

**Sewer Commissioners Meeting
Minutes of Thursday, December 20, 2018
Bourne Community Building
Bourne, MA 02532**

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TA Tom Guerino
ATA Glenn Cannon

Sewer Commissioners

James Potter, Chairman
Jared MacDonald, Vice-Chairman
Judy Froman, Clerk - Excused
Peter Meier
George Slade

Others Present: Zachary Basinski - Bracken Engineering; Savery Avenue Residents: Trish Lubold, Mary Ann Bouldry, Richard Johnson, Brian Cleary, Stephanie Comic, Charles Neff

All agenda items herein may be subject to a vote by or other action of the Board of Sewer Commissioners

Note this meeting is being televised and recorded. If anyone in the audience is recording or videotaping, they need to acknowledge such at this time – Michael Rausch Bourne Enterprise

Meeting Called to Order

Chairman Potter called the meeting to order at 7:00 PM.

1) Public Comment

None requested

2) Approval of minutes: November 26, 2018

Voted Peter Meier moved and seconded by George Slade to approve the minutes from November 26, 2018. Vote 4-0.

3) Savery Ave sewer/septic options update

Tom Guerino explained we have 4 options that the Board requested to explore. The 1st option is to utilize and upgrade the existing disposal field on the Army Corp land. 2nd option is to move the disposal to the Hoxie School site with the combined tank and the pump chamber operation or Hoxie School disposal site with individual tanks and the pump chamber option. 3rd option is individual systems, and if the town could help with that option. Option 4 is municipal sewer, which is long-range long-term.

The Town Administrator said he was instructed to work with Bracken Engineering to bring forward a report on those options. Mr. Basinski and I met on three separate occasions. There are some updates relative to the Army Corps and the Commonwealth. The Board of Health has also

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been interested in this item and have been working on what can be done for the best interest for all parties.

Zac Basinsk, Professional Engineer at Bracken Engineering, briefly went over the 4 options and the pros and cons for each option.

Option 1

Utilize and Upgrade Existing Disposal Field: Perform a repair and upgrade to the existing facilities incorporating an additional septic tank and removal and replacement of the existing leach field.

Option 1 estimate - \$250,000-\$310,000

ADVANTAGE / DISADVANTAGE ANALYSIS

OPTION 1) Utilize and Upgrade Existing Disposal Field

ADVANTAGES	DISADVANTAGES
Less disturbance to existing infrastructure and utilities	Requires easement from ACOE
Gravity System (No pumping required)	Potential for ACOE to request removal of system
Known Soil Conditions	Reduced size of both tank size and disposal field size based on easement configuration
Does not require use of Hoxie School Property	
Does not require licensing from town to utilize road layout	
Least amount of time to permit	
Easement can potentially be renewed for additional time period	

Option 2a

Hoxie School Disposal Site (Combined Tank and Pump Chamber Option): Install a single tank and pump chamber that collects effluent from utilizing the existing collection system. The effluent is then pumped to a disposal field located on the Hoxie School property along Williston Road.

Option 2a estimate - \$497,000-\$620,000

OPTION 2a) Hoxie School Disposal Site (Combined Tank and Pump Chamber Option)

ADVANTAGES	DISADVANTAGES
Removes easement from ACOE	Increased disturbance to existing infrastructure and utilities
Provides system able to accommodate total required flows over Option 1	System requires pumping and pump maintenance
Maintains existing collection system	Encumbers Hoxie School property
Does not require connecting any other properties into system	Disruption to abutters along Savery Ave. and Williston Rd.
	Requires additional soil testing (More than Option 1, less than Option 3)
	Increased annual operation and maintenance costs over Option 1
	License required to install components in road Right of Way
	Additional Easement Documents
	Additional Engineering, Surveying, Recording, and Legal Fees
	Increased time to install / repair
	Increased pumping costs over Option 1
	Removal and restoration of existing disposal field area on ACOE property
	Potential work within private road layouts for utilities
	Unknown soil conditions, evidence of problem soils in surrounding area

Option 2b

Hoxie School Disposal Site (Individual Tank and Pump Chamber Option): Install individual tanks and pump chamber systems in front of each property (in front of the houses or under the road) that connect to a low-pressure force main. The combined tank would be comprised of a 1500-gallon septic tank and 1,000-gallon pump chamber. The individual pumps then serve to pump the affluent through the force main to a disposal field located on the Hoxie School property along Williston Road.

