

One East Broward Blvd. Suite 505 Ft. Lauderdale, FL 33301-1804 954.527.1616 phone 954.525.0083 fax www.gabrielroeder.com

August 12, 2016

Ms. Patti McLauchlin Administrator, City of Key West Employee's Retirement Plan City of Key West 3102 Flagler Avenue Key West, Florida 33040

Re: Retirement Plan for Employees of the City of Key West Projection Actuarial Valuation

Dear Patti:

As requested, we are pleased to enclose ten (10) copies of the October 1, 2015 Projection Actuarial Valuation Report for the Retirement Plan for Employees of the City of Key West.

We appreciate the opportunity to work with the Board on this important project and look forward to presenting the key financial results of our Report at an upcoming Board Meeting. Please let us know the date and time of the Board Meeting.

Upon approval by the Board, we recommend you provide a copy of our Report to the following State department head:

Mr. Douglas E. Beckendorf, A.S.A. Bureau of Local Retirement Services Division of Retirement Building 8 Post Office Box 9000 Tallahassee, Florida 32315-9000

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

Sincerest regards,

L. J. 4

Lawrence F. Wilson, A.S.A. Senior Consultant and Actuary

Enclosures





RETIREMENT PLAN FOR EMPLOYEES OF THE CITY OF KEY WEST

ACTUARIAL VALUATION AS OF OCTOBER 1, 2015

This Valuation Determines the Annual Contribution for Plan Year October 1, 2016 through September 30, 2017 to Be Paid in Fiscal Year October 1, 2016 to September 30, 2017

August 12, 2016

Gabriel Roeder Smith & Company

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August 12, 2016

General Employees' Retirement Committee c/o Ms. Patti McLauchlin Administrator – General Employees' Pension Fund City of Key West 3102 Flagler Avenue Key West, Florida 33040

Dear Committee Members:

October 1, 2015 Actuarial Valuation

We are pleased to present our October 1, 2015 Projection Actuarial Valuation for the Retirement Plan for Employees of the City of Key West. The purpose of this report is to indicate appropriate contribution levels, comment on the actuarial stability of the Plan and to satisfy State requirements. The Retirement Committee has retained Gabriel, Roeder, Smith & Company (GRS) to prepare an annual actuarial valuation under Section 46.72(a) of the Plan.

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

Retirement Plan Costs

Our Projection Actuarial Valuation develops the required minimum Retirement Plan payment under the Florida Protection of Public Employee Retirement Benefits Act. The minimum payment consists of payment of the annual normal costs including expenses as prescribed by law. **The minimum payment for fiscal year ending September 30, 2017 is \$1,350,154 (11.8%)**. The figure in parentheses is the Plan cost expressed as a percentage of projected covered annual payroll for fiscal year ending September 30, 2017 (\$11,441,982).

This total cost is to be met by member and City contributions. We anticipate member contributions will be **\$686,519 (6.0%)**. The resulting minimum required City contribution is **\$663,635 (5.8%)**.

Changes in Actuarial Assumptions, Methods and Plan Benefits

Plan benefits remain unchanged from the previous valuation. Plan benefits are summarized on Table VIII.

General Employees' Retirement Committee August 12, 2016 Page Two

The mortality assumptions have been updated to the mortality assumptions used by the Florida Retirement System in the July 1, 2015 Actuarial Valuation. The remaining actuarial assumptions and methods remain unchanged from the actuarial assumptions and methods used in the previous Actuarial Valuation and are outlined on Table IX.

Comparison of October 1, 2014 and October 1, 2015 Valuation Results

Table II of our report provides information of a comparative nature. The left columns of the Table indicate the costs as calculated for October 1, 2014. The center columns indicate the costs as calculated for October 1, 2015, prior to the update in actuarial assumptions. The right columns indicate the costs as calculated for October 1, 2015, after the update in actuarial assumptions.

Comparing the left and center columns of Table II shows the effect of Plan experience during the year. The number of active participants <u>increased</u> by approximately 2%. Covered payroll <u>increased</u> by approximately 12%. Total Plan membership <u>increased</u> by approximately 3%. Total normal cost <u>increased</u> both as a dollar amount and as a percentage of covered payroll. The net City minimum funding requirement also <u>increased</u> both as a dollar amount and as a percentage of covered payroll.

Comparing the right and center columns of Table II shows the effect of the update of the actuarial assumptions. Total normal cost <u>decreased</u> both as a dollar amount and as a percentage of covered payroll. The net City minimum funding requirement also <u>decreased</u> both as a dollar amount and as a percentage of covered payroll.

Your Plan continues to have assets in excess of the value of vested accrued benefits, resulting in a Vested Benefit Security Ratio of 118.4% (118.3% prior to the update in actuarial assumptions), which is a decrease from 126.7% as of October 1, 2014. The Vested Benefit Security Ratio is measured on a market value of assets basis.

Plan Experience

Table VI indicates that the Plan experienced an actuarial loss of \$948,743. This suggests actual overall Plan experience was less favorable than expected.

Table XIV (salary, turnover and investment yield) provides figures on recent Plan experience. The salary experience indicates actual salary increases this year averaged approximately 9.2%. Salary experience was the primary source of actuarial loss when compared to the assumed 4.4% average annual increase. Three, five and ten-year average salary increases are 5.8%, 5.1% and 3.7%, respectively.

Employee turnover this year was 80% of the assumed and was generally an additional source of actuarial loss. Three, five and ten-year turnover has averaged 100%, 100% and 120% of assumed turnover, respectively.

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<u>Smoothed actuarial value</u> investment return of 7.7% exceeded the investment return assumption of 7.5%. Smoothed investment return was an offsetting source of actuarial gain during the previous year. Three, five and ten-year average annual <u>smoothed actuarial value</u> investment returns are 8.6%, 6.6% and 7.3%, respectively. One, three, five and ten-year average <u>market value</u> returns are 1.2%, 8.1%, 7.6% and 6.7%, respectively.

Member Census and Financial Data

The Board submitted the Member census data as of October 1, 2015 used for this Actuarial Valuation to us. This information contains name, Social Security number, date of birth, date of hire, October 1, 2015 rate of pay, actual salary paid and Member contributions for the previous year. Dates of termination and retirement are provided where applicable. The Board updated information on inactive Members including retirees, beneficiaries and vested terminees.

We received financial information concerning Plan assets as of September 30, 2015 from the Comprehensive Annual Financial Report (CAFR). We do not audit the Member census data and asset information provided to us. However, we perform certain reasonableness checks and on this basis we believe the information we received is reliable.

Summary

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

The actuarial assumptions used in this Actuarial Valuation are as adopted by the Board of Trustees. The mortality assumptions were updated with this Actuarial Valuation. The remaining economic and demographic actuarial assumptions are based upon the results of an Actuarial Experience Study for the period October 1, 2007 – September 30, 2012. Each assumption represents an estimate of future Plan experience.

If all actuarial assumptions are met and if all future minimum required contributions are paid, Plan assets will be sufficient to pay all Plan benefits. Plan minimum required contributions are determined in compliance with the requirements of the Florida Protection of Public Employee Retirement Benefits Act with normal cost determined as a level percent of covered payroll.

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

The Unfunded Actuarial Present Value of Vested Accrued Benefits and the corresponding Vested Benefit Security Ratio may be appropriate for assessing the sufficiency of Plan assets to meet the

General Employees' Retirement Committee August 12, 2016 Page Four

estimated cost of settling benefit obligations but may not be appropriate for assessing the need for or the amount of future contributions. The Unfunded Actuarial Present Value of Vested Accrued Benefits and the corresponding Vested Benefit Security Ratio are based upon the market value of assets.

