

## **Actuarial Valuation Report**

City of Panama City Beach

Firefighters' Pension Plan

Funding Results for the Year Ending September 30, 2022

Accounting Results for the Year Ending September 30, 2021





Ms. Holly J. White Assistant City Manager City of Panama City Beach 17007 Panama City Beach Parkway Panama City Beach, FL 32413

Re: Panama City Beach Firefighters' Pension Plan

Dear Ms. White:

In accordance with your request, we have performed an actuarial valuation for the captioned pension plan as of October 1, 2021. The purposes of this report are to provide the contribution requirements for the Plan Year beginning October 1, 2021, and ending September 30, 2022, including measurements of the funded status of the plan. Disclosures for financial accounting were previously provided in a separate report dated March 19, 2022 and are included in this report for comparison purposes.

This report is intended for the sole use of the City of Panama City Beach and the Pension Board, and is intended only to supply information for the City and Board to comply with the stated purposes of the report and may not be appropriate for other purposes. Reliance on information contained in this report by anyone for other than the intended purposes, puts the relying entity at risk of being misled because of confusion or failure to understand applicable assumptions, methodologies, or limitations of the report's conclusions. Accordingly, no person or entity, including the City of Panama City Beach and the Pension Board, should base any representations or warranties in any agreement on any statements or conclusions contained in this report, without the written consent of Aon.

This report includes a Summary of Major Plan Provisions and a description of the Actuarial Basis used in the valuation. We relied on employee and financial data provided by the City. The Actuarial Cost Method used is considered acceptable under the Rules of the Department of Administration, Division of Retirement, Chapter 60T-1, Local Retirement Systems' Actuarial Reports.

A valuation model was used to develop the liabilities for the October 1, 2021 valuation. The valuation model relies on ProVal software, which was developed by Winklevoss Technologies, LLC. Experts within Aon selected this software and determined it is appropriate for performing valuations. We coded and reviewed the software for the provisions, assumptions, methods, and data of the Panama City Beach Firefighters' Pension Plan. The undersigned relied on experts at Aon for the development of the capital market assumptions models underlying the discount rate and the expected rate of return.

#### STATEMENT BY ENROLLED ACTUARY

This actuarial valuation and/or cost determination was prepared and completed by the undersigned or under our direct supervision, and I 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 a material increase in plan costs or required contribution rates have been taken into account in the valuation.

Respectfully submitted,

Stephen Lambert-Oswald, F.S.A., E.A., M.A.A.A.

Enrollment No. 20-07225

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August 2022

#### **Discussion of Results**

October 1, 2021

The results of the actuarial valuation of the Panama City Beach Firefighters' Pension Plan as of October 1, 2021, are contained in this report. The actuarial valuation is based upon census data and trust fund financial statements provided to us by the City.

The major results of the actuarial valuation are discussed below.

#### **Minimum Required Contribution**

The State minimum required contribution to be deposited by the City is developed on pages 3 and 4. The minimum required contribution includes recognition of excess contributions made in prior years.

	Pian Year Ended		
	09/30/21	09/30/22	
State Minimum Required Contribution	\$ 524,393	\$ 617,942	
Percent of Participants' Compensation	18.44%	19.19%	

Under a new state interpretation, the actual required contribution is not the dollar amount shown, which is based on estimated Participants' Compensation Below Normal Retirement Age. Rather it is to be based on the percentage shown here and actual Participants' Compensation Below Normal Retirement Age for the Plan Year.

#### **Actuarial Experience**

The approximate time-weighted rate of return on the Actuarial Value of Assets was 10.44% for the plan year ended September 30, 2021. Investment experience compounded over the last 5 years has been approximately 8.1% per year. According to the Public Plans Data, the average expected rate of return in 2021 was 7.1% and the Florida Retirement System uses a rate of return of 7.0%. Salary increase experience was observed to be 11.4%, greater than the assumed salary increase of 6.0%. Salary experience compounded over the last 5 years has been approximately 7.7% per year.

#### **Funded Status**

One of the best measures of the Funded Status of a defined benefit plan is considered to be the level of funding of the Accumulated Plan Benefits and Vested Benefits. Accumulated Plan Benefits are those future benefit payments that are attributable to employees' service rendered prior to the valuation date based on employees' actual pay histories (or estimates thereof). This measurement of benefits does not take into account the effect of potential future salary increases. Vested Benefits are those benefits which become nonforfeitable after 10 years of Credited Service or which are attributable to employee contributions.

Based on this measurement of Funded Status, using the Actuarial Value of Assets and the discount rate of 7.00%, the plan appears adequately funded as of October 1, 2021. Funded status is highly dependent on the market value of assets and the discount rate used to measure the liabilities. The higher the discount rate, the lower the liabilities. Use of an above average discount rate or an above-market asset value will result in a higher funded status, but it is not an indication of the security of the pension benefits or the adequacy of funding.

	10/01/20	10/01/21
NET ASSETS AVAILABLE FOR BENEFITS*	\$ 17,910,950	\$ 19,768,871
Discount Rate	7.00%	7.00%
ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS		
TOTAL VESTED BENEFITS	\$ 16,174,750	\$ 17,386,521
Percent Funded	111%	114%
TOTAL ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS	\$ 17,981,520	\$ 18,758,799
Percent Funded	100%	105%

Another, more traditional measure of the Funded Status uses the Entry Age Normal Accrued Liability. This accrued liability equals the Present Value of Benefits less the Present Value of Future Entry Age Normal Costs. (See the description of the entry age normal method on the "Actuarial Cost Method" pages herein.) This accrued liability is independent of the actual plan assets and therefore may be a more reasonable "mile post" of how funded the Plan should be. It recognizes future compensation increases and is a measure of where the level of assets should be to date if all participants are proportionately funded over their individual careers as a level percentage of each participant's compensation. The figures below show the funded status disclosed under GASB 67 for the fiscal years ending September 30 of 2020 and 2021, respectively:

	10/01/20	10/01/21
MARKET VALUE OF ASSETS	\$ 18,308,303	\$ 22,183,256
ENTRY AGE NORMAL ACCRUED LIABILITY	\$ 18,834,984	\$ 22,333,230
Funded Ratio	97.20%	99.33%

<sup>\*</sup> Actuarial Value of Assets

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# Development of Normal Cost for State Minimum Required Contribution

	10/1/2020	10/1/2021		
1. Number of Participants				
Active Terminated with Vested Benefits Retirees and Beneficiaries Total	54 2 16 72	54 2 18 74		
2. Participant's Compensation				
<ul><li>a. Below Normal Retirement Age</li><li>b. Beyond Normal Retirement Age</li><li>c. Total</li></ul>	\$ 2,682,934 <u>93,581</u> \$ 2,776,516	\$ 3,220,875 - \$ 3,220,875		
Present Value of Benefits	Ψ 2,1.10,0.10	φ 0,220,0.0		
Active Terminated with Vested Benefits Retirees Excess State Monies Reserve Total	\$ 14,209,597 775,477 11,542,332 113,813 \$ 26,641,219	\$ 15,406,213 215,997 13,884,585 119,392 \$ 29,626,187		
4. Entry Age Normal Accrued Liability	\$ 20,816,131	\$ 22,550,442		
5. Actuarial Value of Assets	\$ 17,910,950	\$ 19,768,871		
6. Unfunded Actuarial Accrued Liability	\$ 2,905,181	\$ 2,781,571		
7. Past Excess Contributions	\$ 75,560	\$ 15,081		
8. Normal Cost	\$ 674,164	\$ 785,279		

### **State Minimum Required Contribution**

October 1, 2021

#### Plan Year Ended

	9/30/2021	<u>9/</u>	30/2022
1. Normal Cost	\$ 674,164	\$	785,279
2. Employee Contributions	\$ (134,253)	\$	(161,248)
3. Amortization of Actuarial Accrued Liability	\$ 203,660	\$	196,902
4. Interest Adjustment on (1), (2), and (3) for Quarterly Payment	\$ 25,585	\$	28,247
5. Expenses			
Current Year Estimate Equal to Prior Year's Actual Make-up for Shortfall in Prior Year's Estimate	\$ 77,611 21,115	\$	72,356 (5,255)
Total	\$ 98,726	\$	67,101
<ol> <li>Estimated State Premium Tax Refund (Equal to Prior Year's Actual Refund and Excluding Excess Premium Tax Revenues That Have Not Been Used to Provide Additional Benefits)</li> </ol>	\$ 264,965	\$	282,739
7. Past Excess Contributions plus Interest Adjusted for Quarterly Payment	\$ 78,524	\$	15,600
8. Minimum Required Contribution by City for Fiscal Year = (1) + (2) + (3) + (4) + (5) – (6) – (7)	\$ 524,393	\$	617,942
<ol> <li>Percent of Participants' Compensation Below Normal Retirement Age*</li> </ol>	18.44%		19.19%

<sup>\*</sup> The actual required contribution is based on this percentage of actual, not estimated, Participants' Compensation Below Normal Retirement Age.

