



# TOWN COUNCIL – AGENDA REQUEST FORM

THIS FORM WILL BECOME PART OF THE BACKGROUND INFORMATION USED BY THE COUNCIL AND PUBLIC

Please submit Agenda Request Form, **including back up information**, 8 days prior to the requested meeting date. **Public Hearing requests must be submitted 20 days prior to requested meeting date to meet publication deadlines** (exceptions may be authorized by the Town Manager, Chairman/Vice Chair).

## MEETING INFORMATION

Date Submitted: January 7, 2022  
Submitted by: Fire Chief Mark DiFronzo  
Department: Fire Rescue  
Speakers: Mark DiFronzo

Date of Meeting: January 13, 2022  
Time Required: 20 minutes  
Background Info. Supplied: Yes:  No:

## CATEGORY OF BUSINESS (PLEASE PLACE AN "X" IN THE APPROPRIATE BOX)

Appointment:	<input type="checkbox"/>	Recognition/Resignation/Retirement:	<input type="checkbox"/>
<b>Public Hearing:</b>	<input type="checkbox"/>	Old Business:	<input type="checkbox"/>
New Business:	<input checked="" type="checkbox"/>	Consent Agenda:	<input type="checkbox"/>
Nonpublic:	<input type="checkbox"/>	Other:	<input type="checkbox"/>

## TITLE OF ITEM

Merrimack Fire Rescue Ladder Truck

## DESCRIPTION OF ITEM

The Town Council to consider the purchase of a new ladder truck for the replacement of the current 2002 American LaFrance ladder truck. In addition, the Council will receive financing options to purchase the new ladder truck.

## REFERENCE (IF KNOWN)

RSA:	Warrant Article:	
Charter Article:	Town Meeting:	
Other:	N/A	

## EQUIPMENT REQUIRED (PLEASE PLACE AN "X" IN THE APPROPRIATE BOX)

Projector:	<input type="checkbox"/>	Grant Requirements:	<input type="checkbox"/>
Easel:	<input type="checkbox"/>	Joint Meeting:	<input type="checkbox"/>
Special Seating:	<input type="checkbox"/>	Other:	<input type="checkbox"/>
Laptop:	<input type="checkbox"/>	None:	<input type="checkbox"/>

## CONTACT INFORMATION

Name:	<b>Mark DiFronzo</b>	Address:	<b>432 DW Highway</b>
Phone Number:	<b>603-424-3690</b>	Email Address:	<b>mdifronzo@merrimacknh.gov</b>

## APPROVAL

Town Manager:	Yes <input checked="" type="checkbox"/>	No: <input type="checkbox"/>	Chair/Vice Chair:	Yes <input checked="" type="checkbox"/>	No: <input type="checkbox"/>
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# LADDER 1 REPLACEMENT



# The Town has had a Ladder Truck since 1972



1972 to 1980  
USED



1980 to 2002  
NEW



2002 to Current  
NEW





- Made by American LaFrance Feb 2002
- Company Out of Business 2014
- Parts Availability Difficult to Non-Existent
- Age of the truck = 19 yo going on 20 yo





## Out of Service Time

- ❖ 2020 – 19 Times – 66 Days
- ❖ 2021 – 8 Times – 140 Days





## Cost of Repairs

Jan 1, 2017 to Nov 30, 2021

- \$75,097
- Avg Annual Costs = \$15,019





## Cost of Repairs

- Sept of 2021 swivel unit failed
- Part No Longer Made
- Rebuilt unit for service
- Total Cost of Repair \$30,955



# Truck Evaluation – DPW – December 2021

- Rust on fuel tank and straps
- Rust on undercarriage
- Body corrosion
- Corroded rear air bag mounts
- Hydraulic hose and cylinders are getting old
- Engine has blow-by
- Brakes – normal wear and tear
- Tires – normal wear and tear





# Truck Evaluation – DPW – December 2021

*This list is not inclusive of things that could potentially go wrong with this vehicle.*

*It is a visual inspection only and many things contribute to things breaking down.*

*Brian Friolet, Equipment Maintenance Foreman*



## Why Continue with operating our own ladder ?

- ❖ Provides for FF Safety during Roof Operations
- ❖ Safer for victim removal from exterior
- ❖ Ability for large volumes of water if needed
- ❖ Carries full complement of ground ladders to include a 35 foot ladder