The GASB Net Pension Liability and Plan Fiduciary Net Position as a Percentage of Total Pension Liability may not be appropriate for assessing the sufficiency of Plan assets to meet the estimated cost of settling benefit obligations but may be appropriate for assessing the need for or the amount of future contributions. The GASB Net Pension Liability and Plan Fiduciary Net Position as a Percentage of Total Pension Liability are based upon the market value of assets.

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; 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); and changes in Plan provisions or applicable law. Due to the limited scope of the actuary's assignment, the actuary did not perform an analysis of the potential range of such future measurements.

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

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

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

The signing actuaries are independent of the Plan sponsor.

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

Very truly yours,

L.J. Wilson

Lawrence F. Wilson, A.S.A., E.A. Senior Consultant and Actuary

Jennifee Borregard

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

Gabriel Roeder Smith & Company

Summary of Retirement Plan Costs as of October 1, 2015

	Prior Assumptions		Curre Assump	
	Cost	% of	Cost	% of
	Data	Payroll	Data	Payroll
A. Participant Data Summary (Table III)				
1. Active Employees	250	N/A	250	N/A
2. Terminated Vested	13	N/A	13	N/A
3. Receiving Benefits (including DROPs)	143	N/A	143	N/A
4. Annual Payroll of Active Members	\$ 11,339,923	100.0%	\$ 11,339,923	100.0%
5. Projected Annual Payroll of Active Members	\$ 11,441,982	100.9%	\$ 11,441,982	100.9%
B. Total Actuarial Present Value of Future Benefits				
1. Age Retirement Benefits Active Employees	\$ 22,996,565	202.8%	\$ 22,544,546	198.8%
2. Termination Benefits Active Employees	2,564,711	22.6%	2,520,075	22.2%
3. Death Benefits Active Employees	630,134	5.6%	867,434	7.6%
4. Disability Benefits Active Employees	994,586	8.8%	931,005	8.2%
5. Retired or Terminated Vested Participants				
Receiving Benefits (including DROPs)	25,494,176	224.8%	25,550,409	225.3%
6. Terminated Vested Participants Entitled to				
Future Benefits	599,835	5.3%	593,668	5.2%
7. Deceased Participants Whose Beneficiaries				
are Receiving Benefits	1,392,165	12.3%	1,393,410	12.3%
8. Disabled Participants Receiving Benefits	28,607	0.3%	24,674	0.2%
9. Miscellaneous Liability	153,783	1.4%	153,783	1.4%
10. Total Present Value of Future Benefits	\$ 54,854,562	483.7%	\$ 54,579,004	481.3%
C. Assets (Table V)				
1. Smoothed Actuarial Value of Assets	\$ 47,501,146	418.9%	\$ 47,501,146	418.9%
2. Market Value of Assets	\$ 47,155,911	415.8%	\$ 47,155,911	415.8%
D. Actuarial Present Value of Future Normal	ф – Э. Э. Э. Э. А. I. С	C A D D /	¢ 7.077.050	60 40/
Costs (B C.1.)	\$ 7,353,416	64.8%	\$ 7,077,858	62.4%
E. Actuarial Present Value of Future Salaries	\$ 71,874,461	633.8%	\$ 71,312,187	628.9%
F. Normal Cost Accrual Rate (D. / E.)	10.23%	N/A	9.93%	N/A
G. Normal Cost (A.4. x F., but not less than 0)	\$ 1,160,074	10.2%	\$ 1,126,054	9.9%

Summary of Retirement Plan Costs as of October 1, 2015

	Prio: Assumpt		Current Assumptions			
	Cost	% of	Cost	% of		
H. Minimum Required Contribution	Data	Payroll	Data	Payroll		
n. Winning Required Controlation						
1. Normal Cost	\$ 1,160,074	10.2%	\$ 1,126,054	9.9%		
2. Expected Administrative Expenses	163,130	1.4%	163,130	1.4%		
3. Interest Adjustment	47,827	0.4%	46,597	0.4%		
4. Total Minimum Required Contribution	\$ 1,371,031	12.1%	\$ 1,335,781	11.8%		
I. Expected Payroll of Active Members for 2016 - 2017 Plan Y						
(\$11,339,923 x 1.009)	\$ 11,441,982	100.9%	\$ 11,441,982	100.9%		
 J. Contribution Sources for Fiscal Year Ending September 30 (% of expected payroll of Active Members) 	, 2017					
1. City	\$ 697,961	6.1%	\$ 663,635	5.8%		
2. Member	686,519	6.0%	686,519	6.0%		
3. Total Minimum Required Contribution	\$ 1,384,480	12.1%	\$ 1,350,154	11.8%		
K. Actuarial Present Value of Vested Accrued Benefits						
1. Retired, Terminated Vested, Beneficiaries						
and Disabled Receiving Benefits (including DROPs) 2. Terminated Vested Participants Entitled to	\$ 26,914,948	237.3%	\$ 26,968,493	237.8%		
Future Benefits and Miscellaneous	753,618	6.6%	747,451	6.6%		
3. Active Participants Entitled to Future Benefits	12,180,867	107.4%	12,119,358	106.9%		
4. Total Actuarial Present Value of Vested						
Accrued Benefits	\$ 39,849,433	351.4%	\$ 39,835,302	351.3%		
L. Unfunded Actuarial Present Value of Vested						
Accrued Benefits (K.4 C.2., not less than zero)	\$ 0	0.0%	\$ 0	0.0%		
M. Vested Benefit Security Ratio (C.2. \div K.4.)	118.3%	N/A	118.4%	N/A		

Comparison of Cost Data of October 1, 2014 and October 1, 2015 Valuations

	Octobe	r 1, 2014	Prior Assumptions October 1, 2015			ssumptions r 1, 2015
	 Cost Data	% of Annual Compensation	Cost Data	% of Annual Compensation	 Cost Data	% of Annual Compensation
A. Members		^				
1. Active Members	245	N/A	250	N/A	250	N/A
2. Terminated vested Members	12	N/A	13	N/A	13	N/A
3. Receiving benefits (including DROPs)	136	N/A	143	N/A	143	N/A
4. Annual payroll of active Members	\$ 10,127,588	100.0%	\$ 11,339,923	100.0%	\$ 11,339,923	100.0%
5. Projected annual payroll of active Members	\$ 10,127,588	100.0%	\$ 11,441,982	100.9%	\$ 11,441,982	100.9%
B. Present Value of Future Benefits	\$ 51,072,485	504.3%	\$ 54,854,562	483.7%	\$ 54,579,004	481.3%
C. Total Entry Age Normal Actuarial						
Actuarial Accrued Liability *	\$ 43,878,287	433.3%	\$ 46,849,959	413.1%	\$ 46,751,976	412.3%
D. Smoothed Actuarial Value of Assets	\$ 45,337,795	447.7%	\$ 47,501,146	418.9%	\$ 47,501,146	418.9%
E. Unfunded Entry Age Normal						
Actuarial Accrued Liability *	\$ (1,459,508)	(14.4%)	\$ (651,187)	(5.7%)	\$ (749,170)	(6.6%)
F. Total Normal Costs (including expenses)						
1. Aggregate Cost Method	\$ 1,044,499	10.3%	\$ 1,323,204	11.7%	\$ 1,289,184	11.4%
2. Entry Age Normal *	\$ 1,296,171	12.8%	\$ 1,449,770	12.8%	\$ 1,432,370	12.6%
G. City Minimum Funding Payment(% of projected payroll)	\$ 474,597	4.7%	\$ 697,961	6.1%	\$ 663,635	5.8%
H. Actuarial Gain / (Loss)	\$ 1,171,631	11.6%	\$ (948,743)	(8.4%)	\$ (948,743)	(8.4%)
I. Unfunded Actuarial Present Value						
of Vested Accrued Benefits	\$ 0	0.0%	\$ 0	0.0%	\$ 0	0.0%
J. Vested Benefit Security Ratio	126.7%	N/A	118.3%	N/A	118.4%	N/A
* For purposes of GASP 67 and 68 only						

* For purposes of GASB 67 and 68 only

<u>Characteristics of Members in</u> <u>Actuarial Valuation as of October 1, 2015</u>

A. Active Plan Members Summary

B.