### **Unfunded Frozen Initial and Supplemental Liabilities**

	Initial Amount to be Amortized	Beginning Amortization Period	Original Amortization Period (Years)	Years Remaining		(BOY) Annual nortization Amount	U	namortized Balance as of 10/1/2021
Redetermined Liability (Fresh Start)*	\$ 2,905,181	10/1/2020	20	19	\$	209,770		\$2,890,627
10/1/2021 Gain/Loss	\$ (109,056)	10/1/2021	10	10	\$	(12,868)	\$	(109,056)
					\$	196,902		
			1. Unamortized	l Balance as o	of 10	/1/2021	\$	2,781,571
		:	2. Past Excess	Contributions	i			15,081
		;	3. Remaining U	Jnfunded Liab	ilities	s = (1) - (2)	\$	2,766,490

<sup>\*</sup>Reducing discount rate from 7.75% to 7.00% and updating funding method. The amortization assumes a 7.00% discount rate and an increasing annuity with a 3.00% payroll growth assumption.

## Schedule Illustrating the Amortization of Unfunded Liabilities Existing This Date

October 1, 2021

October 1	Liability
2021	2,781,571
2022	2,765,596
2023	2,742,182
2024	2,710,619
2025	2,670,141
2030	2,302,814
2035	1,472,200
2036	1,235,748
2037	972,559
2038	680,456
2039	357,100
2040	-

The first figure is the Unfunded Liability as of the current valuation date. For each year thereafter, the preceding year's Unfunded Liability is reduced by the annual amortization amount shown on the prior page and increased with interest at 7.00% per annum.

Thus the remaining amortization period as of the October 1, 2021, valuation is 2039 less 2021, or 18 years.

### **Past Excess Contributions (State Requirements)**

October 1, 2021

#### Plan Year Ended

	9/30/2020	9/30/2021
Charges:		
Deficiency Brought Forward Normal Cost Expenses (Estimated and Make up) Amortization of Frozen Initial and Supplemental Liabilities Required City Contribution, per State* State (Estimated)	\$ - N/A N/A N/A 499,097 251,636	\$ - N/A N/A N/A 559,957 264,965
Interest	28,548	28,384
Total Charges	\$ 779,281	\$ 853,305
Credits:		
Excess Contribution Brought Forward City Contributions State Contributions (Excluding Excess Premium Tax Revenues That Have Not Been	\$ 70,488 460,777	N/A 582,057
Used to Provide Additional Benefits) Interest	289,579	257,443
meresi	33,997	28,886
Total Credits	\$ 854,841	\$ 868,386
Balance:		
Excess Contribution Carried Forward	\$ 75,560	\$ 15,081
Deficiency Carried Forward	<u>\$ -</u>	<u>\$</u> -

<sup>\*</sup>Starting in the year ending September 30, 2021, the Excess Contribution is reflected in the

<sup>&</sup>quot;Required Contribution, per State" line, so no Excess is carried forward

### **Market Value of Assets**

		10/1/2020	10/1/2021		
Assets:					
Cash	\$	926,751.68	\$	614,960.83	
Certificates of Deposit		-		-	
Government and Corporate Bond Funds		4,506,319.38		6,186,326.33	
Real Estate and Equity Funds		12,888,221.02	1	5,046,286.45	
Due from City Funds		-		80,088.81	
Due from State of Florida		-		263,022.42	
Accrued Interest		-		-	
Miscellaneous Receivable		7,092.95		15,545.72	
Total Assets	\$	18,328,385.03	\$ 2	2,206,230.56	
Liabilities and Fund Balance:					
Liabilities:					
Accounts Payable	\$	(20,082.17)	\$	(21,759.86)	
Refunds or Benefits Payable	•	-	\$	(1,215.15)	
Due Other Funds		_	·	-	
Total Liabilities	\$	(20,082.17)	\$	(22,975.01)	
Pension Fund Balance:	\$	18,308,302.86	\$ 2	2,183,255.55	

## **Reconciliation of Assets (Market Value)**

October 1, 2021

#### Plan Year Ended

Revenues:	09/30/2020		09/30/2021	
City Contributions Employee Contributions State Contributions Repayment of Contributions Interest & Dividends Unrealized/Realized Gains (Losses) Commissions	\$	460,776.99 127,720.64 226,179.61 - 332,779.78 1,426,730.66	\$ 582,056.71 155,931.05 263,022.42 - 458,796.99 3,343,439.21	
Total Revenues	\$	2,574,187.68	\$ 4,803,246.38	
Expenses:				
Pension Payments Contribution Refunds DROP Payments Investment Expenses Other Expenses	\$	758,732.94 1,290.70 581,120.86 37,278.97 40,331.55	\$ 853,703.22 2,234.28 - 42,026.57 30,329.62	
Total Expenses	\$	1,418,755.02	\$ 928,293.69	
Net Income:	\$	1,155,432.66	\$ 3,874,952.69	
Fund Balance, Beginning of Year:	\$	17,152,870.20	\$ 18,308,302.86	
Fund Balance, End of Year:	\$	18,308,302.86	\$ 22,183,255.55	

## **Investment Gain/(Loss)**

1. Date of Actuarial Value of Assets:	10/1/2021	10/1/2020	10/1/2019	10/1/2018
Market Value as of Prior Year     (including receivable contributions)	\$ 18,308,303	\$ 17,152,870	\$ 16,457,917	\$ 16,359,403
3. Receivable Contribution included above	\$ -	\$ -	\$ -	\$ -
4. Market Value Excluding Receivable (2) - (3)	\$ 18,308,303	\$ 17,152,870	\$ 16,457,917	\$ 16,359,403
5. Employer, Employee & State Contributions (made for the year, i.e., excluding the receivable contribution, item (3), but including contributions made after the end of the year with no expected return thereon)	\$ 1,001,010	\$ 814,677	\$ 719,481	\$ 462,186
6. Benefit Distributions	\$ 855,938	\$ 1,341,145	\$ 662,160	\$ 1,572,120
7. Administrative Expenses	\$ 72,356	\$ 77,611	\$ 56,496	\$ 60,461
8. Expected Return %	7.00%	7.75%	7.75%	8.00%
a. Item (4) for 1 year b. Item (3) for partial & (5) for 1/2 year c. Item (6) for 1/2 year d. Item (7) for 1/2 year	\$ 1,281,581 34,443 (29,451) (2,490) 1,284,083	\$ 1,329,347 30,980 (51,000) (2,951) 1,306,376	\$ 1,275,489 27,360 (25,180) (2,148) 1,275,521	\$ 1,308,752 18,132 (61,675) (2,372) 1,262,837
9. Expected Market Value (2)+(5)-(6)-(7)+(8)	\$ 19,665,102	\$ 17,855,168	\$ 17,734,264	\$ 16,451,845
10. Actual Market Value this Year (including receivable contributions)	\$ 22,183,256	\$ 18,308,303	\$ 17,152,870	\$ 16,457,917
11. Investment Gain/(Loss) from Experience	\$ 2,518,153	\$ 453,134	\$ (581,393)	\$ 6,072

### **Actuarial Value of Assets**

5 -YEAR SMOO	IN	10/1/2021			
1. Market V	\$	22,183,256			
2. Investme	ent Gains/(Los	ses) for	Four Prior Years		
a. b. c. d.	Oct-20 Oct-19 Oct-18 Oct-17			\$	2,518,153 453,134 (581,393) 6,072
3. Unrecog	nized Investm	ent Gair	ns/(Losses)		
a. b. c. d.	Oct-20 Oct-19 Oct-18 Oct-17	80% 60% 40% 20%	of (2)(a) of (2)(b) of (2)(c) of (2)(d)	\$	2,014,523 271,881 (232,557) 1,214
e. To	otal: (a)+(b)+(	c)+(d)		\$	2,055,061
4. Prelimina	ary Actuarial V	/alue of	Assets = (1) - (3)(e)	\$	20,128,195
5. Adjustme	\$	-			
6. Actuarial	\$	20,128,195			

## Allocation of Actuarial Value of Assets to the Reserve for Other Retirement Benefits (i.e., Excluding DROP)

	Actuarial Value Allocated in Proportion to Market Value	Market Value		
Reserve for DROP Reserve for Other Retirement Benefits	\$ 359,324 19,768,871	\$ 396,010 21,787,246		
Total Fund Balances	\$ 20,128,195	\$ 22,183,256		

### Development of GASB 68 Net Pension Expense

#### Calculation Details

The following table illustrates the Net Pension Liability under GASB 68, which is effective for September 30, 2015 fiscal year and later.

	Fiscal Year End	Fiscal Year End
	9/30/2020	9/30/2021
(1) Total Pension Liability	\$ 18,834,984	\$ 22,333,230
(2) Plan Fiduciary Net Position	\$ (18,308,303)	\$ (22,183,256)
(3) Net Pension Liability	\$ 526,681	\$ 149,974
(4) Plan Fiduciary Net Position as a Percentage of the Total Pension Liability	97.20%	99.33%

The following table illustrates the pension expense under GASB 68.

The following that a manufacture periods of periods and a manufacture of the periods and a manufacture of the periods and periods are periods and periods and periods and periods are peri	Fiscal Year Ending 9/30/2020	Fiscal Year Ending 9/30/2021
(1) Service Cost	\$ 365,093	\$ 494,293
(2) Interest Cost	\$ 1,532,825	\$ 1,464,011
(3) Expected Investment Return	\$ (1,297,501)	\$ (1,417,253)
(4) Employee Contributions	\$ (127,721)	\$ (155,931)
(5) Admin Expense	\$ 77,611	\$ 72,356
(6) Plan Changes	\$ -	\$ 17,190
(7) Amortization of Unrecognized	0	\$ -
(a) Liability (Gain)/Loss	\$ (31,496)	\$ 93,557
(b) Asset (Gain)/Loss	\$ (126,548)	\$ (595,020)
(c) Assumption Changes	\$ (1,369)	\$ 331,764
(8) Total Expense	\$ 390,893	\$ 304,967

#### **Deferred Outflows/Inflows**

The following table illustrates the Deferred Inflows and Outflows at the end of the fiscal year under GASB 68.

