2014 ACTUARIAL VALUATION

FEBRUARY 2015

ACTUARIAL VALUATION AS OF OCTOBER 1, 2014 FOR THE PLAN YEAR BEGINNING OCTOBER 1, 2015 TO DETERMINE CONTRIBUTIONS TO BE PAID IN THE FISCAL YEAR ENDING SEPTEMBER 30, 2016





Management Advisors

Benefits Specialists

February 24, 2015

George S. Brown Chairman, EERP Board of Trustees City of Boca Raton EERP 201 West Palmetto Park Road Boca Raton, Florida 33432-3795

Dear Mr. Brown:

This report presents the results of the 2014 actuarial valuation of the City of Boca Raton Executive Employees' Retirement Plan. Actuarial Concepts was retained by the City to perform the actuarial valuation and prepare this report. This actuarial valuation was prepared and completed by us or under our direct supervision, and we acknowledge responsibility for the results. To the best of our knowledge, the results are complete and accurate and, in our opinion, the techniques and assumptions used are reasonable and meet the requirements and intent of Part VII, Chapter 112, Florida Statutes. There is no benefit or expense to be provided by the Plan and/or paid from the Plan's assets for which liabilities or current costs have not been established or otherwise taken into account in the valuation. All known events or trends that require a material increase in plan costs or required contribution rates have been taken into account in the valuation.

The use of the valuation results for financial or administrative purposes, other than those outlined in the report, is not recommended without an advance review by Actuarial Concepts of the appropriateness of such application.

Members of our staff are available to discuss this report and related issues.

Very truly yours,

ACTUARIAL CONCEPTS

Michael fiernerz

By:

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## SECTION 1 KEY VALUATION RESULTS SUMMARY

The 2014 valuation of the City of Boca Raton Executive Employees' Retirement Plan ("Plan") presents a statement of the estimated financial position of the Plan as of October 1, 2014. Information in the report provides bases for determining contribution requirements and current funded status.

#### Key Results Synopsis

The major conclusions of the report are:

- The total City contribution for the 2014-2015 plan year is \$1,517,026.
- The total City contribution for the 2015-2016 plan year is \$1,540,993 if paid monthly. If paid as of October 1, 2015, the City contribution would be \$1,482,115.
- The Plan incurred actuarial gains of approximately \$982,000, due mainly to investment returns in excess of that assumed.
- The Plan is 78% funded on an accrued benefit liability basis per State required disclosures (Chapter 112.63).
- The Plan is 72% funded on a projected liability measurement basis.

#### **Change since Last Valuation**

There have been no changes to Plan provisions or the actuarial cost method since the last valuation. The investment return assumption has been reduced from 7.75% to 7.50%. The ultimate salary increase has been lowered from 3.50% to 3.25%. The assumed morality rates have been updated to the valuation year.

A summary of current Plan provisions is included in Appendix A. Actuarial assumptions and cost method are summarized in Appendix B, along with explanations of other valuation procedures.



#### Plan Experience

For the 12 months ended September 30, 2014, the actual experience under the Plan, in aggregate, was more favorable than expected, resulting in a net actuarial gain of approximately \$982,000. This gain was mainly attributable to an investment return greater than assumed, 9.92% versus 7.75%. There was also a small gain due to salary increases less than assumed, 0.44% versus 1.00%.







#### **City Contribution Requirements**



\* Assumed payable in 12 equal installments beginning October 31 of the year following the valuation date. Member contributions reduce the normal cost.

Contribution requirements have increased as a percentage of payroll and in dollar amount since the last valuation. The dollar increase is mostly due to the lowering of the investment return assumption (if prior assumptions were used, contribution requirements both as a dollar amount and as a percentage of payroll would have been less than last year); the percentage increase is also impacted by the lower valuation payroll since last year (if payroll increased as expected, then the percentage requirements would have been about the same).





#### Florida Statutes, Chapter 112.63 Funded Status – Current Liabilities

A comparison of current actuarial value of assets of the fund with the current actuarial present value (APV) of benefits accrued based on credited service and salary to date is now a required disclosure under Florida Statutes, Chapter 112.63. This measurement is often used as a surrogate for the liability if the Plan were to stop future benefit accruals. It is called "current liability" since it is based only on current earned benefits, even though the actual payment of those benefits extends many years into the future. The accumulated benefit liability APVs were developed using the statute required assumed rate of future investment return of 7.75%.

The current liability is normally expected to be more than 100% funded for an ongoing plan since the plan will ultimately be liable for a greater accrued benefit (the credited-projected benefit).

The Plan's current funded status is 78%.



#### **GASB Funded Status - Projected Liabilities**



A comparison of assets with the actuarial present value (APV) of benefit liabilities projected per the GASB 27 guidelines, actuarial accrued liability (AAL), is used to judge the progress to date of funding the "ultimate" liability associated with benefits recognized per GASB 27. AAL is not normally expected to be 100% funded, but a maturing plan's funded ratio should increase over time. The AAL APVs were developed using an assumed rate of interest discount of 7.50%.

The Plan's GASB projected funded status is 72%.





## **GASB Funded Trend**



The GASB funded trend has increased since last year due mostly to favorable investment returns.



## Valuation Trend



Plan liabilities have increased about as expected. In addition, liabilities will grow automatically due to the nature of the present value calculations, since discounts are removed as ongoing members progress closer to retirement. The UAAL decreased since last year due primarily to favorable investment returns.



#### Participation Trend



#### True Costs

It should be noted that the true costs of a retirement plan cannot be determined until its future unfolds. No one can precisely predict the interest earnings on fund assets, member termination rates, future salary levels, mortality experience, etc. Estimates based on experience with similar groups, along with the judgment of the actuary and the Plan sponsor, can provide a reasonable approximation of this true cost. As actual experience emerges under the Plan, it will be necessary to study the continued appropriateness of the techniques and assumptions used and to adjust the contribution rate as necessary.



## SECTION 2 ACTUARIAL VALUATION DEVELOPMENT

#### **Date and Basis of Valuation**

Estimated liabilities for the benefits provided by City of Boca Raton Executive Employees' Retirement Plan and the contributions required to fund these liabilities have been determined as of October 1, 2014, based upon:

- the provisions of the Plan, as applicable October 1, 2014, as summarized in Appendix A;
- 2. the actuarial assumptions and actuarial cost method, as summarized in Appendix B;
- 3. the statement of trust fund assets as of October 1, 2014, provided by the City, as summarized in Appendix C; and
- the member data as of October 1, 2014, provided by the City, as summarized in Appendix D.

The trust fund asset information has been reconciled by the City. The member data has been supplied by the City and provided as representative of the current participating group. While the asset and member information was reviewed for overall reasonableness, Actuarial Concepts has relied on the City for this information and does not assume responsibility for either its accuracy or completeness.