# Why Continue with operating our own ladder ? (cont'd)

- ❖ Allows for outside access to commercial roof top units
- ❖ Ability to protect exposures
- ❖ Used to assist in certain Rescue Operations

(Trench Rescue Anchor Point or Rappelling Anchor Point with bucket)



Why Continue with operating our own ladder ?  
(cont'd)

❖ Over 20 new 4-story Apartment Bldgs

Many are over 40 units each some are over 200 units



Why Continue with operating our own ladder ?  
(cont'd)

❖ Most Commercial Bldgs and LEEDS type  
bldgs. Have HVAC Units on the roof

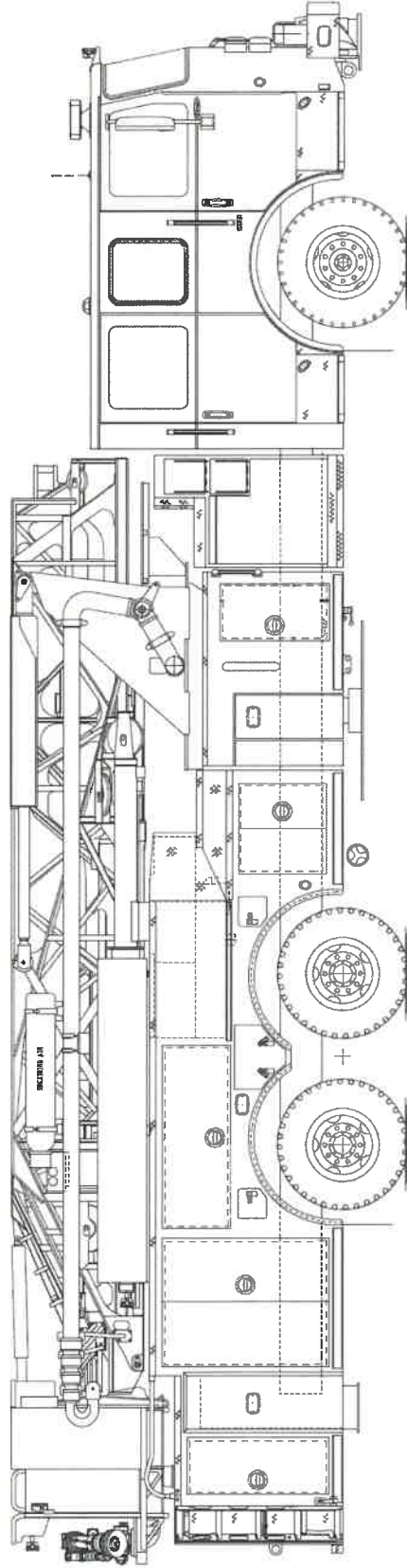
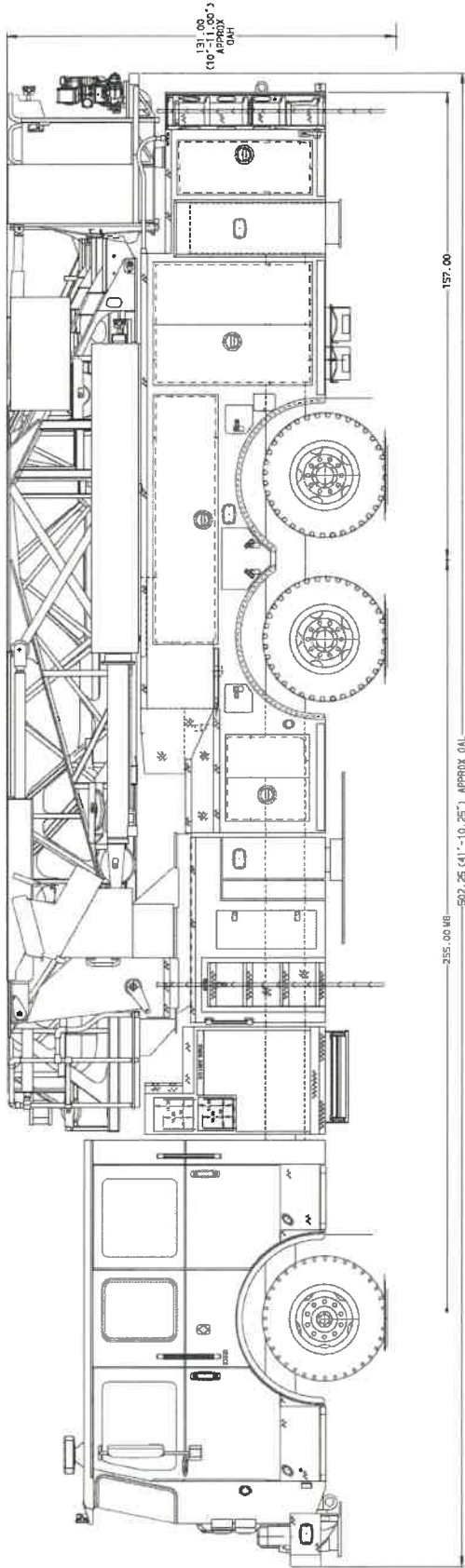