	Deferred Outflows	Deferred Inflows
(1) Difference between actual and expected experience	\$1,084,720	\$ 465,703
(2) Net Difference Between Expected and Actual Earnings on Pension Plan Investments	\$ 245,450	\$ 2,218,745
(3) Difference in Assumptions	\$ 1,602,962	\$ 2,222
(4) Total	\$ 2,933,132	\$ 2,686,670

#### Amortization of Deferred Inflows/Outflows

The table below lists the amortization bases included in the deferred inflows/outflows as of September 30, 2021.

Date	Period		Balar	псе	Annual
Established Type of Base	Original	Remaining		Remaining	Payment
10/1/2015 Liability (Gain)/Loss	5.20	-	(380,401)	0	(14,701)
10/1/2016 Liability (Gain)/Loss	5.16	0.16	(157,157)	(4,987)	(30,434)
10/1/2016 Asset (Gain)/Loss	5.00	-	(689,068)	0	(137,814)
10/1/2016 Assumption Change	5.16	0.16	(70,012)	(2,222)	(13,558)
10/1/2017 Liability (Gain)/Loss	5.60	1.60	(706,386)	(201,986)	(126,100)
10/1/2017 Asset (Gain)/Loss	5.00	1.00	(14,314)	(2,862)	(2,863)
10/1/2018 Liability (Gain)/Loss	5.38	2.38	1,499,596	663,808	278,596
10/1/2018 Asset (Gain)/Loss	5.00	2.00	613,622	245,450	122,724
10/1/2018 Assumption Change	5.38	2.38	65,611	29,044	12,189
10/1/2019 Liability (Gain)/Loss	4.51	2.51	(464,518)	(258,730)	(102,894)
10/1/2019 Asset (Gain)/Loss	5.00	3.00	(462,009)	(277,205)	(92,402)
10/1/2020 Assumption Change	5.72	4.72	1,907,051	1,573,918	333,133
10/1/2020 Liability (Gain)/Loss	5.72	4.72	510,002	420,912	89,090
10/1/2020 Asset (Gain)/Loss	5.00	4.00	(2,423,347)	(1,938,678)	(484,669)
Total Charges				\$246,462	(\$169,701)

Amounts Recognized in the deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in the pension expense as follows:

#### Year Ended September 30:

	2022	19,596
	2023	79,883
	2024	(96,507)
	2025	(62,448)
	2026	305,938
Thereafter		0

### Reconciliation of Net Pension Liability

Shown below are details regarding the Total Pension Liability, Plan Fiduciary Net Position, and Net Pension Liability for the Measurement Period from September 30, 2020 to September 30, 2021:

	Increase (Decrease)				
	Total Pension Liability (a)	Plan Fiduciary Net Position (b)	Net Pension Liability (c) = (a) - (b)		
Balance recognized at 10/1/2020	\$18,834,984	\$18,308,303	\$526,681		
Changes recognized for the fiscal year:					
Service Cost	\$494,293	N/A	\$494,293		
Interest on the total pension liability	\$1,464,011	N/A	\$1,464,011		
Changes of benefit terms	\$17,190	N/A	\$17,190		
Differences between expected and actual experience	\$510,002	N/A	\$510,002		
Changes of assumptions	\$1,907,051	N/A	\$1,907,051		
Contributions from the employer	N/A	\$582,057	(\$582,057)		
Contributions from the employee	N/A	\$155,931	(\$155,931)		
Contribution from the state	N/A	\$263,022	(\$263,022)		
Net investment income	N/A	\$3,840,600	(\$3,840,600)		
Benefit payments	(\$894,301)	(\$894,301)	\$0		
Administrative expense	N/A	(\$72,356)	\$72,356		
Other	\$0	\$0	\$0		
Net Changes	\$3,498,246	\$3,874,953	(\$376,707)		
Balance recognized at 9/30/2021	\$22,333,230	\$22,183,256	\$149,974		

### GASB 67 Requirements

GASB 67 is effective for fiscal year ending September 30, 2014. The follow exhibit is a 10 year history of change in Net Pension Liability.

Changes in the Net Pension Liability and Related Ratios – RP2000, 7.00% Interest (7.75% Interest prior to 2021)

State Required Disclosure—Changes in the Net Pension Liability and Related Ratios

					Fisca	l Year Ending				
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total Pension Liability										
Service Cost	N/A	N/A	\$264,424	\$239,906	\$261,853	\$262,044	\$270,658	\$298,547	\$365,093	\$494,293
Interest Cost	N/A	N/A	\$577,530	\$1,108,633	\$1,297,175	\$1,351,472	\$1,431,146	\$1,350,842	\$1,532,825	\$1,464,011
Changes of Benefit Terms	N/A	N/A	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,190
Differences Between Expected and Actual Experiences	N/A	N/A	\$392,824	\$614,707	(\$380,401)	(\$157,157)	(\$706,386)	\$1,433,984	(\$464,518)	\$510,002
Changes of Assumptions	N/A	N/A	\$0	\$0	\$0	(\$70,012)	\$0	\$65,611	\$0	\$1,907,051
Benefit Payments, Including Refunds of Member Contributions	N/A	N/A	(\$428,064)	(\$461,582)	(\$596,757)	(\$790,069)	(\$1,572,120)	(\$662,160)	(\$1,341,145)	(\$894,301)
DROP Adjustment	N/A	N/A	N/A	\$765,571	\$0	\$0	\$0	\$0	\$0	\$0
Net Change in Total Pension Liability	N/A	N/A	\$806,713	\$2,267,235	\$581,870	\$596,279	(\$576,702)	\$2,486,825	\$92,256	\$3,498,246
Total Pension Liability (Beginning)	N/A	N/A	\$12,580,508	\$13,387,221	\$15,564,457	\$16,236,326	\$16,832,605	\$16,255,903	\$18,742,728	\$18,834,984
Total Pension Liability (Ending)	N/A	\$12,580,508	\$13,387,221	\$15,654,457	\$16,236,326	\$16,832,605	\$16,255,903	\$18,742,728	\$18,834,984	\$22,333,230
Plan Fiduciary Net Position										
Contributions—Employer	N/A	N/A	\$501,112	\$416,807	\$383,158	\$266,409	\$190,555	\$400,000	\$460,777	\$582,057
Contributions—Member	N/A	N/A	\$146,638	\$86,266	\$78,955	\$80,110	\$96,798	\$109,254	\$127,721	\$155,931
Contributions—State	N/A	N/A	\$206,650	\$187,733	\$193,237	\$176,633	\$174,833	\$210,227	\$226,180	\$263,022
Net Investment Income	N/A	N/A	\$1,273,642	(\$170,283)	\$1,166,931	\$1,855,648	\$1,268,908	\$694,128	\$1,759,510	\$3,840,600
Benefit Payments, Including Refunds of Member Contributions	N/A	N/A	(\$428,064)	(\$461,582)	(\$596,757)	(\$790,069)	(\$1,572,120)	(\$662,160)	(\$1,341,145)	(\$894,301)
Administrative Expense	N/A	N/A	(\$62,200)	(\$69,185)	(\$63,487)	(\$64,461)	(\$60,461)	(\$56,496)	(\$77,611)	(\$72,356)
Other	N/A	N/A	\$0	\$765,571	\$0	\$0	\$0	\$0	\$0	\$0
Net Change in Plan Fiduciary Net Position	N/A	N/A	\$1,637,777	\$755,328	\$1,162,037	\$1,524,270	\$98,514	\$694,954	\$1,155,433	\$3,874,953
Plan Fiduciary Net Position (Beginning)	N/A	N/A	\$11,279,992	\$12,917,769	\$13,673,096	\$14,835,133	\$16,359,403	\$16,457,917	\$17,152,870	\$18,308,303
Plan Fiduciary Net Position (Ending)	N/A	\$11,279,992	\$12,917,769	\$13,673,096	\$14,835,133	\$16,359,403	\$16,457,917	\$17,152,870	\$18,308,303	\$22,183,256
County's Net Pension Liability (Ending)	N/A	N/A	\$469,453	\$1,981,360	\$1,401,193	\$473,202	(\$202,014)	\$1,589,858	\$526,681	\$149,974
Net Position as a % of Pension Liability	N/A	N/A	96.49%	87.34%	93.37%	97.19%	101.24%	91.52%	97.20%	99.30%
Covered-Employee Payroll	N/A	N/A	\$1,285,641	\$1,460,571	\$1,524,460	\$1,584,980	\$1,905,548	\$2,221,325	\$2,595,638	\$3,127,063
Net Pension Liability as a % of Payroll	N/A	N/A	36.52%	135.66%	91.91%	29.86%	-10.60%	71.57%	20.29%	4.80%

#### **GASB 67 Requirements**

GASB 67 is effective for fiscal year ending September 30, 2014. The follow exhibit is a 10 year history of contributions.

