

May 19, 2021

Ms. Mayte D. Gamiotea
Pension Administrator
Retirement Plan for Employees of the
Town of Surfside
9293 Harding Avenue
Surfside, Florida 33154

Re: Retirement Plan for Employees of the Town of Surfside

Dear Mayte:

As requested, we are pleased to enclose twenty (20) copies of the October 1, 2020 Actuarial Valuation Report for the Retirement Plan for Employees of the Town of Surfside.

Upon Board approval of the Actuarial Valuation Report, we will upload an electronic copy of the Actuarial Valuation Report along with the required disclosure information to the State portal as required by the State.

We appreciate the opportunity to have performed this important assignment on behalf of the Board and look forward to presenting the key results at the next Board Meeting.

If you should have any questions concerning the above, please do not hesitate to contact us.

Sincerest regards,

Shelly L. Jones, A.S.A., E.A. Consultant and Actuary

Michelle Jones

Enclosures

RETIREMENT PLAN FOR EMPLOYEES OF THE TOWN OF SURFSIDE

Actuarial Valuation as of October 1, 2020

This Valuation Determines the Annual Contribution for the Plan and Fiscal Year October 1, 2021 through September 30, 2022 to Be Paid in Fiscal Year October 1, 2021 through September 30, 2022

May 19, 2021





Retirement Plan for Employees of the Town of Surfside

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May 19, 2021

Pension Board
Retirement Plan for Employees
of the Town of Surfside
c/o Ms. Mayte Gamiotea
9293 Harding Avenue
Surfside, Florida 33154

Dear Board Members:

October 1, 2020 Actuarial Valuation

We are pleased to present our October 1, 2020 Actuarial Valuation for the Retirement Plan for Employees of the Town of Surfside (Plan). The purpose of this report is to indicate appropriate contribution levels, comment on the actuarial soundness of the Plan and to satisfy State requirements. Gabriel, Roeder, Smith & Company, as Plan actuary, is authorized by the Pension Board to prepare an annual actuarial valuation under Section 2–185(i)(11)(c) of the Plan. This report is prepared for and at the request of the Pension Board.

This report consists of this commentary, detailed Tables I through XVI, the State Required Exhibit on Table XVII and Glossary on Table XVIII. The Tables contain basic Plan cost figures plus significant details on the benefits, liabilities and experience of the Plan. We suggest that you thoroughly review the report at your convenience and contact us with any questions that may arise.

Pension Plan Costs

Our Actuarial Valuation develops the required minimum Pension Plan payment under the Florida Protection of Public Employee Retirement Benefits Act and Police Officers Retirement Chapter 185. The minimum payment consists of payment of annual normal costs and amortization of the components of the unfunded actuarial accrued liability over various periods as prescribed by law. The minimum payment for the Plan year ending September 30, 2022 is \$1,835,676 (28.9%). The figure in parentheses is the Plan cost expressed as a percentage of covered annual payroll (\$6,361,141) as of October 1, 2020.

This total cost is to be met by Member, State and Town contributions. We anticipate Member contributions will be \$508,891 (8.0%) and allowable State contributions will be \$21,074 (0.3%). The resulting minimum required Town contribution to be paid in **fiscal year ending September 30**, 2022 is \$1,305,711 (20.5%). This Actuarial Valuation assumes Town contributions will be made on the first day of the Plan Year and must be increased if total State contributions are less than

expected (\$60,457). The Plan is holding a funding standard account credit balance in the amount of \$50,000 available to reduce the Town contribution requirement.

Changes in Actuarial Assumptions, Methods and Plan Benefits

Plan provisions remain unchanged from the October 1, 2019 Actuarial Valuation. Plan provisions are summarized on Table X.

The actuarial assumptions and methods remain unchanged from the October 1, 2019 Actuarial Valaution and are outlined on Table XI.

Comparison of October 1, 2019 and October 1, 2020 Valuation Results

Table II of our report provides information of a comparative nature. The left columns of the Table indicate the costs as calculated for the October 1, 2019 Actuarial Valuation. The right columns indicate the costs as calculated for October 1, 2020.

Comparing the left and right columns of Table II shows the effect of Plan experience during the year. The number of active participants <u>decreased</u> by approximately 8% while covered payroll <u>decreased</u> by approximately 4%. The total normal cost <u>decreased</u> as a dollar amount but <u>increased</u> as a percentage of covered payroll. The unfunded actuarial accrued liability and the Net Town minimum funding requirement <u>increased</u> both as a dollar amount and as a percentage of covered payroll.

Assets exceed the value of vested accrued benefits resulting in a Vested Benefit Security Ratio (VBSR) of 101.2%. This is a <u>decrease</u> from 108.6% as of the October 1, 2019 Actuarial Valuation. The Vested Benefit Security Ratio is based upon the market value of assets.

Actuarial Gains / (Losses)

The Plan experienced an <u>actuarial loss</u> of **\$519,011 (8.2%)** during the year. Our Actuarial Valuation Report tracks the actual experience in areas that are very significant in determining whether a gain or loss occurs. Table XV presents investment return, salary experience and termination experience.

Table XV provides the <u>investment experience</u> under the Plan in comparison to the actuarial assumption. During 2019-2020, the fund experienced a smoothed actuarial value net return of approximately 7.05%. This return is less than the assumed 7.25% rate of return. Investment return was a source of <u>actuarial loss</u> this year. The average smoothed actuarial value return over the last three, five and ten-years is 6.94%, 7.29% and 6.0%, respectively. The one, three, five and ten-year average market value returns are 5.15%, 5.58%, 7.65% and 7.2%, respectively.



Table XV also provides <u>salary increase experience</u> for the Plan in comparison to assumed salary increases. Salary increases averaged 6.5% and 5.6%, respectively for General Employees and Police Officers this year. The average salary increase assumption was 5.3% for General Employees and 5.1% for Police Officers. Salary increases were an additional source of <u>actuarial loss</u> for General Employees and Police Officers. General Employee average annual salary increases for the three, five and ten-year periods are 6.0%, 5.3% and 6.3%, respectively. Police Officer average annual salary increases for the three, five and ten-year periods are 5.9%, 4.5% and 4.2%, respectively.

Employee <u>turnover</u> this year was 90% of the assumed turnover for General Employees – there was no turnover for Police Officers. General Employee turnover for the three, five and ten-year periods are 60%, 80% and 110%, respectively of expected turnover. Police Officer turnover for the three, five and ten-year periods are 30%, 20% and 50%, respectively of expected turnover. Employee turnover was generally an additional source of <u>actuarial loss</u> for General Employees and Police Officers.

Member Census and Financial Data

The Member census data as of October 1, 2020 used for this Actuarial Valuation was submitted to us by the Town. This information contains name, Social Security number, date of birth, date of hire, October 1, 2020 rate of pay, actual salary paid and member contributions for the previous fiscal year. Dates of termination and retirement are provided where applicable. Information on inactive participants including retirees, beneficiaries and vested terminees was also provided by the Town.

We were supplied with information on the assets of the Plan as of September 30, 2020 by the Board. We do not audit the member census data and asset information provided to us; however, we perform certain reasonableness checks. The Plan is responsible for the accuracy of the data.

Risks Associated with Measuring the Accrued Liability and Actuarially Determined Contribution

The determination of the accrued liability and the actuarially determined contribution requires the use of assumptions regarding future economic and demographic experience. Risk measures, as illustrated in this report, are intended to aid in the understanding of the effects of future experience differing from the assumptions used in the course of the actuarial valuation. Risk measures may also help with illustrating the potential volatility in the accrued liability and the actuarially determined contribution that result from the differences between actual experience and the actuarial assumptions.

Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: Plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions due to changing conditions; increases or decreases expected as part of the natural operation of the



methodology used for these measurements (such as the end of an amortization period, or additional cost or contribution requirements based on the Plan's funded status); and changes in Plan provisions or applicable law. The scope of an actuarial valuation does not include an analysis of the potential range of such future measurements.

Examples of risk that may reasonably be anticipated to significantly affect the Plan's future financial condition include:

- 1. <u>Investment risk</u> actual investment returns may differ from expected returns;
- 2. <u>Asset / Liability mismatch</u> changes in asset values may not match changes in liabilities, thereby altering the gap between the accrued liability and assets and consequently altering the funded status and the actuarially determined contribution requirements;
- 3. <u>Contribution risk</u> actual contributions may differ from expected future contributions. For example, actual contributions may not be made in accordance with the Plan's funding policy or material changes may occur in the anticipated number of covered employees, covered payroll or other relevant contribution base;
- 4. <u>Salary and Payroll risk</u> actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and the actuarially determined contributions differing from expected;
- 5. <u>Longevity risk</u> members may live longer or shorter than expected and receive pensions for a period of time other than assumed;
- 6. Other demographic risks members may terminate, retire or become disabled at times or with benefits other than assumed resulting in actual future accrued liability and the actuarially determined contributions differing from expected.

The effects of certain trends in experience can generally be anticipated. For example if the investment return since the most recent actuarial valuation is less (or more) than the assumed rate, the actuarially determined contribution can be expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in the actuarially determined contribution can be anticipated.

The actuarially determined contribution rate shown on page one of the report may be considered as a minimum contribution rate that complies with the Plan's funding policy. The timely receipt of the actuarially determined contributions is critical to support the financial health of the Plan. Users of this report should be aware that contributions made at the actuarially determined rate do not necessarily guarantee benefit security.



Plan Maturity Measures

Risks facing a pension plan evolve over time. A young plan with virtually no investments and paying few benefits may experience little investment risk. An older plan with a large number of members in pay status and a significant trust fund may be much more exposed to investment risk. Generally accepted plan maturity measures include the following:

	<u>2019</u>	<u>2020</u>
Ratio of market value of assets to payroll	3.65	4.12
Ratio of actuarial accrued liability to payroll	4.42	5.09
Ratio of actives to retirees and beneficiaries	2.48	1.86
Ratio of net cash flow to market value of assets	-0.5%	3.5%
Duration of the actuarial accrued liability	14.88	14.60

Ratio of Market Value of Assets to Payroll

The relationship between assets and payroll is a useful indicator of the potential volatility of the actuarially determined contribution. For example, if the market value of assets is 2.0 times the payroll, a return on assets 5% different than assumed would equal 10% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates higher (lower) or increasing (decreasing) volatility in the actuarially determined contribution as a percentage of payroll.

Ratio of Actuarial Accrued Liability to Payroll

The relationship between actuarial accrued liability and payroll is a useful indicator of the potential volatility of the actuarially determined contributions for a fully funded plan. A funding policy targeting a funded ratio of 100% is expected to result in the ratio of assets to payroll and the ratio of liability to payroll converging over time.

The ratio of actuarial accrued liability to payroll may also be used as a measure of sensitivity of the liability itself. For example, if the actuarial accrued liability is 2.5 times payroll, a change in actuarial accrued liability 2% other than assumed would equal 5% of payroll. A higher (lower) or increasing (decreasing) level of this maturity measure generally indicates a higher (lower) or increasing (decreasing) volatility in actuarial accrued liability (and also the actuarially determined contribution) as a percentage of payroll.



Ratio of Actives to Retirees and Beneficiaries

A young plan with many active members and few retirees will have a high ratio of active to retirees. A mature open plan may have close to the same number of actives to retirees resulting in a ratio near 1.0. A super-mature or closed plan may have significantly more retirees than actives resulting in a ratio below 1.0.

Ratio of Net Cash Flow to Market Value of Assets

A positive net cash flow means contributions exceed benefits and expenses. A negative cash flow means existing funds are being used to make payments. A certain amount of negative net cash flow is generally expected to occur when benefits are prefunded through a qualified trust. Large negative net cash flows as a percent of assets may indicate a super-mature plan or a need for additional contributions.

Duration of Actuarial Accrued Liability

The duration of the actuarial accrued liability may be used to approximate the sensitivity to a 1% change in the assumed rate of return. For example, a duration of 10 indicates the actuarial accrued liability would increase approximately 10% if the assumed rate of return were lowered 1%.

Additional Risk Assessment

Additional risk assessment is outside the scope of the annual actuarial valuation. Additional assessment may include scenario tests, sensitivity tests, stochastic modeling, stress tests and a comparison of the present value of accrued benefits at low-risk discount rates with the actuarial accrued liability.

Summary

In our opinion the benefits provided for under the current Plan will be sufficiently funded through the payment of the amount as indicated in this and future Actuarial Valuation reports. We will continue to update you on the future payment requirements for the Plan through our Actuarial Valuation reports. These reports will also continue to monitor emerging experience of the Plan.

The actuarial assumptions used in this Actuarial Valuation are as adopted by the Board. The economic and demographic actuarial assumptions were last updated based on the results of Experience Study for the period October 1, 2009 – September 30, 2014. The mortality assumptions are as prescribed by statute. Each assumption represents an estimate of future Plan experience.



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The Government Finance Officers Association (GFOA) recommends an experience study every five years. The last experience study performed was six years ago. Therefore, we recommend an experience study to align the assumptions with more recent experience.

If all actuarial assumptions are met and if all future minimum required contributions are paid, Plan assets will be sufficient to pay all Plan benefits, future contributions are expected to remain relatively stable as a percent of payroll and the funded status is expected to improve. Plan minimum required contributions are determined in compliance with the requirements of the Florida Protection of Public Employee Retirement Benefits Act with normal cost determined as a level percent of covered payroll and a level dollar amortization payment using an initial amortization period of 30 years.

The Unfunded Actuarial Accrued Liability (UAAL) may not be appropriate for assessing the sufficiency of Plan assets to meet the estimated cost of settling benefit obligations but may be appropriate for assessing the need for or the amount of future contributions. The UAAL would be different if it reflected the market value of assets rather than the smoothed actuarial value of assets.

The Government Accounting Standards Board Net Pension Liability and Plan Fiduciary Net Position as a Percentage of Total Pension Liability may not be appropriate for assessing the sufficiency of Plan assets to meet the estimated cost of settling benefit obligations but may be appropriate for assessing the need for or the amount of future contributions.

This report should not be relied upon for any purpose other than the purpose described in the primary communication. Determinations of the financial results associated with the benefits described in this report in a manner other than the intended purpose may produce significantly different results.

This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

This report has been prepared by actuaries who have substantial experience valuing public employee retirement plans. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the Plan as of the valuation date. All calculations have been made in conformity with generally accepted actuarial principles and practices, with the Actuarial Standards of Practice issued by the Actuarial Standards Board and with applicable statutes.



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This report may be provided to parties other than the Board only in its entirety and only with the permission of an approved representative of the Board.

The signing actuaries are independent of the Plan sponsor.

The undersigned are Members of the American Academy of Actuaries and meet the qualification standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. We are available to respond to any questions with regards to matters covered in this report.

Very truly yours,

Jennifer M. Borregard, E.A. **Consultant and Actuary**

Jennifer Borregard

Shelly L. Jones, E.A., A.S.A., C.F.A.

