

Actuarial Valuation and Review as of July 1, 2015





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September 8, 2016

Retirement Board
The Employee Retirement System of the City of Providence
City Hall
Providence, RI 02903

Dear Board Members:

We are pleased to submit this Actuarial Valuation and Review as of July 1, 2015. It summarizes the actuarial data used in the valuation, establishes the funding requirements for fiscal 2016 and later years and analyzes the preceding year's experience.

This report was prepared in accordance with generally accepted actuarial principles and practices at the request of the Board to assist in administering the Retirement System. The census information and financial information on which our calculations were based was prepared by the staff of the System. That assistance is gratefully acknowledged.

The measurements shown in this actuarial valuation may not be applicable for other purposes. 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.

An actuarial valuation is a measurement at a specific date – it is not a prediction of a plan's future financial condition. We have not been retained to perform an analysis of the potential range of financial measurements, except where otherwise noted.

The actuarial calculations were directed under the supervision of Kathleen A. Riley, FSA, MAAA, EA. She is a member of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of her knowledge, the information supplied in the actuarial valuation is complete and accurate. Further, in her opinion, the assumptions as approved by the Board are reasonably related to the experience of and the expectations for the Plan.

 $We \ look \ forward \ to \ reviewing \ this \ report \ at \ your \ next \ meeting \ and \ to \ answering \ any \ questions.$ 

Sincerely,

Segal Consulting, a Member of The Segal Group, Inc.

*B*v:

Kathleen A. Riley, FSA, MAAA, EA

Senior Vice President and Actuary

Villiam J. Connol**l**y, FCA,

Consulting Actuary

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#### **Purpose**

This report has been prepared by Segal Consulting to present a valuation of The Employee Retirement System of the City of Providence as of July 1, 2015. The valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits. The contribution requirements presented in this report are based on:

- > The benefit provisions of The Employee Retirement System of the City of Providence, as administered by the Board;
- > The characteristics of covered active participants, inactive participants, and retired participants and beneficiaries as of July 1, 2015;
- > The assets of the Plan as of June 30, 2015;
- > Economic assumptions regarding future salary increases and investment earnings; and
- > Other actuarial assumptions, regarding employee terminations, retirement, death, etc.

Certain disclosure information required by Governmental Accounting Standards Board Statements (GASB) Numbers 67 and 68 as of June 30, 2015 for The Employee Retirement System of the City of Providence is provided in a separate report.

# Significant Issues in Valuation Year

The following key findings were the result of this actuarial valuation:

- 1. The actuarial valuation report as of July 1, 2015 is based on financial information as of that date. Changes in the value of assets subsequent to that date are not reflected.
- 2. During the year ended June 30, 2015, the market value rate of return was 3.59%, compared to the assumed rate of return of 8.25%. Because the actuarial value of assets gradually recognizes market value fluctuations at 20% per year over a five-year period, the actuarial rate of return for the year ended June 30, 2015 was 10.47%. The actuarial value of assets as of June 30, 2015 was \$353.5 million, or 100.7% of the market value of assets of \$351.1 million. As of June 30, 2014, the actuarial value of assets was 94.6% of the market value.
- 3. The total unrecognized investment loss as of July 1, 2015 is \$2,452,549. This investment loss will be recognized in the determination of the actuarial value of assets in the next few years, to the extent it is not offset by recognition of investment gains derived from future experience. This implies that earning the assumed rate of investment return (net of investment expenses) on a market value basis will result in investment losses on the actuarial value of assets in the next few years. The funding schedule shown in Section 2, Chart 16 reflects the deferred investment losses.



- 4. The following actuarial assumptions were changed with this valuation:
  - The investment return assumption was lowered from 8.25% to 8.00%.
  - > The mortality assumption for Class A non-disabled participants was changed from the RP-2000 Combined Healthy Mortality Table projected 21 years with Scale AA to the RP-2014 Employee and Healthy Annuitant Mortality Tables with MP-2014 improvement projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward 1 year post-retirement.
  - > The mortality assumption for Class B non-disabled participants was changed from the RP-2000 Combined Healthy Blue Collar Mortality Table projected 21 years with Scale AA to the RP-2014 Blue Collar Employee and Healthy Annuitant Mortality Tables with MP-2014 improvement projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward 1 year post-retirement.
  - > The mortality assumption for disabled participants was changed from the RP-2000 Healthy Annuitant Mortality Table set forward three years to the RP 2014 Blue Collar Healthy Annuitant Mortality Table with MP-2014 improvement projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward three years.

The change in assumptions increased the unfunded liability by \$57.3 million.

- 5. The unfunded liability has increased by \$57.5 million from \$894.3 million as of July 1, 2014 to \$951.8 million as of July 1, 2015. The unfunded liability was expected to increase to \$908.4 million. The difference between the expected unfunded liability of \$908.4 million and the actual unfunded liability of \$951.8 million is attributable to the \$57.3 million increase in liabilities due to the change in assumptions changes, offset by an investment gain on an actuarial basis of \$7.3 million and an experience gain of \$6.6 million.
- 6. Because the fiscal 2016 appropriation has already been budgeted at \$70,858,867 and the fiscal 2017 appropriation has already been budgeted at \$73,217,543, the results of this valuation will be phased-in over two years beginning in fiscal 2018 with an appropriation of \$78,123,118. The funding schedule in Chart 16 fully funds the System by June 30, 2040. The unfunded liability, less the liability associated with the 1995 Deferral, is amortized through June 30, 2040. As of July 1, 2016, there are 24 years remaining on this schedule. The amortization payments are initially calculated to increase 3.5% per year. The 1995 deferral liability is amortized through June 30, 2031 in level payments. Recommended contributions are assumed to be paid on June 30. If the contribution is made before or after June 30, Segal will calculate the change in interest charge based on the actual date of payment.

Chart 16 in Section 2 shows the detail of the funding schedule.



7. On a market value basis, the funded ratio has decreased from 29.0% as of July 1, 2014 to 26.9% as of July 1, 2015. On an actuarial basis, the funded ratio has decreased from 27.4% as of July 1, 2014 to 27.1% as of July 1, 2015. The decrease is due to the change in investment return and mortality assumptions.

# **Summary of Key Valuation Results**

	2015	2014
Contributions for plan year beginning July 1:		
Recommended for fiscal 2016 and 2015	\$70,858,867	\$66,543,967
Recommended for fiscal 2017 and 2016	73,217,543	70,858,867
Actual contribution for fiscal 2015		66,876,000
Funding elements for plan year beginning July 1:		
Total normal cost, without interest	\$19,533,554	\$17,782,678
Market value of assets	351,068,000	357,712,000
Actuarial value of assets	353,520,549	338,253,329
Actuarial accrued liability	1,305,338,091	1,232,590,168
Unfunded actuarial accrued liability	951,817,542	894,336,839
Funded ratio based on market value of assets	26.9%	29.0%
Funded ratio based on actuarial value of assets	27.1%	27.4%
Demographic data for plan year ending June 30:		
Number of retired participants and beneficiaries	3,094	3,108
Number of inactive participants entitled to a return of employee contributions	390	393
Number of inactive participants with a vested right to a deferred or immediate benefit	42	35
Number of active participants	3,012	2,986
Total compensation	\$140,908,879	\$137,504,822
Average compensation	46,782	46,050

Note: Recommended contributions are assumed to be paid on June 30. If the contribution is made before or after June 30, Segal will calculate the change in interest charge based on the date of payment.



#### **Important Information About Actuarial Valuations**

An actuarial valuation is a budgeting tool with respect to the financing of future projected obligations of a pension plan. It is an estimated forecast – the actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.

In order to prepare a valuation, Segal Consulting ("Segal") relies on a number of input items. These include:

- > <u>Plan of benefits</u> Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. Even where they appear precise, outside factors may change how they operate. It is important to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan summary included in our report to confirm that Segal has correctly interpreted the plan of benefits.
- **Participant data** An actuarial valuation for a plan is based on data provided to the actuary by the System. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data.
- > <u>Assets</u> The valuation is based on the market value of assets as of the valuation date, as provided by the System. The System uses an "actuarial value of assets" that differs from market value to gradually reflect year-to-year changes in the market value of assets in determining the contribution requirements.
- Actuarial assumptions In preparing an actuarial valuation, Segal projects the benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. This projection requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of each participant for each year. In addition, the benefits projected to be paid for each of those events in each future year reflect actuarial assumptions as to salary increases and cost-of-living adjustments. The projected benefits are then discounted to a present value, based on the assumed rate of return that is expected to be achieved on the plan's assets. There is a reasonable range for each assumption used in the projection and the results may vary materially based on which assumptions are selected. It is important for any user of an actuarial valuation to understand this concept. Actuarial assumptions are periodically reviewed to ensure that future valuations reflect emerging plan experience. While future changes in actuarial assumptions may have a significant impact on the reported results, that does not mean that the previous assumptions were unreasonable.

The user of Segal's actuarial valuation (or other actuarial calculations) should keep the following in mind:

- > The actuarial valuation is prepared at the request of the System. Segal is not responsible for the use or misuse of its report, particularly by any other party.
- > An actuarial valuation is a measurement of the plan's assets and liabilities at a specific date. Accordingly, except where otherwise noted, Segal did not perform an analysis of the potential range of future financial measures. The actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.
- > If the System is aware of any event or trend that was not considered in this valuation that may materially change the results of the valuation, Segal should be advised, so that we can evaluate it.
- > Segal does not provide investment, legal, accounting, or tax advice. Segal's valuation is based on our understanding of applicable guidance in these areas and of the plan's provisions, but they may be subject to alternative interpretations. The System should look to their other advisors for expertise in these areas.

As Segal Consulting has no discretionary authority with respect to the management or assets of the Plan, it is not a fiduciary in its capacity as actuaries and consultants with respect to the Plan.



#### A. PARTICIPANT DATA

The Actuarial Valuation and Review considers the number and demographic characteristics of covered participants, including active participants, inactive participants, retired participants and beneficiaries. This section presents a summary of significant statistical data on these participant groups.