		Fiscal Year Ending								
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total Pension Liability Actuarially Determined Contribution	N/A	N/A	\$396,234	\$314,947	\$223,668	\$125,213	\$176,073	\$359,855	\$421,532	\$576,630
Contributions made in Relation to the Actuarially Determined Contribution	N/A	N/A	\$501,112	\$416,807	\$383,158	\$266,409	\$190,555	\$400,000	\$460,777	\$582,057
Contribution Deficiency (excess)	N/A	N/A	\$104,878	\$101,860	(\$159,490)	(\$141,195)	(\$14,482)	(\$40,145)	(\$39,245)	(\$5,426)
Covered-Employee Payroll	N/A	N/A	\$1,285,641	\$1,460,571	\$1,524,460	\$1,584,980	\$1,905,548	\$2,221,325	\$2,595,638	\$3,127,063
Contributions as a % of Payroll	N/A	N/A	38.98%	28.54%	25.13%	16.81%	10.00%	18.01%	17.75%	18.61%

Methods and assumptions used to determine contribution rates:

Actuarial Cost Method: Entry Age Normal with Frozen Initial Liability
Asset Valuation Method: Actuarial Value - 5 year smoothed market value

IRS Limit Increases: 4.50% Salary Increases: 6.00%

Investment Rate of Return: 7.00%, net of pension plan investment expense, including inflation. Retirement Age: Graded by age and Division - see assumption section for rates.

Mortality: PUB 2010, adjusted for the safety classification, set forward one year, projected using Scale MP 2018

### GASB 67 Requirements

#### Sensitivity

The following table illustrates the impact of interest rate sensitivity on the Net Pension Liability for fiscal year end September 30, 2020:

	1% Decrease	Current Rate	1% Increase
	(6.75%)	(7.75%)	(8.75%)
(1) Total Pension Liability	\$21,186,294	\$18,834,984	\$16,689,071
(2) Plan Fiduciary Net Position	\$18,308,303	\$18,308,303	\$18,308,303
(3) Net Pension Liability	\$2,877,991	\$526,681	(\$1,619,232)

The following table illustrates the impact of interest rate sensitivity on the Net Pension Liability for fiscal year end September 30, 2021:

	1% Decrease	Current Rate	1% Increase
	(6.00%)	(7.00%)	(8.00%)
(1) Total Pension Liability	\$25,240,580	\$22,333,230	\$19,719,499
(2) Plan Fiduciary Net Position	\$22,183,256	\$22,183,256	\$22,183,256
(3) Net Pension Liability	\$3,057,324	\$149.974	(\$2,463,757)

### Funded Status - Accrued Benefits (ASC 960)

#### October 1, 2021

Generally the best measures of the Funded Status of a defined benefit plan are considered to be the levels of funding of the Actuarial Present Values of Accumulated Plan Benefits and Vested Benefits. Accumulated Plan Benefits are those future benefit payments that are attributable under the plan's provisions to employees' service rendered prior to the valuation date. Accumulated Plan Benefits are based on employees' actual pay histories, or estimates thereof; possible future salary increases or changes in Social Security levels are not recognized. Vested Benefits are those benefits which are nonforfeitable under the plan's vesting provisions.

The Actuarial Present Value of Accumulated Plan Benefits is the amount resulting from the application of actuarial assumptions to the Accumulated Plan Benefits to reflect the time value of money and the probabilities of death, disability, withdrawal and retirement. Underlying these assumptions (described on the Actuarial Basis page) is an assumption of an ongoing plan. Since most Accumulated Plan Benefits are generally synonymous with "Accrued Benefits" as defined in the plan, the Actuarial Present Value of Accumulated Plan Benefits has also been called the Present Value of Accrued Benefits.

	10/1/2020	<u>1</u>	0/1/2021
NET ASSETS AVAILABLE FOR BENEFITS*	\$ 17,910,950	\$	19,768,871
ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS			
Discount Rate	7.00%		7.00%
Vested Benefits Participants Currently Receiving Payments All Other Participants TOTAL VESTED BENEFITS	\$ 11,542,332 4,632,418 16,174,750	\$ 	13,884,585 3,501,936 17,386,521
Percent Funded	111%		114%
NONVESTED BENEFITS	1,692,957		1,252,886
EXCESS STATE MONIES RESERVE	113,813		119,392
TOTAL ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS	\$ 17,981,520	\$	18,758,799
Percent Funded	100%		105%

<sup>\*</sup> Actuarial Value of Assets

### Funded Status – Accrued Benefits (ASC 960) (Continued)

	-	<u> 10/1/2020</u>	<u> 10/1/2021</u>
ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS AS OF PRIOR VALUATION DATE Increase (Decrease) During the Year Attributable to:	\$	15,607,979	\$ 17,981,520
Increase for Interest Due to the Decrease in the Discount Period Benefits Paid Benefits Accumulated, Turnover, Other Experience Change in Actuarial Assumptions Plan Amendment Net Increase (Decrease)	\$	1,065,958 (760,024) 747,985 1,319,622 - 2,373,541	\$ 1,228,749 (855,938) 404,469 - - - 777,280
ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS AS OF CURRENT VALUATION DATE	\$	17,981,520	\$ 18,758,799

## **State Required Exhibit**

		10/1/2020		<u>10/1/2021</u>
A. Member Data  1. Active Members  2. Detired Members and beneficiaries receiving		54		54
<ol> <li>Retired Members and beneficiaries receiving benefits (including DROP)</li> <li>Disabled Members receiving benefits</li> </ol>		15 1		17 1
<ul><li>4. Terminated vested Members</li><li>5. Prior year active compensation</li></ul>	\$	2 2,595,638	\$	2 3,127,063
<ul><li>6. Annual benefits payable to retirees and beneficiaries (including DROP)</li><li>7. Annual benefits payable to disabled retirees</li></ul>	\$ \$	851,526 51,682	\$ \$	1,005,967 52,156
Annual benefits payable to terminated     vested Members	\$	9,939	\$	32,427
<ul><li>B. <u>Assets</u></li><li>1. Actuarial value</li><li>2. Market value</li></ul>	\$	17,910,950 18,061,363	\$	19,768,871 21,787,246
C. <u>Liabilities</u> 1. Actuarial present value of future expected benefit payments for active members				
a. Retirement benefits b. Termination benefits	\$	11,915,880 2,073,280	\$	12,504,445 2,613,442
c. Death benefits d. Disability benefits		86,505 133,932	_	112,927 175,399
e. Total  2. Actuarial present value of future expected benefit	\$	14,209,597	\$	15,406,213
payments for terminated vested members  3. Actuarial present value of future expected benefit payments for members currently receiving benefits	\$	775,477	\$	215,997
a. Service retired, beneficiaries and DROP b. Disability retired	\$	11,032,952 509,380	\$	13,377,819 506,766
<ul><li>c. Total</li><li>4. Excess State Monies Reserve</li><li>5. Total actuarial present value of future expected</li></ul>	\$ \$	11,542,332 113,813	\$ \$	13,884,585 119,392
benefit payments 6. Entry age normal accrued liability	\$ \$	26,641,219 18,834,984	\$ \$	29,626,187 22,333,230
7. Unfunded entry age normal accrued liability	\$	773,621	\$	545,984

### State Required Exhibit (Continued)

			10/1/2020	<u>10/1/2021</u>
D.	Statement of Accumulated Plan Benefits  1. Actuarial present value of accumulated vested benefits			
	a. Members currently receiving benefits (including DROP)	\$	11,542,332	\$ 13,884,585
	b. Other Members		4,632,418	3,501,936
	<ul><li>c. Total</li><li>2. Actuarial present value of accumulated non-</li></ul>	\$	16,174,750	\$ 17,386,521
	vested plan benefits		1,692,957	1,252,886
	3. Excess State Monies Reserve		113,813	 119,392
	Total actuarial present value of accumulated plan benefits	\$	17,981,520	\$ 18,758,799
E.	Statement of Change in Accumulated Plan Benefits  1. Actuarial present value of accumulated plan benefits as of Prior Valuation Date  2. Increase (decrease) during year attributable to:	\$	15,607,979	\$ 17,981,520
	a. Plan amendment		0	0
	b. Change in actuarial assumptions		1,319,622	0
	c. Benefits paid		(760,024)	(855,938)
	d. Other, including benefits accumulated and increase for interest due to decrease in the discount period	Φ.	1,813,943	 1,633,218
	e. Net increase  3. Actuarial present value of accumulated plan	\$	2,373,541	\$ 777,280
	benefits as of Current Valuation Date	\$	17,981,520	\$ 18,758,799

#### **State Required Exhibit (Continued)**

Actuarial Valuation Date For Contribution Year		<u>10/1/2019</u> 2019-20		<u>10/1/2020</u> 2020-21
F. Past Contributions				
Total contribution required     a. City				
<ul><li>i. Estimated Dollars, from Actuarial Valuation</li><li>ii. Percentage of Participants' Compensation</li></ul>	\$	379,169 16.24%	\$	524,393 18.44%
iii. Actual Compensation Under NRA	\$	2,575,287	\$	3,036,641
iv. Required, per new state interpretation = (ii.) x (iii.)	\$	418,227	\$	559,957
b. State (Estimated)		251,636		264,965
c. Member*		163,198		165,648
d. Total = (a.iv.) + (b.) + (c.)	\$	833,061	\$	990,570
2. Actual contributions made:	•	100 777	•	500.057
a. City b. State**	\$	460,777	\$	582,057
c. Member		153,904 127,721		257,443 155,931
d. Total	\$	742,402	\$	995,431
d. Total	Ψ	,	Ψ	·
G. Net Actuarial Gain (Loss)		N/A		N/A
H. <u>Disclosure of Following Items:</u>		10/1/2020		<u>10/1/2021</u>
<ol> <li>Actuarial present value of future salaries - attained age***</li> </ol>	\$	24,028,419	\$	29,096,132
<ol> <li>Actuarial present value of future employee contributions - attained age***</li> </ol>	\$	1,017,793	\$	1,245,997
Actuarial present value of future contributions     from other sources		N/A		N/A
Amount of active members' accumulated contributions	\$	965,426	\$	888,006
<ol> <li>Actuarial present value of future salaries and future benefits at entry age</li> </ol>	Not provided by system			
<ol><li>Actuarial present value of future employee contributions at entry age</li></ol>		Not provide	d by	system