C.

1. Active Members fully vested	65
2. Active Members partially vested	74
3. Active Members non-vested	111
4. Total active Members	 250
5. Annual rate of pay of active Members	\$ 11,339,923
Retired and Terminated Vested Member Summary	
1. Retired or terminated vested Members receiving benefits	
(including DROPs)	113
2. Terminated vested Members entitled to future benefits	13
3. Deceased participants whose beneficiaries are receiving benefits	29
4. Disabled Members receiving benefits	1
Projected Annual Retirement Benefits	
1. Retired or terminated vested receiving benefits (including DROPs)	\$ 2,416,641
2. Terminated vested Members entitled to future benefits	\$ 102,460
3. Beneficiaries of deceased Members receiving benefits	\$ 141,256
4. Disabled Members receiving benefits	\$ 3,633

Table IV

Retirement Plan for Employees of the City of Key West

Statement of Assets as of October 1, 2015

Assets	N	larket Value
A. <u>Cash</u>	\$	824,855
B. <u>General Investments</u>		
1. Corporate Bonds		10,683,300
2. Templeton Global Bond Mutual Fund		2,171,312
3. U.S. Government Securities		1,313,028
4. Equities		26,062,452
5. Obligations- Municipal Obligations- Collateralized Mortage Obligations		555,687 0
6. American Core Realty Fund LLC		5,519,795
C. Accrued Interest		111,791
D. Accounts Payable		86,309
E. <u>Benefits / Distributions Payable</u>		0
F. <u>Pending Trades</u>		0
G. <u>Total Plan Assets</u> (A. + B. + C D E F.)	\$	47,155,911

Retirement Plan for Employees of the City of Key West						
Reconciliation of Plan Assets ¹						
A. Market Value of Assets as of October 1, 2014	\$ 47,883,789					
B. <u>Receipts During Period</u>						
1. Contributions	¢ 709.052					
(a) Employee (b) City	\$ 708,253 842.057					
(b) City(c) Total	<u>842,957</u> \$ 1,551,210					
2. Investment income	φ 1,551,210					
(a) Dividends, interest and other	\$ 1,239,908					
(b) Investment expenses	(225,909)					
(c) Net investment income	\$ 1,013,999					
3. Realized and unrealized appreciation	(458,195)					
4. Total receipts during period	\$ 2,107,014					
C. Disbursements During Period						
1. Pension benefit payments and contribution refunds	\$ 2,292,350					
2. DROP distributions	379,412					
3. Administrative expenses	163,130					
4. Total disbursements during period	\$ 2,834,892					
D. Market Value of Assets as of September 30, 2015	\$ 47,155,911					
E. <u>Reconciliation of DROP Account Balances</u>						
 DROP account balances as of October 1, 2014 Benefit payments into DROP accounts during year Investment gains / (losses) during year ² Distributions from DROP accounts during year DROP account balances as of October 1, 2015 	\$ 741,602 262,056 13,589 (379,412) \$ 637,835					

Table V

¹ As reported in the Comprehensive Annual Financial Report (CAFR).

² Based on actual fund performance.

Development of Smoothed Actuarial Value of Assets as of September 30

		2014	2015	2016	2017	2018	2019
A. Preliminary smoothed actuarial	value from prior year	42,290,953	45,337,795	47,501,146			
B. Market value end of year		47,883,789	47,155,911				
C. Market value beginning of year		44,281,241	47,883,789	47,155,911			
D. Non-investment net cash flow		(828,454)	(1,283,682)				
E. Investment return							
1. Total market value return: H	3 C D.	4,431,002	555,804				
2. Amount for immediate reco	•	3,290,026	3,543,146				
3. Amount for phased-in recog	gnition: E.1 E.2.	1,140,976	(2,987,342)				
F. Phased-in recognition of invest	ment return						
1. Current year: 20% of E.3.		228,195	(597,468)				
2. First prior year		422,299	228,195	(597,468)			
3. Second prior year		515,456	422,299	228,195	(597,468)		
4. Third prior year		(664,593)	515,456	422,299	228,195	(597,468)	
5. Fourth prior year	_	83,913	(664,595)	515,455	422,299	228,196	(597,470)
6. Total phased-in recognition	of investment return	585,270	(96,113)	568,481	53,026	(369,272)	(597,470)
G. Total smoothed actuarial value	end of year						
1. Preliminary total smoothed	actuarial value end of year:						
A. + D. + E.2. + F.6.		45,337,795	47,501,146				
2. Upper corridor limit: 120%	of B.	57,460,547	56,587,093				
3. Lower corridor limit: 80% of	of B.	38,307,031	37,724,729				
4. Total smoothed actuarial va	lue end of year:						
G.1., not more than G.2., no	or less than G.3.	45,337,795	47,501,146				
H. Difference between market valu	e and smoothed actuarial v	2,545,994	(345,235)				
I. Smoothed actuarial value rate o	f return	9.3%	7.7%				
J. Market value rate of return		10.1%	1.2%				

Actuarial Gain / (Loss) for Plan Year Ended September 30, 2015

A. Derivation of Actuarial Gain / (Loss)

 Actuarial present value of projected payroll (prior to change in assumptions) Normal cost for benefits as a percentage of payroll 	\$ 71,874,461
(a) Prior valuation	8.91%
(b) Current valuation (prior to change in assumptions)	10.23%
(c) Difference (a) - (b)	 (1.32%)
3. Actuarial gain / (loss): (1. x 2.c)	\$ (948,743)
B. <u>Approximate Portion of Gain / (Loss)</u>	
due to Investments	
1. Smoothed actuarial value of assets previous year	\$ 45,337,795
2. Contributions during year	1,551,210
3. Benefits and administrative expenses during year	2,834,892
4. Expected net appreciation for period	3,352,197
5. Expected smoothed actuarial value of assets current year:	
(1. + 2 3. + 4.)	\$ 47,406,310
6. Smoothed actual actuarial value of assets current year	\$ 47,501,146
7. Approximate gain / (loss) due to investments: (6 5.)	\$ 94,836
C. Approximate Portion of Gain / (Loss)	
from Other Sources: A B.	\$ (1,043,579)

D. <u>Covered Payroll History</u>

Year Ended		Pensionable Payroll	Annual Increase			
September 30, 2015	\$	11,339,923	12.0%			
September 30, 2013	ֆ \$	10,127,588	2.0%			
September 30, 2014	\$ \$	9,932,184	(0.1%)			
September 30, 2013	\$	9,945,221	3.5%			
September 30, 2012	\$	9,608,967	(3.3%)			
September 30, 2010	\$	9,938,506	(3.3%)			
September 30, 2009	\$	10,277,176	(6.4%)			
September 30, 2008	\$	10,982,201	(6.2%)			
September 30, 2007	\$	11,705,277	7.6%			
September 30, 2006	\$	10,882,478	4.8%			
September 30, 2005	\$	10,387,449	N/A			
Ten-Year Average Annual I	ncrease		0.9%			

