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**BOARD REQUIRED ACTION:**

Review and discussion.
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/ (date)	/ (date)	 Ted Corrigan, P.E. CEO and General Manager
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Attachments: DMWWPF Executive Summary, Board Minutes, September 2022 Financials, Events Calendar; Contract Status and Professional Services Agreements Spreadsheets



16 November 2022

**Updates from the Des Moines Water Works Park Foundation**

**The Campaign/Development:**

We've received a draft 28E agreement from city and our counsel is now reviewing. We are also continuing to negotiate what share of the city's project should be forgiven. Sponsorship's and additional revenue streams are being built out for the 2023 season.

**Park Construction**

The first 10 Memorial Benches have been installed throughout the "Big Splash" area. 7 have been sold



and three are still available.

**Programming**

Programming is complete and the last of the Local Bands, Brews and Bikes concerts as well as the Beer Garden have been shut down for the season. Faculty Lounge, NOLA Jazz Band and a polks band were some of the last performers. However the park has stayed busy with regular walkers and use of the natural play area, etc. Shirley, pictured below is a daily pole walker and often stops to share how much she loves the improvements to the park and especially the new benches!





**November Meeting Minutes attached along with September Financials**

**DES MOINES WATER WORKS PARK FOUNDATION**  
**Board of Directors Meeting**  
**Friday, November 11, 2022 – Board Meeting - 12:00 - 1:30**  
**Minutes**



***DMWWPF Vision:*** *Water Works Park is the place where nature and people flourish.*

***DMWWPF Mission:*** *Foster stewardship for clean water and nature through unique learning opportunities, cultural experiences, and outdoor adventures.*

**BOD Members in Person Attendance:** Matt Van Loon, Drew Manatt, Crystal Franke, Chris Lightfoot, Jason Stone, Amy Jennings

**BOD Members Virtual:** Dara Madigan, Jenny Herrera, Ardis Kelley, Ashley Aust, Raul Cunarro, Andrea Boulton

**Guests/Staff:** Sam Carrell – DMWWPF; Teri TeBockhorst - DMWWPF; Mike McCurnin – DMWW

**I. Call to Order & Welcome/Affirm Agenda – Matt Van Loon**

**II. Approve minutes – Matt Van Loon**

**Motion to Approve October BOD minutes:** Ardis Kelley

**Second:** Ashley Aust

**Motion Passes**

**III. Presidents Report – Matt Van Loon**

- Annual Meeting/Strategic Planning  
Ryan Companies office for this year's meeting – moved out a week  
(December 16 at 1:30pm)  
January meeting will be strategic planning as well.

**IV. Financial Report – Ardis Kelley**

- September Financials  
Cash was down because of more expenses than income. Drop in investment balance. Net of negative \$18,000. Expecting approximately \$45k in revenue in the next couple of months for programming.

**Motion to Accept September Financials:** Ashley Aust

**Second:** Jason Stone

**Motion Passes**

**V. BOD Discussion Items**

- BOD Appointments/Officer Slate - Update – Ashley Aust

Notes:

Meetings being scheduled with prospective board members.

Started work on Executive Committee.

Hoping to have two board members to present next month.

- Contract extension for Teri – Matt Van Loon/Jason Stone

Notes:

A lot of opportunities ahead of us with Teri on board through Q1 of next year, which can be reviewed again at that time. Need to keep the momentum going.

- Development Plan – Teri Wood TeBockhorst

Notes:

Need to have FUN with FUNdraining.

Development – process of developing relationship with givers.

Fundraising – just the act of getting money.

Our job is to find out why a donor may want to give.

Stewardship – create meaningful return on philanthropic giving. Make sure they are thanked.

Develop a plan and an acquisition channel (major donations, grants, planned giving, corporate giving, etc.). Assign responsibilities. Timeline and benchmarks.

Fundraising plan. Well/Better analysis.

Understand our audience.

January – do a deeper dive for strategy and growth.

Board members need to make our giving. 100% participation is helpful. Lots of ways to give.

- RFP venue management response – Teri Wood TeBockhorst

Notes:

Requested an RFP for event management. Sent to 31 total vendors. 21 were event management companies, 6 associations.