<sup>\*</sup> Determined by applying the required employee contribution rate (11.5% for members in the 25 & out tier, 8.1% for all others) to expected compensation for the year for participants under Normal Retirement Age (NRA)

<sup>\*\*</sup> Excluding Excess Premium Tax Revenues that have not been used to provide Additional Benefits

<sup>\*\*\*</sup> Participants under Normal Retirement Age (NRA) only

### FS 112.664 Requirements

State Required Disclosure—Changes in the Net Pension Liability and Related Ratios

Changes in the Net Pension Liability and Related Ratios – RP2000, 5.00% Interest

	Fiscal Year Ending												
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
Total Pension Liability													
Service Cost	N/A	N/A	N/A	N/A	N/A	\$426,055	\$424,619	\$426,983	\$439,869	\$483,320	\$495,413	\$640,222	\$964,621
Interest Cost	N/A	N/A	N/A	N/A	N/A	\$539,013	\$1,718,907	\$1,293,377	\$1,279,079	\$1,350,753	\$1,252,006	\$1,438,169	\$1,280,827
Changes of Benefit Terms	N/A	N/A	N/A	N/A	N/A	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$17,190
Differences Between Expected and Actual Experiences	N/A	N/A	N/A	N/A	N/A	\$497,329	\$3,018,254	(\$1,471,448)	(\$98,790)	(\$557,588)	\$1,602,446	(\$233,315)	(\$1,250,874)
Changes of Assumptions	N/A	N/A	N/A	N/A	N/A	\$0	\$0	\$0	(\$70,012)	\$0	\$65,611	\$0	\$1,907,051
Benefit Payments, Including Refunds of Member Contributions	N/A	N/A	N/A	N/A	N/A	(\$428,064)	(\$461,582)	(\$596,757)	(\$790,069)	(\$1,572,120)	(\$662,160)	(\$1,341,145)	(\$894,301)
DROP Adjustment	N/A	N/A	N/A	N/A	N/A	N/A	\$765,571	\$0	\$0	\$0	\$0	\$0	\$0
Net Change in Total Pension Liability	N/A	N/A	N/A	N/A	N/A	\$1,034,333	\$4,700,198	(\$347,844)	\$760,078	(\$295,635)	\$2,753,316	\$503,931	\$2,024,514
Total Pension Liability (Beginning)	N/A	N/A	N/A	N/A	N/A	\$16,130,732	\$16,130,732	\$20,830,930	\$20,483,085	\$21,243,163	\$20,947,528	\$23,700,845	\$24,204,776
Total Pension Liability (Ending)	N/A	N/A	N/A	N/A	N/A	\$17,165,064	\$20,830,930	\$20,483,085	\$21,243,163	\$20,947,528	\$23,700,845	\$24,204,776	\$26,229,291
Plan Fiduciary Net Position													
Contributions—Employer	N/A	N/A	N/A	N/A	N/A	\$501,112	\$416,807	\$383,158	\$266,409	\$190,555	\$400,000	\$460,777	\$582,057
Contributions—Member	N/A	N/A	N/A	N/A	N/A	\$146,638	\$86,266	\$78,955	\$80,110	\$96,798	\$109,254	\$127,721	\$155,931
Contributions—State						\$206,650	\$187,733	\$193,237	\$176,633	\$174,833	\$210,227	\$226,180	\$263,022
Net Investment Income	N/A	N/A	N/A	N/A	N/A	\$1,480,292	(\$170,283)	\$1,166,931	\$1,855,648	\$1,268,908	\$694,128	\$1,759,510	\$3,840,600
Benefit Payments, Including Refunds of Member Contributions	N/A	N/A	N/A	N/A	N/A	(\$428,064)	(\$461,582)	(\$596,757)	(\$790,069)	(\$1,572,120)	(\$662,160)	(\$1,341,145)	(\$894,301)
Administrative Expense	N/A	N/A	N/A	N/A	N/A	(\$62,200)	(\$69,185)	(\$63,487)	(\$64,461)	(\$60,461)	(\$56,496)	(\$77,611)	(\$72,356)
Other	N/A	N/A	N/A	N/A	N/A	\$0	\$765,571	\$0	\$0	\$0	\$0	\$0	\$0
Net Change in Plan Fiduciary Net Position	N/A	N/A	N/A	N/A	N/A	\$1,637,777	\$755,328	\$1,162,037	\$1,524,270	\$98,514	\$694,954	\$1,155,433	\$3,874,953
Plan Fiduciary Net Position (Beginning)	N/A	N/A	N/A	N/A	N/A	\$11,279,992	\$12,917,769	\$13,673,096	\$14,835,133	\$16,359,403	\$16,457,917	\$17,152,870	\$18,308,303
Plan Fiduciary Net Position (Ending)	N/A	N/A	N/A	N/A	N/A	\$12,917,769	\$13,673,096	\$14,835,133	\$16,359,403	\$16,457,917	\$17,152,870	\$18,308,303	\$22,183,256
County's Net Pension Liability (Ending)	N/A	N/A	N/A	N/A	N/A	\$4,247,296	\$7,157,834	\$5,647,952	\$4,883,760	\$4,489,612	\$6,547,975	\$5,896,474	\$4,046,035
Net Position as a % of Pension Liability	N/A	N/A	N/A	N/A	N/A	75.26%	65.64%	72.43%	77.01%	78.57%	72.37%	75.64%	84.57%
Covered-Employee Payroll	N/A	N/A	N/A	N/A	N/A	\$1,285,641	\$1,308,805	\$1,299,830	\$1,435,315	\$1,857,598	\$2,334,449	\$2,682,934	\$3,220,875
Net Pension Liability as a % of Payroll	N/A	N/A	N/A	N/A	N/A	330.36%	546.90%	434.51%	340.26%	241.69%	280.49%	219.78%	125.62%

### FS 112.664 Requirements

#### Sensitivity

The following table illustrates the impact of interest rate sensitivity on the Net Pension Liability for fiscal year end September 30, 2020:

	2% Decrease	Current Rate	2% Increase
	(5.75%)	(7.75%)	(9.75%)
(1) Total Pension Liability	\$24,204,776	\$18,834,984	\$14,931,037
(2) Plan Fiduciary Net Position	\$18,308,303	\$18,308,303	\$18,308,303
(3) Net Pension Liability	\$5,896,474	\$526,681	(\$3,377,266)

The following table illustrates the impact of interest rate sensitivity on the Net Pension Liability for fiscal year end September 30, 2021:

	2% Decrease	Current Rate	2% Increase
	(5.00%)	(7.00%)	(9.00%)
(1) Total Pension Liability	\$26,229,291	\$22,333,230	\$16,640,249
(2) Plan Fiduciary Net Position	\$22,183,256	\$22,183,256	\$22,183,256
(3) Net Pension Liability	\$4,046,035	\$149,974	(\$5,543,007)

#### Adequacy of Assets

The following table illustrates the number of years and fractions for which the Market Value of Assets are adequate to sustain expected retirement benefits.

Assumptions	Years and Fractions
RP 2000 Mortality and 7.00% Interest	25.33
RP 2000 Mortality and 5.00% Interest	20.17

## **Participant Data Summary**

### October 1, 2021

	Active	DROP	Terminated Vested	Disabled	Retired	Beneficiaries	Total
October 1, 2020	54	1	2	1	14	-	72
New Entrants	4						4
Retirements	(1)	1	(1)		1		-
Disabilities							-
Terminations a) with refund b) without refund	(2) (1)	-	1		-		(2)
DROP enrollments		-	-				-
Deaths a) with beneficiaries b) without beneficiaries					-		-
Benefits Expired							-
Other		-					-
October 1, 2021	54	2	2	1	15	-	74
Average Age	33.5	55.2	46	55.3	59.6		

#### Active Participants as of 10/01/2020

	Males	Females	Total
Number of Participants	51	3	54
Average Age Nearest Birthday	33.5	36.2	33.7
Average Completed Years of Service	6.1	2.1	5.9
Average Compensation for Prior Year	N/A*	N/A*	\$48,067

#### Active Participants as of 10/01/2021

	Males	Females	Total
Number of Participants	51	3	54
Average Age Nearest Birthday	33.3	37.2	33.5
Average Completed Years of Service	6.3	3.1	6.1
Average Compensation for Prior Year	N/A*	N/A*	\$57,909

<sup>\*</sup> Not displayed due to privacy issue.

