CITY OF PENSACOLA POLICE OFFICERS' RETIREMENT FUND

ACTUARIAL VALUATION AND REPORT AS OF OCTOBER 1, 2017

CONTRIBUTIONS APPLICABLE TO THE PLAN/ FISCAL YEAR ENDED SEPTEMBER 30, 2019



March 21, 2018

Board of Trustees City of Pensacola Police Officers' Retirement Fund 222 West Main Street Pensacola, FL 32502

Re: City of Pensacola

Police Officers' Retirement Fund

Dear Board:

We are pleased to present to the Board this report of the annual actuarial valuation of the City of Pensacola Police Officers' Retirement Fund. Included are the related results for GASB Statements No. 67 and No. 68. The funding valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits and to develop the appropriate funding requirements for the applicable plan year. The calculation of the liability for GASB results was performed for the purpose of satisfying the requirements of GASB Statements No. 67 and No. 68. Please note that these valuations may not be applicable for any other purposes.

The valuations have been conducted in accordance with generally accepted actuarial principles and practices, including the applicable Actuarial Standards of Practice as issued by the Actuarial Standards Board, and reflect laws and regulations issued to date pursuant to the provisions of Chapters 112 and 185, Florida Statutes, as well as applicable federal laws and regulations. In our opinion, the assumptions used in the valuations, as adopted by the Board of Trustees, represent reasonable expectations of anticipated plan experience. Future actuarial measurements may differ significantly from the current measurements presented in this report for a variety of reasons including: changes in applicable laws, changes in plan provisions, changes in assumptions, or plan experience differing from expectations.

In conducting the valuations, we have relied on personnel, plan design, and asset information supplied by the Board of Trustees, financial reports prepared by the custodian bank, and the actuarial assumptions and methods described in the Actuarial Assumptions section of this report. While we cannot verify the accuracy of all this information, the supplied information was reviewed for consistency and reasonableness. As a result of this review, we have no reason to doubt the substantial accuracy of the information and believe that it has produced appropriate results. This information, along with any adjustments or modifications, is summarized in various sections of this report.

The total pension liability, net pension liability, and certain sensitivity information shown in this report

are based on an actuarial valuation performed as of October 1, 2017. It is our opinion that the

assumptions used for this purpose are internally consistent, reasonable, and comply with the requirements

under GASB No. 67 and No. 68.

The undersigned is familiar with the immediate and long-term aspects of pension valuations, and meets

the Qualification Standards of the American Academy of Actuaries necessary to render the actuarial

opinions contained herein. All of the sections of this report are considered an integral part of the actuarial

opinions.

To our knowledge, no associate of Foster & Foster, Inc. working on valuations of the program has any

direct financial interest or indirect material interest in the City of Pensacola, nor does anyone at Foster &

Foster, Inc. act as a member of the Board of Trustees of City of Pensacola Police Officers' Retirement

Fund. Thus, there is no relationship existing that might affect our capacity to prepare and certify this

actuarial report.

If there are any questions, concerns, or comments about any of the items contained in this report, please

contact me at 239-433-5500.

Respectfully submitted,

Foster & Foster, Inc.

By:

Drew D. Ballard, EA, MAAA

Enrolled Actuary #17-8193

DDB/lke

Enclosures

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SUMMARY OF REPORT

The regular annual actuarial valuation of the City of Pensacola Police Officers' Retirement Fund, performed as of October 1, 2017, has been completed, and the results are presented in this Report. The results of this valuation are applicable to the plan/fiscal year ended September 30, 2019.

The contribution requirements developed in this valuation, compared with amounts developed in the October 1, 2015 Actuarial Valuation Report (as performed by Pension Board Consultants, Inc.), are as follows:

Valuation Date Assumed Beginning of Year Contribution Date Applicable Plan/Fiscal Year End	10/1/2017 10/1/2018 9/30/2019	10/1/2015 10/1/2016 9/30/2017
Total Required Contribution	5,202,559	5,466,170
Member Contributions (Est.)	218,946	230,041
City and State Required Contribution	4,983,613	5,236,129
State Contribution ¹	542,277	542,277
Balance from City ²	4,441,336	4,693,852

¹ Represents amount received in Calendar 2017.

As can be seen, the Required Contribution from City and State sources has decreased since the last actuarial valuation. The decrease was attributable to favorable experience realized by the plan, on the basis of the actuarial assumptions. The primary sources of favorable experience during the past two years are as follows: a single 1.50% cost-of-living adjustment compared to the assumed two annual 2.50% adjustments, and 9.18% and 7.25% investment returns (Actuarial Asset basis) for the 2017 and 2016 plan years, respectively, both exceeding the 7.125% assumption. This favorable experience was offset in part by lower than anticipated inactive mortality and unfavorable retirement experience.

² The required contribution from the combination of City and State sources for the years ending September 30, 2017 and September 30, 2018 is \$5,236,129. The City and State contribution for the fiscal year ending September 30, 2019 is \$4,983,613. These amounts are based on the City's policy of contributing on October 1st. Additionally, the City has access to the September 30, 2017 Contribution Surplus Account Balance of \$775,006.58 to help offset a portion of the above stated requirements for fiscal 2018. Please see pages 15 and 16 of this report for detail of the account balance reconciliation.

The balance of this Report presents additional details of the actuarial valuation and the general operation of the Fund. The undersigned would be pleased to meet with the Board of Trustees in order to discuss the Report and any pending questions concerning its contents.

Respectfully submitted,

FOSTER & FOSTER, INC.

Jason L. Franken, FSA, EA, MAAA

Drew D. Ballard, EA, MAAA

CHANGES SINCE PRIOR VALUATION

Plan Changes

There have been no plan changes since the prior report.

Actuarial Assumption/Method Changes

Pursuant to the provisions of Chapter 2015-157, Laws of Florida, the mortality assumption reflects a change from the rates utilized by the Florida Retirement System in the July 1, 2015 valuation to those utilized in the July 1, 2016 valuation for special risk participants.

COMPARATIVE SUMMARY OF PRINCIPAL VALUATION RESULTS

	10/1/2017	10/1/2015
A. Participant Data		
Actives	73	88
Service Retirees	116	91
DROP Retirees	9	21
Beneficiaries	28	31
Disability Retirees	15	16
Terminated Vested	<u>14</u>	<u>13</u>
Total	255	260
Covered Non-DROP Payroll	\$4,048,557	\$4,423,864
Annual Rate of Payments to:		
Service Retirees	5,200,542	3,882,333
DROP Retirees	479,952	1,248,408
Beneficiaries	613,575	639,406
Disability Retirees	261,503	262,192
Terminated Vested	130,199	120,666
B. Assets		
Actuarial Value (AVA) 1	90,550,803	83,576,423
Market Value (MVA) ¹	93,617,461	80,130,799
C. Liabilities		
Present Value of Benefits		
Actives		
Retirement Benefits	27,377,156	28,247,086
Disability Benefits	2,780,241	4,041,934
Death Benefits	517,855	510,472
Vested Benefits	705,305	838,197
Refund of Contributions	30,608	50,954
Service Retirees + Beneficiaries	88,708,671	69,448,620
DROP Retirees ¹	9,267,968	26,622,578
Disability Retirees	3,617,795	3,794,232
Terminated Vested	922,287	894,025
Excess State Monies Reserve	<u>0</u>	<u>396,897</u>
Total	133,927,886	134,844,995

C. Liabilities - (Continued)	10/1/2017	10/1/2015
Present Value of Future Salaries	29,191,213	34,815,100
Present Value of Future		
Member Contributions	1,517,943	1,810,385
Normal Cost (Retirement)	609,385	N/A
Normal Cost (Disability)	120,640	N/A
Normal Cost (Death)	20,592	N/A
Normal Cost (Vesting)	37,167	N/A
Normal Cost (Refunds)	<u>5,342</u>	N/A
Total Normal Cost	793,126	912,596
Present Value of Future		
Normal Costs	5,661,424	7,075,876
Accrued Liability (Retirement)	22,942,111	23,281,435
Accrued Liability (Disability)	1,906,467	2,739,629
Accrued Liability (Death)	369,973	353,564
Accrued Liability (Vesting)	518,108	455,673
Accrued Liability (Refunds)	13,082	(217,534)
Accrued Liability (Inactives) ¹	102,516,721	100,759,455
Excess State Monies Reserve	<u>0</u>	396,897
Total Actuarial Accrued Liability (EAN AL)	128,266,462	127,769,119
Funded Ratio (AVA / EAN AL)	70.6%	65.4%
Unfunded Actuarial Accrued		
Liability (UAAL)	37,715,659	44,192,696
Contribution Surplus Account	775,007	806,396
Total Amortization Charge	38,490,666	44,999,092
Amortization Amount	4,139,335	4,483,574

D. Actuarial Present Value of		
Accrued Benefits	<u>10/1/2017</u>	<u>10/1/2015</u>
Vested Accrued Benefits		
Inactives ¹	102,516,721	100,759,455
Actives	13,567,101	16,482,210
Member Contributions	1,296,565	1,103,674
Total	117,380,387	118,345,339
Non-vested Accrued Benefits	<u>3,412,082</u>	1,074,747
Total Present Value		
Accrued Benefits (PVAB)	120,792,469	119,420,086
Funded Ratio (MVA / PVAB)	77.5%	67.1%
Increase (Decrease) in Present Value of		
Accrued Benefits Attributable to:		
Plan Amendments	0	
Assumption Changes	0	
New Accrued Benefits	1,169,997	
Benefits Paid	(16,294,701)	
Interest	16,497,087	
Other	<u>0</u>	
Total	1,372,383	

Valuation Date	10/1/2017	10/1/2015
Applicable to Fiscal Year Ending	9/30/2019	9/30/2017
E. Pension Cost		
Normal Cost ²	\$824,851	\$912,596
Administrative Expenses ²	72,800	70,000
Payment Required to Amortize Unfunded Actuarial Accrued Liability over 14 years		
(as of $10/1/2017$) ²	4,304,908	4,483,574
Total Required Contribution	5,202,559	5,466,170
Expected Member Contributions ²	218,946	230,041
Expected City and State Contribution	4,983,613	5,236,129
F. Past Contributions		
Plan Years Ending:	9/30/2017	9/29/2017
City and State Requirement	5,236,129	4,412,902
Actual Contributions Made:		
Members (excluding buyback)	218,457	227,357
City	4,331,190	3,830,736
State	542,277	533,483
Total	5,091,924	4,591,576

 $^{^{1}}$ The asset values and liabilities include accumulated DROP Plan Balances as of 9/30/2017 and 9/30/2015.

² Contributions developed as of 10/1/2017 displayed above have been adjusted to account for assumed salary increase and interest components.