## Member Reconciliation

	Members						
	Actives	Retirees and Beneficiaries	DROP Retirees	Disabled Retirees	Vested Terminateds	Pending Refunds	
Members at 10/01/13	41	17	6	-	8	1	
Increase (Decrease) Due to:							
Retirements	-	-	-	-	-	-	
DROP Retirement	(2)	-	2	-	-	-	
Nonvested Terminations	(1)	-	-	-	-	-	
Vested Terminations	(1)	-	-	-	1	-	
New Entrants	1	-	-	-	-	-	
Deaths	-	-	-	-	-	-	
Rehires	-	-	-	-	-	-	
Disableds	-	-	-	-	-	-	
From LP Status	-	-	-	-	-	-	
Lump-Sum Payment	-	-	-	-	-	-	
Transfers	2						
Members at 10/1/14	40	17	8	-	9	1	



#### **Valuation Financial Values**

1.	Participation				
	(a) Number of Active Members				40
	(b) Number of Inactive Members				35
	(c) Annual Valuation Payroll for Contributing Members			\$	4,374,217
	(d) Total Valuation Payroll				4,374,217
2.	Actuarial Present Value (APV) of Future Benefits as of	10/	1/14		
	(a) Active Members				
	(1) Retirement				20,025,921
	(2) Withdrawal				349,661
	(3) Disability				471,694
	(4) Death				196,800
	(5) Refund of Contributions				84,519
	(6) Total			\$	21,128,595
	(b) Retirees and Beneficiaries				23,390,834
	(c) Disabled Retirees				-
	(d) Vested Terminated and Pending Refunds				1,125,299
	(e) Total APV Future Benefits			\$	45,644,728
3.	APV Apportionment of line 2(e)*				
	(a) APV of Total Future Normal Costs				5,266,235
	(b) Actuarial Accrued Liability [(2e)-(3a)]				40,378,493
	(c) Actuarial Value of Assets				29,051,026
	(d) Unfunded AAL (UAAL) [(3b)-(3c)]			\$	11,327,467
4.	Breakdown of UAAL on line 3(d)				
	(a) UAAL [3(d)]				11,327,467
	(b) Change in UAAL Due to Assumption Changes				1,055,238
	(c) UAAL Before Change [(4a)-(4b)]			\$	10,272,229
	(d) Expected UAAL				11,254,554
	(e) Actuarial (Gain) Loss [(4c)-(4d)]			\$	(982,325)
		Eq	uiv. Annual		
5.	Contribution Requirements Due End of Month** October-15	-	Amount	%	% of Payroll
	(a) Plan Normal Cost	\$	863,018		19.06%
	(b) Expense Normal Cost				0.00%
	(c) Total Plan Normal Cost	\$	863,018		19.06%
	(d) Amortization of UAAL		1,175,980		25.98%
	(e) Total Required Plan Contribution [(5c)+(5d)]	\$	2,038,998		45.04%
	(f) Estimated Member Contributions		498,005		11.00%
	(g) Net City Contribution [(5e)-(5f)]		1,540,993		34.04%
	(h) City Contribution if paid 10/1/14		1,482,115		32.74%

\* Calculated in accordance with the Individual Entry Age Actuarial Cost Method.

\*\* Assumed payable in 12 equal installments at the end of each month beginning 10/31/15. Includes payroll growth rate of 3.5%.



#### **Explanation of Financial Values**

Actuarial Present Value of Future Benefits (line 2e)

The actuarial present value (APV) of future benefits is determined by first measuring the benefit amount that would be available for each member at various future dates (assuming future service credits earned and future salary increases awarded) under each of the events provided for by the Plan (retirement, disability, death, termination of employment). Then the future value of those benefit entitlements is determined by multiplying the various benefit amounts by the then current value of the annuities associated with those amounts. Finally, the APV of those future benefit values is determined by applying discounts to recognize the time value of money and probabilities of death, disability, termination of employment, etc.

#### APV of Total Future Normal Costs (line 3a)

The APV of future normal costs is that portion of the total APV of future benefits, as described above, that is assigned to future plan years by the Individual Entry Age Actuarial Cost Method (described in Appendix B).

#### Actuarial Accrued Liability (line 3b) and

Unfunded Actuarial Accrued Liability (line 3d)

The actuarial accrued liability (AAL) and the unfunded AAL (UAAL) (the AAL less the actuarial value of assets) are actuarial values generated under the Individual Entry Age Actuarial Cost Method, as described in Appendix B. These liability amounts are not the APV of benefits accrued to date by members but are actuarially determined amounts based on the accrual of Individual Entry Age normal cost amounts due prior to the valuation date. The liability for benefits accrued to date (the APV of accumulated benefits) is provided in Section 3.



Plan Normal Cost (line 4a)

The Plan normal cost for the 12-month period beginning on the valuation date has been determined by first calculating for each member an individual yearly normal cost (that changes in dollar amount as pay increases, but is constant as a percent of each individual's pay), then adding together to obtain the Plan normal cost amount as of the beginning of the year. This preliminary total is then adjusted for interest credits assuming contributions are made quarterly and an amount to allow for expected annual expenses.

#### Total Required Plan Contribution (line 4e) and

#### Net City Contribution (line 4g)

The total required contribution is the annual amount necessary to cover the normal cost and amortize the initial UAAL as of October 1, 2003, over a period of 30 years from October 1, 2003, over 30 years from date of inception for any changes to the Plan, assumptions or cost methodology, and over 15 years from date of inception for any actuarial gains or losses established after October 1, 2003. Each year's UAAL portion can be either positive or negative, with amortization credits occurring if negative. The City's <u>net</u> contribution is equal to the total required contribution less estimated member contributions.



Actuarial Concépts

#### Sensitivity Study – Estimated Valuation Financial Values at 5.5% Interest

This pro forma valuation estimates the effect on projected liabilities and contribution requirements if the Plan were to earn a return over the long term at a lower rate than the current assumed rate. A two percentage point difference in assumed rate was valued in accordance with State reporting requirements. Although projected liabilities would increase by about 32%, the net City contribution would increase by about 55% because the increase had no prior funding, whereas the present value of benefits based on current assumptions are partially funded. For returns between the current valuation rate and the pro forma rate, one can interpolate an estimate of resultant contribution requirements. Note if long term returns are greater than the current valuation assumed rate, the expected contribution requirements would be less than the current valuation requirement.

