# City of North Miami Clair T. Singerman Employees Retirement System

ACTUARIAL VALUATION REPORT AS OF OCTOBER 1, 2020

ANNUAL EMPLOYER CONTRIBUTION FOR THE FISCAL YEAR ENDING SEPTEMBER 30, 2022







May 12, 2021

Board of Trustees Clair T. Singerman Employees Retirement System North Miami, Florida

Dear Board Members:

The results of the October 1, 2020 Annual Actuarial Valuation of the City of North Miami Clair T. Singerman Employees Retirement System are presented in this report.

This report was prepared at the request of the Board and is intended for use by the Retirement System and those designated or approved by the Board. This report may be provided to parties other than the System only in its entirety and only with the permission of the Board. GRS is not responsible for unauthorized use of this report.

The purposes of the valuation are to measure the System's funding progress, to determine the employer contribution rate for the fiscal year ending September 30, 2022, and to determine the actuarial information for GASB Statement No. 67 for the fiscal year ending September 30, 2020. This report should not be relied on for any purpose other than the purposes described herein. Determinations of financial results, associated with the benefits described in this report, for purposes other than those identified above may be significantly different.

The contribution rate in this report is determined using the actuarial assumptions and methods disclosed in Section B of this report. This report includes risk metrics in Section A but does not include a more robust assessment of the risks of future experience not meeting the actuarial assumptions. Additional assessment of risks was outside the scope of this assignment.

This valuation assumed the continuing ability of the plan sponsor to make the contributions necessary to fund this plan. A determination regarding whether or not the plan sponsor is actually able to do so is outside our scope of expertise and was not performed.

The findings in this report are based on data or other information through September 30, 2020. The valuation was based upon information furnished by the Plan Administrator concerning Retirement System benefits, financial transactions, plan provisions and active members, terminated members, retirees and beneficiaries. We checked for internal and year-to-year consistency, but did not otherwise audit the data. We are not responsible for the accuracy or completeness of the information provided by the Plan Administrator.

This report was prepared using certain assumptions approved by the Board as authorized under Florida Statutes and prescribed by the Florida Statutes as described in the section of this report entitled Actuarial Assumptions and Methods. The investment return assumption was prescribed by the Board and the assumed mortality rates detailed in the Actuarial Assumptions and Methods section were prescribed by Chapter 112.63, Florida Statutes. All actuarial assumptions used in this report are reasonable for purposes of this valuation. Board of Trustees May 12, 2021 Page ii

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 systems. To the best of our knowledge the information contained in this report is accurate and fairly presents the actuarial position of the Retirement System 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.

Jeffrey Amrose and Trisha Amrose are members of the American Academy of Actuaries. These actuaries meet the Academy's Qualification Standards to render the actuarial opinions contained herein.

The signing actuaries are independent of the plan sponsor.

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. In our opinion, the techniques and assumptions used are reasonable, meet the requirements and intent of Part VII, Chapter 112, Florida Statutes, and are based on generally accepted actuarial principles and practices. 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 taken into account 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.

Gabriel, Roeder, Smith & Company will be pleased to review this valuation and Report with the Board of Trustees and to answer any questions pertaining to the valuation.

Respectfully submitted,

GABRIEL, ROEDER, SMITH AND COMPANY

Imino By

Jeffrey/Amrose, MAAA Enrolled Actuary No. 20-6599 Senior Consultant & Actuary

Trisha Amrose, MAAA Enrolled Actuary No. 20-8010 Consultant & Actuary



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**SECTION A** 

**DISCUSSION OF VALUATION RESULTS** 

#### DISCUSSION OF VALUATION RESULTS

# **Closed Plan**

In reviewing this Report, it is important for the reader to keep in mind that this Plan was closed to new members after June 1, 2016. One consequence of this closure is that the required employer contribution will generally continue to increase as a percentage of covered payroll as such payroll decreases from year to year

#### **Comparison of Required Employer Contributions**

A comparison of the required employer contribution developed in this valuation and the last valuation is as follows.

	For FYE 9/30/2022 Based on 10/1/2020 Valuation	For FYE 9/30/2021 Based on 10/1/2019 Valuation	1 Increase (Decrease)	
Actuarially Determined Employer Contribution	\$ 3,358,941	\$ 3,629,523	\$ (270,582)	
As % of Covered Payroll	27.38 %	29.31 %	(1.93) %	

The contribution has been adjusted for interest on the basis that payments are made on the first day of the fiscal year by both the City and the County.

The actual Employer contribution during the year ending September 30, 2020 was \$4,126,483. The required contribution was \$4,126,483 for that year based on a payment date of October 1, 2019 for the City contributions on behalf of general employees and police officers and for the County contribution on behalf of firefighters.

# **Employer Contributions by Group**

Separate actuarial valuations have been performed for general employees, police officers and firefighters. Results are as follows:

	Actuarially Determined Employer Contribution for FYE 9/30/2022	
Group	Dollar Amount % of Payı	
General Employees Police Officers Firefighters	\$ 3,321,378 37,563 <u>0</u> 3,358,941	27.35 % 30.63 <u>N/A</u> 27.38



#### **Revisions in Benefits**

There were no changes in benefits in the current valuation.

#### **Revisions in Actuarial Assumptions and Methods**

There were no changes in actuarial assumptions or methods in the current valuation.

#### Actuarial Experience

There was a net actuarial gain of \$998,901 for the year which means that actual experience was more favorable than expected. The gain was primarily due to investment earnings above the assumed rate of 6.75% from the prior valuation. The return on the actuarial valuation of assets was 7.5%, while the return on the market value of assets was 8.4%. The experience gain caused the Required Employer Contribution to decrease by approximately \$155,000, or 1.26% of covered payroll.

#### Funded Ratio

This year's funded ratio is 94.5% compared to 92.1% last year. The ratio is equal to the actuarial value of assets divided by the actuarial accrued (past service) liability.

#### Analysis of Change in Required Employer Contribution

The components of change in the required contribution are as follows:

Contribution rate last year	29.31 %
Change in assumptions	0.00
Payment on unfunded liability	(0.87)
Experience gain/loss	(1.26)
Change in administrative expense	0.16
Change in Normal Cost rate	<u>0.04</u>
Contribution rate this year	27.38 %

#### Variability of Future Contribution Rates

One consequence of a plan closure is that, in general, the annual payment on the unfunded accrued liability will continue to increase as a percentage of covered payroll, as such payroll decreases from year to year. Additionally, when experience differs from the assumptions, as it often does, the employer's contribution rate can vary significantly from year-to-year. Over time, if the year-to-year gains and losses offset each other, the contribution rate would be expected to increase at a rate that is inversely proportional to the rate of shrinking payroll, but this does not always happen.

The Market Value of Assets exceeds the Actuarial Value of Assets by \$3,722,250 as of the valuation date (see Section C). This difference will be gradually recognized in the absence of offsetting losses. In turn, the computed employer contribution would gradually decrease by approximately \$379,000.



# **Relationship to Market Value**

If Market Value had been the basis for the valuation, the Employer contribution would have been approximately \$3.0 million and the funded ratio would have been 97.1%.

#### **Conclusion**

The remainder of this Report includes detailed actuarial valuation results, information relating to the pension fund, financial accounting information, miscellaneous employee data and a summary of plan provisions.



# 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. Investment risk actual investment returns may differ from the expected returns;
- Contribution risk 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;
- 3. Salary and Payroll risk actual salaries and total payroll may differ from expected, resulting in actual future accrued liability and contributions differing from expected;
- 4. Longevity risk members may live longer or shorter than expected and receive pensions for a period of time other than assumed;
- 5. 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 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 cost of the plan can be expected to increase (or decrease). Likewise if longevity is improving (or worsening), increases (or decreases) in cost can be anticipated.

The computed contribution rate shown on page 1 may be considered as a minimum contribution rate that complies with the Board'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 may be much more exposed to investment risk. Generally accepted plan maturity measures include the following:

2020

2010

	2020	2019
Ratio of the market value of assets to payroll	11.57	10.80
Ratio of actuarial accrued liability to payroll	11.92	11.52
Ratio of actives to retirees and beneficiaries	0.8	0.8
Ratio of net cash flow to market value of assets	-2.20 %	-1.65 %

# RATIO OF MARKET VALUE OF ASSETS TO PAYROLL

The relationship between assets and payroll is a useful indicator of the potential volatility of contributions. 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 a higher (lower) or increasing (decreasing) volatility in plan sponsor contributions 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 contributions for a fully funded plan. A funding policy that targets 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 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 the payroll, a change in 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 liability (and also plan sponsor contributions) 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.



#### 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.



#### **CHAPTER REVENUE**

Actuarial Confirmation of the Use of State Chapter Money					
	748 Plan	691 Plan	Total		
1. Base Amount Previous Plan Year (Excluding Amount					
Allocated to Share Plan) <sup>1</sup>	197,038	-	197,038		
2. Amount Received for Previous Plan Year	368,587	3,922	372,509		
3. Amount Allocated to Share Plan <sup>2</sup>	182,333	1,554	183,887		
4. Amount Received for Previous Plan Year After Share					
Plan Allocation (2) - (3) $^3$	186,254	2,368	188,622		
5. Benefit Improvements Made in Prior Plan Year	-	-	-		
6. Excess Funds for Previous Plan Year	-	2,368	2,368		
7. Accumulated Excess at Beginning of Previous Plan Year	-	38,025	38,025		
8. Prior Excess Used in Previous Plan Year $^4$	-	-	-		
9. Accumulated Excess as of Valuation Date (7) - (8) + (6)	-	40,393	40,393		
10. Base Amount This Plan Year (Excluding Amount					
Allocated to the Share Plan) $^{5}$	186,254	-	186,254		

<sup>1</sup> 50% of Chapter 185 revenue from FYE 2019, held in reserve in Share Plan to offset required City contribution for FYE 2020.

<sup>2</sup> 50% of Chapter 185 revenue from FYE 2020, less amount allocated to 691 Plan Reserve.

<sup>3</sup> 50% of Chapter 185 revenue from FYE 2020, plus amount allocated to 691 Plan Reserve.

 $^{\rm 4}$  Includes amount allocated to the City and adjustments.

<sup>5</sup> Held in reserve in Share Plan to offset required City contribution for FYE 2021.

Under the collective bargaining agreement covering the period October 1, 2018 through September 30, 2021, the City may apply 50% of the annual Chapter 185 revenue as an offset to the required contribution. The remaining 50% of the annual Chapter 185 revenue is allocated to the Share Plan (with a portion going to the 691 Plan reserve). The City was also previously provided with the balance of unallocated excess Chapter 185 revenue (attributable to the 748 Plan) from the Share Plan which was used as an offset to the required contribution.



**SECTION B** 

**VALUATION RESULTS** 

PARTICIPANT DATA ALL GROUPS COMBINED					
	October 1, 2020		00	ctober 1, 2019	
ACTIVE MEMBERS			<u> </u>		
Number Covered Annual Payroll Average Annual Payroll Average Age Average Past Service Average Age at Hire	\$ \$	185 12,267,117 66,309 49.2 15.1 34.1	\$ \$	189 12,384,844 65,528 48.3 14.1 34.2	
RETIREES & BENEFICIARIES			I		
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	227 7,323,484 32,262 71.3	\$ \$	234 7,306,912 31,226 70.9	
DISABILITY RETIREES					
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	2 81,176 40,588 63.9	\$ \$	2 81,176 40,588 62.9	
TERMINATED VESTED MEMBERS					
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	3 62,676 20,892 45.0	\$ \$	4 49,906 12,477 46.9	



PARTICIPANT DATA GENERAL EMPLOYEES					
	October 1, 2020		00	ctober 1, 2019	
ACTIVE MEMBERS	I		ļ		
Number Covered Annual Payroll Average Annual Payroll Average Age Average Past Service Average Age at Hire	\$ \$	184 12,144,496 66,003 49.1 15.0 34.1	\$ \$	188 12,267,884 65,255 48.2 13.9 34.3	
RETIREES & BENEFICIARIES	I		ļ		
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	199 6,520,183 32,765 69.8	\$ \$	203 6,461,000 31,828 69.3	
DISABILITY RETIREES			1		
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	2 81,176 40,588 63.9	\$ \$	2 81,176 40,588 62.9	
TERMINATED VESTED MEMBERS					
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	3 62,676 20,892 45.0	\$ \$	4 49,906 12,477 46.9	



PARTICIPANT DATA POLICE OFFICERS					
	October 1, 2020		Oct	ober 1, 2019	
ACTIVE MEMBERS					
Number Covered Annual Payroll Average Annual Payroll Average Age Average Past Service Average Age at Hire	\$ \$	1 122,621 122,621 66.6 45.3 21.3	\$ \$	1 116,960 116,960 65.6 44.3 21.3	
RETIREES & BENEFICIARIES					
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	16 426,527 26,658 80.3	\$ \$	18 433,591 24,088 79.2	
DISABILITY RETIREES					
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	0 0 0 0.0	\$ \$	0 0 0 0.0	
TERMINATED VESTED MEMBERS					
Number Annual Benefits Average Annual Benefit Average Age	\$ \$	0 0 0 0.0	\$ \$	0 0 0 0.0	