H. Schedule Illustrating the Amortization of the Total Unfunded Actuarial Accrued Liability as of:

	Projected Outstanding
<u>Year</u>	Amortization Bases
2017	38,490,666
2018	36,798,863
2019	34,986,519
2022	28,737,254
2025	21,054,774
2028	11,610,383
2031	0

I. (i) 3 Year Comparison of Actual and Assumed Salary Increases

	<u>Actual</u>	Assumed
9/30/2017	4.39%	4.00%
9/30/2016	3.03%	4.00%
9/30/2015	4.85%	4.00%
	9/30/2016	9/30/2017 4.39% 9/30/2016 3.03%

(ii) 3 Year Comparison of Investment Return on Actuarial Value

		<u>Actual</u>	Assumed
Year Ended	9/30/2017	9.18%	7.125%
Year Ended	9/30/2016	7.25%	7.125%
Year Ended	9/30/2015	6.23%	7.250%

(iii) Average Annual Payroll Growth

(a) Payroll as of:	10/1/2017	\$4,130,310
	10/1/2006	7,152,673
(b) Total Increase		-42.26%
(c) Number of Years		11.00
(d) Average Annual Rate		-4.87%

STATEMENT BY ENROLLED ACTUARY

This actuarial valuation was prepared and completed by me or under my direct supervision, and I acknowledge responsibility for the results. To the best of my knowledge, the results are complete and accurate, and in my opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the plan and/or paid from the plan's assets for which liabilities or current costs have not been established or otherwise 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.

> Drew D. Batlard, EA, MAAA Enrolled Actuary #17-8193

Please let us know when the report is approved by the Board and unless otherwise directed we will provide copies of the report to the following offices to comply with Chapter 112 Florida Statutes:

> Mr. Keith Brinkman Bureau of Local **Retirement Systems** Post Office Box 9000 Tallahassee, FL 32315-9000

> Ms. Sarah Carr Municipal Police and Fire Pension Trust Funds Division of Retirement Post Office Box 3010 Tallahassee, FL 32315-3010

PROJECTED UNFUNDED ACTUARIAL ACCRUED LIABILITY

			Expected	
			Amortization	Expected UAAL
Plan Year	Fiscal Year	Expected UAAL	Payment UAAL	on 9/30
9/30/2017	9/30/2019	38,490,666	4,139,335	36,798,863
9/30/2018	9/30/2020	36,798,863	4,139,335	34,986,519
9/30/2019	9/30/2021	34,986,519	4,139,335	33,045,046
9/30/2020	9/30/2022	33,045,046	4,139,335	30,965,243
9/30/2021	9/30/2023	30,965,243	4,139,335	28,737,254
9/30/2022	9/30/2024	28,737,254	4,139,335	26,350,521
9/30/2023	9/30/2025	26,350,521	4,139,335	23,793,733
9/30/2024	9/30/2026	23,793,733	4,139,335	21,054,774
9/30/2025	9/30/2027	21,054,774	4,139,335	18,120,664
9/30/2026	9/30/2028	18,120,664	4,139,335	14,977,499
9/30/2027	9/30/2029	14,977,499	4,139,335	11,610,383
9/30/2028	9/30/2030	11,610,383	4,139,335	8,003,360
9/30/2029	9/30/2031	8,003,360	4,139,335	4,139,337
9/30/2030	9/30/2032	4,139,337	4,139,337	0

CONTRIBUTION SURPLUS ACCOUNT RECONCILIATION October 1, 2015 through September 30, 2016

(1)	9/30/2015 Contribution Surplus Account Balance	806,396.00
(2)	Minimum Required City and State Contribution for Plan Year Beginning 10/1/2015	4,412,902.00
(3)	City Contributions Deposited on or around 10/1/2015	3,830,736.00
(4)	State Contributions Deposited on or around 9/30/2016	533,483.40
(5)	Shortfall Contribution Applied from Excess State Monies Reserve {[(2) - (3)] x 1.07125} - (4)	90,161.93
(6)	Actual Non-Investment Expenses for Plan Year Beginning 10/1/2015	58,852.90
(7)	Expected Non-Investment Expenses for Plan Year Beginning 10/1/2015	70,000.00
(8)	Interest at 7.125%	58,249.95
(9)	9/30/2016 Contribution Surplus Account Balance (1) - [(6) - (7)] + (8)	875,793.05

CONTRIBUTION SURPLUS ACCOUNT RECONCILIATION October 1, 2016 through September 30, 2017

(1)	9/30/2016 Contribution Surplus Account Balance	875,793.05
(2)	Minimum Required City and State Contribution for Plan Year Beginning 10/1/2016	5,236,129.00
(3)	City Contributions Deposited on or around 10/1/2016	4,331,190.07
(4)	State Contributions Deposited on 8/7/2017	542,276.76
(5)	Shortfall Contribution Applied from Excess State Monies Reserve	306,733.90
(6)	Shorfall Contribution for Plan Year Beginning $10/1/2016$ (with interest) $\{[(2) - (3)] \times 1.07125\} - [(4) \times (1 + (0.07125 * (55/365)))] - (5)$	114,583.12
(7)	Actual Non-Investment Expenses for Plan Year Beginning 10/1/2016	115,370.93
(8)	Expected Non-Investment Expenses for Plan Year Beginning 10/1/2016	70,000.00
(9)	Interest at 7.125%	59,167.58
(10)	9/30/2016 Contribution Surplus Account Balance (1) - (6) - [(7) - (8)] + (9)	775,006.58

ACTUARIAL ASSUMPTIONS AND METHODS

Mortality Rates

Healthy Active Lives:

Female: RP2000 Generational, 100% Combined Healthy (previously Annuitant) White Collar, Scale BB **Male:** RP2000 Generational, 10% Combined Healthy (previously Annuitant) White Collar / 90% Combined Healthy (previously Annuitant) Blue Collar, Scale BB

Healthy Inactive Lives:

Female: RP2000 Generational, 100% Annuitant White

Collar, Scale BB

Male: RP2000 Generational, 10% Annuitant White Collar / 90% Annuitant Blue Collar, Scale BB

Disabled Lives:

Female: 60% RP2000 Disabled Female set forward two years / 40% Annuitant White Collar with no setback, no

projection scale

Male: 60% RP2000 Disabled Male setback four years / 40% Annuitant White Collar with no setback, no

projection scale

The assumed rates of mortality were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumptions used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in the July 1, 2016 FRS actuarial valuation report for special risk employees. We feel this assumption sufficiently accommodates future mortality improvements.

Previously, the special risk rates from the July 1, 2015 FRS actuarial valuation report were used.

7.125% per year, compounded annually, net of investment related expenses. This assumption is in line with other Florida special risk pension plans

Interest Rate

Termination Rates

	Probability of
<u>Age</u>	Termination
25 - 39	6.00%
40 - 44	2.00%
45 +	0.00%

The assumed rates of termination were utilized by the prior actuary.

Salary Increases

4.00% compounded annually. This assumption was utilized by the prior actuary.

Payroll Growth

None. This is in compliance with Part VII of Chapter 112, Florida Statutes.

Disability Rates

	Probability of
<u>Age</u>	<u>Disablement</u>
25	0.2387%
30	0.2800%
35	0.3867%
40	0.5733%
45	1.0600%
50	1.8467%
55	3.0600%
60	4.7867%
65	0.0000%

45% of disabilities are assumed to be in Line of Duty. The disability assumptions were utilized by the prior actuary.

Retirement Rates

		Probability of
<u>Service</u>	<u>Age</u>	<u>Retirement</u>
< 25 Years	45 - 49	5.0%
	50 - 56	10.0%
	57	50%
	58	70%
	59	90%
	60	100%
25 Years	45 - 57	50%
	58	70%
	59	90%
	60	100%
26 – 29 Years	45 - 56	25%
	57	50%
	58	70%
	59	90%
	60	100%
30 + Years	All Ages	100%

The assumed rates of retirement were utilized by the prior actuary.

\$70,000 annually. This assumption was utilized by the prior actuary.

80% of active participants are assumed to be married with spouses three years younger. This assumption was utilized by the prior actuary.

Five-year smoothing.

Administrative Expenses

Marriage

Actuarial Asset Method

Funding Method

Entry Age Normal Actuarial Cost Method.

The following loads are applied for determination of the Sponsor dollar funding requirement for the following year:

Interest – None; assuming an October 1 deposit.

Salary – A full year, based on the current 4.00% assumption.

VALUATION NOTES

<u>Total Annual Payroll</u> is the projected annual rate of pay as of the valuation date for all covered Members.

<u>Present Value of Benefits</u> is the single sum value on the valuation date of all future benefits to be paid to current Members, Retirees, Beneficiaries, Disability Retirees and Vested Terminations.

<u>Total Required Contribution</u> is equal to the Normal Cost plus an amount sufficient to amortize the Unfunded Accrued Liability over no more than 30 years. The required amount is adjusted for interest according to the timing of contributions during the year.

<u>Entry Age Normal Cost Method</u> - Under this method, the normal cost is the sum of the individual normal costs for all active participants. For an active participant, the normal cost is the participant's normal cost accrual rate, multiplied by the participant's current compensation.

- (a) The normal cost accrual rate equals
 - (i) the present value of future benefits for the participant, determined as of the participant's entry age, divided by
 - (ii) the present value of the compensation expected to be paid to the participant for each year of the participant's anticipated future service, determined as of the participant's entry age.
- (b) In calculating the present value of future compensation, the salary scale is applied both retrospectively and prospectively to estimate compensation in years prior to and subsequent to the valuation year based on the compensation used for the valuation.
- (c) The accrued liability is the sum of the individual accrued liabilities for all participants and beneficiaries. A participant's accrued liability equals the present value, at the participant's attained age, of future benefits less the present value at the participant's attained age of the individual normal costs payable in the future. A beneficiary's accrued liability equals the present value, at the beneficiary's attained age, of future benefits. The unfunded accrued liability equals the total accrued liability less the actuarial value of assets.

(d) Under this method, the entry age used for each active participant is the participant's age at the time he or she would have commenced participation if the plan had always been in existence under current terms, or the age as of which he or she first earns service credits for purposes of benefit accrual under the current terms of the plan.