1.	Participation				
	(a) Number of Active Members				40
	(b) Number of Inactive Members				35
	(c) Annual Valuation Payroll for Contributing Members			\$	4,374,217
	(d) Total Valuation Payroll				4,374,217
2.	Actuarial Present Value (APV) of Future Benefits as of	10/	1/14		
	(a) Active Members				
	(1) Retirement				28,422,034
	(2) Withdrawal				558,569
	(3) Disability				713,289
	(4) Death				273,608
	(5) Refund of Contributions				67,884
	(6) Total			\$	30,035,384
	(b) Retirees and Beneficiaries				28,756,566
	(c) Disabled Retirees				-
	(d) Vested Terminated and Pending Refunds				1,632,095
	(e) Total APV Future Benefits			\$	60,424,045
3.	APV Apportionment of line 2(e)*				
	(a) APV of Total Future Normal Costs				8,871,571
	(b) Actuarial Accrued Liability [(2e)-(3a)]				51,552,474
	(c) Actuarial Value of Assets				29,051,026
	(d) Unfunded AAL (UAAL) [(3b)-(3c)]			\$	22,501,448
4.	Breakdown of UAAL on line 3(d)				
	(a) UAAL [3(d)]				22,501,448
	(b) Change in UAAL Due to Assumption Changes				12,229,219
	(c) UAAL Before Change [(4a)-(4b)]			\$	10,272,229
	(d) Expected UAAL				11,254,554
	(e) Actuarial (Gain) Loss [(4c)-(4d)]			\$	(982,325)
		Eq	uiv. Annual		
5.	Contribution Requirements Due End of Month** October-15		Amount	9	% of Payroll
	(a) Plan Normal Cost	\$	1,306,901		28.87%
	(b) Expense Normal Cost		-		0.00%
	(c) Total Plan Normal Cost	\$	1,306,901		28.87%
	(d) Amortization of UAAL		1,575,124		34.79%
	(e) Total Required Plan Contribution [(5c)+(5d)]	\$	2,882,025	_	63.66%
	(f) Estimated Member Contributions		498,005		11.00%
	(g) Net City Contribution [(5e)-(5f)]		2,384,020		52.66%
	(h) City Contribution if paid 10/1/14		2,316,147		51.16%

#### Sensitivity Study - Estimated Valuation Financial Values at 5.5% Interest

\* Calculated in accordance with the Individual Entry Age Actuarial Cost Method.

\*\* Assumed payable in 12 equal installments at the end of each month beginning 10/31/15. Includes payroll growth rate of 3.5%.



## **Derivation of Current UAAL**

Development of UAAL as of Valuation Date						
1. Unfunded Actuarial Accrued Liability	v (UAAL) as of	10/1/13	\$ 11	,559,087		
2. Normal Cost - Year Ended	9/30/2014			344,948		
3. Interest Accrued on (1) and (2)				922,563		
4. Contributions - Year Ended	9/30/2014		1	,458,974		
5. Interest Accrued on (4)				113,070		
6. Expected UAAL at	10/1/2014		11	,254,554		
7. Changes Due to:						
(a) Actuarial Assumptions			1	,055,238		
(b) Actuarial (Gain)/Loss			(	(982,325)		
(c) Total			\$	72,913		
8. UAAL at Valuation Date			11	,327,467		





## SECTION 3 ANALYSIS OF VALUATION RESULTS

#### **Discussion of Valuation Results**

If the participating group remained unchanged and all the actuarial assumptions were realized, the Plan's experience would be as anticipated, and there would be no actuarial gain or loss. If the experience were less favorable than anticipated, an actuarial loss would result; if more favorable, an actuarial gain would result.

For the 12 months ended September 30, 2014, the actual experience under the Plan, in aggregate, was more favorable than expected, resulting in a net actuarial gain of approximately \$982,000. This gain was mainly attributable to an investment return greater than assumed, 9.92% versus 7.75%. There was also a small gain due to salary increases less than assumed, 0.44% versus 1.00%.

Future valuations will monitor the Plan's experience to determine whether actuarial gains or losses have occurred since the previous valuation. Recognition of these actuarial gains or losses will be made through adjustments to the UAAL and amortized as provided in Appendix B.

It should be noted that the true costs of a retirement plan cannot be determined until its future unfolds. No one can precisely predict the interest earnings on retirement fund assets, mortality rates to be experienced, member termination rates, future salary levels, etc. Estimates based on experience with similar groups, along with the judgment of the actuary and the Plan sponsor, can provide a reasonable approximation of this true cost. As actual experience emerges under the Plan, it will be necessary to study the continued appropriateness of the techniques and assumptions employed and to adjust the contribution rate as necessary.

## Valuation Comparison Table

		10/01/14	
	10 (01 (10	Before	10/01/14
1. Member Data	10/01/13	Changes	After Changes
(a) Active Members	41	40	40
(b) Ketirees, Beneficiaries and Disableds	23	25	25
(c) Vested Terminated and Limited Members	9	10	10
(d) Total Anticipated Payroll for Next 12 Months	\$ 4,463,155	\$ 4,382,069	\$ 4,374,217
(e) Actuarial Present Value (APV) of Future Valuation Payroll	30,525,500	29,535,800	29,519,800
(f) Total Annual Benefit Payments	1,584,788	1,772,108	1,772,108
2. Assets	00016040	0.0 505 057	00 505 05 (
(a) Market Value	27,316,943	30,507,856	30,507,856
(b) Actuarial Value	25,402,538	29,051,026	29,051,026
3. Liabilities			
(a) APV of Future Benefits			
(1) Active Members			00 005 004
	19,544,016	19,422,264	20,025,921
-Withdrawal	329,007	332,626	349,661
–Disability	476,947	454,523	471,694
-Death	189,193	190,694	196,800
-Refund of Contributions	117,016	86,875	
	\$ 20,656,179	\$ 20,486,982	\$ 21,128,595
(2) DKOP Retirees	6,704,287	9,081,323	9,312,932
(3) Ketirees and Beneficiaries	13,716,444	13,759,912	14,077,903
(4) Vested Terminateds and Pending Ketunds	1,153,028	1,077,643	1,125,299
(5) Iotal	\$ 42,229,938	\$ 44,405,859	\$ 45,644,728
(b) APV of Vested Accrued Benefits	34,390,656	36,868,630	37,945,893
(c) APV of All Accrued Benefits	34,789,303	37,185,073	38,283,483
(d) Actuarial Accrued Liability (AAL)	14.945.901	14.860.000	15 000 005
(1) Ketirement	14,845,801	14,862,339	15,302,637
(2) Withdrawal	159,150	165,219	171,753
(3) Disability	245,560	244,180	251,913
(4) Death	124,504	128,521	132,260
(5) Refund of Contributions	12,851	4,119	3,797
(b) Inactives	21,573,759	23,918,877	24,516,133
	\$ 36,961,623	<b>a</b> 39,323,233	\$ 40,378,493
(e) Unfunded AAL (UAAL)	11,559,087	10,272,229	11,32/,46/
4. Dreakdown of Flan Normal Costs	751 510	750 005	778 010
(a) Nethelam	22 504	732,873 22,873	22 490
(b) vyuudrawai (c) Dissekiitty	40,100	22,22b	23/48U 20.011
(c) Disability (d) Death	40,122	30,304 10.00E	11 927
(u) Defined of Contributions	10,923	10,703	10.250
(f) Total	\$ 840,230	\$ 835.078	\$ 863.018

Actuarial Concępts

## Valuation Comparison Table (continued)

5.	Contribution Requirements* for Year Ended	C	9/30/15	C	9/30/16	0	9/30/16
	(a) Plan Normal Cost**	\$	840,230	\$	835,078	\$	863,018
	(b) Amortization Payment		1,184,926		1,126,727		1,175,980
	(c) Total Plan Requirements*	\$	2,025,156	\$	1,961,805	\$	2,038,998
	(d) Estimated Member Contributions		508,130		498,898		498,005
	(e) Total City Requirements*	\$	1,517,026	\$	1,462,907	\$	1,540,993
	(f) Total City Requirement Adjusted to End of Year***		1,570,185		1,514,171		1,593,274
6.	Past Contributions for Year Ended	9	/30/2014				
	(a) (1) Contribution Required by City EOY Adjusted	\$	1,572,044				
	(2) Contribution Required by Members EOY Adjusted		568,119				
	(b) (1) Actual City Contributions Paid		1,458,974				
	(2) Actual Member Contributions Paid		584,950				
	(c) (1) Actual City Contribution Interest Adjusted to End of Year		1,572,044				
	(2) Actual Member Contribution Interest Adjusted to End of Ye		607,194				

\* Annual amounts assumed payable in 12 equal installments at the end of each month. Includes a payroll growth rate of 3.5%.