More detailed information for this valuation year and the preceding valuation can be found in Section 3, Exhibits A, through H.

A historical perspective of how the participant population has changed over the past eight valuations can be seen in this chart.

CHART 1
Participant Population: 2007 – 2015

Year Ended June 30	Active Participants	Inactive Participants	Retired Participants and Beneficiaries	Ratio of Non-Actives to Actives
2007	3,083	179	2,821	0.97
2008	3,008	237	2,875	1.03
2009	2,955	455	2,883	1.13
2010	2,998	432	2,929	1.12
2011	2,987	435	2,999	1.15
2013	2,998	407	3,094	1.17
2014	2,986	428	3,108	1.18
2015	3,012	432	3,094	1.17

Note: Participants who retired on June 30, but were not in pay status, were included as active participants.



#### **Active Participants**

Plan costs are affected by the age, years of service and compensation of active participants. In this year's valuation, there were 3,012 active participants with an average age of 46.8, average years of service of 12.8 years and average compensation of \$46,782. The 2,986 active participants in the prior valuation had an average age of 46.8, average service of 12.9 years and average compensation of \$46,050.

Among the active participants, there were none with unknown age and/or service information.

#### **Inactive Participants**

In this year's valuation, there were 42 participants with a vested right to a deferred or immediate vested benefit and 390 participants entitled to a return of their employee contributions.

These graphs show a distribution of active participants by age and by years of service.

CHART 2
Distribution of Active Participants by Age as of June 30, 2015

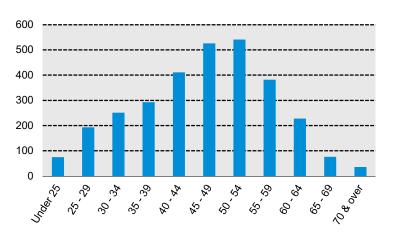
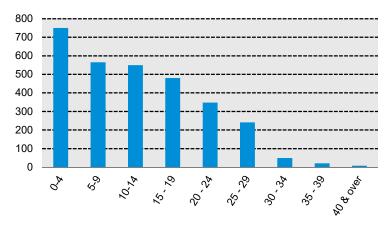


CHART 3

Distribution of Active Participants by Years of Service as of June 30, 2015





#### **Retired Participants and Beneficiaries**

As of June 30, 2015, 2,563 retired participants and 531 beneficiaries were receiving total monthly benefits of \$7,530,395. For comparison, in the previous valuation, there were 2,562 retired participants and 546 beneficiaries receiving monthly benefits of \$7,490,244. There were three retired participants in suspended status this year and one retired participants in the prior valuation.

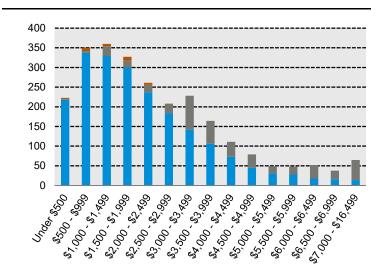
These graphs show a distribution of the current retired participants based on their monthly amount and age, by type of pension.



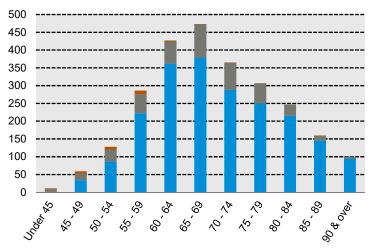
■ Accidental Disability

■ Service

# CHART 4 Distribution of Retired Participants by Type and by Monthly Amount as of June 30, 2015



# CHART 5 Distribution of Retired Participants by Type and by Age as of June 30, 2015

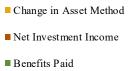




#### **B.** FINANCIAL INFORMATION

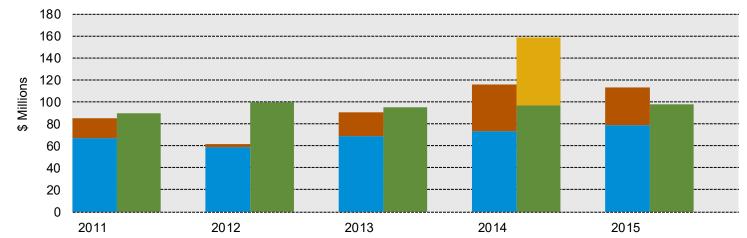
Retirement plan funding anticipates that, over the long term, both contributions and net investment earnings (less investment fees and administrative expenses) will be needed to cover benefit payments. Retirement plan assets change as a result of the net impact of these income and expense components. Additional financial information, including a summary of these transactions for the valuation year, is presented in Section 3, Exhibits I and J.

The chart depicts the components of changes in the actuarial value of assets over the last five years. Assets as of July 1, 2014 no longer include the discounted contribution expected to be paid by the City for the fiscal year following the valuation date. Note: The first bar represents increases in assets during each year while the second bar details the decreases.



■ Total Contributions

# CHART 6 Comparison of Increases and Decreases in the Actuarial Value of Assets for Years Ended June 30, 2011 – 2015





It is desirable to have level and predictable plan costs from one year to the next. For this reason, the Board has approved an asset valuation method that gradually adjusts to market value. Under this valuation method, the full value of market fluctuations is not recognized in a single year and, as a result, the asset value and the plan costs are more stable.

The amount of the adjustment to recognize market value is treated as income, which may be positive or negative. Realized and unrealized gains and losses are treated equally and, therefore, the sale of assets has no immediate effect on the actuarial value.

The chart shows the determination of the actuarial value of assets as of the valuation date.

CHART 7

Determination of Actuarial Value of Assets for Year Ended June 30, 2015

1. Market value of assets, June 30, 2015			\$351,068,000
1. Market value of assets, Julie 30, 2013	Original	Unrecognized	\$331,000,000
	Original	Onfecognized	
2. Calculation of unrecognized return*	Amount	Return	
(a) Year ended June 30, 2015	-\$16,214,261	-\$12,971,409	
(b) Year ended June 30, 2014	18,753,464	11,252,078	
(c) Year ended June 30, 2013	9,709,109	3,883,644	
(d) Year ended June 30, 2012	-23,084,313	-4,616,862	
(e) Year ended June 30, 2011	39,320,798	0	
(f) Total unrecognized return			-2,452,549
3. Preliminary actuarial value: (1) - (2f)			353,520,549
4. Adjustment to be within 20% corridor			0
5. Final actuarial value of assets as of June 30, 2015: (3) + (4)			<u>\$353,520,549</u>
6. Actuarial value as a percentage of market value: $(5) \div (1)$			100.7%

<sup>\*</sup> Unrecognized return is the difference between the total return and the expected return on a market value basis and is recognized at 20% per year over a five-year period.



Both the actuarial value and market value of assets are representations of the System's financial status. As investment gains and losses are gradually taken into account, the actuarial value of assets tracks the market value of assets. The actuarial asset value is significant because the System's liabilities are compared to these assets to determine what portion, if any, remains unfunded. Amortization of the unfunded actuarial accrued liability is an important element in determining the contribution requirement.

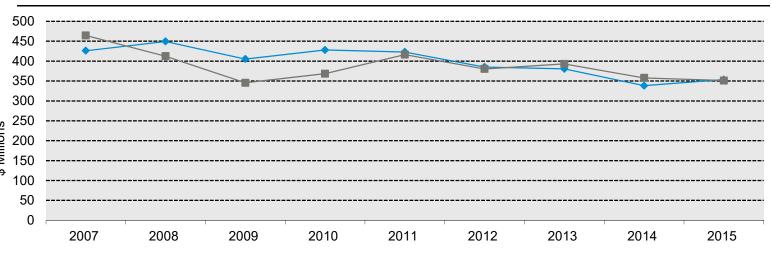
This chart shows the change in the actuarial value of assets versus the market value over the past nine years. Assets as of July 1, 2013 and earlier years include the discounted contribution expected to be paid by the City for the fiscal year following the valuation date.

Actuarial Value

── Market Value

CHART 8

Actuarial Value of Assets vs. Market Value of Assets as of June 30, 2007 – 2015





#### C. ACTUARIAL EXPERIENCE

To calculate the required contribution, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year actual experience is measured against the assumptions. If overall experience is more favorable than anticipated (an actuarial gain), the contribution requirement will decrease from the previous year. On the other hand, the contribution requirement will increase if overall actuarial experience is less favorable than expected (an actuarial loss).

Taking account of experience gains or losses in one year without making a change in assumptions reflects the belief that the single year's experience was a short-term

development and that, over the long term, experience will return to the original assumptions. For contribution requirements to remain stable, assumptions should approximate experience.

If assumptions are changed, the contribution requirement is adjusted to take into account a change in experience anticipated for all future years.

The net experience gain is \$13,966,093. A discussion of the major components of the actuarial experience is on the following pages.

This chart provides a summary of the actuarial experience during the past year.

# CHART 9 Actuarial Experience for Year Ended June 30, 2015

1.	Net gain from investments*	\$7,302,299
2.	Net gain from other experience**	<u>6,663,794</u>
3.	Net experience gain: $(1) + (2)$	\$13,966,093

<sup>\*</sup> Details in Chart 10



<sup>\*\*</sup> Details in Chart 13

#### **Investment Rate of Return**

A major component of projected asset growth is the assumed rate of return. The assumed return should represent the expected long-term rate of return, based on the System's investment policy. For valuation purposes, the assumed rate of return on the actuarial value of assets for the year ended June 30, 2015 is 8.25%. The actual rate of return on an actuarial basis for the 2015 plan year was 10.47%.

Since the actual return for the year was greater than the assumed return, the System experienced an actuarial gain of \$7,302,299 during the year ended June 30, 2015 with regard to its investments.

This chart shows the gain/(loss) due to investment experience.