Accounting Disclosure Exhibit

	10/01/2014	Prior Assumptions 10/01/2015	Current Assumptions 10/01/2015
I. <u>Number of Plan Members</u>			
 Retirees and beneficiaries receiving benefits Terminated plan members due deferred benefits 	136 12	143 13	143 13
3. Active plan members	245	250	250
4. Total plan members	393	406	406
II. <u>Financial Accounting Standards Board Allocation</u> <u>As of October 1, 2015</u>			
 A. <u>Statement of Accumulated Plan Benefits</u> 1. Actuarial present value of accumulated veated plan benefits 			
a. Participants currently receiving benefits	\$ 26,043,013	\$ 26,914,948	\$ 26,968,493
b. Other participants	11,737,165	12,934,485	12,866,809
c. Total	\$ 37,780,178	\$ 39,849,433	\$ 39,835,302
2. Actuarial present value of accumulated	• • • • • • • •	• • • • • • • •	• • • • • • • • • •
non-vested plan benefits	\$ 1,523,622	\$ 1,632,129	\$ 1,620,885
3. Total actuarial present value of accumulated plan benefits	\$ 39,303,800	\$ 41,481,562	\$ 41,456,187
 B. <u>Statement of Change in Accumulated Plan Benefits</u> 1. Actuarial present value of accumulated plan benefits 			
as of October 1, 2014 2. Increase (decrease) during year attributable to:			\$ 39,303,800
a. Plan amendment			\$ 0
b. Change in actuarial assumptions			(25,375)
c. Benefits paid including contribution refundsd. Other, including benefits accumulated, increase			(2,671,762)
for interest due to decrease in the discount period			4,849,524
e. Net increase			\$ 2,152,387
3. Actuarial present value of accumulated plan benefits			
as of October 1, 2015			\$ 41,456,187
C. Significant Matters Affecting Calculations			
1. Assumed rate of return used in determining actuarial present values			7.5%
2. Change in plan provisions			None
3. Change in actuarial assumptions		See 7	able IX, Item K.

Accounting Disclosure Exhibit

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

II. <u>INE</u>	Measurement date		9/30/2014		9/30/2015	(Projected 9/30/2016*
A.	Total Pension Liability (TPL)						
	Service Cost	\$	1,134,108	\$	1,154,040	\$	1,269,240
	Interest		3,149,825		3,277,233		3,498,030
	Benefit Changes		0		0		0
	Difference Between Actual and Expected Experience		(795,460)		(189,114)		1,249,791
	Assumption Changes		1,479,338		0		(97,983)
	Benefit Payments, including Refunds of Member Contributions		(2,261,393)		(2,671,762)		(2,761,641)
	Net Change in Total Pension Liability	\$	2,706,418	\$	1,570,397	\$	3,157,437
	Total Pension Liability (TPL) - (beginning of year)		41,323,353		44,029,771		45,600,168
	Total Pension Liability (TPL) - (end of year)	\$	44,029,771	\$	45,600,168	\$	48,757,605
B.	Plan Fiduciary Net Position						
D.	Contributions - City	\$	919,864	\$	842,957	\$	474,597
	Contributions - Member	Ψ	655,206	Ψ	708,253	Ψ	680,395
	Net Investment Income		4,431,002		555,804		3,470,327
	Benefit Payments, including Refunds of Member Contributions		(2,261,393)		(2,671,762)		(2,761,641)
	Administrative Expenses		(142,131)		(163,130)		(163,130)
	Other		0		0		0
	Net Change in Plan Fiduciary Net Position	\$	3,602,548	\$	(727,878)	\$	1,700,548
	Plan Fiduciary Net Position - (beginning of year)		44,281,241		47,883,789		47,155,911
	Plan Fiduciary Net Position - (end of year)	\$	47,883,789	\$	47,155,911	\$	48,856,459
C.	Net Pension Liability (NPL) - (end of year): (A) - (B)	\$	(3,854,018)	\$	(1,555,743)	\$	(98,854)
D.	Plan Fiduciary Net Position as a Percentage of TPL: (B) / (A)		108.75 %		103.41 %		100.20 %
E.	Covered Employee Payroll **	\$	10,500,212	\$	11,773,303	\$	11,339,923
F.	NPL as a Percentage of Covered Employee Payroll: (C) / (E)		(36.70)%		(13.21)%		(0.87)%
G.	Notes to Schedule:						
	Valuation Date		10/01/2013		10/1/2014		10/01/2015
	Reporting Date (GASB No. 68)		9/30/2015		9/30/2016		9/30/2017

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

No benefit changes during the year.

See Table VII, Item V. for assumption changes during the year.

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

** Reported payroll on which contributions to the Plan are based as provided under GASB Statement No. 82.

Accounting Disclosure Exhibit

IV. Schedule of Employer Contributions (GASB No. 67 & No. 68)¹

Fiscal Year	Actuarially Determined	Actual	Contribution Deficiency	Deficiency Covered		
End (9/30)	Contribution	Contribution	(Excess)	Payroll ²	Covered Payroll	
2006 2007 2008 2009	\$ 1,136,922 961,724 893,546 745,087	\$ 1,318,334 1,250,735 1,331,364 1,265,870	\$ (181,412) (289,011) (437,818) (520,783)	<pre>\$ 10,387,449 10,882,478 11,705,277 10,982,201</pre>	12.69% 11.49% 11.37% 11.53%	
2010	640,444	1,163,828	(523,384)	10,277,176	11.32%	
2011 2012 2013 2014 2015	684,153 842,538 987,241 635,941 474,597	1,133,177 879,008 987,241 919,864 842,957	(449,024) (36,470) 0 (283,923) (368,360)	9,938,506 9,608,967 9,945,221 10,500,212 11,773,303	11.40% 9.15% 9.93% 8.76% 7.16%	
2016 ³	474,597	474,597	0	11,339,923	4.19%	

¹ Per City CAFR prior to September 30, 2014

² Reported payroll on which contributions to the Plan are based as provided under GASB Statement No. 82

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

Accounting Disclosure Exhibit

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

Valuation Date:	Actuarially determined contributions are calculated as of October 1st -
	two year(s) prior the fiscal year end in which contributions are reported.

Methods and Assumptions Used to Determine Contribution Rates:

Actuarial Cost Method	Aggregate
Amortization Method	N/A
Amortization Period	N/A
Asset Valuation Method	5-year smoothed market
Inflation	3.0%
Salary Increases	3.75% - 6.00%
Investment Rate of Return	7.5%
Payroll Growth Assumption	None.
Retirement Age	Experience-based table of rates that are specific to the type of eligibility condition
Mortality	For healthy participants, RP-2000 Combined Healthy Participant Mortality Tables, separate rates for males and females, with fully generational mortality improvements projected with Scale BB to each future decrement date.
	For disabled participants, RP-2000 Disabled Mortality Tables, with separate rates for males and females, with fully generational mortality improvements projected with Scale BB to each future decrement date.
Cost-of-Living Increases	None.

Other Information:

Benefit Changes

2005: Final Monthly Compensation updated to average of best thirty-six (36) consecutive months; multiplier updated to 2.5% and members receiving benefits will receive a 2.0% ad hoc COLA.