\*\* Normal cost is determined based on the Individual Entry Age Actuarial Cost Method.

\*\*\* Includes interest adjustments at the valuation rate on amounts to end of year.



## Effect of Amortization Policy on Contribution Requirements

It is intended that the initial UAAL be amortized over a period of 30 years from October 1, 2003. Actuarial (gains) or losses will be amortized over 15 years from inception. The amortization schedule is presented below:

			Years			0	utstanding
	Initial	Date of First	Remaining	An	nortization	]	Balance at
	Amount	Charge	10/1/14	Ι	Payment		10/1/14
UAAL Bases:							
1. Initial	\$ 2,240,543	10/01/03	19	\$	89,552	\$	1,156,262
2. 2004 Loss	408,970	10/01/05	5		58,827		255,600
3. 2004 Increase	1,291,030	10/01/05	20		114,309		1,528,720
4. 2005 Loss	159,792	10/01/06	6		22,162		113,451
5. 2006 Loss	126,096	10/01/07	7		16,863		98,894
6. 2007 Gain	(102,389)	10/01/08	8		(13,203)		(86,906)
7. 2008 Loss	1,617,418	10/01/09	9		201,105		1,462,746
8. 2008 Increase	440,783	10/01/09	24		33,823		508,460
9. 2009 Loss	2,201,117	10/01/10	10		263,908		2,095,155
10. 2009 Decrease	(432,173)	10/01/10	25		(31,976)		(492,746)
11. 2010 Loss	557,597	10/01/11	11		64,468		553,113
12. 2010 Increase	693,920	10/01/11	26		49,512		780,940
13. 2011 Loss	1,777,394	10/01/12	12		198,402		1,824,598
14. 2011 Increase	519,511	10/01/12	27		35,799		577,165
15. 2012 Loss	1,331,895	10/01/13	13		143,464		1,404,576
16. 2012 Decrease	(328,136)	10/01/13	28		(21,830)		(359,302)
17. 2013 Gain	(154,216)	10/01/14	14		(16,036)		(166,172)
18. 2014 Gain	(982,325)	10/01/15	15		(98,598)		(982,325)
19. 2014 Increase	1,055,238	10/01/15	30		65,430		1,055,238
Total				\$	1,175,980	\$	11,327,467



		Amortization
End of Year	UAAL Balance	Payments
2014-2015	\$ 11,327,467	\$ 1,184,927
2015-2016	10,945,144	1,175,980
2016-2017	10,543,055	1,217,140
2017-2018	10,068,005	1,259,739
2018-2019	9,513,024	1,303,830
2019-2020	8,870,567	1,281,960
2020-2021	8,202,670	1,300,507
2021-2022	7,465,393	1,325,296
2022-2023	6,647,039	1,388,479
2023-2024	5,701,602	1,172,259
2024-2025	4,910,117	853,609
2025-2026	4,390,654	792,546
2026-2027	3,895,735	530,625
2027-2028	3,636,085	332,412
2028-2029	3,563,096	369,127
2029-2030	3,446,450	541,646
2030-2031	3,141,643	560,603
2031-2032	2,794,260	580,224
2032-2033	2,400,418	600,532
2033-2034	1,955,919	455,209
2034-2035	1,629,213	251,382
2035-2036	1,489,976	260,181
2036-2037	1,331,146	269,287
2037-2038	1,150,933	278,712
2038-2039	947,403	213,849
2039-2040	796,064	294,346
2040-2041	549,660	187,639
2041-2042	395,747	106,644
2042-2043	314,522	165,641
2043-2044	165,851	171,439
2044-2045	0	-

## UAAL Repayment Schedule



## **Current Liabilities/Asset Comparison**

#### **Accumulated Plan Benefits**

		10/1/13	10/1/14
1.	Actuarial Present Value (APV)* of Vested Accrued Benefits		
	(a) Vested Terminated Participants	\$ 1,153,028	\$ 1,077,643
	(b) Retirees and Beneficiaries	13,716,444	13,759,912
	(c) DROP Retirees	6,704,287	9,081,323
	(d) Active Participants	12,816,897	12,949,753
	(e) Total APV* of Vested Accrued Benefits	\$ 34,390,656	\$ 36,868,630
2.	APV* of Nonvested Accrued Benefits	398,647	316,443
3.	APV* of Accumulated Plan Benefits [(1)+(2)]	\$ 34,789,303	\$ 37,185,073
4.	Actuarial Value of Assets	25,402,538	29,051,026
5.	Excess (if any) of APV* of Accumulated Plan		
	Benefits over the Actuarial Value of Assets [(3)-(4)]	9,386,765	8,134,047
6.	Percent Funded [(4)/(3)]	73%	78%
<u>St</u>	atement of Changes in Accumulated Plan Benefits		
1.	APV* of Accumulated Plan Benefits at 10/1/13		\$ 34,789,303
2.	Increase (Decrease) During the Year Attributable to:		
	(a) Plan Amendment		-
	(b) Change in Actuarial Assumptions		-
	(c) System Changes		-
	(d) Benefit Payments		1,088,490
	(e) Change in Benefits and APV* Factors		1,307,280
3.	APV* of Accumulated Plan Benefits at 10/1/14		\$ 37,185,073

\* Based on 7.75% interest, RP-2000 Combined Healthy Mortality Table-Dynamic with projection to valuation year and other assumed decrements as described in Appendix B.

Actuarial Concepts

Period Ended September 30	Actual Rate of Increase	Assumed Rate of Increase
2006	6.71%	4.43%
2007	5.62%	4.34%
2008	6.84%	4.46%
2009	6.29%	4.63%
2010	1.82%	2.50%
2011	1.12%	0.00%
2012	0.74%	1.00%
2013	1.23%	1.00%
2014	0.44%	1.00%

## **Comparison of Actual and Assumed Salary Increases**

## Comparison of Actual and Assumed Investment Returns

Period Ended September 30	Actuarial Rate of Return	Market Rate of Return	Assumed Rate of Actuarial Return
2006	7.08%	7.65%	8.00%
2007	8.28%	12.74%	8.00%
2008	3.49%	-15.18%	8.00%
2009	3.16%	0.06%	8.00%
2010	3.27%	9.51%	8.00%
2011	1.80%	0.30%	7.75%
2012	3.03%	20.02%	7.75%
2013	8.72%	12.99%	7.75%
2014	9.92%	7.59%	7.75%



Calculation of Actual Rate of Investment Return on Actuarial Value
--

Plan	Year	Ended September 30, 2014
R	=	2I , where
		M1+M2-I
Ι	=	the interest, dividends, plus appreciation or (depreciation)
M1	=	beginning actuarial value
M2	=	ending actuarial value
R	=	2 X \$2,572,319
		(\$25,402,538 + 29,051,026 - \$2,572,319)
R	=	\$5,144,638
		\$51,881,245
R	=	9.92%

## **Calculation of Actual Rate of Investment Return on Market Value**

Plan	Plan Year Ended September 30, 2014				
R	=	2I , where			
		M1+M2-I			
Ι	=	the interest, dividends, plus appreciation or (depreciation)			
M1	=	beginning market value			
M2	=	ending market value			
R	=	2 X \$2,114,744			
		(\$27,316,942 + \$30,507,856 - \$2,114,744)			
R	=	\$4,229,488			
		\$55,710,055			
R	=	7.59%			

## Additional Disclosures

There are no additional disclosures required under Rules 22D-1.003(4)(f) and (g) of the State of Florida, Department of Management Services, Division of Retirement.