# CHART 10 Actuarial Value Investment Experience for Year Ended June 30, 2015

1. Act	tual return	\$34,418,220
2. Ave	erage value of assets	328,677,829
3. Act	tual rate of return: $(1) \div (2)$	10.47%
4. Ass	sumed rate of return	8.25%
5. Exp	pected return: (2) x (4)	\$27,115,921
6. Act	tuarial gain: $(1) - (5)$	<u>\$7,302,299</u>

Because actuarial planning is long term, it is useful to see how the assumed investment rate of return has followed actual experience over time. The chart below shows the rate of return on an actuarial basis compared to the market value investment return for the last five years, including the five-year averages. Based upon this experience and future expectations, we have changed the assumed rate of return to 8.00%. We will continue to monitor the System's assumed investment return.

CHART 11
Investment Return – Actuarial Value vs. Market Value: 2011 - 2015

	Change in Asse	t Method	Actuarial Val Investment Re		Market Va Investment F	
Year Ended June 30	Amount	Percent	Amount	Percent	Amount	Percent
2011			N/A	3.42%	N/A	21.33%
2012			\$3,391,254	0.97	\$5,100,797	1.49
2013			18,132,553	5.70	35,563,000	11.35
2014	-\$61,472,487	-19.74%	38,601,141	12.39	45,484,000	14.04
2015	<u></u>		<u>34,418,220</u>	10.47	12,507,000	3.59
Total	-\$61,472,487		\$94,543,168		\$98,654,797	
			Five-year average return	6.39%		10.12%

Note: Each year's yield is weighted by the average asset value in that year.

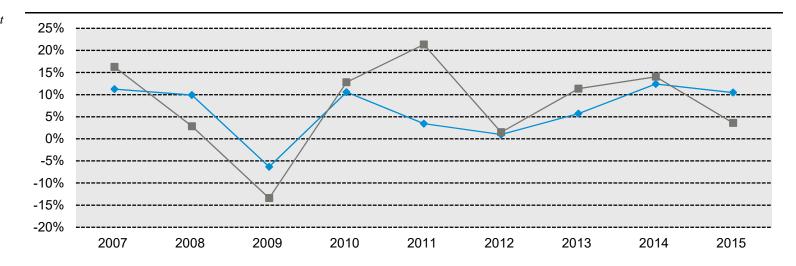


Subsection B described the actuarial asset valuation method that gradually takes into account fluctuations in the market value rate of return. The effect of this is to stabilize the actuarial rate of return, which contributes to leveling pension plan costs.

This chart illustrates how this leveling effect has actually worked over the years 2007 - 2015. Note: investment returns are net of investment expenses.

CHART 12

Market and Actuarial Rates of Return for Years Ended June 30, 2007 - 2015



Actuarial Value

**─**■ Market Value



#### Other Experience

There are other differences between the expected and the actual experience that appear when the new valuation is compared with the projections from the previous valuation. These include:

- > the extent of turnover among the participants,
- > retirement experience (earlier or later than expected),
- mortality (more or fewer deaths than expected),
- > the number of disability retirements, and
- > salary increases different than assumed.

The net gain from this other experience for the year ended June 30, 2015 amounted to \$6,663,794, which is 0.5% of the actuarial accrued liability.

A brief summary of the demographic gain/(loss) experience of the System for the year ended June 30, 2015 is shown in the chart below.

This valuation reflects the following changes in actuarial assumptions and methods:

- > The investment return assumption was lowered from 8.25% to 8.00%.
- > The mortality assumption for Class A non-disabled participants was changed from the RP-2000 Combined Healthy Mortality Table projected 21 years with Scale AA to the RP-2014 Employee and Healthy Annuitant Mortality Tables with MP-2014 improvement projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward 1 year post-retirement.
- ➤ The mortality assumption for Class B non-disabled participants was changed from the RP-2000 Combined Healthy Blue Collar Mortality Table projected 21 years with Scale AA to the RP-2014 Blue Collar Employee and Healthy Annuitant Mortality Tables with MP-2014 improvement projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward 1 year post-retirement.

The chart shows elements of the experience gain/(loss) for the most recent year.

# CHART 13 Experience Due to Changes in Demographics for Year Ended June 30, 2015

Gain due to Fewer retirements than expected amongst active members	\$7,593,669
2. Gain due to more deaths than expected amongst retired members and beneficiaries	6,684,570
3. Loss due to turnover experience	-346,340
4. Loss due to fewer disabled retirements than expected	-476,340
5. Salary experience near expectations	-7,147
6. Miscellaneous loss including previously unreported participants and other changes	<u>-6,784,618</u>
7. Net experience gain	\$6,663,794



➤ The mortality assumption for disabled participants was changed from the RP-2000 Healthy Annuitant Mortality Table set forward three years to the RP 2014 Blue Collar Healthy Annuitant Mortality Table with MP-2014 improvement projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward three years.

The change in assumptions increased the unfunded liability by \$57.3 million.

The unfunded liability has increased by \$57.5 million from \$894.3 million as of July 1, 2014 to \$951.8 million as of July 1, 2015. The unfunded liability was expected to increase to \$908.4 million. The difference between the expected unfunded liability of \$908.4 million and the actual unfunded liability of \$951.8 million is attributable to \$57.3 million increase in liabilities due to assumption changes, offset by an investment gain on an actuarial basis of \$7.3 million and an experience gain of \$6.6 million.

CHART 14
Development of Unfunded Actuarial Accrued Liability and (Gain)/Loss for Year Ended June 30, 2015

	. ,	•	
1.	Unfunded actuarial accrued liability at beginning of year		\$894,336,839
2.	Normal cost at beginning of year		17,782,678
3.	Employer contributions		-66,876,000
4.	Employee contributions		-11,624,000
5.	Interest		
	(a) For whole year on $(1) + (2)$	\$75,249,860	
	(b) For half year on (4)	<u>-433,242</u>	
	(c) Total interest		<u>74,816,618</u>
6.	Expected unfunded actuarial accrued liability		\$908,436,135
7.	Changes due to:		
	(a) Investment gain	-\$7,302,299	
	(b) Other experience gain	-6,663,794	
	(c) Assumptions	<u>57,347,500</u>	
	(d) Total changes		43,381,407
8.	Unfunded actuarial accrued liability at end of year		<u>\$951,817,542</u>



#### D. CONTRIBUTION FOR FISCAL YEAR BEGINNING JULY 1, 2016

The annual contribution required to fund the System is comprised of an employer normal cost payment and a payment on the unfunded actuarial accrued liability.

The contribution requirements as of July 1, 2016 are based on all of the data described in the previous sections, the actuarial assumptions described in Section 4, and the Plan provisions adopted at the time of preparation of the Actuarial Valuation. They include all changes affecting future costs, adopted benefit changes, actuarial gains and losses and changes in the actuarial assumptions.

Because the fiscal 2016 appropriation has already been budgeted at \$70,858,867 and the fiscal 2017 appropriation has already been budgeted at \$73,217,543, the results of this valuation will be phased-in over two years beginning in fiscal 2018.

To determine the unfunded liability as of July 1, 2016, the liabilities are rolled forward using standard actuarial techniques and the actuarial value of assets are projected based on an anticipated employer contribution of

The chart compares this valuation's recommended contribution with the prior valuation.

CHART 15
Recommended Contribution

			Year Beginn	ing July 1	
		2015		2014	
		Amount	% of Pay	Amount	% of Pay
1.	Total normal cost	\$19,533,554	13.39%	\$17,782,678	12.48%
2.	Expected employee contributions	<u>-11,501,902</u>	<u>-7.88%</u>	<u>-11,200,356</u>	<u>-7.86%</u>
3.	Employer normal cost: $(1) + (2)$	\$8,031,652	5.51%	\$6,582,322	4.62%
4.	Actuarial accrued liability	1,305,338,091		1,232,590,168	
5.	Actuarial value of assets	353,520,549		338,253,329	
6.	Unfunded actuarial accrued liability (UAAL): (4) - (5)	\$951,817,542		\$894,336,839	
The	actuarial factors projected to the following fiscal year are:				
7.	Employer normal cost as of July 1, 2016 and July 1, 2015, adjusted for timing	9,010,533	5.97%	7,374,752	5.00%
8.	Unfunded actuarial accrued liability as of July 1, 2016 and July 1, 2015	968,610,593		898,627,043	
9.	Amortization of 1995 Deferral, adjusted for timing	464,222	0.31%	471,667	0.32%
10.	Payment on remaining unfunded actuarial accrued liability as of July 1, 2016				
	and July 1, 2015, adjusted for timing	63,742,788	42.22%	63,012,448	42.72%
11.	Total fiscal 2017 and 2016 contribution: $(7) + (9) + (10)$	<u>\$73,217,543</u>	<u>48.49%</u>	<u>\$70,858,867</u>	<u>48.04%</u>
12.	Projected compensation as of July 1, 2016 and July 1, 2015	\$150,980,061		\$147,491,458	



Notes: Recommended contributions are assumed to be paid on June 30. If the contribution is made before or after June 30, Segal will calculate the change in interest charge based on the date of payment.

\$70,858,867 for fiscal 2016 and assuming that the market value of assets return 8.00% net of investment expenses.

The unfunded liability, less the liability associated with the 1995 Deferral, is amortized through June 30, 2040. As of July 1, 2016, there are 24 years remaining on this schedule. The amortization payments are initially calculated to increase 3.5% per year. The 1995 Deferral liability is amortized through June 30, 2031 in level payments.

Chart 16 shows the appropriation through June 30, 2041.