PARTIAL HISTORY OF PREMIUM TAX REFUNDS

Received During <u>Fiscal Year</u>	<u>Amount</u>	Increase from Previous Year
1998	619,399.23	%
1999	584,429.37	-5.6%
2000	579,318.13	-0.9%
2001	581,500.95	0.4%
2002	657,853.43	13.1%
2003	717,421.06	9.1%
2004	706,380.19	-1.5%
2005	662,758.94	-6.2%
2006	662,758.94	0.0%
2007	662,758.94	0.0%
2008	662,758.94	0.0%
2009	527,249.04	-20.4%
2010	486,189.84	-7.8%
2011	474,151.54	-2.5%
2012	477,013.80	0.6%
2013	473,910.37	-0.7%
2014	473,282.65	-0.1%
2015	512,807.52	8.4%
2016	533,483.40	4.0%
2017	542,276.76	1.6%

EXCESS STATE MONIES RESERVE

	Actual	Applicable	Excess State
	State Contribution	"Frozen" Amount	Monies Reserve
1998	\$619,399.23	\$619,399.23	\$0.00
1999	584,429.37	619,399.23	0.00
2000	579,318.13	619,399.23	0.00
2001	581,500.95	619,399.23	0.00
2002	657,853.43	619,399.23	38,454.20
2003	717,421.06	619,399.23	98,021.83
2004	706,380.19	619,399.23	86,980.96
2005	662,758.94	619,399.23	43,359.71
2006	662,758.94	619,399.23	43,359.71
2007	662,758.94	619,399.23	43,359.71
2008	662,758.94	619,399.23	43,359.71
2009	527,249.04	619,399.23	0.00
2010	486,189.84	619,399.23	0.00
2011	474,151.54	619,399.23	0.00
2012	477,013.80	619,399.23	0.00
2013	473,910.37	619,399.23	0.00
2014	473,282.65	619,399.23	0.00
2015	512,807.52	619,399.23	0.00
2016	533,483.40	619,399.23	0.00
2017	542,276.76	619,399.23	<u>0.00</u>
Equals Current State Monies Reserve			\$396,895.83
Less Amounts Used to Satisfy Minimum Required Contribution for 9/30/2016			(\$90,161.93)
	Less Amounts Used to Required Contribution	(\$306,733.90)	
	Equals Total State Monies Reserve		\$0.00

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2016

Cash and Cash Equivalents 1,299,967 Cash 135,459 Total Cash and Equivalents 1,435,426 Receivables: 4,195 Member Contributions in Transit 4,195 City Contributions in Transit 81 Total Receivable 4,276 Investments: 1 U. S. Bonds and Bills 4,240,291 Mortgage Backed Securities 13,015,049 Corporate Bonds 9,405,249 Stocks 47,305,184 Mutual Funds: 4,533,363 Fixed Income 4,553,363 Pooled/Common/Commingled Funds: 84,659,859 Total Investments 84,659,859 Total Investments 84,659,859 Total Assets 86,099,561 LIABILITIES 271,679 Other Accounts 271,679 Other Accounts 87,313 Total Liabilities 358,992 NET POSITION RESTRICTED FOR PENSIONS 85,740,569	<u>ASSETS</u>	MARKET VALUE
Cash 135,459 Total Cash and Equivalents 1,435,426 Receivables: 4,195 Member Contributions in Transit 4,195 City Contributions in Transit 81 Total Receivable 4,246 Investments: 1 U. S. Bonds and Bills 4,240,291 Mortgage Backed Securities 13,015,049 Corporate Bonds 9,405,264 Stocks 9,405,264 Stocks 47,305,184 Mutual Funds: 4,553,363 Pooled/Common/Commingled Funds: 6,140,708 Real Estate 6,140,708 Total Investments 86,099,561 LIABILITIES Payables: DROP Distributions 271,679 Other Accounts 87,313 Total Liabilities 358,992		1 200 07
Total Cash and Equivalents 1,435,426 Receivables: 4,195 Member Contributions in Transit 4,195 City Contributions in Transit 81 Total Receivable 4,276 Investments:		
Receivables: 4,195 Member Contributions in Transit 4,195 City Contributions in Transit 81 Total Receivable 4,276 Investments:	Casii	155,439
Member Contributions in Transit 4,195 City Contributions in Transit 81 Total Receivable 4,276 Investments:	Total Cash and Equivalents	1,435,426
Member Contributions in Transit 4,195 City Contributions in Transit 81 Total Receivable 4,276 Investments:	Receivables:	
Total Receivable 4,276 Investments:		4,195
Investments: U. S. Bonds and Bills 4,240,291 Mortgage Backed Securities 13,015,049 Corporate Bonds 9,405,264 Stocks 47,305,184 Mutual Funds: Fixed Income Fooled/Common/Commingled Funds: 6,140,708 Total Investments 84,659,859 Total Assets 86,099,561 LIABILITIES 87,313 DROP Distributions 271,679 Other Accounts 87,313 Total Liabilities 358,992	City Contributions in Transit	81
U. S. Bonds and Bills 4,240,291 Mortgage Backed Securities 13,015,049 Corporate Bonds 9,405,264 Stocks 47,305,184 Mutual Funds: Fixed Income 4,553,363 Pooled/Common/Commingled Funds: Real Estate 6,140,708 Total Investments 84,659,859 Total Assets 86,099,561 LIABILITIES Payables: DROP Distributions 271,679 Other Accounts 87,313 Total Liabilities 358,992	Total Receivable	4,276
U. S. Bonds and Bills 4,240,291 Mortgage Backed Securities 13,015,049 Corporate Bonds 9,405,264 Stocks 47,305,184 Mutual Funds: Fixed Income 4,553,363 Pooled/Common/Commingled Funds: Real Estate 6,140,708 Total Investments 84,659,859 Total Assets 86,099,561 LIABILITIES Payables: DROP Distributions 271,679 Other Accounts 87,313 Total Liabilities 358,992		
Mortgage Backed Securities 13,015,049 Corporate Bonds 9,405,264 Stocks 47,305,184 Mutual Funds: 4,553,363 Fixed Income 4,553,363 Pooled/Common/Commingled Funds: 6,140,708 Total Investments 84,659,859 Total Assets 86,099,561 LIABILITIES Payables: DROP Distributions 271,679 Other Accounts 87,313 Total Liabilities 358,992		4.240.201
Corporate Bonds 9,405,264 Stocks 47,305,184 Mutual Funds: ** Fixed Income 4,553,363 Pooled/Common/Commingled Funds: ** Real Estate 6,140,708 Total Investments 84,659,859 Total Assets 86,099,561 LIABILITIES ** Payables: ** DROP Distributions 271,679 Other Accounts 87,313 Total Liabilities 358,992		
Stocks 47,305,184 Mutual Funds: 4,553,363 Fixed Income 4,553,363 Pooled/Common/Commingled Funds: 6,140,708 Total Investments 84,659,859 Total Assets 86,099,561 LIABILITIES Payables: DROP Distributions 271,679 Other Accounts 87,313 Total Liabilities 358,992		
Mutual Funds: Fixed Income Pooled/Common/Commingled Funds: Real Estate Total Investments Total Assets LIABILITIES Payables: DROP Distributions Other Accounts Total Liabilities A,553,363 4,553,363 6,140,708 84,659,859 86,099,561 LIABILITIES Payables: Arrivation of the properties of the prop		
Fixed Income Pooled/Common/Commingled Funds: Real Estate Total Investments Total Assets ELIABILITIES Payables: DROP Distributions Other Accounts Total Liabilities 4,553,363 6,140,708 84,659,859 86,099,561 EXAMPLE OF The Pool o		47,305,184
Pooled/Common/Commingled Funds: Real Estate 6,140,708 Total Investments 84,659,859 Total Assets 86,099,561 LIABILITIES Payables: DROP Distributions Other Accounts Total Liabilities 358,992		4 552 262
Real Estate 6,140,708 Total Investments 84,659,859 Total Assets 86,099,561 LIABILITIES Payables: DROP Distributions 271,679 Other Accounts 87,313 Total Liabilities 358,992		4,333,303
Total Investments Total Assets 86,099,561 LIABILITIES Payables: DROP Distributions Other Accounts Total Liabilities 358,992		6 140 709
Total Assets 86,099,561 LIABILITIES Payables: DROP Distributions Other Accounts 271,679 Other Accounts 87,313 Total Liabilities 358,992	Real Estate	0,140,708
LIABILITIES Payables: DROP Distributions Other Accounts Total Liabilities 271,679 87,313 358,992	Total Investments	84,659,859
Payables: DROP Distributions Other Accounts Total Liabilities 271,679 87,313 358,992	Total Assets	86,099,561
Payables: DROP Distributions Other Accounts Total Liabilities 271,679 87,313 358,992	LIABILITIES	
Other Accounts 87,313 Total Liabilities 358,992		
Total Liabilities 358,992	DROP Distributions	271,679
	Other Accounts	87,313
	Total Liabilities	250 002
NET POSITION RESTRICTED FOR PENSIONS 85,740,569	Total Liabilities	338,992
	NET POSITION RESTRICTED FOR PENSIONS	85,740,569

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2016 Market Value Basis

ADDITIONS
C 4 1 4

End of the Year

ADDITIONS Contributions:		
Member	227,357.00	
City	3,830,736.00	
State	533,483.40	
Total Contributions		4,591,576.40
Investment Income:		
Net Increase in Fair Value of Investments	7,062,255.35	
Interest & Dividends	1,970,056.00	
Less Investment Expense ¹	(415,636.23)	
Net Investment Income		8,616,675.12
Total Additions		13,208,251.52
<u>DEDUCTIONS</u>		
Distributions to Members:		
Benefit Payments	5,093,101.47	
Lump Sum DROP Distributions	2,434,932.50	
Refunds of Member Contributions	11,594.65	
Total Distributions		7,539,628.62
Administrative Expense		58,852.90
Total Deductions		7,598,481.52
Net Increase in Net Position		5,609,770.00
NET POSITION RESTRICTED FOR PENSIONS		
Beginning of the Year		80,130,799.00

85,740,569.00

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

ACTUARIAL ASSET VALUATION September 30, 2016

Actuarial Assets for funding purposes are developed by recognizing the total actuarial investment gain or loss for each Plan Year over a five year period. The actuarial investment gain or loss is defined as the actual return on investments minus the actuarial assumed investment return. Actuarial Assets shall not be less than 80% nor greater than 120% of Market Value of Assets.

Dian Van	Propo	onents for Calculation	-		W/-1-1-4-1
Plan Year Ending	Index	Market Yield in	Growth Factor	Relative	Weighted Value
Enumg	maex	Following Year	ractor	Weight	value
09/30/2012	100.00	14.05%	1.31693	1	8.78
09/30/2013	114.05	8.78%	1.22934	2	18.69
09/30/2014	124.06	-2.83%	1.14758	3	28.47
09/30/2015	120.55	10.96%	1.07125	4	34.44
09/30/2016	133.76		1.00000	5	44.59
Total				15	134.97
	Dε	evelopment of Actuar	ial Value of As	ssets	
(1) Market Value of A	·	, or opinions of Free was	tor (wrong of 1 a)	, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	85,740,569
(2) Adjustment Factor		133.76			1.0090
(3) Actuarial Value of Assets, 09/30/2016, (1) x (2)					86,516,183
(A) 09/30/2015 Actuarial Assets:					83,576,423
(I) Net Investment Income:					
1. Interest and Divid					1,970,056
2. Change in Actuarial Value					4,392,245
3. Investment Exper	nses				(415,636)
•	Total			_	5,946,665
(B) 09/30/2016 Actuarial Assets:				86,516,183	
Actuarial Assets Rate of Return = $2I/(A+B-I)$:				7.25%	
Market Value of Assets Rate of Return:				10.96%	
Actuarial Gain/(Loss)	due to Investment Re	eturn (Actuarial Asset	Basis)		98,966
10/01/2016 Limited	Actuarial Assets:				86,516,183

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS SEPTEMBER 30, 2016 Actuarial Asset Basis

REVENUES

	TE VELVEES	
Contributions:		
Member	227,357.00	
City	3,830,736.00	
State	533,483.40	
	,	
Total Contributions		4,591,576.40
Earnings from Investments:		
Interest & Dividends	1,970,056.00	
	4,392,245.05	
Change in Actuarial Value	4,392,243.03	
Total Earnings and Investment Gains		6,362,301.05
C		, ,
	EXPENDITURES	
Distributions to Members:		
Benefit Payments	5,093,101.47	
Lump Sum DROP Distributions	2,434,932.50	
Refunds of Member Contributions	11,594.65	
Retunds of Member Contributions	11,371.03	
Total Distributions		7,539,628.62
Expenses:		
Investment related ¹	415,636.23	
Administrative	58,852.90	
Administrative	36,632.90	
Total Expenses		474,489.13
Total Expenses		171,107.13
Change in Net Assets for the Year		2,939,759.70
Net Assets Beginning of the Year		83,576,423.00
Net Assets End of the Year ²		86,516,182.70
1 tot 1 toooto Liid of the 1 car		00,510,102.70

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

²Net Assets may be limited for actuarial consideration.