Actuarial Concepts

## CITY OF BOCA RATON EXECUTIVE EMPLOYEES' RETIREMENT PLAN

#### SUMMARY OF PLAN PROVISIONS THAT AFFECT THE VALUATION

## **Definitions**

1.	Ordinances:	Original Ordinance #4745 Amendment #4805 Amendment #4839 Amendment #4925 Amendment #5021 Amendment #5152
2.	Plan Year:	October 1 through September 30.
3.	Member:	All eligible managers hired on or after December 1, 2003, and before November 1, 2007, must participate upon date of hire. All eligible managers hired after November 1, 2007 may elect to participate. Managers actively employed as of November 30, 2003, may elect to participate as of December 1, 2003. Managers are divided into four divisions: Division 1 – Positions classified as D-1, D-2 and
		D-3 Division 2 – Positions designated as D-4 and higher D classifications Division 3 – Assistant City Manager, Senior Assistant City Attorney and all department heads (positions classified as DD) Division 4 – City Manager and City Attorney
4.	Member Contributions:	For all divisions, 11% of Compensation accumulated at 5% interest, compounded annually.
5.	Vesting Service:	The number of full and fractional years worked from the later of date of hire or Effective Date to date of termination or retirement, plus any past service purchased as provided below.

Vesting Service credit may be purchased for fulltime employment with the City of Boca Raton prior to the Effective Date either by (1) payment to the Plan within 30 days of Effective Date of 70% of the full actuarial cost of such service credit, or (2) payment to the Plan before separation of employment or entry into DROP 100% of the full actuarial cost of such service credit. Service that is credited under the General or Police and Firefighters Plan may not be purchased unless the member transfers to this Plan.

Up to 5 additional years of Vesting Service credit may be purchased for periods of employment interrupted by military service by payment of the contributions that would have been required of the Member during such period of service, plus interest.

6. Benefit Service: Total of Vesting Service plus any past service purchased as provided below.

Five additional years of Benefit Service credit purchased for prior full-time may be employment with the federal government, including active duty in the armed forces, or any state, county or city government (excluding the City of Boca Raton), by payment of the full actuarial cost of such service credit. If such prior service is deemed ineligible for purposes of a higher benefit rate, may be purchased under the same terms and conditions that is equivalent to increased benefits that would be applicable if such prior service were eligible for purchase.

7. Compensation: Base wages excluding all extra forms of compensation such as longevity pay, payments for car allowance, dependent medical insurance and lump-sum payouts of accumulated leave, but including salary reductions or deferrals to any salary reduction, deferred compensation or



tax-sheltered annuity program related to such base wages.

8. Average Final Compensation: Divisions 1-3 – 1/60th of the average Compensation of the 130 best pay periods of the last 260 pay periods prior to termination.

Division 4 - 1/60th of the average Compensation of the 52 best pay periods of the last 260 pay periods prior to termination.

9. Accrued Benefit: A monthly annuity benefit equal to a percentage of Average Final Compensation times Benefit Service payable in accordance with the standard form of annuity, starting at the Normal Retirement Date as provided below:

Division 1 - 3.05%Division 2 - 3.15%Division 3 - 3.25%Division 4 - 4.55% for the first 10 years and 3.35% thereafter.

For employees who become Members after September 30, 2010, the lowest benefit multiplier in the EERP shall be equal to the greatest multiplier provided to Option C of the General Employees Pension Plan (GEPP).

Division 1 – Same percentage as greatest multiplier provided to Option C of the GEPP plus six-tenths (0.6).

Division 2 – Division 1 percentage plus one-tenth (0.10).

Division 3 – Division 2 percentage plus one-tenth (0.10)

Division 4 – Division 3 percentage plus one-tenth (0.10)

A Member's annual benefit may not exceed the lesser of 90% (80% for those who became Members after September 30, 2010) of the Member's Average Final Compensation or the



maximum adjusted benefit defined in IRC Section 415(b).

<u>Standard Form of Annuity</u> — Division 1 – 25% joint-and-survivor Division 2 – 50% joint-and-survivor Division 3 – 75% joint-and-survivor Division 4 – 100% joint-and-survivor

10. Normal Retirement: <u>Eligibility Date</u> — The earliest of age 55 and completion of 10 years of Vesting Service and age 65 and completion of 6 years of Vesting Service. Special age-65 normal retirement eligibility to transition Members who join on Effective Date.

For employees who become Members after September 30, 2010, conditions for Normal Retirement are age 65 with at least 6 years of Vesting Service, or age 58 with at least 10 years of Vesting Service.

<u>Benefit</u> — Accrued Benefit payable as of the Normal Retirement Date in the standard form of annuity.

11. Early Retirement: Members prior to October 1, 2010:

<u>Eligibility Date</u> — Age 50 and completion of 10 years of Vesting Service. Special involuntary termination conditions apply to Division 4 Members.

<u>Benefit</u> — Accrued Benefit as of the Early Retirement Date payable at Normal Retirement Date or payable at the Early Retirement Date and reduced for Division 1, 2 and 3 Members by 5/12% and for Division 4 Members 2/12% for each month by which commencement of benefit precedes Normal Retirement.

Members after September 30, 2010:



		<u>Eligibility Date</u> — For employees who become Members after September 30, 2010, conditions for Early Retirement are age 53 with 10 years or more of Vesting Service.
		<u>Benefit</u> — Same as other except "reduced for Division 1, 2 and 3 Members by 5/12% for each month by which Benefit Commencement Date precedes age 58; and for Division 4 Members by 1/6% for each month preceding age 58.
12.	Disability Benefit:	<u>Eligibility</u> — Total and permanent disability; no service requirement.
		<u>Benefit</u> — 60% of Average Final Compensation as of date of disability payable starting at age 65 as the standard form of benefit, with Average Final Compensation indexed at 2% per year from disability to age 65.
13.	Death Benefit before Termination:	Members prior to October 1, 2010:
		<u>Eligibility</u> — Death while actively employed.
		<u>Benefit</u> —
		<u>Age 55 with 6 or More Years of Service</u> — Accrued Benefit at time of Member's death payable to beneficiary for life as follows:
		Division 1 –25% of Accrued Benefit Division 2 –50% of Accrued Benefit Division 3 –75% of Accrued Benefit Division 4 –100% of Accrued Benefit
		<u>6 or More Years of Service but Under Age 55</u> Division 1 –25% of Accrued Benefit Division 2 –50% of Accrued Benefit Division 3 –75% of Accrued Benefit
		<u>6 or More Years of Service but Under Age 50</u> Division 4 –100% of Accrued Benefit



If the Member is actively employed but has less than 6 years of Vesting Service at date of death, the beneficiary shall receive a refund of Member Contributions with interest at 5%. Special eligibility conditions apply for Members who join the Plan on the Effective Date and die with less than 6 years of service.