PARTICIPANT DATA FIREFIGHTERS				
October 1, 2020 Octob			ober 1, 2019	
ACTIVE MEMBERS				
Number		0		0
Covered Annual Payroll	\$	0	Ś	0
Average Annual Payroll	\$	0	\$ \$	0
Average Age	T	0.0	7	0.0
Average Past Service		0.0		0.0
Average Age at Hire		0.0		0.0
<b>RETIREES &amp; BENEFICIARIES</b>				
Number		12		13
Annual Benefits	\$	376,774	\$	412,321
Average Annual Benefit	\$	31,398	\$	31,717
Average Age		84.4		83.2
DISABILITY RETIREES				
Number		0		0
Annual Benefits	\$	0	\$	0
Average Annual Benefit	\$ \$	0	\$ \$	0
Average Age		0.0		0.0
TERMINATED VESTED MEMBERS				
Number		0		0
Annual Benefits	\$	0	s	0
Average Annual Benefit	\$	0	\$ \$	0
Average Age	Ý	0.0		0.0



ACTUARIALLY DETERMINED EMPLOYER CONTRIBUTION (ADEC) GENERAL EMPLOYEES					
A. Valuation Date	October 1, 2020	October 1, 2019			
B. ADEC to Be Paid During Fiscal Year Ending	9/30/2022	9/30/2021			
C. Assumed Dates of Employer Contributions	10/1/2021	10/1/2020			
D. Annual Payment to Amortize Unfunded Actuarial Liability	\$ 1,724,973	\$ 1,983,100			
E. Employer Normal Cost	1,386,388	1,376,923			
F. ADEC as of the Valuation Date: D+E	3,111,361	3,360,023			
Valuation Date	10/1/2020	10/1/2019			
G. ADEC if Paid Quarterly throughout the Next Fiscal Year	3,458,039	3,734,408			
H. ADEC if Paid on the First Day of the Next Fiscal Year	3,321,378	3,586,825			
First Day of Next Fiscal Year	10/1/2021	10/1/2020			
I. ADEC as % of Covered Payroll*	27.35 %	29.24 %			
J. Assumed Rate of Increase in Covered Payroll to Contribution Year	0.00 %	0.00 %			
K. Covered Payroll for Contribution Year	12,144,496	12,267,884			
L. ADEC for Contribution Year: I x K*	3,321,378	3,586,825			

# \* Assuming the contribution from Item G is paid on the first day of the next fiscal year.



ACTUARIALLY DETERMINED EMPLOYER CONTRIBUTION (ADEC) POLICE OFFICERS					
A.	Valuation Date	October 1, 2020	October 1, 2019		
В.	ADEC to Be Paid During Fiscal Year Ending	9/30/2022	9/30/2021		
C.	Assumed Dates of Employer Contributions	10/1/2021	10/1/2020		
D.	Annual Payment to Amortize Unfunded Actuarial Liability	\$ 0	\$ 0		
E.	Employer Normal Cost	35,188	34,815		
F.	ADEC as of the Valuation Date: D+E	35,188	34,815		
	Valuation Date	10/1/2020	10/1/2019		
G.	ADEC if Paid Quarterly throughout the Next Fiscal Year	39,109	38,694		
Н.	ADEC if Paid on the First Day of the Next Fiscal Year	37,563	37,165		
	First Day of Next Fiscal Year	10/1/2021	10/1/2020		
١.	ADEC as % of Covered Payroll*	30.63 %	31.78 %		
J.	Assumed Rate of Increase in Covered Payroll to Contribution Year	0.00 %	0.00 %		
К.	Covered Payroll for Contribution Year	122,621	116,960		
L.	ADEC for Contribution Year: I x K*	37,563	37,165		

# \* Assuming the contribution from Item G is paid on the first day of the next fiscal year.



	ACTUARIALLY DETERMINED EMPLOYER CONTRIBUTION (ADEC) FIREFIGHTERS				
A.	Valuation Date	October 1, 2020	October 1, 2019		
В.	ADEC to Be Paid During Fiscal Year Ending	9/30/2022	9/30/2021		
C.	Assumed Dates of Employer Contributions	10/1/2021	10/1/2020		
D.	Annual Payment to Amortize Unfunded Actuarial Liability	\$0	\$ 5,183		
E.	Employer Normal Cost	0	0		
F.	ADEC as of the Valuation Date: D+E, but not less than \$0	0	5,183		
	Valuation Date	10/1/2020	10/1/2019		
G.	ADEC if Paid Quarterly throughout the Next Fiscal Year	0	5,766		
Н.	ADEC if Paid on the First Day of the Next Fiscal Year	0 5,5			
	First Day of Next Fiscal Year	10/1/2021	10/1/2020		
١.	ADEC as % of Covered Payrol1*				
J.	Assumed Rate of Increase in Covered Payroll to Contribution Year	0.00 %	0.00 %		
К.	Covered Payroll for Contribution Year				
L.	ADEC for Contribution Year*	0	5,533		

# \* Assuming the contribution from Item G is paid on the first day of the next fiscal year.



	ACTUARIAL VALUE OF BENEFITS AND ASSETS ALL EMPLOYEES					
А.	Valuation Date	October 1, 2020	October 1, 2019			
В.	Benefits for					
	<ol> <li>Active Members         <ul> <li>a. Service Retirement Benefits</li> </ul> </li> </ol>	\$ 66,316,951	\$ 62,637,545			
	b. Vesting Benefits	819,120	902,647			
	c. Disability Benefits	314,410	317,909			
	d. Preretirement Death Benefits	604,037	598,869			
	e. Return of Member Contributions	26,286	62,759			
	f. Total	68,080,804	64,519,729			
	2. Inactive Members					
	a. Service Retirees & Beneficiaries	88,452,320	88,795,433			
	b. Disability Retirees	622,547	636,591			
	c. Terminated Vested Members	441,549	706,162			
	d. Total	89,516,416	90,138,186			
	3. Total for All Members	157,597,220	154,657,915			
С.	Actuarial Accrued (Past Service)					
	Liability	146,251,041	142,665,523			
D.	Actuarial Value of Accumulated Plan					
	Benefits per FASB No. 35	137,885,600	132,774,579			
E.	Plan Assets					
	1. Market Value	141,976,418	133,706,089			
	2. Actuarial Value	138,254,168	131,451,791			
F.	Unfunded Actuarial Accrued Liability (UAAL): C - E2	7,996,873	11,213,732			
G.	Actuarial Present Value of Projected Covered Payroll	79,845,311	83,925,710			
н.	Actuarial Present Value of Projected Member Contributions	5,241,782	5,521,675			
١.	Accumulated Contributions of Active Members	8,998,075	8,403,214			



	ACTUARIAL VALUE OF BENEFITS AND ASSETS GENERAL EMPLOYEES						
А.	Valuation Date	October 1, 2020	October 1, 2019				
В.	<ul> <li>Actuarial Present Value of All Projected Benefits for</li> <li>1. Active Members <ul> <li>a. Service Retirement Benefits</li> <li>b. Vesting Benefits</li> <li>c. Disability Benefits</li> <li>d. Preretirement Death Benefits</li> <li>e. Return of Member Contributions</li> <li>f. Total</li> </ul> </li> </ul>	\$ 64,678,763 819,120 314,410 593,817 26,286 66,432,396	\$ 61,026,947 902,647 317,909 589,844 62,759 62,900,106				
	<ol> <li>Inactive Members         <ul> <li>Service Retirees &amp; Beneficiaries</li> <li>Disability Retirees</li> <li>Terminated Vested Members</li> <li>Total</li> </ul> </li> </ol>	82,535,424 622,547 <u>441,549</u> 83,599,520	82,443,854 636,591 706,162 83,786,607				
C	3. Total for All Members Actuarial Accrued (Past Service)	150,031,916	146,686,713				
С.	Liability	138,710,793	134,718,209				
D.	Actuarial Value of Accumulated Plan Benefits per FASB No. 35	130,392,414	124,824,629				
E.	Plan Assets 1. Market Value 2. Actuarial Value	133,830,827 130,322,134	125,497,731 123,381,826				
F.	Unfunded Actuarial Accrued Liability (UAAL): C - E2	8,388,659	11,336,383				
G.	Actuarial Present Value of Projected Covered Payroll	79,722,690	83,808,750				
Н.	Actuarial Present Value of Projected Member Contributions	5,233,199	5,513,488				
١.	Accumulated Contributions of Active Members	8,757,175	8,162,314				



	ACTUARIAL VALUE OF BENEFITS AND ASSETS POLICE OFFICERS					
А.	Valuation Date	October 1, 2020	October 1, 2019			
В.	<ul> <li>Actuarial Present Value of All Projected Benefits for</li> <li>1. Active Members <ul> <li>a. Service Retirement Benefits</li> <li>b. Vesting Benefits</li> <li>c. Disability Benefits</li> <li>d. Preretirement Death Benefits</li> <li>e. Return of Member Contributions</li> <li>f. Total</li> </ul> </li> </ul>	\$ 1,638,188 - - 10,220 - 1,648,408	\$ 1,610,598 - - 9,025 - 1,619,623			
	<ol> <li>Inactive Members         <ul> <li>Service Retirees &amp; Beneficiaries</li> <li>Disability Retirees</li> <li>Terminated Vested Members</li> <li>Total</li> </ul> </li> </ol>	3,675,381 - - 3,675,381	3,820,897  3,820,897			
C.	3. Total for All Members Actuarial Accrued (Past Service)	5,323,789	5,440,520			
	Liability	5,298,733	5,416,632			
D.	Actuarial Value of Accumulated Plan Benefits per FASB No. 35	5,251,671	5,419,268			
E.	Plan Assets 1. Market Value 2. Actuarial Value	5,679,496 5,530,594	5,639,549 5,544,466			
F.	Unfunded Actuarial Accrued Liability (UAAL): C - E2	(231,861)	(127,834)			
G.	Actuarial Present Value of Projected Covered Payroll	122,621	116,960			
Н.	Actuarial Present Value of Projected Member Contributions	8,583	8,187			
١.	Accumulated Contributions of Active Members	240,900	240,900			



	ACTUARIAL VALUE OF BENEFITS AND ASSETS FIREFIGHTERS					
А.	Valuation Date	October 1, 2020	October 1, 2019			
В.	<ul> <li>Actuarial Present Value of All Projected Benefits for</li> <li>1. Active Members <ul> <li>a. Service Retirement Benefits</li> <li>b. Vesting Benefits</li> <li>c. Disability Benefits</li> <li>d. Preretirement Death Benefits</li> <li>e. Return of Member Contributions</li> <li>f. Total</li> </ul> </li> </ul>	\$ - - - - - -	\$ - - - - - - -			
	<ol> <li>Inactive Members         <ul> <li>a. Service Retirees &amp; Beneficiaries</li> <li>b. Disability Retirees</li> <li>c. Terminated Vested Members</li> <li>d. Total</li> </ul> </li> </ol>	2,241,515 - - 2,241,515	2,530,682 -  2,530,682			
	3. Total for All Members	2,241,515	2,530,682			
C.	Actuarial Accrued (Past Service) Liability	2,241,515	2,530,682			
D.	Actuarial Value of Accumulated Plan Benefits per FASB No. 35	2,241,515	2,530,682			
E.	Plan Assets 1. Market Value 2. Actuarial Value	2,466,095 2,401,440	2,568,809 2,525,499			
F.	Unfunded Actuarial Accrued Liability (UAAL): C - E2	(159,925)	5,183			
G.	Actuarial Present Value of Projected Covered Payroll	-	-			
н.	Actuarial Present Value of Projected Member Contributions	-	-			
١.	Accumulated Contributions of Active Members	-	-			



CALCULATION OF EMPLOYER NORMAL COST GENERAL EMPLOYEES					
A.	Valuation Date	October 1, 2020	October 1, 2019		
В.	Normal Cost for				
	<ol> <li>Service Retirement Benefits</li> <li>Vesting Benefits</li> <li>Disability Benefits</li> <li>Preretirement Death Benefits</li> <li>Return of Member Contributions</li> <li>Total for Future Benefits</li> <li>Assumed Amount for Administrative Expenses</li> <li>Total Normal Cost</li> <li>Total as a % of Covered Payroll</li> </ol>	\$ 1,580,719 171,388 23,679 26,394 <u>68,824</u> 1,871,004 <u>335,993</u> 2,206,997 18.17%	\$ 1,591,294 173,093 23,760 27,231 <u>69,487</u> 1,884,865 <u>320,675</u> 2,205,540 17.98%		
C.	Expected Member Contribution	820,609	828,617		
D.	Employer Normal Cost: B8-C	1,386,388	1,376,923		
E.	Employer Normal Cost as a % of Covered Payroll	11.42%	11.22%		



CALCULATION OF EMPLOYER NORMAL COST POLICE OFFICERS						
A. Valuation Date	October 1, 2020	October 1, 2019				
B. Normal Cost for						
<ol> <li>Service Retirement Benefits</li> <li>Vesting Benefits</li> <li>Disability Benefits</li> <li>Preretirement Death Benefits</li> <li>Return of Member Contributions</li> <li>Total for Future Benefits</li> <li>Assumed Amount for Administrative Expenses</li> <li>Total Normal Cost</li> <li>Total as a % of Covered Payroll</li> </ol>	\$ 22,389 2,113 208 215 964 25,889 <u>17,882</u> 43,771 35.70%	\$ 21,341 2,014 200 207 920 24,682 <u>18,320</u> 43,002 36.77%				
C. Expected Member Contribution	8,583	8,187				
D. Employer Normal Cost: B8-C	35,188	34,815				
E. Employer Normal Cost as a % of Covered Payroll	28.70%	29.77%				