Only one actual full RFP response from People's (Tom Zmolek) – he manages our events.

Separately - SA Productions is Sam Summers and Amadeo Rossi (also known as First Fleet), they do some of the big events for promotion of them.

It's not exclusive contract, other promoters can come in as well. Meeting with them on Tuesday to see what a contract looks like going forward. We will also meet with four other vendors who have interest in taking on additional work we may have.

Shows need to be above 2500 in attendance. Also moving toward a minimum number of shows in the park.

## **VI. Committee Reports/Discussion Items (as necessary)**

- Programming – Andrea Boulton/Bethany Wilcoxon

Notes: Nothing new to report.

- Marketing – Chris Lightfoot

Notes: Get programming and marketing committees together so they work together on items.

Newsletter – new format and developing content. Make sure we're letting people know everything that's been done and coming up.

Social Media – how do we keep engaging people in the slower months (i.e. winter). Ways to organically engage with people.

Website – landing page specific to donations? Tell more of a story about the phases of the park. Add a donation link or button.

- Development – Teri Wood TeBockhorst  
Notes: Nothing new to report.
- Contracting Amphitheater – Chad Rasmussen
- Stowe Memorial/Lakeside Lab update/Intern Presentations – Andrea Boulton, Amy Jennings
- Notes: Stowe Memorial – Commissioned Jordan Webber, a local artist, for a design of the memorial. It would be north of the trail near the connector. Looking to bring some of the water piping up out of the ground to show how that works underground.  
Lakeside Lab – creating a similar organization in Water Works Park. The stakeholders met a few weeks ago. Looked closer at what the interns gathered this summer from all the players in central Iowa. Currently identifying the scope and next steps. The foundation should be able to play a role in this with the education it would bring.
- Connector Repayment Agreement update – Jason Stone/Matt Van Loon  
Notes: The city legal dept was going back and forth on whether we need a new agreement or amended agreement. Waiting to hear back – going amendment route.
- DMWW – Mike McCurnin  
Drought persists  
Joel Aschbrenner has left the DMWW board and replaced by Alec Davis who we worked with on Beer Garden.

## **VII. Executive Director Report – Sam Carrell**

- Park improvements – Benches & Rings  
Have 5 plaques to put on benches. We have three more that are almost sold. Two more to go. Cost is \$3000 per bench.
- Draft Budget
- Bier Garten  
Wrapping up for the season. Meeting with Alec and Sam to see if this can be used during the concerts next season.
- 2023 Season – what is percolating  
Synergy Center – redone and we have a new office now.  
Calendar has many items on the list.  
Jasper Winery – had biggest season ever this last year. Had some of their wines at the biergarten.

## **VIII. Announcements**



## **IX. Adjourn**

**Motion to Adjourn:** Jason Stone

**Second:** Amy Jennings

### **Upcoming Events:**

**December Annual BOD Meeting** – Friday, December 16<sup>th</sup> - Ryan Companies, 1:30 – 3:30 pm

### ***DMWWPF Values:***

- 1. Conservation: We are a model of urban conservation that protects and promotes our natural environment through engaging amenities and activities, with an intentional focus on clean water.*
- 2. Well-being: We provide opportunities for park lovers of any age to invigorate their bodies and quiet their minds through recreation, play, and connection to nature.*
- 3. Collaboration: We nurture and grow strategic partnerships with other organizations and community attractions to maximize our collective impact.*
- 4. Inclusion: We create a place that is welcoming to all, encouraging and growing understanding, and connection to strengthen our community. We are everyone's park.*
- 5. Amazement: We leverage 1500 acres of urban greenspace to create unique experiences that delight and amaze human visitors, while respecting and enhancing the park's ecosystem.*