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2017

ASSETS	COST VALUE	MARKET VALUE
Cash and Cash Equivalents: Short Term Investments	1 054 791 00	1 054 791 00
Money Market	1,054,781.09 12.84	1,054,781.09 12.84
Cash	52,732.29	52,732.29
Cush	32,132.2)	32,132.2)
Total Cash and Equivalents	1,107,526.22	1,107,526.22
Receivables:		
Member Contributions in Transit	4,164.45	4,164.45
City Contributions in Transit	1,368.32	1,368.32
From Broker for Investments Sold	17,875.25	17,875.25
Investment Income	203,750.78	203,750.78
Total Receivable	227,158.80	227,158.80
Investments:		
U. S. Bonds and Bills	8,211,973.82	8,174,297.23
Federal Agency Guaranteed Securities	3,574,590.05	3,605,403.82
Corporate Bonds	12,001,635.40	11,803,828.45
Municipal Obligations	1,355,498.64	1,359,531.10
Stocks	31,612,791.39	41,587,642.31
Mutual Funds:	31,012,731.33	11,507,012.51
Fixed Income	2,648,296.58	2,648,296.58
Equity	13,736,674.43	14,373,557.87
Pooled/Common/Commingled Funds:	, ,	
Real Estate	8,025,018.16	9,293,154.77
Total Investments	81,166,478.47	92,845,712.13
Total Assets	82,501,163.49	94,180,397.15
<u>LIABILITIES</u>		
Payables:		
DROP Distributions	432,062.82	432,062.82
Other Accounts	74,239.18	74,239.18
To Broker for Investments Purchased	56,634.26	56,634.26
Total Liabilities	562,936.26	562,936.26
NET POSITION RESTRICTED FOR PENSIONS	81,938,227.23	93,617,460.89

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2017 Market Value Basis

ADDITIONS Contributions: Member Buy-Back City State	218,457.18 41,367.21 4,331,190.07 542,276.76	
Total Contributions		5,133,291.22
Investment Income: Net Increase in Fair Value of Investments Interest & Dividends Less Investment Expense ¹	9,940,954.92 1,991,106.95 (318,018.29)	
Net Investment Income		11,614,043.58
Total Additions		16,747,334.80
DEDUCTIONS Distributions to Members: Benefit Payments Lump Sum DROP Distributions Refunds of Member Contributions	5,756,158.62 2,992,547.72 6,365.64	
Total Distributions		8,755,071.98
Administrative Expense		115,370.93
Total Deductions		8,870,442.91
Net Increase in Net Position		7,876,891.89
NET POSITION RESTRICTED FOR PENSIONS Beginning of the Year		85,740,569.00

End of the Year

93,617,460.89

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

ACTUARIAL ASSET VALUATION September 30, 2017

Actuarial Assets for funding purposes are developed by recognizing the total actuarial investment gain or loss for each Plan Year over a five year period. The actuarial investment gain or loss is defined as the actual return on investments minus the actuarial assumed investment return. Actuarial Assets shall not be less than 80% nor greater than 120% of Market Value of Assets.

Dian Wasa	Propo	onents for Calculation	-		XX ' 1 . 1	
Plan Year	T., 1	Market Yield in	Growth	Relative	Weighted	
Ending	Index	Following Year	Factor	Weight	Value	
09/30/2013	100.00	8.78%	1.31693	1	8.78	
09/30/2014	108.78	-2.83%	1.22934	2	17.83	
09/30/2015	105.70	10.96%	1.14758	3	24.26	
09/30/2016	117.29	13.48%	1.07125	4	33.50	
09/30/2017	133.10		1.00000	5	44.37	
Total			_	15	128.74	
	Dε	evelopment of Actuar	ial Value of As	ssets		
(1) Market Value of A		,			93,617,461	
(2) Adjustment Factor		133.1			0.9672	
(3) Actuarial Value of Assets, 09/30/2017, (1) x (2)						
(A) 09/30/2016 Actuarial Assets:						
(I) Net Investment Inc	come:					
1. Interest and Dividends						
2. Change in Actuarial Value						
3. Investment Expe	nses				(318,018)	
_	Total			-	7,771,772	
(B) 09/30/2017 Actuar	rial Assets:				90,550,803	
Actuarial Assets Rate	of Return = $2I/(A+B)$	-I):			9.18%	
Market Value of Asset	-	,			13.48%	
Actuarial Gain/(Loss) due to Investment Return (Actuarial Asset Basis)						
10/01/2017 Limited	l Actuarial Assets:				90,550,803	

CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS SEPTEMBER 30, 2017 Actuarial Asset Basis

REVENUES

	TE VELVEES	
Contributions:		
Member	218,457.18	
Buy-Back	41,367.21	
City	4,331,190.07	
State	542,276.76	
Total Contributions		5,133,291.22
Earnings from Investments:		
Interest & Dividends	1,991,106.95	
Change in Actuarial Value	6,098,683.60	
Total Earnings and Investment Gains		8,089,790.55
I	EXPENDITURES	
Distributions to Members:		
Benefit Payments	5,756,158.62	
Lump Sum DROP Distributions	2,992,547.72	
Refunds of Member Contributions	6,365.64	
Total Distributions		8,755,071.98
Expenses:		
Investment related ¹	318,018.29	
Administrative	115,370.93	
Tatal Farmana		422 280 22
Total Expenses		433,389.22
Change in Net Assets for the Year		4,034,620.57
Net Assets Beginning of the Year		86,516,182.70
Net Assets End of the Year ²		90,550,803.27

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

²Net Assets may be limited for actuarial consideration.

DEFERRED RETIREMENT OPTION PLAN ACTIVITY October 1, 2016 to September 30, 2017

Beginning of the Year Balance	2,927,265.98
Plus Additions	619,700.14
Investment Return Earned	61,210.13
Less Distributions	(2,992,547.72)
End of the Year Balance	615,628.53

STATISTICAL DATA

	10/1/2014	<u>10/1/2015</u>	10/1/2017
Actives			
Number	91	88	73
Average Current Age	40.8	41.4	42.2
Average Age at Employment	27.8	27.5	27.2
Average Past Service	13.0	13.9	15.0
Average Annual Salary	\$49,366	\$51,593	\$56,580
Service Retirees			
Number	83	91	116
Average Current Age	65.2	64.3	64.2
Average Annual Benefit	\$40,271	\$42,663	\$44,832
DROP Retirees			
Number	27	21	9
Average Current Age	53.0	54.0	53.1
Average Annual Benefit	\$60,397	\$59,448	\$53,328
<u>Beneficiaries</u>			
Number	33	31	28
Average Current Age	72.2	72.7	73.4
Average Annual Benefit	\$19,753	\$20,626	\$21,913
Disability Retirees			
Number	17	16	15
Average Current Age	68.5	68.4	69.6
Average Annual Benefit	\$15,467	\$16,387	\$17,434
Terminated Vested			
Number	14	13	14
Average Current Age	68.5	68.4	40.7
Average Annual Benefit ¹	\$9,953	\$9,282	\$10,015

¹ The Average Annual Benefit excludes participants awaiting a refund of contributions.

AGE AND SERVICE DISTRIBUTION

PAST SERVICE

AGE	0	1	2	3	4	5-9	10-14	15-19	20-24	25-29	30+	Total
15 - 19	0	0	0	0	0	0	0	0	0	0	0	0
20 - 24	0	0	0	0	0	0	0	0	0	0	0	0
25 - 29	0	0	0	0	1	1	0	0	0	0	0	2
30 - 34	0	0	0	0	0	2	5	0	0	0	0	7
35 - 39	0	0	0	0	0	3	10	3	0	0	0	16
40 - 44	0	0	0	0	1	3	4	10	3	0	0	21
45 - 49	0	0	0	0	0	1	3	9	3	2	0	18
50 - 54	0	0	0	0	0	0	1	1	4	1	0	7
55 - 59	0	0	0	0	0	0	0	0	1	0	0	1
60 - 64	0	0	0	0	0	0	0	0	1	0	0	1
65+	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	2	10	23	23	12	3	0	73

VALUATION PARTICIPANT RECONCILIATION

1. Active lives

a. Number in prior valuation 10/1/2015	88
b. Terminations	
i. Vested (partial or full) with deferred benefits	(2)
ii. Non-vested or full lump sum distribution received	(3)
c. Deaths	
i. Beneficiary receiving benefits	0
ii. No future benefits payable	0
d. Disabled	0
e. Retired	(4)
f. DROP	<u>(6)</u>
g. Continuing participants	73
h. New entrants	<u>0</u>
i. Total active life participants in valuation	73

2. Non-Active lives (including beneficiaries receiving benefits)

	Service Retirees, Vested Receiving Benefits	DROP Benefits	Receiving Death Benefits	Receiving Disability Benefits	Vested <u>Deferred</u>	<u>Total</u>
a. Number prior valuation	91	21	31	16	13	172
Retired	23	(12)	0	0	(1)	10
DROP	0	0	0	0	0	0
Vested Deferred	0	0	0	0	2	2
Death, With Survivor	0	0	1	(1)	0	0
Death, No Survivor	0	0	(4)	0	0	(4)
Disabled	0	0	0	0	0	0
Refund of Contributions	0	0	0	0	0	0
Rehires	0	0	0	0	0	0
Expired Annuities	0	0	0	0	0	0
Data Corrections	2	0	0	0	0	2
b. Number current valuation	116	9	28	15	14	182

SUMMARY OF PLAN PROVISIONS

Eligibility Employees who are classified as full-time Police

Officers hired prior to January 1, 2013 shall participate

in the System as a condition of employment.

Credited Service Aggregate number of years of service and fractional

parts of years of service

<u>Compensation</u> Total cash compensation, educational incentive pay,

court pay, automobile and/or meals and uniform expense, accumulated sick leave at retirement and vacation pay at retirement, special duty pay, shift

differential pay, or special bonuses.

Effective January 1, 2013, compensation shall be limited to an officer's base pay and senior officer pay exclusive of overtime for earnings on or after January 1, 2013, but shall include overtime which had been earned as of

December 21, 2012.

<u>Average Final Compensation</u> Average Compensation for the best 2 years out of the

last 5 years of Credited Service for Members with 20 or more years of Credited Service as of January 1, 2013.

Average Compensation for the last 5 years of Credited Service for Members with less than 20 years of Credited

Service as of January 1, 2013.

Member Contributions 5.20% of Salary.

<u>City and State Contributions</u>

Remaining amount required in order to pay current costs

and amortize unfunded past service cost, if any, as provided in Part VII of Chapter 112, Florida Statutes.

Normal Retirement

Date Earlier of (1) Age 55 and 12 years of Credited Service,

or (2) 25 years of Credited Service, regardless of Age.

Benefit 3.00% of Average Final Compensation for each full year

of Credited Service.

Form of Benefit Ten Year Certain and Life Annuity (options available).

Early Retirement

Eligibility Age 50 and 12 Years of Credited Service.

Benefit Accrued benefit, reduced 3% per year for each year

preceding age 55.

Vesting

Less than 12 years of Credited Service

Refund of Member Contributions.

12 or more years of Credited Service

Accrued benefit payable at the Member's otherwise

Normal Retirement Date

or

Refund of Member Contributions

Disability

Eligibility

Line of Duty Total and permanent disability.

Non Line of Duty

Total and permanent disability with at least 12 years of

Credited Service.

Benefit

Line of Duty 3.00% of Average Final Compensation for each full year

of Credited Service. Minimum benefit is 42% of AFC.

Non Line of Duty 3.00% of Average Final Compensation for each full year

of Credited Service. Minimum benefit is 25% of AFC.

Form of Benefit Payable as a 10-year Certain and Life Annuity. Options

available.

Death Benefits

Pre-Retirement

Line of Duty 3.00% of Average Final Compensation for each full year

of Credited Service. Minimum benefit is 42% of AFC.

Non Line of Duty For members with 12 or more years of Credited Service:

3.00% of Average Final Compensation for each full year of Credited Service. Minimum benefit is 25% of AFC.

For members with less than 12 years of Credited Service: Refund of accumulated contributions without

interest.

Post-Retirement Benefits payable to beneficiary in accordance with

option selected at retirement.

<u>Board of Trustees</u> a. Two City Council appointees,

b. Two Members of the Department elected by the

membership, and

c. Fifth Member chosen by a majority of the other four

trustees

Deferred Retirement Option Plan

Eligibility Satisfaction of Retirement requirements.

Participation Not to exceed 60 months.

Rate of Return

Members who entered DROP Prior to January 1, 2013

4.00% annual interest.

Members who entered DROP On or after January 1, 2013

1.30% annual interest.

Form of Distribution Cash lump sum (options available) at termination of

employment.

Cost-of-Living Adjustment

Eligibility All members in payment status.

Increased annually effective each January 1st based on

Consumer Price Index as of the previous September 30^{th} ,

limited to 3.00% per year for retirees and DROP

participants. The limit is 2.00% per year after 10 years of benefit payments for retirees who retire on or after January 1, 2013. Additionally, Members who entered the DROP on or after January 1, 2013 shall not receive any cost-of-living adjustments while participating in the

DROP.

STATEMENT OF FIDUCIARY NET POSITION SEPTEMBER 30, 2017

<u>ASSETS</u>	MARKET VALUE
Cash and Cash Equivalents:	
Short Term Investments	1,054,781
Money Market	13
Cash	52,732
Total Cash and Equivalents	1,107,526
Receivables:	
Member Contributions in Transit	4,165
City Contributions in Transit	1,368
From Broker for Investments Sold	17,875
Investment Income	203,751
investment income	203,731
Total Receivable	227,159
Investments:	
U. S. Bonds and Bills	8,174,297
Federal Agency Guaranteed Securities	3,605,404
Corporate Bonds	11,803,828
Municipal Obligations	1,359,531
Stocks	41,587,642
Mutual Funds:	11,007,012
Fixed Income	2,648,297
Equity	14,373,558
Pooled/Common/Commingled Funds:	11,575,550
Real Estate	9,293,155
2000	>, <u>=</u> >e,1ee
Total Investments	92,845,712
Total Assets	94,180,397
LIABILITIES	
Payables:	
DROP Distributions	432,063
Other Accounts	74,239
To Broker for Investments Purchased	56,634
10 Diokei 101 nivestinents i trentsett	30,034
Total Liabilities	562,936
NET POSITION RESTRICTED FOR PENSIONS	93,617,461

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION FOR THE YEAR ENDED SEPTEMBER 30, 2017

Market Value Basis

ADDITIONS Contributions: Member Buy-Back City State	218,457 41,367 4,331,190 542,277
Total Contributions	5,133,291
Investment Income: Net Increase in Fair Value of Investments Interest & Dividends Less Investment Expense ¹	9,940,955 1,991,107 (318,018)
Net Investment Income	11,614,044
Total Additions	16,747,335
DEDUCTIONS Distributions to Members: Benefit Payments Lump Sum DROP Distributions Lump Sum Share Distributions Refunds of Member Contributions	5,756,158 2,992,548 0 6,366
Total Distributions	8,755,072
Administrative Expense	115,371
Total Deductions	8,870,443
Net Increase in Net Position	7,876,892
NET POSITION RESTRICTED FOR PENSIONS Beginning of the Year	85,740,569
End of the Year	93,617,461

¹Investment related expenses include investment advisory, custodial and performance monitoring fees.

NOTES TO THE FINANCIAL STATEMENTS

(For the Year Ended September 30, 2017)

Plan Description

Plan Administration

The Plan is a single-employer defined benefit pension plan administered by the Plan's Board of Trustees comprised of:

- a. Two City Council appointees,
- b. Two Members of the Department elected by the membership, and
- c. Fifth Member chosen by a majority of the other four.

Employees who are classified as full-time Police Officers hired prior to January 1, 2013 shall participate in the System as a condition of employment.

Plan Membership as of October 1, 2017:

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	168
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	14
Active Plan Members	73
	255

Benefits Provided

The Plan provides retirement, termination, disability and death benefits.

Normal Retirement:

Date: Earlier of (1) Age 55 and 12 years of Credited Service, or (2) 25 years of Credited Service, regardless of Age.

Benefit: 3.00% of Average Final Compensation for each full year of Credited Service.

Early Retirement:

Eligibility: Age 50 and 12 Years of Credited Service.

Benefit: Accrued benefit, reduced 3% per year for each year preceding age 55.

Vesting:

Less than 12 years of Credited Service: Refund of Member Contributions.

12 or more years of Credited Service: Accrued benefit payable at the Member's otherwise Normal Retirement Date or Refund of Member Contributions.

Disability:

Eligibility Service Incured: Total and permanent disability.

Eligibility Non-Service Incured: Total and permanent disability with at least 12 years of Credited Service.

Benefit Line of Duty: 3.00% of Average Final Compensation for each full year of Credited Service. Minimum benefit is 42% of AFC.

Benefit Non Line of Duty: 3.00% of Average Final Compensation for each full year of Credited Service. Minimum benefit is 25% of AFC.

Death Benefits Pre-Retirement:

Line of Duty: 3.00% of Average Final Compensation for each full year of Credited Service. Minimum benefit is 42% of AFC. None Line of Duty: For members with 12 or more years of Credited Service: 3.00% of Average Final Compensation for each full year of Credited Service. Minimum benefit is 25% of AFC. For members with less than 12 years of Credited Service: Refund of accumulated contributions without interest.

Cost-of-Living Adjustment:

Eligibility: All members in payment status.

Increased annually effective each January 1st based on Consumer Price Index as of the previous September 30th, limited to 3.00% per year for retirees and DROP participants. The limit is 2.00% per year after 10 years of benefit payments for retirees who retire on or after January 1, 2013. Additionally, Members who entered the DROP on or after January 1, 2013 shall not receive any cost-of-living adjustments while participating in the DROP.

Contributions

Member: 5.20% of Salary.

City and State: Remaining amount required in order to pay current costs and amortize unfunded past service cost, if any, as provided in Part VII of Chapter 112, Florida Statutes.

Investments

Investment Policy:

The following was the Board's adopted asset allocation policy as of September 30, 2017:

Asset Class	Target Allocation
Domestic Equity	45%
International Equity	15%
Broad Market Fixed Income	25%
TIPS	5%
Alternative Investments	10%
Total	100%

Concentrations:

The Plan did not hold investments in any one organization that represent 5 percent or more of the Pension Plan's Fiduciary Net Position.

Rate of Return:

For the year ended September 30, 2017, the annual money-weighted rate of return on Pension Plan investments, net of Pension Plan investment expense, was 13.48 percent.

The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested.

Deferred Retirement Option Program

Eligibility: Satisfaction of Normal Retirement requirements.

Participation: Not to exceed 60 months.

Rate of Return Member who entered DROP Prior to January 1, 2013: 4.00% annual interest.

Rate of Return Member who entered DROP On or after January 1, 2013: 1.30% annual interest.

The DROP balance as September 30, 2017 is \$615,629.

NET PENSION LIABILITY OF THE SPONSOR

The components of the Net Pension Liability of the Sponsor on September 30, 2017 were as follows:

Total Pension Liability	\$ 127,993,821
Plan Fiduciary Net Position	\$ (93,617,461)
Less reserve accounts	\$ 775,007
Sponsor's Net Pension Liability	\$ 35,151,367
Plan Fiduciary Net Position as a percentage of Total Pension Liability	73.14%

Actuarial Assumptions:

The Total Pension Liability was determined by an actuarial valuation as of October 1, 2017 using the following actuarial assumptions:

Inflation	2.50%
Salary Increases	4.00%
Discount Rate	7.125%
Investment Rate of Return	7.125%

Mortality Rate Healthy Inactive Lives: □

Female: RP 2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: RP 2000 Generational, 10% Annuitant White Collar / 90% Annuitant Blue Collar, Scale BB.

Mortality Rate Healthy Active Lives:

Female: RP2000 Generational, 100% Combined Healthy White Collar, Scale BB.

Male: RP2000 Generational, 10% Combined Healthy White Collar / 90% Combined Healthy Blue Collar, Scale BB.

Mortality Rate Disabled Lives:

Female: 60% RP2000 Disabled Female set forward two years / 40% Annuitant White Collar with no setback, no projection scale.

Male: 60% RP2000 Disabled Male setback four years / 40% Annuitant White Collar with no setback, no projection scale.

The most recent actuarial experience study used to review the other significant assumptions was not available.

The Long-Term Expected Rate of Return on Pension Plan investments can be determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of Pension Plan investment expenses and inflation) are developed for each major asset class.

For 2017 the inflation rate assumption of the investment advisor was 2.50%.

These ranges are combined to produce the Long-Term Expected Rate of Return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

Best estimates of geometric real rates of return for each major asset class included in the Pension Plan's target asset allocation as of September 30, 2017 are summarized in the following table:

I on a Toma

	Long Term
	Expected Real
Asset Class	Rate of Return
Domestic Equity	7.5%
International Equity	8.5%
Broad Market Fixed Income	2.5%
TIPS	2.5%
Alternative Investments	5.0%

Discount Rate:

The Discount Rate used to measure the Total Pension Liability was 7.125 percent.