	CALCULATION OF EMPLOYER NORMAL COST FIREFIGHTERS					
А.	Valuation Date	October 1, 2020	October 1, 2019			
В.	Normal Cost for					
	<ol> <li>Service Retirement Benefits</li> <li>Vesting Benefits</li> <li>Disability Benefits</li> <li>Preretirement Death Benefits</li> <li>Return of Member Contributions</li> <li>Total for Future Benefits</li> <li>Assumed Amount for Administrative Expenses</li> <li>Total Normal Cost</li> <li>Total as a % of Covered Payroll</li> </ol>	\$ - - - - - - - - - - N/A	\$ - - - - - - - - N/A			
C.	Expected Member Contribution	-	-			
D.	Employer Normal Cost: B8-C	-	-			
E.	Employer Normal Cost as a % of Covered Payroll	N/A	N/A			



#### LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY GENERAL EMPLOYEES

	Original UA	Current UAAL				
		Amortization				
		Period		Years		
Date	Source **	(Years)	Amount	Remaining	Amount	Payment
	Method Change	20	\$12,879,286	5	\$ 4,074,035	\$ 924,569
	(Gain)/Loss	20	2,772,755	6	1,074,057	209,458
	Assumption Change	20	5,079,016	6	1,967,411	383,67
	(Gain)/Loss	20	453,113	7	195,022	33,604
	Assumption Change	20	5,935,357	7	2,554,603	440,179
	(Gain)/Loss	20	759,283	8	357,563	55,55
10/1/2009	(Gain)/Loss	20	1,940,137	9	993,350	141,31
10/1/2010	(Gain)/Loss	20	(5,847,029)	10	(3,202,947)	(422,26
10/1/2010	Assumption Change	20	1,382,157	10	757,132	99,81
10/1/2011	(Gain)/Loss	20	(6,442,703)	11	(3,828,196)	(472,29
10/1/2012	(Gain)/Loss	20	326,498	12	216,167	25,15
10/1/2013	(Gain)/Loss	20	757,216	12	528,000	61,44
10/1/2014	(Gain)/Loss	20	(2,525,432)	12	(1,737,507)	(202,20
10/1/2015	(Gain)/Loss	20	423,505	12	299,413	34,84
10/1/2015	Amendment	20	(5,669,879)	12	(4,008,545)	(466,49
10/1/2016	(Gain)/Loss	20	1,751,094	12	1,297,099	150,94
10/1/2016	Assumption Change	20	4,436,049	12	3,285,944	382,40
10/1/2017	(Gain)/Loss	15	523,187	12	395,982	46,08
10/1/2017	Assumption Change	15	1,439,132	12	1,089,232	126,75
10/1/2018	(Gain)/Loss	15	1,659,091	13	1,334,531	147,46
10/1/2018	Assumption Change	15	1,521,614	13	1,223,949	135,24
10/1/2019	(Gain)/Loss	15	(893,223)	14	1,867,444	197,04
	Assumption Change	15	(1,498,489)	14	(1,391,596)	(146,83
	(Gain)/Loss	15	(953,484)	15	(953,484)	(96,52
	Police Officers Surplus*	N/A	(231,861)	N/A	(231,861)	(63,97
			19,976,390		8,156,798	1,724,97

\* The police officers' surplus is allocated to general employees.

\*\* Descriptions of the source of changes for bases other than (Gain)/Loss are described below.

10/1/2005 Method Changes:

- 1. The funding method was changed from Aggregate to Entry Age Normal with a 20-year amortization period for general employees and a 5-year amortization period for police officers.
- 2. The asset valuation method was changed to the method shown in the report prepared by Stanley, Holcombe & Associates, Inc.
- 3. The mortality table was changed from the 1983 Group Annuity Mortality Table to the RP 2000 Generational Mortality Table.



- 4. The investment earnings assumption was changed from 9% per year up to retirement and 7% thereafter to 8.5% per year. The investment earnings assumption will be reduced from 8.5% to 8% in the next actuarial valuation as of October 1, 2006.
- 5. The retirement rates used were multiplied by 80%.
- 6. The salary increase assumption was changed from a flat 6% per year to a graded rate table based on service.
- 7. It was assumed that members will choose the option (lump sum without COLA or annuity with COLA) with the greater actuarial value.

10/1/2006 Assumption Change: The investment earnings assumption was changed from 8.5% per year to 8.0% per year.

10/1/2007 Assumption Change: The investment earnings assumption was changed from 8% per year to 7.5% per year.

10/1/2010 Assumption Change: The timing of expected pay increases was changed from end of year to midyear timing.

10/1/2013 Amendment: The Plan was amended to provide an Employee Retirement Incentive Program (ERIP) which was offered to members who meet the Rule of 60, have at least ten years of City service, and are eligible for either normal or early retirement as of January 1, 2014. The ERIP provided a 4% benefit multiplier for the last 20 years of credited service. The lump sum form of payment was not available to ERIP retirees. This change in Unfunded Actuarial Accrued Liability was amortized over 5 years.

10/1/2015 Amendment: Ordinance No. 1397, adopted on March 8, 2016. This ordinance closed the Plan to new hires and changed the benefit multiplier, COLA, and member contribution rate.

10/1/2016 Assumption Changes: Decreased the investment rate of return assumption to 7.05%. Salary increase rates, retirement rates, withdrawal rates, and disability rates have all been revised based on the experience study as of 10/1/2015. The mortality assumption was changed to the same rates used by FRS for Regular Class and Special Risk Class members in their July 1, 2016 actuarial valuation, as mandated by the Florida Statutes.

10/1/2017 Assumption Changes: Decreased the investment rate of return assumption to 6.95%. The amortization period for the unfunded actuarial accrued liability of the General Employees was lowered to 15 years for any new bases and any existing bases that had over 15 years remaining as of October 1, 2017. The amortization period for the unfunded actuarial accrued liability of the Police Officers was lowered to 5 years for any new bases and any existing bases that had over 5 years remaining as of October 1, 2017.

10/1/2018 Assumption Change: The investment earnings assumption was changed from 6.95% per year to 6.85% per year.

10/1/2019 Assumption Changes: The investment earnings assumption was changed from 6.85% per year to 6.75% per year and the mortality assumptions were changed to reflect the mortality rates used by the Florida Retirement System (FRS) for Regular Class and Special Risk Class members in the July 1, 2019 FRS Actuarial Valuation.



The Unfunded Actuarial Liability is being amortized as a level dollar amount over the number of years remaining in the amortization period.

Amortization Schedule General Employees*				
Year	Year Expected UAAL			
2020	\$	8,388,659		
2021		7,045,191		
2022		5,611,045		
2023		4,080,094		
2024		2,445,804		
2025		701,199		
2025		,		
		388,438		
2035		-		

\* Excluding Police Officers Surplus



# LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY POLICE OFFICERS

UAAL Amoi	UAAL Amortization Period and Payments Police Officers After Fresh Start in 2019					
Original UAAL					Current UAA	L
		Amortization Period		Years		
Date	Category	(Years)	Amount	Remaining	Amount	Payment*
	Fresh Start UAAL (Gain)/Loss	5 5	\$ (127,834) <u>4,328</u>	4 5	\$ (236,189) <u>4,328</u>	\$ (64,952) 
			\$ (123,506)		\$ (231,861)	\$ (63,970)

\* The police officers' surplus is allocated to general employees.

The Unfunded Actuarial Liability is being amortized as a level dollar amount over the number of years remaining in the amortization period.

Amortization Schedule Police Officers				
Year	Year Expected UAAL			
2020	\$	(231,861)		
2021		(179,224)		
2022		(123,033)		
2023		(63,050)		
2024		982		
2025		-		



# LIQUIDATION OF THE UNFUNDED ACTUARIAL ACCRUED LIABILITY FIREFIGHTERS

UAAL Amortization Period and Payments Firefighters Fresh Start											
	Original U	Current UAAL									
		Amortization Period		Years							
Date	Category	(Years)	Amount	Remaining	Amount	Payment					
10/1/2020	Fresh Start UAAL	1	<u>\$(159,925)</u> \$(159,925)	1	<u>\$ (159,925)</u> \$ (159,925)	<u>· · · · ·</u>					

The Unfunded Actuarial Liability is being amortized as a level dollar amount over the number of years remaining in the amortization period.

Amortization Schedule Firefighters									
Year	Expected UAAL								
2020 2021	\$	(159,925) -							



#### ACTUARIAL GAINS AND LOSSES

When the actual plan experience differs from the actuarial assumptions, an actuarial gain or loss is the result. The net actuarial gain or loss for each group is computed as follows:

		General	Police	Fire	Total
1.	Last Year's UAAL	\$ 11,336,383	\$ (127,834)	\$ 5,183	\$ 11,213,732
2.	Last Year's Employer Normal Cost	1,305,996	33,709	-	1,339,705
3.	Last Year's Contributions	3,890,957	127,130	108,396	4,126,483
4.	Interest at the Assumed Rate on: a. 1 and 2 for one year b. 3 from dates paid c. Total: a - b	853,361 <u>262,640</u> 590,721	(6,353) <u>8,581</u> (14,934)	350 	847,358 <u>278,538</u> 568,820
5.	This Year's Expected UAAL (Before Changes): 1+2-3+4c	9,342,143	(236,189)	(110,180)	8,995,774
6.	Change in UAAL Due to Change in Benefits or Assumptions	-	-	-	-
7.	This Year's Expected UAAL (After Changes): 5+6	9,342,143	(236,189)	(110,180)	8,995,774
8.	Actual UAAL (After Changes)	8,388,659	(231,861) *	(159,925)	7,996,873
9.	Net Actuarial Gain (Loss): 7 - 8	953,484	(4,328)	49,745	998,901
10.	Gain (Loss) due to Investments				930,563
11.	Gain (Loss) due to Other Causes				68,338

\* The police officers' surplus is allocated to general employees.



The fund earnings and salary increase assumptions have considerable impact on the cost of the plan so it is important that they are in line with the actual experience. The following table shows the actual fund earnings and salary increase rates compared to the assumed rates for the last few years. The actual investment return rates shown below are based on the actuarial value of assets. The actual salary increase rates shown above are the increases received by those active members who were included in the actuarial valuations both at the beginning and end of each year.

	Annualized Investment Return		Annualized Salary Increases			
Period	Actual	Assumed	Actual	Assumed		
01/1/77 - 01/1/78	3.2 %	6.0 %	7.0 %	4.5 %		
10/1/78 - 9/30/79	3.5	6.0	15.0	4.5		
10/1/79 - 9/30/81	1.6	7.0	9.0	5.5		
10/1/81 - 9/30/83	25.5	7.0	10.0	5.5		
10/1/83 - 9/30/85	10.9	7.0	8.0	5.5		
10/1/85 - 9/30/87	19.0	7.0	6.0	5.5		
10/1/87 - 9/30/89	8.9	8.0	6.5	6.0		
10/1/89 - 9/30/90	1.1	8.0	(1.5)	6.0		
10/1/90 - 9/30/91	14.4	8.0	1.6	6.0		
10/1/91 - 9/30/92	16.2	9.0	6.5	6.0		
10/1/92 - 9/30/93	16.6	9.0	5.8	6.0		
10/1/93 - 9/30/94	2.2	9.0	7.7	7.0 *		
10/1/94 - 9/30/95	18.9	9.0	6.0	7.0 *		
10/1/95 - 9/30/96	9.5	9.0	7.4	7.0 *		
10/1/96 - 9/30/97	13.2	9.0	5.9	7.0 *		
10/1/97 - 9/30/98	10.8	9.0	5.4(G)/4.1(P)	7.0 *		
10/1/98 - 9/30/99	12.6	9.0	8.1(G)/8.2(P)	7.0 *		
10/1/99 - 9/30/00	11.4	9.0	7.1(G)/2.8(P)	7.0 *		
10/1/00 - 9/30/01	8.3	9.0	1.1(G)/0.3(P)	7.0 *		
10/1/01 - 9/30/02	(3.0)	9.0	6.2(G)/5.5(P)	6.0		
10/1/02 - 9/30/03	3.7	9.0	6.2(G)/5.4(P)	6.0		
10/1/03 - 9/30/04	1.5	9.0	5.5(G)/7.7(P)	6.0		
10/1/04 - 9/30/05	2.3	9.0	6.0(G)/8.6(P)	6.0		
10/1/05 - 9/30/06	6.3	8.5	10.3(G)/16.1(P)	5.5(G)/5.4(P)		
10/1/06 - 9/30/07	6.8	8.0	3.1(G)/3.6(P)	6.0(G)/5.4(P)		
10/1/07 - 9/30/08	3.9	7.5	1.8(G)/0.0(P)	6.1(G)/5.4(P)		
10/1/08 - 9/30/09	1.8	7.5	2.9(G)/1.2(P)	6.1(G)/5.4(P)		
10/1/09 - 9/30/10	5.3	7.5	-1.5(G)/-0.3(P)	6.0(G)/5.4(P)		
10/1/10 - 9/30/11	3.8	7.5	-8.2(G)/-16.0(P)	6.0(G)/5.4(P)		
10/1/11 - 9/30/12	6.0	7.5	5.5(G)/10.8(P)	6.0(G)/5.4(P)		
10/1/12 - 9/30/13	6.8	7.5	5.1(G)/5.5(P)	6.0(G)/5.4(P)		
10/1/13 - 9/30/14	7.5	7.5	-0.2(G)/-3.4(P)	6.2(G)/5.4(P)		
10/1/14 - 9/30/15	6.2	7.5	4.0(G)/6.6(P)	6.2(G)/5.4(P)		
10/1/15 - 9/30/16	7.1	7.5	9.7(G)/2.3(P)	6.2(G)/5.4(P)		
10/1/16 - 9/30/17	7.5	7.05	9.7(G)/2.1(P)	4.3(G)/3.0(P)		
10/1/17 - 9/30/18	8.0	6.95	7.6(G)/-0.2(P)	4.2(G)/3.0(P)		
10/1/18 - 9/30/19	7.3	6.85	7.3(G)/-3.2(P)	4.0(G)/3.0(P)		
10/1/19 - 9/30/20	7.5	6.75	1.7(G)/4.8(P)	3.9(G)/3.0(P)		
Average	8.4		4.9(G)/3.3(P) **			

\* 6% assumption for police officers and firefighters.