Members after September 30, 2010:

The above is applicable except the references to age 55 shall be age 58 and to age 55 shall be age 53

If the Member terminated employment and is not eligible to receive immediate retirement benefits at date of death, the beneficiary shall receive a refund of Member Contributions with interest at 5%.

If the Member terminated employment and is eligible to receive immediate retirement benefits but payments have not yet commenced at date of death, payments shall be made to the beneficiary as if the Member had elected to receive benefits commencing on the day before the date of death or a refund of Member Contributions with interest at 5%, if greater.

If the Member dies after payment of retirement benefits has commenced, death benefits will be subject to the terms of the optional benefit form elected.

Special involuntary termination conditions apply to Members who joined as of the Effective Date.

A terminating Member with less than 6 years of Vesting Service will receive a refund of Member

14. Death Benefit after Termination:

15. Termination Benefit:



Contributions with interest at 5%. A terminating Member with 6 or more years of Vesting Service but less than 10 will receive the Accrued Benefit as of the termination date payable at age 65; or with 10 or more years of Vesting Service and less than age 50, payable at age 55.

Special vesting conditions apply to Members who joined on the Effective Date who terminated with less than 6 years of service, and special normal retirement conditions apply during the first 3 years of the Plan to Members who joined on the Effective Date and are involuntarily terminated under certain conditions.

- Standard (Unreduced)
   Form of Payment:
   Division 1 25% joint-and-survivor annuity
   Division 2 50% joint-and-survivor annuity
   Division 3 75% joint-and-survivor annuity
   Division 4 100% joint-and-survivor annuity
- 17. Optional Forms of Payment: Life annuity; 5-years-certain-and-life;
   100%/75%/50% joint-and-survivor annuity;
   actuarial equivalent to normal form.

18. Cost-of-Living Increase: <u>Eligibility</u> — Members who began participating on the Effective Date are eligible irrespective of when termination occurs; all other Members are eligible if they terminate after becoming eligible for immediate early or normal retirement benefits.

<u>Benefit</u> — 2%-per-year increase for Divisions 1, 2 and 3 and 3%-per-year increase for Division 4 in current monthly benefit commencing on October 1 following 5 years after retirement (pro rata for less than 12 months since the fifth anniversary of retirement).

19. Health Supplement:Eligibility — Members who terminate with 10 or<br/>more years of Benefit Service and are eligible for<br/>immediate early or normal retirement benefits.



<u>Benefit</u> — \$10 per month times Benefit Service payable to retirees under standard form of annuity, reduced 5% per year if Member had less than 25 years of service and retirement is before age 55 or age 58, as applicable. Not subject to optional forms of annuity; cost-of-living adjustments apply in the same percentage at the same time as applicable to the regular Plan benefit.

Special eligibility conditions apply to Members who joined the Plan on the Effective Date and purchased Vesting Service for at least 50% of their prior service, and reduction is 5% for Divisions 1, 2 and 3 or 2% for Division 4 Members.

<u>Eligibility</u> — Age 55 (or age 58 for employees who become Members after September 30, 2010) with 10 or more years of Vesting Service for Divisions 1, 2 and 3, and age 50 (or age 53 for employees who become Members after September 30, 2010) with 10 or more years of Vesting Service for Division 4 Members.

<u>Benefit</u> — Members may elect to retire from the Plan while still employed and accumulate monthly retirement payments in a separate account within the Plan for a period not to exceed 60 months. Separation from employment must occur within a 36-month period. DROP account is credited with fund earnings as elected by the Member.



20. DROP:

#### ACTUARIAL ASSUMPTIONS AND ACTUARIAL COST METHOD SUMMARY

#### **Actuarial Assumptions**

1.	Investment Return:	7.50% per annum, compounded annually*; net of investment expense.			
2.	Salary Increase Rate:	Years of Se	rvice	Rate*	
	5	2 and Ur	der	6.0%	
		3 - 4		5.0	
		5 - 6		4.0	
		7 and O	ver	3.25	
		For fiscal y in salaries i	vear end s limited	2014 the as to 1%.	ssumed increase
3.	Mortality Rates:	RP-2000 C	ombined	Healthy N	Mortality Table-
	<i>y</i>	Dynamic w	vith proje	ction to val	uation year
		5	Prob	ability of D	eath
			Wit	hin Ône Ye	ar
			After At	taining Age	<u>e Shown</u>
		<u>Age</u>	Male	_	<u>Female</u>
		25	0.03%	0	0.02%
		35	0.07		0.04
		45	0.13		0.09
		55	0.28		0.24
		65	1.05		0.90
4.	Disability Mortality Rates:		Pro	bability of	Death
			V	Vithin One	Year
		<u>After Attaining Age Shown</u>			<u>ge Shown</u>
		<u>Age</u>	Male	_	<u>Female</u>
		25	0.17%	0	0.09%
		35	0.37		0.21
		45	0.66		0.48
		55	1.50		1.25
		65	5.53		4.62

\*Includes underlying long-term rate of inflation of 3% per annum.



#### 5. Termination Rates:

6.

7.

## Probability of Terminating Service (for reasons other than death, disability or retirement) Within One Year <u>After Attaining Age and Service Shown</u>

<u>Males &amp; Females</u>						
		Years of Service				
<u>Age</u>	<u>0 - 1</u>	<u>2</u>	<u>3</u>	$\underline{4}$	<u>5+</u>	
Under 25	15.0%	10.0%	8.0%	7.0%	7.0%	
30	15.0	10.0	8.0	7.0	5.5	
35	15.0	10.0	8.0	7.0	4.3	
40	15.0	10.0	8.0	7.0	3.0	
45	15.0	10.0	8.0	7.0	2.3	
50 and Over	15.0	10.0	8.0	7.0	1.5	
Retirement Rates:		Probability of Retiring				
		Within One Year				
After Attaining Age and Vesting Service Sho			vice Shown			
			Ye	ears of Servic	e	
		Age	0 - 9	10 - 19	20	
		50 - 54	0.0%	2.5%	10.0%	
	55 - 61		0.0	10.0	25.0	
		62 - 64	0.0	25.0	50.0	
		65 - 69	0.0	50.0	50.0	
		70 & Over	100.0	100.0	100.0	
Disability Rates:			Proba	ability of Disa	ability	
Within One Ye			ithin One Ye	ar		

	Within One Year
<u>Age</u>	After Attaining Age Shown
25	0.06%
35	0.06
45	0.16
55	0.60
65	1.00

8. Actuarial Value of Assets:

Determined by adjusting the expected value of assets as of any valuation date by a portion of the cumulative differences of the market value of assets and the expected actuarial value of assets starting prospectively from October 1, 2003. (As of October 1, 2003, expected value



was set equal to market value.) Each difference is fully recognized over a period not to exceed five years. The expected actuarial value of assets as of any valuation date is determined by applying actual Plan contributions and disbursements and the assumed investment yield to the previous year's expected actuarial value of assets adjusted for any fully cumulative differences. The recognized adjustment is further modified, if necessary, by an amount sufficient to ensure that the actuarial value of assets is not less than 80% nor more than 120% of market value.