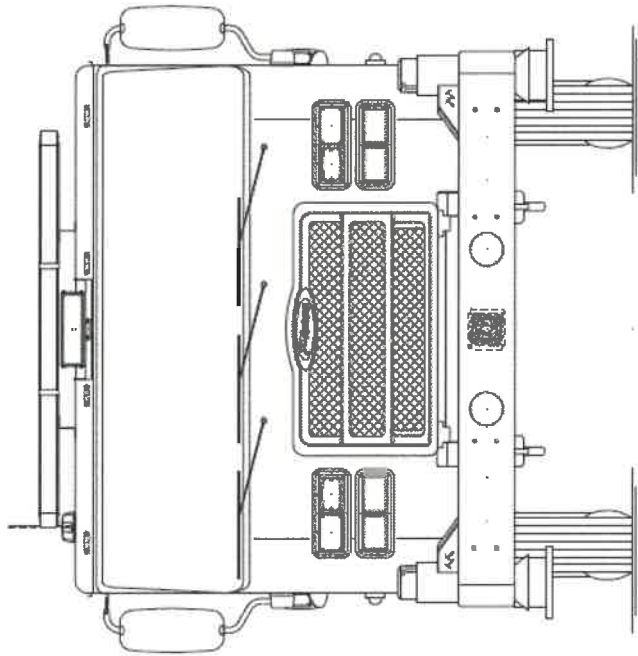
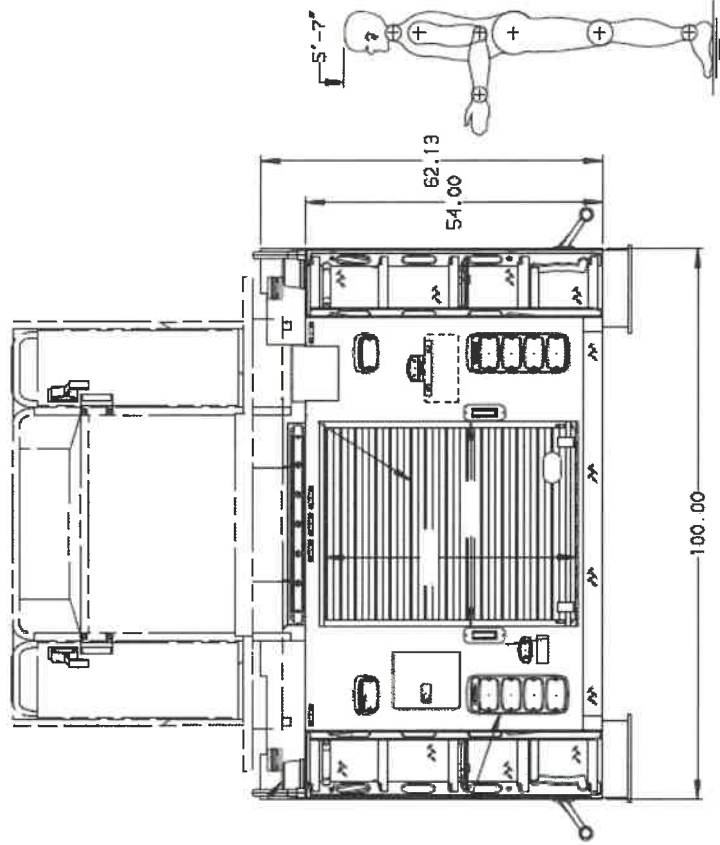
# What is the Replacement