Michelle Jones

Consultant and Actuary



Both Groups Combined

		Cost	% of
		<u>Data</u>	<u>Payroll</u>
A.	Participant Data Summary (Table III)		
	1. Active Employees	91	N/A
	2. Terminated Vested	7	N/A
	3. Receiving Benefits (including DROPs)	49	N/A
	4. Annual Payroll of Active Employees	\$ 6,361,141	100.0%
В.	Total Normal Cost		
	1. Age Retirement Benefits	\$ 1,003,930	15.8%
	2. Deferred Vesting Benefits	130,563	2.1%
	3. Disability Benefits	159,820	2.5%
	4. Return of Employee Contributions	19,288	0.3%
	5. Administrative Expenses	108,171	1.7%
	6. Total Annual Normal Cost	\$ 1,421,772	22.4%
C.	Total Actuarial Accrued Liability		
	1. Active Employees	\$ 19,319,184	303.7%
	2. Service Retirees and Beneficiaries (including DROPs)	11,515,813	181.0%
	3. Disabilities	556,182	8.7%
	4. Terminated Vested Members	1,011,495	15.9%
	5. Miscellaneous Liability	 0	0.0%
	6. Total Actuarial Accrued Liability	\$ 32,402,674	509.4%
D.	Plan Assets		
	1. Net Smoothed Actuarial Value	\$ 26,893,203	422.8%
	2. Net Market Value	\$ 26,199,729	411.9%
E.	Unfunded Actuarial Accrued Liability (C - D.1.)	\$ 5,509,471	86.6%
F.	Minimum Required Contribution		
	1. Total Normal Cost	\$ 1,421,772	22.4%
	2. Amortization of Unfunded Liability	395,636	6.2%
	3. Interest Adjustment	 18,269	0.3%
	4. Total Contribution	\$ 1,835,677	28.9%



Both Groups Combined

		Cost <u>Data</u>	% of <u>Payroll</u>
G.	Expected Payroll of Active Employees for 2021 - 2022 Plan Year (\$6,361,141 x 1.000)	\$ 6,361,141	100.0%
Н.	Expected Contribution Sources (percent of expected 2021 - 2022 payroll)		
	1. Town	\$ 1,305,712	20.5%
	2. State	21,074	0.3%
	3. Employees	508,891	8.0%
I.	Years to Which Contribution Applies:		
	1. Plan Year Ending	September 30	, 2022
	2. Town Fiscal Year Ending	September 30	, 2022
	3. Assumed Dates of Town Contribution	October 1, 2	021
J.	Actuarial Gain / (Loss) (Table VII)	\$ (519,011)	(8.2%)
K.	Actuarial Present Value of Vested Accrued Benefits		
	Members Currently Receiving Benefits		
	(including DROPs) 2. Terminated Vested Members Entitled to	\$ 12,071,995	189.8%
	Future Benefits and Miscellaneous	1,011,495	15.9%
	3. Active Employees	12,808,288	201.4%
	4. Total Actuarial Present Value of Vested	<u> </u>	
	Accrued Benefits	\$ 25,891,778	407.0%
L.	Unfunded Actuarial Present Value of Vested		
	Accrued Benefits (K D.2., not less than zero)	\$ 0	0.0%
M.	Vested Benefit Security Ratio (D.2. ÷ K.)	101.2%	N/A



General Employees / Senior Management Employees

		Cost	% of
		<u>Data</u>	<u>Payroll</u>
A.	Participant Data Summary (Table III)		
	1. Active Employees	59	N/A
	2. Terminated Vested	4	N/A
	3. Receiving Benefits (including DROPs)	33	N/A
	4. Annual Payroll of Active Employees	\$ 3,353,715	100.0%
В.	Total Normal Cost		
	1. Age Retirement Benefits	\$ 334,309	10.0%
	2. Deferred Vesting Benefits	74,538	2.2%
	3. Disability Benefits	40,409	1.2%
	4. Return of Employee Contributions	12,142	0.4%
	5. Administrative Expenses	 39,843	1.2%
	6. Total Annual Normal Cost	\$ 501,241	14.9%
C.	Total Actuarial Accrued Liability		
	1. Active Employees	\$ 6,038,924	180.1%
	2. Service Retirees and Beneficiaries (including DROPs)	7,130,975	212.6%
	3. Disabilities	0	0.0%
	4. Terminated Vested Members	268,206	8.0%
	5. Miscellaneous Liability	0	0.0%
	6. Total Actuarial Accrued Liability	\$ 13,438,105	400.7%
D.	Plan Assets		
	1. Net Smoothed Actuarial Value	\$ 9,844,248	293.5%
	2. Net Market Value	\$ 9,590,402	286.0%
E.	Unfunded Actuarial Accrued Liability (C - D.1.)	\$ 3,593,857	107.2%
F.	Minimum Required Contribution		
	1. Total Normal Cost	\$ 501,241	14.9%
	2. Amortization of Unfunded Liability	288,833	8.6%
	3. Interest Adjustment	9,068	0.3%
	4. Total Contribution	\$ 799,142	23.8%



General Employees / Senior Management Employees

		Cost <u>Data</u>	% of <u>Payroll</u>	
G.	Expected Payroll of Active Employees for 2021 - 2022 Plan Year (\$3,353,715 x 1.000)	\$ 3,353,715	100.0%	
H.	Expected Contribution Sources (percent of expected 2021 - 2022 payroll)			
	 Town State Employees 	\$ 530,845 N/A 268,297	15.8% N/A 8.0%	
l.	Years to Which Contribution Applies:			
	 Plan Year Ending Town Fiscal Year Ending Assumed Date of Town Contribution 	September 30, 2022 September 30, 2022 October 1, 2021		
J.	Actuarial Gain / (Loss) (Table VII)	\$ (533,105)	(15.9%)	
K.	Actuarial Present Value of Vested Accrued Benefits			
	 Members Currently Receiving Benefits (including DROPs) Terminated Vested Members Entitled to 	\$ 7,130,975	212.6%	
	Future Benefits and Miscellaneous	268,206	8.0%	
	3. Active Employees	 3,265,638	97.4%	
	4. Total Actuarial Present Value of Vested Accrued Benefits	\$ 10,664,819	318.0%	
L.	Unfunded Actuarial Present Value of Vested Accrued Benefits (K D.2., not less than zero)	\$ 1,074,417	32.0%	
M.	Vested Benefit Security Ratio (D.2. ÷ K.)	89.9%	N/A	



Police Officers

		Cost	% of
		<u>Data</u>	<u>Payroll</u>
A.	Participant Data Summary (Table III)		
	1. Active Employees	32	N/A
	2. Terminated Vested	3	N/A
	3. Receiving Benefits (including DROPs)	16	N/A
	4. Annual Payroll of Active Employees	\$ 3,007,426	100.0%
В.	Total Normal Cost		
	1. Age Retirement Benefits	\$ 669,621	22.3%
	2. Deferred Vesting Benefits	56,025	1.9%
	3. Disability Benefits	119,411	4.0%
	4. Return of Employee Contributions	7,146	0.2%
	5. Administrative Expenses	 68,328	2.3%
	6. Total Annual Normal Cost	\$ 920,531	30.6%
C.	Total Actuarial Accrued Liability		
	1. Active Employees	\$ 13,280,260	441.6%
	2. Service Retirees and Beneficiaries (including DROPs)	4,384,838	145.8%
	3. Disabilities	556,182	18.5%
	4. Terminated Vested Members	743,289	24.7%
	5. Miscellaneous Liability	 0	0.0%
	6. Total Actuarial Accrued Liability	\$ 18,964,569	630.6%
D.	Plan Assets		
	Net Smoothed Actuarial Value	\$ 17,048,955	566.9%
	2. Net Market Value	\$ 16,609,327	552.3%
E.	Unfunded Actuarial Accrued Liability (C - D.1.)	\$ 1,915,614	63.7%
F.	Minimum Required Contribution		
	1. Total Normal Cost	\$ 920,531	30.6%
	2. Amortization of Unfunded Liability	106,803	3.6%
	3. Interest Adjustment	9,201	0.3%
	4. Total Contribution	\$ 1,036,535	34.5%



Police Officers

		Cost Data	% of Payroll
		<u>Data</u>	<u>r u yron</u>
G.	Expected Payroll of Active Employees for 2021 - 2022 Plan Year (\$3,007,426 x 1.000)	\$ 3,007,426	100.0%
Н.	Expected Contribution Sources (percent of expected 2021 - 2022 payroll)		
	1. Town	\$ 774,867	25.8%
	2. State	21,074	0.7%
	3. Employees	240,594	8.0%
I.	Years to Which Contribution Applies:		
	1. Plan Year Ending	September 30	2022
	2. Town Fiscal Year Ending	September 30	2022
	3. Assumed Date of Town Contribution	October 1, 2	021
J.	Actuarial Gain / (Loss) (Table VII)	\$ 14,094	0.5%
K.	Actuarial Present Value of Vested Accrued Benefits		
	Members Currently Receiving Benefits		
	(including DROPs) 2. Terminated Vested Members Entitled to	\$ 4,941,020	164.3%
	Future Benefits and Miscellaneous	743,289	24.7%
	3. Active Employees	 9,542,650	317.3%
	4. Total Actuarial Present Value of Vested	 _	
	Accrued Benefits	\$ 15,226,959	506.3%
L.	Unfunded Actuarial Present Value of Vested		
	Accrued Benefits (K D.2., not less than zero)	\$ 0	0.0%
M.	Vested Benefit Security Ratio (D.2. ÷ K.)	109.1%	N/A



Both Groups Combined Comparison of Cost Data of October 1, 2019 and October 1, 2020 Valuations

	October 1, 2019			October 1, 2020		
	 Cost	% of Annual	Cost Data		% of Annual	
	 Data	Compensation			Compensation	
A. Participants						
1. Active Employees	99	N/A		91	N/A	
2. Terminated Vested	6	N/A		7	N/A	
3. Receiving Benefits (including DROPs)	40	N/A		49	N/A	
4. Annual Payroll of Active Employees	\$ 6,625,012	100.0%	\$	6,361,141	100.0%	
B. Total Normal Costs	\$ 1,436,002	21.7%	\$	1,421,772	22.4%	
C. Total Actuarial Accrued Liability	\$ 29,250,327	441.5%	\$	32,402,674	509.4%	
D. Net Smoothed Actuarial Value of Assets	\$ 24,401,166	368.3%	\$	26,893,203	422.8%	
E. Unfunded Actuarial Accrued Liability	\$ 4,849,161	73.2%	\$	5,509,471	86.6%	
F. Net Town Minimum Funding Payment	\$ 1,245,078	18.8%	\$	1,305,712	20.5%	
G. Actuarial Gain / (Loss)	\$ 139,765	2.1%	\$	(519,011)	(8.2%)	
H. Unfunded Actuarial Present Value of Vested Accrued Benefits	\$ 0	0.0%	\$	0	0.0%	
I. Vested Benefit Security Ratio	108.6%	N/A		101.2%	N/A	



General Employees / Senior Management Employees

Comparison of Cost Data of October 1, 2019 and October 1, 2020 Valuations

		October 1, 2019			October 1, 2020		
		Cost	% of Annual	Cost		% of Annual	
		Data	Compensation		Data	Compensation	
A. Participants							
1. Active Employees		69	N/A		59	N/A	
2. Terminated Vested		3	N/A		4	N/A	
3. Receiving Benefits (including DROPs)		24	N/A		33	N/A	
4. Annual Payroll of Active Employees	\$	3,901,230	100.0%	\$	3,353,715	100.0%	
B. Total Normal Costs	\$	591,543	15.2%	\$	501,241	14.9%	
C. Total Actuarial Accrued Liability	\$	11,946,969	306.2%	\$	13,438,105	400.7%	
D. Net Smoothed Actuarial Value of Assets	\$	9,053,092	232.1%	\$	9,844,248	293.5%	
E. Unfunded Actuarial Accrued Liability	\$	2,893,877	74.2%	\$	3,593,857	107.2%	
F. Net Town Minimum Funding Payment	\$	521,617	13.4%	\$	530,845	15.8%	
G. Actuarial Gain / (Loss)	\$	(168,055)	(4.3%)	\$	(533,105)	(15.9%)	
H. Unfunded Actuarial Present Value of Vested Accrued Benefits	\$	0	0.0%	\$	1,074,417	32.0%	
vested Accided beliefits	Ş	U	0.0%	Ą	1,0/4,41/	32.0%	
I. Vested Benefit Security Ratio		101.5%	N/A		89.9%	N/A	



Police Officers Comparison of Cost Data of October 1, 2019 and October 1, 2020 Valuations

	October 1, 2019				October 1, 2020		
		Cost	% of Annual	Cost Data		% of Annual	
		Data	Compensation			Compensation	
A. Participants							
1. Active Employees		30	N/A		32	N/A	
2. Terminated Vested		3	N/A		3	N/A	
3. Receiving Benefits (including DROPs)		16	N/A		16	N/A	
4. Annual Payroll of Active Employees	\$	2,723,782	100.0%	\$	3,007,426	100.0%	
B. Total Normal Costs	\$	844,459	31.0%	\$	920,531	30.6%	
C. Total Actuarial Accrued Liability	\$	17,303,358	635.3%	\$	18,964,569	630.6%	
D. Net Smoothed Actuarial Value of Assets	\$	15,348,074	563.5%	\$	17,048,955	566.9%	
E. Unfunded Actuarial Accrued Liability	\$	1,955,284	71.8%	\$	1,915,614	63.7%	
F. Net Town Minimum Funding Payment	\$	723,461	26.6%	\$	774,867	25.8%	
G. Actuarial Gain / (Loss)	\$	307,820	11.3%	\$	14,094	0.5%	
H. Unfunded Actuarial Present Value of Vested Accrued Benefits	\$	0	0.0%	\$	0	0.0%	
I. Vested Benefit Security Ratio		113.4%	N/A		109.1%	N/A	



Characteristics of Participants in Actuarial Valuation as of October 1, 2020

A.	Active Plan Participants Summary	Ma	General/ Senior anagement mployees	Police <u>Officers</u>	<u>Total</u>
	 Active Participants Vested Active Participants Partially Vested Active Participants Non-Vested Total Active Participants Annual Payroll of Active Participants 	\$	16 17 26 59 3,353,715	\$ 24 0 8 32 3,007,426	\$ 40 17 34 91 6,361,141
В.	 Retired and Terminated Vested Participant Summary Service Retirees Receiving Benefits (including DROPs) Beneficiaries Receiving Benefits Disabled Participants Receiving Benefits Terminated Vested Participants Entitled to Future 		26 7 0	11 4 1	37 11 1
	Benefits		4	3	7



Statement of Assets as of October 1, 2020

	Market <u>Value</u>
<u>Investments</u>	
Money market funds \$	215,296
Certificates of deposit	0
U.S. Treasury securities	87,167
U.S. Government agency bonds	0
Municipal obligations	302,946
Corporate bonds	2,748,137
Mortgage backed securities	3,108,016
Equity securities	
- Common stock, American depositary receipts and ETFs	6,318,023
- Mutual funds	11,112,824
- Real estate investment trusts	132,002
SEI Trust	666,186
Core real estate fund	1,493,186
Total Investments \$	26,183,783
Receivables	
Accrued Interest \$	41,905
Other receivables	21,972
Employee contributions	57,364
Due from broker	0
Prepaid expenses	1,845
Total Receivables \$	123,086
<u>Liabilities</u>	
Refunds payable \$	17,284
Accounts payable	39,856
Due to broker	0
Total Liabilities \$	57,140
Assets Available For Benefits \$	26,249,729
<u>Credit Balance</u> \$	50,000
Net Assets Available For Benefits \$	26,199,729