Assumption Changes

2015: Mortality assumption updated - firs affects required contribution for fiscal year ending September 30, 2017. 2013: Investment return assumption updated to 7.5% compounded annually, net of investment expenses; withdrawal, salary increase and retirement rates updated. 2011: Funding method updated to Aggregate Actuarial Cost Method; mortality, withdrawal, salary increase and retirement rates updated.

Accounting Disclosure Exhibit

VI. Discount Rate (GASB No. 67 & No. 68)

A discount rate of 7.5% was used to measure the TPL effective September 30, 2015. This discount rate was based on the expected rate of return on Plan investments of 7.5%. The projection of cash flows used to determine this discount rate assumed member contributions will be made at the current member contribution rate and employer contributions will be made at rates equal to the difference between actuarially determined current contribution rates and the member contribution rate. Based on these assumptions, the pension Plan's fiduciary net position was projected to be available to make all projected future expected benefit payments of current Plan members. Therefore, the long-term expected rate of return on Plan investments was applied to all periods of projected benefit payments to determine the TPL.

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

Measurement date: September 30, 2015

		Current				
	1% Decrease		Discount Rate		1% Increase	
Discount Rate		6.5%		7.5%		8.5%
NPL	\$	3,574,813	\$	(1,555,743)	\$	(5,847,465)

Measurement date: September 30, 2016 *

	Current							
	1% Decrease		Discount Rate		1% Increase			
Discount Rate		6.5%		7.5%		8.5%		
NPL	\$	5,398,825	\$	(98,854)	\$	(4,699,190)		

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

Accounting Disclosure Exhibit

VIII. <u>Pension Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to</u> <u>Pensions - Reporting Date (GASB No. 68)</u>

Pension Expense for Fiscal Year En	led September 30, 2016	\$	815,352
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Summary of Outstanding Deferred Inflows and Outflows of Resources as of September 30, 2016

	Deferred Outflows of Resources	Deferred Inflows of Resources
Differences between actual and expected experience on liabilities	0	613,733
Changes of assumptions or other inputs	862,948	0
Net difference between projected and actual earnings on pension plan investments	1,705,288	0
Total	\$ 2,568,236	\$ 613,733
Projected Deferred Outflows for City Contributions to Pa	Pagganizad in	

Projected Deferred Outflows for City Contributions to Be Recognized in Pension Expense for Fiscal Year Ending September 30, 2017 \$ 474,597

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

Year Ending 30-Sep	Amount
2017	\$ 472,348
2018	472,348
2019	443,855
2020	565,952
2021	0
Thereafter	0

Accounting Disclosure Exhibit

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

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

Measurement Date	9/30/2014	9/30/2015	Projected 9/30/2016 *
Service Cost	\$ 1,134,108	\$ 1,154,040	\$ 1,269,240
Interest on Total Pension Liability	3,149,825	3,277,233	3,498,030
Current-Period Benefit Changes	0	0	0
Contributions - Member	(655,206)	(708,253)	(680,395)
Projected Earnings on Plan Investments	(3,290,026)	(3,543,146)	(3,470,327)
Administrative Expenses	142,131	163,130	163,130
Other Changes in Plan Fiduciary Net Position	0	0	0
Recognition of Beginning Deferred Outflows / (Inflows) due to Liabilities	142,474	103,075	348,141
Recognition of Beginning Deferred Outflows / (Inflows) due to Assets	(228,195)	369,273	369,273
Total Pension Expense	\$ 395,111	\$ 815,352	\$ 1,497,092

* Projected - actual amounts will be available after measurement date

Accounting Disclosure Exhibit

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

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

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

			Initial Recognition	Remaining Recognition Period as of	Recog Amou	nition Int for	Balance as of	
 Established	Initial l	Balance	Period	9/30/2015	2014	2015	9/30/2015	
2013 / 2014 2014 / 2015	\$	0 0	4.8 4.8	2.8 3.8	\$	0 0	\$	0
				TOTAL	\$	0	\$	0

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

Established	Initial Balance		Remaining Initial Recognition Recognition Period as of ial Balance Period 9/30/2015				Balance as of 9/30/2015	
2013 / 2014	\$	(795,460)	4.8	2.8	\$	(165,721)	\$ (464,018)	
2014 / 2015		(189,114)	4.8	3.8 TOTAL	\$	(39,399) (205,120)	\$ (149,715) (613,733)	

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

				Remaining			
			Initial	Recognition	Re	cognition	
			Recognition	Period as of	Ar	nount for	Balance as of
 Established	Ini	tial Balance	Period	9/30/2015	20	14 / 2015	9/30/2015
2013 / 2014	\$	1,479,338	4.8	2.8	\$	308,195	\$ 862,948
2014 / 2015		0	4.8	3.8		0	0
				TOTAL	\$	308,195	\$ 862,948

Accounting Disclosure Exhibit

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

X. <u>Recognition of Deferred Outflows and (Inflows) due to Liabilities - Measurement Date (GASB No. 68) (Cont'd)</u> Recognition of Deferred (Inflows) due to Changes of Assumptions or Other Inputs

			Initial Recognition	Remaining Recognition Period as of	Recogr Amount f		Balan	ce as of
Established	Initial Ba	alance	Period	9/30/2015	/ 20	15	9/30	/2015
2013 / 2014 2014 / 2015	\$	0 0	4.8 4.8	2.8 3.8	\$	0 0	\$	0 0
				TOTAL	\$	0	\$	0

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

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

Established	Initial Balance	Initial Recognition Period	Remaining Recognition Period as of 9/30/2015	cognition unt for 2014 / 2015	Balance as of 9/30/2015
2013 / 2014 2014 / 2015	\$ (1,140,976) 2,987,342	5 5	3 4	\$ (228,195) 597,468	\$ (684,586) 2,389,874
			TOTAL	\$ 369,273	\$ 1,705,288

Outline of Principal Provisions of the Retirement Plan

A. Effective Date:

January 1, 1973, as amended through Ordinance 09-04.

B. Eligibility Requirements:

Full-time employee, other than police officers and firefighters.

C. Credited Service:

Service in completed calendar months from date of employment to the earlier of date of retirement or termination.

D. Earnable Compensation:

Base salary paid including overtime pay *pick-up* contributions, but excluding bonuses, expense allowances, unused accumulated leave time, etc.

E. Final Monthly Compensation (FMC):

Average monthly rate of earnable compensation during the best thirty-six (36) consecutive months out of the last one hundred twenty (120) months preceding date of retirement (or termination).

F. Employee Contributions:

6% of basic annual compensation.

G. Normal Retirement:

- (1) <u>Eligibility:</u> The earlier of attainment of age 60 and completion of 10 years of credited service or completion of 20 years of credited service, irrespective of age. Employees participating in the plan prior to March 1, 1993 may retire fully vested at age 60 with 5 years of credited service. Employees hired on or after March 1, 1993 may retire at age 60 with 5 years of credited service but less than 10 years of credited service with reduced benefits.
- (2) <u>Benefit:</u> 2.5% times FMC times credited service. 1.25% times FMC times credited service for employees hired on or after March 1, 1993 with less than 10 years of credited service.

Outline of Principal Provisions of the Retirement Plan

H. Early Retirement:

- (1) <u>Eligibility</u>: Attainment of age 55 and completion of 10 years credited service.
- (2) <u>Benefit:</u> Benefit accrued to date of retirement, reduced by 1/15th for each year prior to normal retirement to reflect commencement of benefit at an earlier age.