Chart 16
Funding Schedule

										(11)	
(1)			(4)							Total	
Fiscal	(2)	(3)	Amortization	(5)			(8)	(9)	(10)	Unfunded	
Year	<b>Employer</b>	Amortization	of Remaining	Total Plan			Contributions	Actuarial	Actuarial	Actuarial	(12)
Ended	Normal	of Deferral	Unfunded	Cost	(6)	(7)	as a % of	Accrued	Value of	Accrued	Funded
June 30:	Cost	Liability	Liability	(2)+(3)+(4)	Increase	Payroll	Payroll	Liability	Assets	Liability	Ratio
2016	\$8,674,184	\$464,222	\$61,720,461	\$70,858,867		\$145,874,455	48.58%	\$1,305,338,091	\$353,520,549	\$951,817,542	27.08%
2017	9,010,533	464,222	63,742,788	73,217,543	3.33%	150,980,061	48.49%	1,325,731,690	357,121,097	968,610,593	26.94%
2018	9,359,850	464,222	68,299,046	78,123,118	6.70%	156,264,363	49.99%	1,353,222,135	373,271,201	979,950,934	27.58%
2019	9,722,635	464,222	73,170,510	83,357,367	6.70%	161,733,616	51.54%	1,381,946,768	392,149,741	989,797,027	28.38%
2020	10,099,404	464,222	75,842,782	86,406,408	3.66%	167,394,292	51.62%	1,412,300,495	412,932,251	999,368,244	29.24%
2021	10,490,692	464,222	78,497,280	89,452,194	3.52%	173,253,093	51.63%	1,443,800,316	440,789,616	1,003,010,700	30.53%
2022	10,897,059	464,222	81,244,685	92,605,965	3.53%	179,316,951	51.64%	1,477,067,398	472,777,344	1,004,290,054	32.01%
2023	11,319,079	464,222	84,088,249	95,871,550	3.53%	185,593,044	51.66%	1,512,396,178	509,471,825	1,002,924,353	33.69%
2024	11,757,356	464,222	87,031,337	99,252,915	3.53%	192,088,801	51.67%	1,549,092,807	550,486,975	998,605,832	35.54%
2025	12,212,511	464,222	90,077,434	102,754,167	3.53%	198,811,909	51.68%	1,586,399,315	595,400,575	990,998,740	37.53%
2026	12,685,193	464,222	93,230,144	106,379,559	3.53%	205,770,325	51.70%	1,624,614,269	644,877,286	979,736,983	39.69%
2027	13,176,072	464,222	96,493,199	110,133,493	3.53%	212,972,287	51.71%	1,663,902,246	699,480,670	964,421,576	42.04%
2028	13,685,847	464,222	99,870,461	114,020,531	3.53%	220,426,317	51.73%	1,704,582,781	759,964,899	944,617,882	44.58%
2029	14,215,240	464,222	103,365,927	118,045,389	3.53%	228,141,238	51.74%	1,746,762,027	826,909,398	919,852,629	47.34%
2030	14,765,004	464,222	106,983,735	122,212,961	3.53%	236,126,181	51.76%	1,790,870,769	901,260,079	889,610,690	50.33%
2031	15,335,919	464,222	110,728,166	126,528,306	3.53%	244,390,598	51.77%	1,837,014,721	983,683,132	853,331,589	53.55%
2032	15,928,795		114,603,651	130,532,446	3.16%	252,944,269	51.61%	1,885,668,358	1,075,262,629	810,405,729	57.02%
2033	16,544,472		118,614,779	135,159,252	3.54%	261,797,318	51.63%	1,937,536,701	1,176,902,165	760,634,536	60.74%
2034	17,183,825		122,766,296	139,950,121	3.54%	270,960,224	51.65%	1,993,095,934	1,290,225,414	702,870,520	64.73%
2035	17,847,758		127,063,117	144,910,875	3.54%	280,443,832	51.67%	2,053,143,073	1,416,809,208	636,333,865	69.01%
2036	18,537,215		131,510,326	150,047,541	3.54%	290,259,366	51.69%	2,118,224,249	1,558,046,792	560,177,457	73.55%
2037	19,253,170		136,113,187	155,366,357	3.54%	300,418,444	51.72%	2,189,092,903	1,715,611,575	473,481,328	78.37%
2038	19,996,637		140,877,149	160,873,786	3.54%	310,933,089	51.74%	2,266,302,855	1,891,056,208	375,246,647	83.44%
2039	20,768,671		145,807,849	166,576,520	3.54%	321,815,747	51.76%	2,350,894,725	2,086,505,495	264,389,230	88.75%
2040	21,570,364		150,911,124	172,481,487	3.54%	333,079,299	51.78%	2,443,309,816	2,303,577,297	139,732,519	94.28%
2041	22,402,849			22,402,849	87.01%	344,737,074	6.50%	2,544,408,839	2,544,408,839		100.00%

Notes: Recommended contributions are assumed to paid on June 30. If the contribution is made after June 30, Segal will calculate the additional interest charge based on the date of payment. Normal cost and amortization payments of remaining unfunded liability increase at 3.5% per year beginning with fiscal year 2019.

Assumes contribution of budgeted amount for fiscal year 2016 and fiscal year 2017.

Schedule reflects deferred investment gains or losses.

Normal cost is projected based on plan of benefits of current employees and does not reflect different benefits for new hires, if applicable.



Chart 17 shows the contribution for the fiscal year beginning July 1, 2016 for Class A and Class B.

**CHART 17 Contribution by Class and Department** 

	Clas	s A	Class B	- Police	Class B - Fire		Class B	- Total
	Amount	% of Pay	Amount	% of Pay	Amount	% of Pay	Amount	% of Pay
1. Total normal cost	\$8,929,451	10.08%	\$5,512,678	18.84%	\$5,091,425	18.16%	\$10,604,103	18.51%
2. Expected employee contributions	<u>-7,065,032</u>	<u>-7.98%</u>	-2,258,094	<u>-7.72%</u>	-2,178,776	<u>-7.77%</u>	<u>-4,436,870</u>	<u>-7.74%</u>
3. Employer normal cost: (1) + (2)	\$1,864,419	2.10%	\$3,254,584	11.12%	\$2,912,649	10.39%	\$6,167,233	10.76%
4. Actuarial accrued liability	457,789,489		399,349,745		448,198,857		847,548,602	
5. Actuarial value of assets	123,981,666		108,154,617		121,384,266		229,538,883	
6. Unfunded actuarial accrued liability (UAAL): (4) - (5)	\$333,807,823	9	\$291,195,128	:	\$326,814,591	;	\$618,009,719	
The actuarial factors projected to the follow	ing fiscal year	are:						
7. Employer normal cost as of July 1, 2016, adjusted for timing	2,099,020	2.29%	3,647,217	12.04%	3,264,296	11.25%	6,911,513	11.65%
8. Unfunded actuarial accrued liability as of July 1, 2016	339,697,241		296,332,725		332,580,627		628,913,352	
9. Amortization of 1995 Deferral, adjusted for timing	143,532	0.16%	150,029	0.50%	170,661	0.59%	320,690	0.54%
10. Payment on remaining unfunded actuarial accrued liability as of July 1, 2016, adjusted for timing	22,354,958	24.38%	19,501,205	64.38%	21,886,625	75.44%	41,387,830	69.79%
11. Total fiscal 2017 contribution: (7) + (9) + (10)	<u>\$24,597,510</u>	<u>26.83%</u>	\$23,298,451	<u>76.92%</u>	<u>\$25,321,582</u>	<u>87.28%</u>	\$48,620,033	<u>81.99%</u>
12. Projected compensation as of July 1, 2016	\$91,677,575		\$30,290,920		\$29,011,566		59,302,486	

Notes: Recommended contributions are assumed to be paid on June 30. If the contribution is made before or after June 30, Segal will calculate the change in interest charge based on the date of payment.



July 1, 2015 actuarial value of assets allocated in proportion to July 1, 2015 actuarial accrued liability.

July 1, 2016 unfunded actuarial accrued liability allocated in proportion to July 1, 2015 unfunded actuarial accrued liability. Class A includes Elected Officials.

Chart 18 shows the contribution for the fiscal year beginning July 1, 2016 for the departments of Class A.

CHART 18
Class A Contribution by Department

	Total Contribution	Projected Compensation
General	\$9,614,351	\$35,833,724
School	9,250,901	34,479,105
School Crossing Guards	252,505	941,114
Water	3,636,754	13,554,575
Workforce Development (JTPA)	289,749	1,079,925
Fire Civilians	393,251	1,465,691
Police Civilians	1,159,999	<u>4,323,441</u>
Total	\$24,597,510	\$91,677,575

Note: Contribution is allocated in proportion to projected compensation.



SECTION 3: Supplemental Information for The Employee Retirement System of the City of Providence

EXHIBIT A

Table of Plan Coverage – Class A

	Year End	ed June 30		
Category	2015	2014	Change From Prior Year	
Active participants in valuation:				
Number	2,158	2,123	1.6%	
Average age	48.3	48.1	N/A	
Average years of service	11.7	11.7	N/A	
Total compensation	\$85,583,048	\$83,059,219	3.0%	
Average compensation	39,659	39.125	1.4%	
Participant contributions	92,506,889	90,412,996	2.3%	
Inactive participants entitled to a refund of employee contributions	364	368	-1.1%	
Inactive participants with a vested right to a deferred or immediate benefit	40	35	14.3%	
Retired participants:				
Number in pay status	1,461	1,472	-0.7%	
Average age	72.2	72.1	N/A	
Average monthly benefit	\$1,540	\$1,513	1.8%	
Number in suspended status	3	1	200.0%	
Disabled participants:				
Number in pay status	86	89	-3.4%	
Average age	68.0	67.1	N/A	
Average monthly benefit	\$1,619	\$1,591	1.8%	
Beneficiaries in pay status:				
Number in pay status	195	207	-5.8%	
Average age	78.8	78	N/A	
Average monthly benefit	\$1,182	\$1,124	5.2%	

Note: Includes elected officials.



