TOWNSEND WATER DEPARTMENT



540 Main Street West Townsend, Massachusetts 01474

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Michael MacEachern, Chairman

Nathan Mattila, Vice-Chairman

Lance Lewand, Clerk

(978) 597-2212 Fax (978) 597-5561

Paul L. Rafuse, Water Superintendent

WATER COMMISSIONERS MEETING MINUTES February 13, 2017 - 5:30P.M.

Water Department 540 Main Street, Meeting Room

I. PRELIMINARIES:

- 1.1 MM called the meeting to order at 5:35p.m., 540 Main Street.
- 1.2 Roll call. Showed Members present Michael MacEachern (MM), Nathan Mattila (NM) and Lance Lewand, (LL). Guest Present: Gary Amadon, 5 Wheeler Road, Paul Rafuse and Brenda Boudreau
- 1.3 MM announced that the meeting is being tape recorded.
- 1.4 Chairman's additions or deletions. None
- 1.5 Review/Approve meeting minutes of December 12, 2016 and January 9, 2017. NM made a motion to accept the meeting minutes of December 12, 2016 and January 9, 2017. MM seconded. Unanimous vote.
- 1.6 Review correspondence. None

II. APPOINTMENTS:

5:45PM Gary Amadon RE: To review and sign agreement from town counsel. (See 3.1)

III. MEETING BUSINESS:

- 3.1 Review draft agreement changes for town counsel review. RE: Amadon's water installation. The Board and Mr. Amadon reviewed the changes to the agreement that had been discussed at the previous meeting. Gary asked about the estimated cost and the list of specifications. Gary and the board signed the agreement provided from town counsel.
- 3.2 Discuss/Review/Approve Proposal for the Replacement of the CUE Drive or Control Panel to the booster pumps at the West Meadow Rd. Booster Station. Paul provided the Board with an estimate to repair the current panel at the West Meadow booster station not to exceed \$5,747.00. Or the other estimate is for a new panel not to exceed \$11,204.00. Paul suggested to replace the new panel rather than repair. LL made a motion to approve the full panel replacement, provided the superintendent gets the most qualified bid to replace the pressure control panel at the West Meadow booster station. NM seconded. Unanimous vote.
- 3.3 Discuss/Review/Approve Contract for the Fitchburg Road Tank Rehabilitation Project. The board reviewed the two options available one is to exterior overcoat in the amount of \$500,000.00 or the complete rehab of the interior and exterior coating which includes sandblasting that comes with a fifteen year warranty but is expected to last 20 to 25 years for the cost of \$690,000.00. LL made a motion to proceed with the bid process for both options. NM seconded. Unanimous vote.
- 3.4 Abate account # 60429 \$ 153.10. RE: Acct was made inactive in error. Balance was a past FY bill. NM made a motion to abate acct#60429, \$153.10 due to error. MM seconded. Unanimous vote.
- 3.5 Adjust acct # 60272 \$2.36. Customer mailed water bill to taxes in error. NM made a motion to approve adjustment to account # 60272, \$2.36. MM seconded. Unanimous vote.

IV. COMMISSIONERS UPDATES AND REPORTS.

4.1 LL stated that he would like to review the acts of 1920 to look at the division of power between the BOWC, and TA and compose a letter for the board to review at the next meeting. MM stated that perhaps he should speak with John Barrett from the cemetery department, he has been doing some research on his own and may be able to help.

V. WATER SUPERINTENDENTS UPDATES AND REPORTS.

- 5.1 Status of Red Flag Complaint regarding scrap meters. Paul presented the board with a letter he composed requesting to participate with the meeting between the TA and the auditor. The Board requested that one of the members be present at the meeting.
- 5.2 Main St. Station 50HP Pump. Paul reported ongoing issues with the Main Street pump as early as last summer. The current part no longer meets the lead requirements. Because of this we are in the process of getting a replacement. Paul said a new pump should be around \$10,000 without labor but will be sent out to bid.

VI. OFFICE UPDATES AND REPORTS.

- 6.1 The Board reviewed and Signed Bills Payable Warrants.
- 6.3The Board reviewed and signed Schedule of Bills Receivable report.

VII. ADJOURNMENT:

MM made a motion to review reports and sign bill payable warrants out of session. NM seconded. Unanimous vote. MM adjourned the meeting at 6:55 P.M.

Respectfully submitted,

Brenda Boudreau

TOWNSEND WATER DEPARTMENT



540 Main Street West Townsend, Massachusetts 01474

Michael MacEachern, Chairman

Nathan Mattila, Vice-Chairman

Lance Lewand, Clerk

Paul L. Rafuse, Water Superintendent (978) 597-2212 Fax (978) 597-5561

WATER COMMISSIONERS MEETING MINUTES February 13, 2017 - 5:30P.M.

Water Department 540 Main Street, Meeting Room

I. PRELIMINARIES:

- 1.1 MM called the meeting to order at 5:30p.m., 540 Main Street.
- 1.2 Roll call.
- 1.3 Announce that the meeting is being tape recorded.
- 1.4 Chairman's additions or deletions.
- 1.5 Review/Approve meeting minutes of December 12, 2016 and January 9, 2017. (SF)
- 1.6 Review correspondence.

II. APPOINTMENTS:

5:45PM Gary Amadon RE: To review and sign agreement from town counsel.