I. <u>Deferred Retirement:</u>

- (1) <u>Eligibility:</u> Continued employment beyond normal retirement date.
- (2) <u>Benefit</u>: Benefit accrued at deferred retirement date based on credited service and FMC at deferred retirement date.

J. Disability Retirement:

- (1) <u>Eligibility:</u> Total and permanent qualifying disability. If non-service incurred, requires completion of ten (10) years of credited service.
- (2) <u>Benefit:</u> Benefit (payable for ten (10) years certain and life thereafter or prior recovery)

Incurred in Line-of-Duty: Greatest of (a), (b) or (c), where

- (a) is 42% of FMC as of date of disability,
- (b) is the benefit supported by the present value of accrued benefit as of date of disability deferred to normal retirement date and
- (c) is the benefit supported by eighteen (18) times FMC.Benefit under (c) shall not exceed 60% of anticipated retirement benefit.

Not Incurred in Line-of-Duty: Greater of (a) or (b), where

- (a) is the benefit supported by the present value of accrued benefit as of date of disability deferred to normal retirement date and
- (b) is the benefit supported by eighteen (18) times FMC.

Outline of Principal Provisions of the Retirement Plan

K. Death Benefit:

Benefit to beneficiary (payable for ten (10) years certain and life thereafter) which can be supported by the greater of A or B, where A is the single-sum value of the accrued benefit at date of death deferred to normal retirement date and B is the lesser of (i) and (ii), where (i) is 18 times FMC at date of death and (ii) is 100 times the anticipated monthly normal retirement benefit.

L. Vested Benefit Upon Termination:

(1) <u>Eligibility:</u>

Vesting schedule with no vesting until completion of 5 years of credited service (50%) increasing by 10% per year until 100% vesting upon completion of 10 years of credited service.

- (2) <u>Benefit at payable at Normal Retirement Date:</u> Benefit equal to accrued benefit based upon credited service and FMC at date of termination times vested percentage.
- M. Cash Termination Benefit:
 - (1) Accumulated employee contributions without interest for non-vested employees.
 - (2) Accumulated employee contributions without interest in lieu of deferred vested benefit for vested employees.
- N. Normal Form of Retirement Income:

Monthly life annuity with guaranteed return of employee contributions.

Outline of Principal Provisions of the Retirement Plan

O. Deferred Retirement Option Plan (DROP):

- (1) Eligibility: Upon meeting the eligibility for normal or early retirement.
- (2) Participation in the DROP must be exercised within the first thirty (30) years of employment; provided, however, that participation in the DROP, when combined with participation in the retirement plan as an active member may not exceed thirty (30) years. The maximum period of participation in the DROP is five (5) years.
- (3) An employee's account in the DROP program shall be credited with interest based upon the actual earnings of the retirement fund.
- (4) No payment may be made from the DROP until the employee actually separates from service with the City.
- P. Cost of Living Adjustment (COLA):

Effective January 1, 2006, members receiving benefits received a 2.0% ad hoc COLA.

Q. Changes From Previous Valuation:

None.

Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation

A. Mortality

For healthy male participants, RP 2000 Annuitant Male Mortality Table, with 50% White Collar / 50% Blue Collar Adjustment and fully generational mortality improvements projected to each future decrement date with Scale BB. For healthy female participants, RP 2000 Annuitant Female Mortality Table, with White Collar Adjustment and fully generational mortality improvements projected to each future decrement date with Scale BB.

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

B. Investment Return

7.5%, compounded annually, net of investment expenses.

C. Allowances for Expenses or Contingencies

Previous year's actual administrative expenses added to normal cost.

D. Employee Withdrawal Rates

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

<u>Service</u>	Withdrawal Rates
0-1	22.0%
1-2	22.0%
2-3	16.0%
3-4	16.0%
4-5	10.0%
5-6	10.0%
6-7	9.0%
7-8	9.0%
8-9	8.0%
9-10	8.0%
10+	4.0%

E. Disability Rates

Class (01) Inter-Company disability rates were used with separate rates for males and females. 50% of all disablements are assumed to be service related.

Retirement Plan for Employees of the City of Key West Actuarial Assumptions and Actuarial Cost Methods

Used in the Valuation

F. Marital Assumptions

100% of all active participants are assumed to be married.

Females are assumed to be three years younger than their male spouses.

G. Salary Increase Factors

Current salary was assumed to increase at a rate based on the table below per year until retirement.

<u>Service</u> <u>Sa</u>	lary Increase
0-1	6.00%
1-2	6.00%
2-3	5.00%
3-4	5.00%
4-5	5.00%
5-6	4.75%
6-7	4.75%
7-8	4.50%
8-9	4.25%
9-10	4.00%
10+	3.75%

H. Assumed Retirement Age

Rates of early retirement were used in accordance with the following table.

Age	Retirement Rate
55	15%
56 - 59	5%

Rates of normal retirement were used in accordance with the following table.

Age	Retirement Rate
Less than 55	15%
55 - 59	40%
60 - 61	25%
62 - 64	35%
65 - 74	50%
75 & older	100%

However, all active members on the valuation date are assumed to have a minimum of one year of future service. -28-

Gabriel Roeder Smith & Company

Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation

I. Payroll Growth Assumption

Payroll is assumed to increase at a rate equal to the historical 10-year average (0.9% as of October 1, 2015) - not less than 0.0%.

J. Valuation of Assets

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

K. Actuarial Cost Methods

Normal Retirement, Termination, Death and Disability Benefits: Aggregate

Under this method the excess of the Actuarial Present Value of Projected Benefits of the group included in the valuation, over the sum of the Smoothed Actuarial Value of Assets is allocated as a level percentage of earnings of the group between the valuation date and the assumed retirement age. This allocation is performed for the group as a whole, not as a sum of individual allocations. The portion of this Actuarial Present Value allocated to a specific year is called the Normal Cost. Under this method, actuarial gains (losses) reduce (increase) future Normal Costs.

L. Changes from Previous Valuation

Mortality was:

For healthy participants, RP-2000 Combined Healthy Participant Mortality Tables, separate rates for males and females, with fully generational mortality improvements projected with Scale BB to each future decrement date.

For disabled participants, RP-2000 Disabled Mortality Tables, with separate rates for males and females, with fully generational mortality improvements projected with Scale BB to each future decrement date.

Retirement Plan for Employees of the City of Key West Distribution by Attained Age and Service

Groups as of October 1, 2015

Attained	COMPLETED YEARS OF SERVICE							
Age Group	0-4	5-9	10-14	15-19	20-24	25-29	30 & Over	Total
Under 25	12	-	-	-	-	-	-	12
25 - 29	13	3	-	-	-	-	-	16
30 - 34	22	7	2	-	-	-	-	31
35 - 39	6	7	1	-	-	-	-	14
40 - 44	13	9	6	4	-	-	-	32
45 - 49	10	9	10	4	1	1	-	35
50 - 54	14	16	5	4	3	-	-	42
55 - 59	9	14	4	2	3	-	-	32
60 - 64	7	3	1	3	1	-	-	15
65 & Over	5	6	4	3	1	1	1	21
TOTAL	111	74	33	20	9	2	1	250
				10/01/2014		10/01/2015		
	Average Attained Age Average Hire Age Average Pay Percent Female			46.41 years46.32 years39.48 years39.15 years\$41,337\$45,36035.5%33.6%				

<u>Statistics for Participants Entitled to Deferred Benefits</u> <u>and Participants Receiving Benefits</u>