Average since 1997.



Actual (A) Compared to Expected (E) Decrements Among Active General Employees													
Year	Num Adc Dur Ye	led ing ar	Serv Retire	ment	Disab Retire	ment	De		Vested	Termin Other	То	tals	Active Members End of
Ended	Α	E	Α	E	A	E	Α	E	A	A	A	E	Year
9/30/2002	30	22	4	12	0	2	0	0	6	12	18	22	368
9/30/2003	23	32	11	16	0	2	0	0	5	16	21	22	359
9/30/2004	27	28	13	17	0	2	0	0	7	8	15	20	358
9/30/2005	25	31	12	17	1	2	0	1	1	17	18	18	352
9/30/2006	28	28	6	17	0	2	0	0	0	22	22	18	352
9/30/2007	38	24	4	15	0	2	0	0	11	9	20	17	366
9/30/2008	27	21	7	20	0	2	0	0	0	14	14	17	372
9/30/2009	8	18	9	23	0	2	0	0	3	6	9	17	362
9/30/2010	3	69	35	20	0	2	0	0	13	21	34	16	296
9/30/2011	15	25	18	19	0	2	0	0	1	6	7	12	286
9/30/2012	18	48	27	21	0	2	0	0	6	15	21	11	256
9/30/2013	25	17	11	16	0	1	0	0	2	4	6	10	264 *
9/30/2014	39	61	51	7	0	1	0	0	5	5	10	11	242
9/30/2015	38	40	4	8	0	1	0	0	9 ***	27 ***	36	14	240
9/30/2016	21	29	10	12	0	1	0	0	0	19	19	13	232
9/30/2017	0	0	6	12	0	0	0	0	6	6	12	13	214
9/30/2018	0	0	6	12	0	0	0	0	2	9	11	11	197
9/30/2019	0	0	5	14	0	0	0	0	1	3	4	8	188
9/30/2020	0	0	1	14	0	0	0	0	3	0	3	7	184
9/30/2021		0		18		0		0				6	
19 Yr Totals ****	365	493	240	292	1	26	0	1	81	219	300	277	

\* Before reflecting 48 ERIP retirees.

\*\* Includes 48 ERIP retirees not previously reflected.

\*\*\* Reflects 1 vested transfer and 11 nonvested transfers to FRS.



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	Actual (A) Compared to Expected (E) Decrements												
	Among Active Police Officers												
Year	Num Add Dur Ye:	led ing ar	Retir	vice ement	Disab Retire	ment	_	ath	Vested	erminati Other	То	tals	Active Members End of
Ended	Α	E	Α	E	Α	E	Α	E	A	A	Α	E	Year
9/30/2002	0	0	3	4	0	0	0	0	0	0	0	0	7
9/30/2003	0	0	1	2	0	0	0	0	0	0	0	0	6
9/30/2004	0	0	1	4	0	0	0	0	0	0	0	0	5
9/30/2005	0	0	2	3	0	0	0	0	0	0	0	0	3
9/30/2006	0	0	0	2	0	0	0	0	0	0	0	0	3
9/30/2007	0	0	0	3	0	0	0	0	0	0	0	0	3
9/30/2008	0	1	1	2	0	0	0	0	0	0	0	0	2
9/30/2009	0	1	1	2	0	0	0	0	0	0	0	0	1
9/30/2010	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2011	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2012	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2013	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2014	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2015	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2016	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2017	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2018	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2019	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2020	0	0	0	1	0	0	0	0	0	0	0	0	1
9/30/2021		0		1		0		0				0	
19 Yr Totals *	0	2	9	33	0	0	0	0	0	0	0	0	

ol (A) Compared to 

\* Totals are through current Plan Year only.



RECENT HISTORY OF REQUIRED AND ACTUAL CONTRIBUTIONS						
Valuation	For FYE	Required Contribut Employer 8		Act	ual Contribution	5
Date	Ending	Amount	% of Payroll	Employer	State	Total
10/1/1991	9/30/1993	\$ 886,728	35.58 %	\$   843,565	\$ 60,597	\$ 904,162
10/1/1991	9/30/1994	879,668	36.55	838,016	54,577	892,593
10/1/1993	9/30/1995	1,498,386	12.67	1,452,542	53,635	1,506,177
10/1/1993	9/30/1996	1,458,944	11.72	1,405,267	62,463	1,467,730
10/1/1995	9/30/1997	1,760,285	13.34	1,696,824 <sup>1</sup>	63,461	1,760,285
10/1/1995	9/30/1998	786,027	5.94	667,337	121,663	789,000
10/1/1997	9/30/1999	559,917	4.30	473,088	86,829	559,917
10/1/1997	9/30/2000	553,939	4.22	522,127	31,812	553,939
10/1/1999	9/30/2001	252,534	1.78	252,534	0	252,534
10/1/1999	9/30/2002	254,552	1.74	254,552	0	254,552
10/1/2001	9/30/2003	1,085,686	7.51	1,085,686	0	1,085,686
10/1/2002	9/30/2004	2,557,247	16.58	2,557,247	0	2,557,247
10/1/2003	9/30/2005	3,515,204	22.63	3,515,204	0	3,515,204
10/1/2004	9/30/2006	4,439,848	27.95	3,789,262	0	3,789,262
10/1/2005	9/30/2007	4,368,096	27.38	4,368,096	0	4,368,096
10/1/2006	9/30/2008	4,900,204	28.40	4,278,122 <sup>2</sup>	0	4,278,122
10/1/2007	9/30/2009	5,460,248	30.19	4,929,540 <sup>3</sup>	0	4,929,540
10/1/2008	9/30/2010	5,731,132	31.47	5,731,132	0	5,731,132
10/1/2009	9/30/2011	6,356,163	35.09	6,356,163	0	6,356,163
10/1/2010	9/30/2012	5,568,079	37.50	5,646,907	0	5,646,907
10/1/2011	9/30/2013	4,525,712	34.07	4,525,712	0	4,525,712
10/1/2012	9/30/2014	4,131,869	33.10	4,196,181	0	4,196,181
10/1/2013	9/30/2015	5,598,011	52.85	5,598,011	0	5,598,011
10/1/2014	9/30/2016	5,993,388	52.04	5,993,388	0	5,993,388
10/1/2015	9/30/2017	5,028,652	43.28	5,028,652	0	5,028,652
10/1/2016	9/30/2018	5,330,992	45.05	5,330,992	0	5,330,992
10/1/2017	9/30/2019	5,731,935	47.81	5,731,935	0	5,731,935
10/1/2018	9/30/2020	4,126,483	34.41	4,126,483	0	4,126,483
10/1/2019 10/1/2020	9/30/2021 9/30/2022	3,629,523 3,358,941	29.31 27.38			
	5,50,2022	0,000,011	27.00			

<sup>1</sup> Does not include proceeds of Pension Obligation Bond in the amount of \$10,868,833.

<sup>2</sup> Reflects the exclusion of \$622,082 of the County contribution receivable for the year ending September 30, 2007, and the inclusion of a \$646,704 County contribution receivable for the year ending September 30, 2008, as shown on the September 30, 2008 financial statements.

<sup>3</sup> Reflects the exclusion of \$646,704 of the County contribution receivable for the year ending September 30, 2008, and the inclusion of a \$115,996 County contribution receivable for the year ending September 30, 2009.



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Valuation Date	Actuarial Value of Assets (a)	Actuarial Accrued Liability (AAL) Entry Age Normal (b)	Unfunded Actuarial Accrued Liability (UAAL) Entry Age Normal (b)-(a)	Funded Ratio (a)/(b)	Annual Covered Payroll (c)	UAAL As % of Payroll (b-a)/(c)
10/1/1995	\$ 38,882,450	\$ 50,248,832	\$ 11,366,382	77.4 %	\$ 13,194,968	86.1 %
10/1/1997	52,072,871	52,298,792	225,921	99.6	13,043,842	1.7
10/1/1999	58,875,802	56,780,548	(2,095,254)	103.7	14,139,623	(14.8)
10/1/2001	62,110,336	59,943,465	(2,166,871)	103.6	14,453,082	(15.0)
10/1/2002	55,291,559	62,380,560	7,089,001	88.6	15,421,323	46.0
10/1/2003	53,926,829	64,432,281	10,505,452	83.7	15,530,805	67.6
10/1/2004	54,227,261	67,485,625	13,258,364	80.4	15,886,989	83.5
10/1/2005	60,623,796	75,784,482	15,160,686	80.0	15,952,834	95.0
10/1/2006	65,393,710	87,268,437	21,874,727	74.9	17,256,272	126.8
10/1/2007	71,450,969	98,986,010	27,535,040	72.2	18,089,097	152.2
10/1/2008	75,784,705	104,182,882	28,398,177	72.7	18,213,561	155.9
10/1/2009	78,535,899	109,631,323	31,095,424	71.6	18,114,099	171.7
10/1/2010	81,080,885	107,183,003	26,102,118	75.6	14,849,412	175.8
10/1/2011	85,534,546	102,996,257	17,461,711	83.0	13,284,175	131.4
10/1/2012	88,127,070	103,821,983	15,694,913	84.9	12,483,246	125.7
10/1/2013	93,681,544	116,495,470	22,813,926	80.4	10,592,994	215.4
10/1/2014	98,182,705	118,154,197	19,971,492	83.1	11,524,318	173.3
10/1/2015	103,126,258	115,328,753	12,202,495	89.4	11,618,974	105.0
10/1/2016	110,067,733	125,673,386	15,605,653	87.6	11,834,735	131.9
10/1/2017	116,705,372	131,767,372	15,062,000	88.6	11,989,341	125.6
10/1/2018	124,421,561	139,415,310	14,993,749	89.2	11,992,650	125.0
10/1/2019	131,451,791	142,665,523	11,213,732	92.1	12,384,844	90.5
10/1/2020	138,254,168	146,251,041	7,996,873	94.5	12,267,117	65.2

# **RECENT HISTORY OF UAAL AND FUNDED RATIO**



# ACTUARIAL ASSUMPTIONS AND COST METHOD

# **Valuation Methods**

**Actuarial Cost Method** - Normal cost and the allocation of benefit values between service rendered before and after the valuation date were determined using an **Individual Entry-Age Actuarial Cost Method** having the following characteristics:

- the annual normal cost for each individual active member, payable from the date of employment to the date of retirement, is sufficient to accumulate the value of the member's benefit at the time of retirement;
- (ii) each annual normal cost is a constant percentage of the member's year by year projected covered pay.

Actuarial gains/(losses), as they occur, reduce (increase) the Unfunded Actuarial Accrued Liability.

*Financing of Unfunded Actuarial Accrued Liabilities -* Unfunded Actuarial Accrued Liabilities (full funding credit if assets exceed liabilities) were amortized by level (principal & interest combined) dollar contributions over a reasonable period of future years.

Actuarial Value of Assets - The Actuarial Value of Assets phase in the difference between the expected actuarial value and actual market value of assets at the rate of 20% per year. The Actuarial Value of Assets will be further adjusted to the extent necessary to fall within the corridor whose lower limit is 80% of the Market Value of plan assets and whose upper limit is 120% of the Market Value of plan assets. During periods when investment performance exceeds the assumed rate, Actuarial Value of Assets will tend to be less than Market Value. During periods when investment performance is less than assumed rate, Actuarial Value of Assets will tend to be greater than Market Value.

# **Valuation Assumptions**

**The actuarial assumptions used** in the valuation are shown in this Section. Both the economic and decrement assumptions were established following the Experience Study Report as of October 1, 2015. The covered group is too small to provide statistically significant experience on which to base the mortality assumption. Mortality is based on a commonly used mortality table and projection scale.

#### **Economic Assumptions**

*The investment return rate* assumed in the valuations is 6.75% per year, compounded annually (net after investment expenses).

*The Inflation Rate* assumed in this valuation is 2.5% per year. The Inflation Rate is defined to be the long term rate of annual increases in goods and services.

The assumed *real rate of return* over inflation is defined to be the portion of total investment return that is more than the assumed inflation rate. Considering other economic assumptions, the 6.75% investment return rate translates to an assumed real rate of return over wage inflation of 4.25%.



**Pay increase assumptions** for individual active members are shown below. Part of the assumption for each service year is for productivity, merit and/or seniority increases, and the other 2.5% recognizes inflation.

