Waterville Estates Village District Commission
Water and Roads Committee
September 27, 2021

The meeting was called to order by Chairman Herlihy at 8:43 am. The meeting was held at Waterville Estates Community Center, 562 Winterbrook, Campton NH 03223.

Members Present:	John Herlihy, Stan Bujalski, Jaime Oldmixon, Terry Bennett.
Others Present:	Ian Kasowitz; Stiles Co., John Scruton (Zoom) Stephanie Arpon (Zoom).

Mr. Herlihy left meeting at 10:00 am for medical appointment. Mr Scruton left Zoom meeting early for an alternate meeting.

Item 1: Vendor Presentation by Stiles Co, regional representative for Badger Water Meters.

Mr. Ian Stiles was introduced. Badger Meter Corporation is a leading manufacturer of water flow measurement meters. They were founded in 1905 headquartered in Milwaukee WI. The Stiles Company was founded in 1983 and been the authorized Badger Meter Distributer in New England for 38 years. They focus on providing water meters and reading systems in MA and NH. Stiles Co. is a full stocking distributor with delivery services. Stiles provides in-house training, technical support and loaner equipment. Technical support includes on-site, remote access, phone and text support.

Mr. Herlihy spoke to the need of a system which will accurately record water use for all users, assist in setting an accurate and fair rate system, and receive data to help identify leaks determining water loss.

Mr. Kasowitz supported the purpose of the meters would help with distribution information, accurately record usage, detect water loss in the system. The meter can also provide information with leak detection alerts, reverse flow alerts, low temperature alerts, tamper alerts, and empty pipe alerts.

There are several options for purchasing meters, readers, and radio/ cell read equipment.

Badger Disc Series: This meter is a positive displacement meter. It has a nutating disc technology. (5/8 to 2 inch) It has an oversized chamber which means less wear and longer accuracy. It tolerates some impact from chemicals and sand in the system. It has the lowest pressure loss for a mechanical meter. It exceeds AWWA C 700 and C 710 standards. The Nutating disc is a vary accurate mechanical meter. This meter is a low lead meter than can be repaired with replacement parts. Many meters have been inservice for over 30 years. Horizontal mount of the meter is recommended.

High resolution Readers for this series offer two options. HR-E is a reader with an eight digit encoder. It has a snowflake looking leak detection symbol. It is waterproof. HR-E LCD is a fully electronic encoder. It has a nine digit display, alarms for low flow, leaks, low temperature, unauthorized encoder removal, magnetic tamper proof, reverse flow detection, and an end of battery life indicator (20 Year).

E-Series Ultrasonic Meter Series: This is an ultrasonic water meter. It meets or exceeds the AWWA standards. It is available in 5/8 to 4 inch sizes. 40 utilities in New England use this meter. E-Series meter has no moving parts which equals no wear and no maintenance. This residential meter has a 20 year lifespan. It must be replaced at the end of its life. It is a one piece electronic meter, sealed, which is tamper protected. It measures a very low flow rate. This meter can be mounted either horizontal or vertically. The meter has a nine digit display with alerts.

E-Series; Next Generation Meters have faster data return information and has replaceable electronics. This meter monitors pressure and temperature. Water pressure coming into the meter outside of normal limits will be detected and an alert sent. It can help detect leaks. An alarm will be sent if temperature of the water falls outside of normal limits.

An E-Series shutoff valve is an option that can be added for restricting open closed and partial settings to prevent water events in a home. This system is managed through the BEACON software management system.

Badger ORION products were introduced to pair with meters and encoders to offer radio or cell read support for reading and detection of alarms and use data. The information is hosted by the BEACON software.

Reading of the meters in a fixed location can be done by a hand reader or "drive by" reading technology. An Infrastructure free fixed network has a cellular option. ORION cellular Endpoint uses an existing management platform which is secure. This equipment has a 20 year life battery sending data at intervals each15 minutes. There are no cellular contracts needed with the cell provider for the WEVD as this is part of the Badger annual support fee.

Beacon Software which support the data collection is Cloud Based. It has the availability to be implemented using Quick Books.

Other topics of questions related to security of the meters, encoders and system; customer support, training on the system, access to residential customer use information and alarms by owners and understanding of the cellular reliability for our WEVD Estates Community.

Mr. Kasowitz indicated that if a list of residential addresses could be sent to him, he can check the viability of a cellular system in WEVD. The system does not rely on a residential cellular platform but rather a management cellular platform. Mr. Oldmixon has this information which he will forward for analysis.

Citizen Comments:

Ms. Arpon indicated her husband is a plumber. She asked if he could install the meter? Mr. Herlihy indicated the committee has not made any recommendations on this issue at this time. Mr Bujalski indicated that the Water Ordinance has a schematic to show a correct meter installation standard. He did not see any reason to exclude any Plumber able to meet the standard. Mr Oldmixon restated that the WEVD would buy the meters ,encoders, and related meter equipment to be installed. The water metering equipment would be made available with the ordinance required permit.

Other Business: None

Adjournment: Motion by Bennett, second by Oldmixon to adjourn at 10:18 am. Motion Carried. Ayes: Bennett, Bujalski, Oldmixon. Absent : Herlihy (left meeting at 10 am)

Respectfully Submitted:

Recording Secretary: Terry Bennett

Signature: Terry Bennett

Chairman: John Herlihy

Signature: John Herlihy

APPROVAL DATE: 11-28-2021

Approved on:
Committee/Board Name: WATER COMMITTEE
Committee Chair Initials: JH
Rec'd by WEVD Clerk on:
WEVD Clerk Initials: