

**Harris Park Metropolitan District Regular Meeting.  
August 12, 2023 Agenda  
2154 Shelton Drive Bailey, CO 80421 @ 9am.**

*If audience members engage in video recordings of the meeting, the members must be behind the kitchen counter. If audience members engage in audio recordings of the meeting, the recorder must be placed on the table in front of them, for other audience members to see.*

*Personal conflicts and grievances between community members are to be addressed on personal time and not at Harris Park Board meetings. Sarcasm between community members at board meetings will not be tolerated. Board meetings are for community business only.*

**AGENDA**

- I. Call to Order, Pledge of Allegiance, Moment of Silence, and Declaration of Quorum.
- II. Consider Approval with Changes to the August 12, 2023 Agenda.
- III. Consider Approval with Changes to the July 8, 2023 Meeting Mins.
- IV. Consider Approval with Changes to the July 24, 2023 Meeting Mins.
- V. Consider Approval of paying bills.
- VI. Guests.
  - A. Pat.
- VII. Water and Sanitation.
  - A. Meter Readings.
    - 1. June.
      - a) Hydrant.
        - (1) CC Hydrant: 1440969.4
        - (2) Last month: 1438609.7
        - (3) Usage: 2359.7
      - b) Well.
        - (1) CC Well: 1017456.5
        - (2) Last month: 1017213.6
        - (3) Usage: 242.9
      - c) UV: 251
      - d) Lake 1: 14
      - e) Lake 2: 16.8
    - B. Info.
- VIII. Committees.
  - A. Dam Committee.
    - 1. Update on stiling wall work.
    - 2. Change order for Gold's.
- IX. Financial.
  - A. Reports.
- X. Legal.
- XI. Old business.
  - A. Hydrant lock.
  - B. Credit Card.
  - C. Volunteer form.
    - 1. Updated and on website.
  - D. Code of conduct for events (in reference to the agreement when Beth's legal reimbursement was approved).
  - E. Reimbursement policy.
  - F. Hiring a cleaner for the CC.
  - G. Peace officer for events.
  - H.
- XII. New business.

- A. Info from PC Assessor.
  - B. Where cash transactions go including additional funds being donated and where the money has gone.
  - C. Protocol for fishing badge payments and how they are recorded.
  - D. Credit card transactions on websites.
  - E. Read only users for QB (board members).
  - F. Change meeting dates for 2024 to the 3rd Saturday of the month.
  - G. Budget 2024.
  - H. Appoint budget officer 2024.
  - I. USFS Prescribed Fire Public Meeting at CC.
  - J. Septic Inspection costs.
  - K. Hiring to trim, weed wack, and mow the playground area.
  - L. Playground sign.
  - M. USB drive for all directors.
- XIII. Public Comment.
- XIV. Adjournment.

**NEXT REGULAR BOARD MEETING WILL BE HELD ON 9/9/23 AT 9:00 A.M.**

Harris Park Metropolitan District Community Center, 2154 Shelton Drive, Bailey, Colorado 80421

**August 12, 2023 Meeting Mins**

- XV. Call to Order, Pledge of Allegiance, Moment of Silence, and Declaration of Quorum (9 am).
- XVI. Attending

- A. Board

Steve M	Monique B	Mercedes S
Beth (Z)	Chris	

- B. Community.

Jean	George	Steve E	Daria E	David B	Shawn
Danita (z)	Connie	Brian	Mary	Pat	Mark S (z)
Thereasa	Micheal	Don			

- XVII. Consider Approval with Changes to the August 12, 2023 Agenda.

- A. Changes.

- 1. Mercedes would like to add Pat to the guest section.
    - 2. Move: appoint budget officer to new business H.
    - 3. Add Change to Gold's contract under Dam committee.

- B. Motion to approve the August 12, 2023 Agenda with changes.

- 1. MS motion.
    - 2. CM seconded.
    - 3. Approved.

- XVIII. Consider Approval with Changes to the July 8, 2023 Meeting Mins.

- A. Changes.

- B. Motion to approve the July 8, 2023 Meeting Mins with changes.

- 1. CM motion.
    - 2. MB seconded.
    - 3. Approved.

- XIX. Consider Approval with Changes to the July 24, 2023 Meeting Mins.

- A. Changes.

- B. Motion to approve the July 24, 2023 Meeting Mins. with changes.

- 1. CM motion.
    - 2. MB seconded.
    - 3. Approved.

- XX. Consider Approval of paying bills.

- A. Questions.

- B. Motion to approve paying the bills minus Gold's concrete.

- 1. MS motion.
    - 2. MB seconded.
    - 3. Approved.

- XXI. Guests.

- A. Pat Parker

- 1. Has a layout of a treatment option that could be done in the CC. It would not treat the hydrant unless we re-route back to the hydrant. You can also add a hydrant attached to the CC and create a new fill area for the residents that would be open to the public

2. Discussion about putting the system in the CC and the lower cost associated with it.
3. Pat brought a packet with a couple options outlined within it. The estimate just includes materials and not the labor. It is just the treatment equipment. The most simplistic would be to attach to the line already existing in the storage tank. The state likes storage tanks because of the contact time with Chlorine. If you put a new fill station up on the building, you could padlock it. The hydrant could then be designated as the raw water sample point. That would save having to put a tap in. The hydrant would have to be locked if you did become a public water station.
4. Mercedes what would be the monthly/quarterly cost for having a public system. Pat said probably about \$100 a year for testing (every 3 months and 1 a year nitrate sample). If the nitrate is too high, they could push you to do it quarterly.
5. Discussion about the board already taking samples and getting the water tested.
6. MOC: Will the state mandate polyfluorinated acolytes? Pat said they could but that is just speculation. Discussion about the cost for that test and where the chemicals come from. Pat is not sure about the cost because he has not dealt with it yet. The destination for HP would allow it to not need all the testing that other public water districts that are bigger would need.
7. Discussion about the problems that we have been having with the key system and that the state could come in and give us trouble if they find an issue.
8. The disinfection process needs to be continuous. The current storage tank could cause issues with the state at some point.
9. MOC would we be able to do a smaller shed over the hydrant now instead of a bigger building. The issue with putting a building over the existing vault is it would need to be big enough to have access to the vault still and encompass all the equipment.