*The rates of salary increase* used for individual members are in accordance with the following table. This assumption is used to project a member's current salary to the salaries upon which benefits will be based.

-	%	Increase in Sala	ry
Years of	Merit and	Base	Total
Service	Seniority	(Economic)	Increase
0 - 2	3.5%	2.5%	6.0%
3 - 5	2.5%	2.5%	5.0%
6 - 9	2.0%	2.5%	4.5%
10 - 14	1.5%	2.5%	4.0%
15 - 19	1.0%	2.5%	3.5%
20 and Higher	0.5%	2.5%	3.0%

## **Demographic Assumptions**

**The mortality table** for General Employees is the PUB-2010 Headcount Weighted Below Median Employee Male Table (pre-retirement), the PUB-2010 Headcount Weighted Below Median Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Below Median Healthy Retiree Male Table (post-retirement) and the PUB-2010 Headcount Weighted Below Median Retiree Female Table (post-retirement). These tables use ages set back one year for males and future improvements in mortality projected to all future years after 2010 using scale MP 2018. These are the same rates used for Regular Class members of the Florida Retirement System (FRS) in their actuarial valuation as of July 1, 2019.

Sample Attained	Probabili Dying Nex	-	Future Expectane	
Ages (in 2020)	Men	Women	Men	Women
50	0.19 %	0.58 %	33.04	36.86
55	0.97	0.58	28.67	32.42
60	1.15	0.60	24.59	27.89
65	1.29	0.69	20.55	23.32
70	1.80	1.10	16.55	18.85
75	2.88	1.90	12.85	14.66
80	4.87	3.44	9.58	10.92

# FRS Healthy Post-Retirement Mortality for Regular Class Members

This assumption is used to measure the probabilities of each benefit payment being made after retirement.



For disabled retirees, the mortality table used was the PUB-2010 Headcount-Weighted General Disabled Retiree Tables with ages set forward 3 years for males and females.

Sample	Probabili	ity of	Future Life		
Attained	Dying Ne>	(t Year	Expectan	cy (years)	
Ages (in 2020)	Men	Women	Men	Women	
50	2.02 %	1.64 %	20.99	23.92	
55	2.53	1.91	18.18	20.88	
60	3.08	2.27	15.50	17.88	
65	3.93	2.83	12.94	14.91	
70	5.08	3.79	10.53	12.07	
75	6.98	5.46	8.29	9.45	
80	10.12	8.31	6.33	7.19	

## **FRS Disabled Mortality for Regular Class Members**

The *mortality tables* for Police and Fire members are the PUB-2010 Headcount Weighted Safety Below Median Employee Male Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Below Median Healthy Retiree Male Table (post-retirement) and the PUB-2010 Safety Healthy Retiree Female Table (post-retirement). These tables use ages set forward one year and mortality improvements to all future years after 2010 using scale MP-2018. These are the same rates used for Special Risk Class members in the July 1, 2019 Actuarial Valuation of the Florida Retirement System (FRS).

	Sample Attained	Probabili Dying Nex	-	Future Expectane	
_	Ages (in 2020)	Men	Women	Men	Women
-	50	0.42 %	0.20 %	32.40	36.24
	55	0.56	0.36	27.63	31.21
	60	0.93	0.61	23.05	26.43
	65	1.32	0.92	18.80	21.93
	70	2.09	1.45	14.80	17.68
	75	3.56	2.44	11.21	13.75
	80	6.35	4.19	8.14	10.30

#### FRS Healthy Post-Retirement Mortality for Special Risk Class Members

This assumption is used to measure the probabilities of each benefit payment being made after retirement.

For disabled retirees, the mortality tables used were 80% of the PUB-2010 Headcount Weighted General Disabled Retiree Male Table and 20% of the Headcount Weighted Safety Disabled Retiree Male Table, and 80% of the PUB-2010 Headcount Weighted General Disabled Retiree Female Table and 20% Headcount Weighted Safety Disabled Retiree Female Table, both with no provision being made for future mortality improvements. These are the same rates used for Special Risk Class members in the July 1, 2019 Actuarial Valuation of the Florida Retirement System (FRS).



Sample Attained	Probabil Dying Nex	•	Future Expectane	e Life cy (years)
Ages (in 2020)	Men	Women	Men	Women
50	1.45 %	1.25 %	24.04	26.84
55	1.91	1.50	20.88	23.54
60	2.37	1.81	17.92	20.32
65	3.00	2.22	15.07	17.17
70	3.91	2.90	12.39	14.10
75	5.30	4.13	9.87	11.22
80	7.66	6.21	7.60	8.67

## FRS Disabled Mortality for Special Risk Class Members

*The rates of retirement* used to measure the probability of eligible members retiring during the next year were as follows:

Number of Years After First Eligibility	-
for Normal Retirement	Retirement
0	30 %
1	25
2	25
3	25
4	25
5	50
6	50
7	50
8	50
9	50
10+	100

The rate of retirement is 7% for each year of eligibility for early retirement under the early retirement eligibility at 14 years of service regardless of age. The rate of retirement is 10% for each year of eligibility for early retirement under the early retirement eligibility at age 55 with 10 years of service.

**Rates of separation from active membership** were as shown below (rates do not apply to members eligible to retire and do not include separation on account of death or disability). This assumption measures the probabilities of members remaining in employment.



Sample	Years of	% of Active Members
Ages	Service	Separating Within Next Year
ALL	Under 1	13.0 %
	1	13.0
	2	13.0
	3	10.0
	4	10.0
	5	9.0
	6	9.0
	7	5.0
	8	4.5
	9	4.0
25 - 39	10 & Over	4.0
40 - 49		3.5
50 & Over		3.0

*Rates of disability* among active members. (50% of future disability retirements are assumed to be service-connected.)

Sample	% of Active Members Becoming
Ages	Disabled Within Next Year
20	0.01%
25	0.01%
30	0.01%
35	0.01%
40	0.02%
45	0.03%
50	0.05%
55	0.10%
60	0.17%

Changes Since Prior Valuation - None



# **Miscellaneous and Technical Assumptions**

Administrative & Investment Expenses	The investment return assumption is intended to be the return net of investment expenses. Annual administrative expenses are assumed to be equal to the average of the expenses over the previous two years. Assumed administrative expenses are added to the Normal Cost.
Benefit Service	Exact fractional service is used to determine the amount of benefit payable.
COLA	For future retirees, benefits are assumed to increase at rates varying from 1.5% to 3% per year, starting five years after retirement, based on service as of November 10, 2015.
Decrement Operation	Disability and mortality decrements operate during retirement eligibility.
Decrement Timing	Decrements of all types are assumed to occur at the beginning of the year.
Eligibility Testing	Eligibility for benefits is determined based upon the age nearest birthday and service nearest whole year on the date the decrement is assumed to occur.
Forfeitures	For vested separations from service, it is assumed that 0% of members separating will withdraw their contributions and forfeit an employer financed benefit. It was further assumed that the liability at termination is the greater of the vested deferred benefit (if any) or the member's accumulated contributions.
Incidence of Contributions	Employer contributions are assumed to be made at the beginning of the fiscal year for general employees and police officers and at the end of each calendar quarter for firefighters. Member contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.
Marriage Assumption	100% of males and 100% of females are assumed to be married for purposes of death-in-service benefits. Male spouses are assumed to be three years older than female spouses for active member valuation purposes.
Normal Form of Benefit	A life annuity is the normal form of benefit.
Pay Increase Timing	Middle of fiscal year. This is equivalent to assuming that reported pays represent amounts paid to members during the year ended on the valuation date.
Service Credit Accruals	It is assumed that members accrue one year of service credit per year.



# GLOSSARY

Actuarial Accrued Liability (AAL)	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 (APV)	The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.
Actuarial Present Value of Future Benefits (APVFB)	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, nonretired 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 determined employer contribution (ADEC).



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.
Amortization Payment	That portion of the plan contribution or ADEC 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.
Actuarially Determined Employer Contribution (ADEC)	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The ADEC consists of the Employer Normal Cost and Amortization Payment.
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	For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period.
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.
Amortization Period Experience Gain/Loss	For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization



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



**SECTION C** 

**PENSION FUND INFORMATION** 

Statement of Plan As	sets at Market Value
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	September 30					
Item	2020	2019				
A. Cash and Cash Equivalents (Operating Cash)	\$-	\$-				
B. Receivables						
1. Member Contributions	\$ 8,842	\$ 3,123				
2. City Contributions	-	-				
3. County Contributions	-	-				
4. State Contributions (from Share Plan)	40,393	38,025				
5. Investment Income and Other Receivables	214,454	194,162				
6. Total Receivables	\$ 263,689	\$ 235,310				
C. Investments						
1. Short Term Investments	\$ 3,411,020	\$ 1,832,365				
2. Domestic Equities	85,940,511	79,055,559				
3. International Equities	-	-				
4. Domestic Fixed Income	31,035,470	31,687,294				
5. International Fixed Income	-	-				
6. Real Estate	21,941,681	21,543,006				
7. Private Equity		-				
8. Total Investments	\$ 142,328,682	\$ 134,118,224				
D. Liabilities						
1. Benefits Payable	\$ (36,578)	\$ (489,083)				
2. Accrued Expenses and Other Payables	(538,982)	(120,337)				
3. Total Liabilities	\$ (575,560)	\$ (609,420)				
E. Total Market Value of Assets Available for Benefits	\$ 142,016,811	\$ 133,744,114				
F. State Contribution Reserve	\$ (40,393)	\$ (38,025)				
G. Market Value of Assets Net State Contribution Reserve	\$ 141,976,418	\$ 133,706,089				
H. Employee Contribution Refunds Payable to FRS Transfers	-	-				
I. Market Value Net of Contribution Refunds Payable	\$ 141,976,418	\$ 133,706,089				
J. Allocation of Investments						
1. Short Term Investments	2.4%	1.4%				
2. Domestic Equities	60.4%	58.9%				
3. International Equities	0.0%	0.0%				
4. Domestic Fixed Income	21.8%	23.6%				
5. International Fixed Income	0.0%	0.0%				
6. Real Estate	15.4%	16.1%				
7. Private Equity	0.0%	0.0%				
8. Total Investments	100.0%	100.0%				



Reconciliation	of Plan	Assets
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	September 30			
Item		2020		2019
A. Market Value of Assets at Beginning of Year	\$	133,706,089	\$	129,604,854
B. Adjustment to Match Financial Statements	\$	-	\$	-
<ul><li>C. Revenues and Expenditures</li><li>1. Contributions</li></ul>				
a. Member Contributions	\$	833,994	\$	824,981
b. City Contributions		4,018,087		5,537,669
c. County Contributions		108,396		194,266
d. Total	\$	4,960,477	\$	6,556,916
2. Investment Income				
a. Interest, Dividends, and Other Income	\$	1,236,537	\$	1,311,940
<ul> <li>b. Net Realized/Unrealized Gains/(Losses)*</li> </ul>		10,585,137		5,449,399
c. Investment Expenses		(513,424)		(482,159)
d. Net Investment Income	\$	11,308,250	\$	6,279,180
3. Benefits and Refunds				
a. Regular Monthly Benefits	\$	(7,576,673)	\$	(7,569,584)
b. Refunds		(22,347)		(26,378)
c. Lump Sum Benefits		(36,578)		(793,949)
d. Total	\$	(7,635,598)	\$	(8,389,911)
4. Administrative and Miscellaneous Expenses	\$	(362,800)	\$	(344,950)
5. Employee Contribution Refunds Payable to FRS Transfers	\$	-	\$	-
D. Market Value of Assets at End of Year	\$	141,976,418	\$	133,706,089

\* The breakdown between realized and unrealized gains and (losses) was not provided.



	September 30, 2020								
Item	General			Police		Fire		Total	
A. Market Value of Assets at Beginning of Year	\$	125,497,731	\$	5,639,549	\$	2,568,809	\$	133,706,089	
B. Adjustment to Match Financial Statements	\$	-	\$	-	\$	-	\$	-	
<ul><li>C. Revenues and Expenditures</li><li>1. Contributions</li></ul>									
a. Member Contributions	\$	825,537	\$	8,457	\$	-	\$	833,994	
b. City Contributions		3,890,957	-	127,130		-		4,018,087	
c. County Contributions		-		-		108,396		108,396	
d. Total	\$	4,716,494	\$	135,587	\$	108,396	\$	4,960,477	
2. Investment Income									
a. Interest, Dividends, and Other Income	\$	1,176,051	\$	39,456	\$	21,030	\$	1,236,537	
<ul> <li>b. Net Realized/Unrealized Gains/(Losses)</li> </ul>		10,067,355		337,756		180,026		10,585,137	
c. Investment Expenses		(488,309)		(16,383)		(8,732)		(513,424)	
d. Net Investment Income	\$	10,755,097	\$	360,829	\$	192,324	\$	11,308,250	
3. Benefits and Refunds									
a. Regular Monthly Benefits and Lump Sums	\$	(6,771,095)	\$	(438,722)	\$	(403,434)	\$	(7,613,251)	
b. Refunds		(22,347)		-		_		(22,347)	
c. Total	\$	(6,793,442)	\$	(438,722)	\$	(403,434)	\$	(7,635,598)	
4. Administrative and Miscellaneous Expenses	\$	(345,053)	\$	(17,747)	\$	-	\$	(362,800)	
D. Market Value of Assets at End of Year	\$	133,830,827	\$	5,679,496	\$	2,466,095	\$	141,976,418	
E. Percentage of Total		94.3%		4.0%		1.7%		100.0%	

# Reconciliation of Plan Assets by Group



	September 30				
ltem		2020		2019	
A Beginning of Veer Assets					
<ul> <li>A. Beginning of Year Assets</li> <li>1. Market Value</li> </ul>	\$	133,706,089	\$	129,604,854	
2. Actuarial Value	ç	131,451,791	Ş	124,421,561	
2. Actualial value		151,451,791		124,421,501	
B. End of Year Market Value					
of Assets		141,976,418		133,706,089	
C. Net of Contributions					
Less Disbursements		(3,037,921)		(2,177,945)	
D. Actual Net Investment					
Earnings*		11,308,250		6,279,180	
E. Expected Investment					
Earnings*		8,909,735		8,644,601	
F. Expected Actuarial Value					
End of Year		137,323,605		130,888,217	
G. Market Value End of Year Less					
Expected Actuarial Value: B - F		4,652,813		2,817,872	
H. 20% of Difference		930,563		563,574	
I. End of Year Assets					
1. Actuarial Value:					
F + H		138,254,168		131,451,791	
2. Final Actuarial Value					
Within 80% to 120%					
of Market Value		138,254,168		131,451,791	
J. Employee Contribution Refunds Payable					
to FRS Transfers		0		0	
K. Net Valuation Assets		138,254,168		131,451,791	
L. Recognized Investment Earnings		9,840,298		9,208,175	
M. Recognized Rate of Return		7.5%		7.3%	

# **Actuarial Value of Assets**

\* Net of Investment Related Expenses.