SECTION 3: Supplemental Information for The Employee Retirement System of the City of Providence

EXHIBIT B

Table of Plan Coverage – Class B

	Year End	ed June 30		
Category	2015	2014	Change From Prior Year	
Active participants in valuation:				
Number	854	863	-1.0%	
Average age	43.0	43.5	N/A	
Average years of service	15.5	16.0	N/A	
Total compensation	\$55,325,831	\$54,445,603	1.6%	
Average compensation	64,784	63,089	2.7%	
Participant contributions	88,296,591	90,983,797	-3.0%	
Inactive participants entitled to a refund of employee contributions	26	25	4.0%	
Inactive participants with a vested right to a deferred or immediate benefit	2	0	N/A	
Retired participants:				
Number in pay status	617	591	4.4%	
Average age	65.3	65.6	N/A	
Average monthly benefit	\$3,373	\$3,378	-0.1%	
Disabled participants:				
Number in pay status	399	410	-2.7%	
Average age	65.5	65.2	N/A	
Average monthly benefit	\$4,834	\$4,883	-1.0%	
Beneficiaries in pay status:				
Number in pay status	336	339	-0.9%	
Average age	74.7	74	N/A	
Average monthly benefit	\$2,679	\$2,627	2.0%	



SECTION 3: Supplemental Information for The Employee Retirement System of the City of Providence

EXHIBIT C
Participants in Active Service as of June 30, 2015 – Class A
By Age, Years of Service, and Average Compensation

	Years of Service												
Age	Total	0-4	5-9	10-14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39	40 & over			
Under 25	39	37	2										
	\$29,872	\$30,751	\$13,601										
25 - 29	115	94	21										
	\$33,976	\$34,749	\$30,518										
30 - 34	151	78	56	17									
	\$36,020	\$34,775	\$36,791	\$39,193									
35 - 39	195	63	58	41	33								
	\$39,620	\$41,749	\$35,459	\$42,396	\$39,418								
40 - 44	290	74	58	62	70	22	4						
	\$39,322	\$39,155	\$34,358	\$39,274	\$41,757	\$44,719	\$42,856						
45 - 49	349	86	60	64	70	49	20						
	\$41,655	\$33,226	\$32,364	\$42,108	\$44,977	\$56,785	\$55,622						
50 - 54	379	73	68	75	83	48	28	3	1				
	\$40,871	\$33,749	\$36,570	\$35,907	\$41,132	\$53,133	\$57,939	\$66,533	\$60,563				
55 - 59	311	51	54	55	73	43	25	7	3				
	\$40,255	\$33,174	\$32,902	\$37,117	\$38,090	\$49,912	\$56,015	\$69,482	\$65,286				
60 - 64	217	30	40	35	50	33	18	3	6	2			
	\$41,297	\$41,200	\$32,616	\$44,574	\$38,980	\$39,952	\$49,677	\$39,825	\$73,207	\$70,208			
65 - 69	76	10	16	15	9	4	13		3	6			
	\$41,976	\$37,110	\$38,766	\$39,628	\$48,587	\$68,208	\$37,914		\$37,965	\$47,917			
70 & over	36	2	6	12	9	4	2	1					
	\$34,548	\$18,468	\$29,648	\$37,467	\$34,433	\$34,537	\$39,374	\$52,499					
Total	2,158	598	439	376	397	203	110	14	13	8			
	\$39,659	\$35,621	\$34,364	\$39,556	\$40,965	\$50,208	\$52,476	\$61,282	\$62,274	\$53,490			



SECTION 3: Supplemental Information for The Employee Retirement System of the City of Providence

EXHIBIT D

Participants in Active Service as of June 30, 2015 – Class B
By Age, Years of Service, and Average Compensation

	Years of Service											
Age	Total	0-4	5-9	10-14	15 - 19	20 - 24	25 - 29	30 - 34	35 - 39			
Under 25	36	36										
	\$47,474	\$47,474										
25 - 29	78	62	16									
	\$51,065	\$48,785	\$59,901									
30 - 34	100	34	53	13								
	\$59,924	\$52,278	\$63,354	\$65,934								
35 - 39	98	13	31	53	1							
	\$61,997	\$49,330	\$61,447	\$65,317	\$67,731							
40 - 44	121	6	17	56	27	15						
	\$65,334	\$49,748	\$63,913	\$64,490	\$69,264	\$69,254						
45 - 49	177	1	8	34	36	69	29					
	\$68,530	\$61,909	\$63,898	\$64,812	\$68,158	\$70,107	\$71,105					
50 - 54	162		1	14	12	52	70	12	1			
	\$70,644		\$62,714	\$65,300	\$69,817	\$67,464	\$71,192	\$88,280	\$78,595			
55 - 59	71			4	5	8	30	19	5			
	\$73,341			\$63,183	\$60,296	\$65,674	\$69,881	\$84,219	\$86,201			
60 - 64	11				2	1	2	4	2			
	\$79,913				\$71,144	\$65,746	\$71,033	\$92,311	\$79,850			
Total	854	152	126	174	83	145	131	35	8			
	\$64,784	\$49,427	\$62,551	\$64,948	\$68,351	\$68,796	\$70,870	\$86,536	\$83,662			

EXHIBIT E Service Retirees as of June 30, 2015

	Cla	ass A	Cla	iss B	Total	
Age	Number	Amount	Number	Amount	Number	Amount
40-44	0	\$0	1	\$25,248	1	\$25,248
45-49	2	58,140	32	978,312	34	1,036,452
50-54	16	468,900	71	2,313,396	87	2,782,296
55-59	117	2,908,044	105	4,018,308	222	6,926,352
60-64	247	5,511,900	115	4,797,888	362	10,309,788
65-69	266	5,155,896	113	5,114,736	379	10,270,632
70-74	233	3,924,228	55	2,607,540	288	6,531,768
75-79	206	2,822,928	44	1,844,964	250	4,667,892
80-84	176	2,824,200	39	1,732,152	215	4,556,352
85-89	119	2,132,424	26	1,024,320	145	3,156,744
90-94	59	888,360	14	482,316	73	1,370,676
95-99	18	272,904	2	38,208	20	311,112
100 & over	<u>2</u>	<u>34,368</u>	<u>0</u>	<u>0</u>	<u>2</u>	34,368
Total	1,461	\$27,002,292	617	\$24,977,388	2,078	\$51,979,680

EXHIBIT F
Class A Disabled Retirees as of June 30, 2015

	Ordinary		Acci	dental	Total	
Age	Number	Amount	Number	Amount	Number	Amount
40-44	0	\$0	1	\$33,660	1	\$33,660
45-49	2	40,908	1	23,172	3	64,080
50-54	4	44,388	3	90,804	7	135,192
55-59	6	69,540	2	44,832	8	114,372
60-64	2	21,192	11	270,000	13	291,192
65-69	1	4,092	12	276,480	13	280,572
70-74	1	21,348	13	230,100	14	251,448
75-79	1	10,716	15	262,668	16	273,384
80-84	0	0	6	129,240	6	129,240
85-89	0	0	4	74,808	4	74,808
90-94	<u>0</u>	<u>0</u>	<u>1</u>	23,232	<u>1</u>	23,232
Total	17	\$212,184	69	\$1,458,996	86	\$1,671,180

EXHIBIT G Class B Disabled Retirees as of June 30, 2015

	Ord	inary	Acc	idental	Total		
Age	Number	Amount	Number	Amount	Number	Amount	
25-29	0	\$0	1	\$36,024	1	\$36,024	
30-34	0	0	0	0	0	0	
35-39	0	0	0	0	0	0	
40-44	2	35,232	6	235,788	8	271,020	
45-49	4	84,948	18	741,480	22	826,428	
50-54	4	87,432	30	1,217,616	34	1,305,048	
55-59	4	94,620	52	2,533,980	56	2,628,600	
60-64	1	10,044	51	2,733,048	52	2,743,092	
65-69	0	0	81	4,913,616	81	4,913,616	
70-74	0	0	63	4,197,036	63	4,197,036	
75-79	0	0	41	3,206,844	41	3,206,844	
80-84	0	0	26	2,017,560	26	2,017,560	
85-89	1	19,104	10	756,084	11	775,188	
90-94	0	0	3	185,952	3	185,952	
95-99	0	0	0	0	0	0	
100 & over	<u>0</u>	<u>0</u>	<u>1</u>	38,952	<u>1</u>	38,952	
Total	16	\$331,380	383	\$22,813,980	399	\$23,145,360	



SECTION 3: Supplemental Information for The Employee Retirement System of the City of Providence

EXHIBIT H
Beneficiaries as of June 30, 2015

Age	Class A		Class B		Total	
	Number	Amount	Number	Amount	Number	Amount
Under 20	0	\$0	2	\$31,704	2	\$31,704
20-24	0	0	0	0	0	0
25-29	0	0	0	0	0	0
30-34	0	0	0	0	0	0
35-39	0	0	0	0	0	0
40-44	1	7,944	0	0	1	7,944
45-49	2	56,004	4	97,836	6	153,840
50-54	2	14,652	9	246,516	11	261,168
55-59	11	153,504	17	397,500	28	551,004
60-64	16	282,408	36	1,145,448	52	1,427,856
65-69	14	233,652	48	1,458,132	62	1,691,784
70-74	22	328,968	41	1,479,492	63	1,808,460
75-79	21	286,164	40	1,685,532	61	1,971,696
80-84	33	462,060	55	2,025,504	88	2,487,564
85-89	40	580,476	55	1,614,960	95	2,195,436
90-94	18	206,568	27	585,780	45	792,348
95-99	10	106,560	1	14,712	11	121,272
100 & over	<u>5</u>	46,848	<u>1</u>	19,656	<u>6</u>	66,504
Total	195	\$2,765,808	336	\$10,802,772	531	\$13,568,580

EXHIBIT I
Summary Statement of Income and Expenses on an Actuarial Value Basis

	Year Ended June 30, 2015	Year Ended June 30, 2014	
Actuarial value of assets at the beginning of the year			
Net assets, including discounted contribution	\$338,253,329	\$380,484,015	
Discounted contribution	0	<u>-57,274,827</u>	
Net assets, without discounted contribution	\$338,253,329	\$323,209,188	
Contribution income:			
Employer contributions	\$66,876,000	\$62,140,000	
Employee contributions	<u>11,624,000</u>	10,873,000	
Net contribution income	78,500,000	73,013,000	
Net investment income	<u>34,418,220</u>	<u>38,601,141</u>	
Total income available for benefits	\$112,918,220	\$111,614,141	
Less benefit payments	-\$97,651,000	-\$96,570,000	
Change in reserve for future benefits	\$15,267,220	\$15,044,141	
Actuarial value of assets at the end of the year	\$353,520,549	\$338,253,329	

Note: Investment income is net of investment expenses.



## SECTION 3: Supplemental Information for The Employee Retirement System of the City of Providence

EXHIBIT J

Development of the Fund Through June 30, 2015

Year Ended June 30	Employer Contributions	Employee Contributions	Net Investment Return*	Benefit Payments	Actuarial Value of Assets at End of Year
2011	\$56,654,000	\$10,708,000	\$17,222,288	\$89,636,000	\$422,839,189
2012	48,583,000	10,291,000	3,391,253	99,273,000	385,106,813
2013	58,145,000	10,940,000	18,132,552	95,402,000	380,484,015
2014	62,140,000	10,873,000	38,601,141	96,570,000	338,253,329
2015	66,876,000	11,624,000	34,418,220	97,651,000	353,520,549

Notes: Net investment return is net of investment expenses.

Assets as of July 1, 2013 and earlier years include the discounted contribution expected to be paid by the City for the fiscal year following the valuation date.

Figures do not add due to the inclusion of discounted contributions in 2013 and earlier years.



#### **EXHIBIT K**

#### **Definitions of Pension Terms**

The following list defines certain technical terms for the convenience of the reader:

## Assumptions or actuarial assumptions:

The estimates on which the cost of the Plan is calculated including:

- (a) <u>Investment return</u> the rate of investment yield that the Plan will earn over the long-term future;
- (b) <u>Mortality rates</u> the death rates of employees and pensioners; life expectancy is based on these rates;
- (c) <u>Retirement rates</u> the rate or probability of retirement at a given age;
- (d) <u>Turnover rates</u> the rates at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement.

Normal cost:

The amount of contributions required to fund the benefit allocated to the current year of service.

Actuarial accrued liability for actives:

The equivalent of the accumulated normal costs allocated to the years before the valuation date.

Actuarial accrued liability for pensioners:

The single sum value of lifetime benefits to existing pensioners. This sum takes account of life expectancies appropriate to the ages of the pensioners and the interest that the sum is expected to earn before it is entirely paid out in benefits.

Unfunded actuarial accrued liability:

The extent to which the actuarial accrued liability of the Plan exceeds the assets of the Plan. There are many approaches to paying off the unfunded actuarial accrued liability, from meeting the interest accrual only to amortizing it over a specific period of time.



#### SECTION 3: Supplemental Information for The Employee Retirement System of the City of Providence

Amortization of the unfunded

actuarial accrued liability: Payments made over a period of years equal in value to the Plan's unfunded actuarial

accrued liability.

**Investment return:** The rate of earnings of the Plan from its investments, including interest, dividends and

capital gain and loss adjustments, computed as a percentage of the average value of the fund. For actuarial purposes, the investment return often reflects a smoothing of the capital gains and losses to avoid significant swings in the value of assets from one

year to the next.

EX	HIBIT I		
Su	mmary of Actuarial Valuation Results		
The	e valuation was made with respect to the following data supplied to us:		
1.	Retired participants as of the valuation date (including 546 beneficiaries in pay status and 1 retired participant in suspended status)		3,097
2.	Participants active during the year ended June 30, 2015, with projected fiscal 2016 payroll of \$145,874,455		3,012
3.	Inactive participants with a right to a return of their employee contributions as of June 30, 2015		42
4.	Inactive participants with a vested right to a deferred or immediate benefit as of June 30, 2015		390
The	e actuarial factors as of the valuation date are as follows:		
1.	Total normal cost		\$19,533,554
2.	Expected employee contributions		-11,501,902
3.	Employer normal cost: $(1) + (2)$		\$8,031,652
4.	Actuarial accrued liability		1,305,338,091
	Retired participants and beneficiaries	\$872,348,936	
	Inactive participants	11,393,712	
	Active participants	421,595,443	
5.	Actuarial value of assets (\$351,068,000 at market value)		353,520,549
6.	Unfunded actuarial accrued liability: (4) – (5)		951,817,542



#### **EXHIBIT I (continued)**

## **Summary of Actuarial Valuation Results**

The actuarial factors projected to July 1, 2016 are as follows:

1.	Employer normal cost, adjusted for timing	\$9,010,553
2.	Unfunded actuarial accrued liability	968,610,593
3.	Payment on 1995 deferral, adjusted for timing	464,222
4.	Payment on remaining unfunded actuarial accrued liability, adjusted for timing	63,472,788
5.	Total recommended fiscal 2016 contribution: $(1) + (3) + (4)$	<u>\$73,217,543</u>
6.	Projected compensation	\$150,980,081
7.	Total recommended contribution as a percentage of projected compensation: (5) ÷ (6)	48.49%

Notes: Recommended contributions are assumed to be paid on June 30. If the contribution is made before or after June 30, Segal will calculate the change in interest charge based on the date of payment.

Assumes contribution of budgeted amount for fiscal year 2016.

Recommended fiscal 2017 contribution is budgeted amount from prior valuation.

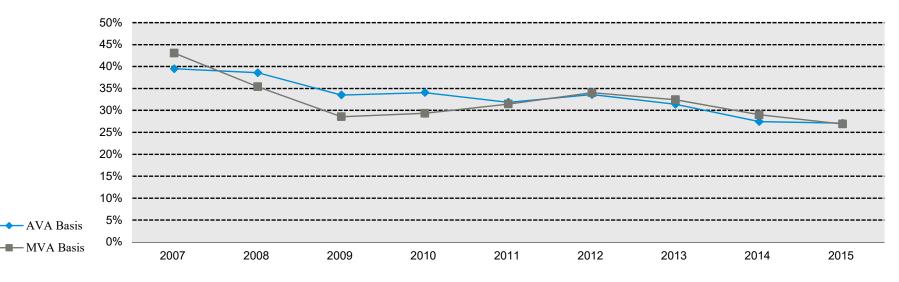


# EXHIBIT II Funded Ratio

A critical piece of information regarding the Plan's financial status is the funded ratio. This ratio compares the actuarial value of assets to the actuarial accrued liabilities of the Plan as calculated. High ratios indicate a well-funded plan with assets sufficient to cover the plan's actuarial accrued liabilities. Lower ratios may indicate recent changes to benefit structures, funding of the plan below actuarial requirements, poor asset performance, or a variety of other factors.

These measurements are not necessarily appropriate for assessing the sufficiency of System assets to cover the estimated cost of settling the System's benefit obligation or the need for or the amount of future contributions.

On a market value basis, the funded ratio has decreased from 29.0% as of July 1, 2014 to 26.9% as of July 1, 2015. On an actuarial value basis, the funded ratio has decreased from 27.4% as of July 1, 2014 to 27.1% as of July 1, 2015.





#### **EXHIBIT III**

#### **Actuarial Assumptions and Actuarial Cost Method**

## Rationale for Demographic and

**Noneconomic Assumptions:** The information and analysis used in selecting each assumption that has a significant

effect on this actuarial valuation is shown in the Actuarial Experience Review as of

June 30, 2015, dated March 25, 2016.

Mortality Rates: Pre-Retirement

Class A Healthy: RP-2014 Employee Mortality Table with MP-2014 improvement projections backed

out to a base year of 2006 and projected generationally with Scale BB2D (previously,

RP-2000 Combined Healthy Mortality Table projected 21 years with Scale AA)

Class B Healthy: RP 2014 Blue Collar Employee Mortality Table with MP-2014 improvement

projections backed out to a base year of 2006 and projected generationally with Scale BB2D (previously, RP-2000 Combined Healthy Blue Collar Mortality Table projected

21 years with Scale AA)

**Postretirement** 

Class A Healthy: RP-2014 Healthy Annuitant Mortality Table with MP-2014 improvement projections

backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward one year (previously, RP-2000 Combined Healthy Mortality Table projected

21 years with Scale AA)

Class B Healthy: RP-2014 Blue Collar Healthy Annuitant Mortality Table with MP-2014 improvement

projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward one year (previously, RP-2000 Combined Healthy Blue Collar

Mortality Table projected 21 years with Scale AA)

Class A and B Disabled Retirees: RP 2014 Blue Collar Healthy Annuitant Mortality Table with MP-2014 improvement

projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward three years (previously, RP-2000 Combined Healthy Mortality

Table set forward 3 years)



SECTION 4: Reporting Information for The Employee Retirement System of the City of Providence

**Termination Rates before Retirement:** 

Class A – Rate (%)
Mortality

	Current		Previous		
Age	Male	Female	Male	Female	Disability
20	0.05	0.02	0.02	0.01	0.02
25	0.05	0.02	0.03	0.02	0.03
30	0.05	0.02	0.04	0.02	0.05
35	0.06	0.03	0.07	0.04	0.08
40	0.08	0.05	0.09	0.05	0.10
45	0.12	0.08	0.11	0.08	0.18
50	0.20	0.12	0.15	0.12	0.22
55	0.30	0.17	0.24	0.23	0.28
60	0.50	0.28	0.48	0.46	0.36

Notes: Mortality rates do not reflect generational projection.

33.33% of the disability rates shown represent accidental disability.

40.00% of the death rates shown represent accidental death.

SECTION 4: Reporting Information for The Employee Retirement System of the City of Providence

# Class B – Rate (%) Mortality

	Current Pre		Previous		
Age	Male	Female	Male	Female	Disability
20	0.07	0.02	0.02	0.01	0.08
25	0.07	0.02	0.03	0.02	0.13
30	0.06	0.02	0.07	0.02	0.19
35	0.07	0.03	0.10	0.04	0.25
40	0.10	0.05	0.12	0.06	0.37
45	0.16	0.09	0.14	0.10	0.66
50	0.26	0.13	0.16	0.14	1.14
55	0.38	0.19	0.28	0.24	1.64
60	0.64	0.31	0.59	0.45	2.28

Notes: Mortality rates do not reflect generational projection. 90% of the disability rates shown represent accidental disability. 50% of the death rates shown represent accidental death.