XXII. Water and Sanitation.

A. Meter Readings.

1. June.
  - a) Hydrant.
    - (1) CC Hydrant: 1440969.4
    - (2) Last month: 1438609.7
    - (3) Usage: 2359.7
  - b) Well.
    - (1) CC Well: 1017456.5
    - (2) Last month: 1017213.6
    - (3) Usage: 242.9
  - c) UV: 251
  - d) Lake 1: 14
  - e) Lake 2: 16.8

B. Info.

XXIII. Committees.

A. Dam Committee.

1. Update on stiling wall work.
  - a) Steve E.
    - (1) Work has been stopped due to conflict with expectation and authority of jurisdiction. There was some issue with compliance with the state for the work that was going to be done.
  - b) Steve M
    - (1) Phone conversation with JDS and Brian from the state. JDS is willing to assist HP with meeting the requirements from Dam Safety. They would like to do an on site visit and have a good understanding from Brian about expectations for the project and dam safety. JDS will make a proposal after the site visit. Dam safety will review and approve the project from JDS.
    - (2) Elizabeth is available Aug 30 or Sept 1 for a site visit. Based on their proposal the project would not be completed till 2024. Gold's said they are willing to wait till 2024 to do the project.
2. Change of order for Stilling Wall Project.



- a) MOC has drafted a letter to be read in the meeting. Steve read the letter during the meeting and it will be connected to this packet.
- b) Change of status letter from Anita.
  - (1) Pay for the work that has been performed up to this point. The contract has agreed to continue work once all approval comes through. They will follow the original contract.
  - (2) Approve amendment to Dam contract.
    - (a) MOC would like to scrutinize the billing. There are items that are on the bill that have not been done yet. Beth: the demo is not fully complete. The site is not ready for a pour yet and would not have been on the scheduled day. The rebar is not ready for the pour. They are not consistent with the rebar lengths and not fully attached. The PVC piping is not secured. The wall ends are not complete.
    - (b) Mercedes: when she went to stop them. They were still working at 7pm to 8pm so she did not think it would have been done by the time the pour would have been ready.
    - (c) MOC thinks they should check with the concrete company and see if they were on the way (it was canceled the night before). There is a section in the contract about a 24hr cancellation fee.
    - (d) Mercedes thinks we should have JDS look it over first before we send the payment. That way they can review the site and see if it was ready to pour.
    - (e) MOC points out that the rebar was wrong and would not have been up to state regulations anyways so that would be a breach of contract.
  - (3) Motion to approve the change order with Gold's
    - (a) Motion fails.
    - (b) Gold's invoice will not be paid at this point in time.

XXIV. Financial.

A. Reports.

XXV. Legal.

XXVI. Old business.

A. Hydrant lock.

- 1. Beth is still working on getting the lock switched over to the new lock. She will print a letter and state a day that people can get set up on the new system.
- 2. The keypad states it can be used in rain or shine and further down it says it can be water resistant. She thinks we should get something to keep rain or snow off of the lock.
- 3. Discussion about if a tuff shed could be placed around it. Mercedes thinks we should set up a survey and have people vote on if the water should be chlorinated and open, or keep the lock system. It might be easier to lay everything out and then send out a survey to the community. Make a pros and cons list for either side and send it to the community to vote on.
- 4. MOC thinks we should put everything on hold until we decide what route we want to go with the chlorination. She does not think we need a survey for the community. The board has heard the community talk about what they want and they have the final decision anyway.
- 5. Discussion about the type of lock, quality, and how many codes can be in it. MOC points out that we are putting a bandaid on the problem and that there will still be issues with users.

B. Credit Card.

- 1. Steve is still working on it.

C. Volunteer form.

- 1. Updated and on website.

D. Code of conduct for events (in reference to the agreement when Beth's legal reimbursement was approved).

- 1. Motion to pass the code of conduct.
  - a) MS motion.
  - b) BB seconded.
  - c) Approved.

- E. Reimbursement policy.
  - 1. Passed at the last meeting.
- F. Hiring a cleaner for the CC.
  - 1. Mercedes deep cleaned the CC last week after BINGO. Mouse traps have been laid out. Mercedes thinks we should hire a cleaner to keep up on the CC and make sure it is nice and clean for renters.
  - 2. Mercedes said she can get bids for a monthly cleaner and present the bids at the next meeting.
    - a) MOC thinks that after each event, a cleaner should be hired and be included in the price for the rental. Monique thinks that the people renting should be held accountable to clean up after themselves and keep the cleaning to a monthly basis.
    - b) MOC points out that the board needs to have a set list of what would need to be done before we get bids. She also recommends that the floors should be done so they don't ruin the floor.
    - c) Mercedes said they did a deep clean but is worried about the upkeep.
    - d) MOC suggests that before a party that someone should go in and look over the center and make sure it is clean. They then can go in after the party and ensure it is still in good condition. MOC thinks the CC should be checked before if people might lose their deposit for not upkeep the CC

XXVII. New business.

- A. Info from PC Assessor.
  - 1. Steve M went to a meeting in Jefferson. The new evaluations and effects of new laws will have on tax collections. Discussion about what HP will be collecting in tax rev, and the increase from the previous year.
  - 2. Discussion about only collecting what HP needs to run and not over collecting on funds.
  - 3. Discussion about if the board should cut the money it will receive, or use the money for the projects that have been discussed.
  - 4. Discussion about how the money would be reimbursed to taxpayers if they go that route. Discussion about HP Mill Levies.
- B. Where cash transactions go including additional funds being donated and where the money has gone.
  - 1. Beth had some MOC questioning what happens with the donations and where the donations are sent to. Specifically the donations that are not specified. Mercedes: when a donation is not specified, it goes into the general donations fund. The board decides where the donations from the general category go to.
  - 2. Discussion about how the donations are labeled and that they should be talked about at every board meeting.
  - 3. Fishing badges.
    - a) MOC is wondering if people getting fishing badges receive a receipt. (Mercedes said yes). The applications are also kept that show what people bought.
    - b) Steve is wondering if Nickie has a report that could reflect the donations and what category they are in.
    - c) Beth was told that receipts were not being made. Mercedes said she sent Beth a copy of what was being given to the community. She is happy to change the system if board members have recommendations for a better system.
    - d) MOC wants to ensure that donations are counted as extra money. Not adjusting the budget to account for the money and keeping the budget amount the same. The donation should act as a buffer for what it is given to.
    - e) MOC remembers that previous meetings had a section about donations received and how much money HP has made that month. The community should be able to know how much people have paid for badges and their type of payment. That way they can track the bank statements. The spreadsheet already shows this info and we can talk to Nickie to see if there is a way on her end to break it down further.
- C. Credit card transactions.
  - 1. Are credit card transactions being done on the website (Yes. We have been taking transactions for a while now. We do have to run updates on the plug-ins).
- D. Read only users for QB (board members).