Note: Actuarial Value of Assets by group is distributed in the same ratio as market value.



September 30th         Market Value*         Actuarial Value           1990         1.1 %         1.1 %           1991         14.4         14.4           1992         16.2         16.2           1993         16.6         16.6           1994         2.2         2.2           1995         18.9         18.9           1996         12.4         9.5           1997         28.0         13.2           1998         0.8         10.8           1999         18.6         12.6           2000         4.3         11.4           2001         (3.8)         8.3           2002         (7.2)         (3.0)           2003         13.7         3.7           2004         8.7         1.5           2005         9.0         2.3           2006         7.0         6.3           2007         11.5         6.8           2008         (6.8)         3.9           2009         (1.8)         1.8           2010         7.9         5.3           2011         2.4         3.8           2012         16.7         6.0 <th>Year Ending</th> <th colspan="6">Investment Rate of Return</th>	Year Ending	Investment Rate of Return					
1991       14.4       14.4         1992       16.2       16.2         1993       16.6       16.6         1994       2.2       2.2         1995       18.9       18.9         1996       12.4       9.5         1997       28.0       13.2         1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       10.0       7.5	September 30th	Market Value*	Actuarial Value				
1991       14.4       14.4         1992       16.2       16.2         1993       16.6       16.6         1994       2.2       2.2         1995       18.9       18.9         1996       12.4       9.5         1997       28.0       13.2         1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       10.0       7.5							
1991       14.4       14.4         1992       16.2       16.2         1993       16.6       16.6         1994       2.2       2.2         1995       18.9       18.9         1996       12.4       9.5         1997       28.0       13.2         1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       10.0       7.5	1000	1 1 0/	1 1 0/				
1992       16.2       16.2         1993       16.6       16.6         1994       2.2       2.2         1995       18.9       18.9         1996       12.4       9.5         1997       28.0       13.2         1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5							
1993       16.6       16.6         1994       2.2       2.2         1995       18.9       18.9         1996       12.4       9.5         1997       28.0       13.2         1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0      <							
1994       2.2       2.2         1995       18.9       18.9         1996       12.4       9.5         1997       28.0       13.2         1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5 <t< td=""><td></td><td></td><td></td></t<>							
1995       18.9       18.9         1996       12.4       9.5         1997       28.0       13.2         1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5      <							
1996       12.4       9.5         1997       28.0       13.2         1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         2018       10.6       8.0 <t< td=""><td>1994</td><td>2.2</td><td>2.2</td></t<>	1994	2.2	2.2				
1997       28.0       13.2         1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:       2.1 %       7.5 %         Last 10 Years       8.6 %	1995	18.9	18.9				
1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:       2.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	1996	12.4	9.5				
1998       0.8       10.8         1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:       2.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	1997	28.0	13.2				
1999       18.6       12.6         2000       4.3       11.4         2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Last 5 Years       9.1 %       7.5 % <td></td> <td>0.8</td> <td></td>		0.8					
2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:       9.1 %       7.5 %         Last 5 Years       9.1 %       6.8 %							
2001       (3.8)       8.3         2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:       9.1 %       7.5 %         Last 5 Years       9.1 %       6.8 %	2222	1.2					
2002       (7.2)       (3.0)         2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:       2020       8.4       7.5 %         Last 10 Years       8.6 %       6.8 %							
2003       13.7       3.7         2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:       Last 5 Years       9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %							
2004       8.7       1.5         2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:       2020       8.6 %	2002	(7.2)	(3.0)				
2005       9.0       2.3         2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Last 5 Years         9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	2003	13.7	3.7				
2006       7.0       6.3         2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Last 5 Years         9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	2004	8.7	1.5				
2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Last 5 Years         9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	2005	9.0	2.3				
2007       11.5       6.8         2008       (6.8)       3.9         2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Last 5 Years         9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	2006	7.0	6.3				
2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Last 5 Years         Last 10 Years       8.6 %       6.8 %		11.5	6.8				
2009       (1.8)       1.8         2010       7.9       5.3         2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Last 5 Years         Last 10 Years       8.6 %       6.8 %	2008	(6.8)	3.9				
2011       2.4       3.8         2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Last 5 Years         10 Years       8.6 %       6.8 %	2009		1.8				
2012       16.7       6.0         2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Last 5 Years         10 Years       8.6 %	2010	7.9	5.3				
2013       10.1       6.8         2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:         Last 5 Years       9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	2011	2.4	3.8				
2014       10.6       7.5         2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:         Last 5 Years       9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	2012	16.7	6.0				
2015       0.8       6.2         2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:         Last 5 Years       9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	2013	10.1	6.8				
2016       11.0       7.1         2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:         Last 5 Years       9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %	2014	10.6	7.5				
2017       11.0       7.5         2018       10.6       8.0         2019       4.8       7.3         2020       8.4       7.5         Average Returns:         Last 5 Years       9.1 %       7.5 %         Last 10 Years       8.6 %       6.8 %		0.8	6.2				
2018         10.6         8.0           2019         4.8         7.3           2020         8.4         7.5           Average Returns:           Last 5 Years         9.1 %         7.5 %           Last 10 Years         8.6 %         6.8 %	2016	11.0	7.1				
2019         4.8         7.3           2020         8.4         7.5           Average Returns:             Last 5 Years         9.1 %         7.5 %           Last 10 Years         8.6 %         6.8 %		11.0					
2020         8.4         7.5           Average Returns:             Last 5 Years         9.1 %         7.5 %           Last 10 Years         8.6 %         6.8 %							
Average Returns:           Last 5 Years         9.1 %         7.5 %           Last 10 Years         8.6 %         6.8 %	2019	4.8	7.3				
Last 5 Years         9.1 %         7.5 %           Last 10 Years         8.6 %         6.8 %	2020	8.4	7.5				
Last 10 Years 8.6 % 6.8 %	Average Returns:						
Last 10 Years 8.6 % 6.8 %	Last 5 Years	9.1 %	7.5 %				
	Last 10 Years						
	All Years	8.3 %	7.6 %				

\* Net of investment expenses after 2005.

The above rates are based on financial information reported to the actuary. They may differ from figures that the investment consultant reports, in part because of differences in the handling of administrative and investment expenses, and in part because of differences in the handling of cash flows.



**SECTION D** 

**FINANCIAL ACCOUNTING INFORMATION** 

	FASB NO. 35 INFORMATION									
General Police Fire										
Α.	Valuation Date	10/1/2020	10/1/2020	10/1/2020	10/1/2020					
В.	Actuarial Present Value of Accumulated Plan Benefits									
	1. Vested Benefits									
	a. Members Currently Receiving Payments b. Terminated Vested Members c. Other Members d. Total	\$ 83,157,971 441,549 45,183,296 128,782,816	\$ 3,675,381 - <u>1,576,290</u> 5,251,671	\$ 2,241,515 - - 2,241,515	\$ 89,074,867 441,549 46,759,586 136,276,002					
	2. Non-Vested Benefits	1,609,598	-	-	1,609,598					
	<ol> <li>Total Actuarial Present Value of Accumulated Plan Benefits: 1d + 2</li> </ol>	130,392,414	5,251,671	2,241,515	137,885,600					
	4. Accumulated Contributions of Active Members	8,757,175	240,900	-	8,998,075					
C.	Changes in the Actuarial Present Value of Accumulated Plan Benefits									
	1. Total Value at Beginning of Year	124,824,629	5,419,268	2,530,682	132,774,579					
	2. Increase (Decrease) During the Period Attributable to:									
	<ul> <li>a. Plan Amendment</li> <li>b. Change in Actuarial Assumptions</li> <li>c. Latest Member Data, Benefits Accumulated, and Decrease in the</li> </ul>	-	-	-	-					
	Discount Period	12,361,227	271,125	114,267	12,746,619					
	d. Benefits Paid	(6,793,442)	(438,722)	(403,434)	(7,635,598)					
	e. Net Increase	5,567,785	(167,597)	(289,167)	5,111,021					
	3. Total Value at End of Period	130,392,414	5,251,671	2,241,515	137,885,600					
D.	Market Value of Assets	133,830,827	5,679,496	2,466,095	141,976,418					
E.	Actuarial Assumptions - See page entitled Actuarial Assumptions and Methods									



# SCHEDULE OF CHANGES IN THE EMPLOYER'S NET PENSION LIABILITY AND RELATED RATIOS GASB Statement No. 67

Fiscal year ending September 30,	2020	2019	2018	2017	2016	2015	2014
Total Pension Liability							
Service Cost	\$ 1,908,045	\$ 1,812,287	\$ 1,759,663	\$ 1,959,651	\$ 2,659,600	\$ 2,438,790	\$ 2,250,457
Interest	9,617,391	9,216,810	8,939,070	8,775,025	9,099,037	8,937,243	8,638,765
Benefit Changes	-	-	-	-	(6,839,780)	-	-
Difference between actual & expected experience	2,635,026	3,067,379	1,551,666	2,228,073	(1,266,151)	(2,263,638)	-
Assumption Changes	(2,353,306)	1,601,838	1,522,923	4,504,616	-	-	-
Benefit Payments	(7,613,250)	(8,363,533)	(7,487,572)	(7,225,538)	(7,034,144)	(6,863,520)	(6,939,695)
Refunds	(22,347)	(26,378)	(136,942)	(98,051)	(190,942)	(265,792)	(185,090)
Other (Increase in State Contribution Reserve)	2,368	2,595	1,901	1,657	1,423	1,253	1,253
Net Change in Total Pension Liability	4,173,927	7,310,998	6,150,709	10,145,433	(3,570,957)	1,984,336	3,765,690
Total Pension Liability - Beginning	142,309,622	134,998,624	128,847,915	118,702,482	122,273,439	120,289,103	116,523,413
Total Pension Liability - Ending (a)	\$ 146,483,549	\$ 142,309,622	\$ 134,998,624	\$ 128,847,915	\$ 118,702,482	\$ 122,273,439	\$ 120,289,103
Plan Fiduciary Net Position							
Contributions - Employer	\$ 4,018,087	\$ 5,537,669	\$ 5,135,715	\$ 4,924,792	\$ 5,900,606	\$ 5,452,219	\$ 4,024,959
Contributions - Employer (from State/Share Plan)	2,368	2,595	1,901	1,657	1,423	1,253	1,253
Contributions - Non-Employer Contributing Entity	108,396	194,266	195,277	103,860	92,782	145,792	171,222
Contributions - Member	833,994	824,981	813,650	788,484	920,667	853,456	789,599
Net Investment Income	11,308,249	6,279,180	12,802,737	12,071,492	11,084,389	548,641	9,493,224
Benefit Payments	(7,613,250)	(8,363,533)	(7,487,572)	(7,225,538)	(7,034,144)	(6,863,520)	(6,939,695)
Refunds	(22,347)	(26,378)	(136,942)	(98,051)	(190,942)	(265,792)	(185,090)
Administrative Expense	(362,800)	(344,950)	(333,039)	(262,418)	(250,675)	(235,209)	(284,291)
Other	-		-	-	-	-	
Net Change in Plan Fiduciary Net Position	8,272,697	4,103,830	10,991,727	10,304,278	10,524,106	(363,160)	7,071,181
Plan Fiduciary Net Position - Beginning	133,744,114	129,640,284	118,648,557	108,344,279	97,820,173	98,183,333	91,112,152
Plan Fiduciary Net Position - Ending (b)	\$ 142,016,811	\$ 133,744,114	\$ 129,640,284	\$ 118,648,557	\$ 108,344,279	\$ 97,820,173	\$ 98,183,333
Net Pension Liability - Ending (a) - (b)	4,466,738	8,565,508	5,358,340	10,199,358	10,358,203	24,453,266	22,105,770
Plan Fiduciary Net Position as a Percentage							
of Total Pension Liability	96.95 %	93.98 %	96.03 %	92.08 %	91.27 %	80.00 %	81.62 %
Covered Payroll*	\$ 12,384,844	\$ 11,992,650	\$ 11,989,341	\$ 11,834,735	\$ 11,618,974	\$ 12,192,229	\$ 11,279,986
Net Pension Liability as a Percentage							
of Covered Payroll	36.07 %	71.42 %	44.69 %	86.18 %	89.15 %	200.56 %	195.97 %

\* Estimated covered payroll.