Des Moines Water Works Park Foundation

<i>Comparative Statements of Financial Position as of</i>	<u>September 30, 2022</u>	<u>August 31, 2022</u>	<u>December 31, 2021</u>
<b>ASSETS</b>			
Cash and Cash Equivalents	\$ 413,569.86	\$ 435,233.85	\$ 163,886.67
Investments - Endow Iowa	50,095.31	51,714.35	59,004.60
Pledges Receivable	650,827.40	650,827.40	933,327.40
Prepaid Expenses	1,759.30	2,010.64	766.39
<b>Total Assets</b>	<u>\$ 1,116,251.87</u>	<u>\$ 1,139,786.24</u>	<u>\$ 1,156,985.06</u>
<b>LIABILITIES</b>			
Accounts Payable	\$ 200.00	\$ 5,041.76	\$ 9,003.24
Accrued Expenses	1,780,212.29	1,780,212.29	1,787,912.29
Loan Payable - Line of Credit	699,893.72	699,893.72	703,745.80
<b>Total Liabilities</b>	<u>\$ 2,480,306.01</u>	<u>\$ 2,485,147.77</u>	<u>\$ 2,500,661.33</u>
<b>NET ASSETS</b>			
Net Assets without donor restrictions:			
Available to Spend	\$ 927,449.09	\$ 944,522.95	\$ 1,037,421.32
Net Assets with donor restrictions:			
Endow Iowa	50,095.31	51,714.35	59,004.60
Karras Kaul Sculpture	10,957.21	10,957.21	10,957.21
Park Improvement/Fleur Trail	(2,352,555.75)	(2,352,556.04)	(2,451,059.40)
<b>Total Net Assets</b>	<u>\$ (1,364,054.14)</u>	<u>\$ (1,345,361.53)</u>	<u>\$ (1,343,676.27)</u>
<b>Total Liabilities and Net Assets</b>	<u>\$ 1,116,251.87</u>	<u>\$ 1,139,786.24</u>	<u>\$ 1,156,985.06</u>

Des Moines Water Works Park Foundation  
Consolidated Statement of Financial Activity and Change in Net Assets  
For the nine months ending September 30, 2022

	September-22					FISCAL YEAR TO DATE			Annual Budget
	Operating	Development	Programming	Capital	Total	Actual	Budget	Budget Variances	2022
<b>REVENUES AND OTHER SUPPORT</b>									
Corporate & Foundation Giving	\$ -	\$ 2,500.00	\$ -	\$ -	\$ 2,500.00	\$ 150,021.46	\$ -	\$ 150,021.46	\$ -
Individual Gifts	-	515.00	-	-	515.00	10,035.73	-	10,035.73	-
Park Sponsorship	-	-	-	-	-	-	-	-	75,000.00
Special Event Income	-	-	-	-	-	14,555.00	15,000.00	(445.00)	15,000.00
State Grant Income	-	-	-	-	-	-	-	-	25,000.00
User/Vendor Revenue	-	-	-	-	-	-	336,250.00	(336,250.00)	442,670.00
Investment Income, net of fees	(1,028.72)	-	-	0.29	(1,028.43)	(7,979.30)	-	(7,979.30)	-
<b>Total Revenues and Other Support</b>	<b>\$ (1,028.72)</b>	<b>\$ 3,015.00</b>	<b>\$ -</b>	<b>\$ 0.29</b>	<b>\$ 1,986.57</b>	<b>\$ 166,632.89</b>	<b>\$ 351,250.00</b>	<b>\$ (184,617.11)</b>	<b>\$ 557,670.00</b>
<b>EXPENSES</b>									
Accounting/Audit	\$ 850.00	\$ -	\$ -	\$ -	\$ 850.00	\$ 7,650.00	\$ 8,316.00	\$ (666.00)	\$ 11,088.00
Amphitheater Programming	-	-	4,228.40	-	4,228.40	40,089.34	115,525.00	(75,435.66)	\$ 125,000.00
Consulting Services	-	-	-	-	-	8,800.00	-	8,800.00	-
Community Programming	-	-	2,550.00	-	2,550.00	8,717.71	17,000.00	8,717.71	19,850.00
Development	-	-	-	-	-	-	14,000.00	(14,000.00)	14,750.00
Food Expense	-	-	68.72	-	68.72	405.03	-	405.03	-
General Office	707.23	15.48	-	-	722.71	4,613.74	4,122.00	491.74	5,496.00
Governance	72.12	-	-	-	72.12	-	-	-	2,650.00
Information Technology	28.72	-	-	-	28.72	1,549.52	-	1,549.52	-
Interest Expense	-	-	-	-	-	19,289.29	-	19,289.29	-
Marketing	-	-	74.90	-	74.90	666.59	26,142.00	(25,475.41)	26,352.00
Misc. Expense	-	-	-	-	-	3.00	350.00	(347.00)	500.00
Office Equipment	-	-	-	-	-	53.49	-	53.49	-
Park Maintenance	-	-	-	-	-	-	22,500.00	(22,500.00)	45,000.00
Professional Services	365.00	6,400.00	-	-	6,765.00	45,371.96	-	19,565.00	-
Rent Expense	130.00	-	-	-	130.00	1,170.00	-	1,170.00	-
Staffing & Administrative Costs	4,770.00	-	-	-	4,770.00	42,930.00	77,400.00	(34,470.00)	103,200.00
Supplies Expense	-	-	8.41	-	8.41	116.64	-	116.64	-
Utilities	-	-	410.20	-	410.20	5,584.45	7,470.00	(1,885.55)	9,960.00
<b>Total Expenses</b>	<b>\$ 6,923.07</b>	<b>\$ 6,415.48</b>	<b>\$ 7,271.91</b>	<b>\$ -</b>	<b>\$ 20,679.18</b>	<b>\$ 187,010.76</b>	<b>\$ 292,825.00</b>	<b>\$ (115,079.72)</b>	<b>\$ 363,846.00</b>
<b>Change in Net Assets</b>	<b>\$ (7,951.79)</b>	<b>\$ (3,400.48)</b>	<b>\$ (7,271.91)</b>	<b>\$ 0.29</b>	<b>\$ (18,692.61)</b>	<b>\$ (20,377.87)</b>	<b>\$ 58,425.00</b>	<b>\$ (69,537.39)</b>	<b>\$ 193,824.00</b>
<b>Net Assets, Beginning of Year</b>						<b>(1,343,676.27)</b>			
<b>Net Assets, End of Year</b>						<b>\$ (1,364,054.14)</b>			