Option 2b estimate - \$620,000-\$775,000

OPTION 2b) Hoxie School Disposal Site (Individual Tank and Pump Chamber Option)

ADVANTAGES	DISADVANTAGES
Removes easement from ACOE	Increased disturbance to existing infrastructure and utilities
Provides system able to accommodate total required flows over Option 1	System requires pumping and pump maintenance
Owners responsible for individual tank and pump maintenance	Encumbers Hoxie School property
Reduced pumping costs for town	Disruption to abutters along Savery Ave. and Williston Rd.
Does not require connecting any other properties into system	Requires additional soil testing (More than Option 1, less than Option 3)
	Increased annual operation and maintenance costs over Option 1
	Multiple licenses for tanks within Right of Way
	Increased number of as-built inspections
	Additional Easement Documents
	Additional Engineering, Surveying, Recording, and Legal Fees
	Increased time to install / repair over Options 1 and 2a
	Re-plumbing of houses and abandonment of existing collection system
	Removal and restoration of existing disposal field area on ACOE property
	Potential work within private road layouts for utilities
	Unknown soil conditions, evidence of problem soils in surrounding area

Option 3

Individual Septic System: Install individual septic systems on or near each of the affected properties. Due to the lot shape, site condition and soil types, the system may potentially need to be partially located within road layout of Savery Avenue on Town of Bourne property. There are a few homes that would not be able to have a septic system on their lot based on the shape of the lot.

Digging down 25 ft and fill with good soil. Some systems will not fit in front of the house because of utilities so it will have to be put in across the road on town land within the right-of-way. This option would need individual licenses and individual perc tests for all the sites. This option assumes you will be removing the whole system off Army Corps land.

Option 3 estimate - \$875,000-1.1 million

OPTION 3) Individual Septic Systems

ADVANTAGES	DISADVANTAGES
Removes easement from ACOE	Increased cost over Options 1, 2a, and 2b
Maintenance and operation cost, responsibility of individuals rather than town	Increased time to design, permit, and install
	Licenses required for any proposed work within road Right of Way
	Not feasible for homes #25, 27, and 38. These will require offsite systems
	Increased soil testing over Options 1, 2a, and 2b
	Increased utility and infrastructure disturbance
	Additional emergency pumping cost
	Re-plumbing of homes, as necessary
	Individual permits and approvals required for each property
	Floor plan preparation for each dwelling
	Additional fees with Board of Health for each property
	Additional Surveying, Engineering, and Permit Preparation costs for required applications and documents
	Potential work within private road layouts for utilities
	Unknown soil conditions, evidence of problem soils in surrounding area

Option 4**Municipal Sewer System**

Install a municipal sewer system that would service the affected properties as well as additional residential and commercial properties in the area east of the Sagamore Bridge and south of Meetinghouse Road. The plant and disposal field would likely need to be completely located on the Hoxie School property. This option would encapsulate about 130 properties.

Option 4 estimate – 13-16 million dollars

OPTION 4) Municipal Sewer System

ADVANTAGES	DISADVANTAGES
Enhanced Environmental Project	Extreme cost over other options
	Increased time to design and permit
	Requires all of Hoxie School property for treatment plant and disposal field. (Possibly requires additional area)
	Would still require temporary repair to existing system
	Disturbance to surrounding area for plant construction and utility installation
	Increased maintenance costs for town
	Potential for 3 to 4 new pump stations in sewer area
	Work within private road layouts for utilities
	Unknown soil conditions, evidence of problem soils in surrounding area

COST ANALYSIS

*NOTE: Costs are estimated based on standard industry figures and can fluctuate depending on external and unknown factors

	ESTIMATED COST	NUMBER OF PROPERTIES SERVICED	UPGRADE COST PER PROPERTY
OPTION 1	\$250,000-\$310,000	14	\$17,900-\$22,500
OPTION 2a	\$497,500-\$620,000	14	\$35,500-\$44,500
OPTION 2b	\$620,000-\$775,000	14	\$44,500-\$55,500
OPTION 3	\$875,000-\$1,100,000	14	\$62,500-\$79,000
OPTION 4	\$13,400,000-\$16,400,000	130±	\$100,000-\$126,000

COSTS EXCLUDED:

- Mobilization
- Environmental Protection
- Traffic/Police Details
- Protection/Repair/Relocation of Utilities
- Sheet piling
- Dewatering
- Driveway Repair
- Demobilization
- Red Line Drawings

Upgrade cost per property is based on the estimate and broken down on which users would be taking advantage of the total cost.