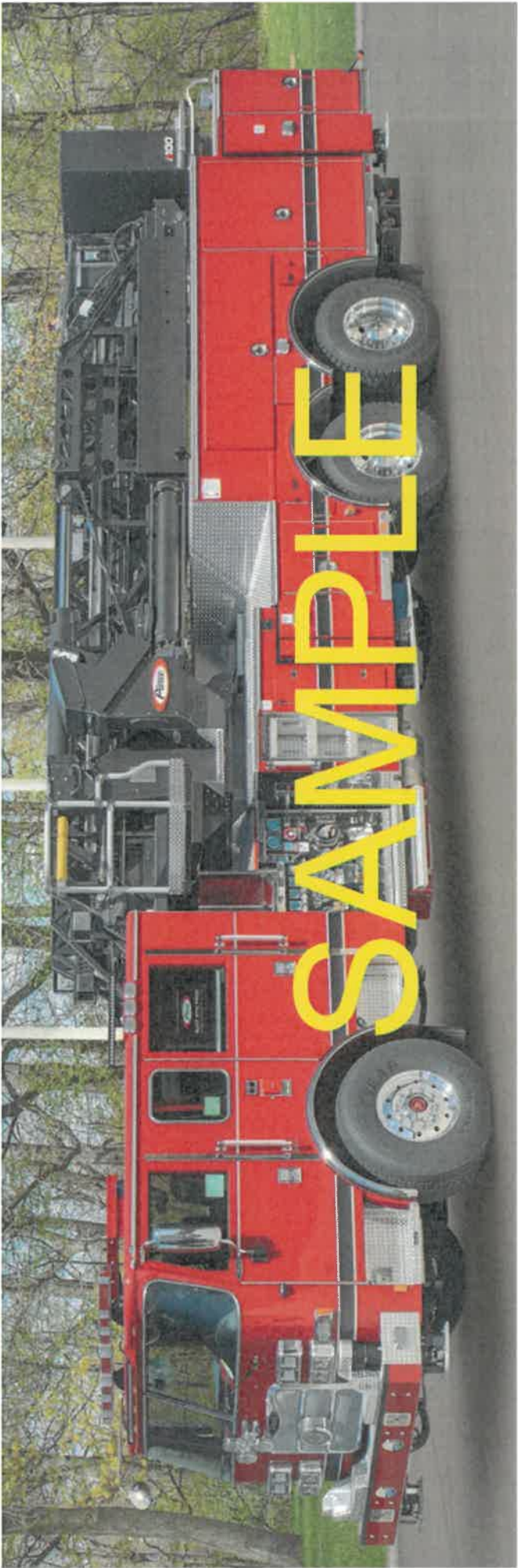
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**Purchased in 2002**  
**Cost = \$746,748**  
**Today's dollars = \$1,153,736**

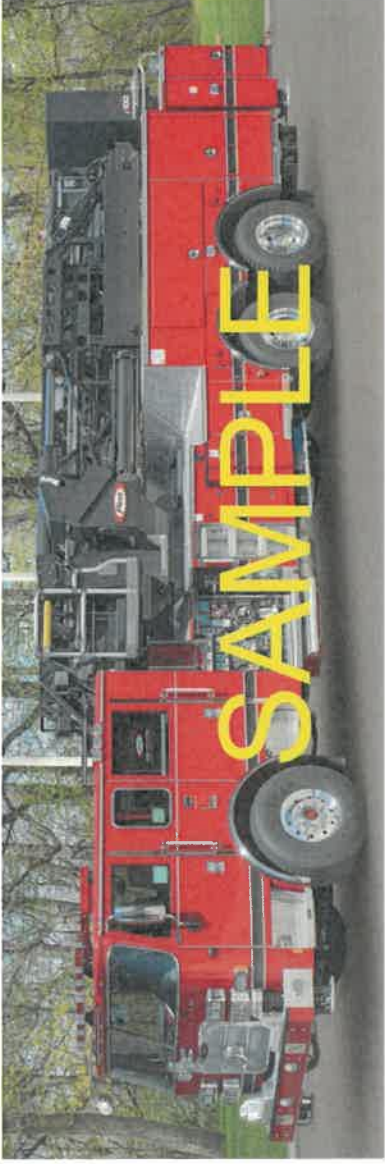
*U.S. Inflation Calculator*





New Truck  
Cost = \$1,473,994





\$ \$

COSTS

Truck cost = \$1,473,994

Pay up front savings = \$ - 40,724

Final Truck cost = \$1,433,270

The remaining dollars (\$66,730) will be to replace antiquated equipment and anything additional