2022	Date	Event
October	1-2	Iowa Coursing Hounds
	5	Bread & Puppet
	8-9	A & B cancer elevate festival
	8	Private gazebo wedding
	8	Private shelter rental
	9	Blazing 5k race
	13	Private shelter rental
	14-16	DSM marathon
	22-23	Hydrocephalus walk
	29-30	Coursing Hounds of Iowa
November	19	Iowa Coursing Association

Several plot tours June July and August  
 Biergarten every Thursday-Sunday at amphitheater

KEY
Sport/Fitness Event
DMWWPF Event
Wedding/shelter
Misc. (car shows, political events, festivals)

## COMPETITIVE BIDS CONTRACT STATUS FOR NOVEMBER 2022

NW 26th Street Booster Station	Punchlist items are being completed.	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	Henkel Construction Company 8/14/2020 \$1,533,000.00 \$69,618.46 \$1,602,618.46 \$1,491,106.08 Dec-22
Nitrate Removal Facility Crawlspace Renovation	Construction is substantially complete. Coating and punch list items remain.	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	Henkel Construction Company 6/1/2021 \$1,312,000.00 \$310,614.39 \$1,622,614.39 \$1,303,690.16 Dec-22
2021 Well Rehabilitation	SWTP Well #2 is to be done in place of SWTP Well #1. Construction in progress. Cleaning of second well being coordinated with DMWW operational needs.	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	Layne Christensen Company, Inc. 2/14/2022 \$1,344,820.00 \$723,125.00 \$2,067,945.00 \$478,876.00 Dec-23
Joint Eastside Booster Station Hypochlorite Feed System	Construction in progress.	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	C.L. Carroll Co., Inc. 12/6/2021 \$202,000.00 \$0.00 \$202,000.00 \$163,500.00 Dec-22
L. P. Moon Pumping Station - Pump No. 8	Contractor has resumed work with arrival of Owner-Provided equipment.	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	The Waldinger Corporation pending \$123,390.00 \$1,710.00 \$125,100.00 \$22,874.07 Dec-22
Norwalk Highway G14 Meter Vault	Construction in progress. Supply chain issues with electric and communication equipment.	Contractor Notice to Proceed Original Contract Sum Net Change by Change Orders Contract Sum to Date Total Completed to Date Anticipated Completion Date	Rognes Corp. 4/6/2022 \$536,000.00 \$2,853.00 \$538,853.00 \$474,392.65 Dec-22