Option 1 – splitting the 250,000-\$310,000 across 14 homes – the upgrade cost per property would be \$18,000-\$22,000

Option 2a – splitting the \$497,000-\$620,000 across 14 homes – the upgrade cost per property would be \$36,000-\$45,000

Option 2b – splitting the \$620,000-\$775,000 across 14 homes – the upgrade cost per property would be \$45,000-\$55,000

Option 3 – splitting the \$875,000-1.1 million across 14 homes – the upgrade cost per property would be \$62,000-\$80,000

Tom Guerino said the Army Corps granted another 50-year easement. The Board of Sewer Commissioners and the Board of Health will have to work together on this. As of yesterday, December 19th, the town and rate payers have spent over \$26,000 in pumping.

James Potter said the Board of Sewer Commissioners is looking at considering the 15 years of credit that the homeowners have paid into the system that has failed and that amount would come off of the cost of the cost per property for Options 1-3. Jared MacDonald said with the new system we would have to set a new policy and rates to maintain the system over the years.

Brian Cleary, 28 Savery Ave said he would like to see written in that if the system fails within the working life of the system it isn't the residents' responsibility, it is the installer's responsibility or the town's responsibility. Mr. Potter said system may have failed because of bad materials that were used, the pumps running all the time. The new proposed system is different from what is currently being used. Mr. MacDonald said this is a shared system and it may be because someone that is using the system could destroy it by misusing the system, and we can't guarantee with a shared system that everyone is using it properly.

Tom Guerino guesstimate the deduction/credit on the cost per property on each option and what the total cost for the options would be.

Option 1 - \$9,285-13,500

Option 2a - 26,968-35,714

Option 2b - 35,700 - 46,800

Option 3 -43,600-70,000

Zac Basinsk explained the difference between the old system and the new system.

Tom Guerino suggested to look at option 1 at the current location for a (15-25 year) short term fix, while the Town Administration in conjunction with the Health Dept, Board of Health, and Sewer Commissioners work together on a long-term solution. Mr. MacDonald suggested also looking at a separate plan and policy for the folks that well be on this system.

Trish Lubold, 21 Savery Ave, questioned the timeframe. James potter explained what steps have to be taken, option 1 would be the quickest. Mr. Guerino said about 3 months to get the shovel in the ground.

Voted Jared MacDonald moved and seconded by Peter Meier to vote on option 1 contingent that the documentation that is needed, and the upcoming policies and procedures to segregate this system, as well as specified policies for the homes that will be on this system be done in the future. Vote 4-0.

Tom Guerino suggested the Board of Sewer Commissioners vote to work closely with the Board of Health as it relates to the permitting and the requirements that they may have in order for this particular option to move forward.

Voted Jared MacDonald moved and seconded by Peter Meier to have the Board of Sewer Commissioners work closely with the Board of Health as it relates to the permitting and the requirements that they may have in order for this particular option to move forward. Vote 4-0.

Tom Guerino will send a letter to all the homes on Savery Ave. stating the Board of Sewer Commissioners choice for what option they have chosen.

Trish Lubold, suggested to educate the present owners and future owners on what they can and can't put down their drains, and what they can and can't put in the toilets. Include in that the policy and diligent maintenance from the town. Also to protect it and barrier it off so tourists don't travel over the system.

4) Board of Sewer Commissioners Sewer Regulations and Policies discussion re: Evaluating existing policy and creating a new set for 2019

James Potter spoke about looking at the policies that already exist, updating the policies, and creating new policies/regulations for 2019. He also spoke about looking at the Enterprise Fund and a separate rate system for this type of shared system.

5) Revote 2nd half sewer rates [January 1, 2019 – June 30, 2019] for FY2019

Tom Guerino said the Board set a rate back in August of \$803 dollars contingent on the town meeting vote. We were going to use 25,000 to help offset the fees; that didn't happen. That was withdraw from the town meeting. It isn't clear if the vote should be \$826. We need a record of a vote that the rate for the second half of the year is \$826 fee going forward on the January bill.

Voted Jared MacDonald moved and seconded by George Slade to approve the \$826 as the new rate. Vote: 4-0

6) Adjourn

Voted Peter Meier moved and seconded by Jared MacDonald to adjourn.

Vote 4-0.

Respectfully submitted – Carole Ellis, secretary.