1. Beth thinks all Board members should be able to login to QB as a viewer and not be able to change anything. MOC states that you are able to give each user a login and password. You can then set the users abilities on the site. There is also a log to track anything done in QB.
- E. Change meeting dates for 2024 to the 3rd Saturday of the month.
1. Discussion about moving the meeting to provide extra time for packet review by the board and community.
  2. Discussion about issues that may arise if we change to the 3rd Saturday of the month (holidays and personal schedules).
  3. Financials.
    - a) The delay on the packet is due to waiting for financials. Most companies do not send their bills till past the deadline of the 1st. Nickie also can't balance the books until the bank statement comes in.
  4. Discussion about having a cutoff for bills each month.
- F. Budget 2024.
1. Any committees need to send in their needs for the 2024 budget by the meeting next month (sept. 9).
  2. MOC is wondering if we could budget for the road committee to help with the roads?
    - a) Discussion about what PC would require if we work on the roads. There would also be liability issues.
  3. Appoint budget officer 2024.
    - a) Motion to appoint Nickie as the budget officer.
      - (1) MS motion.
      - (2) MB motion.
      - (3) Approved.
- G. USFS Prescribed Fire Public Meeting at CC.
1. Beth had James contact her about reserving the CC to host a public meeting about upcoming prescribed burns and research studies about the burns.
  2. They are requesting that some community members volunteer and put a unit in their house to measure the air during the burns.
  3. Beth thinks it would be really informative and interesting to hear about the research.
  4. Mercedes said Platte Canyon would like to have a public meeting back here as well. She is wondering if they would be willing to do a couple meetings with them to make sure everyone has a chance to attend.
  5. Beth will reach out about the 18th and 19th of September.
- H. Septic Inspection costs.
1. Reached out to 3 companies for an inspection.
  2. \$300 for the entire inspection. The lids need to be dug up and have at least one board member meet him there. He will check the septic and leach field. \$250 for shirley septic for only septic and no leach field.
  3. Beth would like to have a \$300 check ready for the inspector.
  4. Motion to hire remedy septic to inspect the septic and leach field for \$300.
    - a) MS motion.
    - b) SM seconded.
    - c) Approved.
- I. Hiring to trim, weed wack, and mow the playground area.
1. David Blau has offered to trim, weed wack, and mow the playground.
- J. Playground sign.
1. Chris said he will find time to do it. The materials are over there.
- K. USB drive for all directors.
1. Cami will email directors and make sure they all have a USB with HP info on it.

XXVIII. Public Comment.

- A. Road committee.



1. MOC sent docs about the roads to the website. PC can not substantiate why they cannot maintain these roads even after raising the HP taxes. He would like to join the subcommittee for roads and start helping with the roads and getting things moving.
- B. MOC asked about chlorinating the hydrant and if it would affect the septic.
  1. Pat does not think it would. The levels would be low enough by the time you got to your house that it shouldn't mess with your septic.
- C. MOC is worried about the picnic tables that teenagers have been messing with. They should be secured in some way.
- D. MOC was wondering if the bills could be summarized.
- E. MOC is wondering if HP could outlaw drones in public places. The airspace is open to anyone, but you can outlaw drones over public places. There have been complaints about drones. MOC is worried about people fighting the other side of it and wanting to be allowed to fly their drones.
- F. Beth will get the key and sign a post to the MOC that needs it. She was unable to attend in person today due to her being sick.

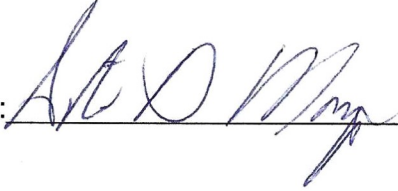
XXIX. Adjournment (11:28 pm).

- A. CM motion.
- B. SM seconded.
- C. Approved.

NEXT REGULAR BOARD MEETING WILL BE HELD ON 9/9/23 AT 9:00 A.M.

Harris Park Metropolitan District Community Center, 2154 Shelton Drive, Bailey, Colorado 80421

