

## MEDFIELD DEPARTMENT OF PUBLIC WORKS

\*\* The DPW presents "THE WORKS", a quarterly newsletter to inform the residents of Medfield on the happenings of their Public Works Department including updates on projects, current events, and upcoming developments \*\*

### HIGHWAY PROJECTS:

#### Philips Street Bridge Replacement

The Philips Street Bridge was closed by MassDOT engineers in August of 2016 in need of repair. The Town had applied for a Municipal Small Bridge Initiative Grant and with the help from Representative Dooley's office at the State House in Boston, we received \$100,000 to replace the bridge. After months of planning, design and construction, in July of 2018 the bridge was reopened to the public.



Completed Philip Street Bridge 2018

#### Pavement Management Roadway Improvements

##### Route 109

Main Street, from Causeway Street to the Millis Town Line. This project utilized a Bonded Wearing Course method which added 3/4 inches of a Nova Chip asphalt that will extend the life of this section of roadway. It is an inexpensive alternative preservation method for high traffic volume roads.

##### North Street

Pine Street to the Dover Town Line. North Street was milled 1.5 inches and paved with a Super-Pave mix that was heavily compacted with multiple vibratory rollers. This type of pavement is lab tested to ensure quality. This method of paving is a more permanent solution.

##### Lowell Mason Rd. Area

Lowell Mason Road, John's Ave., Remsen Ave., Meade Ave. and Castle Ave. The method used on these roads was a rubber chip seal. This is also an inexpensive alternative preservation method. The loose chips in this process are able to be swept up right away to avoid issues.



Route 109 Nova Chip 2018



North Street Mill and Overlay 2018



Lowell Mason Rubber Chip Seal 2018

#### Various Roadways

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Many roadways in town were crack sealed. This is a preventative maintenance operation to keep water from entering the asphalt layers. This is important during the winter as water will freeze and create heaves that will break up the asphalt.



## **WATER MAINTENANCE:**

### **Hydrant Flushing**

Hydrant Flushing is scheduled to begin Sunday, September 23rd and continue through Friday October 5th between the hours of 8:00 pm and 5:00 am. Flushing of the hydrants occur twice a year, once in April and once in October. Hydrant flushing is

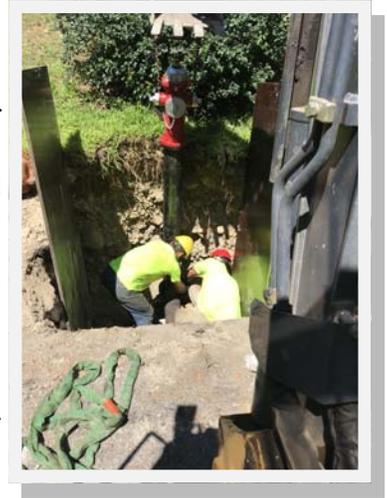


a very important function of the Water Division. It is performed to ensure that no buildup of sediments collect in the pipes and to maintain quality drinking water. During the flushing operation you may experience discolored water which is normal and expected as the movement of the water collects any sediments in the pipes and “flushes” them out of the system. Please run you faucets a little while longer and the water should clear shortly after.

### **Hydrant Replacements**



Hydrant replacements are common maintenance practices of Medfield’s Water Division staff. Sometimes hydrants get hit by vehicles or they are replaced because of their age. It is essential to keep the hydrants in town maintained for fire protection and quality of water. To replace a hydrant takes multiple trained staff members, each understanding their roles in the task. Safety is very important in these types of projects, from personal protective equipment such as hard hats, eye protection and gloves to shoring of the excavation using trench boxes or sheathing with hydraulic jacks.



### **Mount Nebo Water Storage Tank**

The Mount Nebo Water Storage Tank is scheduled to be emptied in late October for the purposes of cleaning and disinfecting the inside as well as repairing an interior mixing valve to keep the water moving. At the same time, the inner wall structure will be inspected to measure the extent of

repair and painting work. The outside of the tank had been inspected previously and new safety and exterior improvements are planned for the tank. Once the interior inspection is completed, a cost proposal will be developed. During the emptying of the tank you may experience slight water quality issues and/or loss of some pressure.



## **MISC. ASSIGNMENTS:**



### **Cemetery Project**

The Cemetery Staff was asked to prepare an area at the Vine Lake Cemetery to install a new bench that had been donated. The staff did a great job of installing a stone foundation to accept the bench and planted a tree to complete an aesthetically pleasing area.



## Transfer Station

In the Spring of 2018, the DPW was asked by the Transfer Station and Recycling Committee to assist the SWAP area by installing a new large storage tent for their operation. Many of our staff members contributed to the effort.



**NOTE:** The DPW had conducted a trial period to open the Transfer Station at 7:30 am on Friday mornings through the summer months to give an opportunity for residents to drop off solid waste and recycling before work. The time period for this early opening may be expanded in the next calendar year.

## Wastewater Treatment Plant—Ultraviolet Disinfection System



The Wastewater Treatment Plant located off of West Street, treats thousands of gallons of wastewater per day. Our staff members work diligently to ensure that proper operation and maintenance takes place at the plant. The Ultraviolet Disinfection System (*shown to the left*) is one of the final stages in the treatment process that disinfects the effluent water before it is emptied into the Charles River. The effluent water is constantly sampled and tested for strict compliance. The Ultraviolet Disinfection System consists of 24 ultraviolet bulbs that treated water passes through in this final stage. Each bulb is examined, and some do need replacement from time to time to get the maximum extent of disinfection. These bulbs have a 5,000 hour life expectancy.



## Employee Spotlight



Meet Malcolm Gibson, Heavy Equipment Operator of the Medfield DPW Highway Division. Malcolm is a 45 year veteran of the department and wears many hats. One of his main responsibilities is to operate the town's streetsweeper, removing debris and sand to prevent it from getting into the drainage system and eventually into wetlands and waterways. This operation helps keep the town in compliance with the State and Federal gov't for stormwater management. When you see the streetsweeper out on the roadways, it may be Malcom, give him a wave or beep the horn, he will appreciate that you are recognizing his work.



## DPW FUN FACTS

### DID YOU KNOW?

- It took 2,982 tons of asphalt to pave the top surface course on North Street from Pine Street to the Dover Town Line
- All of our DPW staff employees and managers are Heartsaver First Aid CPR AED certified with the American Heart Association



For more information or have questions, please contact our main office at (508) 906-3003 or visit our town website @ [www.town.medfield.net](http://www.town.medfield.net)