III. MEETING BUSINESS:

- 3.1 Review draft agreement changes for town counsel review. RE: Amadon's water installation.
- 3.2 Discuss/Review/Approve Proposal for the Replacement of the CUE Drive or Control Panel to the booster pumps at the West Meadow Rd. Booster Station.
- 3.3 Discuss/Review/Approve Contract for the Fitchburg Road Tank Rehabilitation Project.
- 3.4 Abate account # 60429 \$ 153.10. RE: Acct was made inactive in error. Balance was a past FY bill. (SF)
- 3.5 Adjust acct # 60272 \$2.36. Customer mailed water bill to taxes in error. (SF)

IV. COMMISSIONERS UPDATES AND REPORTS.

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V. WATER SUPERINTENDENTS UPDATES AND REPORTS.

- 5.1 Status of Red Flag Complaint regarding scrap meters.
- 5.2 Main St. Station 50HP Pump

VI. OFFICE UPDATES AND REPORTS.

- 6.1 Review and Sign Bills Payable Warrants.
- 6.3 Review and sign Schedule of Bills Receivable report (SF)

** (SF) signature folder

VII. ADJOURNMENT:

WATER DEPARTMENT MEETING

DATE: February 13, 2017

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TOWN OF TOWNSEND WATER SERVICE INSTALLATION AGREEMENT 5 WHEELER ROAD

This Water Service Installation Agreement (the "Agreement") is entered into this 13 th day of February 2017, by and between the Town of Townsend, through its Board of Water Commissioners (the "Town") and Gary and Kathleen Amadon, 5 Wheeler Road, West Townsend, Massachusetts (the "Owners), collectively referred to as the "Parties".

WHEREAS, the "Owners" are the owners as tenants by the entireties of property located at 5 Wheeler Road, Townsend, Massachusetts (the "Property"); and

WHEREAS, the Owners have requested an extension of the existing Town water system to service the Property; and

WHEREAS, although the Town is agreeable to providing such extension of Town Water System to the Property, due to the Property's unique location and topography, the Town cannot guarantee that it will be able to provide adequate water pressure at all times;

WHEREAS, the Owners are willing to assume the risk that due to the Property's unique location and topography that there may be a lack of adequate water pressure at times; and

WHEREAS, the Owners shall be solely responsible for the survey, design and construction of the Water Service Installation and for all costs related thereto and the Owners will indemnify and hold the Town harmless from any liability that may arise as a result of the water service installation.

NOW THEREFORE, in consideration of the covenants and promises contained herein and for other consideration, the receipt and sufficiency of which are hereby acknowledged, the Town and the Owners agree as follows:

1. Water Service Installation

The Owners shall install a service from the Town-owned Water System from the curb stop on Wheeler Road, to a point just inside the cellar wall of the Owners' home in order to connect to the Owner's internal plumbing. The size of which shall be determined by the Owners, subject to the Town's approval as set forth in section 3 hereof. In addition to such other terms and conditions that the Town deems necessary for approval of the installation, if the length of the water service exceeds 475 feet by design or during construction the Owners shall install a meter pit 5 feet beyond the curb stop.

2. Prosecution of the Work

The Owners shall conduct work in connection with the design and construction of the Water Service Installation (the "Work") through the services of duly qualified engineers, designers, contractors and subcontractors, provided, however, that in conducting the Work the Owners shall be responsible for obtaining all necessary permits, approvals and rights in real property as may be required by federal, state and local laws, rules and regulations, and shall maintain the same in full force and effect throughout the entire term of this Agreement. This Agreement does not constitute a permit, and shall not in any way relieve the Owners of their obligation to obtain any permits and comply with the requirements of any applicable laws relative to the Work.

The Work shall be done in a good and workmanlike manner, and the Owners and their contractors shall take all commercially and reasonably necessary measures to minimize any damage, disruption or inconvenience caused by the Work and will make adequate provision for the safety and convenience of all persons affected thereby.

The Owners shall be solely responsible for all license and permit fees associated with the Work.

3. Construction/Payment of Construction Costs

The Parties hereto acknowledge that survey, design and construction of the Water Service Installation and all costs related thereto are the sole and complete responsibility of the Owners. The Town shall not be responsible to any engineer, designer, contractor, subcontractor or agent thereof hired by the Owners to perform the work. Further, the Owners agree to construct the Water Service Installation in accordance with design, plans and specifications approved by the Town and the permit/license requirements of applicable federal, state and local laws, rules and regulations.

The Owners shall provide the Town with all specifications and plans for the Work for approval by the Water Commissioners prior to the commencement of construction. Upon completion of construction, the Work shall be subject to final inspection and the Owners shall provide the Town with an as-built plan prior to the commencement of water service.

The Parties agree that upon the completion of the Work, all the maintenance, repairs and associated costs of the Water Service from the curb stop to the point of connection to the owner's internal plumbing shall be the responsibility of the Owners.

4. Acceptance of Water and Payment of Fees

Upon completion of the Work, the Town shall provide the Owners with a supply of potable water subject to payment of applicable connection and usage fees and in accordance with the terms and conditions set forth in the Townsend Water Department Rules and Regulations.

Notwithstanding any provision of this Agreement or any applicable law or regulation to the contrary, the Owners acknowledge and agree that, due to the unique location and topography of the property, the Town cannot guarantee that it will be able to provide adequate water pressure at all times and the owners hereby acknowledge that the Town's inability to supply adequate pressure at all times may expose them to risk of injury or loss for which the Town will not be responsible. The Owners hereby accept the Town's water service with full knowledge of the potential risks and hazards that may result from the Town's inability to provide adequate pressure and they accept the Town's service, as is, without any warranties of any kind, express or implied, as to the suitability of the water for any intended use by the Owners.

5. <u>Indemnification and Release</u>

The Owners are accepting the Town's water service at their own risk and in consideration of the Town's agreement to extend its water service and for other good and valuable consideration hereby acknowledged, the Owners do hereby agree on behalf of themselves, their heirs, and personal representatives, to forever RELEASE the Town and its successors, assigns, employees, agents, staff, representatives, officers, volunteers, or contractors (the "Releasees"), from any and all claims, actions, rights of action and causes of action, damages, costs, loss of services, expenses, compensation and attorneys' fees that may arise, directly or indirectly, as the result of the Work and/or their acceptance of Town water in accordance with the terms of this Agreement, including but not limited to claims for injury or death to persons or loss or damage to real or personal property.

The Owners agree to INDEMNIFY, DEFEND AND HOLD HARMLESS the Town, its employees, agents, staff, representatives, officers, volunteers, or contractors, against any claims, demands, losses, costs, expenses (including attorneys' fees) damages, liabilities and causes of action whatsoever by any person arising out of or related to this Agreement, including, but not limited to, claims for injury or death to persons or loss or damage to any property occurring as a result of or in any way related to the Work or the provision of water at low pressure, and also including, but not limited to, any claims, demands, losses, costs, damages, liabilities and causes of action whatsoever as a result of the discharge, release or threatened release of oil, asbestos urea formaldehyde foam insulation, wastewater, sewage, or any other hazardous material, hazardous, chemical, hazardous waste, or hazardous substance, as those terms are defined by applicable law, whenever any such release or threatened release may be discovered.

The obligations of indemnification and release as stated herein shall survive expiration of this Agreement.

6. Insurance

The Owners shall ensure that any Contractor hired to perform the Work shall maintain in force, at its expense, insurance coverage with minimum limits as follows:

a. Commercial General Liability to be written on a "primary and non-contributory basis" favoring the Town in the following amounts:

\$2,000,000 Products/Completed Operations Aggregate Limit, which shall be maintained for up to 3 years after the termination or expiration of the contract.

\$2,000,000 General Aggregate (Other Than Products / Completed Operations)

\$1,000,000 on account of one occurrence and

\$1,000,000 Personal and Advertising Injury

b. Automobile Liability (Owned, Non-Owned and Hired Automobiles and Vehicles):

\$1,000,000 each accident (Combined Single Limit)

c. Employer's Liability:

\$500,000 Each Accident \$500,000 Each Employee Injury by Disease \$500,000 Aggregate for Injury by Disease

d. Worker's Compensation Insurance in the following amounts:
-as required by the General Laws of the Commonwealth of Massachusetts.

The insurance certificate will be supplemented by a notice of cancellation endorsement that will provide the Town thirty (30) days written notice prior to the effective date of such cancellation and any failure of which by the Contractor will be deemed a material breach of this Agreement pursuant to which the Town may terminate this Agreement. A certificate from the Contractor's insurance carrier showing at least the coverage and limits of liability specified above and expiration date shall be filed with the Town before operations are begun. The Contractor shall make no claims against the Town for any injury to any of his officers or employees or for damage to its trucks or equipment arising out of work contemplated by this Agreement. Failure to comply with the requirements of this Agreement shall be cause to terminate this Agreement by the Town.

All insurance required by this Agreement shall be obtained from insurance companies that are duly licensed or authorized to conduct business in the Commonwealth of Massachusetts to issue insurance policies for the limits and coverage's so required. The Town shall be named as additional insured parties on all policies issued hereunder, except Worker's Compensation via blanket additional insured endorsement.

7. Amendment

No provision of this Agreement may be amended, modified, waived, discharged or terminated orally or by any other means except by written instrument signed by all parties.

8. Successors and assigns

This Agreement shall be binding upon and inure to the benefit of all the parties hereto and their respective successors and assigns.

9. Governing Law

This Agreement shall be subject to the laws of the Commonwealth of Massachusetts, and any dispute arising hereunder which cannot be resolved between the parties shall be resolved in a court of competent jurisdiction in Massachusetts.

10. Notices

Notices will be deemed properly directed and delivered on the day of delivery, if delivered in person or by a nationally recognized overnight mail service as follows:

As to the Town:

Superintendent

Townsend Water Department

540 Main Street

Townsend, MA 01474

As to the Owners:

Gary and Kathleen Amadon

5 Wheeler Road

Townsend, MA 01474

11. Entire Agreement

This Agreement, including all documents incorporated herein by reference, constitutes the entire integrated agreement between the parties with respect to the matters described. This Agreement supersedes all prior agreements, negotiations and representations, either written or oral, and it shall not be modified or amended except by a written document executed by the parties hereto.

12. <u>Severability</u>

If any provision of this Agreement is declared to be illegal, unenforceable, or void, then both parties shall be relieved of all obligations under that provision provided, however, that the remainder of the Agreement shall be enforced to its fullest extent.

Executed under seal as of day and year first above written.

GARY AMADON AND KATHLEEN AMADON

Name: Gary Amadon

Ву:_____

Name: Kathleen Amadon

TOWNSEND BOARD OF

WATER COMMISSIONERS

By.

By XOne

567167

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WHEREAS, although the Town is agreeable to providing such extension of Town Water System to the Property, due to the Property's unique location and topography, the Town cannot guarantee that it will be able to provide adequate water pressure at all times;

WHEREAS, the Owners are willing to assume the risk that due to the Property's unique location and topography that there may be a lack of adequate water pressure at times; and

WHEREAS, the Owners shall be solely responsible for the survey, design and construction of the Water Service Installation and for all costs related thereto and the Owners will indemnify and hold the Town harmless from any liability that may arise as a result of the water service installation.

NOW THEREFORE, in consideration of the covenants and promises contained herein and for other consideration, the receipt and sufficiency of which are hereby acknowledged, the Town and the Owners agree as follows:

Water Service Installation

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Notwithstanding any provision of this Agreement or any applicable law or regulation to the contrary, the Owners acknowledge and agree that, due to the unique location and topography of the property, the Town cannot guarantee that it will be able to provide adequate water pressure at all times and the owners hereby acknowledge that the Town's inability to supply adequate pressure at all times may expose them to risk of injury or loss for which the Town will not be responsible. The Owners hereby accept the Town's water service with full knowledge of the potential risks and hazards that may result from the Town's inability to provide adequate pressure and they accept the Town's service, as is, without any warranties of any kind, express or implied, as to the suitability of the water for any intended use by the Owners.

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The Owners agree to INDEMNIFY, DEFEND AND HOLD HARMLESS the Town, its employees, agents, staff, representatives, officers, volunteers, or contractors, against any claims, demands, losses, costs, expenses (including attorneys' fees) damages, liabilities and causes of action whatsoever by any person arising out of or related to this Agreement, including, but not limited to, claims for injury or death to persons or loss or damage to any property occurring as a result of or in any way related to the Work or the provision of water at low pressure, and also including, but not limited to, any claims, demands, losses, costs, damages, liabilities and causes of action whatsoever as a result of the discharge, release or threatened release of oil, asbestos urea formaldehyde foam insulation, wastewater, sewage, or any other hazardous material, hazardous, chemical, hazardous waste, or hazardous substance, as those terms are defined by applicable law, whenever any such release or threatened release may be discovered.

The obligations of indemnification and release as stated herein shall survive expiration of this Agreement.

6. Insurance

The Owners shall ensure that any Contractor hired to perform the Work shall maintain in force, at its expense, insurance coverage with minimum limits as follows:

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All insurance required by this Agreement shall be obtained from insurance companies that are duly licensed or authorized to conduct business in the Commonwealth of Massachusetts to issue insurance policies for the limits and coverage's so required. The Town shall be named as additional insured parties on all policies issued hereunder, except Worker's Compensation via blanket additional insured endorsement.

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\$5,000,000 Products and Completed Operations ¶
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Deleted: The certificate of insurance shall be delivered to the Town at least fifteen (15) days prior to July 1 of each year that this Agreement is in force and effect

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7. Amendment

No provision of this Agreement may be amended, modified, waived, discharged or terminated orally or by any other means except by written instrument signed by all parties.

8. Successors and assigns

This Agreement shall be binding upon and inure to the benefit of all the parties hereto and their respective successors and assigns.

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Superintendent

Townsend Water Department

540 Main Street Townsend, MA 01474

As to the Owners:

Gary and Kathleen Amadon

5 Wheeler Road Townsend, MA 01474

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If any provision of this Agreement is declared to be illegal, unenforceable, or void, then both parties shall be relieved of all obligations under that provision provided, however, that the remainder of the Agreement shall be enforced to its fullest extent.

Executed under seal as of day and year first above written.

GARY AMADON AND KATHLEEN AMADON

by:	
Name: Gary Amadon	
By:Name: Kathleen Amadon	
Name: Kathleen Amadon	
TOWNSEND BOARD OF	
WATER COMMISSIONERS	
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From: Sent: To: Subject:

RE: BOWC meeting

Hi Gary,

- I'm assuming the Townsend Water Dept. supplies and installs the meter, correct? Yes.

- And, does the Townsend Water Dept. own and assume maintenance responsibility of the meter? Under Section 3 of the Water Department Rules & Reg's "METERS" specifically 3.1 and 3.4 (see below) but states in summary that once installed that the water meter becomes the property of the TWD and the TWD will be responsible for replacing the meter at no cost to the customer due to age or failure to accurately record water usage under normal conditions. However, the home owner is responsible to protect the meter from any damage due to the negligence of the home owner/water taker such as but, not limited to, freezing, removal, meter tampering etc. The home owner shall be responsible for the cost for the repair or replacement of the meter caused by negligence.
 - 3.1 All services shall be metered. Meters will be furnished, set and renewed by the Water Department; provided, however, that any meter injured through the negligence of the water taker shall be repaired at the water taker's expense. The water taker is responsible for protecting the meter from frost damage.
 - 3.4 All meters installed become the property of the Water Department, and all repairs thereto will be made by the Water Department If a meter installed on the customer's property is stolen damaged by freezing fire or otherwise cost of repairs or replacement will be charge to the customer.
- Section 3 states "The owners shall provide the Town with all specifications and plans for the Work for approval by the Water Commissioners prior to the commencement of construction". I did give Brenda a plan of the site and the proposed route of the water line; are you going to require more? Not as far as plans prior to the installation however, under Section 2 SERVICE CONNECTIONS (2.4) (see below), You will be required to provide to the TWD a clear and legible asbuilt of the installation/location of the service line with ties to key points as described in Section 2.
 - 2.4 Installation and repairs between the curbstop and the inlet side of the water meter can be made by the Water Department or an outside contractor. The customer will be charged by the Water Department for

equipment, labor and materials used or provided to the contractor. Work performed and materials used by outside contractors shall strictly conform to the Townsend Water Department specifications. All service installations whether new, replaced or repaired shall be inspected by a Water Department Technician or

Superintendent prior to backfilling. Outside contractors installing or replacing services shall provide a clear and, legible AS BUILT drawing illustrating the location of the following:

- Curbstop
- Connectors
- Meter Pits
- Size of service line and sleeve
- Obstruction/s causing an alternate route of the service
- Location where the service enters the building
 All AS BUILT drawings shall have a minimum of two (2) ties from permanent structures (i.e. building corners, hydrants, gate covers, manhole covers, catch basins and, property bound posts. See Attachment A, example of Asbuilt Drawing.

If you haven't already, we will provide you with a complete set of our Rules and Regulations.

If you have any other questions please don't hesitate to call or email myself or Brenda.

Thank you



4 New Park Road East Windsor, CT 06088 860-243-1493 860-528-8057 FAX www.blakeequip.com

Peak Performance Solutions

December 8, 2016

Townsend Water Department Attn: Paul Rafuse, Superintendent 540 Main Street West Townsend, MA 01474

: ESTIMATION: QUOTE: ESTIMATION:

Project Name: New Panel

Project #: 9109494

Duplex Control Panel with constant pressure controller.

(2)- 20HP VFD

(1)- 7 ½HP Jockey Pump

With Alarm outputs/scada (details needed when ordered) Installed with Startup.

Please Note: *Energy saving efficiency upgrade*

Not to exceed a total of \$11,204.00, plus tax and freight without further approval.

Note: 4 Week Lead Time.

This offer is extended for 30 days. After which it will be reevaluated. Please sign below if you are in agreement.

Sincerely,	Signed
Mill	Print
•	Date
Russ Roly Field Service Supervisor	Phone Number
	PO#
	Email





4 New Park Road East Windsor, CT 06088 860-243-1493 860-528-8057 FAX www.blakeequip.com

Peak Performance Solutions

December 8, 2016

Townsend Water Department Attn: Paul Rafuse, Superintendent 540 Main Street West Townsend, MA 01474

: ESTIMATION: QUOTE: ESTIMATION:

Project Name: Repair Current Panel

Project #: 9109494

Replacement CUE Drive (retro-fit)

Program and Install Test Run

Not to exceed a total of \$5,747.00, plus tax and freight without further approval.

Note: 2 Week Lead Time. (From 12/12/2016)

This offer is extended for 30 days. After which it will be reevaluated. Please sign below if you are in agreement.

Sincerely,	Signed
Man	Print
	Date
tuss Roly ield Service Supervisor	Phone Number
	PO#
	Email





DUPLEX CONTROL PANEL WITH CONSTANT PRESSURE CONTROLLER. QUOTE

ESTIMATE: \$11,204.00



B

THIS IS THE CUE DRIVE TO BE RETRO-FITTED FOR \$5,747.00.





T-0354-1 February 1, 2017

Paul Rafuse, Superintendent Townsend Water Department 540 Main Street West Townsend, MA 01474

Fitchburg Road Water Storage Tank Rehabilitation Re: **Budget Comparison for Coating Options**

Dear Mr. Rafuse:

During our kick-off meeting and site visit on December 2, 2016, we invited the manufacturer's representative from Tnemec (Michael Woessner) to inspect the condition of the existing exterior coating system at the Fitchburg Road Tank. Tnemec products are routinely used in the protective coating systems for new and rehabilitations of existing steel water storage tanks. Tighe & Bond typically lists Tnemec as an approved manufacturer in our technical specifications for these types of projects.

The two options being considered for coating system for the Fitchburg Road Tank include a full rehabilitation of the interior and exterior coatings, or an application of an overcoat on the tank exterior and replacement of the interior coating system.

Based on the recommendations from the Utility Services report dated October 27, 2014 and the visual inspection on December 2nd by Tnemec, it appears that an exterior overcoat system could be applied and should be compared to a full rehabilitation of the interior and exterior coating systems. This option would include completely removing the existing coating systems before application of the new coating systems.

In order to determine the most appropriate and compatible exterior overcoat system for the Fitchburg Road Tank, Tnemec collected paint samples for an analysis of the products that make up the existing exterior coating system. Based on the results of the analysis, Tnemec is recommending their Series 118 based overcoat system. Surface preparation will require a 5,000 psi power wash of the exterior in order to clean the surfaces prior to application of the new coatings. The results of this analysis are attached.

Using the specifications for the recommended overcoat system and the recommended replacement coating system which will require complete removal of the existing system, we coordinated with two experienced coating applicators to develop budgets for each coating system for comparison. Since the Utility Services report also indicated the interior surfaces of the tank needed to be rehabilitated, the budgets include the interior and exterior surfaces of the tank. When restoring the interior surfaces of a water storage tank, the only option is full removal of the existing system and application of a new coating system. The detailed manufacturer's specifications for the two proposed exterior coating options and the interior coating system have been attached for your reference. The budget estimates also include replacement of the vault hatch and overflow pipe. We have also included an allowance for construction administration services along with a construction contingency.

The following Table 1 provides a summary of our opinion of probable construction costs for each option.

Table 1 - Coating System Budget Options

Fitchburg Road Storage Tank

Description	Budget ¹
Exterior Overcoat and Replace Interior Coating	
Opinion of Probable Construction Cost	\$400,000
Engineering and Construction Contingencies (25%)	\$100,000
Total Budget:	\$500,000

Complete Rehabilitation of Interior and Exterior Coatings

Total Budget:	\$690,000
Engineering and Construction Contingencies (25%)	\$140,000
Opinion of Probable Construction Cost	\$550,000

¹ Budget costs do not include any other repairs or modifications to the tank other than what is noted herein.

As shown in Table 1, complete rehabilitation of the interior and exterior coatings will have a much higher cost than the estimate cost for the overcoat of the exterior coating. If the exterior overcoat option is completed, the work and coating system adhesion will have with a standard 1-year warranty. This coating system is expected to last at least 15 years. After this period, the tank will most likely need to be completely rehabilitated. If the full rehabilitation option is selected, the new coating system will have a 15-year warranty and is expected to last at least 20 to 30 years before an overcoat or rehabilitation will be needed.

Based on the cost opinions we have developed, the difference in warranty periods, and anticipated life expectancies of each coating system, we recommend the Water Department consider a full rehabilitation of the interior and exterior coating systems. The estimated cost for this work approximately \$690,000.

We trust that the information provided herein will be adequate for the Water Department to decide which option to select for this project. Once the coating option is confirmed, we will complete the technical specifications that will be included in the bid documents. If you have any questions, or would like to meet to discuss this, please contact our office.

Very truly yours,

TIGHE & BOND, INC.

Louis A. Soracco, P.E.

Project Manager

Enclosures

Results from paint chip analysis

Coating system details

Thomas J. Mahanna, P.E. Vice President

J:\T\10354 Townsend Water Department\1 - Litchburg Road Tank\Task 2\Litchburg Road Tank Coating Option Budget Comparison.docx

THEMEC COMPANY INCORPORATED

101 WEST 26TH AVENUE NORTH KANSAS CITY, MO 64116 TEL: 816-474-3400 FAX: 816-326-4332 WWW.INEMEC.COM



Date:

December 16, 2016

To:

Michael Woessner (081)

From:

Tim Dve

Subject:

Fitchburg Road Water Tank - Townsend, MA

Activity:

Overcoat Analysis

Customer:

Tighe and Bond - Worcester, MA

Tnemec Technical Service Preliminary Research Summary

PURPOSE / BACKGROUND INFORMATION

You have submitted a sample that is reported to represent an exterior coating on the Subject steel tank. You have requested generic identification and dry film thickness (DFT) of all layers for the submitted sample.

ANALYSES

Computer aided microscopic examination and FTIR spectral analysis was performed on the submitted sample.

- The red back layer of the sample appears to be alkyd with an average 0.7 mils DFT
- The white second layer of the sample appears to be alkyd with an average 3.4 mils DFT.
- The blue front layer of the sample appears to be alkyd with an average 2.9 mils DFT.

If other information becomes available, or if other forms of assistance are required, please let us know.

Best Regards,

Tim Dye

Product Resource Representative

Tnemec Company, Inc.



MEMORANDUM

TO:

Lou Soracco

Tighe and Bond

FROM:

Michael Woessner

DATE:

December 9, 2016

SUBJECT:

Townsend MA Water Tank Exterior Coating System Options

CC:

File

Hi Lou,

Per our meeting last week please find the following systems and options for the repainting of the subject project. As you know there are options so I decided to try to keep it somewhat simple listing the two most common exterior options. Please let me know what further information you might like to see to help aid in your understanding of the various types of coatings that are available. Thank you for your consideration. We look forward to working with you soon.

Respectfully Submitted,

Michael Woessner

Tighe and Bond Water Storage Tank Options December 9, 2016

Exterior System: (Overcoat Option)

SURFACE PREPARATION:

All previously coated surfaces scheduled for painting shall initially be power washed in accordance with SSPC-SP12 (LP WC) WJ-4 Condition (5,000 psi), washing system containing a suitable solution of an environmentally approved cleaning agent to remove all soluble and insoluble surface contamination, including all chalk and mildew and be equipped with an oscillating tip. Same surfaces shall be clean water rinsed to remove all cleaning residue. Following cleaning procedures, hand and power tool clean any areas of bare metal in accordance with SSPC-SP3 Power Tool Cleaning, ensuring that any remaining lifted edges are feather back tight. Cleaned areas of bare metal shall be spot primed on the same day.

COATING SCHEDULE: (OPTION A)

Spot Prime Coat: Shall be one spot coat of Tnemec Series 118 Uni-Bond Mastic applied at 6.0-8.0 mils DFT.

Intermediate Coat: Shall be one full coat of Tnemec Series 118 Uni-Bond Mastic applied at 6.0-8.0 mils DFT.

Finish Coat: Shall be one full coat of Tnemec Series 73 Endura-Shield applied at 2.0-3.0 mils DFT.

Exterior System: (FULL REMOVAL)

SURFACE PREPARATION:

All previously painted surfaces shall be cleaned in accordance with SSPC-SP-10 Near-White Metal Blast Cleaning Standard to achieve a uniform anchor profile of 1.5-2.5 mils.

COATING SCHEDULE:

Prime Coat: Shall be one full coat of Tnemec Series 94H20 Hydro-Zinc applied at 2.5-3.5 mils DFT.

Intermediate Coat: Shall be one full coat of Tnemec Series 73 Endura-Shield applied at 2.5–5.0 mils DFT.

Finish Coat: Shall be one full coat of Tnemec Series 701 HydroFlon applied at 2.0-3.0 mils DFT.

Riveted Steel Water Tank Coatings Schedule Interior and Exterior Surfaces 2016

Field Repaint Work- Maintenance Painting

Interior: (Zinc, High-Build 100% Solids Polyurethane system)

Surface Preparation> SSPC-SP-10 Near-White Standard, 2.5-4.0 mil profile.

1st Coat> Tnemec Series 94-H20 Hydro-Zinc @ 2.5-4.0 mils dry.

Themec Series 215 Surfacing Epoxy, (as required for pits)

and to fill gaps at rivet heads and lap seams)

Stripe Coat> Apply ONE "stripe-coat" of Series 20HS Pota Pox at all

interior weld seams and leading edges @ 2.5-3.0 mils dry.

Finish Coat, (walls/floor)> Apply ONE full finish coat of Series 406 Elasto-Shield

polyurethane hybrid, WH06 White @ 40-60.0 mils dry to

all water bearing surfaces.

Finish Coat, (ceiling)> For undersides of roof plates and supporting structures,

apply TWO full finish coats of Series 20HS, or FC20HS,

Pota-Pox Plus to all surfaces @ 4.0-6.0 mils dft.

Note: Series 406 requires pre-approved plural component application equipment and dehumidification equipment during application and curing. Contact your local Tnemec representative for details.



TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES

3,4

Name: TOWN Of TOWNSONA Account # 60429
Address: 272 Main St
Phone # Email Address
Billing date
AMOUNT: 153.16 · ABATEMENT[] ADJUSTMENT[] (check one)
REQUESTED BY: CUSTOMER [OFFICE] OTHER [] - if other please explain below:
Reasons: (please attached supporting documentation if applicable)
Acci was made inactive in exect - bill for
Acct was made inactive in exico - bill for 15310 was in last Fif - Accountain cannot
pay past Fy bills.
APPROVED [] (check one)
DATE: 2-13-17
TOWNSEND BOARD OF WATER COMMISSIONERS
mother Judle
WATER SUPERINTENDENT

Townsend Water Department

PO Box 321 Medford, MA 02155-0004 978-597-2212

Acct# 60429 **272 MAIN STREET** Meter read on 1/17/2017

Office Hours: Monday- Friday 9am to 3pm

Water Bill

Bills are mailed quarterly (January, April, July and October).

Schedule of Water Rates \$37.50 unit charge \$3.00 per 100 cubic feet

\$4,00 per 1,000 gallons (Timberlee Park residents)

Passed for Albertaniens Albertaniens Albertaniens

TOWN OF TOWNSEND MEMORIAL HALL 272 MAIN STREET TOWNSEND MA 01469

Previous Balance:

153.10

Abated.

New charges for this billing cycle

Water (Munic 13000-2400=10600

318.00

Unit Charge

37.50

SPRINKLER

105.00

Total Bill: \$613.60

41.11 50

YOU OWE 613.60 by 02/17/17

Thank you. TOWNSEND WATER DEPARTMENT

Please return this bottom portion with your prompt payment

TOWN OF TOWNSEND MEMORIAL HALL

Previous Balance: Water (Munic 13000-2400=10600

153.10

272 MAIN STREET

318.00

TOWNSEND MA 01469

Unit Charge

37.50

Please print any change of address on back of this bill return portion. Thank you.

272 MAIN STREET

SPRINKLER

105.00

Townsend Water Department

PO Box 321

Medford, MA 02155-0004

Total Bill: \$613.60

Acct# 60429

YOU OWE 613.60 by 02/17/17

460.52

0000060429800000613604

Townsend Water Department

1/18/2017

PO Box 321 Medford MA 02155-0004 PH: 978-597-2212

CUSTOMER HISTORY 12/31/2006 to 01/17/2017

Acct: 60429 TOWN OF TOWNSEND Home:(978) 732-3590
MEMORIAL HALL 272 MAIN STREET TOWNSEND MA 01469 Current Balance: \$613.60 ACTIVE

Loc ID: 60429 @ 272 MAIN STREET TOWNSEND Rte: 99 Seq.# 3825 Mtr S/N: 16367083 Dep:\$0.00