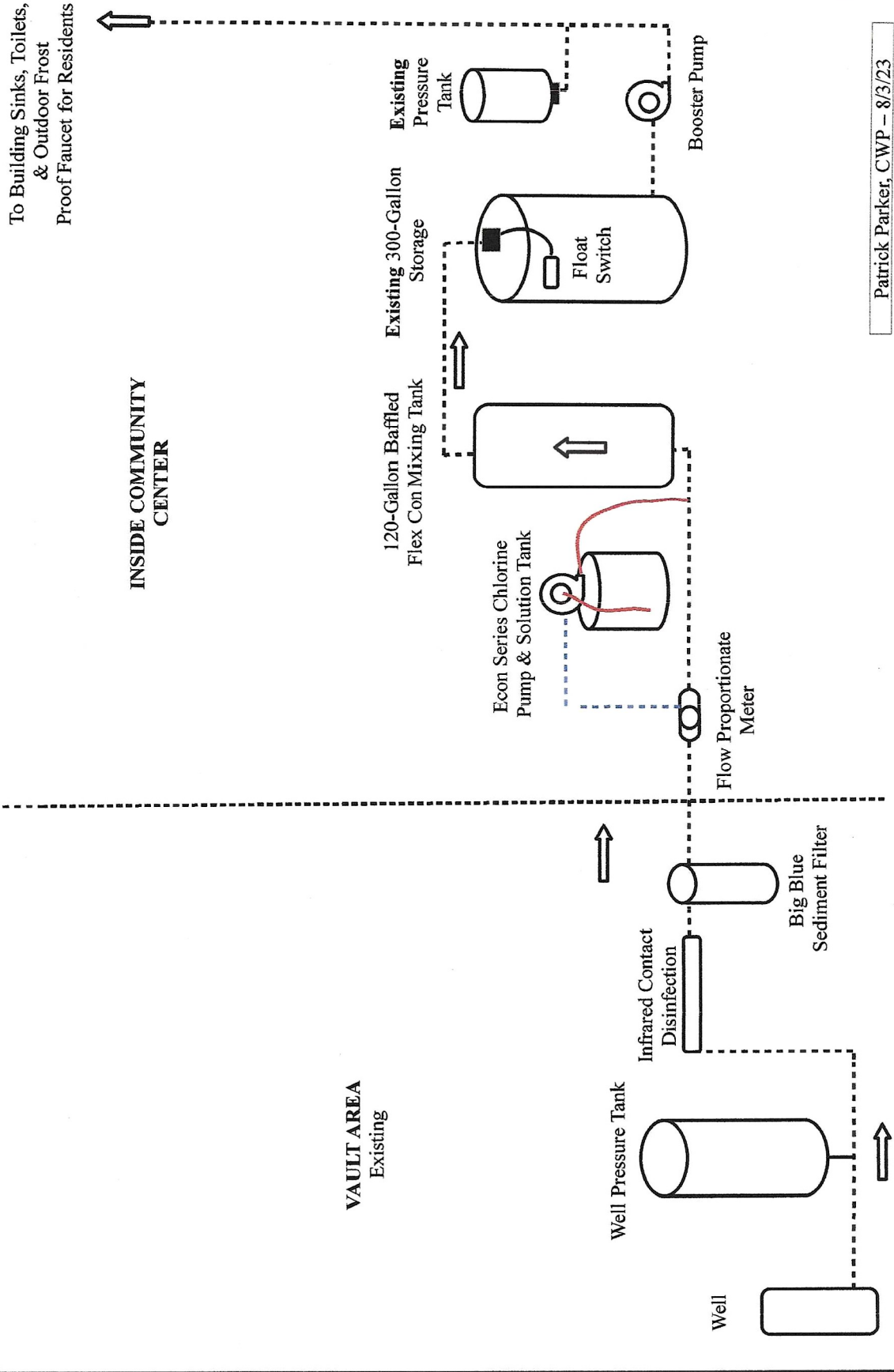
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Date: \_\_\_\_\_

9-9-23

# Proposed Harris Park Treatment Process Flow

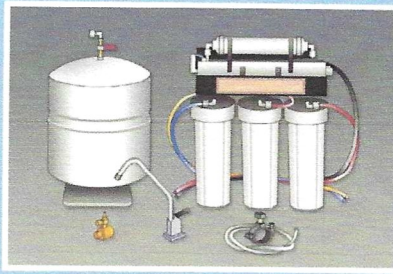


Patrick Parker, CWP - 8/3/23



# DRINKING WATER SYSTEMS DESIGN APPROVAL

This quick guide gives an overview of the design review and approval process for drinking water facilities.



## DESIGN APPROVAL REQUIRED

Is your public water system thinking about constructing a new waterworks (e.g. source, treatment process, storage tank) and/or modifying an existing water facility? Before starting construction, Regulation 11 requires that the division review and approve the water facility design. Most, but not all, water system construction projects require approval prior to construction. Details are available in the *Design Criteria for Potable Water Systems* on our website listed below.

### Is a professional engineer required?

Community water system designs are required by Regulation 11 to be designed by a professional engineer licensed in the State of Colorado.

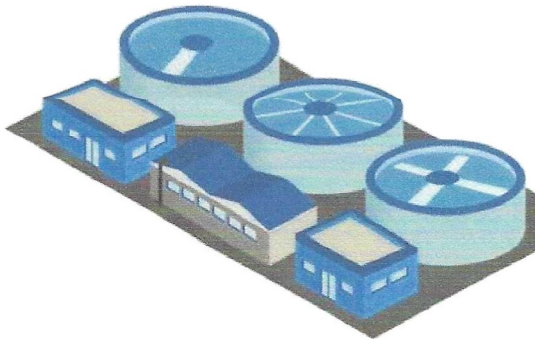
Non-community water system designs are **not** required to be designed by a professional engineer. However, it may be beneficial for non-community water systems to coordinate with someone who is experienced with water system design.

### Design criteria for drinking water systems

The engineering section reviews and approves water system designs based on the *State of Colorado Design Criteria for Potable Water Systems* (design criteria). This design criteria covers all aspects of potable water facility design and is available on our website listed below.

### Design submittal package requirements

The design submittal required elements depend on the type of water system (community vs. non-community) and the scope of the project. More information is available in the design criteria, located on our website listed below.



### Projects that require division approval

- New public water systems
- New sources (e.g. wells, springs) including re-drills of existing wells \*
- New water treatment facilities or modifications to existing water treatment facilities (e.g. switching from gas chlorine to sodium hypochlorite)
- Storage tanks

### Projects that do not require division approval

- In-kind replacement of equipment (e.g. exact replacement)
- Piping modifications that do not affect treatment or plant hydraulics
- Distribution System Projects (unless project used for disinfection contact time, has pump station wetwells, or is in response to a drinking water violation)

\* Water sources that will be used for public water systems need to be approved by both the Water Quality Control Division and the Colorado Division of Water Resources ([dwr.colorado.gov](http://dwr.colorado.gov)).

Design approval is a regulatory requirement, but the review process is also a best practice.

Division engineering staff have expertise with water system

design and regulatory requirements. This process may eliminate costly mistakes prior to construction.



## ANY QUESTIONS?

[cdphe.wqengreview@state.co.us](mailto:cdphe.wqengreview@state.co.us) | [cdphe.colorado.gov/design](http://cdphe.colorado.gov/design)



# DRINKING WATER SYSTEMS DESIGN APPROVAL

## Project planning

All types of construction projects require planning and often are more complicated than initially thought. Generally, the more complicated a project is the more planning, time, and effort is required to get the project ready and approved for construction.



New water facility projects can range from drilling a new well to the installation of a new innovative water treatment facility. Each project is different, but the timeline below should serve as a rough guide on project planning.