Reconciliation of Plan Assets

			Market
			<u>Value</u>
A.	Value of Assets as of October 1, 2019		\$ 24,188,592
	Adjustment to Value of Assets as of October 1, 2019		 (57,617)
	Value of Assets as of October 1, 2019		\$ 24,130,975
В.	Receipts during Period		
	1. Employee Contributions		\$ 551,523
	2. Service Purchase Contributions		144,916
	3. Town Contributions		1,141,115
	4. Net State Contributions		0
	5. Net Investment Return		
	i. Interest, Dividends and Other Income	\$ 622,374	
	ii. Realized Gains / (Losses)	41,849	
	iii. Unrealized Gains / (Losses)	694,195	
	iv. Investment Expenses	 (91,121)	4 267 207
	v. Net Investment Return		 1,267,297
	6. Total Receipts during Period		\$ 3,104,851
C.	<u>Disbursements during Period</u>		
	1. Benefit Payments		\$ 834,962
	2. DROP Distributions		0
	3. Contribution Refunds		42,964
	4. Administrative Expenses		 108,171
	5. Total Disbursements during Period		\$ 986,097
D.	Value of Assets as of September 30, 2020		\$ 26,249,729
Ε.	<u>Credit Balance</u>		\$ 50,000
F.	Net Value of Assets as of September 30, 2020		\$ 26,199,729
G.	Reconciliation of DROP Account Balances		
	1. DROP Accounts Balance as of October 1, 2019		\$ 22,743
	2. Benefit Payments into DROP Accounts during Year		82,317
	3. Investment Gains / (Losses) during Year		7,156
	4. Distributions from DROP Accounts during Year		 0
	5. DROP Accounts Balance as of September 30, 2020		\$ 112,216



Development of Smoothed Actuarial Value of Assets as of September 30

		<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>
A.	Preliminary smoothed actuarial value from prior year	23,030,736	24,401,166	26,943,203			
В.	Market value end of year	24,188,592	26,249,729				
C.	Market beginning of year	23,309,376	24,188,592	26,249,729			
D.	Non-investment net cash flow	(111,157)	793,840				
E.	Investment return						
	1. Total market value return: B C D.	990,373	1,267,297				
	2. Amount for immediate recognition (7.25%)	1,685,900	1,782,450				
	3. Amount for phased-in recognition: E.1 E.2.	(695,527)	(515,153)				
F.	Phased-in recognition of investment return						
	1. Current year: 20% of E.3.	(139,105)	(103,031)				
	2. First prior year	4,053	(139,105)	(103,031)			
	3. Second prior year	127,859	4,053	(139,105)	(103,031)		
	4. Third prior year	75,973	127,859	4,053	(139,105)	(103,031)	
	5. Fourth prior year	(273,093)	75,971	127,861	4,051	(139,107)	(103,029)
	6. Total phased-in recognition of investment return	(204,313)	(34,253)	(110,222)	(238,085)	(242,138)	(103,029)
G.	Smoothed actuarial value end of year						
	1. Preliminary smoothed actuarial value end of year:						
	A. + D. + E.2. + F.6.	24,401,166	26,943,203				
	2. Upper corridor limit:120% of B.	29,026,310	31,499,675				
	3. Lower corridor limit: 80% of B.	19,350,874	20,999,783				
	4. Smoothed actuarial value end of year:						
	G.1., not more than G.2., nor less than G.3.	24,401,166	26,943,203				
Н.	Difference between market value and smoothed actuarial value	(212,574)	(693,474)				
I.	Smoothed actuarial value rate of return	6.45%	7.05%				
J.	Market value rate of return	4.26%	5.15%				
K.	Credit Balance	0	50,000				
L.	Net smoothed actuarial value: G.4 K.	24,401,166	26,893,203				
-							



Allocation of Smoothed Actuarial Value of Assets for Budgeting Purposes

		(General / Senior		
		M	anagement	Police	
		<u>E</u>	mployees	<u>Officers</u>	<u>Total</u>
A.	Value of Smoothed Assets as of October 1, 2019	\$	9,053,092	\$ 15,348,074	\$ 24,401,166
	Adjustment to Value of Assets as of October 1, 2019		(21,377)	 (36,240)	 (57,617)
	Value of Assets as of October 1, 2019	\$	9,031,715	\$ 15,311,834	\$ 24,343,549
В.	Receipts During Period				
	Employee Contributions	\$	316,190	\$ 235,333	\$ 551,523
	2. Service Purchases		0	144,916	144,916
	3. Town Contributions*		331,161	809,954	1,141,115
	4. State Contributions		0	0	0
	5. Net Investment Return		643,914	1,104,283	1,748,197
	6. Total Receipts During Period	\$	1,291,265	\$ 2,294,486	\$ 3,585,751
C.	<u>Disbursements During Period</u>				
	Pension Benefit Payments	\$	381,425	\$ 453,537	\$ 834,962
	2. DROP Distributions		0	0	0
	3. Contribution Refunds		42,964	0	42,964
	4. Administrative Expenses		39,843	68,328	108,171
	5. Total Disbursements During Period	\$	464,232	\$ 521,865	\$ 986,097
D.	Value of Smoothed Assets as of September 30, 2020	\$	9,858,748	\$ 17,084,455	\$ 26,943,203
E.	Credit Balance*	\$	14,500	\$ 35,500	\$ 50,000
F.	Net Value of Smoothed Assets as of September 30, 2020	\$	9,844,248	\$ 17,048,955	\$ 26,893,203

Any additional contributions/increases in credit balances are allocated between General/Senior Management Employees and Police Officer groups based on the respective Group's budgeted required minimum contribution in relation to the total minimum contribution due for the year.



Funding Standard Account for Plan Year Ended September 30, 2020

A. Charges to the Funding Standard Account

	Prior year funding deficiency	\$ 0
	2. Net minimum charges for the year	945,871
	3. Additional applicable charges for the year	 145,244
	4. Total employer charges	\$ 1,091,115
В.	Credits to the Funding Standard Account	
	Prior year credit balance	\$ 0
	2. Allowable State contribution	0
	3. City contributions	 1,141,115
	4. Total credits	\$ 1,141,115
C.	Credit Balance / (Funding Deficiency) (B.4 A.4.)	\$ 50,000



Actuarial Gain / (Loss) for Plan Year Ended September 30, 2020

A.	<u>De</u>	rivation of Actuarial Gain / (Loss)	General / Senior Management <u>Employees</u>			Police Officers	<u>Total</u>
	1.	Town normal cost previous Actuarial Valuation	\$	279,939	\$	626,556	\$ 906,495
	2.	Net unfunded actuarial accrued liability (UAAL) previous					
		Actuarial Valuation		2,893,877		1,955,284	4,849,161
	3.	Net employer contributions previous year					
		(a) Town		331,161		809,954	1,141,115
		(b) State		0		0	 0
		(c) Total	\$	331,161	\$	809,954	\$ 1,141,115
	4.	Interest on:					
		(a) Employer normal cost	\$	20,296	\$	45,425	\$ 65,721
		(b) Net unfunded actuarial accrued liability		209,806		141,758	351,564
		(c) Net contribution		12,005		29,361	41,366
		(d) Net total: (a) + (b) - (c)	\$	218,097	\$	157,822	\$ 375,919
	5.	Expected net unfunded actuarial accrued liability current year					
		(1. + 2 3. + 4.)	\$	3,060,752	\$	1,929,708	\$ 4,990,460
	6.	Actual net unfunded actuarial accrued liability current year	\$	3,593,857	\$	1,915,614	\$ 5,509,471
	7.	Actuarial gain / (loss): (5 6.)	\$	(533,105)	\$	14,094	\$ (519,011)
В.	<u>Ap</u>	proximate Portion of Gain / (Loss) due to Investments					
	1.	Net smoothed actuarial value of assets previous year	\$	9,031,715	\$	15,311,834	\$ 24,343,549
	2.	Contributions during period		632,851		1,154,703	1,787,554
	3.	Benefits and administrative expenses during period		464,232		521,865	986,097
	4.	Expected appreciation for period		660,912		1,133,048	1,793,960
	5.	Expected net smoothed actuarial value of assets current year					
		(1. + 2 3. + 4.)	\$	9,861,246	\$	17,077,720	\$ 26,938,966
	6.	Actual net smoothed actuarial value of assets current year		9,844,248		17,048,955	26,893,203
	7.	Approximate gain / (loss) due to investments: (6 5.)	\$	(16,998)	\$	(28,765)	\$ (45,763)
C.	<u>Ap</u>	proximate Portion of Gain / (Loss) due to Liabilities: A.7 B.7.	\$	(516,107)	\$	42,859	\$ (473,248)



Table VIII

Amortization of Unfunded Actuarial Accrued Liability

Valuation <u>Date</u>	ι	Infunded <u>Liability</u>	Amortization <u>Payment</u>				
10/01/2020	\$	5,509,471	\$	395,636			
10/01/2021	\$	5,484,588	\$	395,636			
10/01/2022	\$	5,457,901	\$	395,636			
10/01/2023	\$	5,429,279	\$	395,636			
10/01/2024	\$	5,398,582	\$	395,636			
10/01/2050	\$	0	\$	0			



Both Groups Combined

Accounting Disclosure Exhibit

l. <u>Fi</u>	nancial Accounting Standards Board Allocation as of	<u>1</u>	0/01/2019	10/01/2020			
Α.	Statement of Accumulated Plan Benefits						
	Actuarial present value of accumulated vested						
	plan benefits						
	 Participants currently receiving benefits 	\$	9,255,066	\$	12,071,995		
	b. Other participants		13,009,948		13,819,783		
	c. Total	\$	22,265,014	\$	25,891,778		
	2. Actuarial present value of accumulated						
	non-vested plan benefits		1,319,079		1,088,155		
	3. Total actuarial present value of accumulated						
	plan benefits	\$	23,584,093	\$	26,979,933		
В.	Statement of Change in Accumulated Plan Benefits						
	1. Actuarial present value of accumulated plan benefits						
	as of October 1, 2019			\$	23,584,093		
	2. Increase / (decrease) during year attributable to:						
	a. Plan amendment			\$	0		
	b. Change in actuarial assumptions				0		
	c. Benefits paid (includes refunds and DROP distributions)				(877,926)		
	d. Other, including benefits accumulated, increase						
	for interest due to decrease in the discount period				4,273,766		
	e. Net increase			\$	3,395,840		
	3. Actuarial present value of accumulated plan benefits						
	as of October 1, 2020			\$	26,979,933		
C.	Significant Matters Affecting Calculations						
	1. Assumed rate of return used in determining actuarial						
	present values				7.25%		
	2. Change in Plan provisions				None.		
	3. Change in actuarial assumptions				None.		



General Employees / Senior Management Employees

Accounting Disclosure Exhibit

l. <u>Fi</u>	nancial Accounting Standards Board Allocation as of	<u>10</u>	0/01/2019	10/01/2020				
A.	Statement of Accumulated Plan Benefits							
	Actuarial present value of accumulated vested							
	plan benefits							
	 Participants currently receiving benefits 	\$	4,212,804	\$	7,130,975			
	b. Other participants	_	4,632,400		3,533,844			
	c. Total	\$	8,845,204	\$	10,664,819			
	2. Actuarial present value of accumulated							
	non-vested plan benefits		738,812		741,094			
	3. Total actuarial present value of accumulated							
	plan benefits	\$	9,584,016	\$	11,405,913			
В.	Statement of Change in Accumulated Plan Benefits							
	Actuarial present value of accumulated plan benefits							
	as of October 1, 2019			\$	9,584,016			
	2. Increase / (decrease) during year attributable to:							
	a. Plan amendment			\$	0			
	b. Change in actuarial assumptions				0			
	c. Benefits paid (includes refunds and DROP distributions)				(424,389)			
	d. Other, including benefits accumulated, increase							
	for interest due to decrease in the discount period				2,246,286			
	e. Net increase			\$	1,821,897			
	3. Actuarial present value of accumulated plan benefits							
	as of October 1, 2020			\$	11,405,913			
C.	Significant Matters Affecting Calculations							
	Assumed rate of return used in determining actuarial							
	present values				7.25%			
	2. Change in Plan provisions				None.			
	Change in actuarial assumptions				None.			
	<u> </u>							



Police Officers

Accounting Disclosure Exhibit

l. <u>Fi</u>	nancial Accounting Standards Board Allocation as of	<u>1</u>	0/01/2019	10/01/2020				
A.	Statement of Accumulated Plan Benefits							
	Actuarial present value of accumulated vested							
	plan benefits							
	 Participants currently receiving benefits 	\$	5,042,262	\$	4,941,020			
	b. Other participants		8,377,548		10,285,939			
	c. Total	\$	13,419,810	\$	15,226,959			
	2. Actuarial present value of accumulated							
	non-vested plan benefits		580,267		347,061			
	3. Total actuarial present value of accumulated							
	plan benefits	\$	14,000,077	\$	15,574,020			
В.	Statement of Change in Accumulated Plan Benefits							
	Actuarial present value of accumulated plan benefits							
	as of October 1, 2019			\$	14,000,077			
	2. Increase / (decrease) during year attributable to:							
	a. Plan amendment			\$	0			
	b. Change in actuarial assumptions				0			
	c. Benefits paid (includes refunds and DROP distributions)				(453,537)			
	d. Other, including benefits accumulated, increase							
	for interest due to decrease in the discount period				2,027,480			
	e. Net increase			\$	1,573,943			
	3. Actuarial present value of accumulated plan benefits							
	as of October 1, 2020			\$	15,574,020			
C.	Significant Matters Affecting Calculations							
	1. Assumed rate of return used in determining actuarial							
	present values				7.25%			
	2. Change in Plan provisions				None.			
	3. Change in actuarial assumptions				None.			