### **Age and Service Distribution**

Years of Service								
	0-4	5-9	10-14	15-19	20-24	25-29	30+	Total
Age								
Under 25	7	0	1	0	0	0	0	8
25-29	13	1	0	0	0	0	0	14
30-34	8	3	1	0	0	0	0	12
35-39	4	1	2	1	0	0	0	8
40-44	1	2	2	1	1	0	0	7
45-49	2	0	0	1	0	0	0	3
50-54	0	0	1	1	0	0	0	2
55-59	0	0	0	0	0	0	0	0
60-64	0	0	0	0	0	0	0	0
65 and over	0	0	0	0	0	0	0	0
Total	35	7	7	4	1	0	0	54

## Comparison of Actual vs. Assumed Salary Increases and Investment Returns

October 1, 2021

#### **Salary Increases**

;	Year Ended September 30,	Actual	Assumed
	1990	11.3%	6.0%
	1991	8.1%	6.0%
	1992	19.9%	6.0%
	1993	8.0%	6.0%
	1994	5.5%	6.0%
	1995	6.5%	6.0%
	1996	5.9%	6.0%
	1997	5.7%	6.0%
	1998	15.5%	6.0%
	1999	10.1%	6.0%
	2000	1.3%	6.0%
	2001	9.5%	6.0%
	2002	9.3%	6.0%
	2003	3.7%	6.0%
	2004	5.8%	6.0%
	2005	3.9%	6.0%
	2006	8.6%	6.0%
	2007	4.2%	6.0%
	2008	9.7%	6.0%
	2009	13.2%	6.0%
	2010	0.6%	6.0%
	2011	8.8%	6.0%
	2012	4.1%	6.0%
	2013	6.5%	6.0%
	2014	2.1%	6.0%
	2015	7.1%	6.0%
	2016	5.2%	6.0%
	2017	5.4%	6.0%
	2018	11.4%	6.0%
	2019	10.6%	6.0%
	2020	0.3%	6.0%
	2021	11.4%	6.0%
Last 5 Years	, Compounded	7.7%	6.0%

Each figure is the rate of increase in weighted average compensation from the prior year, as reported for the actuarial valuations. The average includes only continuing active employees who have a full year of compensation in both the current and prior years, based on their reported dates of employment. Prior to September 30, 2001, employees with less than a full year of compensation in the prior year were also included by annualizing their compensation on a pro rata basis.

Comparison of Actual vs. Assumed Salary Increases and Investment Returns (Continued)

October 1, 2021

#### **Investment Return**

Year Ended September 30	), Actual	Assumed
1990	2.42%	8.0%
1991	2.98%	8.0%
1992	26.77%	8.0%
1993	11.52%	8.0%
1994	0.18%	8.0%
1995	16.21%	8.0%
1996	13.29%	8.0%
1997	24.15%	8.0%
1998	7.01%	8.0%
1999	12.22%	8.0%
2000	10.58%	8.0%
2001	(5.13%)	8.0%
2002	(4.07%)	8.0%
2003	3.63%	8.0%
2004	3.88%	8.0%
2005	4.84%	8.0%
2006	7.85%	8.0%
2007	10.19%	8.0%
2008	6.24%	8.0%
2009	4.24%	8.0%
2010	4.80%	8.0%
2011	3.74%	8.0%
2012	5.13%	8.0%
2013	9.84%	8.0%
2014	11.11%	8.0%
2015	8.46%	8.0%
2016	8.73%	8.0%
2017	8.40%	8.0%
2018	6.88%	7.75%
2019	6.50%	7.75%
2020	8.42%	7.75%
2021	10.44%	7.00%
Last 5 Years, Compounde Last 20 Years, Compounde Last 30 Years, Compounde	d 6.41%	7.65% 7.91% 7.94%

The actual experience figures are the approximate time-weighted rates of return for the particular year. Through September 30, 2002, the return shown is from market value to market value; thereafter the return is from smoothed value to smoothed value. Income includes dividends, interest, and realized and unrealized gains (losses), based upon statements of Fund Balances provided by the City. The time-weighted rates reflect estimated transaction dates for income, employer, employee and state contributions, expenses, and disbursements.

## **Reconciliation of DROP Participants and Assets**

Participants as of 10/1/2020	1
New DROP Members	1
New DROP's, Withdrew during PY	0
All Other Withdrawals	0
Corrections	0
Participants as of 10/1/2021	2

Assets as of 10/1/2020	<b>Total</b> \$246,939.99
Payments into DROP Earnings Distributions Expenses Adjustments	134,200.22 14,869.78 0.00 0.00 0.00
Assets as of 10/1/2021	\$396,009.99

### **History of Excess Premium Tax Revenues**

October 1, 2021

		Regular		Supplemen	tal Compens	ation Fund		Total		
	Cash <u>Received</u>	Applicable "Frozen" <u>Amount</u>	Excess Over Frozen Amount	Cash <u>Received</u>	Applicable "Frozen" <u>Amount</u>	Excess Over Frozen Amount	Total Excess = Additional Premium Tax Revenue	Current Year Benefit Improve- <u>ments</u>	Set Aside for Future Improve- ments	Cumulative Set Aside for Future Improve- ments
9/30/1998 9/30/1999 9/30/2000 9/30/2001 9/30/2002	\$ 48,873.25 44,211.49 70,881.88 48,577.26 54,888.30	\$ 48,873.25 \$ 48,873.25 48,873.25 48,873.25 48,873.25	0.00 0.00 22,008.63 0.00 6,015.05	\$ 21,907.17 24,139.40 40,444.30 25,381.58 28,691.11	\$ 21,907.17 21,907.17 21,907.17 21,907.17 21,907.17	\$ 0.00 2,232.23 18,537.13 3,474.41 6,783.94	2,232.23 40,545.76 3,474.41	\$ 0.00 0.00 0.00 46,252.40 (1) 41,181.00 (2)	\$ 0.00 2,232.23 40,545.76 0.00 0.00	\$ 0.00 2,232.23 42,777.99 0.00 0.00
9/30/2003 9/30/2004 9/30/2005 9/30/2006 9/30/2007	61,580.73 66,676.24 73,517.87 87,444.59 127,251.63	48,873.25 48,873.25 48,873.25 48,873.25 48,873.25	12,707.48 17,802.99 24,644.62 38,571.34 78,378.38	34,312.47 40,043.17 42,460.12 52,473.25 108,377.15	21,907.17 21,907.17 21,907.17 21,907.17 21,907.17	12,405.30 18,136.00 20,552.95 30,566.08 86,469.98	35,938.99 45,197.57 69,137.42	41,181.00 41,181.00 41,181.00 41,181.00 41,181.00	0.00 0.00 4,016.57 27,956.42 123,667.36	0.00 0.00 4,016.57 31,972.99 155,640.35
9/30/2008 9/30/2009 9/30/2010 9/30/2011 9/30/2012	182,873.74 116,306.62 136,553.57 137,445.52 150,652.54	48,873.25 48,873.25 48,873.25 48,873.25 48,873.25	134,000.49 67,433.37 87,680.32 88,572.27 101,779.29	143,540.37 42,616.18 48,163.22 41,843.68 53,112.15	21,907.17 21,907.17 21,907.17 21,907.17 21,907.17	121,633.20 20,709.01 26,256.05 19,936.51 31,204.98	88,142.38 113,936.37 108,508.78	370,093.00 (3) 83,124.00 (4) 83,124.00 83,124.00 83,124.00	0.00 5,018.38 30,812.37 25,384.78 49,860.27	0.00 5,018.38 35,830.75 61,215.53 111,075.80
9/30/2013 9/30/2014 9/30/2015 9/30/2016 9/30/2017	150,729.03 148,749.67 160,239.82 180,727.63 174,180.73	48,873.25 48,873.25 48,873.25 48,873.25 48,873.25	101,855.78 99,876.42 111,366.57 131,854.38 125,307.48	48,217.29 57,900.59 27,493.57 12,509.09 2,452.81	21,907.17 21,907.17 21,907.17 21,907.17 21,907.17	26,310.12 35,993.42 5,586.40 0.00 0.00	135,869.84 116,952.97 131,854.38	83,124.00 83,124.00 145,422.88 (5) 142,915.84 (6) 146,523.18 (6)	45,041.90 52,745.84 0.00 0.00 0.00	156,117.70 208,863.54 180,393.63 169,332.17 148,116.47
9/30/2018 9/30/2019 9/30/2020 9/30/2021	172,297.52 210,226.97 226,138.48 263,022.42	48,873.25 48,873.25 48,873.25 48,873.25	123,424.27 161,353.72 177,265.23 214,149.17	2,535.66 0.00 41.13 0.00	21,907.17 21,907.17 21,907.17 21,907.17	0.00 0.00 0.00 0.00	161,353.72 177,265.23	137,380.44 (6) 171,977.00 (6) 186,989.52 (6) 208,569.52 (6)	0.00 0.00 0.00 5,579.65	123,537.02 113,812.73

#### Notes

- (1) Additional Benefits adopted (\$350 per month Supplemental Benefit) with a lump sum cost in excess of the available \$46,252.40.
- (2) Additional Benefits adopted (\$350 per month Supplemental Benefit) with an annual cost initially valued as \$41,181.
- (3) Additional Benefits adopted (3.00% Multiplier changed to 3.35%) with a lump sum cost in excess of the available \$370,093.
- (4) Additional Benefits adopted (3.00% Multiplier changed to 3.35%) with an annual cost initially valued as \$83,124.
- (5) Additional Benefits adopted (Employee Contribution reduced to 7.5% for 25 and out tier and 4.1% for all others) annual cost estimated at \$62,298.88 for fiscal year end 9/30/2015.
- (6) Annual cost of Employee Contribution Reduction estimated at \$59,791.84 for fiscal year end 9/30/2016, \$63,399.18 for fiscal year end 9/30/2017, \$54,256.44 for fiscal year end 9/30/2018, \$88,853 for fiscal year end 9/30/2020, \$103,865 for fiscal year end 9/30/2020, and \$125,446 for fiscal year end 09/30/2021

#### **Summary of Major Plan Provisions**

October 1, 2021

Effective Date: August 25, 1971.