### 12-24 months before construction

- Research funding sources
- Research water quality (historic or sample)
- Select an engineer/ water professional to assist
- Procure water rights and well permits if needed



### 9-12 months before construction

- Hire an engineer/ water professional to begin design work
- Consider what level water system operator will be needed for the system
- If required, submit the design to local planning authorities
- If required, submit the discharge permit application before anticipated start date (check local requirements)



### 4-8 months before construction

- Submit the design to local authorities
- Submit the design to division
- Identify/ bid contractors
- Finalize required permits and funding
- Select contractor and begin construction

## Approval timeframe and letter

The division aims to respond to design submittals within 45 days. This goal does not include any time awaiting responses to requests for information from water systems or their representatives.



All approval letters will be sent on a State of Colorado letterhead to the administrative contact. The division does not give verbal approvals for water system projects.

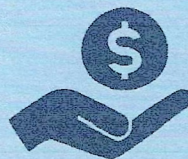
The approval is valid for 365 days from the letter date and means that construction should begin within one year from the letter date.

## After construction project completion

**Construction complete certification:** After construction is complete, a water system is required to submit a written statement that the facility was built as approved by the division and that any conditions of approval were met. The statement must be submitted before starting routine operations and must include the anticipated start date. This form is located on our [website](#).

If the system was designed by a professional engineer, the statement must be submitted by a licensed representative of the design engineering firm. For non-community systems, the statement must be submitted by the operator in responsible charge.

**Monitoring plan revisions:** Within 30 days of any system modification, the water system must submit a revised monitoring plan reflecting all changes to the division.



### Funding Opportunities

The division has several funding options available for water systems. Please contact the Grants and Loans Unit for more information. [cdphe.colorado.gov/glu](http://cdphe.colorado.gov/glu)



## ANY QUESTIONS?

[cdphe.wqengreview@state.co.us](mailto:cdphe.wqengreview@state.co.us) | [cdphe.colorado.gov/design](http://cdphe.colorado.gov/design)



DEWCO Inc.  
500 Corporate Circle Suite A  
Golden, CO 80401

**PRICE QUOTE**

Phone 303-232-6861  
Fax 303-232-3472

Page 1

Printed 08/03/23 RB

**Quoted**  
INDEPENDENT WATER WORKS LLC  
144 BALL ROAD  
BAILEY CO 80421-1512  
Buyer: Patrick Parker  
Tel:720-412-6601 Fax:

**Ship To**  
INDEPENDENT WATER WORKS LLC  
144 BALL ROAD  
BAILEY CO 80421-1512

Quote # Q007625	Quote Date 08/03/2023	Exp Date 09/02/2023	Customer # 0004022	Customer P/O #	Ship Via UPS GRND PPA	Writer RB
Job ID			Customer Terms PREPAY CREDIT CARD		Salesman HOUSE	

Product	Description	UM	Quant	Unit Price	Disc%	Extension
	<b>ST-E2OPHF81S7</b> MULTI-FUNCTIONAL PUMP 4.5 gpd 80 psi 10' Cable Pump Tube F	EA	1	591.63	20.00	473.30
	<b>ST-JLP0750-1PPG</b> 3/4" Plastic Water Meter 1 pulse/gallon	EA	1	313.85	10.00	282.47

X: _____ (Accepted by)	Sub Total	\$755.77	<b>T o t a l</b>  <b>\$792.80</b>
	Freight	\$0.00	
	Misc Charges	\$0.00	
	Tax Amount	\$37.03	

<b>MESSAGE</b> FREIGHT NOT INCLUDED UNLESS SPECIFIED ABOVE	<b>TERMS</b>
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# MixMaster™ Series

Disinfection tanks



## Features

- New baffle design ensures uniform mixing and exceeds health agency contact time standards
- 0.6 baffle factor\* means fewer tanks to maintain 4 log treatment and 20 minutes contact time
- With a 0.6 baffle factor\*, it also takes up less space
- Water exits from the top of the tank through a stainless-steel reinforced water connection
- Holes in lower water chamber allow partially mixed water to enter outer chamber

*\*0.6 baffle factor as tested by the Water Quality Association Test labs*



## Highly effective mixing disinfection systems

The MixMaster™ series of composite baffle tanks are a superior alternative to traditional contact tanks found in many water treatment systems. MixMaster tanks utilize a patented internal baffle and diffuser system that redirects the treated water through a series of internal chambers. This unique baffle design creates turbulence which boosts the mixing of water and injected disinfectants such as chlorine or ozone, while nearly quadrupling the contact time compared with a standard contact tank. Rigorous third-party testing by the Water Quality Association have confirmed MixMaster tanks are capable of increasing water retention times by a baffle factor of 0.6. MixMaster baffle tanks, a safe and reliable way to disinfect potable water.

MixMaster tanks are suitable for a range of potable water applications including hospitals and other buildings where standardized cleanliness of drinking water is required. Typical applications include settings where primary disinfection (involving initial disinfection of water at its point of source) and residual maintenance (where water continues to be protected from downstream or future contamination) are required.

Available in 300L and 450L (80 gal & 119 gal) models, MixMaster tanks ensure uniform mixing and sufficient retention time to meet stringent contact time standards set by most health agencies, including the USEPA. Fewer tanks are required to maintain a 4-log treatment and a 20-minute contact time, meaning fewer tanks are required, less installation space is needed and quicker installation times can be achieved.

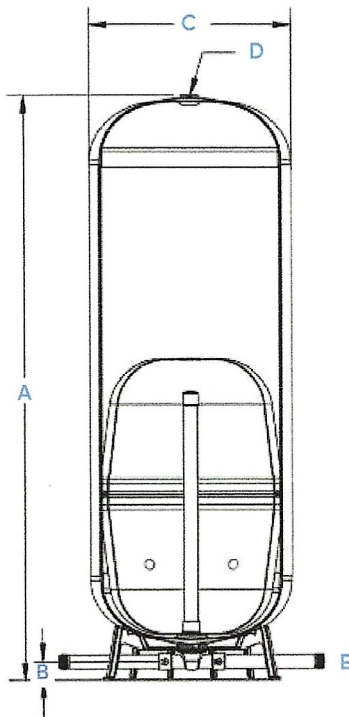
## Models

Model Number	Connection	Nominal Volume		Dimensions (mm)				Gross Weight [kg]
		Liters	Gallons	A	B	C	D	
<b>Vertical</b>								
BAF 80	1¼" NPT	300	80	1450	57	614	1¼ FPT	28.1
BAF 120	1¼" NPT	450	119	1831	57	614	1¼ FPT	39.0

Note: Minor dimensional variation may occur.