II. Net Pension Liability and Related Ratios (GASB No. 67 & No. 68)

																	Projected
	Measurement date		9/30/2014		9/30/2015		9/30/2016		9/30/2017		9/30/2018		9/30/2019		9/30/2020	9	/30/2021 *
A.	Total Pension Liability (TPL)																
	Service Cost	\$	888,988	\$	901,998	\$	932,365	\$	1,052,014	\$	1,002,537	\$	1,113,128	\$	1,317,790	\$	1,313,601
	Interest		1,227,596		1,336,817		1,458,652		1,646,114		1,745,881		1,870,676		2,186,887		2,409,770
	Benefit Changes		35,244		0		0		282,066		0		0		2,630,481		0
	Difference Between Actual and Expected Experience		170,264		100,031		(35,527)		297,252		(348,726)		388,826		(293,683)		525,596
	Assumption Changes		0		0		402,655		93,312		0		0		(617,989)		0
	Benefit Payments, including Refunds of Member Contributions		(545,746)		(665,021)		(602,692)		(651,287)		(819,116)		(1,308,821)		(877,926)		(956,133)
	Net Change in Total Pension Liability	\$	1,776,346	\$	1,673,825	\$	2,155,453	\$	2,719,471	\$	1,580,576	\$	2,063,809	\$	4,345,560	\$	3,292,834
	Total Pension Liability (TPL) - (beginning of year)		15,562,038		17,338,384		19,012,209		21,167,662		23,887,133		25,467,709		27,531,518		31,877,078
	Total Pension Liability (TPL) - (end of year)	\$	17,338,384	\$	19,012,209	\$	21,167,662	\$	23,887,133	\$	25,467,709	\$	27,531,518	\$	31,877,078	\$	35,169,912
В.	Plan Fiduciary Net Position																
ь.	Contributions - Town and State	۲.	631,584	\$	727,022	Ś	757,304	Ļ	797,359	\$	917,274	\$	817,472	Ś	1,141,115	Ś	1,264,960
	Contributions - Nember	Ş	349,600	Ş	391,213	Ş	383,619	Ş	462,846	Ą	459,190	Ą	498,404	Ą	696,439	Ş	508,891
	Net Investment Income		1,396,431		(132,329)		1,850,417		2,017,750		1,579,816		990,373		1,267,297		1,928,826
	Benefit Payments, including Refunds of Member Contributions		(545,746)		(665,021)		(602,692)		(651,287)		(819,116)		(1,308,821)		(877,926)		(956,133)
	Administrative Expenses		(80,194)		(85,426)		(130,686)		(85,518)		(120,389)		(1,308,821)		(108,171)		(108,171)
	Other		(80,194)		(85,420)		(130,000)		(65,516)		(120,369)		(110,212)		(57,617)		(108,171)
	Net Change in Plan Fiduciary Net Position	Ċ	1,751,675	Ś	235,459	Ś	2,257,962	Ś	2,541,150	Ś	2,016,775	Ś	879,216	Ś	2,061,137	\$	2,638,373
	Plan Fiduciary Net Position - (beginning of year)	Ş	14,506,355	Ş	16,258,030	Ş	16,493,489	Ş	18,751,451	Ş	21,292,601	Ş	23,309,376	Ş	24,188,592	Ş	26,249,729
	Plan Fiduciary Net Position - (beginning of year)	Ċ	16,258,030	Ś	16,493,489	Ś	18,751,451	Ś	21,292,601	Ċ	23,309,376	ć	24,188,592	Ś	26,249,729	Ċ	28,888,102
	Fian Fiduciary Net Position - (end of year)	ې	10,238,030	<u>ې</u>	10,493,469	٠	16,731,431	٦	21,292,001	<u>ې</u>	23,309,370	ې	24,100,392	ې	20,249,729	۲	20,000,102
C.	Net Pension Liability (NPL) - (end of year): (A) - (B)	\$	1,080,354	\$	2,518,720	\$	2,416,211	\$	2,594,532	\$	2,158,333	\$	3,342,926	\$	5,627,349	\$	6,281,810
D.	Plan Fiduciary Net Position as a Percentage of TPL: (B) / (A)		93.77 %		86.75 %		88.59 %		89.14 %		91.53 %		87.86 %		82.35 %		82.14 %
E.	Covered Payroll **	Ś	5,103,795	Ś	5,321,296	Ś	5,710,172	Ś	5,766,823	Ś	5,849,505	\$	6,239,285	Ś	6,702,791	Ś	6,361,141
	·		, ,	·		·	, ,	·	, ,		, ,	·			, ,		, ,
F.	NPL as a Percentage of Covered Payroll: (C) / (E)		21.17 %		47.33 %		42.31 %		44.99 %		36.90 %		53.58 %		83.96 %		98.75 %
G.	Notes to Schedule:																
	Valuation Date		10/01/2013		10/01/2014		10/01/2015		10/01/2016		10/01/2017		10/01/2018		10/01/2019		10/01/2020
	Reporting Date (GASB No. 68)		9/30/2015		9/30/2016		9/30/2017		9/30/2018		9/30/2019		9/30/2020		9/30/2021		9/30/2022
			3,00,2013		3,00,2010		5,00,201,		3,00,2010		3,00,2013		3, 55, 2520		3,00,2021		-,00,2022

Update procedures used to roll forward TPL excluding DROP account balances to the measurement dates - actual DROP account balances as of measurement dates included in TPL.

See Table IX, Item IV. for a history of benefit and assumption changes prior to September 30, 2020 measurement date. For measurement period ending September 30, 2020: Benefit Changes - normal and early retirement eligibility was updated for Police Officers, General and Senior Management members, maximum benefit was updated to 80% for General members and the COLA was updated from 1.5% to 2.0% for retirements after January 14, 2020 for Police Officers and January 1, 2020 for General and Senior Management members; Assumption Changes - mortality assumptions and retirement rates for General and Senior Management members updated.

^{**} Reported payroll used to determine contribution as provided under GASB No. 82.



^{*} Projected - actual amounts will be available after fiscal year end.

III. Schedule of Employer Contributions (GASB No. 67 & No. 68)

Fiscal Year End 9/30				Actual ntribution	ontribution Deficiency (Excess)	Covered Payroll ^{1,2}	Actual Contribution as a % of Covered Payroll		
2011	\$	625,963	\$	625,963	\$ 0	\$ 4,016,852	15.58%		
2012		515,440		515,440	0	4,053,208	12.72%		
2013		534,209		534,209	0	4,359,957	12.25%		
2014		631,584		631,584	0	5,103,795	12.37%		
2015		727,022		727,022	0	5,321,296	13.66%		
2016		757,304		757,304	0	5,710,172	13.26%		
2017		797,359		797,359	0	5,766,823	13.83%		
2018		917,274		917,274	0	5,849,505	15.68%		
2019		817,472		817,472	0	6,239,285	13.10%		
2020		945,871		1,141,115	(195,244)	6,702,791	17.02%		
2021 ³		1,264,960		1,264,960	0	6,361,141	19.89%		

¹ Projected prior to fiscal year ended September 30, 2014



 $^{^{2}\,}$ Reported payroll on which contributions to the Plan are based as provided under GASB No. 82

³ Projected - actual amounts will be available after fiscal year end

IV. Notes to Schedule of Contributions (GASB No. 67 & No. 68)

Valuation Date: Actuarially determined contributions are calculated as of October 1st - two years prior the fiscal year

end in which contributions are reported.

Methods and Assumptions Used to Determine Contribution Rates for Fiscal Year Ended September 30, 2020:

Actuarial Cost Method Entry Age

Amortization Method Level dollar amount, Closed

Amortization Period 30 years

Asset Valuation Method 5-year smoothed market

Inflation 2.5%
Salary Increases 4.0% - 8.0%
Investment Rate of Return 7.25%

Retirement Age Experience-based table of rates that are specific to the type of eligibility condition

Mortality For healthy Police Officers during employment, RP 2000 Combined Healthy Participant Mortality Tables, separate rates for males and females, with 10% White Collar / 90% Blue Collar Adjustment and

fully generational mortality improvements projected to each future decrement date with Scale BB. For healthy Police Officers post employment, RP 2000 Annuitant Mortality Tables, separate rates for males, and females, with 10% White Collar / 20% Blue Collar Adjustment, and fully generational

males and females, with 10% White Collar / 90% Blue Collar Adjustment and fully generational

mortality improvements projected to each future decrement date with Scale BB.

For healthy General Employees during employment, RP 2000 Combined Male Healthy Participant Mortality Table, with 50% White Collar / 50% Blue Collar Adjustment for males - RP 2000 Combined Female Healthy Participant Mortality Table, with White Collar Adjustment for females and fully generational mortality improvements projected to each future decrement date with Scale BB. For healthy General Employees post employment, RP 2000 Annuitant Male Mortality Table, with 50% White Collar / 50% Blue Collar Adjustment for males - RP 2000 Annuitant Female Mortality Table, with White Collar Adjustment for females and fully generational mortality improvements projected to each future decrement date with Scale BB.

For disabled male Police Officers, 60% RP 2000 Disabled Male Mortality Table setback four years / 40% RP 2000 Annuitant Male Mortality Table, with White Collar Adjustment and no setback, without projected mortality improvements. For disabled female Police Officers, 60% RP 2000 Disabled Female Mortality Table set forward two years / 40% RP 2000 Annuitant Female Mortality Table, with White Collar Adjustment, without projected mortality improvements.

For disabled male General Employees, RP 2000 Disabled Male Mortality Table, setback four years, without projected mortality improvements. For disabled female General Employees, RP 2000 Disabled Female Mortality Table, set forward two years, without projected mortality improvements.

Cost of Living Adjustment 1.5%

Other Information:

Benefit Changes

2016: Created a senior management member class, changed retirement eligibility and vesting for Town Attorney along with increased benefit accrual rates, benefit cap and employee contributions for general employees and senior management. 2013: Police Officers - normal retirement eligibility updated to include completion of 15 years and 4 months of service if hired on a full time basis in March 2003; General Employees - may enter DROP upon attainment of normal retirement. 2012: Police Officers - normal retirement eligibility updated to the earliest of (1) age 52 with 20 years of Creditable Service, (2) age 62 with 5 years of Creditable Service or (3) completion of 25 years of Creditable Service. 2011: Town Manager and Town Attorney allowed to opt out of Plan. 2009: Member contributions picked-up by the Town.



IV. Notes to Schedule of Contributions (GASB No. 67 & No. 68) (cont'd)

Assumption Changes

2016: Mortality rates updated for healthy participants per State statute. 2015: Investment return updated from 7.5% to 7.25%; mortality, withdrawal rates, salary increase factors and retirement rates updated. 2012: Mortality assumption for healthy General Employees updated to RP 2000 Combined Mortality Table (RP 2000 Disabled Mortality Table for disabled lives), separate rates for males and females, 15 years generational projection from valuation date for actives - 7 years generational projection from valuation date for inactives with Scale AA; mortality assumption for healthy Police Officer participants updated to RP 2000 Combined Mortality Table with Blue Collar Adjustment, separate rates for males and females, 15 years generational projection from valuation date for actives - 7 years generational projection from valuation date for inactives with Scale AA. 2010: Salary increase factors updated.

V. <u>Discount Rate (GASB No. 67 & No. 68)</u>

A discount rate of 7.25% was used to measure the TPL. This discount rate was based on the expected rate of return on Plan investments of 7.25%. The projection of cash flows used to determine this discount rate assumed member contributions will be made at the current member contribution rate and employer contributions will be made at rates equal to the difference between actuarially determined current contribution rates and the member contribution rate. Based on these assumptions, the pension Plan's fiduciary net position was projected to be available to make all projected future expected benefit payments of current Plan members. Therefore, the long-term expected rate of return on Plan investments was applied to all periods of projected benefit payments to determine the TPL.

VI. Sensitivity of the NPL to the Discount Rate Assumption (GASB No. 67 & No. 68)

Measurement date: September 30, 2020

		Current							
	1	1% Decrease		Discount Rate		1% Increase			
Discount Rate		6.25%		7.25%		8.25%			
NPL	\$	10,279,797	\$	5,627,349	\$	1,834,157			

Measurement date: September 30, 2021 *

		Current						
	1	1% Decrease		Discount Rate		1% Increase		
Discount Rate		6.25%		7.25%		8.25%		
NPL	\$	11,292,084	\$	6,281,810	\$	2,195,613		

^{*} Projected - actual amounts will be available after fiscal year end



VII. Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions -Reporting Date (GASB No. 68)

Pension Expense for Fiscal Year Ending September 30, 2021

\$ 3,811,616

Summary of Outstanding Deferred Inflows and Outflows of Resources as of September 30, 2021

		rred Outflows Resources	 Deferred Inflows of Resources	
Differences between actual and expected experience on liabilities	\$	380,986	\$ 423,855	
Changes of assumptions or other inputs		116,202	509,570	
Net difference between projected and actual earnings on pension Plan investments		691,803	 0	
Total	\$	1,188,991	\$ 933,425	
Projected Deferred Outflows for Town Contributions after the	Measur	ement Date	\$ 1,245,078	

Summary of Deferred Outflows and Inflows of Resources that will be Recognized in Pension Expense in Future Years.

Year Ending 30-Sep	Amount
2022	\$ 90,919
2023	163,824
2024	99,999
2025	6,412
2026	(105,588)
Thereafter	0



The following information is not required to be disclosed but is provided for informational purposes.

VIII. Components of Pension Expense (GASB No. 68)

								Projected
Measurement Date	9/30/2014	9/30/2015	9/30/2016	9/30/2017	9/30/2018	9/30/2019	9/30/2020	9/30/2021 *
Service Cost	\$ 888,988	\$ 901,998	\$ 932,365	\$ 1,052,014	\$ 1,002,537	\$ 1,113,128	\$ 1,317,790	\$ 1,313,601
Interest on Total Pension Liability	1,227,596	1,336,817	1,458,652	1,646,114	1,745,881	1,870,676	2,186,887	2,409,770
Current-Period Benefit Changes	35,244	0	0	282,066	0	0	2,630,481	0
Contributions - Member	(349,600)	(391,213)	(383,619)	(462,846)	(459,190)	(498,404)	(696,439)	(508,891)
Projected Earnings on Plan Investments	(1,101,298)	(1,233,144)	(1,210,551)	(1,378,453)	(1,559,553)	(1,685,900)	(1,780,361)	(1,928,826)
Administrative Expenses	80,194	85,426	130,686	85,518	120,389	118,212	108,171	108,171
Other Changes in Plan Fiduciary Net Position	0	0	0	0	0	0	57,617	0
Recognition of Beginning Deferred Outflows / (Inflows) due to Liabilities	23,981	38,691	96,965	159,959	101,838	165,580	5,638	82,191
Recognition of Beginning Deferred Outflows / (Inflows) due to Assets	(59,027)	214,068	86,095	(41,764)	(45,815)	152,313	(18,168)	109,804
Total Pension Expense	\$ 746,078	\$ 952,643	\$ 1,110,593	\$ 1,342,608	\$ 906,087	\$ 1,235,605	\$ 3,811,616	\$ 1,585,820

^{*} Projected - actual amounts will be available after measurement date



The following information is not required to be disclosed but is provided for informational purposes.

IX. Recognition of Deferred Outflows and (Inflows) due to Liabilities - Measurement Date (GASB No. 68)

Recognition of Deferred Outflows due to Differences Between Actual and Expected Experience on Liabilities

Established	Initi	al Balance	Initial Recognition Period	Remaining Recognition Period as of 9/30/2020	J	nition Amount 2019 / 2020	Balance as of 9/30/2020
2013 / 2014	\$	170,264	7.1	0.1	\$	23,981	\$ 2,397
2014 / 2015		100,031	6.8	0.8		14,710	11,771
2015 / 2016		0	6.3	1.3		0	0
2016 / 2017		297,252	6.2	2.2		47,944	105,476
2017 / 2018		0	6.0	3.0		0	0
2018 / 2019		388,826	6.1	4.1		63,742	261,342
2019 / 2020		0	5.7	4.7		0	0
				TOTAL	\$	150,377	\$ 380,986

Recognition of Deferred (Inflows) due to Differences Between Actual and Expected Experience on Liabilities

Established	Initial Balance	Initial Recognition Period	Remaining Recognition Period as of 9/30/2020	J	tion Amount 019 / 2020	Balance as of 9/30/2020
2013 / 2014	\$ 0	7.1	0.1	\$	0	\$ 0
2014 / 2015	0	6.8	0.8		0	0
2015 / 2016	(35,527)	6.3	1.3		(5,639)	(7,332)
2016 / 2017	0	6.2	2.2		0	0
2017 / 2018	(348,726)	6.0	3.0		(58,121)	(174,363)
2018 / 2019	0	6.1	4.1		0	0
2019 / 2020	(293,683)	5.7	4.7		(51,523)	(242,160)
			TOTAL	\$	(115,283)	\$ (423,855)

Recognition of Deferred Outflows due to Changes of Assumptions or Other Inputs

Established	Initial Balance	Initial Recognition Period	Remaining Recognition Period as of 9/30/2020	•	ition Amount 019 / 2020	Balance as of 9/30/2020
2013 / 2014	\$ 0	7.1	0.1	\$	0	\$ 0
2014 / 2015	0	6.8	0.8		0	0
2015 / 2016	402,655	6.3	1.3		63,913	83,090
2016 / 2017	93,312	6.2	2.2		15,050	33,112
2017 / 2018	0	6.0	3.0		0	0
2018 / 2019	0	6.1	4.1		0	0
2019 / 2020	0	5.7	4.7		0	0
			TOTAL	\$	78,963	\$ 116,202



The following information is not required to be disclosed but is provided for informational purposes.