# SCHEDULE OF THE EMPLOYER'S NET PENSION LIABILITY GASB Statement No. 67

EV Ending	Total Pension	Plan Fiduciary	Net Pension	Plan Fiduciary Net Position as a % of	Covered	Net Pension Liability as a % of
FY Ending		,			Covereu	
September 30,	Liability	Net Position	Liability	Total Pension Liability	Payroll	Covered Payroll
2014	\$ 120,289,103	\$ 98,183,333	\$22,105,770	81.62%	\$11,279,986	195.97%
2015	122,273,439	97,820,173	24,453,266	80.00%	12,192,229	200.56%
2016	118,702,482	108,344,279	10,358,203	91.27%	11,618,974	89.15%
2017	128,847,915	118,648,557	10,199,358	92.08%	11,834,735	86.18%
2018	134,998,624	129,640,284	5,358,340	96.03%	11,989,341	44.69%
2019	142,309,622	133,744,114	8,565,508	93.98%	11,992,650	71.42%
2020	146,483,549	142,016,811	4,466,738	96.95%	12,384,844	36.07%



# NOTES TO SCHEDULE OF EMPLOYER'S NET PENSION LIABILITY GASB Statement No. 67

Valuation Date: Measurement Date:	October 1, 2019 September 30, 2020
	<ul> <li>Sed to Determine Net Pension Liability:</li> <li>Entry Age Normal</li> <li>The Total Pension Liability was developed by using standard actuarial techniques to roll forward amounts from the October 1, 2019 actuarial valuation one year to the measurement date.</li> <li>2.50%</li> <li>3.00% to 6.00% depending on service</li> <li>6.75%</li> <li>Experience-based table of rates</li> <li>The mortality table for General Employees is the PUB-2010</li> <li>Headcount Weighted Below Median Employee Male Table (preretirement), the PUB-2010 Headcount Weighted Below Median Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Below Median</li> <li>Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Below Median Healthy Retiree Male Table (post-retirement) and the PUB-2010 Headcount Weighted Below Median</li> <li>Retiree Female Table (post-retirement). These tables use ages set back one year for males and future improvements in mortality projected to all future years after 2010 using scale MP-2018. These are the same rates used for Regular Class members of the Florida Retirement System (FRS) in their actuarial valuation as of July 1, 2019.</li> <li>The mortality tables for Police and Fire members are the PUB-2010 Headcount Weighted Safety Below Median Employee Male Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Employee Female Table (pre-retirement), the PUB-2010 Headcount Weighted Safety Below Median Employee Male Table (post-retirement), the PUB-2010 Safety Healthy Retiree Male Table (post-retirement) and the PUB-2010 Safety Healthy Retiree Female Table (post-retirement) and the PUB-2010 Safety Healthy Retiree Female Table (post-retirement). These tables use ages set forward one year and mortality improvements to all future years after 2010 using scale MP-2018. These are the same rates used for Special Risk Class members in the July 1, 2019 Actuarial Valuation of the Florida Retirement</li> </ul>
	System (FRS).
Other Information: Notes	See Discussion of Valuation Results in the October 1, 2019 Actuarial
10163	Valuation Report.



# SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

	Actuarially		Contribution		Actual Contribution
FY Ending	Determined	Actual	Deficiency	Covered	as a % of
September 30,	Contribution	Contribution	(Excess)	Payroll	Covered Payroll
2014	\$ 4,196,181	\$ 4,196,181	\$-	\$11,279,986	37.20%
2015	5,598,011	5,598,011	-	12,192,229	45.91%
2016	5,993,388	5,993,388	-	11,618,974	51.58%
2017	5,028,652	5,028,652	-	11,834,735	42.49%
2018	5,330,992	5,330,992	-	11,989,341	44.46%
2019	5,731,935	5,731,935	-	11,992,650	47.80%
2020	4,126,483	4,126,483	-	12,384,844	33.32%



# NOTES TO SCHEDULE OF CONTRIBUTIONS GASB Statement No. 67

Valuation Date: Notes	October 1, 2018 Actuarially determined contributions are calculated as of October 1, which is two years prior to the end of the fiscal year in which contributions are reported.
Methods and Assumptions Used	to Determine Contribution Rates:
Actuarial Cost Method	Entry Age Normal
Amortization Method	General: Level Dollar, Closed
	Police and Fire: Level Dollar, Closed
Remaining Amortization Period	15 years
Asset Valuation Method	Recognition of 20% of difference between market value of assets and expected actuarial value of assets
Inflation	2.50%
Salary Increases	3.00% to 6.00% depending on service
Investment Rate of Return	6.85%
Retirement Age	Experience-based table of rates
Mortality	The mortality table for General Employees is the RP-2000 Combined Healthy Participant Mortality Table (for pre-retirement mortality) and the RP-2000 Mortality Table for Annuitants (for post-retirement mortality) with future improvements in mortality projected to all future years using Scale BB. For females, the base mortality rates include a 100% white collar adjustment. For males, the base mortality rates include a 50% blue collar adjustment and a 50% white collar adjustment. These are the same rates used for Regular Class members of the Florida Retirement System (FRS) in their actuarial valuation as of July 1, 2018, as mandated by Chapter 112.63, Florida Statutes.
Other Information:	The mortality table for Police and Fire members is the RP-2000 Combined Healthy Participant Mortality Table (for pre-retirement mortality) and the RP-2000 Mortality Table for Annuitants (for post- retirement mortality) with future improvements in mortality projected to all future years using Scale BB. For females, the base mortality rates include a 100% white collar adjustment. For males, the base mortality rates include a 90% blue collar adjustment and a 10% white collar adjustment. These are the same rates used for Special Risk Class members of the Florida Retirement System (FRS) in their actuarial valuation as of July 1, 2018, as mandated by Chapter 112.63, Florida Statutes.
	See Discussion of Valuation Results in the October 1, 2018 Actuarial
Notes	Valuation Report



# SINGLE DISCOUNT RATE GASB Statement No. 67

A single discount rate of 6.75% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 6.75%. The projection of cash flows used to determine this single discount rate assumed that plan member contributions will be made at the current contribution rate and that employer contributions will be made at rates equal to the difference between the total actuarially determined contribution rates and the member rate. Based on these 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 (6.75%) was applied to all periods of projected benefit payments to determine the total pension liability.

Regarding the sensitivity of the net pension liability to changes in the single discount rate, the following presents the plan's net pension liability, calculated using a single discount rate of 6.75%, as well as what the plan's net pension liability would be if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher:

	Current Single Discount							
1% Decrease	<b>Rate Assumption</b>	1% Increase						
5.75%	6.75%	7.75%						
\$22,263,474	\$4,466,738	(\$10,337,293)						

#### Sensitivity of the Net Pension Liability to the Single Discount Rate Assumption



**SECTION E** 

**MISCELLANEOUS INFORMATION** 

	RECONCILIATION OF MEMBERSHIP DATA											
	From 10/1/2019 to 10/1/2020											
		General	Police	Fire	Total							
Α.	Active Members											
1.	Number Included in Last Valuation	188	1	0	189							
2.	New Employees	0	0	0	0							
3.	Non-Vested Employment Terminations	0	0	0	0							
4.	Vested Employment Terminations	(3)	0	0	(3)							
5.	Service & Early Retirements	(1)	0	0	(1)							
6.	Disability Retirements	0	0	0	0							
7.	Deaths	0	0	0	0							
8.	Transfers	0	0	0	0							
9.	Other - Inactive	0	0	0	0							
10.	Number Included in This Valuation	184	1	0	185							
В.	B. Terminated Vested Members											
1.	Number Included in Last Valuation	4	0	0	4							
2.	Additions from Active Members	3	0	0	3							
3.	Lump Sum Payments/Refund of Contributions	(4)	0	0	(4)							
4.	Payments Commenced	0	0	0	0							
5.	Deaths	0	0	0	0							
6.	Other	0	0	0	0							
7.	Number Included in This Valuation	3	0	0	3							
C.	Service Retirees, Disability Retirees and Beneficia	aries	1	1	1							
1.	Number Included in Last Valuation	205	18	13	236							
2.	Additions from Active Members	1	0	0	1							
3.	Additions from Terminated Vested Members	0	0	0	0							
4.	Deaths Resulting in No Further Payments	(5)	(2)	(1)	(8)							
5.	Deaths Resulting in New Survivor Benefits	0	0	0	0							
6.	End of Certain Period - No Further Payments	0	0	0	0							
7.	Lump Sum Payments	0	0	0	0							
	Number Included in This Valuation	201	16	12	229							



					Years	s of Service t	o Valuation	Date					
Age Group	0-1	1-2	2-3	3-4	4-5	5-9	10-14	15-19	20-24	25-29	30-34	35 & Up	Totals
20-24 NO.	0	0	0	0	0	0	0	0	0	0	0	0	(
TOT PAY	0	0	0	0	0	0	0	0	0	0	0	0	(
AVG PAY	0	0	0	0	0	0	0	0	0	0	0	0	(
	0	Ũ	Ū	Ū	0	0	Ū	Ũ	0	· · ·	0	· · ·	·
25-29 NO.	0	0	0	0	1	5	0	0	0	0	0	0	6
ΤΟΤ ΡΑΥ	0	0	0	0	84,791	242,039	0	0	0	0	0	0	326,830
AVG PAY	0	0	0	0	84,791	48,408	0	0	0	0	0	0	54,472
30-34 NO.	0	0	0	0	3	11	0	0	0	0	0	0	14
TOT PAY	0	0	0	0	125,767	597,792	0	0	0	0	0	0	723,559
AVG PAY	0	0	0	0	41,922	54,345	0	0	0	0	0	0	51,683
35-39 NO.	0	0	0	0	5	12	0	3	0	0	0	0	20
ΤΟΤ ΡΑΥ	0	0	0	0	222,818	654,774	0	184,041	0	0	0	0	1,061,633
AVG PAY	0	0	0	0	44,564	54,564	0	61,347	0	0	0	0	53,082
40-44 NO.	0	0	0	0	1	6	5	6	6	0	0	0	24
ΤΟΤ ΡΑΥ	0	0	0	0	32,003	492,891	582,133	350,470	501,290	0	0	0	1,958,787
AVG PAY	0	0	0	0	32,003	82,148	116,427	58,412	83,548	0	0	0	81,610
45-49 NO.	0	0	0	0	1	6	2	8	5	4	0	0	26
ΤΟΤ ΡΑΥ	0	0	0	0	147,213	323,137	112,953	609,325	314,777	299,579	0	0	1,806,984
AVG PAY	0	0	0	0	147,213	53,856	56,476	76,166	62,955	74,895	0	0	69,499
50-54 NO.	0	0	0	0	4	2	7	7	8	4	2	0	34
TOT PAY	0	0	0	0	166,565	114,358	424,553	437,706	465,299	284,292	139,226	0	2,031,999
AVG PAY	0	0	0	0	41,641	57,179	60,650	62,529	58,162	71,073	69,613	0	59,765
55-59 NO.	0	0	0	0	1	5	3	6	6	3	4	1	29
ΤΟΤ ΡΑΥ	0	0	0	0	100,896	313,701	188,569	298,756	447,689	170,645	307,795	145,137	1,973,188
AVG PAY	0	0	0	0	100,896	62,740	62,856	49,793	74,615	56,882	76,949	145,137	68,041
60-64 NO.	0	0	0	0	0	7	3	0	0	3	3	1	17
ΤΟΤ ΡΑΥ	0	0	0	0	0	551,962	146,375	0	0	198,737	200,180	42,652	1,139,906
AVG PAY	0	0	0	0	0	78,852	48,792	0	0	66,246	66,727	42,652	67,053
65 & Up NO.	0	0	0	0	0	3	3	3	2	3	0	1	15
ΤΟΤ ΡΑΥ	0	0	0	0	0	221,021	146,778	239,188	105,500	181,288	0	120,809	1,014,584
AVG PAY	0	0	0	0	0	73,674	48,926	79,729	52,750	60,429	0	120,809	67,639
TOT NO.	0	0	0	0	16	57	23	33	27	17	9	3	185
TOT AMT	0	0	0	0	880,053	3,511,675	1,601,361	2,119,486		1,134,541		308,598	12,037,470
AVG AMT	0	0	0	0	55,003	61,608	69,624	64,227	67,946	66,738	71,911	102,866	65,067