## Specifications

Product Series Name	MixMaster™
Max. Operating Temperature	49°C / 120°F
Max. Operating Pressure	6.9 bar   100 psi



### Top and bottom domes:

Injection molded copolymer polypropylene

### Shell:

Extruded copolymer polypropylene

### Outer shell:

Fiberglass-wound, coated with epoxy resin

### Base:

Injection molded high-impact ABS

### Connection:

Rigid scheduled 80 PVC (E)

### Top port fitting:

Stainless steel reinforced glass filled polypropylene insert molded into the top dome (D)

### Inner Baffle:

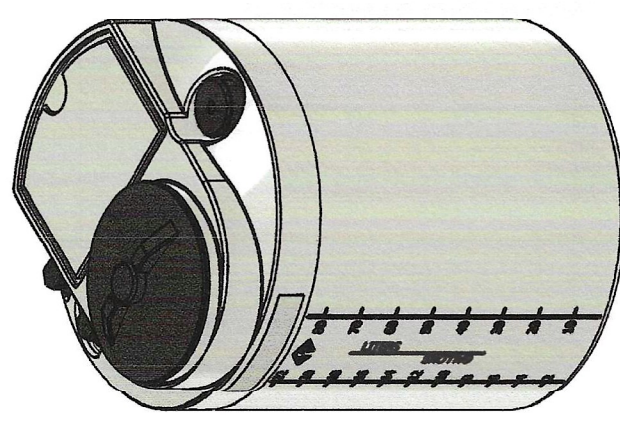
Copolymer polypropylene

### Inner Standpipe:

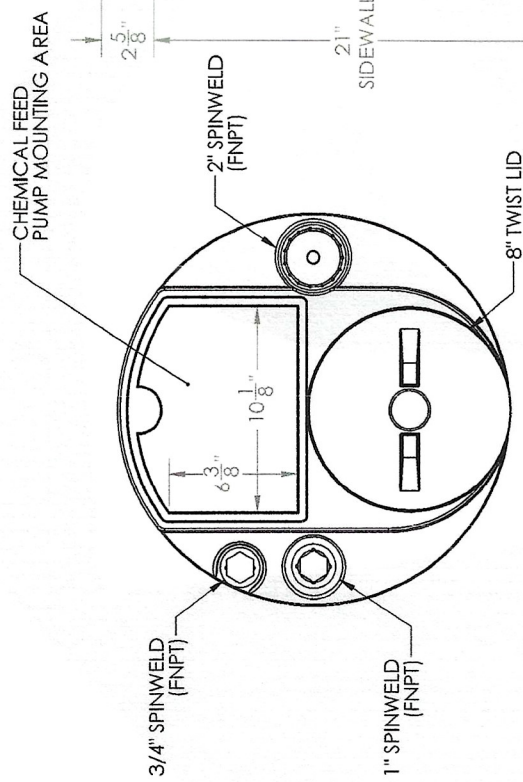
Schedule 40 PVC with diffuser cap



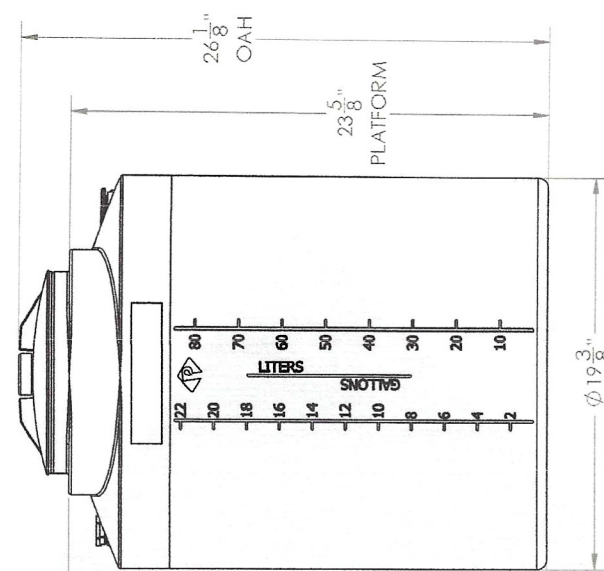
1 2 3 4 5 6 7 8



**ISOMETRIC VIEW**



**PLAN VIEW**



**FRONT VIEW**

	PART NUMBER	
25 GAL PROCHEM® PROCESS TANK, Ø19.5" x 26"	CHEMICAL (NATURAL)	POTABLE WATER (BLACK)
LPE (1.0)	01-34024	01-31864
LPE (1.5)	01-31272	N/A
LPE (1.9)	01-31262	N/A
XLPE (1.9)	*01-31322	N/A

ALTERNATIVE MATERIALS, COLOR, AND ACCESSORIES ARE AVAILABLE. CALL FOR ADDITIONAL INFO

- NOTES:**
- CAPACITY: 25 GAL. NOMINAL
  - TANK MATERIAL OPTIONS:  
LPE 1.5, LPE 1.9, XLPE, FDA WATER, IPL, PVDF
  - SERVICE PRESSURE: ATMOSPHERIC
  - NSF/ANSI STANDARD 61 CERTIFIED
  - 4A. PRODUCT MARKED WITH \* NOT CERTIFIED AVAILABLE W/FRP WRAP
  - CONTACT CUSTOMER SERVICE FOR MORE INFO

**PEABODY**  
ENGINEERING

PROJECT: PROCHEM® TANKS  
CUSTOMER: PEABODY STANDARD  
SITE/LOCATION: -  
SALES ORDER: -  
SEE TABLE

NAME: AAF DATE: 10/31/19  
DRAWN: CHECKED: EIG APPR. MFG APPR. G.A.  
DIMENSIONS ARE IN INCHES  
TOLERANCES: ±.04"  
ANGULAR: ±.5°  
ONE PLACE DECIMAL: ±.25  
TWO PLACE DECIMAL: ±.125  
THREE PLACE DECIMAL: ±.050