Withdrawal Rates:	Rate per year (%)			
	Age	Class A	Age	Class B
	20	14.00	20	2.50
	25	11.50	25	1.90
	30	9.00	30	1.40
	35	6.50	35	0.90
	40	5.00	40	0.55
	45	3.75	45	0.35
	50	2.50	50	0.15
	55	1.25	55	0.00
	60	0.00	60	0.00



SECTION 4: Reporting Information for The Employee Retirement System of the City of Providence

Retirement Rates:		Rate per	year (%)	
	Age	Clas	Class A	
		Fewer than 10 Years of Service	10 Years of Service or More	
	40	2.00	4.50	5.50
	41	2.25	5.00	5.50
	42	2.50	5.50	5.50
	43	2.75	6.00	5.50
	44	3.00	6.50	5.50
	45	3.25	7.00	5.75
	46	3.50	7.50	6.00
	47	3.75	8.00	6.25
	48	4.00	8.50	6.50
	49	4.25	9.00	6.75
	50	4.50	9.50	7.00
	51	5.00	10.00	7.25
	52	5.50	10.50	7.50
	53	6.00	11.00	7.75
	54	6.50	11.50	8.00
	55	7.00	12.00	10.00
	56	7.00	12.00	12.50
	57	7.00	12.00	15.00
	58	7.00	12.00	17.50
	59	7.00	12.00	25.00
	60	10.00	12.50	100.00
	61	11.00	13.50	
	62	12.00	14.50	



SECTION 4: Reporting Information for The Employee Retirement System of the City of Providence

Retirement Rates (continued):	Rate per year (%)			
	Age	Clas	Class A	
		Fewer than 10 Years of Service	10 Years of Service or More	
	63	13.00	16.00	
	64	14.00	17.50	
	65	15.00	20.00	
	66 - 74	15.00	20.00	
	75	100.00	100.00	

Retirement Age for Vested Former Participants:

Vested former participants who terminated after June 30, 2013 Assumed to retire at minimum age for a Normal Service Retirement.

Vested participants who terminated prior to June 30, 2013 Assumed to take an immediate refund of their employee contributions.

Current active participants who terminate after valuation date
Participants in the Fire department who terminate with 20 or more years of service are
assumed to retire on their 25<sup>th</sup> anniversary of employment and who terminate with less
than 20 years of service are assumed to take an immediate refund of their employee
contributions. Other participants who terminate at age 45 or older and are vested are
assumed to retire at their minimum age for a Normal Service Retirement and who
terminate prior to age 45 or without vesting are assumed to take an immediate refund
of their employee contributions.

The retirement age for inactive vested participants was based on historical and current demographic data, adjusted to reflect economic conditions of the area and estimated future experience and professional judgment.

SECTION 4: Reporting Information for The Employee Retirement System of the City of Providence

Unknown Data for Participants:	retirees missing beneficiary informationare assumed to have a beneficiary of the	s with similar known characteristics. For on, Class A members who elected Option 2 or 3 ne opposite sex with males three years older id not elect Option 1 are assumed to be married		
Percent Married:	80%.			
Age of Spouse:	Females three years younger than male for Class B.	es for Class A. Females and males the same age		
<b>Benefit Election:</b>	All participants are assumed to elect the	e Maximum Retirement Option.		
Net Investment Return:	8.00% (previously, 8.25%)			
<b>Interest on Employee Contributions:</b>	4.00%, compounded weekly. No interest for inactive members after five years.			
Salary Increases:	3.5% per year, before reflecting longevity.			
	Base wages are increased by the follow compensation:	ving percentages to reflect longevity		
	•	Rate of base wage increase (%)		
	Class A			
	Years of Service	Hired on or before October 23, 1999		
	5 – 10	4%		
	10 – 15	5%		
	15 - 20	6%		
	20+	7%		
	Years of Service	Hired after October 23, 1999		
	7 – 12	3%		
	12 - 17	4%		
	17 - 20	5%		
	20+	6%		



	Rate of base wage increase (%)
Class B – Fire	<u> </u>
Years of Service	Hired on or before June 30, 1996
5 – 10	8%
10 - 15	9%
15 - 20	10%
20+	11%
Years of Service	Hired after June 30, 1996
5 - 10	7%
10 - 15	8%
15 - 20	9%
20+	10%
	Rate of base wage increase (%)
Class B – Police	
Years of Service	Hired on or before June 30, 1998
6 – 11	8%
11 – 16	9%
16 - 21	10%
21+	11%
Years of Service	Hired after June 30, 1998
6 – 11	7%
11 – 16	8%
16 - 21	9%
21+	10%

**Total Service:** 

Total service is based on date of hire provided in the data. In addition, 1.0 and 0.5 years of service were added to the service totals for participants of the Police and Fire departments, respectively, to estimate the impact of Purchased Service.

**2015 Salary:** 

Salaries for the year ending June 30, 2015 are equal to the total of pensionable wages earned during the plan year as provided in the data, except for participants who were hired during the plan year, those who were in transition from active to retiree status as of July 1, 2015 and participants receiving worker's compensation, for whom current rate of pay was provided.



COLA:	COLAs commence on January 1, 2023, except for participants identified by the City who opted out of the Consent Judgments agreed to by the City. For these participants, COLA's will commence on January 1, 2036, when the Plan was projected to be greater than 70% funded with the prior valuation. Any Class B retired participant whose total benefit is greater than the base of compensation of a current employee holding the same rank that the retiree held at the time of retirement will not receive a COLA in any year until this is no longer true. We have assumed that Class B average compensation for all ranks will increase by 3.5% per year. Future COLAs will not exceed 3% per year.
Actuarial Value of Assets:	Market value of assets as reported in the City's Financial Statement less unrecognized returns in each of the last five years. Unrecognized return is equal to the difference between the actual market return and the expected market return, and is recognized over a five-year period, further adjusted, if necessary, to be within 20% of the market value.
Actuarial Cost Method:	Entry Age Normal Actuarial Cost Method. Entry Age is the age of the participant at date of hire. Normal Cost and Actuarial Accrued Liability are calculated on an individual basis and are allocated by salary. Normal Cost is determined by using the plan of benefits applicable to each participant.
Justification for	
Changes in Assumptions:	Based on past experience and future expectations, the following assumptions were changed:
	➤ The investment return assumption was lowered from 8.25% to 8.00%.
	> The mortality assumption for Class A non-disabled participants was changed from the RP-2000 Combined Healthy Mortality Table projected 21 years with Scale AA to the RP-2014 Employee and Healthy Annuitant Mortality Tables with MP-2014 improvement projections backed out to a base year of 2006 and projected

generationally with Scale BB2D, set forward 1 year post-retirement.



- ➤ The mortality assumption for Class B non-disabled participants was changed from the RP-2000 Combined Healthy Blue Collar Mortality Table projected 21 years with Scale AA to the RP-2014 Blue Collar Employee and Healthy Annuitant Mortality Tables with MP-2014 improvement projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward 1 year post-retirement.
- > The mortality assumption for disabled participants was changed from the RP-2000 Healthy Annuitant Mortality Table set forward three years to the RP 2014 Blue Collar Healthy Annuitant Mortality Table with MP-2014 improvement projections backed out to a base year of 2006 and projected generationally with Scale BB2D, set forward three years.

#### **EXHIBIT IV**

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

This exhibit summarizes the major provisions of the Plan included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions.

Plan Year:

July 1 through June 30

#### **Normal Service Retirement**

Age and Service Requirements:

The minimum age for normal service retirement is:

Class A members hired prior to July 1, 1995:

Age 55 or the age at which 25 years of service are completed, if earlier.

Class A members hired between July 1, 1995 and June 30, 2004:

Age 55 or the age at which 30 years of service are completed, if earlier.

Class A members hired between July 1, 2004 and June 30, 2009:

Age 60 or the age at which 30 years of service are completed, if earlier.

Class A members hired on or after July 1, 2009:

Age 62 with 10 years of service or the age at which 30 years of service are completed, if earlier.

Class B members hired prior to July 1, 2004:

Age 55 or the age at which 20 years of service are completed, if earlier.

Class B members of the Police Department hired between July 1, 2004 and June 30, 2011 and Class B members of the Fire Department hired between July 1, 2004 and June 30, 2012:

Age 55 or the age at which 23 years of service are completed, if earlier.

Class B members of the Police Department hired on or after July 1, 2011 and Class B members of the Fire Department hired on or after July 1, 2012:

Age 55 or the age at which 25 years of service are completed, if earlier.



#### Amount:

Annuity Based on Member Contributions:

An annuity which is the actuarial equivalent of his or her accumulated contributions at the time of his or her retirement.

Pension Based on City Contributions:

#### Class A members hired prior to July 1, 1996:

A pension which, when added to the annuity, exclusive of any excess annuity, will give a total retirement allowance of 2.5% of final compensation for each year of total service credited not in excess of 20 years, plus 2% of final compensation for each year of total service credited in excess of 20 years, limited to 100% of final compensation.

#### Class A members hired on or after July 1, 1996:

A pension which, when added to the annuity, exclusive of any excess annuity, will give a total retirement allowance of 2% of final compensation for each year of total service credited, limited to 100% of final compensation.

## Fire:

A pension which, when added to the annuity, exclusive of any excess annuity, will give a total retirement allowance of 2.5% of final compensation for each year of total service credited not in excess of 20 years, plus 2% of final compensation for each year of total service credited in excess of 20 years, limited to 75% of final compensation.