Date	Code	Description	Previous	Present	Used	Charge	Payment	Balance
1/26/2016	W02	Rec by Treasurer For \$184.50					42.00	105.00
1/26/2016	SPKL1	Rec by Treasurer For \$184.50					105.00	0.00
4/1/2016	W02	Read on 03/10/2016 (X100)	1,807	1,831	24	72.00		72.00
4/1/2016	WR	Unit Charge				37.50		109.50
4/1/2016	SPKL1	SPRINKLER		· · · · · · · · · · · · · · · · · · ·		105.00		214.50
4/5/2016	WorkOrd	20141181 CHANGE OUT METER 4/6/16 @ 730 AM						214.50
4/6/2016	BKFL2	BACKFLOW DEVICE BACKFLOW TESTING Added as Other Single Charge				100.00		314.50
4/22/2016	WR	Rec by Treasurer For \$100.00					37.50	277.00
4/22/2016	W02	Rec by Treasurer For \$100.00					62.50	214.50
5/5/2016	DEMAN	Added on 5/9/2016				1.00		215.50
5/5/2016	LAT	Added on 5/9/2016				3.07		218.57
6/1/2016	LAT	Added on 6/2/2016				3.07		221.64
6/23/2016	W02	Rec by Treasurer For \$436.14					224.00	-2.36
6/23/2016	DEMAN	Rec by Treasurer For \$436.14					1.00	-3.36
6/23/2016	LAT	Rec by Treasurer For \$436.14					6.14	-9.50
6/23/2016	BKFL2	Rec by Treasurer For \$436.14				7	100.00	-109.50
6/23/2016	SPKL1	Rec by Treasurer For \$436.14					105.00	-214.50
6/23/2016	Update	Changed Active Status from False to True						-214.50
7/1/2016	W02	Read on 06/02/2016 (X100) KeyedIn		24	24	72.00		-142.50
7/1/2016	WR	Unit Charge				37.50		-105.00
7/1/2016	SPKL1	SPRINKLER				105.00		0.00
10/1/2016	BKFL3	BACKFLOW DEVICE Added as Other Single Charge	//			150.00		150.00
11/9/2016	DEMAN	Added on 11/9/2016	·	·		1.00		151.00
11/9/2016	LAT	Added on 11/9/2016	 -			2.10	-)	153.10
1/17/2017	W02	Read on 01/17/2017 (X100) KeyedIn	24	130	106	318.00	>	471.10
1/17/2017	WR	Unit Charge				37.50		508.60
1/17/2017	SPKL1	SPRINKLER				105.00		1813. 60
			271.0	1991.6	3.			010



TOWN OF TOWNSEND BOARD OF WATER COMMISSIONERS APPLICATION TO ABATE OR ADJUST CHARGES

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Name: Telky Truax. Account # (0027)
Address:
Phone # Email Address
Billing date 11 412 3016.
AMOUNT: 3,34 4C ABATEMENT[] ADJUSTMENT[] (check one)
REQUESTED BY: CUSTOMER [] OFFICE [] OTHER [] - if other please explain below:
Reasons: (please attached supporting documentation if applicable)
Custone pa water bill but mailed to Taxys in
error - Treasures Office mailed her arefund
Check . They were not aware it was for
a water Bill
APPROVED [] DENIED [] (check one)
DATE: 2-13.17
TOWNSEND BOARD OF WATER COMMISSIONERS 2.36 4C
file 1 - 100-4231-000
Anthre Multide
WATER SUPERINTENDENT

Townsend Water Department

1/6/2017

PO Box 321 Medford MA 02155-0004 PH: 978-597-2212

CUSTOMER HISTORY 12/31/2006 to 01/01/2017

Acct: 60272 TRUAX TERRY Home:(978) 300-5253
5 SEAVER ROAD TOWNSEND MA 01469 Current Balance: \$107.36 ACTIVE
Loc ID: 60272 @ 39 WEST ELM STREET W TOWNSEND

Rte: 99 Seq.# 3025 Dep:\$0.00

Date	Code	Description	Previous	Present	Used	Charge	Payment	Balance
1/1/2016	W01	Read on 12/02/2015 (X100) RemMR	914	920	6	18.00		18.00
1/1/2016	WR	Unit Charge				37.50		55.50
1/28/2016	WR	Rec by Treasurer For \$55.50					37.50	18.00
1/28/2016	W01	Rec by Treasurer For \$55.50					18.00	0.00
4/1/2016	W01	Read on 03/02/2016 (X100) RemMR	920	924	4	12.00		12.00
4/1/2016	WR	Unit Charge				37.50		49.50
5/5/2016	DEMAN	Added on 5/9/2016				1.00		50.50
5/5/2016	LAT	Added on 5/9/2016				0.59		51.09
6/1/2016	LAT	Added on 6/2/2016				0.59		51.68
7/1/2016	W01	Read on 06/01/2016 (X100) RemMR	924	930	6	18.00		69.68
7/1/2016	WR	Unit Charge				37.50		107.18
7/7/2016	LAT	Added on 7/7/2016				0.59		107.77
7/28/2016	WR	Uni-Bank Deposit For \$107.77					75.00	32.77
7/28/2016	W01	Uni-Bank Deposit For \$107.77					30.00	2.77
7/28/2016	LAT	Uni-Bank Deposit For \$107.77	-				1.77	1.00
7/28/2016	DEMAN	Uni-Bank Deposit For \$107.77					1.00	0.00
10/1/2016	W01	Read on 09/06/2016 (X100) RemMR	930	936	6	18.00		18.00
10/1/2016	WR	Unit Charge				37.50		55.50
11/9/2016	DEMAN	Added on 11/9/2016				/ 1.00	\	56.50
11/9/2016	LAT	Added on 11/9/2016				0.68	1236	
12/7/2016	LAT	Added on 12/7/2016				0.68	100	57.86
1/1/2017	W01	Read on 12/07/2016 (X100) RemMR	936	940	4	12.00		69.86
1/1/2017	WR	Unit Charge				37.50		107.36

Town of Town Send Mailed Ler back 5700 mailed in Dec. 60 5707

Kate. 978.2574544.

(M) 1/9/16