TANK MATERIAL: -  
INNER TANK SIZE: -  
OUTER TANK SIZE: -  
CUSTOMER PO#

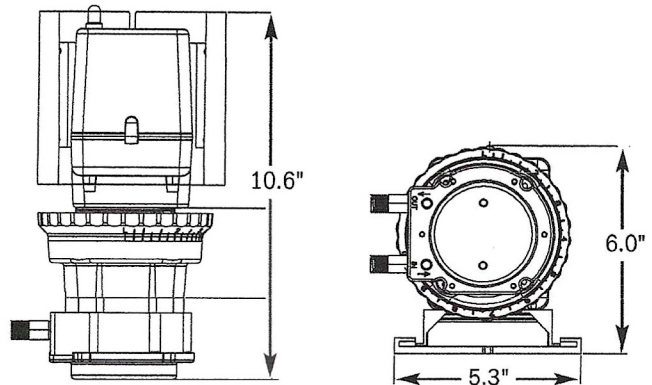
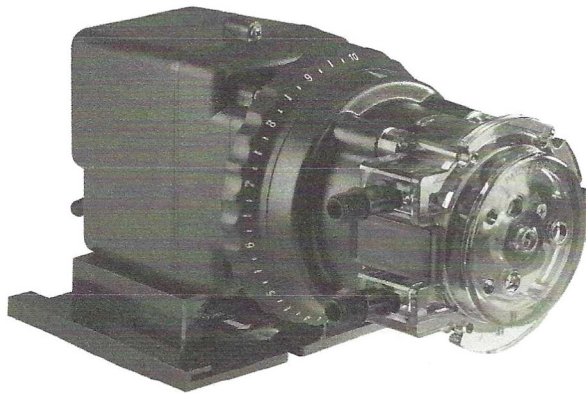
DO NOT SCALE DRAWING

SIZE: 25 GAL PROCHEM®  
DESC: PROCESS TANK, Ø19.5" x 26"  
REV: B  
SCALE: 1:6  
SHEET 1 OF 1

THE FOLLOWING DRAWINGS ARE CONCEPTUAL AND INTENDED FOR CLIENT REVIEW AND APPROVAL PURPOSES ONLY. 6. THE DRAWINGS ARE AN ESTIMATION OF DESIGN. 7. DESIGN, SUPPORTS AND ACCESSORIES ARE AVAILABLE. CALL FOR ADDITIONAL INFO. 8. THE FOLLOWING DRAWINGS ARE CONCEPTUAL DESIGN INTENT AND FUNCTIONAL ONLY. 9. CONCEPTUAL DESIGN INTENT AND FUNCTIONAL ONLY. 10. REV. A - PARACENTER.

# CLASSIC SERIES SINGLE HEAD ADJUSTABLE SPECIFICATIONS

**STENNER PUMPS**



**Shipping Weight 9 lbs (3.9 kg)**



THIS PUMP IS TESTED AND CERTIFIED BY WQA ACCORDING TO NSF/ANSI 61 FOR CONTACT WITH SODIUM HYPOCHLORITE AND WATER ONLY AND NSF/ANSI 372.



**Intertek**  
94247  
**CONFORMS TO**  
**ANSI/NSF STD. 50**  
Equipment for swimming pools, spas, hot tubs and other recreational water facilities.

Listings vary by model

## FEATURES

- Manually adjustable flow rate output
- Self-priming, does not lose prime or vapor lock
- Pumps off-gassing solutions and can run dry
- 3-point roller design assists with anti-siphon
- Tube replacement without tools
- Output reproducibility
- Tube lubrication not required
- Foot valve not required to prime
- Output volume not affected by back pressure
- Tubes and pump heads interchangeable between models
- Installation accessories included



# CLASSIC SERIES SINGLE HEAD ADJUSTABLE SPECIFICATIONS

STENNER PUMPS

## SPECIFICATIONS

### Flow Rate Output Control

External dial ring, 5-100% in 2.5% increments

### Maximum Working Pressure

25 psi (1.7 bar), 100 psi (6.9 bar)

### Maximum Operating Temperature

125°F (52°C)

### Maximum Suction Lift

25 ft (7.6 m) vertical lift, based on water

### Motor Type

1/30 HP, shaded pole, class B

### Shaft RPM (average maximum)

26 or 44

### Duty Cycle

Continuous

### Motor Voltage (Amp Draw)

120V 60Hz 1PH (1.7)

220V 60Hz 1PH (0.9)

230V 50Hz 1PH (0.9)

250V 50Hz 1PH (0.9)

### Power Cord Type

120V 60Hz, 220V 60Hz: SJTOW,

230V 50Hz, 250V 50Hz: H05VV-F

### Power Cord Plug End

120V 60Hz NEMA 5-15P

220V 60Hz NEMA 6-15P

230V 50Hz CEE7/7

250V 50Hz CEE7/7

## MATERIALS OF CONSTRUCTION

**All Housings** Polycarbonate

### Pump Tube

Santoprene\* (FDA approved) or Versilon\*\*

### Check Valve Duckbill

Santoprene\* (FDA approved) or Pellethane†

**Pump Head Rollers** Polyethylene

**Roller Bushings** Oil impregnated bronze

### Suction/Discharge Tubing, Ferrules

Polyethylene (FDA approved)

### Tube and Injection Fittings

PVC or Polypropylene (both NSF listed)

### Connecting Nuts

PVC or Polypropylene (both NSF listed)

### 3/8" Adapter

PVC or Polypropylene (both NSF listed)

### Suction Line Strainer and Cap

PVC or Polypropylene (both NSF listed);

ceramic weight

**All Fasteners** Stainless steel

**Pump Head Latches** Polypropylene

## ACCESSORIES

**3** Connecting nuts 1/4" or 3/8"

**3** Ferrules 1/4" or 6 mm *Europe*

**1** Duckbill check valve 100 psi (6.9 bar) max.  
OR **1** Injection fitting 25 psi (1.7 bar) max.

**1** Weighted suction line strainer  
1/4", 3/8" or 6 mm *Europe*

**1** 20' Roll suction/discharge tubing  
1/4" or 3/8", white or UV black  
OR 6 mm White *Europe*

**1** Additional pump tube

**2** Additional latches

**1** Mounting bracket

**1** Manual

\* Santoprene® is a registered trademark of Exxon Mobil Corporation.