- 9. Marital Status and Spouse's Age: 85% of members assumed to be married; male spouses assumed three years older than female members, and female spouses assumed three years younger than male members.
  10. Growth Rate of Future
- 10. Grown Rate of Future Membership Payroll: 3.5% per year.
  11. Underlying Long-term Inflation Rate: 3.0% per year.

## Actuarial Cost Method

To determine the Plan's contribution requirements, the Individual Entry Age Actuarial Cost Method was used. Under this method, the cost of each member's projected retirement benefit is funded through a series of annual payments, determined as a level percentage of each year's earnings from age at hire to assumed exit age. This level percentage, known as normal cost, is thus computed as though the Plan had always been in effect. A yearly normal cost for each member is individually determined by multiplying each member's level percentage by the applicable yearly earnings, then adding together to obtain the normal cost amount for the Plan for that year. The accrued value of normal cost payments due prior to the valuation date is termed the actuarial accrued liability (AAL). This amount minus the actuarial value of assets is



known as the unfunded actuarial accrued liability (UAAL). The annual cost of a plan has two components: normal cost and an amortization payment, which may vary between prescribed limits, toward the UAAL.

It is intended that the UAAL bases established due to increases or decreases in liabilities attributable to changes in plan provisions and/or actuarial assumptions be amortized over 30 years from inception through monthly contributions expressed as a level percentage of each month's payroll, incorporating an assumption that future payroll will grow at the rate of 3.5% per year. Increases or decreases in liabilities due to experience gains will be amortized over 15 years from inception.

The cost method uses the effective date of the Plan as the entry age for all members who joined as of the effective date. To the extent that past service is purchased, the increase in actuarial present values (APVs) is allocated entirely to the AAL and the entry age projected is unchanged. Future employee entry age will also be set at the date of Plan entry and will not change if past service is purchased. Members who transfer as active members from the general employees' plan will inherit the entry age associated with asset liability transfers to this Plan, if any.

#### **Miscellaneous Valuation Procedures**

- 1. Projected retirement benefits were limited to IRC Section 415 benefit limits applicable to the current plan year (for 2014, \$210,000), payable as a life annuity, beginning at or after age 62, reduced as applicable for earlier benefit commencement with assumed increases equal to the assumed long-term rate of inflation.
- 2. Projected earnings were limited to IRC Section 401(a)(17) compensation limits applicable to the current plan year (for 2014, \$260,000) with assumed increases equal to the assumed long-term rate of inflation.



- 3. Annual covered payroll is the amount of total pensionable earnings paid during the prior fiscal year for employees who are currently active members in the Plan. Valuation payroll is payroll expected to be paid during the current fiscal year, determined using prior-year covered payroll and the salary increase assumption by individual member.
- 4. Member information is current as of October 1, 2014.
- 5. No liability was recognized in the valuation for nonvested employees who have terminated, whether or not a break in service has occurred as of the valuation date, since any potential liability for this group is not significant. Note that upon rehire, any applicable prior employment service credits will be fully recognized in the valuation.
- 6. The effect of member contributions on the funding of normal cost requirements has been recognized through subtracting the member contribution rate from the total Plan normal cost rate to determine the net City portion.



TRUST FUND BALANCE AS OF 9/30/14		Market
		Value
Cash and Equivalents		\$ 317,104
Diversified Small Cap Portfolio		4,217,485
Diversified Value Portfolio		2,885,647
International Blend Portfolio		2,917,358
Broad Market High Quality Bond Portfolio		3,710,118
Core Plus Fixed Income		5,803,005
High Quality Growth Portfolio		3,107,620
Russell 1000 Index Portfolio		8,752,073
Reserve - DROP		(1,214,346)
Accrued Contribution		-
Receivable from General Plan		11,792
Total		\$ 30,507,856
Asset Percentage Weightings		
Cash	1.00%	
Equity	69.00%	
Bond	30.00%	
Alternative Investments	<u>0.00%</u>	
Total	100.00%	



## **ANALYSIS OF CHANGES IN ACTUARIAL VALUE OF ASSETS**

Actuarial Value of Assets as of 9/30/13	\$ 25,402,538
Add:	
City Contributions	1,458,974
Member Contributions	584,950
Rollover Contributions	143,927
Prior Year Reserve - DROP	559,852
Realized Gains\(Losses)*	-
Unrealized Gains\(Losses)*	-
Investment Earnings	2,807,532
Net Appreciation (Depreciation)	457,575
Total Additions	\$ 6,012,810
Deduct:	
Benefit Payments	1,088,490
DROP Payments	-
Refund of Contributions	-
Reserve - DROP	1,214,346
Administrative Expenses	23,192
Investment Expenses	38,294
Total Deductions	\$ 2,364,322
Actuarial Value of Assets as of 9/30/14	29,051,026

(includes \$5,841,631 in accumulated member contributions)

\* The FMTPF Fund is a Pooled Trust and the ability to distinguish this is not available.



# DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS AS OF 10/1/14

1.	Market Value of Assets as of 10/1/14	\$ 30,507,856
2.	Expected Value of Assets as of 10/1/14	27,982,310
3.	Current Year's Difference	(100,832)
4.	20% of Current Difference [(3)x0.2]	(20,166)
5.	Previous Year's Cumulative Adjustments*	1,088,882
6.	Preliminary Actuarial Value of Assets [(2)+(4)+(5)]	29,051,026
7.	80% of Market Value [(1)x0.8]	24,406,285
8.	120% of Market Value [(1)x1.2]	36,609,427
9.	Actuarial Value of Assets within 20% of Market Value Corridor at 10/1/14	29,051,026