The projection of cash flows used to determine the Discount Rate assumed that Plan Member contributions will be made at the current contribution rate and that Sponsor contributions will be made at rates equal to the difference between actuarially determined contribution rates and the Member rate. Based on those assumptions, the Pension Plan's Fiduciary Net Position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the Long-Term Expected Rate of Return on Pension Plan investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

		Current	
	1% Decrease	Discount Rate	1% Increase
	6.125%	7.125%	8.125%
Sponsor's Net Pension Liability	\$ 52,879,640	\$ 35,151,367	\$ 20,760,084

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 10 Fiscal Years

	 09/30/2017	 09/30/20161	 9/30/20151
Total Pension Liability			
Service Cost	761,793	912,596	818,742
Interest	8,977,910	8,876,315	8,390,513
Changes of benefit terms	-	-	-
Differences between Expected and Actual Experience	(2,653,681)	-	312,274
Changes of assumptions	-	-	6,217,609
Contributions - Buy Back	41,367	-	-
Benefit Payments, including Refunds of Employee Contributions	 (8,755,072)	(7,539,629)	(6,446,003)
Net Change in Total Pension Liability	\$ (1,627,683)	\$ 2,249,282	\$ 9,293,135
Total Pension Liability - Beginning	\$ 129,621,504	\$ 127,372,222	\$ 118,079,087
Total Pension Liability - Ending (a)	\$ 127,993,821	\$ 129,621,504	\$ 127,372,222
		-	
Plan Fiduciary Net Position			
Contributions - Employer	4,331,190	3,830,736	3,830,839
Contributions - State	542,277	533,483	512,808
Contributions - Employee	218,457	227,357	240,097
Contributions - Buy Back	41,367	-	-
Net Investment Income	11,614,044	8,651,676	(2,362,487)
Benefit Payments, including Refunds of Employee Contributions	(8,755,072)	(7,539,629)	(6,446,003)
Administrative Expense	 (115,371)	(93,853)	(82,441)
Net Change in Plan Fiduciary Net Position	7,876,892	5,609,770	(4,307,187)
Plan Fiduciary Net Position - Beginning	85,740,569	80,130,799	84,437,986
	\$ 93,617,461	\$ 85,740,569	\$ 80,130,799
Less reserve accounts	\$ 775,007	\$ 1,168,510	\$ 1,203,293
Plan Fiduciary Net Position - Ending (b)	\$ 92,842,454	\$ 84,572,059	\$ 78,927,506
Net Pension Liability - Ending (a) - (b)	\$ 35,151,367	\$ 45,049,445	\$ 48,444,716
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	73.14%	65.2%	62.0%
Covered Employee Payroll	\$ 4,201,063	\$ 4,372,250	\$ 4,423,864
Net Pension Liability as a percentage of Covered Employee Payroll	836.73%	2964.6%	2879.2%

Notes to Schedule:

¹ These results were provided by the prior actuary, Pension Board Consultants, Inc., Atlanta, Georgia.

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 10 Fiscal Years

	09/30/20141	09/30/20131	09/30/20121
Total Pension Liability			
Service Cost	860,340	1,282,649	1,605,230
Interest	8,151,071	8,164,809	7,835,535
Changes of benefit terms	-	(5,724,271)	-
Differences between Expected and Actual Experience	866,959	1,943,060	(2,734,414)
Changes of assumptions	3,431,350	3,373,204	2,145,252
Contributions - Buy Back	-	-	-
Benefit Payments, including Refunds of Employee Contributions	(5,994,107)	(4,605,472)	(3,967,087)
Net Change in Total Pension Liability	\$ 7,315,613	\$ 4,433,979	\$ 4,884,516
Total Pension Liability - Beginning	\$110,763,474	\$106,329,495	\$101,444,979
Total Pension Liability - Ending (a)	\$118,079,087	\$110,763,474	\$106,329,495
Plan Fiduciary Net Position			
Contributions - Employer	3,825,656	2,485,715	3,025,714
Contributions - State	473,283	473,910	477,014
Contributions - Employee	156,000	61,590	29,199
Contributions - Buy Back	12,024	237,089	763,031
Net Investment Income	6,881,022	9,839,718	11,504,769
Benefit Payments, including Refunds of Employee Contributions	(5,994,107)	(4,605,472)	(3,967,087)
Administrative Expense	(69,051)	(74,488)	(73,465)
Net Change in Plan Fiduciary Net Position	5,284,827	8,418,062	11,759,175
Plan Fiduciary Net Position - Beginning	79,153,159	70,735,097	58,975,922
	\$ 84,437,986	\$ 79,153,159	\$ 70,735,097
Less reserve accounts	\$ 1,097,405	\$ 1,019,927	\$ 847,359
Plan Fiduciary Net Position - Ending (b)	\$ 83,340,581	\$ 78,133,232	\$ 69,887,738
Net Pension Liability - Ending (a) - (b)	\$ 34,738,506	\$ 32,630,242	\$ 36,441,757
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	70.6%	70.5%	65.7%
Covered Employee Poynell	¢ 4277.070	¢ 4070 112	¢ 5.207.020
Covered Employee Payroll Net Pension Liability as a percentage of Covered Employee Payroll	\$ 4,377,970 2697.1%	\$ 4,870,112 2274.4%	\$ 5,296,929 2007.4%
Net rension Liability as a percentage of Covered Employee Payron	2097.1%	2274.4%	2007.4%

Notes to Schedule:

¹ These results were provided by the prior actuary, Pension Board Consultants, Inc., Atlanta, Georgia.

SCHEDULE OF CONTRIBUTIONS

Last 10 Fiscal Years

		Contributions in			
		relation to the			Contributions as a
	Actuarially	Actuarially	Contribution		percentage of
	Determined	Determined	Deficiency	Covered Employee	Covered Employee
Fiscal Year Ended	Contribution	Contributions	(Excess)	Payroll	Payroll
09/30/2017	\$5,236,129	\$5,236,129	\$ -	\$4,201,063	124.64%
09/30/20161	\$5,256,803	\$5,256,803	\$ _	\$4,372,250	120.23%
09/30/20151	\$4,452,427	\$4,452,427	\$ -	\$4,423,864	100.65%
09/30/20141	\$4,298,939	\$4,298,939	\$ -	\$4,466,862	96.24%
09/30/20131	\$2,832,155	\$2,832,155	\$ -	\$4,870,112	58.15%
09/30/20121	\$3,356,717	\$3,356,717	\$ -	\$5,296,929	63.37%
09/30/20111	\$4,017,967	\$4,017,967	\$ -	\$6,766,158	59.38%
09/30/20101	\$3,133,416	\$3,133,416	\$ -	\$6,966,752	44.98%
09/30/20091	\$3,278,441	\$3,278,441	\$ -	\$7,093,224	46.22%
09/30/20081	\$3,484,299	\$3,484,299	\$ _	\$7,577,663	45.98%

¹ These results were provided by the prior actuary, Pension Board Consultants, Inc., Atlanta, Georgia.

Notes to Schedule

Valuation Date: 10/01/2015

Actuarially determined contribution rates are calculated as of October 1, two years prior to the end of the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates:

Funding Method: Entry Age Normal Actuarial Cost Method.

Assets: Five year Smoothing.

Annual Investment Yield: 7.125% compounded annually. Salary Scale: 4.0% compounded annually. Increase in Benefits: 2.5% per year after retirement. Mortality: Pre- and Post-Retirement:

All using RP-2000 Generational, Scale BB with

Female: 100% Annuitant White Collar

Male: 10% Annuitant White Collar/90% Annuitant Blue collar

Post-Disablement:

Female: 60% RP2000 Disabled Female set forward two years/40% Annuitant White Collar with no

setback, no projection scale.

Male: 60% RP2000 Disabled Male setback four years/40% Annuitant White Collar with no setback, no

projection scale.

Probability of Death: Line of Duty: 15%; Non-Line of Duty: 85% Turnover: No vested refunds or disability recoveries.

	Probability of	Probability of
Age	Disability	Withdrawal
25-35	0.002387-0.003867	0.060
40	0.005733	0.020
55	0.030600	0.000

Probability of Disability: Line of Duty: 45%; Non-Line of Duty: 55%

Percent Married: 80% of active participants married with spouses three years younger. Inactives and DROP participant

status is same as reported tax status.

Retirement:

The greater of the rates below:

Service	Annual Rate
25 YOS	0.50
26-29 YOS	0.25
30 YOS	1.00

Age	Annual Rate
45-49	0.05
50-56	0.10
57	0.50
58	0.70
59	0.90
60	1.00

SCHEDULE OF INVESTMENT RETURNS

Last 10 Fiscal Years

Annual Money-Weighted Rate of Return

Fiscal Year Ended	Net of Investment Expense
09/30/2017	13.48%
09/30/20161	11.11%
09/30/20151	-2.34%
09/30/20141	9.00%
09/30/20131	14.64%
09/30/20121	20.16%
09/30/20111	1.77%
09/30/20101	9.70%
09/30/20091	0.79%
09/30/20081	-11.03%
09/30/20071	12.90%

¹ These results were provided by the prior actuary, Pension Board Consultants, Inc., Atlanta, Georgia.

NOTES TO THE FINANCIAL STATEMENTS

(For the Year Ended September 30, 2018)

General Information about the Pension Plan

Plan Description

The Plan is a single-employer defined benefit pension plan administered by the Plan's Board of Trustees comprised of:

- a. Two City Council appointees,
- b. Two Members of the Department elected by the membership, and
- c. Fifth Member chosen by a majority of the other four.

Employees who are classified as full-time Police Officers hired prior to January 1, 2013 shall participate in the System as a condition of employment.

Plan Membership as of October 1, 2017:

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	168
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	14
Active Plan Members	73
	255

Benefits Provided

The Plan provides retirement, termination, disability and death benefits.

Normal Retirement:

Date: Earlier of (1) Age 55 and 12 years of Credited Service, or (2) 25 years of Credited Service, regardless of Age.

Benefit: 3.00% of Average Final Compensation for each full year of Credited Service.

Early Retirement:

Eligibility: Age 50 and 12 Years of Credited Service.

Benefit: Accrued benefit, reduced 3% per year for each year preceding age 55.

Vesting:

Less than 12 years of Credited Service: Refund of Member Contributions.

12 or more years of Credited Service: Accrued benefit payable at the Member's otherwise Normal Retirement Date or Refund of Member Contributions.

Disability:

Eligibility Service Incured: Total and permanent disability.

Eligibility Non-Service Incured: Total and permanent disability with at least 12 years of Credited Service.

Benefit Line of Duty: 3.00% of Average Final Compensation for each full year of Credited Service. Minimum benefit is 42% of AFC.

Benefit Non Line of Duty: 3.00% of Average Final Compensation for each full year of Credited Service. Minimum benefit is 25% of AFC.

Death Benefits Pre-Retirement:

Line of Duty: 3.00% of Average Final Compensation for each full year of Credited Service. Minimum benefit is 42% of AFC. None Line of Duty: For members with 12 or more years of Credited Service: 3.00% of Average Final Compensation for each full year of Credited Service. Minimum benefit is 25% of AFC. For members with less than 12 years of Credited Service: Refund of accumulated contributions without interest.