Item IV-C

Fleur Drive Operations Center Stormwater System Improvements - Phase 2	Construction in progress.	Contractor	WRH, Inc.
		Notice to Proceed	3/28/2022
		Original Contract Sum	\$1,179,900.00
		Net Change by Change Orders	\$13,472.56
		Contract Sum to Date	\$1,193,372.56
		Total Completed to Date	\$642,044.41
		Anticipated Completion Date	Jun-23
2022 Tank Painting - Tenny Standpipe and Runnells Water Tower	Construction in progress.	Contractor	G & L Tank Sandblasting & Coatings, LLC
		Notice to Proceed	7/29/2022
		Original Contract Sum	\$860,000.00
		Net Change by Change Orders	\$46,500.00
		Contract Sum to Date	\$906,500.00
		Total Completed to Date	\$379,500.00
		Anticipated Completion Date	Dec-22
2022 Water Main Replacement	Construction in progress. Work on Water Street remains.	Contractor	J & K Contracting, LLC
		Notice to Proceed	9/6/2022
		Original Contract Sum	\$989,145.00
		Net Change by Change Orders	\$395,975.00
		Contract Sum to Date	\$1,385,120.00
		Total Completed to Date	\$724,221.50
		Anticipated Completion Date	Dec-22
Gallery Valve Chamber Structures Reconstruction - Phase 2	Construction in progress. Structures and tops are all complete. Final railings and small miscellaneous items remain.	Contractor	Nate Todd Construction, LLC
		Notice to Proceed	7/11/2022
		Original Contract Sum	\$498,750.00
		Net Change by Change Orders	\$0.00
		Contract Sum to Date	\$498,750.00
		Total Completed to Date	\$433,000.00
		Anticipated Completion Date	Dec-22
2022 Des Moines Water Main Replacement - Contract 1	Construction in progress.	Contractor	Synergy Contracting, LLC
		Notice to Proceed	7/29/2022
		Original Contract Sum	\$1,486,413.00
		Net Change by Change Orders	-\$419.50
		Contract Sum to Date	\$1,485,993.50
		Total Completed to Date	\$829,750.73
		Anticipated Completion Date	Dec-22

## COMPETITIVE QUOTATIONS CONTRACT STATUS FOR NOVEMBER 2022

Contractor  
Date of Contract  
Notice to Proceed  
Original Contract Sum  
Net Change by Change Orders  
Contract Sum to Date  
Total Completed to Date  
Anticipated Completion Date