\*\* Versilon® is a registered trademark of Saint-Gobain Performance Plastics.

† Pellethane® is a registered trademark of Lubrizol Advanced Materials, Inc.

## FLOW RATE OUTPUT CHART

### Single Head Adjustable 25 psi (1.7 bar) maximum

Approximate 20:1 turndown, 2.5% increments

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	
45 SERIES	45M1	45MJL1	1	0.2 to 3.0	0.01 to 0.13	0.02 to 0.27	0.8 to 11.4	0.03 to 0.48	0.56 to 7.92	0.6 to 9.1	0.02 to 0.38	0.31 to 6.32
	45M2	45MJL2	2	0.5 to 10.0	0.02 to 0.42	0.04 to 0.89	1.9 to 37.9	0.08 to 1.58	1.32 to 26.32	1.5 to 30.3	0.06 to 1.26	1.04 to 21.04
	45M3	45MJL3	3	1.1 to 22.0	0.05 to 0.92	0.10 to 1.96	4.2 to 83.3	0.18 to 3.47	2.92 to 57.85	3.3 to 66.6	0.14 to 2.78	2.29 to 46.25
	45M4	45MJL4	4	1.7 to 35.0	0.07 to 1.46	0.15 to 3.11	6.4 to 132.5	0.27 to 5.52	4.44 to 92.01	5.1 to 106.0	0.21 to 4.42	3.54 to 73.61
	45M5	45MJL5	5	2.5 to 50.0	0.10 to 2.08	0.22 to 4.44	9.5 to 189.3	0.40 to 7.89	6.60 to 131.43	7.6 to 151.4	0.32 to 6.31	5.28 to 105.14
85 SERIES	85M1	85MJL1	1	0.3 to 5.0	0.01 to 0.21	0.03 to 0.44	1.1 to 18.9	0.05 to 0.79	0.76 to 13.13	0.9 to 15.1	0.04 to 0.63	0.52 to 10.49
	85M2	85MJL2	2	0.8 to 17.0	0.03 to 0.71	0.07 to 1.51	3.0 to 64.4	0.13 to 2.68	2.08 to 44.65	2.4 to 51.5	0.10 to 2.15	1.67 to 35.76
	85M3	85MJL3	3	2.0 to 40.0	0.08 to 1.67	0.18 to 3.55	7.6 to 151.4	0.32 to 6.31	5.27 to 105.14	6.1 to 121.1	0.25 to 5.05	4.24 to 84.10
	85M4	85MJL4	4	3.0 to 60.0	0.13 to 2.5	0.27 to 5.33	11.4 to 227.1	0.48 to 9.46	7.92 to 157.71	9.1 to 181.7	0.38 to 7.57	6.32 to 126.18
	85M5	85MJL5	5	4.3 to 85.0	0.18 to 3.54	0.38 to 7.55	16.3 to 321.8	0.68 to 13.4	11.32 to 223.40	13.0 to 257.4	0.54 to 10.73	9.03 to 178.75
Approximate Output @ 60Hz									Approximate Output @ 50Hz			

### Single Head Adjustable 100 psi (6.9 bar) maximum

Approximate 20:1 turndown, 2.5% increments

Model	Item Number Prefix	Pump Tube	Gallons per Day	Gallons per Hour	Ounces per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	Liters per Day	Liters per Hour	Milliliters per Minute	
45 SERIES	45MHP2	45MJH1	1	0.2 to 3.0	0.01 to 0.13	0.02 to 0.27	0.8 to 11.4	0.03 to 0.48	0.56 to 7.92	0.6 to 9.1	0.02 to 0.38	0.31 to 6.32
	45MHP10	45MJH2	2	0.5 to 10.0	0.02 to 0.42	0.04 to 0.89	1.9 to 37.9	0.08 to 1.58	1.32 to 26.32	1.5 to 30.3	0.06 to 1.26	1.04 to 21.04
	45MHP22	45MJH7	7	1.1 to 22.0	0.05 to 0.92	0.10 to 1.96	4.2 to 83.3	0.18 to 3.47	2.92 to 57.85	3.3 to 66.6	0.14 to 2.78	2.29 to 46.25
85 SERIES	85MHP5	85MJH1	1	0.3 to 5.0	0.01 to 0.21	0.03 to 0.44	1.1 to 18.9	0.05 to 0.79	0.76 to 13.13	0.9 to 15.1	0.04 to 0.63	0.52 to 10.49
	85MHP17	85MJH2	2	0.8 to 17.0	0.03 to 0.71	0.07 to 1.51	3.0 to 64.4	0.13 to 2.68	2.08 to 44.65	2.4 to 51.5	0.10 to 2.15	1.67 to 35.76
	85MHP40	85MJH7	7	2.0 to 40.0	0.08 to 1.67	0.18 to 3.55	7.6 to 151.4	0.32 to 6.31	5.27 to 105.14	6.1 to 121.1	0.25 to 5.05	4.24 to 84.10
Approximate Output @ 60Hz									Approximate Output @ 50Hz			

**NOTICE:** The information within this chart is solely intended for use as a guide. The output data is an approximation based on pumping water under a controlled testing environment. Many variables can affect the output of the pump. Stenner Pump Company recommends that all metering pumps undergo field calibration by means of analytical testing to confirm their outputs. The information contained in this flyer is not intended for specific application purposes. Stenner Pump Company reserves the right to make changes to prices, products, and specifications at any time without prior notice.



# HI97710

pH,  
Free Chlorine & Total Chlorine  
Photometer



INSTRUCTION MANUAL

 **HANNA**<sup>®</sup>  
instruments

## Harris Park - Proposed Chlorination Equipment Costs (Estimated)

(Flexcon) 120-Gallon Mixmaster retention tank	-	\$2,016.00
(Stenner) Econ FP Series Peristaltic Pump	-	\$473.30
(Badger) Pulse Flow Meter 3/4-inch	-	\$282.47
(Pro-Chem) 25-Gallon Polymer Solution Tank	-	\$256.00
(Hanna Instruments) HI97710 Free Chlorine Meter	-	\$496.00

**Total Equipment Costs - \$ 3,523.77**

➤ **Costs estimates don't include labor and additional piping, connections, or electrical work**