IX. Recognition of Deferred Outflows and (Inflows) due to Liabilities - Measurement Date (GASB No. 68) (cont'd) Recognition of Deferred (Inflows) due to Changes of Assumptions or Other Inputs

					Remaining			
				Initial	Recognition	Re	cognition	
			Re	ecognition	Period as of	An	nount for	Balance as of
Е	stablished	Initial Balanc	е	Period	9/30/2020	20	19 / 2020	9/30/2020
								_
2	013 / 2014	\$	0	7.1	0.1	\$	0	\$ 0
2	014 / 2015		0	6.8	0.8		0	0
2	015 / 2016		0	6.3	1.3		0	0
2	016 / 2017		0	6.2	2.2		0	0
2	017 / 2018		0	6.0	3.0		0	0
2	018 / 2019		0	6.1	4.1		0	0
2	019 / 2020	(617,98	9)	5.7	4.7		(108,419)	(509,570)
					TOTAL	\$	(108,419)	\$ (509,570)

X. Recognition of Deferred Outflows and (Inflows) Due to Assets - Measurement Date (GASB No. 68)

Recognition of Deferred Outflows / (Inflows) due to Difference Between Projected and Actual Earnings on **Pension Plan Investments**

_	Established	Init	ial Balance	Initial Recognition Period	Remaining Recognition Period as of 9/30/2020	Aı	ecognition mount for 119 / 2020		Balance as of 9/30/2020
	2015 / 2016	\$	(639,866)	5	0	\$	(127,974)	\$	0
	2016 / 2017		(639,297)	5	1		(127,859)		(127,861)
	2017 / 2018		(20,263)	5	2		(4,053)		(8,104)
	2018 / 2019		695,527	5	3		139,105		417,317
	2019 / 2020		513,064	5	4		102,613		410,451
							(_	
					TOTAL	\$	(18,168)	Ş	691,803



A. Effective Date:

January 1, 1962. Most recent amendatory Ordinance considered: 2020-1711.

B. Eligibility Requirements:

All regular, full-time employees are eligible upon employment. The Town Manager and Town Attorney have the right to opt out of the Plan.

C. Creditable Service:

All service of a member measured in years and completed calendar months since latest date of hire with the Town.

D. Average Final Compensation (AFC):

The average of basic compensation during the highest three years (five years for General Employees) of the ten years preceding termination of employment; does not include bonuses, overtime, lump sum payments of unused leave or other nonregular payments.

E. Normal Retirement:

1. Eligibility:

For sworn Police Officers retired prior to February 1, 2020, the earliest of (1) age 52 with 20 years of Creditable Service, (2) age 62 with 5 years of Creditable Service, (3) completion of 25 years of Creditable Service or (4) the completion of 15 years and 4 months of service if hired on a full time basis in March 2003. For sworn Police Officers retired on or after February 1, 2020, the earliest of (1) age 50 with 20 years of Creditable Service, (2) age 59 with 5 years of Creditable Service, (3) completion of 25 years of Creditable Service or (4) the completion of 15 years and 4 months of service if hired on a full time basis in March 2003.

For a participating Town Manager and the Town Attorney, the earlier of (1) age 62 with 15 years of Creditable Service or (2) age 64 with 7 years of Creditable Service.

For all other employees who retire prior to January 1, 2020, the earliest of (1) age 62 with 15 years of Creditable Service or (2) age 65 with 10 years of Creditable Service. For all other employees who retire on or after January 1, 2020, the earliest of (1) age 50 with 20 years of Creditable Service or (2) age 52 with 15 years of Creditable Service or (3) age 55 with 10 years of Creditable Service.

2. Benefit:

	Benefit Accrual Rate per Year of Service Based on Employee Contribution Rate of					
Period of Service	5%	6%	7%	8%		
Before 10/1/1979	1 2/3%	N/A	N/A	N/A		
10/1/1979 - 6/30/1996	1 2/3%	N/A	2.0%	N/A		
7/1/1996 - 1/31/2003	1 2/3%	N/A	2.0%	2.5%		
2/1/2003 - 9/30/2005	2.0%	2.5%	N/A	N/A		
10/1/2005 - 9/30/2006	2.0%	2.5%	N/A	3.0% ¹		
10/1/2006 - 9/30/2016	2.0%	2.5%	N/A	3.5% ¹		
10/1/2016 forward	N/A	N/A	2.65%²	2.8% ² / 3.0% ³ / 3.5% ¹		

Maximum benefit is 90% (75% prior to October 1, 2006) of AFC for Police Officers, 80% (68% prior to January 1, 2020, 60% prior to October 1, 2016) of AFC for General Employees and 80% (60% prior to October 1, 2016) of AFC for Senior Management Employees.

³ For Senior Management Employees only.



¹ For Police Officers only.

² For General Employees only.

3. Form of Payment:

Straight life annuity with guaranteed refund of Accumulated Contributions (with options available).

F. <u>Early Retirement:</u>

1. Eligibility:

For sworn Police Officers, Town Manager and Attorney, the earlier of (a) age 55 with 15 years of Creditable Service, or (b) 20 years of Creditable Service regardless of age. For all other employees effective January 1, 2020, 20 years of Creditable Service regardless of age (prior to January 1, 2020 eligibility was the earlier of (a) age 55 with 15 years of Creditable Service, or (b) 20 years of Creditable Service regardless of age).

2. Benefit:

Same as Normal Retirement Benefit using AFC and Creditable Service as of Early Retirement Date but payable at Normal Retirement Date assuming continued employment. Alternatively, benefits may commence immediately after reduction of 0.5% for each month early.

G. Delayed Retirement:

1. Eligibility:

Retirement after Normal Retirement Date.

2. Benefit:

Calculated in the same manner as Normal Retirement Benefit using AFC and Creditable Service as of delayed retirement date.

H. Disability Retirement:

1. Service Connected:

a) Eligibility:

Total and permanent disability incurred prior to normal retirement date as a direct result of performance of service to the Town and eligible for Social Security disability benefits.

b) Benefit:

75% (if injury) or 45% (if disease) of the rate of pay in effect on date of disability payable for life or until recovery. For General Employees, less Social Security disability benefits; there is an offset for Workers' Compensation to the extent that the disability benefit plus the Workers' Compensation benefit exceed 100% of preretirement salary.

2. Non-Service Connected:

a) Eligibility:

Total and permanent disability not incurred as a direct result of performance of service to the Town.



b) Benefit:

Accrued pension benefit.

Death Benefit: ١.

1. Pre-Retirement:

Refund of Accumulated Contributions

2. After Normal Retirement Date but before Actual Retirement:

Survivor benefit payable in accordance with optional form of benefit chosen by member.

3. After Retirement:

Refund of any remaining Accumulated Contributions or optional survivor's benefits if elected.

Accumulated Contributions:

The sum of all amounts contributed by members including 4% interest on contributions made after January 1, 1979. Effective January 1, 2009, member contributions are picked-up by the Town.

K. Termination Benefit:

Upon termination prior to normal or early retirement date a member shall be entitled to choose (1) or (2) below, where:

- 1. A refund of Accumulated Contributions.
- 2. The benefit as for normal retirement using AFC and Creditable Service as of date of termination multiplied by the applicable percentage on the table below, commencing upon the earliest date a member would have attained normal retirement had he remained in service (age 65 for General Employees).

	<u>Percer</u>	ntage_
Years of Creditable Service	General Employees	Police Officers
<u>Creditable Service</u>	<u>Employees</u>	<u>Officers</u>
Less than 5	0%	0%
5	50%	100%
6	60%	100%
7	70%	100%
8	80%	100%
9	90%	100%
10 or more	100%	100%

3. A participating Town Manager and the Town Attorney 100% vested upon completion of 7 years of Creditable Service.



L. Cost of Living Increase

For Police Officers who retire on or before January 14, 2020, a 1.5% automatic annual cost of living increase is provided for retirees, disableds, beneficiaries and vested terminated members. For Police Officers who retire after January 14, 2020, a 2.0% automatic annual cost of living increase is provided for retirees, disableds, beneficiaries and vested terminated members.

For General and Senior Management retirees, disableds, beneficiaries and vested terminated members who retire before January 1, 2020, a 1.5% automatic annual cost of living increase is provided. For General and Senior Management retirees, disableds, beneficiaries and vested terminated members who retire on or after January 1, 2020, a 2.0% automatic annual cost of living increase is provided.

M. <u>Deferred Retirement Option Program (DROP)</u>

- 1. Eligibility: Attainment of normal retirement date.
- 2. The maximum period of participation in the DROP is five (5) years.
- 3. An employee's account in the DROP program shall be credited with interest based upon actual Fund investment return.
- 4. No payment may be made from DROP until the employee actually separates from service with the Town.

N. Changes Since Previous Actuarial Valuation

None.



Mortality Α.

General Mortality Assumptions:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without mortality improvements projected.

	Pre-retirement			tirement		
Sample	Futu	re Life	Futu	re Life		
Ages	Expectan	cy (Years)	Expectan	cy (Years)		
(2020)	Male	Female	Male	Female		
55	32.58	35.02	28.63	32.38		
60	27.74	30.00	24.55	27.84		
62	25.85	28.02	22.93	26.02		
	Dro rot	irement	Post ro	tiromont		
Camanda			Post-retirement			
Sample		re Life		re Life		
Ages	Expectan	cy (Years)	Expectan	cy (Years)		
(2040)	Male	Female	Male	Female		
55	34.22	36.50	30.64	34.15		
60	29.30	31.44	26.40	29.51		
62	27.37	29.43	24.72	27.63		

Police Mortality Assumptions:

For healthy participants during employment, PUB-2010 Headcount Weighted Safety Employee Female Mortality Table and Safety Below Median Employee Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For healthy participants post employment, PUB-2010 Headcount Weighted Safety Healthy Retiree Female Mortality Table and Safety Below Median Healthy Retiree Male Mortality Table, both set forward 1 year, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For disabled participants, 80% PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table / 20% PUB-2010 Headcount Weighted Safety Disabled Retiree Mortality Table, separate rates for males and females, without mortality improvements projected.



A. Mortality (cont'd)

	Pre-ret	rirement	Post-re	tirement		
Sample	Futu	re Life	Futu	re Life		
Ages	Expectar	ncy (Years)	Expectan	cy (Years)		
(2020)	Male	Female	Male	Female		
55	30.45	34.32	27.59	31.17		
60	25.51	29.26	23.01	26.39		
62	23.58	27.25	21.28	24.55		
	Due not		Doot was			
		rirement	Post-retirement			
Sample	Futu	re Life	Futu	re Life		
Ages	Expectar	ncy (Years)	Expectan	cy (Years)		
(2040)	Male	Female	Male	Female		
55	32.09	35.81	29.48	33.00		
60	27.08	30.70	24.79	28.13		
	27.00	30.70	•	_00		

B. <u>Investment Return</u>

7.25%, compounded annually - net of investment expenses includes inflation at 2.50%.

C. <u>Allowances for Expenses or Contingencies</u>

Estimated expenses for upcoming year, not including investment related expenses.

D. <u>Employee Withdrawal Rates</u>

Withdrawal rates for males and females were used in accordance with the following illustrative examples:

General Employees				
<u>Age</u>	<u>Withdrawal</u>			
	<u>Rate</u>			
Under 25	30.0%			
25 - 29	20.0%			
30 - 34	15.0%			
35 - 39	10.0%			
40 - 44	9.0%			
45 - 49	8.0%			
50 - 54	7.0%			
55 - 60	6.0%			
60 & over	5.0%			



D. Employee Withdrawal Rates (cont'd)

Police Officers					
Service Withdrawal Rat					
0 - 4	12.0%				
5 - 6	10.0%				
7	5.0%				
8	2.0%				
9 & over	1.0%				

E. Salary Increase Factors

Current salary is assumed to increase at a rate based on the tables below - includes assumed wage inflation of 3.0%.

General Employees				
Service Salary Increase				
0 - 3	6.5%			
4 - 5	6.0%			
6	5.0%			
7 - 9	4.5%			
10 & over	4.0%			

Police Officers				
Service Salary Increase				
0 - 2	8.0%			
3	7.0%			
4 - 5	6.0%			
6	5.0%			
7 & over	4.0%			

Disability Benefits

1. Rates: See table below

2. Percent Service Connected: 25% for General, 80% for Police.

3. Assume 50% of Service Connected Disabilities are due to injury

	Annual Rate of Disability				
	General Police				
Age	Employees Department				
20	0.07%	0.14%			
30	0.11%	0.18%			
40	0.19% 0.30%				
50	0.51% 1.00%				
60	1.66% 0.00%				



G. Smoothed Actuarial Value of Assets

The method used for determining the smoothed actuarial value of assets phases in the deviation between the expected and actual return on assets at the rate of 20% per year. The smoothed actuarial value of assets will be further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the fair market value of Plan assets and whose upper limit is 120% of the fair market value of Plan assets.

H. Assumed Retirement Age

	Annual Rate of Retirement*					
	General	Senior		Police		
Age	Employees	Mangement	Age	Officers		
Rates when the r	naximum benefit cap	is not applicable				
40	N/A	N/A	40	3%		
41-45	4%	4%	41-45	2%		
46-47	3%	3%	46-47	1%		
48-49	2%	2%	48-50	1%		
50-64	5%	5%	51 & over	1%		
65-69	50%	50%	NRA	50%		
70	100%	100%	Past NRA	50%		
Rates when the	e maximum benefit c	ap is applicable				
50-64	100%	35%				
65-69	100%	50%				
70	100%	100%				

100% of members are assumed to retire upon reaching age 65 for Police Officers.

I. Marriage Assumption

100% of all members are assumed to be married. Wives are assumed to be three years younger than their husbands.

J. <u>Actuarial Funding Method</u>

Normal Retirement, Termination, Disability, and Death Benefits: Entry-Age-Actuarial Cost Method.

Under this method the normal cost for each active employee is the amount which is calculated to be a level percentage of pay that would be required annually from his age at hire to his assumed retirement age to fund his estimated benefits, assuming the Plan has always been in effect. The normal cost for the Plan is the sum of such amounts for all employees. The actuarial accrued liability as of any valuation date for each active employee or inactive employee who is eligible to receive benefits under the Plan is the excess of the actuarial present value of estimated future benefits over the actuarial present value of current and future normal costs. The unfunded actuarial accrued liability as of any valuation date is the excess of the actuarial accrued liability over the smoothed actuarial value of assets of the Plan.