### Police:

A pension which, when added to the annuity, exclusive of any excess annuity, equals:

Members hired prior to September 1, 2001:

 Years of Service	Percentage of Final Compensation	Years of Service	Percentage of Final Compensation
Prior to 20	2.5% per year	26	62%
20	50%	27	64%
21	52%	28	66%
22	54%	29	68%
23	56%	30	75%
24	58%	31	72%
25	65%	32	80%

Members hired on or after September 1, 2001 and prior to July 1, 2011:

Years of Service	Percentage of Final Compensation	Years of Service	Percentage of Final Compensation
Prior to 20	2.5% per year	26	62%
20	50%	27	64%
21	52%	28	66%
22	54%	29	68%
23	56%	30	70%
24	58%	31	72%
25	60%	32	75%

Members hired on or after July 1, 2011:

Years of Service	Percentage of Final Compensation	Years of Service	Percentage of Final Compensation
Prior to 25	2.0% per year	30	62.5%
25	50.0%	31	65.0%
26	52.5%	32	67.5%
27	55.0%	33	70.0%
28	57.5%	34	72.5%
29	60.0%	35	75.0%



For Non-Union members of the Police Department, the same benefits as described

above, but with a maximum benefit of 75% of compensation.

Final compensation is the average of the highest four years of base compensation including longevity pay earned by a member during his total service as an employee.

**Early Retirement:** 

Age Requirement: Age 55 for Class A members hired on or after July 1, 2004. Other members will not

receive early retirement benefits.

Service Requirement: 10 years of service.

Amount:

Class A members hired between July 1, 2004 and June 30, 2009:

The member's Normal Service Retirement benefit reduced by 5/12% per month

for each month between retirement commencement and age 60.

Class A members hired on or after July 1, 2009:

The member's Normal Service Retirement benefit reduced by 5/12% per month

for each month between retirement commencement and age 62.

**Deferred Retirement:** 

Age Requirement: Minimum age for Normal Service Retirement.

Service Requirement: 10 years of service.

Amount: Same as Normal Service Retirement.

Any member who withdraws from employment is eligible to receive a refund of his or her accumulated contributions at withdrawal, in lieu of a Deferred Retirement benefit.



#### **Ordinary Disability Retirement:**

Age Requirement:

None.

Service Requirement:

For members of the Police Department, 10 years of service, but fewer than 20. For all others, 10 years of service.

Amount:

Annuity Based on

Member Contributions:

An annuity which is the actuarial equivalent of his or her accumulated contributions at

the time of his retirement.

Pension Based on City Contributions:

#### Class A members:

A pension which, when added to the annuity, exclusive of any excess annuity, will give a total retirement allowance of 90% of 2% of final compensation for each year of total service which would have been credited had the member continued in service to the minimum age for a Normal Service Retirement. Such retirement allowance, exclusive of any excess annuity, is not to exceed 45% of final compensation.

#### Police:

A pension which, when added to the annuity, will give a total retirement allowance equal to a percentage of final compensation, as described in the following table:

Years of Service	Percentage of Final Compensation	Years of Service	Percentage of Final Compensation
10	22.50%	15	33.75%
11	24.75%	16	36.00%
12	27.00%	17	38.25%
13	29.25%	18	40.50%
14	31.50%	19	42.75%



#### Fire:

A pension which, when added to the annuity, exclusive of any excess annuity, will give a total retirement allowance of 90% of 2.5% of final compensation for each year of total service which would have been credited had the member continued in service to the minimum age for a Normal Service Retirement. Such retirement allowance, exclusive of any excess annuity, is not to exceed 45% of the member's final compensation.

#### **Accidental Disability Retirement:**

Age Requirement:

None.

Service Requirement:

None.

Amount:

Annuity Based on Member Contributions:

An annuity that is the actuarial equivalent of his or her accumulated contributions at the time of his or her retirement.

Pension Based on City Contributions:

A pension of 66-2/3% of final compensation, but not less than the Normal Service Retirement allowance. Upon the death of a member within 5 years after accidental disability retirement as a result of an accident while in the performance of duty, a pension of one-half of the member's final compensation is paid to his or her widow until he or she dies or remarries, at which point the pension is paid to his or her child or children until they attain age 19. Upon the death of a Class B member beyond 5 years, 67.5% of his or her monthly benefit will be paid to his or her surviving spouse.

#### **Accidental Death Benefit:**

Age Requirement:

Service Requirement: None.

Amount: If a member dies due to an accident in the performance of duty, a pension of one-half

of the member's final compensation is paid to his or her surviving spouse until he or she dies or remarries, at which point the pension is payable to his or her child or children until they attain age 19. If there are no other dependents, the pension is payable to his or her dependent parents. In addition, a lump sum payment of the

member's accumulated contributions is made.

Ordinary Death Benefit: Should a member die before retirement, his or her estate or beneficiary is entitled to a

refund of the member's accumulated contributions. If the member has attained minimum retirement age, has not made an optional election as described below and is survived by a spouse, such spouse is entitled, in lieu of the return of the member's accumulated contributions, to a benefit equal to that which would have been payable to such spouse upon the death of the member had the member retired on the day of his or her death and elected to receive a benefit under the provisions of Option 2, as described below, and nominated such spouse as his or her designated beneficiary. For a Class B member, the benefit to the spouse shall not be less than  $67\frac{1}{2}\%$  of the benefit

that would have been paid to such retired member without reduction.

#### **Benefit upon Death after Retirement:**

Class A: Benefits under any option as described below.

None.

Class B: Upon the death of a Class B pensioner,  $67\frac{1}{2}\%$  of his or her retirement allowance is paid to his or her surviving spouse until he or she dies or remarries, at which point the

benefit is paid to any dependent children until they attain age 18.

## **Options at Retirement:**

Maximum Retirement Option: An unreduced retirement allowance payable during the retired member's life, where

no monthly payments will continue to the member's beneficiary, but where, upon the member's death, any unpaid portion of his or her accumulated contributions will be

paid to his or her beneficiary.



Option 1:	A reduced retirement allowance payable during the retired member's life, where no monthly payments will continue to the member's beneficiary, but where, upon the member's death, any amount that payments made are less than the present value of his or her retirement allowance at his or her date of retirement will be paid to his or her beneficiary.
Option 2:	A reduced retirement allowance payable during the retired member's life, where upon the member's death, the entire monthly benefit will continue to be paid to his or her beneficiary for the remainder of his or her life.
Option 3:	A reduced retirement allowance payable during the retired member's life, where upon the member's death, 50% of the monthly benefit will continue to be paid to his or her beneficiary for the remainder of his or her life.
Option 4:	An unreduced retirement allowance payable during the retired member's life, where the member's accumulated contributions are paid immediately as a lump sum payment, with the pension portion of his or her benefit payable during the retired member's life, where no monthly payments will continue to the member's beneficiary.
	Class B members who retire on an Accidental Disability Retirement may not elect Option 4.
	Class B members may not elect Options 2 or 3.
	Married Class B members may not elect Option 1.
Cost of Living Adjustment	A ten-year freeze period was implemented effective January 1, 2013 and no COLAs will be granted during this period. COLAs will resume on January 1, 2023. Once COLAs resume, they will be paid in the amount of the lesser of 3% compounded or the percentage the member received prior to the freeze, provided that their total benefit is lower than 150% of the Rhode Island state median income and is lower than the base compensation of a current employee holding the same rank that the retiree held at the time of retirement. If the member's benefit is above either of these amounts, no COLA will be granted. 150% of the state median income as reported by the City was approximately \$80,000 as of the valuation date. It is assumed that the

median income will increase by 3.5% per year.

Class A: 3% compounded for certain eligible members who retired prior to December 18, 1991

and were not members of Local 1033. 3% simple on first \$12,000 of annual benefit for members of Local 1033 who retired prior to December 18, 1991. None for

members who retired after December 18, 1991.

Police: 5% compounded for members who retired prior to January 1, 1990; 6% compounded

for members who retired between January 1, 1990 and December 18, 1991; 5% compounded for members who retired between December 19, 1991 and December 31, 1992; 3% simple on first \$12,000 of annual benefit for Non-Union Police who retired January 1, 1993 and later; 3% compounded for other retired members who retired January 1, 1993 and later; 5% compounded for special court awarded members; for all members hired on or after July 1, 2012, the COLA will be based on the Consumer Price Index for the Northeast Region but shall not be less than 1% and shall not

exceed 3% simple and 150% of the Rhode Island state median income.

Fire: 5% compounded for members who retired prior to January 1, 1990; 6% compounded

for members who retired between January 1, 1990 and December 18, 1991; 5% compounded for members who retired between December 19, 1991 and June 30, 1992; 6% compounded for members who retired between July 1, 1992 and June 30, 1995; 3% simple on first \$12,000 of annual benefit for members who retired between July 1, 1995 and March 16, 2006; 3% compounded for members who retired March 17, 2006 or later; 5% compounded for special court awarded members; for all

members hired on or after July 1, 2012, the COLA will be based on the Consumer Price Index for the Northeast Region but shall not exceed 3% simple.

The initial COLA payment is deferred until the January 1 that occurs three years after

the member's retirement date.

#### **Provisions for Elected Officials**

Any person who has served as Mayor or City Councilman for at least eight full legislative years is entitled to an additional retirement allowance on the basis of such service as an elected official upon attainment of age 52 or the completion of 20 consecutive years as an elected official, whichever is earlier, or the occurrence of total and permanent disability prior thereto.

Such retirement allowance is currently \$350 for each year of service, provided that no more than 20 years of such service are to be used in determining the allowance.

Upon the death of any such elected official, benefits are payable in accordance with

the Class A provisions of the act.

An elected official may elect to withdraw his accumulated contributions in lieu of his

rights to the allowance based on service as an elected official.

**Contributions:** 

Class A: 8% of compensation.

Police: 8% of compensation

Firefighters hired

before July 1, 2011: 8% of compensation.

Firefighters hired

on or after July 1, 2011: 9% of compensation.

Elected Officials: \$350 per year.

Class B member contributions may cease after 32.5 years of service.

**Changes in Plan Provisions** 

There have been no changes in the plan of benefits since our prior valuation.