Plan Year: October 1 to September 30.

Last Amendment: Restatement (Ordinance 670) effective June 8, 2000. First Amendment (Ordinance 723) effective June 14, 2001 (adding Early Retirement and \$350 per month supplement). Second Amendment (Ordinance 792) effective April 10, 2003 (for various law and other changes). Third Amendment (Ordinance 889) effective July 22, 2004 (changing investment policy). Fourth Amendment (Ordinance 984) effective November 1, 2005 (adding 25 & Out Tier). Fifth Amendment (Ordinance 1030) effective May 11, 2006 (changing various provisions as required by new IRS rules). Sixth Amendment (Ordinance 1085) effective July 26, 2007 (adding 5% fixed investment return option for DROP). Seventh Amendment (Ordinance 1127) effective October 1, 2008 (increasing multiplier from 3.00% to 3.35%). Restatement (Ordinance 1157) adopted August 17. 2009. First Amendment (Ordinance 1220) effective February 9, 2012 (adding 300 hours of overtime cap). First Amendment (Ordinance 1573) effective November 10, 2021 (changing vesting from 10 year cliff, to graded vesting schedule starting at 5 years of service).

**Eligibility**: All permanent Firefighters who have passed the medical examination.

**Employee Contributions**: 7.5% of Compensation for Firefighters who elect the 25 & Out Tier, else 4.1% of Compensation (5.0% prior to June 8, 2000). Employee Contributions are excluded from taxable income under IRC Section 414(h). The election of the 25 & Out Tier is irrevocable. Starting October 1, 2014, contributions will be reduced by 4.0% annually, to the extent that an additional offset is available from premium tax revenues.

**Compensation**: Total compensation paid by the City for services rendered as reported on Form W-2, plus all tax deferred, tax sheltered or tax exempt amounts derived from elective employee contributions or salary reductions. Compensation includes regular pay, overtime (up to 300 hours) and other cash incentives. Payments of leave amounts (vacation, sick, etc.) upon termination of employment shall not be included. Auto allowance and mileage reimbursements shall not be included. Compensation in excess of the IRC Section 401(a)(17) limit is disregarded.

**Average Final Compensation**: The Compensation received during the 5 years out of the last 10 years of Credited Service divided by 60, which produces the highest average, or the career average as a full-time Firefighter, if greater.

**Credited Service**: Years and fractional parts of years of service as a Firefighter with the City and while making Employee Contributions.

**Accrued Benefit**: The benefit using the formula for the Normal Retirement Benefit, based upon the Average Final Compensation and Credited Service as of the date of the calculation. The Accrued Benefit is payable at the Normal Retirement Date in the Normal Form of Benefit.

**Accumulated Contributions**: A participant's contributions with interest compounded annually at 5.25% through June 3, 2000; after that date interest is no longer accrued.

**Normal Retirement Date**: The first day of the month coincident with or next following the earlier of (1) the date a participant attains age 50 and has completed at least 20 years of Credited Service or (2) the date he attains age 55 and has completed at least 10 years of Credited Service, or (3) if he has elected the 25 & Out Tier, the date he has completed at least 25 years of Credited Service regardless of age.

**Early Retirement Date**: The first day of the month coincident with or next following the date a participant attains age 50 and has completed at least 10 years of Credited Service.

Normal Form of Benefit: A monthly annuity for life with 10 years certain.

**Optional Forms of Benefit**: Benefits Actuarially Equivalent to the benefit provided under the Normal Form of Benefit; optional forms:

- a. Life annuity (with no modified cash refund feature),
- b. Joint and survivor annuity (100%, 75%, 66 2/3% or 50%; reducing upon death of participant only),
- c. Level income option,
- d. Any of the above forms, increasing 3% per year on each January 1 (the Actuarially Equivalent adjustment recognizes that the regular retirement benefit includes a 1% COLA and that the \$350 Per Month Supplemental Benefit does not), or
- e. Lump Sum if under \$5,000, or less than \$100 per month.

**Normal Retirement Benefit**: A monthly benefit commencing at the Normal Retirement Date equal to 3.35% of Average Final Compensation multiplied by years of Credited Service, but not more than 100% of Average Final Compensation (excluding COLA's).

Late Retirement Benefit: Additional benefits will accrue after the Normal Retirement Date.

**Early Retirement Benefit**: A participant who elects to retire on or after his Early Retirement Date may receive an Early Retirement Benefit commencing at his Normal Retirement Date equal to his Accrued Benefit. If he further elects to have such benefit commence prior to his Normal Retirement Date, it shall be reduced 3% per year (.25% per month) for each period by which the benefit commencement date precedes his Normal Retirement Date. For this purpose Normal Retirement Date is determined based on the participant's actual years of Credited Service as a Firefighter at his termination date.

**Death Benefit:** The beneficiary of a participant who dies (1) during employment or after termination with a vested benefit and (2) with respect to whom benefit payments have not commenced shall be entitled to a Death Benefit equal to 100 times his monthly Accrued Benefit based on his Credited Service and Average Final Compensation as of the time of death. This benefit is payable in a lump sum unless the Firefighter elected that it be paid in an Actuarially Equivalent annuity or installments. The Plan also provides minimum Death Benefits based upon the vested, 10-year-certain portion of the Normal Form of Benefit or the refund of Accumulated Contributions.

**Termination of Employment Benefit**: A participant who terminates his employment after completing ten years of Credited Service for reason other than death, disability or retirement shall be entitled to a vested deferred monthly benefit commencing at his Normal Retirement Date equal to his Accrued Benefit. Any participant may withdraw his Accumulated Contributions; a vested participant who withdraws his Accumulated Contributions forfeits his rights to his vested Accrued Benefit or Death Benefit.

If a participant terminates after completing 10 years but prior to being eligible for retirement:

- With less than 20 years of Credited Service, his annuity can begin unreduced at age 55 or reduced (3% per year) between ages 50 and 55, or
- With 20 or more years of Credited Service, his annuity can begin unreduced at age 50.

**Disability Benefit**: A Participant who becomes totally and permanently disabled shall be eligible to receive a Disability Benefit in the form of an immediate monthly annuity for life with ten years certain as follows:

**Job-Related Disability**: Without regard to years of Credited Service, a benefit equal to the greater of his Accrued Benefit or 42% of Average Final Compensation as of the date of disability.

**Non-Job-Related Disability**: With ten or more years of Credited Service, a benefit equal to his Accrued Benefit as of the date of disability.

The Disability Benefit together with worker's compensation benefits may not exceed 100% of pay, as provided in the Plan. Optional Forms of Benefit may be elected.

**Actuarial Equivalent**: A benefit or amount of equal value, based upon the 1983 Group Annuity Mortality Table for Males and an interest rate of 8% per annum. In practice, in accordance with the prior document, the Table for Males is used for all Firefighters, regardless of sex, and the same table with ages set back 6 years is used for all beneficiaries and survivor annuitants, regardless of sex.

**Cost-of-Living Adjustment**: All retirees, including disabled retirees, who retired on or after June 8, 2000, (including Firefighters who terminate with a deferred benefit after such date, once they retire) and their survivor annuitants shall receive on the first January 1 following one full year of retirement, and on each January 1 thereafter, a 1% cost-of-living adjustment on their regular retirement benefit; the \$350 Per Month Supplemental Benefit does not receive a COLA.

**Vesting**: A participant is considered 50% vested, once they complete 5 years of service. Their vesting percentage increases by 10% each additional full year of service completed, until they reach 100% vested upon completion of 10 years of service.

**Maximum Benefits**: IRC Section 415 limits apply as modified for governmental plans and for police and fire plans.

#### **Deferred Retirement Option Program (DROP):**

- a. Eligibility: Normal Retirement.
- b. **Benefit Amount**: The participant's Accrued Benefit calculated as of the beginning of the DROP period, accumulated quarterly with interest at a rate equal to either the Pension Plan's net investment performance during the quarter or a fixed guaranteed rate of 5% annually, plus cost-of-living adjustments, if any, during the DROP period. The participant elects which interest basis he wants upon his entry into the DROP, and may change such election only once during the DROP period.
- c. **Form of Benefit**: When the DROP period ends (maximum 5 years), the employee must terminate employment. At that time, the accumulated DROP benefits will be distributed in the form of a lump sum, a rollover, or a nonforfeitable fixed annuity to the participant, or if deceased, such participant's designated beneficiary. In addition, the monthly annuity, including any COLA adjustments, will continue to the participant as otherwise provided in the Plan.
- d. **Other Provisions**: A participant in DROP is no longer eligible for Death or Disability Benefits. Employee Contributions are no longer collected, and Credited Service and Average Final Compensation are frozen as of the date of entry into DROP.