^{*} For Employees who meet the age and service eligibility requirements for normal or early retirement

Actuarial Funding Method (cont'd)

Vested Normal Retirement, Termination, Disability, and Death Benefits: Unit Credit Cost Method

Under this method, the actuarial present value of vested accrued benefits is an amount calculated to be the sum of the present values of each individual's vested accrued or earned benefit under the Plan as of the valuation date. Each individual's calculation is based on pay and service as of the valuation date.

K. Change Since Previous Actuarial Valuation

None.



Distribution of Plan Participants by Attained Age Groups and Service Groups as of October 1, 2020

General Employees / Senior Management Employees

Completed Years of Service Since Hire

Attained											
Age Group	0 - 4	<u>5 - 9</u>	<u> 10 - 14</u>	<u> 15 - 19</u>	<u> 20 - 24</u>	<u> 25 - 29</u>	<u> 30 - 34</u>	<u> 35 - 39</u>	<u>40 +</u>	<u>Total</u>	
0 - 24	1	-	-	-	-	-	-	-	-	1	
25 - 29	4	-	-	-	-	-	-	-	-	4	
30 - 34	4	5	-	-	-	-	-	-	-	9	
35 - 39	1	2	-	1	-	-	-	-	-	4	
40 - 44	3	4	1	1	-	-	-	-	-	9	
45 - 49	3	1	3	2	2	-	-	-	-	11	
50 - 54	6	1	1	-	2	-	-	-	-	10	
55 - 59	4	2	1	2	-	-	-	-	-	9	
60 - 64	-	1	-	-	-	-	-	-	-	1	
65 - 69	-	-	-	-	-	-	-	-	-	0	
70 +	-	1	-	-	-	-	-	-	-	1	
TOTAL	26	17	6	6	4	0	0	0	0	59	

	<u>Prior Year</u>	<u>Current Year</u>				
Average Pay	\$ 56,540	\$ 56,843				
Average Service	7.99 years	7.64 years				
Percent Female	39.1%	37.3%				



Distribution of Plan Participants by Attained Age Groups and Service Groups as of October 1, 2020

Police Officers

Completed Years of Service Since Hire

Attained										
Age Group	<u>0 - 4</u>	<u>5 - 9</u>	<u> 10 - 14</u>	<u> 15 - 19</u>	<u> 20 - 24</u>	<u>25 - 29</u>	<u> 30 - 34</u>	<u>35 - 39</u>	<u>40 +</u>	<u>Total</u>
0 - 24	1	-	-	-	-	-	-	-	-	1
25 - 29	2	1	-	-	-	-	-	-	-	3
30 - 34	-	1	1	-	-	-	-	-	-	2
35 - 39	1	1	1	2	-	-	-	-	-	5
40 - 44	2	-	3	2	1	-	-	-	-	8
45 - 49	-	-	3	1	-	-	-	-	-	4
50 - 54	1	1	2	-	-	1	-	-	-	5
55 - 59	1	2	-	1	-	-	-	-	-	4
60 - 64	-	-	-	-	-	-	-	-	-	0
65 - 69	-	-	-	-	-	-	-	-	-	0
70 +	-	-	-	-	-	-	-	-	-	0
TOTAL	8	6	10	6	1	1	0	0	0	32

	<u>Prior Year</u>	Current Year			
Average Pay	\$ 90,793	\$ 93,982			
Average Service	10.51 years	10.88 years			
Percent Female	16.7%	15.6%			



Both Groups Combined

Summary of Participant Data

	10/01/2019		10/01/2020		
Active Participants					
Number: Fully Vested		47		40	
Partially Vested		17		17	
Non-Vested		35		34	
Total		99		91	
Average Attained Age		44.89 years		44.17 years	
Average Years of Service		8.75 years		8.78 years	
Average Compensation	\$	66,919	\$	69,903	
Inactive Participants Receiving Benefits (including DROPs)					
Number		40		49	
Average Age at Retirement		61.12 years		60.29 years	
Average Annual Benefit	\$	21,472	\$	21,661	
Inactive Participants Due Deferred Benefits					
Number		6		7	
Average Age at Commencement		60.00 years		60.71 years	
Average Annual Benefit	\$	17,947	\$	18,925	



General Employees / Senior Management Employees

Summary of Participant Data

	1	0/01/2019	10/01/2020		
Active Participants					
Number: Fully Vested		25		16	
Partially Vested		17		17	
Non-Vested		27		26	
Total		69		59	
Average Attained Age		45.63 years		44.67 years	
Average Years of Service		7.99 years		7.64 years	
Average Compensation	\$	56,540	\$	56,843	
Inactive Participants Receiving Benefits (including DROPs)					
Number		24		33	
Average Age at Retirement		61.70 years		60.56 years	
Average Annual Benefit	\$	16,147	\$	17,850	
Inactive Participants Due Deferred Benefits					
Number		3		4	
Average Age at Commencement		65.00 years		65.00 years	
Average Annual Benefit	\$	12,881	\$	15,859	



Police Officers

Summary of Participant Data

	1	0/01/2019	1	.0/01/2020
Active Participants				
Number: Fully Vested		22		24
Partially Vested		0		0
Non-Vested		8		8
Total		30		32
Average Attained Age		43.20 years		43.24 years
Average Years of Service		10.51 years		10.88 years
Average Compensation	\$ 90,793		\$	93,982
Inactive Participants Receiving Benefits (including DROPs)				
Number		16		16
Average Age at Retirement		60.27 years		59.71 years
Average Annual Benefit	\$	29,992	\$	30,044
Inactive Participants Due Deferred Benefits				
Number		3		3
Average Age at Commencement		55.00 years		55.00 years
Average Annual Benefit	\$	23,014	\$	23,014



Both Groups Combined

Reconciliation of Employee Data

A.	Activ	ve Participants	
	1.	Active participants previous year	99
	2.	Retired during year	(1)
	3.	Entered DROP	(8)
	4.	Died during year	0
	5.	Disabled during year	0
	6.	Non-vested employment terminations	(4)
	7.	Vested employment terminations	(1)
	8.	Terminated vested paid lump sum	0
	9.	Leave of absence	0
	10.	Transfers	0
	11.	New active participants	6
	12.	Rehired participant	0
	13.	Part time employees transferred to full time participants	0
	14.	Active participants current year	91
В.	<u>Part</u>	icipants Receiving Benefits	
	1.	Participants receiving benefits previous year	39
	2.	New retired participants	1
	3.	New terminated vested receiving benefits	0
	4.	New disabled receiving benefits	0
	5.	New beneficiaries receiving benefits	2
	6.	Former DROPs now receiving benefits	0
	7.	Died or ceased payment during year	(2)
	8.	Retired or terminated vested receiving benefits current year	40
C.	DRO	P Participants	
	1.	DROP participants previous year	1
	2.	Died during year	0
	3.	Became disabled during year	0
	4.	Employment terminated and retired during year	0
	5.	Entered DROP during year	8
	6.	DROP participants current year	9
D.	Tern	ninated Vested Participants Entitled to Future Benefits	
	1.	Terminated vested entitled previous year	6
	2.	Died during year	0
	3.	Commenced receiving benefits during year	0
	4.	New terminated vested	1
	5.	Terminated vested paid lump sum	0
	6.	Terminated vested entitled current year	7



General Employees / Senior Management Employees

Reconciliation of Employee Data

A.	<u>Activ</u>	ve Participants	
	1.	Active participants previous year	69
	2.	Retired during year	(1)
	3.	Entered DROP	(8)
	4.	Died during year	0
	5.	Disabled during year	0
	6.	Non-vested employment terminations	(4)
	7.	Vested employment terminations	(1)
	8.	Terminated vested paid lump sum	0
	9.	Leave of absence	0
	10.	Transfers	(1)
	11.	New active participants	5
	12.	Rehired participant	0
	13.	Part time employees transferred to full time participants	0
	14.	Active participants current year	59
В.	Part	icipants Receiving Benefits	
٥.	1.	Participants receiving benefits previous year	23
	2.	New retired participants	1
	3.	New terminated vested receiving benefits	0
	4.	New disabled receiving benefits	0
	5.	New beneficiaries receiving benefits	1
	6.	Former DROPs now receiving benefits	0
	7.	Died or ceased payment during year	(1)
	8.	Retired or terminated vested receiving benefits current year	24
C.	DRO	P Participants	
C.	1.	DROP participants previous year	1
	2.	Died during year	0
	3.	Became disabled during year	0
	4.	Employment terminated and retired during year	0
	5.	Entered DROP during year	8
	6.	DROP participants current year	9
D.	Torn	ninated Vested Participants Entitled to Future Benefits	
υ.	1.	Terminated vested entitled previous year	3
	1. 2.	Died during year	0
	2. 3.	Commenced receiving benefits during year	0
	3. 4.	New terminated vested	1
	4 . 5.	Terminated vested paid lump sum	0
	5. 6.	Terminated vested paid iding sum Terminated vested entitled current year	4
	0.	reminated vested entitled current year	7



Police Officers

Reconciliation of Employee Data

A.	<u>Activ</u>	ve Participants	
	1.	Active participants previous year	30
	2.	Retired during year	0
	3.	Entered DROP	0
	4.	Died during year	0
	5.	Disabled during year	0
	6.	Non-vested employment terminations	0
	7.	Vested employment terminations	0
	8.	Terminated vested paid lump sum	0
	9.	Leave of absence	0
	10.	Transfers	1
	11.	New active participants	1
	12.	Rehired participant	0
	13.	Part time employees transferred to full time participants	0
	14.	Active participants current year	32
В.	<u>Part</u>	icipants Receiving Benefits	
	1.	Participants receiving benefits previous year	16
	2.	New retired participants	0
	3.	New terminated vested receiving benefits	0
	4.	New disabled receiving benefits	0
	5.	New beneficiaries receiving benefits	1
	6.	Former DROPs now receiving benefits	0
	7.	Died or ceased payment during year	(1)
	8.	Retired or terminated vested receiving benefits current year	16
C.	DRO	P Participants	
	1.	DROP participants previous year	0
	2.	Died during year	0
	3.	Became disabled during year	0
	4.	Employment terminated and retired during year	0
	5.	Entered DROP during year	0
	6.	DROP participants current year	0
D.	<u>Tern</u>	ninated Vested Participants Entitled to Future Benefits	
	1.	Terminated vested entitled previous year	3
	2.	Died during year	0
	3.	Commenced receiving benefits during year	0
	4.	New terminated vested	0
	5.	Terminated vested paid lump sum	0
	6.	Terminated vested entitled current year	3



Recent Plan Experience

A. <u>Investment Return Experience</u>

		Smoothed	
	Market	Actuarial	
Year Ended	<u>Value</u>	<u>Value</u>	<u>Assumed</u>
09/30/2020	5.15%	7.05%	7.25%
09/30/2019	4.26%	6.45%	7.25%
09/30/2018	7.34%	7.31%	7.25%
09/30/2017	10.61%	7.61%	7.25%
09/30/2016	11.08%	8.05%	7.25%
09/30/2015	(0.8%)	7.0%	7.5%
09/30/2014	9.5%	8.9%	7.5%
09/30/2013	11.5%	6.7%	7.5%
09/30/2012	18.4%	0.9%	7.5%
09/30/2011	(3.2%)	0.3%	7.5%
Average			
Last 3 Years	5.58%	6.94%	7.25%
Last 5 Years	7.65%	7.29%	7.25%
Last 10 Years	7.2%	6.0%	7.4%

B. Review of Recent Salary Experience *

	General / Senior Management Employees		Police C	Officers
Year Ended	<u>Actual</u>	<u>Assumed</u>	<u>Actual</u>	<u>Assumed</u>
09/30/2020	6.5%	5.3%	5.6%	5.1%
09/30/2019	4.3%	5.1%	5.3%	4.8%
09/30/2018	7.2%	5.2%	6.7%	4.9%
09/30/2017	0.1%	5.1%	(2.5%)	4.8%
09/30/2016	8.7%	5.4%	7.6%	4.8%
09/30/2015	6.1%	5.1%	2.4%	5.7%
09/30/2014	10.7%	4.9%	3.9%	5.8%
09/30/2013	6.6%	5.0%	4.6%	5.1%
09/30/2012	4.6%	4.9%	4.2%	5.3%
09/30/2011	8.6%	5.0%	5.0%	5.5%
Average				
Last 3 Years	6.0%	5.2%	5.9%	4.9%
Last 5 Years	5.3%	5.2%	4.5%	4.9%
Last 10 Years	6.3%	5.1%	4.2%	5.2%

^{*} Participants who have full years of pay for both years considered.



Recent Plan Experience

C. Recent Termination Experience

General Employees / Senior Management Employees

Year Ended	Number of Employees <u>Previous Valuation</u>	Expected <u>Terminations</u>	Actual <u>Terminations</u>	Ratio of Actual <u>To Expected</u>
09/30/2020	69	5.7	5	0.9
09/30/2019	64	6.0	4	0.7
09/30/2018	59	5.7	2	0.4
09/30/2017	61	6.3	8	1.3
09/30/2016	59	6.2	5	0.8
09/30/2015	57	4.2	5	1.2
09/30/2014	64	4.8	6	1.3
09/30/2013	52	3.5	3	0.9
09/30/2012	51	3.7	8	2.2
09/30/2011	50	3.1	7	2.3
Last 3 Years	192	17.4	11	0.6
Last 5 Years	312	29.9	24	0.8
Last 10 Years	586	49.2	53	1.1

Police Officers

Year Ended	Number of Employees <u>Previous Valuation</u>	Expected Terminations	Actual <u>Terminations</u>	Ratio of Actual <u>To Expected</u>
09/30/2020	30	1.2	0	0.0
09/30/2019	31	1.2	1	0.8
09/30/2018	28	0.9	0	0.0
09/30/2017	28	0.9	0	0.0
09/30/2016	28	1.0	0	0.0
09/30/2015	27	1.3	1	0.8
09/30/2014	27	1.4	0	0.0
09/30/2013	27	2.0	1	0.5
09/30/2012	27	2.3	1	0.4
09/30/2011	27	2.4	3	1.3
Last 3 Years	89	3.3	1	0.3
Last 5 Years	145	5.2	1	0.2
Last 10 Years	280	14.6	7	0.5