# EQUIPMENT NEEDS



- Around 20 yrs old
- Engine Powered

- New – Matches Current Equipment
- Battery Powered



# EQUIPMENT NEEDS (cont'd)

- New Ropes and Ancillary Equipment
- Battery Powered Scene Lighting
- New Saws
  
- Total Costs for equipment = \$61,540
  
- Total remaining = \$5,190





# FINANCING OPTIONS

\$ \$





## Lease Option #1 - 4 years

Principal Balance	\$ 1,500,000.00
Interest rate assumption	2.29%
Loan term in years	4.00
Annual Payment	\$ 396,711.76

Payment No.	Annual Payment	Interest	Principal	Balance	Est. Tax Rate Impact
1	\$ 396,711.76	\$ 34,350.00	\$ 362,361.76	\$ 1,137,638.24	\$ 0.08
2	\$ 396,711.76	\$ 26,051.92	\$ 370,659.84	\$ 766,978.40	\$ 0.08
3	\$ 396,711.76	\$ 17,563.81	\$ 379,147.95	\$ 387,830.44	\$ 0.08
4	\$ 396,711.76	\$ 8,881.32	\$ 387,830.44	\$ -	\$ 0.08
<b>Totals</b>	<b>\$ 1,586,847.04</b>	<b>\$ 86,847.04</b>	<b>\$ 1,500,000.00</b>		



## Lease Option #2 - 8 years

Principal Balance	\$ 1,500,000.00
Interest rate assumption	2.63%
Loan term in years	8.00
Annual Payment	\$ 210,362.22

Payment No.	Annual Payment	Interest	Principal	Balance	Est. Tax Rate Impact
1	\$ 210,362.22	\$ 39,450.00	\$ 170,912.22	\$ 1,500,000.00	0.04
2	\$ 210,362.22	\$ 34,955.01	\$ 175,407.21	\$ 1,329,087.78	0.04
3	\$ 210,362.22	\$ 30,341.80	\$ 180,020.42	\$ 973,660.16	0.04
4	\$ 210,362.22	\$ 25,607.26	\$ 184,754.96	\$ 788,905.20	0.04
5	\$ 210,362.22	\$ 20,748.21	\$ 189,614.01	\$ 599,291.19	0.04
6	\$ 210,362.22	\$ 15,761.36	\$ 194,600.86	\$ 404,690.33	0.04
7	\$ 210,362.22	\$ 10,643.36	\$ 199,718.86	\$ 204,971.47	0.04
8	\$ 210,362.22	\$ 5,390.75	\$ 204,971.47	\$ 0.00	0.04
<b>Totals</b>	<b>\$ 1,682,897.74</b>	<b>\$ 182,897.74</b>	<b>\$ 1,500,000.00</b>		



# NHMBB New Hampshire Municipal Bond Bank

## Town of Merrimack July 2022 Bond Sale 5 Year Estimated Schedule - Level Principal

2021 Assessed Valuation: \$4,902,353,163  
 Date Prepared: 01/05/22  
 Interest Start Date: 08/11/22  
 First Interest Payment: 02/15/23

Our 5 year interest rate in our July 2021 bond sale was .75% and we expect the interest rate for July 2022 to be lower than 1.25%. We use 1.25% to be conservative for budgeting purposes.

Debt Year	Period Ending	Principal Outstanding	Principal	Rate	Interest	Total Payment	Fiscal Year Total Payment	Assessed Valuation	FY-Est. Tax Rate Inc.
1	2/15/2023	\$ 1,500,000.00	\$ 300,000.00	1.25%	\$ 37,500.00	\$ 37,500.00	\$ 37,500.00	\$ 4,902,353,163	\$ 0.01
	8/15/2023				9,375.00	309,375.00			
2	2/15/2024	1,200,000.00	300,000.00	1.25%	7,500.00	7,500.00	316,875.00	4,902,353,163	0.06
	8/15/2024				7,500.00	307,500.00			
3	2/15/2025	900,000.00	300,000.00	1.25%	5,625.00	5,625.00	313,125.00	4,902,353,163	0.06
	8/15/2025				5,625.00	305,625.00			
4	2/15/2026	600,000.00	300,000.00	1.25%	3,750.00	3,750.00	308,375.00	4,902,353,163	0.06
	8/15/2026				3,750.00	303,750.00			
5	2/15/2027	300,000.00	300,000.00	1.25%	1,875.00	1,875.00	305,625.00	4,902,353,163	0.06
	8/15/2027				1,875.00	301,875.00			
TOTALS			\$ 1,500,000.00		\$ 84,375.00	\$ 1,584,375.00	\$ 1,584,375.00		

Please show all warrant articles related to this project to bond counsel prior to submitting them to DRA. If you need a list of approved bond counsels, please let us know and we will provide one.