**\$350 Per Month Supplemental Benefit:** Firefighters who retire from active service only receive a supplemental monthly benefit of \$350 payable for life only, without any COLA. This benefit is not provided for firefighters who terminate prior to being eligible for early, normal or disability retirement, nor is it provided for beneficiaries of deceased firefighters, nor their joint annuitants. However, when he retires a firefighter may elect to have the \$350 benefit paid in one of the reduced, Actuarially Equivalent Optional Forms of Benefit; this includes having it paid as a reduced, Actuarially Equivalent, increasing annuity under the 3% increasing annuity option.

#### **Actuarial Basis**

October 1, 2021

#### **ACTUARIAL COST METHOD**

Entry Age Normal with Amortization of the unfunded actuarial accrued liability plus normal cost and expenses. The initial unfunded accrued liability is amortized as a percentage of payroll over 20 years. Future gains and losses will be amortized over 10 years.

#### **ACTUARIAL ASSUMPTIONS**

**Investment Yield**: The investment rate of earnings is assumed to be 7.00% per annum.

**Interest on Employee Contributions**: No interest is credited beyond June 8, 2000.

**Mortality**: PUB 2010, adjusted for the safety classification, set forward one year, projected using scale MP 2018 (Florida Retirement System Special Risk mortality).

**Disability**: Preretirement disability is assumed to occur in accordance with a standard scale of disability rates (1955 UAW, male and female). Sample rates are shown below:

	Probability of Disablement			
Age	Male	Female		
20	0.03%	0.04%		
30	0.04%	0.06%		
40	0.07%	0.10%		
50	0.18%	0.26%		
60	0.90%	1.21%		

Twenty-five percent of disabilities are assumed to be non-job-related.

**Withdrawal**: Preretirement withdrawals are assumed to occur in accordance with a standard scale of turnover rates (Frees 2003). Sample rates are shown below:

Age	Years of Service					
	< 2	2-4	5-9	>10		
20	18.0%	14.2%	15.0%	18.8%		
30	18.6%	13.6%	8.4%	4.8%		
40	15.9%	10.4%	6.0%	4.2%		
50	15.6%	8.9%	5.3%	3.5%		

Salary Scale: Future salaries are assumed to increase at the rate of 6% per year.

Actuarial Value of Assets: Assets are valued using a 5-year smoothed market value without phase-in.

**Retirement Rates**: Active employees are expected to retire at a rate of 60% at first eligibility. They are then assumed to retire at a rate of 50% for each year thereafter. 100% of eligible participants are assumed to retire at age 60.

**Timing of Contribution**: The contribution is assumed to be made quarterly throughout the plan year.

**Employees Covered**: All participants as of the actuarial valuation date.

**Expenses**: Expenses for the current year are assumed to equal actual expenses for the prior year. If actual expenses for the current year differ from this estimate, a make-up contribution or credit is included.

**Maximum Compensation**: Compensation is limited to \$290,000 projected to increase at the rate of 4% per annum.

**Maximum Benefits**: The \$230,000 maximum for years ending in 2021 and other applicable Benefit Limitations under Section 415 are projected to increase at the rate of 4% per annum.

**Completeness of Assumptions**: All benefits and expenses to be provided by the Plan are recognized in the valuation. All known events are taken into account; no current trends are assumed to discontinue in the future.

All assumptions, with the exception of the investment return and mortality, were selected in conjunction with guidance provided by Aon. The demographic assumptions were selected as a result of an experience study, and are reviewed annually for reasonableness.

The investment return was selected by the Pension Board in conjunction with the investment consultant.

The mortality used is based on the mortality assumption used by the Florida Retirement System, as mandated by Florida Statute.

#### **COMPARABILITY WITH PRIOR VALUATION**

Significant Events During the Year: None.

**Significant Changes in the Summary of Major Plan Provisions**: Vesting was updated from a 10 year cliff vesting to a graded vesting schedule starting at 50% upon completion of 5 years of service, increasing to 100% at 10 years of service.

Significant Changes in the Actuarial Cost Method or Actuarial Assumptions: None

Other Information Needed to Fully and Fairly Disclose the Actuarial Position of the Plan: None.

#### Actuarial Cost Method "Entry Age Normal"

October 1, 2021

An actuarial valuation is a series of mathematical calculations which project future benefits under a pension plan and future contributions to fund those benefits. The true cost of a pension plan cannot be determined until the last benefit is paid, because the true cost is the actual benefits ultimately paid, plus the expense of maintaining the plan, less the actual income earned on invested funds. Since funding cannot wait until the last benefit is paid, however, actuarial assumptions are used to project ultimate benefit levels and the reserves needed to provide them. An actuarial cost method is then used to establish a reasonable pattern of contributions to accumulate those reserves. The assumptions and cost method themselves, therefore, only impact on the incidence of funding, not the true cost. Each new valuation automatically corrects for any differences between the assumptions and actual experience, and the correction is spread over the current and future years of funding.

The Entry Age Normal cost method spreads the funding of the annual accrual of pension benefits over the future service of all active participants and the balance is funded in a separate amortization schedule.

The initial unfunded accrued liability (UAL) is determined and fixed in the first year the cost method is adopted. The UAL, is amortized over a closed 20-year period over a level percentage of payroll. Future gains and losses will be amortized over 10 years.

The state minimum required contribution in a particular year is equal to the Normal Cost, plus an amount which will amortize the Unfunded Accrued Liability over the applicable number of years, plus expected and "make-up" expenses, less the Past Excess Contributions and expected employee contributions.

The calculation of the contribution has been made in a manner that assumes quarterly payment during the Plan Year. In order to meet the state minimum funding requirements, the state minimum required contribution must be made at least quarterly during the Plan Year.

#### Disclosure Notes to the Financial Statements for Year Ended September 30, 2021

#### **Summary of Significant Accounting Policies**

Preserving the Firefighters' Retirement Fund is a major objective of the City of Panama City Beach. The City funds a defined benefit pension plan for its employees. They are treated as fiduciary funds in the financial sections. It is the goal to invest all funds in a manner that provides the highest investment return using authorized instruments while meeting the City's acceptable risk level. The primary objectives, in priority order, in investment activities shall be safety, liquidity, and yield.

Method used to value investments. Investments are reported at fair value. All deposits are in various financial institutions and are carried at cost. Securities traded on a national or international exchange are valued at the last reported sales price at current exchange rates.

#### **Plan Description**

#### **Plan Administration**

The Board of Trustees oversees the management of the Firefighters' Pension Plan for the City of Panama City Beach. The board has established procedures to ensure that idle funds are invested as authorized by Florida statute, to earn the maximum interest.

#### **Benefits Provided**

See pages 30-32 of the Actuarial Report.

#### **Contributions**

The City's annual contribution to the pension trust is determined through the budgetary process and with reference to actuarial determined contributions. As of September 30, 2021, the most recent actuarial study shows a deficit of \$0.1 million on a GASB 67/68 funding basis. The Board establishes rates based on an actuarially determined rate recommended by an independent actuary. The actuarially determined rate is the estimated amount necessary to finance the costs of benefits earned by plan members during the year, with an additional amount to finance any unfunded accrued liability. The contribution is designed to accumulate sufficient assets to pay benefits when due.

#### Investments

	All .:
Asset Class	Target Allocation Total
Large Cap Equity	30%
Small Cap Equity	20%
International Equity	15%
Fixed Income	25%
Real Estate	5%
Cash	5%
Total	100%

No changes have been made to the pension plan investment policy over the past year.

#### **Concentrations**

The long-term expected rate of return on pension plan investments was confirmed appropriate using Aon's etool model assuming general inflation of 2.5%, which is a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation as of October 1, 2021 (see the discussion of the pension plan's investment policy) are summarized in the following table:

Asset Class	Long-Term Expected Nominal Return	Long-Term Expected Real Rate of Return
Equity		
Large Cap U.S. Equity	6.00%	3.80%
Small Cap U.S. Equity	6.50%	4.30%
International (Non-U.S.) Equity		
(Developed)	6.90%	4.70%
Emerging Markets Equity	7.50%	5.30%
Fixed Income		
Long Duration Bonds – Credit	2.90%	0.70%
Alternative Investments		
Real Estate (Broad Market)	5.40%	3.20%

#### Rate of Return

For the year ended September 30, 2021, the annual money-weighted rate of return on pension plan investments, net of pension plan investment expense, was 20.95 percent. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

#### Receivables

The pension plan does not have receivables from long-term contracts with the City for contributions.

#### **Allocated Insurance Contracts**

The pension plan has not allocated insurance contracts that are excluded from pension plan assets.

#### Reserves

The pension plan has no reserves that are required to be disclosed under paragraph 30e of Statement 67.

#### **Deferred Retirement Option Program (DROP)**

The City offers a DROP to all employees who meet retirement eligibility. A description of the DROP can be found on page 32 of the actuarial valuation report.

#### **Net Pension Liability of the City**

The components of the net pension liability under GASB 67 of the City at September 30, 2021, were as follows:

Total Pension Liability	\$22,333,230
Plan Fiduciary Net Position	(\$22,183,256)
City's Net Pension Liability	\$149,974
Plan Fiduciary Net Position as a Percentage of	
the Total Pension Liability	99.33%

#### **Actuarial Assumptions**

See pages 33-35 of the Actuarial Report.

#### **Discount Rate**

The discount rate used to measure the total pension liability was 7.00 percent. The projection of cash flows used to determine the discount rate assumed that plan member contributions will be made at the current contribution rate and that Board of Trustees contributions will be made at rates equal to the difference between actuarially determined contribution rates and the member rate. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.