Town Contribution Information

Valuation <u>Date</u>	Contribution Fiscal <u>Year End</u>		mum Required Employer ontributions		ual Employer ntributions <u>Made</u>
10/01/2020	09/30/2022		\$ 1,326,786		N/A
10/01/2019	09/30/2021	1	\$ 1,264,960		N/A
10/01/2018	09/30/2020		\$ 945,871	\$	1,141,115
10/01/2017	09/30/2019		\$ 817,472	\$	817,472
10/01/2016	09/30/2018	2	\$ 917,274	\$	917,274
10/01/2015	09/30/2017	3	\$ 797,359	\$	797,359
10/01/2014	09/30/2016		\$ 757,304	\$	757,304
10/01/2013	09/30/2015	4	\$ 727,022	\$	727,022
10/01/2012	09/30/2014	5	\$ 631,584	\$	631,584
10/01/2011	09/30/2013		\$ 534,209	\$	534,209
10/01/2010	09/30/2012	6	\$ 515,440	\$	515,440
10/01/2009	09/30/2011		\$ 625,963	\$	625,963
10/01/2008	09/30/2010		\$ 553,919	\$	553,919
10/01/2007	09/30/2009	7	\$ 423,747	\$	423,747
10/01/2006	09/30/2008	8	\$ 384,905	\$	384,416
10/01/2005	09/30/2007		\$ 264,370	\$	264,370
10/01/2004	09/30/2006	9	\$ 203,274	\$	230,812
10/01/2003	09/30/2005		\$ 0	\$	102,410
10/01/2002	09/30/2004		\$ 0	\$	102,410
10/01/2001	09/30/2003		\$ 0	\$	0
10/01/2000	09/30/2002		\$ 0	\$	0
10/01/1999	09/30/2001		\$ 0	\$	0
10/01/1998	09/30/2000		\$ 14,417	\$	14,417
10/01/1997	09/30/1999		\$ 0	\$	0
10/01/1996	09/30/1998		\$ 58,833	\$	58,833
10/01/1995	09/30/1997		\$ 140,751	\$	140,751
10/01/1994	09/30/1996		\$ 116,992	\$ \$	116,992
01/01/1994	09/30/1995		\$ 118,566	\$	118,566
01/01/1993	09/30/1994		\$ 147,703	\$	167,952
01/01/1992	09/30/1993		\$ 145,740	\$	167,952

¹ Reflects assumption and benefit changes effective October 1, 2019

⁹ Reflects benefit improvement effective October 1, 2005



² Reflects assumption changes effective October 1, 2016

³ Reflects assumption changes effective October 1, 2015 and benefit changes effective October 1, 2016

⁴ Reflects benefit changes effective October 1, 2013

⁵ Reflects assumption and benefit changes effective October 1, 2012

⁶ Reflects assumption changes effective October 1, 2010

⁷ Reflects assumption changes effective October 1, 2007

⁸ Reflects benefit improvement effective October 1, 2007

State Required Exhibit

All Members

	<u>1</u>	.0/01/2019	<u>1</u>	.0/01/2020
A. Participant Data				
1. Active participants		99		91
Retired, disabled and beneficiaries receiving benefits				
(including DROPs)		40		49
3. Terminated vested participants		6		7
4. Annual payroll of active participants	\$	6,625,012	\$	6,361,141
5. Expected payroll of active employees for the				
following year	\$	6,625,012	\$	6,361,141
6. Annual benefits payable to those currently				
receiving benefits (including DROPs)	\$	837,411	\$	1,039,705
B. Assets				
Net smoothed actuarial value	\$	24,401,166	\$	26,893,203
2. Net market value	\$	24,188,592	\$	26,199,729
C. <u>Liabilities</u>				
1. Actuarial present value of future expected benefit				
payments for active members				
a. Retirement benefits	\$	25,402,403	\$	25,469,135
b. Vesting benefits		1,451,683		1,465,581
c. Disability benefits		1,932,777		1,847,280
d. Return of member contributions		204,871		192,792
e. Total	\$	28,991,734	\$	28,974,788
2. Actuarial present value of future expected benefit payments				
for terminated vested members and miscellaneous	\$	893,985	\$	1,011,495
3. Actuarial present value of future expected benefit				
payments for members currently receiving benefits				
(including DROPs)	\$	9,255,066	\$	12,071,995
4. Total actuarial present value of future expected				
benefit payments	\$	39,140,785	\$	42,058,278
5. Actuarial accrued liabilities	\$	29,250,327	\$	32,402,674
6. Unfunded actuarial accrued liabilities	\$	4,849,161	\$	5,509,471



State Required Exhibit

General Employees / Senior Management Employees

	<u>1</u>	<u> 10/01/2019</u>	<u>1</u>	0/01/2020
A. <u>Participant Data</u>				
1. Active participants		69		59
2. Retired, disabled and beneficiaries receiving benefits				
(including DROPs)		24		33
3. Terminated vested participants		3		4
4. Annual payroll of active participants	\$	3,901,230	\$	3,353,715
5. Expected payroll of active employees for the				
following year	\$	3,901,230	\$	3,353,715
6. Annual benefits payable to those currently				
receiving benefits	\$	387,533	\$	589,042
B. Assets				
1. Net smoothed actuarial value	\$	9,053,092	\$	9,844,248
2. Net market value	\$	8,974,225	\$	9,590,402
C. Liabilities				
Actuarial present value of future expected benefit				
payments for active members				
a. Retirement benefits	\$	9,778,763	\$	7,879,025
b. Vesting benefits	Ψ.	857,063	Ψ	867,472
c. Disability benefits		798,401		655,211
d. Return of member contributions		138,417		121,556
e. Total	\$	11,572,644	\$	9,523,264
Actuarial present value of future expected benefit payments	*	,_,_,_,	*	3,5_3,_5 :
for terminated vested members and miscellaneous	\$	205,433	\$	268,206
Actuarial present value of future expected benefit	,		,	,
payments for members currently receiving benefits				
(including DROPs)	\$	4,212,804	\$	7,130,975
Total actuarial present value of future expected		, ,-,-		,,-
benefit payments	\$	15,990,881	\$	16,922,445
5. Actuarial accrued liabilities	\$	11,946,969	\$	13,438,105
6. Unfunded actuarial accrued liabilities	\$	2,893,877	\$	3,593,857



State Required Exhibit

Police Officers

	<u>1</u>	0/01/2019	<u>1</u>	0/01/2020
A. <u>Participant Data</u>				
1. Active participants		30		32
Retired, disabled and beneficiaries receiving benefits				
(including DROPs)		16		16
3. Terminated vested participants		3		3
4. Annual payroll of active participants	\$	2,723,782	\$	3,007,426
5. Expected payroll of active employees for the				
following year	\$	2,723,782	\$	3,007,426
6. Annual benefits payable to those currently				
receiving benefits	\$	449,878	\$	450,663
B. Assets				
1. Net smoothed actuarial value	\$	15,348,074	\$	17,048,955
2. Net market value	\$	15,214,367	\$	16,609,327
C. <u>Liabilities</u>				
Actuarial present value of future expected benefit				
payments for active members				
a. Retirement benefits	\$	15,623,640	\$	17,590,110
b. Vesting benefits	Y	594,620	Y	598,109
c. Disability benefits		1,134,376		1,192,069
d. Return of member contributions		66,454		71,236
e. Total	\$	17,419,090	\$	19,451,524
Actuarial present value of future expected benefit payments	*	_,,,,.	*	_5, .5_,5
for terminated vested members and miscellaneous	\$	688,552	\$	743,289
Actuarial present value of future expected benefit	т		•	,
payments for members currently receiving benefits				
(including DROPs)	\$	5,042,262	\$	4,941,020
Total actuarial present value of future expected				,- ,
benefit payments	\$	23,149,904	\$	25,135,833
5. Actuarial accrued liabilities	\$	17,303,358	\$	18,964,569
6. Unfunded actuarial accrued liabilities	\$	1,955,284	\$	1,915,614
	•	, ,	•	, ,



State Required Exhibit - All Members

		<u>1</u>	10/01/2019		10/01/2020	
	tement of Accumulated Plan Benefits					
1.	Actuarial present value of accumulated vested benefits					
	a. Participants currently receiving benefits	\$	9,255,066	\$	12,071,995	
	b. Terminated vested members and miscellaneous		893,985		1,011,495	
	c. Other participants		12,115,963		12,808,288	
	d. Total	\$	22,265,014	\$	25,891,778	
2.	Actuarial present value of accumulated non-					
	vested plan benefits		1,319,079		1,088,155	
3.	Total actuarial present value of accumulated					
	plan benefits	\$	23,584,093	\$	26,979,933	
E. Sta	tement of Change in Accumulated Plan Benefits					
1.	Actuarial present value of accumulated plan					
	benefits as of October 1, 2019			\$	23,584,093	
2.	Increase / (decrease) during year attributable to:					
	a. Plan amendment			\$	0	
	b. Change in actuarial assumptions				0	
	c. Benefits paid (includes refunds and DROP distributions)				(877,926)	
	d. Other, including benefits accumulated,					
	increase for interest due to decrease in the					
	discount period				4,273,766	
	e. Net increase			\$	3,395,840	
3.	Actuarial present value of accumulated plan					
	benefits as of October 1, 2020			\$	26,979,933	
F. <u>Pe</u>	nsion Cost					
1.	Total normal cost	\$	1,436,002	\$	1,421,772	
2.	Payment required to amortize unfunded liability		339,560		395,636	
3.	Interest		18,905		18,269	
4.	Total required contributions	\$	1,794,467	\$	1,835,677	
5.	Item 4 as a percentage of payroll		27.1%		28.9%	
6.	Estimated employee contributions	\$	529,507	\$	508,891	
7.	Item 6 as a percentage of payroll		8.0%		8.0%	
8.	Estimated State contributions	\$	19,882	\$	21,074	
9.	Item 8 as a percentage of payroll		0.3%		0.3%	
10.	Net amount payable by Town	\$	1,245,078	\$	1,305,712	
11.	Item 10 as a percentage of payroll		18.8%		20.5%	



State Required Exhibit - General Employees / Senior Management Employees

	<u>10</u>	10/01/2019		10/01/2020	
D. Statement of Accumulated Plan Benefits					
 Actuarial present value of accumulated vested benefits 					
 Participants currently receiving benefits 	\$	4,212,804	\$	7,130,975	
b. Terminated vested members and miscellaneous		205,433		268,206	
c. Other participants		4,426,967		3,265,638	
d. Total	\$	8,845,204	\$	10,664,819	
Actuarial present value of accumulated non-					
vested plan benefits		738,812		741,094	
3. Total actuarial present value of accumulated					
plan benefits	\$	9,584,016	\$	11,405,913	
E. Statement of Change in Accumulated Plan Benefits					
 Actuarial present value of accumulated plan 					
benefits as of October 1, 2019			\$	9,584,016	
Increase / (decrease) during year attributable to:					
a. Plan amendment			\$	0	
b. Change in actuarial assumptions				0	
c. Benefits paid (includes refunds and DROP distributions)				(424,389)	
d. Other, including benefits accumulated,					
increase for interest due to decrease in the					
discount period				2,246,286	
e. Net increase			\$	1,821,897	
3. Actuarial present value of accumulated plan					
benefits as of October 1, 2020			\$	11,405,913	
F. Pension Cost					
1. Total normal cost	\$	591,543	\$	501,241	
2. Payment required to amortize unfunded liability		231,146		288,833	
3. Interest		10,532		9,068	
4. Total required contributions	\$	833,221	\$	799,142	
5. Item 4 as a percentage of payroll		21.4%		23.8%	
6. Estimated employee contributions	\$	311,604	\$	268,297	
7. Item 6 as a percentage of payroll		8.0%		8.0%	
8. Estimated State contributions		N/A		N/A	
9. Item 8 as a percentage of payroll		N/A		N/A	
10. Net amount payable by Town	\$	521,617	\$	530,845	
11. Item 10 as a percentage of payroll		13.4%		15.8%	