Cost-of-Living Adjustment:

Eligibility: All members in payment status.

Increased annually effective each January 1st based on Consumer Price Index as of the previous September 30th, limited to 3.00% per year for retirees and DROP participants. The limit is 2.00% per year after 10 years of benefit payments for retirees who retire on or after January 1, 2013. Additionally, Members who entered the DROP on or after January 1, 2013 shall not receive any cost-of-living adjustments while participating in the DROP.

Contributions

Member: 5.20% of Salary.

City and State: Remaining amount required in order to pay current costs and amortize unfunded past service cost, if any, as provided in Part VII of Chapter 112, Florida Statutes.

Net Pension Liability

The measurement date is September 30, 2017.

The measurement period for the pension expense was October 1, 2016 to September 30, 2017.

The reporting period is October 1, 2017 through September 30, 2018.

The Sponsor's Net Pension Liability was measured as of September 30, 2017.

The Total Pension Liability used to calculate the Net Pension Liability was determined as of that date.

Actuarial Assumptions:

The Total Pension Liability was determined by an actuarial valuation as of October 1, 2017 using the following actuarial assumptions:

Inflation2.50%Salary Increases4.00%Discount Rate7.125%Investment Rate of Return7.125%

Mortality Rate Healthy Inactive Lives:

Female: RP 2000 Generational, 100% Annuitant White Collar, Scale BB.

Male: RP 2000 Generational, 10% Annuitant White Collar / 90% Annuitant Blue Collar, Scale BB.

Mortality Rate Healthy Active Lives:

Female: RP2000 Generational, 100% Combined Healthy White Collar, Scale BB.

Male: RP2000 Generational, 10% Combined Healthy White Collar / 90% Combined Healthy Blue Collar, Scale BB.

Mortality Rate Disabled Lives:

Female: 60% RP2000 Disabled Female set forward two years / 40% Annuitant White Collar with no setback, no projection scale. Male: 60% RP2000 Disabled Male setback four years / 40% Annuitant White Collar with no setback, no projection scale.

The most recent actuarial experience study used to review the other significant assumptions was not available.

The Long-Term Expected Rate of Return on Pension Plan investments can be determined using a building-block method in which best-estimate ranges of expected future real rates of return (expected returns, net of Pension Plan investment expenses and inflation) are developed for each major asset class.

For 2017 the inflation rate assumption of the investment advisor was 2.50%.

These ranges are combined to produce the Long-Term Expected Rate of Return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation.

Best estimates of geometric real rates of return for each major asset class included in the Pension Plan's target asset allocation as of September 30, 2017 are summarized in the following table:

		Long Term Expected
Asset Class	Target Allocation	Real Rate of Return
Domestic Equity	45%	7.50%
International Equity	15%	8.50%
Broad Market Fixed Income	25%	2.50%
TIPS	5%	2.50%
Alternative Investments	10%	5.00%
Total	100%	

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Discount Rate:

The Discount Rate used to measure the Total Pension Liability was 7.125 percent.

The projection of cash flows used to determine the Discount Rate assumed that Plan Member contributions will be made at the current contribution rate and that Sponsor contributions will be made at rates equal to the difference between actuarially determined contribution rates and the Member rate. Based on those assumptions, the Pension Plan's Fiduciary Net Position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the Long-Term Expected Rate of Return on Pension Plan investments was applied to all periods of projected benefit payments to determine the Total Pension Liability.

CHANGES IN NET PENSION LIABILITY

	Increase (Decrease)		
	Total Pension	Plan Fiduciary	Net Pension
	Liability	Net Position	Liability
	(a)	(b)	(a)-(b)
Reporting Period Ending September 30, 2017 ¹	\$ 129,621,504	\$ 85,740,569	\$ 43,880,935
Changes for a Year:			
Service Cost	761,793	-	761,793
Interest	8,977,910	-	8,977,910
Differences between Expected and Actual Experience	(2,653,681)	-	(2,653,681)
Changes of assumptions	-	-	-
Changes of benefit terms	-	-	-
Contributions - Employer	-	4,331,190	(4,331,190)
Contributions - State	-	542,277	(542,277)
Contributions - Employee	-	218,457	(218,457)
Contributions - Buy Back	41,367	41,367	-
Net Investment Income	-	11,614,044	(11,614,044)
Benefit Payments, including Refunds of Employee Contributions	(8,755,072)	(8,755,072)	-
Administrative Expense	-	(115,371)	115,371
Less reserve accounts		(775,007)	775,007
Net Changes	(1,627,683)	7,101,885	(8,729,568)
Reporting Period Ending September 30, 2018	\$ 127,993,821	\$ 92,842,454	\$ 35,151,367

¹ The balance of the Total Pension Liability as of 09/30/2017 is included with the reserve accounts balances of prior measurement date.

Sensitivity of the Net Pension Liability to changes in the Discount Rate.

		Current Discount	
	1% Decrease	Rate	1% Increase
	6.125%	7.125%	8.125%
Sponsor's Net Pension Liability	\$ 52,879,640	\$ 35,151,367	\$ 20,760,084

Pension Plan Fiduciary Net Position.

Detailed information about the pension Plan's Fiduciary Net Position is available in a separately issued Plan financial report.

FINAL PENSION EXPENSE AND DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES RELATED TO PENSIONS

FISCAL YEAR SEPTEMBER 30, 2017

For the year ended September 30, 2017, the Sponsor has recognized a Pension Expense of \$7,380,689. On September 30, 2017, the Sponsor reported Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between Expected and Actual Experience	381.712	
Changes of assumptions	3,840,455	-
Net difference between Projected and Actual Earnings on Pension Plan investments	2,505,006	-
Employer and State contributions subsequent to the measurement date	4,873,467	
Total	\$ 11,600,640	\$ -

The outcome of the Deferred Outflows of resources related to pensions resulting from Employer and State contributions subsequent to the measurement date will be recognized as a reduction of the Net Pension Liability in the year ended September 30, 2017. Other amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions will be recognized in Pension Expense as follows:

Year ended September 30:	
2018	\$ 3,738,725
2019	\$ 2,398,144
2020	\$ 1,131,866
2021	\$ (541,562)
2022	\$ -
Thereafter	\$ _

PRELIMINARY PENSION EXPENSE AND DEFERRED OUTFLOWS OF RESOURCES AND DEFERRED INFLOWS OF RESOURCES RELATED TO PENSIONS

FISCAL YEAR SEPTEMBER 30, 2018

For the year ended September 30, 2018, the Sponsor will recognize a Pension Expense of \$4,993,766. On September 30, 2018, the Sponsor reported Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions from the following sources:

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between Expected and Actual Experience	88,165	1,769,120
Changes of assumptions Net difference between Projected and Actual Earnings on Pension Plan investments Employer and State contributions subsequent to the measurement date	1,352,629 - TBD	2,962,878
Total	TBD	\$ 4,731,998

The outcome of the Deferred Outflows of resources related to pensions resulting from Employer and State contributions subsequent to the measurement date will be recognized as a reduction of the Net Pension Liability in the year ended September 30, 2018. Other amounts reported as Deferred Outflows of Resources and Deferred Inflows of Resources related to pensions will be recognized in Pension Expense as follows:

Year ended September 30:	
2019	\$ 385,951
2020	\$ (880,327)
2021	\$ (1,669,195)
2022	\$ (1,127,633)
2023	\$ -
Thereafter	\$ _

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 10 Fiscal Years

Reporting Period Ending	09/30/2018	09/30/2017	09/30/2016
Measurement date	09/30/2017	09/30/20161	09/30/20151
Total Pension Liability			
Service Cost	761,793	912,596	818,742
Interest	8,977,910	8,876,315	8,390,513
Changes of benefit terms	-	-	_
Differences between Expected and Actual Experience	(2,653,681	-	312,274
Changes of assumptions	-	-	6,217,609
Contributions - Buy Back	41,367	-	_
Benefit Payments, including Refunds of Employee Contributions	(8,755,072	(7,539,629)	(6,446,003)
Net Change in Total Pension Liability	\$ (1,627,683	\$ 2,249,282	\$ 9,293,135
Total Pension Liability - Beginning	\$ 129,621,504	\$127,372,222	\$118,079,087
Total Pension Liability - Ending (a)	\$ 127,993,821	\$129,621,504	\$127,372,222
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Plan Fiduciary Net Position			
Contributions - Employer	4,331,190	3,830,736	3,830,839
Contributions - State	542,277	533,483	512,808
Contributions - Employee	218,457	227,357	240,097
Contributions - Buy Back	41,367	-	-
Net Investment Income	11,614,044	8,651,676	(2,362,487)
Benefit Payments, including Refunds of Employee Contributions	(8,755,072	(7,539,629)	(6,446,003)
Administrative Expense	(115,371	(93,853)	(82,441)
Net Change in Plan Fiduciary Net Position	7,876,892	5,609,770	(4,307,187)
Plan Fiduciary Net Position - Beginning	85,740,569	80,130,799	84,437,986
	\$ 93,617,461	\$ 85,740,569	\$ 80,130,799
Less reserve accounts	\$ 775,007	\$ 1,168,510	\$ 1,203,293
Plan Fiduciary Net Position - Ending (b)	\$ 92,842,454	\$ 84,572,059	\$ 78,927,506
Net Pension Liability - Ending (a) - (b)	\$ 35,151,367	\$ 45,049,445	\$ 48,444,716
	+ 22,121,23	Ψ .ε,σ.σ,ε	Ψ 10,111,710
Plan Fiduciary Net Position as a percentage of the Total Pension Liability	73.14%	65.2%	62.0%
Covered Employee Payroll	\$ 4,201,063	\$ 4,372,250	\$ 4,423,864
Net Pension Liability as a percentage of Covered Employee Payroll	836.73%		2879.2%
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Notes to Schedule:

¹ These results were provided by the prior actuary, Pension Board Consultants, Inc., Atlanta, Georgia.