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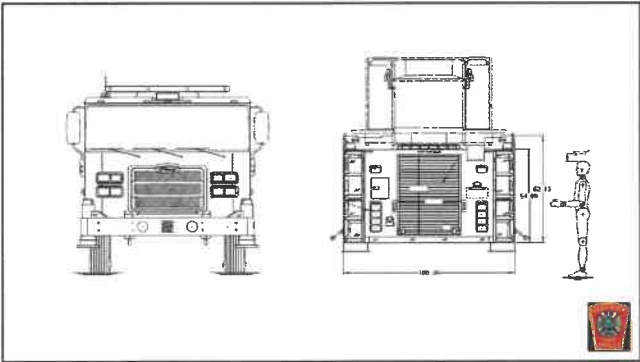
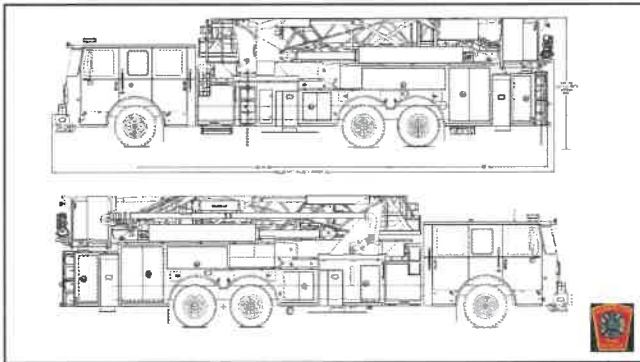
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**FINANCING OPTIONS**  
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2	\$ 210,362.22	\$ 34,655.01	\$ 175,707.21	\$ 1,153,380.57	\$ 0.04
3	\$ 210,362.22	\$ 30,241.80	\$ 180,120.42	\$ 973,260.15	\$ 0.04
4	\$ 210,362.22	\$ 25,697.26	\$ 184,754.96	\$ 788,505.20	\$ 0.04
5	\$ 210,362.22	\$ 20,748.21	\$ 189,614.01	\$ 599,291.19	\$ 0.04
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<b>Totals</b>	<b>\$ 1,682,897.74</b>	<b>\$ 182,897.74</b>	<b>\$ 1,500,000.00</b>		

**NHMBB** New Hampshire Municipal Bond Bank

**Bond Option - 5 years**

Terms of Maturity

July 2022 Bond Sale

8 Year Estimated Schedule - Level Principal

2021 Assessed Valuation: \$4,888,383,183

Date Prepared: 01/06/22

Issued Date: 08/11/22

Next Interest Payment: 09/15/22

Net Interest Costs: 1.25%. Our 8 year interest rate in our July 2022 bond sale was 1.05% and we expect the interest rate for July 2022 to be lower than 1.25%. We use 1.25% to be conservative for budgeting purposes.

Date	Period Ending	Principal Outstanding	Principal	Rate	Interest	Total Payment	Fiscal Year	Assessed Valuation	FY Est. Tax Rate Inc.
01/15/2023		\$ 1,500,000.00	\$ 300,000.00	1.25%	\$ 37,500.00	\$ 37,500.00	\$ 4,888,383,183	\$ 0.01	
01/15/2023					\$ 37,500.00	\$ 37,500.00			
01/15/2024					\$ 35,000.00	\$ 35,000.00			
01/15/2024		1,200,000.00	300,000.00	1.25%	\$ 37,500.00	\$ 37,500.00	\$ 4,888,383,183	\$ 0.06	
01/15/2025					\$ 32,500.00	\$ 32,500.00			
01/15/2025		900,000.00	300,000.00	1.25%	\$ 37,500.00	\$ 37,500.00			
01/15/2026					\$ 27,500.00	\$ 27,500.00			
01/15/2026		600,000.00	300,000.00	1.25%	\$ 37,500.00	\$ 37,500.00	\$ 4,888,383,183	\$ 0.08	
01/15/2027					\$ 20,000.00	\$ 20,000.00			
01/15/2027		300,000.00	300,000.00	1.25%	\$ 37,500.00	\$ 37,500.00	\$ 4,888,383,183	\$ 0.08	
<b>TOTALS</b>			\$ 1,500,000.00		\$ 147,500.00	\$ 1,647,500.00			

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