State Required Exhibit - Police Officers

Natural present value of accumulated Plane Benefits 1. Actuarial present value of accumulated vested benefits 2. 5,042,262 3. 4,941,020 6. Terminated vested members and miscellaneous 688,552 743,289 9,542,650 0. Total 7,688,996 9,542,650 0. Total present value of accumulated nonvested plan benefits 7,688,996		10/01/2019		10/01/2020	
a. Participants currently receiving benefits \$ 5,042,262 \$ 4,941,028 b. Terminated vested members and miscellaneous 688,552 743,288 c. Other participants 7,688,996 9,542,650 d. Total \$ 13,419,810 \$ 15,226,959 2. Actuarial present value of accumulated nonvested plan benefits \$ 580,267 347,061 3. Total actuarial present value of accumulated plan benefits \$ 14,000,077 \$ 15,574,020 E. Statement of Change in Accumulated Plan Benefits \$ 14,000,077 \$ 15,574,020 7. Increase of October 1, 2019 \$ 202 \$ 0 a. Plan amendment \$ 3 \$ 0 b. Change in actuarial assumptions \$ 3 \$ 0 c. Benefits paid (includes refunds and DROP distributions) \$ 2,027,480 \$ 1,573,943 d. Other, including benefits accumulated, increase for interest due to decrease in the discount period \$ 2,027,480 \$ 1,573,943 e. Net increase \$ 1,573,943 \$ 1,573,943 7. Total normal cost \$ 8,44,459 \$ 90,24,51 2. Payment required to amortize unfunded liability 1 108,414 106,803 3. Interest \$ 961,246 <td>D. <u>Statement of Accumulated Plan Benefits</u></td> <td></td> <td></td> <td></td> <td></td>	D. <u>Statement of Accumulated Plan Benefits</u>				
b. Terminated vested members and miscellaneous 688,552 743,289 c. Other participants 7,688,996 9,542,650 d. Total 7,688,996 9,542,650 2. Actuarial present value of accumulated nonvested plan benefits 580,267 347,061 3. Total actuarial present value of accumulated plan benefits 580,267 347,061 E. Statement of Change in Accumulated Plan Benefits 514,000,077 \$15,574,020 E. Increase / Idecrease) during year attributable to: 5 14,000,077 2. Increase / Idecrease) during year attributable to: 5 0 a. Plan amendment 5 0 0 b. Change in actuarial assumptions 6 0 0 c. Benefits paid (includes refunds and DROP distributions) 6 2,027,480 d. Other, including benefits accumulated, increase for interest due to decrease in the discount period 2 2,027,480 e. Net increase 8 2,027,480 e. Net increase 5 1,573,943 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 8 84,4459 9 20,531 F. Pension Cost	·				
c. Other participants 7,688,996 9,542,650 d. Total \$ 13,419,810 \$ 15,226,959 2. Actuarial present value of accumulated non-vested plan benefits 580,267 347,061 3. Total actuarial present value of accumulated plan benefits \$ 14,000,077 \$ 15,574,020 E. Statement of Change in Accumulated Plan Benefits \$ 14,000,077 \$ 14,000,077 T. Actuarial present value of accumulated plan benefits as of October 1, 2019 \$ 14,000,077 \$ 14,000,077 2. Increase / (decrease) during year attributable to: \$ 14,000,077 \$ 14,000,077 a. Plan amendment \$ 0 \$ 14,000,077 \$ 14,000,077 b. Change in actuarial assumptions \$ 0		\$	5,042,262	\$	4,941,020
d. Total \$ 13,419,810 \$ 15,226,959 2. Actuarial present value of accumulated non-vested plan benefits 580,267 347,061 3. Total actuarial present value of accumulated plan benefits \$ 14,000,077 \$ 15,574,020 E. Statement of Change in Accumulated Plan Benefits \$ 14,000,077 \$ 15,574,020 E. Increase / (decrease) during year attributable to: \$ 14,000,077 \$ 14,000,077 2. Increase / (decrease) during year attributable to: \$ 0 \$ 0 a. Plan amendment \$ 0 \$ 0 b. Change in actuarial assumptions \$ 0 \$ 5,337 d. Other, including benefits accumulated, increase for interest due to decrease in the discount period \$ 2,027,480 \$ 1,573,943 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 \$ 15,574,020 \$ 15,574,020 F. Pension Cost \$ 844,459 \$ 920,531 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest \$ 3,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll \$ 35.30 34.56	b. Terminated vested members and miscellaneous		688,552		743,289
2. Actuarial present value of accumulated non-vested plan benefits 580,267 347,061 3. Total actuarial present value of accumulated plan benefits \$ 14,000,077 \$ 15,574,020 E. Statement of Change in Accumulated Plan Benefits \$ 14,000,077 \$ 15,574,020 E. Actuarial present value of accumulated Plan Benefits \$ 14,000,077 \$ 14,000,077 2. Increase / (decrease) during year attributable to: \$ 10 \$ 0 a. Plan amendment \$ 0 \$ 10 b. Change in actuarial assumptions \$ 10 \$ 10 c. Benefits paid (includes refunds and DROP distributions) \$ 2,027,480 \$ 1,573,943 d. Other, including benefits accumulated, increase for interest due to decrease in the discount period \$ 1,573,943 \$ 1,573,943 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 \$ 15,574,020 \$ 15,574,020 F. Pension Cost \$ 844,459 \$ 920,531 1. Total normal cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.39 \$ 240,59			7,688,996		
National		\$	13,419,810	\$	15,226,959
3. Total actuarial present value of accumulated plan benefits \$ 14,000,077 \$ 15,574,020 \$ E. Statement of Change in Accumulated Plan Benefits	·				
Plan benefits Plan Be	•		580,267		347,061
E. Statement of Change in Accumulated Plan Benefits 1. Actuarial present value of accumulated plan benefits as of October 1, 2019 2. Increase / (decrease) during year attributable to: a. Plan amendment b. Change in actuarial assumptions c. Benefits paid (includes refunds and DROP distributions) d. Other, including benefits accumulated, increase for interest due to decrease in the discount period e. Net increase 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 F. Pension Cost 1. Total normal cost 2. Payment required to amortize unfunded liability 3. Interest 4. Total required contributions 5. Item 4 as a percentage of payroll 6. Estimated employee contributions 8. Estimated state contributions 8. Estimated State contributions 9. Item 8 as a percentage of payroll 9. Item 8 as a percentage of payroll 10. Net amount payable by Town	·				
1. Actuarial present value of accumulated plan benefits as of October 1, 2019 \$ 14,000,077 2. Increase / (decrease) during year attributable to: \$ 0 a. Plan amendment \$ 0 b. Change in actuarial assumptions (453,537) d. Other, including benefits accumulated, increase for interest due to decrease in the discount period 2,027,480 e. Net increase \$ 1,573,943 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 \$ 15,574,020 F. Pension Cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town 774,867 774,867	plan benefits	\$	14,000,077	\$	15,574,020
Denefits as of October 1, 2019 14,000,077	E. Statement of Change in Accumulated Plan Benefits				
2. Increase / (decrease) during year attributable to: \$ 0 a. Plan amendment \$ 0 b. Change in actuarial assumptions (453,537) c. Benefits paid (includes refunds and DROP distributions) (453,537) d. Other, including benefits accumulated, increase for interest due to decrease in the discount period \$ 1,573,943 e. Net increase \$ 1,573,943 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 \$ 15,574,020 F. Pension Cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 774,867 7 774,867	1. Actuarial present value of accumulated plan				
a. Plan amendment b. Change in actuarial assumptions c. Benefits paid (includes refunds and DROP distributions) d. Other, including benefits accumulated, increase for interest due to decrease in the discount period e. Net increase 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 F. Pension Cost 1. Total normal cost 2. Payment required to amortize unfunded liability 3. Interest 4. Total required contributions 5. Item 4 as a percentage of payroll 6. Estimated employee contributions 7. Item 6 as a percentage of payroll 8. Estimated State contributions 9. Item 8 as a percentage of payroll 9. Item 8 as a percentage of payroll 10. Net amount payable by Town 9. Item 8 as a percentage of payroll 9. Item 9 as a percentag	benefits as of October 1, 2019			\$	14,000,077
b. Change in actuarial assumptions c. Benefits paid (includes refunds and DROP distributions) d. Other, including benefits accumulated, increase for interest due to decrease in the discount period e. Net increase 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 F. Pension Cost 1. Total normal cost 2. Payment required to amortize unfunded liability 3. Interest 4. Total required contributions 5. Item 4 as a percentage of payroll 6. Estimated employee contributions 7. Item 6 as a percentage of payroll 8. Estimated State contributions 9. Item 8 as a percentage of payroll 9. Item 8 as a percentage of payroll 10. Net amount payable by Town 9. Item 8 as a percentage of payroll 9. Item 9 as a percentage of payroll 9. It	2. Increase / (decrease) during year attributable to:				
c. Benefits paid (includes refunds and DROP distributions) (453,537) d. Other, including benefits accumulated, increase for interest due to decrease in the discount period 2,027,480 e. Net increase \$ 1,573,943 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 \$ 15,574,020 F. Pension Cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	a. Plan amendment			\$	0
d. Other, including benefits accumulated, increase for interest due to decrease in the discount period 2,027,480 e. Net increase \$ 1,573,943 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 \$ 15,574,020 F. Pension Cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	b. Change in actuarial assumptions				0
increase for interest due to decrease in the discount period 2,027,480 e. Net increase \$1,573,943 e. Net increase \$1,573,943 s. Actuarial present value of accumulated plan benefits as of October 1, 2020 \$15,574,020 \$15,574	c. Benefits paid (includes refunds and DROP distributions)				(453,537)
Commonwealth Comm	d. Other, including benefits accumulated,				
e. Net increase \$ 1,573,943 3. Actuarial present value of accumulated plan benefits as of October 1, 2020 \$ 15,574,020 F. Pension Cost 1. Total normal cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	increase for interest due to decrease in the				
3. Actuarial present value of accumulated plan benefits as of October 1, 2020 \$ 15,574,020 F. Pension Cost 1. Total normal cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	discount period				2,027,480
benefits as of October 1, 2020 \$ 15,574,020 F. Pension Cost 1. Total normal cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	e. Net increase			\$	1,573,943
F. Pension Cost 1. Total normal cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	3. Actuarial present value of accumulated plan				
1. Total normal cost \$ 844,459 \$ 920,531 2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	benefits as of October 1, 2020			\$	15,574,020
2. Payment required to amortize unfunded liability 108,414 106,803 3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	F. Pension Cost				
3. Interest 8,373 9,201 4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	1. Total normal cost	\$	844,459	\$	920,531
4. Total required contributions \$ 961,246 \$ 1,036,535 5. Item 4 as a percentage of payroll 35.3% 34.5% 6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	2. Payment required to amortize unfunded liability		108,414		106,803
5. Item 4 as a percentage of payroll35.3%34.5%6. Estimated employee contributions\$ 217,903\$ 240,5947. Item 6 as a percentage of payroll8.0%8.0%8. Estimated State contributions\$ 19,882\$ 21,0749. Item 8 as a percentage of payroll0.7%0.7%10. Net amount payable by Town\$ 723,461\$ 774,867	3. Interest		8,373		9,201
6. Estimated employee contributions \$ 217,903 \$ 240,594 7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	4. Total required contributions	\$	961,246	\$	1,036,535
7. Item 6 as a percentage of payroll 8.0% 8.0% 8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	5. Item 4 as a percentage of payroll		35.3%		34.5%
8. Estimated State contributions \$ 19,882 \$ 21,074 9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	6. Estimated employee contributions	\$	217,903	\$	240,594
9. Item 8 as a percentage of payroll 0.7% 0.7% 10. Net amount payable by Town \$ 723,461 \$ 774,867	7. Item 6 as a percentage of payroll		8.0%		8.0%
10. Net amount payable by Town \$ 723,461 \$ 774,867	8. Estimated State contributions	\$	19,882	\$	21,074
	9. Item 8 as a percentage of payroll		0.7%		0.7%
11. Item 10 as a percentage of payroll 26.6% 25.8%	10. Net amount payable by Town	\$	723,461	\$	774,867
	11. Item 10 as a percentage of payroll		26.6%		25.8%



State Required Exhibit - All Members

		10/01/2019		10/01/2020	
G.					
	Total contribution required (Prior Year)	\$	1,497,394	\$	1,794,467
	2. Actual contributions made:				
	a. Member	\$	551,523		N/A
	b. Town		1,141,115		N/A
	c. State		0		N/A
	d. Total	\$	1,692,638		N/A
Н.	Net Actuarial Gain / (Loss)				
	1. General Employees	\$	(168,055)	\$	(533,105)
	2. Police Officers		307,820		14,094
	3. Total	\$	139,765	\$	(519,011)
ı.	Disclosure of Following Items:				
	1. Actuarial present value of future salaries				
	- attained age				
	a. General Employees	\$	28,897,102	\$	25,254,397
	b. Police Officers		20,651,638		21,797,825
	c. Total	\$	49,548,740	\$	47,052,222
	2. Actuarial present value of future employee				
	contributions - attained age				
	a. General Employees	\$	2,309,207	\$	2,020,352
	b. Police Officers		1,652,131		1,743,826
	c. Total	\$	3,961,338	\$	3,764,178
	3. Actuarial present value of future contributions	•			
	from other sources		N/A		N/A
	4. Amount of active members' accumulated		•		•
	contributions				
	a. General Employees	\$	1,979,713	\$	1,681,941
	b. Police Officers	•	2,255,159	•	2,582,623
	c. Total	\$	4,234,872	\$	4,264,564
	5. Actuarial present value of future salaries and	•	, ,-	•	, ,
	future benefits at entry age		N/A		N/A
	Actuarial present value of future employee		,		,
	contributions at entry age		N/A		N/A
	20.1		14//		14//



State Required Exhibit

<u>Date</u>	Unfunded Actuarial <u>Accrued Liabilities</u>		Current Unfunded <u>Liabilities</u>		Amortization Payment	Remaining Funding <u>Period</u>
		Ger	neral Employees			
10/01/2009	Combined Bases *	\$	1,940	\$	220	13 years
10/01/2010	Actuarial (Gain) / Loss		229,085		20,556	20 years
10/01/2010	Assumption Changes		(123,074)		(11,043)	20 years
10/01/2011	Actuarial (Gain) / Loss		83,766		7,354	21 years
10/01/2012	Actuarial (Gain) / Loss		163,017		14,028	22 years
10/01/2012	Assumption Changes		123,168		10,599	22 years
10/01/2013	Actuarial (Gain) / Loss		88		7	23 years
10/01/2014	Actuarial (Gain) / Loss		89,547		7,440	24 years
10/01/2015	Actuarial (Gain) / Loss		157,769		12,909	25 years
10/01/2015	Assumption Changes		146,462		11,984	25 years
10/01/2015	Plan Amendment		306,968		25,116	25 years
10/01/2016	Actuarial (Gain) / Loss		319,229		25,753	26 years
10/01/2016	Assumption Changes		38,738		3,125	26 years
10/01/2017	Actuarial (Gain) / Loss		(240,866)		(19,181)	27 years
10/01/2018	Actuarial (Gain) / Loss		140,392		11,047	28 years
10/01/2018	Plan Amendment		1,619,937		127,465	28 years
10/01/2018	Plan Amendment - CBA		32,955		2,593	28 years
10/01/2019	Actuarial (Gain) / Loss		177,835		13,840	29 years
10/01/2019	Assumption Changes		(206,204)		(16,047)	29 years
10/01/2020	Actuarial (Gain) / Loss		533,105		41,068	30 years
	Total	\$	3,593,857	\$	288,833	

^{*} Combined per Internal Revenue Code Regulation 1.412(b)-1



State Required Exhibit

<u>Date</u>	Unfunded Actuarial <u>Accrued Liabilities</u>	Current Unfunded <u>Liabilities</u>		Amortization <u>Payment</u>		Remaining Funding <u>Period</u>
			Police Officers			
10/01/2011 10/01/2011	Combined Credit Bases * Combined Charge Bases *	\$	(5,530,998) 6,546,469	\$	(625,825) 656,892	13 years 16 years
10/01/2012 10/01/2012	Actuarial (Gain) / Loss Assumption Changes		613,681 46,357		52,807 3,989	22 years 22 years
10/01/2013	Actuarial (Gain) / Loss		(35,861)		(3,030)	23 years
10/01/2013 10/01/2014	Plan Amendment Actuarial (Gain) / Loss		42,658 (175,204)		3,604 (14,557)	23 years 24 years
10/01/2015 10/01/2015	Actuarial (Gain) / Loss Assumption Changes		(177,625) 307,048		(14,533) 25,123	25 years 25 years
10/01/2016 10/01/2016	Actuarial (Gain) / Loss Assumption Changes		(88,104) 63,244		(7,108) 5,102	26 years 26 years
10/01/2017	Actuarial (Gain) / Loss		(212,508)		(16,922)	27 years
10/01/2018 10/01/2018	Actuarial (Gain) / Loss Plan Amendment - CBA		307,233 920,348		24,175 72,417	28 years 28 years
10/01/2019 10/01/2019	Actuarial (Gain) / Loss Assumption Changes		(293,537) (403,493)		(22,844) (31,401)	29 years 29 years
10/01/2020	Actuarial (Gain) / Loss		(14,094)		(1,086)	30 years
	Total	\$	1,915,614	\$	106,803	

^{*} Combined per Internal Revenue Code Regulation 1.412(b)-1

This Actuarial Valuation and/or cost determination was prepared and completed by us or under our direct supervision, and we acknowledge responsibility for the results. To the best of our knowledge, the results are complete and accurate, and in our opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the Plan and/or paid from the Plan's assets for which liabilities or current costs have not been established or otherwise provided for in the valuation. All known events or trends which may require material increase in Plan costs or required contribution rates have been taken into account in the valuation.

Jennifer M. Borregard, E.A.

Enrollment Number: 20-07624

Jennifer Borregard

Date: May 19, 2021

Shelly L. Jones, A.S.A

Enrollment Number: 20-08684



Michelle Jones

Glossary

Actuarial Accrued Liability. The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.

Actuarial Assumptions. Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members and other items.

Actuarial Cost Method. A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of Future Normal Costs and the Actuarial Accrued Liability.

Actuarial Equivalent. Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.

Actuarial Present Value of Future Benefits. The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits and inactive, non-retired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.

Actuarial Valuation. The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 67.

Actuarial Value of Assets. The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially required contribution.

Amortization Method. A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.



Glossary

Amortization Payment. That portion of the plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.

Amortization Period. The period used in calculating the Amortization Payment.

Annual Required Contribution. The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The annual required contribution consists of the Employer Normal Cost and Amortization Payment plus interest adjustment.

Closed Amortization Period. A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.

Employer Normal Cost. The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.

Equivalent Single Amortization Period. For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.

Experience Gain/Loss. A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. Losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.

GASB. Governmental Accounting Standards Board.



Glossary

GASB No. 67 and GASB No. 68. These are the governmental accounting standards that set the accounting rules for public retirement plans and the employers that sponsor or contribute to them. Statement No. 67 sets the accounting rules for the plans themselves, while Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement plans.

Normal Cost. The annual cost assigned, under the Actuarial Cost Method, to the current plan year.

Open Amortization Period. An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to covered payroll.

Unfunded Actuarial Accrued Liability. The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.

Valuation Date. The date as of which the Actuarial Present Value of Future Benefits are determined. The benefits expected to be paid in the future are discounted to this date.

Vested Benefit Security Ratio. The ratio of the Market Value of Assets to the Actuarial Present Value of Vested Accrued Benefits.