Actuarial Concepts

#### CITY OF BOCA RATON EXECUTIVE EMPLOYEES' RETIREMENT PLAN

#### DEVELOPMENT OF ACTUARIAL VALUE OF ASSETS AS OF 10/1/14

Ex	pected Value		2014
Pre	evious Year's:		
1.	Expected Value	\$	26,384,705
2	Previous Years' Fully Recognized Difference		(1,505,236)
3.	Interest on (1) and (2)		1,928,159
4.	Contributions with Interest		2,328,638
5.	Benefit Payments with Interest		1,129,882
6.	Administrative Expenses with Interest		24,074
Cu	irrent Year's:		
7.	Expected Value [(1)+(2)+(3)+(4)-(5)-(6)]	\$	27,982,310
Cu	imulative Differences		
1.	Market Value (MV)		30,507,856
2	Expected Value (EV)		27,982,310
3.	Cumulative Difference [(1)-(2)]	\$	2,525,546
4.	Original Differences by Year		
	Initial	Inte	rest-Adjusted
			Amount
	(a) 2007 569,575		
	(b) 2008 (3,480,347)		
	(c) 2009 (1,111,533)		
	(d) 2010 205,944	\$	278,243
	(e) 2011 (1,344,021)		(1,681,349)
	(f) 2012 2,342,471		2,719,624
	(g) 2013 1,215,648		1,309,860
	(h) 2014 (100,832)		(100,832)
Ac	tuarial Value		
1.	MV at 10/14		30,507,856
2	EV at 10/14		27,982,310
3.	Current Year's Difference		(100,832)
4.	20% of Current Difference [(3)x0.2]		(20,166)
5.	Previous Years' Cumulative Adjustments		1,088,882 *
6.	Preliminary AV [(2)+(4)+(5)]		29,051,026
7.	80% of MV [(1)x0.8]		24,406,285
8.	120% of MV [(1)x1.2]		36,609,427
9.	AV within 20% MV Corridor at 10/14		29,051,026

\* From "Cumulative Differences" [(0.4 x (4g)) + (0.6 x (4f)) + (0.8 x (4e)) + (1.0 x (4d))]

#### APPENDIX D-1

#### CITY OF BOCA RATON EXECUTIVE EMPLOYEES' RETIREMENT PLAN

#### RECONCILIATION OF PLAN MEMBERS 10/01/13 - 10/01/14

	Actives	Retirees, Beneficiaries	DROP Retirees	Disabled Retirees	Vested Terminateds	Pending Refunds
10/01/13 Members	41	17	6		8	1
Increase (Decrease) Due to:						
Retirements	-	-	-	-	-	-
<b>DROP Retirement</b>	(2)	-	2	-	-	-
Nonvested Terminations	(1)	-	-	-	-	-
Vested Terminations	(1)	-	-	-	1	-
New Entrants	1	-	-	-	-	-
Deaths	-	-	-	-	-	-
Rehires	-	-	-	-	-	-
Disableds	-	-	-	-	-	-
From LP Status	-	-	-	-	-	-
Lump-Sum Payment	-	-	-	-	-	-
Transfers	2	-	-	-	-	-
10/01/14 Members	40	17	8		9	1

ACTIVE MEMBERS 10/01/14	Number
Vested Active	32
Non-Vested Active	8
Total	40

#### **INACTIVE MEMBERS 10/01/14**

	Number	Annual Benefit Amount		
Retirees and Beneficiaries				
Currently Receiving Payments	17	\$ 1,085,317		
DROP Retirees	8	686,792		
Disableds Receiving Payments	-	-		
Vested Terminated Members				
Entitled to Future Benefits	9	257,662		
Pending Refunds	1	*		
Total	35	\$ 2,029,771		

\* Reserve equals \$45,322



## **RECONCILIATION OF DROP ACCOUNT**

		Payments	Investment			
	Value as of	Credited to	Earnings		Value as of	
<u>Name</u>	<u>9/30/2013</u>	<u>Account</u>	Credited	<u>Withdrawals</u>	9/30/2014	
AHERN	\$-	\$ 85,001.95	\$ 1,745.40	\$-	\$ 86,747.35	
FICHERA	51 <i>,</i> 914.59	84,137.04	8,080.40	-	144,132.03	
GOMEZ	118,269.11	130,769.88	16,226.99	-	265,265.98	
HESS	147,744.21	98,301.36	503.00	-	246,548.57	
HIMES	-	38,893.75	32.43	-	38,926.18	
KREE	50,456.64	50,388.36	194.58	-	101,039.58	
PARKS	41,848.52	83,636.04	218.08	-	125,702.64	
WELLINGS	149,618.93	55,914.48	450.25	-	205,983.66	
Totals	\$ 559,852.00	\$ 627,042.86	\$ 27,451.13	\$-	\$ 1,214,345.99	



## DISTRIBUTION OF ACTIVE MEMBERS BY ATTAINED AGE AND COMPLETED YEARS OF VESTING SERVICE AS OF 10/01/14

=		Completed Years of Service										
Attained Age	0	1	2	3 - 4	5 - 9	10 - 14	15 <b>- 19</b>	20 -24	25 - 29	30 - 34	35 & Over	Total
Under 25	0	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0	0	0	0
30-34	0	0	2	0	0	0	0	0	0	0	0	2
35-39	0	0	0	1	2	0	0	0	0	0	0	3
40-44	0	1	2	0	0	0	0	2	0	0	0	5
45-49	0	0	0	0	3	2	1	0	0	0	0	6
50-54	0	0	0	1	5	3	1	4	0	0	0	14
55-59	0	0	0	1	1	1	1	0	0	1	0	5
60	0	0	0	0	0	1	0	0	0	0	0	1
61	0	0	0	0	0	0	0	0	0	0	0	0
62	0	0	0	0	0	0	1	0	0	0	0	1
63	0	0	0	0	0	1	0	0	0	0	0	1
64	0	0	0	0	0	0	0	0	0	0	0	0
65 & Over	0	0	0	0	2	0	0	0	0	0	0	2
Total	0	1	4	3	13	8	4	6	0	1	0	40

Average Age at Entry = 38.9 Average Age at Valuation = 50.5 Average Years of Service = 11.6



## DISTRIBUTION OF ACTIVE MEMBERS AND EARNINGS BY AGE AND SEX AS OF 10/01/14

			Males			Females		Combined		
		, 4	2013-14	Average	2013-14		Average		2013-14	Average
<u>Attained Age</u>	<u>Number</u>	Ē	<u>arnings</u>	<u>Earnings</u>	<u>Number</u>	<u>Earnings</u>	<u>Earnings</u>	<u>Number</u>	<u>Earnings</u>	<u>Earnings</u>
Under 25	-	<b>Ş</b>	-	<b>\$</b> -	-	<b>\$</b> -	<b>\$</b> -	-	\$ -	<b>\$</b> -
25-29	-		-	-	-	-	-	-	-	-
30-34	1		25,443	25,443	1	76,991	76,991	2	102,434	51,217
35-39	2		171,641	85,821	1	57,983	5 <b>7,98</b> 3	3	229,624	76,541
40-44	3		302,489	100,830	2	150,620	75,310	5	453,109	90,622
45-49	3		315,046	105,015	3	300,136	100,045	6	615,182	102,530
50-54	8		934,082	116,760	6	671,577	111,930	14	1,605,659	114,690
55 <b>-</b> 59	3		411,783	137,261	2	222,000	111,000	5	633,783	126,757
60	1		116,169	116,169	-	-	-	1	116,169	116,169
61	-		-	-	-	-	-	-	-	-
62	1		94,860	94,860	-	-	-	1	94,860	94,860
63	1		159,376	159,376	-	-	-	1	159,376	159,376
64	-		-	-	-	-	-	-	-	-
65 & Over	-		-	-	2	209,251	104,626	2	209,251	104,626
Total	23	\$	2,530,889	\$ 110,039	17	\$ 1,688,558	\$ 99,327	40	\$ 4,219,447	\$105,486