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS Last 10 Fiscal Years

Reporting Period Ending	09/30/2015	09/30/2014	09/30/2013
Measurement date	09/30/20141	09/30/20131	09/30/20121
Total Pension Liability			
Service Cost	860,340	1,282,649	1,605,230
Interest	8,151,071	8,164,809	7,835,535
Changes of benefit terms	-	(5,724,271)	-
Differences between Expected and Actual Experience	866,959	1,943,060	(2,734,414)
Changes of assumptions	3,431,350	3,373,204	2,145,252
Contributions - Buy Back	-	-	-
Benefit Payments, including Refunds of Employee Contributions	(5,994,107)	(4,605,472)	(3,967,087)
Net Change in Total Pension Liability	\$ 7,315,613	\$ 4,433,979	\$ 4,884,516
Total Pension Liability - Beginning	\$110,763,474	\$106,329,495	\$101,444,979
Total Pension Liability - Ending (a)	\$118,079,087	\$110,763,474	\$106,329,495
Plan Fiduciary Net Position			
Contributions - Employer	3,825,656	2,485,715	3,025,714
Contributions - State	473,283	473,910	477,014
Contributions - Employee	156,000	61,590	29,199
Contributions - Buy Back	12,024	237,089	763,031
Net Investment Income	6,881,022	9,839,718	11,504,769
Benefit Payments, including Refunds of Employee Contributions	(5,994,107)	(4,605,472)	(3,967,087)
Administrative Expense	(69,051)	(74,488)	(73,465)
Net Change in Plan Fiduciary Net Position	5,284,827	8,418,062	11,759,175
Plan Fiduciary Net Position - Beginning	79,153,159	70,735,097	58,975,922
	\$ 84,437,986	\$ 79,153,159	\$ 70,735,097
Less reserve accounts	\$ 1,097,405	\$ 1,019,927	\$ 847,359
Plan Fiduciary Net Position - Ending (b)	\$ 83,340,581	\$ 78,133,232	\$ 69,887,738
Net Pension Liability - Ending (a) - (b)	\$ 34,738,506	\$ 32,630,242	\$ 36,441,757
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Plan Fiduciary Net Position as a percentage of the Total Pension Liability	70.6%	70.5%	65.7%
Covered Employee Payroll	\$ 4,377,970	\$ 4,870,112	\$ 5,296,929
Net Pension Liability as a percentage of Covered Employee Payroll	2697.1%	2274.4%	2007.4%

Notes to Schedule:

¹ These results were provided by the prior actuary, Pension Board Consultants, Inc., Atlanta, Georgia.

SCHEDULE OF CONTRIBUTIONS

Last 10 Fiscal Years

		Contributions in			
		relation to the			Contributions as a
	Actuarially	Actuarially	Contribution		percentage of
	Determined	Determined	Deficiency	Covered Employee	Covered Employee
Fiscal Year Ended	Contribution	Contributions	(Excess)	Payroll	Payroll
 09/30/2017	\$5,236,129	\$5,236,129	\$ -	\$4,201,063	124.64%
09/30/20161	\$5,256,803	\$5,256,803	\$ -	\$4,372,250	120.23%
09/30/20151	\$4,452,427	\$4,452,427	\$ -	\$4,423,864	100.65%
09/30/20141	\$4,298,939	\$4,298,939	\$ -	\$4,466,862	96.24%
09/30/20131	\$2,832,155	\$2,832,155	\$ -	\$4,870,112	58.15%
09/30/20121	\$3,356,717	\$3,356,717	\$ -	\$5,296,929	63.37%
09/30/20111	\$4,017,967	\$4,017,967	\$ -	\$6,766,158	59.38%
09/30/20101	\$3,133,416	\$3,133,416	\$ -	\$6,966,752	44.98%
09/30/20091	\$3,278,441	\$3,278,441	\$ -	\$7,093,224	46.22%
09/30/20081	\$3,484,299	\$3,484,299	\$ -	\$7,577,663	45.98%

¹ These results were provided by the prior actuary, Pension Board Consultants, Inc., Atlanta, Georgia.

Notes to Schedule

Valuation Date: 10/01/2015

Actuarially determined contribution rates are calculated as of October 1, two years prior to the end of the fiscal year in which contributions are reported.

Methods and assumptions used to determine contribution rates:

Funding Method: Entry Age Normal Actuarial Cost Method.

Assets: Five year Smoothing.

Annual Investment Yield: 7.125% compounded annually. Salary Scale: 4.0% compounded annually. Increase in Benefits: 2.5% per year after retirement. Mortality: Pre- and Post-Retirement:

All using RP-2000 Generational, Scale BB with

Female: 100% Annuitant White Collar

Male: 10% Annuitant White Collar/90% Annuitant Blue collar

Post-Disablement:

Female: 60% RP2000 Disabled Female set forward two years/40% Annuitant White Collar with no

setback, no projection scale.

Male: 60% RP2000 Disabled Male setback four years/40% Annuitant White Collar with no setback, no

projection scale.

Probability of Death: Line of Duty: 15%; Non-Line of Duty: 85% Turnover: No vested refunds or disability recoveries.

	Probability of	Probability of
Age	Disability	Withdrawal
25-35	0.002387-0.003867	0.060
40	0.005733	0.020
55	0.0306	0.000

Probability of Disability: Line of Duty: 45%; Non-Line of Duty: 55%

Percent Married: 80% of active participants married with spouses three years younger. Inactives and DROP participant

status is same as reported tax status.

Retirement:

The greater of the rates below:

Service	Annual Rate
25 YOS	0.50
26-29 YOS	0.25
30 YOS	1.00
Age	Annual Rate
45-49	0.05
50-56	0.10
57	0.50
58	0.70
59	0.90
60	

FINAL COMPONENTS OF PENSION EXPENSE FISCAL YEAR SEPTEMBER 30, 2017

	Net Pension Liability	Deferred Inflows	Deferred Outflows	Pension Expense
Beginning balance	\$ 48,444,716	\$ -	\$ 14,830,115	\$ -
Employer and State Contributions made after 09/30/2016	-	-	4,873,467	-
Total Pension Liability Factors:				
Service Cost	912,596	-	-	912,596
Interest	8,876,315	-	-	8,876,315
Changes in benefit terms	-	-	-	-
Differences between Expected and Actual Experience				
with regard to economic or demographic assumptions	-	-	-	-
Current year amortization of experience difference	-	-	(293,547)	293,547
Change in assumptions about future economic or				
demographic factors or other inputs	-	-	-	-
Current year amortization of change in assumptions	-	-	(2,487,826)	2,487,826
Benefit Payments, including Refunds of Employee				
Contributions	(7,539,629)	-	-	-
Net change	2,249,282	-	2,092,094	12,570,284
Plan Fiduciary Net Position:				
Contributions - Employer	3,830,736	_	(3,830,736)	-
Contributions - State	533,483	_	(533,483)	-
Contributions - Employee	227,357	_	-	(227,357)
Projected Net Investment Income	5,978,658	_	-	(5,978,658)
Difference between projected and actual earnings on				, , ,
Pension Plan investments	2,673,018	-	-	-
Current year amortization	=	-	(957,350)	957,350
Benefit Payments, including Refunds of Employee			` , ,	
Contributions	(7,539,629)	_	-	-
Administrative Expenses	(93,853)	-	-	93,853
Other: Change in reserve accounts	34,783	-	-	(34,783)
Net change	5,644,553	-	(5,321,569)	(5,189,595)
Ending Balance	\$ 45,049,445	\$ -	\$ 11,600,640	\$ 7,380,689

PRELIMINARY COMPONENTS OF PENSION EXPENSE FISCAL YEAR SEPTEMBER 30, 2018

	Net Pension Liability	Deferred Inflows	Deferred Outflows	Pension Expense
Beginning balance	\$ 45,049,445	\$ -	\$ 11,600,640	\$ -
Employer and State Contributions made after 09/30/2017	-	-	TBD*	-
Total Pension Liability Factors:				
Service Cost	761,793	-	-	761,793
Interest	8,977,910	-	-	8,977,910
Changes in benefit terms	-	-	-	-
Contributions - Buy Back	41,367	-	-	41,367
Differences between Expected and Actual Experience				
with regard to economic or demographic assumptions	(2,653,681)	2,653,681	-	-
Current year amortization of experience difference	-	(884,561)	(293,547)	(591,014)
Change in assumptions about future economic or				
demographic factors or other inputs	-	-	-	-
Current year amortization of change in assumptions	-	-	(2,487,826)	2,487,826
Benefit Payments, including Refunds of Employee				
Contributions	(8,755,072)	-	-	-
Net change	(1,627,683)	1,769,120	(2,781,373)	11,677,882
Plan Fiduciary Net Position:				
Contributions - Employer	4,331,190	-	(4,331,190)	-
Contributions - State	542,277	-	(542,277)	-
Contributions - Employee	218,457	=	=	(218,457)
Contributions - Buy Back	41,367	=	-	(41,367)
Projected Net Investment Income	5,975,880	-	-	(5,975,880)
Difference between projected and actual earnings on				, , , , ,
Pension Plan investments	5,638,164	5,638,164	-	-
Current year amortization	-	(1,127,632)	(957,352)	(170,280)
Benefit Payments, including Refunds of Employee		, , , , ,	, ,	, ,
Contributions	(8,755,072)	=	-	-
Administrative Expenses	(115,371)	=	-	115,371
Other: Change in reserve accounts	393,503	-	_	(393,503)
Net change	8,270,395	4,510,532	(5,830,819)	(6,684,116)
Ending Balance	\$ 35,151,367	\$ 6,279,652	TBD	\$ 4,993,766

^{*} Employer and State Contributions subsequent to the measurement date made after September 30, 2017 but made on or before September 30, 2018 need to be added.

AMORTIZATION SCHEDULE - INVESTMENTS

Increase (Decrease) in Pension Expense Arising from the Recognition of the of Differences Between Projected and Actual Earnings on Pension Plan Investments

	Differences B	etween																		
Plan Year	Projected and	Actual	Recognition																	
Ending	Earning	gs	Period (Years)	2017	2018		2019	2020	2021	2022	2023		2024		2025		2026		2027	
2016	\$ (2,5	05,006)	5	\$ 957,350	\$ 957,352	\$	957,350	\$ 1,131,866	\$ (541,562)	\$ -	\$	- \$		-	\$	- \$		- \$		-
2017	\$ (5,6	38,164)	5	\$ -	\$(1,127,632)	\$(1,127,633)	\$(1,127,633)	\$(1,127,633)	\$(1,127,633)	\$	- \$		-	\$	- \$		- \$		-
Net Increas	e (Decrease) in	Pension	Expense	\$ 957,350	\$ (170,280)	\$	(170,283)	\$ 4,233	\$(1,669,195)	\$(1,127,633)	\$ -	- \$		-	\$	- \$		- \$		_

AMORTIZATION SCHEDULE - CHANGES OF ASSUMPTIONS

Increase (Decrease) in Pension Expense Arising from the Recognition of the Effects of Changes of Assumptions

Plan Year Ending	Changes of Assumptions	Recognition Period (Years)	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	
2016	\$ 3,840,455	4	\$ 2,487,826	\$ 2,487,826	\$ 1,352,629	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	-
Net Increase	e (Decrease) in Pensior	n Expense	\$ 2,487,826	\$ 2,487,826	\$ 1,352,629	\$	- \$	- \$	- \$	- \$	- \$	- \$	- \$	_

AMORITZATION SCHEDULE - EXPERIENCE

Increase (Decrease) in Pension Expense Arising from the Recognition of the Effects of Differences between Expected and Actual Experience

Plan Year Ending	Exp	erences Between ected and Actual Experience	Recognition Period (Years)		2017		2018	2019	2020		2021			2022		2023		20	24	2025		2026			2027	
2016 2017	\$ \$	381,712 (2,653,681)	4 3	\$ \$	_, _,	\$ \$	293,547 (884,561)	88,165 (884,560)	- (884,560)	\$ \$			\$ \$		- -	\$ \$	-	-		\$	- ; - ;	\$ \$	-	Φ		-
Net Increas	e (Dec	crease) in Pension	Expense	\$	293,547	\$	(591,014)	\$ (796,395)	\$ (884,560)	\$		_	\$		-	\$	_	\$		\$ 	- :	\$	-	\$		_