A. Entitled to Deferred Benefits

Current Age Group Count		Total Annual Benefit	Average Annual Benefit	
Less than 50	7	\$ 68,694	\$	9,813
50 - 54	-	-		-
55 - 59	2	16,144		8,072
60 - 64	-	-		-
65 - 69	2	10,025		5,013
70 & Over	2	7,597		3,799
TOTAL	13	\$ 102,460	\$	7,882

B. <u>Receiving Benefits (including DROPs)</u>

Current Age Group Count		Total Annual Benefit	Average Annual Benefit		
Group	Count	 Denem	Denent		
Less than 50	13	\$ 95,348	\$	7,334	
50 - 54	9	286,919		31,880	
55 - 59	12	380,095		31,675	
60 - 64	21	499,645		23,793	
65 - 69	28	494,050		17,645	
70 - 74	28	463,662		16,559	
75 - 79	15	166,451		11,097	
80 - 84	13	155,581		11,968	
85 - 89	3	16,650		5,550	
90 & Over	1	 3,129		3,129	
TOTAL	143	\$ 2,561,530	\$	17,913	

Reconciliation of Member Data

A.	Active Participants	
	1. Active participants previous year	245
	2. Retired during year	(3)
	3. Entered DROP during year	(4)
	4. Died during year	0
	5. Disabled during year	0
	6. Terminated refunded during year	(21)
	7. Terminated not refunded	(1)
	8. Terminated vested	(2)
	9. Rehired	3
	10. New active participants	33
	11. Active participants current year	250
B.	Participants Receiving Benefits	
	1. Participants receiving benefits previous year	126
	2. New retired participants	6
	3. New terminated vested receiving benefits	0
	4. New disabled receiving benefits	0
	5. New beneficiaries receiving benefits	1
	6. Died or ceased payment during year	(1)
	7. Retired or terminated vested receiving benefits current year	132
C.	DROP Participants	
	1. DROP participants previous year	10
	2. Died during year	0
	3. Became disabled during year	0
	4. Employment terminated and retired during year	(3)
	5. Entered DROP during year	4
	6. DROP participants current year	11
D.	Terminated Vested Participants Entitled to Future Benefits	
	1. Terminated vested entitled previous year	12
	2. Died during year	0
	3. Commenced receiving benefits during year	0
	4. New terminated vested	2
	5. Refunded member contributions	0
	6. Rehired	(1)
	7. Terminated vested entitled to future benefits current year	13

Projected Retirement Benefits

	0	ected Total
Fiscal Year	Ann	ual Payout
2016	\$	2,761,641
2017	\$	2,940,060
2018	\$	3,114,207
2019	\$	3,251,594
2020	\$	3,370,484
2021	\$	3,516,165
2022	\$	3,697,210
2023	\$	3,862,709
2024	\$	4,035,527
2025	\$	4,200,576

The above projected payout of Plan benefits during the next ten years is based on assumptions involving all decrements. The actual payout may differ from the above estimated depending upon death, salary and retirement experience of the Plan. However, since the projected payment is recomputed each valuation date, there is an automatic correction to the extent that actual experience varies from expected experience.

Recent Compensation, Termination and Investment Return Experience

	Compe	nsation	Termination		Investment Return	
Fiscal Year	% Increase (Decrease)	Assumed Increase	Ratio of Actual to Expected	Smoothed Actuarial Value	Market Value	Assumed Rate
2015	9.2%	4.4%	0.8	7.7%	1.2%	7.5%
2014	4.9%	4.5%	1.1	9.3%	10.1%	7.5%
2013	3.3%	7.6%	1.1	8.8%	13.3%	8.0%
2012	5.0%	7.7%	0.9	3.6%	15.3%	8.0%
2011	3.0%	7.6%	1.4	3.7%	(1.1%)	8.0%
2010	0.9%	7.9%	0.9	5.4%	9.2%	8.0%
2009	(2.8%)	7.9%	1.1	5.5%	7.2%	8.0%
2008	1.0%	7.9%	1.2	7.5%	(10.7%)	8.0%
2007	4.0%	7.7%	1.2	12.6%	15.8%	8.0%
2006	9.1%	7.0%	2.5	8.9%	10.1%	8.0%
Last 3 Years	5.8%	5.5%	1.0	8.6%	8.1%	7.7%
Last 5 Years	5.1%	6.3%	1.0	6.6%	7.6%	7.8%
Last 10 Years	3.7%	7.0%	1.2	7.3%	6.7%	7.9%

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Summary of Transaction Information¹

Year Ended	Benefits Paid ²		Total Expenses		Member Contributions		Co	City ontributions	Market Value ³	
09/30/2015	\$	2 671 762	¢	280.020	¢	709 252	¢	942 057	¢	47 155 011
09/30/2013	Դ Տ	2,671,762 2,261,393	\$ \$	389,039 393,806	\$ \$	708,253 655,206	\$ \$	842,957 919,864	э \$	47,155,911 47,883,789
09/30/2014	ֆ \$	2,201,393	ֆ \$	240,579	ֆ \$	629,220	 Տ	919,804 987,241		44,281,241
09/30/2013	Տ	2,730,270	э \$	240,379		610,375	Տ	987,241 879,008	Գ	39,746,668
09/30/2012	э \$		ֆ \$	301,844	\$ \$		э \$		э \$	39,740,008
09/30/2011	Þ	2,123,714	Ф	301,844	Ф	601,769	¢	1,133,177	Ф	55,519,181
09/30/2010	\$	1,933,345	\$	312,100	\$	612,574	\$	1,163,828	\$	36,586,205
09/30/2009	\$	1,710,341	\$	208,043	\$	632,457	\$	1,265,870	\$	33,939,905
09/30/2008	\$	1,450,151	\$	212,667	\$	713,251	\$	1,331,364	\$	31,679,524
09/30/2007	\$	1,316,275	\$	205,055	\$	710,429	\$	1,250,735	\$	35,050,475
09/30/2006	\$	1,380,767	\$	185,896	\$	661,533	\$	1,199,176	\$	29,866,340
	·	, ,		,		,		, ,		, ,
09/30/2005	\$	1,235,748	\$	163,673	\$	633,086	\$	1,147,792	\$	26,857,011
09/30/2004	\$	1,060,839	\$	176,274	\$	575,902	\$	995,293	\$	23,582,251
09/30/2003	\$	811,942	\$	158,084	\$	531,715	\$	967,755	\$	20,778,117
09/30/2002	\$	772,089	\$	165,553	\$	511,158	\$	860,526	\$	17,619,387
09/30/2001	\$	993,003	\$	178,606	\$	473,658	\$	779,043	\$	18,534,124
09/30/2000	\$	750,178	\$	128,816	\$	472,597	\$	782,111	\$	19,303,795
09/30/1999	\$	806,251	\$	155,394	\$	450,523	\$	746,460	\$	17,137,828
09/30/1998	\$	608,403	\$	120,276	\$	422,195	\$	1,326,594	\$	14,411,390
09/30/1997	\$	443,102	\$	90,986	\$	403,334	\$	675,729	\$	13,308,000
09/30/1996	\$	402,987	\$	87,094	\$	377,636	\$	631,346	\$	10,649,000
09/30/1995	\$	300,345	\$	77,881	\$	349,544	\$	607,151	\$	9,279,000
09/30/1994	\$	234,960	\$	76,288	\$	299,289	\$	535,230	\$	7,568,000
09/30/1993	\$	197,031	\$	73,915	\$	283,713	\$	501,617	\$	6,855,000
09/30/1992	\$	177,419	\$	98,730	\$	255,096	\$	446,212	\$	5,666,000