# ACTIVE PARTICIPANT SCATTER – GENERAL EMPLOYEES AND POLICE OFFICERS



	Term	inated					Deceas	ed with
	Ve	sted	Di	sabled	Re	etired	Bene	ficiary
		Total		Total		Total		Total
Age Group	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits
Under 20	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-
25-29	-	-	-	-	-	-	-	-
30-34	-	-	-	-	-	-	-	-
35-39	1	2,460	-	-	-	-	-	-
40-44	1	13,008	-	-	1	7,390	-	-
45-49	-	-	1	40,701	3	47,781	-	-
50-54	-	-	-	-	12	327,321	-	-
55-59	1	47,208	-	-	18	808,296	-	-
60-64	-	-	-	-	38	1,622,991	-	-
65-69	-	-	-	-	36	1,381,848	-	-
70-74	-	-	-	-	34	1,089,060	-	-
75-79	-	-	-	-	22	637,128	-	-
80-84			1	40,475	13	247,057	2	10,090
85-89		-		+0,+/5	8	195,061	3	25,067
90-94		_		-	3	41,977		23,007
	-	-	-	-			-	-
95-99	-	-	-	-	4	63,607	-	-
100 & Over	-	-	-	-	1	7,946	1	7,563
Total	3	62,676	2	81,176	193	6,477,463	6	42,720
Average Age		45		64		69		89

#### **INACTIVE PARTICIPANT SCATTER – GENERAL EMPLOYEES**



	Term	inated					Deceas	ed with
	Ve	sted	Dis	sabled	Re	etired	Bene	ficiary
		Total		Total		Total		Total
Age Group	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits
Under 20	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-
25-29	-	-	-	-	-	-	-	-
30-34	-	-	-	-	-	-	-	-
35-39	-	-	-	-	-	-	-	-
40-44	-	-	-	-	-	-	-	-
45-49	-	-	-	-	-	-	-	-
50-54	-	-	-	-	-	-	-	-
55-59	-	-	-	-	-	-	-	-
60-64	-	-	-	-	-	-	-	-
65-69	-	-	-	-	2	182,399	-	-
70-74	-	-	-	-	3	108,813	-	-
75-79	-	-	-	-	3	41,799	1	5,529
80-84	-	-	-	-	3	29,387	-	-
85-89	-	-	-	-	-	-	-	-
90-94	-	-	-	-	2	43,913	1	5,190
95-99	-	-	-	-	1	9,497	-	-
100 & Over	-	-	-	-	-	, -	-	-
Total	-	-	-	-	14	415,808	2	10,719
Average Age		N/A		N/A		80		85

## **INACTIVE PARTICIPANT SCATTER – POLICE OFFICERS**



	Term	inated					Deceas	ed with
	Ve	sted	Di	sabled	Re	etired	Bene	ficiary
		Total		Total		Total		Total
Age Group	Number	Benefits	Number	Benefits	Number	Benefits	Number	Benefits
Under 20	-	-	-	-	-	-	-	-
20-24	-	-	-	-	-	-	-	-
25-29	-	-	-	-	-	-	-	-
30-34	-	-	-	-	-	-	-	-
35-39	-	-	-	-	-	-	-	-
40-44	-	-	-	-	-	-	-	-
45-49	-	-	-	-	-	-	-	-
50-54	-	-	-	-	-	-	-	-
55-59	-	-	-	-	-	-	-	-
60-64	-	-	-	-	-	-	-	-
65-69	-	-	-	-	-	-	-	-
70-74	-	-	-	-	-	-	-	-
75-79	-	-	-	-	2	89,580	-	-
80-84	-	-	-	-	4	121,647	2	48,042
85-89	-	-	-	-	2	82,508	-	-
90-94	-	-	-	-	2	34,997	-	-
95-99	-	-	-	-	-	-	-	-
100 & Over	-	-	-	-	-	-	-	-
Total	-	-	-	-	10	328,732	2	48,042
Average Age		N/A		N/A		85		82

# **INACTIVE PARTICIPANT SCATTER – FIREFIGHTERS**



**SECTION F** 

**SUMMARY OF PLAN PROVISIONS** 

#### SUMMARY OF PLAN PROVISIONS

# A. Ordinances

The Plan was established under the Code of Ordinances for the City of North Miami, Florida, Chapter 15, Article III, and was most recently amended under Ordinance No. 1397 passed and adopted on March 8, 2016. The Plan is also governed by certain provisions of Chapters 175 and 185, <u>Florida Statutes</u>, Part VII, Chapter 112, <u>Florida Statutes</u> (F.S.) and the Internal Revenue Code.

#### **B. Effective Date**

January 1, 1968

## C. Plan Year

October 1 through September 30

## D. Type of Plan

Qualified, governmental defined benefit retirement plan; for GASB purposes it is a single employer plan.

## E. Eligibility Requirements

All full-time general employees hired prior to June 1, 2016 are eligible. General employees hired on or after June 1, 2016 will participate in the Florida Retirement System.

#### F. Credited Service

Service is measured as the total number of calendar years, or portions thereof, during which the member has served as an employee of the City and has made the required contributions to the Plan. No service is credited for any periods of employment for which the member received a refund of employee contributions.

#### G. Compensation

Total compensation including member contributions which are "picked up" by the City, but excluding overtime, bonuses and other certain payments.

#### H. Average Final Compensation (AFC)

For members who reached their normal retirement date on or before September 29, 2016: AFC is the average of Compensation over the highest 2 years out of the last 10 years of Credited Service prior to termination or retirement. AFC excludes lump sum payment of unused leave.

#### For all other members:

Effective September 30, 2016, AFC is the average of Compensation over the highest 3 years out of the last 10 years of Credited Service prior to termination or retirement. AFC excludes lump sum payment of unused leave. Effective September 30, 2017, the "highest 3 years" will be replaced by the "highest 4 years" and beginning September 30, 2018, "the highest 4 years" will be replaced by "the highest 5 years".



## I. Normal Retirement

		City of North Miami Clair T. Singerman Employees Retirement System 60
	COLA:	See Item V. Cost of Living Increases
	Normal Form of Benefit:	Single Life Annuity; other options are also available.
	Benefit:	The Normal Retirement Benefit is reduced by 4.0% for each year that the Early Retirement date precedes the Normal Retirement date.
		Police officers and firefighters may elect to retire earlier than the Normal Retirement eligibility upon attainment of 14 years of Credited Service.
		<ul><li>(1) age 55 with 10 years of Credited Service, or</li><li>(2) 14 years of Credited Service regardless of age.</li></ul>
	Eligibility:	General employees may elect to retire earlier than the Normal Retirement Eligibility upon attainment of:
J.	Early Retireme	ent
	COLA:	See Item V. Cost of Living Increases
	Normal Form of Benefit:	Single Life Annuity; other options are also available.
		2.0% for members with less than 10 years of Credited Service on November 10, 2015.
		2.5% for members with 10 or more years, but less than 15 years, of Credited Service who are not yet eligible for Normal Retirement as of November 10, 2015.
		3.0% for members who have reached their Normal Retirement date on or before November 10, 2015 and for members with 15 or more years of Credited Service as of that date.
		Accrual rates for Credited Service earned on or after November 10, 2015:
	Benefit:	2.5% of AFC multiplied by Credited Service up to July 1, 1969, plus 3.0% of AFC multiplied by Credited Service after July 1, 1969 through November 9, 2015.
		Police officers and firefighters may retire on the first day of the month coincident with or next following age 50 and 20 years of Credited Service.
		<ul><li>(1) age 62 and 10 years of Credited Service, or</li><li>(2) age 55 and 20 years of Credited Service.</li></ul>
	Eligibility:	General employees may retire on the first day of the month coincident with or next following the earlier of:



#### K. Delayed Retirement

Same as Normal Retirement taking into account compensation earned and service credited until the date of actual retirement.

#### L. Service Connected Disability

- Eligibility: Any member who incurs a mental or physical condition resulting from injury, disease, or mental disorder, which renders the member incapable of performing work for the City at a rate of 90% of the member's regular rate of Compensation is immediately eligible for a disability benefit.
- Benefit: 75% of member's Compensation on the date of disability. The benefit will be reduced by amounts paid from other sources to the extent that, when combined with this benefit, they exceed 100% of the rate of pay in effect at the time of the disability.

#### Normal Form

of Benefit: Payable for life, or until recovery from disability.

COLA: None

#### M. Non-Service Connected Disability

- Eligibility: Any member who incurs a mental or physical condition resulting from injury, disease, or mental disorder, which renders the member incapable of performing work for the City at a rate of 75% of the member's regular rate of Compensation is immediately eligible for a disability benefit.
- Benefit: The member's vested accrued benefit payable at the Normal Retirement date taking into account compensation earned and service credited on the date of disability with a maximum equal to 50% of Compensation. The benefit will be reduced by amounts paid from other sources to the extent that, when combined with this benefit, they exceed 100% of the rate of pay in effect at the time of the disability.

#### Normal Form

of Benefit: Payable for life, or until recovery from disability.

COLA: None

#### N. Death in the Line of Duty

- Eligibility: Any member who dies while performing, directly or indirectly, services for the City is eligible for survivor benefits regardless of Credited Service.
- Benefit: 50% of the member's monthly Compensation at the time of death shall be paid to the member's spouse. In addition, 10% of the member's final Compensation shall be paid for each child under age 19. In no event shall the total benefit exceed 100% of the member's final Compensation; or 50% if there is no surviving spouse.



Normal Form

of Benefit: Spouse benefits payable until the earlier of death or remarriage. Children's benefits are payable until age 19.

COLA: None

#### **O.** Other Pre-Retirement Death

Eligibility: Any vested member who dies while employed by the City is eligible for survivor benefits.

Benefit: For members who were eligible for Early or Normal Retirement, the member's Retirement Benefit shall be payable to the member's beneficiary.

For members who were not eligible for Early or Normal Retirement, an amount equal to the member's vested accrued benefit and accumulated contributions with interest shall be payable to the member's beneficiary.

#### Normal Form

of Benefit: For members who were eligible for Early or Normal Retirement, the Retirement Benefit shall be paid as though the member had elected a 10 Year Certain and Life annuity and retired immediately preceding death.

For members who were not eligible for Early or Normal Retirement, the benefit shall be paid in a lump sum.

COLA: None

The designated beneficiary of a plan member who was not vested will receive a refund of the member's accumulated contributions with interest.

#### P. Post Retirement Death

Benefit determined by the form of benefit elected upon retirement.

#### Q. Optional Forms

In lieu of electing the Normal Form of benefit, the optional forms of benefits available to all retirees are the Straight Life Annuity option, the 50%, 75%, and 100% Joint and Survivor options, or the 5 and 10 Years Certain and Life options. A Social Security option is also available for members retiring prior to the time they are eligible for Social Security retirement benefits if they are not retiring under Disability Retirement.

Alternatively, members can elect a partial lump sum with the remaining value of the benefit paid as a monthly annuity. A total lump sum distribution is also available for those who became members of the Plan prior to October 1, 2004.



#### **R. Vested Termination**

Eligibility: A member has earned a non-forfeitable right to Plan benefits after the completion of 5 years of Credited Service (see vesting table below).

Credited	Vested
Service	Percent
Less than 5	0%
5	25
6	40
7	55
8	70
9	85
10 or more	100

Benefit: Any member who is not eligible for any other benefits provided under the Plan will receive the vested portion of their accrued Normal Retirement Benefit as of the date of termination. Benefit begins at the member's Early or Normal Retirement date and will be reduced for Early Retirement if applicable.

## Normal Form

of Benefit:	Single Life Annuity; other options are also available.
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COLA: See Item V. Cost of Living Increases

Members terminating employment with less than 5 years of Credited Service will receive a refund of their own accumulated contributions with interest.

#### S. Refunds

- Eligibility: All members terminating employment with less than 5 years of Credited Service are eligible. Optionally, vested members (those with 5 or more years of Credited Service) may elect a refund in lieu of the vested benefits otherwise due.
- Benefit: A refund of the member's contributions with interest.

# T. Member Contributions

7.0% of Compensation for members who have reached their Normal Retirement date prior to November 10, 2015 and for members who are not yet eligible for Normal Retirement as of November 10, 2015 with more than 10, but less than 15, years of Credited Service.

8.0% of Compensation for members with 15 or more years of Credited Service

6.0% of Compensation for members with less than 10 years of Credited Service and who had not reached their Normal Retirement date on or before November 10, 2015.



## **U. Employer Contributions**

Any additional amount determined by the actuary needed to fund the plan properly according to State laws.

## V. Cost of Living Increases

Members who retire after October 1, 2004 (not due to disability) and who have reached their Normal Retirement date on or before November 10, 2015, electing an annuity form of payment, receive an annual cost of living adjustment each April 1st. These retirees may choose a 1.92% COLA with a one-year delay, a 2.50% COLA with a three-year delay, or a 3.00% COLA with a five-year delay.

Members with 15 or more years of Credited Service who had not reached their Normal Retirement date on or before November 10, 2015, electing an annuity form of payment, will receive a 2.50% annual cost of living adjustment each April 1st following the 5<sup>th</sup> year of retirement.

Members with 10 or more years, but less than 15 years, of Credited Service who had not reached their Normal Retirement date on or before November 10, 2015, electing an annuity form of payment, will receive a 2.00% annual cost of living adjustment each April 1st following the 5<sup>th</sup> year of retirement.

Members with less than 10 years of Credited Service as of November 10, 2015 who elect an annuity form of payment will receive a 1.50% annual cost of living adjustment each April 1st following the 5<sup>th</sup> year of retirement.

## W. 13<sup>th</sup> Check

Not Applicable

# X. Deferred Retirement Option Plan (DROP)

Not Applicable

# Y. Other Ancillary Benefits

There are no ancillary benefits-retirement type benefits not required by statutes but which might be deemed a Clair T. Singerman Employees' Retirement System liability if continued beyond the availability of funding by the current funding source.

#### Z. Changes from Previous Valuation

None