**PROFESSIONAL SERVICES AGREEMENTS**

<b>No.</b>	<b>Service</b>	<b>Selected Vendor</b>	<b>Date</b>	<b>Amount</b>	<b>Comments</b>
1	Communications, Public Relations - Melissa Walker	MW Media Consultants, LLC	Q4 2020	\$4,000/month	COMPLETE
2	Legislative Advocacy	Advocacy Strategies	2020-2021	\$10,000/qtr	COMPLETE
3	Updates to Regional Cost Model with Retail Rate Impacts	FCS Group	1/1/2021	\$33,200	
4	2017 Long Range Plan Timeline Review	HDR Engineering	1/7/2021	\$18,000	COMPLETE
5	Social Media Consultant	Megan McDowell	2/15/2021	\$909.09/month	Independent contractor
6	Easement Exhibit for NW 26th Street Booster Station	JEO Consulting Group	2/8/2021	\$1,200	COMPLETE
7	Inspection Services for Pleasant Hill Tower painting	Dixon Engineering	2/11/2021	\$45,420	COMPLETE
8	Engineering Services - Drafting water main relocations for City of Des Moines Hamilton Drain - Phase 2	Kirkham Michael	2/25/2021	\$10,000	COMPLETE
9	Railroad Right-Of-Way Assistance	VAA Engineering	4/9/2021	\$5,000	COMPLETE
10	Drafting Assitance for Bondurant Meter Pit	Veenstra & Kimm, Inc.	4/9/2021	\$3,000	COMPLETE
11	Electrical Consultation: LP Moon Pump 8	Stanley Consultants	5/6/2021	\$9,500	COMPLETE
12	Design and construction services: Joint Eastside Booster Station Hypochlorite Feed System	Veenstra & Kimm, Inc.	6/8/2021	\$22,900	
13	Design and construction services: Operation Center Stormwater Pump Station Improvements	Veenstra & Kimm, Inc.	6/8/2021	\$50,150	
14	Roof Membrane Relaxation Design	WTI	7/2/2021	\$3,000	
15	Design and preconstruction for DSM River Intake Roofing and Structural Modification	Accord Architecture	7/2/2021	\$9,280	COMPLETE
16	Maffitt East Feeder Main Control Valve Design	Stanley Consultants	8/6/2021	\$46,920	
17	Engineering & Drafting assistance - 2021 DM WMR #4	JEO Consulting Group	8/16/2021	\$20,270	COMPLETE
18	Government Relations Services - October 1, 2021 - September 30, 2022	Woodberry Associates, LLC	9/22/2021	\$5,000/month	COMPLETE
19	Engineering Services - Drafting water main relocations for City of Des Moines SE Connector SE 30th to US Hwy 65	Kirkham Michael	9/24/2021	\$10,000	
20	Legislative Advocacy - October 1, 2021 - December 31, 2022	Advocacy Strategies	9/24/2021	\$53,125	\$10,625/qtr
21	Survey Services for 2022 WMR - SW 10th Place	Snyder & Associates	11/9/2021	\$24,600	COMPLETE
22	Survey Services for 2022 WMR - SW 11th Street	Snyder & Associates	11/9/2021	\$24,600	COMPLETE
23	Specs and Contract Documents for 2022 Tank Painting - Tenny	Dixon Engineering	11/24/2021	\$5,125	COMPLETE
24	Drafting and Design for City of DM 2nd Ave. Improvements Project - University Ave to 2nd Ave Bridge	Bolton & Menk	11/22/2021	\$39,510	
25	Survey Services for 2022 WMR - Luster Ln & SW 9th St	McClure Engineering	12/1/2021	\$19,325	COMPLETE
26	Specs and Contract Documents for 2022 Tank Painting - Runnells	Dixon Engineering	12/28/2021	\$6,625	COMPLETE
27	Communications, Public Relations - Melissa Walker	MW Media Consultants, LLC	1/1/2022	\$4,800/month	
28	Consulting Services for Replacement of Financial Mgmt. Software	Adbo Financial Solution	2/11/2022	\$98,400	
29	2022 Voice of the Customer Survey/Research	SPPG+Essman Research	3/21/2022	\$40,000	
30	Survey Services for 2022 Des Moines WMR - Contract 2	Snyder & Associates	3/22/2022	\$37,953	
31	Diversity and Inclusion Plan	Keen Independent Research	4/15/2022	\$49,985	
32	Inspection Services for Tenny Standpipe painting	KLM Engineering, Inc.	5/12/2022	\$60,295	
33	Engineering Services - Drafting water main relocations for City of Des Moines Hamilton Drain - Phase 3	Kirkham Michael	6/15/2022	\$10,000	
34	Engineering Svcs for City of DM E Court Ave from DM River to E14th St	Shive-Hattery	6/23/2022	\$90,500	
35	Water Main Design for Windsor Heights 73rd St. Phase 1 Improvements	Bolten & Menk, Inc.	7/14/2022	\$30,000	
36	Development of Drafting Standards for Engineering Department	DTM Solutions	8/30/20022	\$13,200	
37	MicroStation Connect and OpenRoads Designer Training	DTM Solutions	8/30/2022	\$3,800	
38	Design, Bid, and Construction Administration Services - MWTP HVAC	Shive-Hattery	9/26/2022	\$15,750	
39	Engineering Services - Closed Loop Cooling Projects Planning Study	IMEG	9/27/2022	\$23,600	
40	Engineering Services - Vine Street Water Main Improvements	ISG, Inc.	11/4/2022	\$21,600	
41	FDWTP 5KV Study	KFI	11/16/2022	\$38,100	
42	DM River and NW Beaver Drive Geotechnical Exploration Services	Allender Butzke Engineers, Inc.	11/16/2022	\$15,000	