¹ Information prior to October 1, 2000 as reported by prior actuaries

² Effective for year ending September 30, 2013, includes DROP distributions (previously included DROP benefit payments)

³ Effective for year ending September 30, 2013, includes DROP account balances

<u>City Contribution Information</u>

Valuation Date	Contribution Fiscal Year End	E	um Required mployer ntributions	Actual Employer Contributions Made			
10/01/2015	09/30/2017	\$	663,635		N/A		
10/01/2014	09/30/2016	\$	474,597		N/A		
10/01/2014	09/30/2015	\$	474,597	\$	842,957		
10/01/2013	09/30/2014	\$	635,941	\$	919,864		
10/01/2012	09/30/2013	\$	987,241	\$	987,241		
10/01/2011	09/30/2012	\$	842,538	\$	879,008		
10/01/2010	09/30/2011	\$	684,153	\$	1,133,177		
10/01/2009	09/30/2010	\$	640,444	\$	1,163,828		
10/01/2008	09/30/2009	\$	745,087	\$	1,265,870		
10/01/2007	09/30/2008	\$	893,546	\$	1,331,364		
10/01/2006	09/30/2007	\$	961,724	\$	1,250,735		
10/01/2005	09/30/2006	\$	1,136,922	\$	1,199,176		
10/01/2004	09/30/2005	\$	999,852	\$	1,147,792		
10/01/2003	09/30/2004	\$	760,180	\$	995,293		
10/01/2002	09/30/2003	\$	967,755	\$	967,755		

Actuarial Valuation as of October 1, 2015

State Required Exhibit

	1	10/01/2014	Prior ssumptions 10/01/2015	Current Assumptions 10/01/2015	
A. Member Data					
 Active Members Retired Members and Beneficiaries 		245	250		250
receiving benefits (including DROPs)		135	142		142
3. Disabled Members receiving benefits		1	1		1
4. Terminated vested Members		12	13		13
5. Annual payroll of active Members	\$	10,127,588	\$ 11,339,923	\$	11,339,923
6. Annual benefits payable to Members currently					
receiving benefits	\$	2,436,121	\$ 2,561,530	\$	2,561,530
B. <u>Value of Assets</u>					
1. Smoothed actuarial value of assets	\$	45,337,795	\$ 47,501,146	\$	47,501,146
2. Market value of assets	\$	47,883,789	\$ 47,155,911	\$	47,155,911
C. Liabilities					
1. Actuarial present value of future expected benefit payments for active members					
a. Retirement benefits	\$	20,458,834	\$ 22,996,565	\$	22,544,546
b. Termination benefits		2,329,631	2,564,711		2,520,075
c. Death benefits		552,710	630,134		867,434
d. Disability benefits		902,934	994,586		931,005
e. Total	\$	24,244,109	\$ 27,185,996	\$	26,863,060
2. Actuarial present value of future expected benefit payments for terminated					
vested members	\$	616,233	\$ 599,835	\$	593,668
 Actuarial present value of future expected benefit payments for members currently receiving benefits 					
a. Service retired (including DROPs)	\$	24,604,572	\$ 25,494,176	\$	25,550,409
b. Disability retired		29,173	28,607		24,674
c. Beneficiaries		1,409,268	1,392,165		1,393,410
d. Miscellaneous		169,130	 153,783		153,783
e. Total	\$	26,212,143	\$ 27,068,731	\$	27,122,276

Actuarial Valuation as of October 1, 2015

State Required Exhibit

]	10/01/2014		Prior ssumptions 10/01/2015	Current Assumptions 10/01/2015	
4. Total actuarial present value of future						
expected benefit payments	\$	51,072,485	\$	54,854,562	\$	54,579,004
5. Actuarial accrued liabilities (Entry Age Normal)	\$	43,878,287	\$	46,849,959	\$	46,751,976
6. Unfunded actuarial accrued liabilities (Entry Age Normal)	\$	(1,459,508)	\$	(651,187)	\$	(749,170)
D. Statement of Accumulated Plan Benefits						
1. Actuarial present value of accumulated						
vested benefits						
a. Participants currently receiving benefits						
including DROPs	\$	26,043,013	\$	26,914,948	\$	26,968,493
b. Other participants	Ψ	11,737,165	Ψ	12,934,485	Ψ	12,866,809
c. Total	\$	37,780,178	\$	39,849,433	\$	39,835,302
2. Actuarial present value of accumulated non-	Ŷ	07,700,270	Ŷ	0,,01,,000	Ŷ	0,000,002
vested plan benefits		1,523,622		1,632,129		1,620,885
3. Total actuarial present value of accumulated				_,,_		_,,
plan benefits	\$	39,303,800	\$	41,481,562	\$	41,456,187
E. Statement of Change in Accumulated Plan Benefits						
1. Actuarial present value of accumulated plan benefits						
as of October 1, 2014					\$	39,303,800
2. Increase (decrease) during year attributable to:					Ψ	57,505,000
a. Plan amendment					\$	0
b. Change in actuarial assumptions					Ψ	(25,375)
c. Benefits paid including contribution refunds						(2,671,762)
d. Other, including benefits accumulated and increase						(_,;;;;;;;)_)
for interest due to decrease in the discount period						4,849,524
e. Net increase					\$	2,152,387
3. Actuarial present value of accumulated plan benefits						, ,
as of October 1, 2015					\$	41,456,187
·						

Actuarial Valuation as of October 1, 2015

State Required Exhibit

	1	10/01/2014	Prior Assumptions 10/01/2015		Current Assumptions 10/01/2015	
F. <u>Pension Cost</u>						
 Total normal cost Interest adjustment 	\$	1,044,499 37,753	\$	1,323,204 47,827	\$	1,289,184 46,597
3. Total required contribution	\$	1,082,252	\$	1,371,031	\$	1,335,781
4. Item 3 as a percentage of payroll		10.7%		12.1%		11.8%
5. Estimated employee contributions	\$	607,655	\$	680,395	\$	680,395
6. Item 5 as a percentage of payroll		6.0%		6.0%		6.0%
7. Net amount payable by City	\$	474,597	\$	690,636	\$	655,386
8. Item 7 as a percentage of payroll		4.7%		6.1%		5.8%
G. Past Contributions						
 Total contribution required Actual contributions made: 	\$	1,082,252	\$	1,082,252	\$	1,082,252
a. Employees	\$	708,253		N/A		N/A
b. City		842,957		N/A		N/A
c. Total	\$	1,551,210		N/A		N/A
H. Net Actuarial Gain (Loss)	\$	1,171,631	\$	(948,743)	\$	(948,743)
I. Disclosure of Following Items:						
 Actuarial present value of future salaries attained age 	\$	64,375,340	\$	71,874,461	\$	71,312,187
2. Actuarial present value of future employee contributions - attained age	\$	3,862,520	\$	4,312,467	\$	4,278,731
3. Actuarial present value of future contributions from other sources		N/A		N/A		N/A
4. Amount of active members' accumulated contributions	\$	3,982,810	\$	4,359,981	\$	4,359,981
5. Actuarial present value of future salaries and						
future benefits at entry age 6. Actuarial present value of future employee		N/A		N/A		N/A
contributions at entry age		N/A		N/A		N/A

State Required Exhibit

This actuarial valuation and/or cost determination 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 other wise provided for in the valuation. All known events or trends which may require material increase in Plan costs or required contribution rates have been taken into account in the valuation.

Enrollment Number: 14-02802 Dated: August 12, 2016

Lawrence F. Wilson, A.S.A.