



September 28, 2023

Ms. Patti McLauchlin  
Administrator, City of Key West  
Employees Retirement Plan  
City of Key West  
1300 White Street  
Key West, Florida 33040

**Re: Retirement Plan for Employees of the City of Key West**

Dear Patti:

As requested, we are pleased to enclose the October 1, 2022 Chapter 112.664 Compliance Report for the Retirement Plan for Employees of the City of Key West (Plan).

We will timely upload the required data to the State's online portal.

Please note we understand the following items must be posted on the Plan's website and must be posted on any website containing budget information relating to the City or actuarial or performance information relating to the Plan:

- this compliance report
- most recent financial statement
- most recent actuarial valuation report
- a link to the Division of Retirement Actuarial Summary Fact Sheet  
[http://www.dms.myflorida.com/workforce\\_operations/retirement/local\\_retirement\\_plans/local\\_retirement\\_section/actuarial\\_summary\\_fact\\_sheets](http://www.dms.myflorida.com/workforce_operations/retirement/local_retirement_plans/local_retirement_section/actuarial_summary_fact_sheets)
- for the previous five years - a side-by-side comparison of the Plan's assumed rate of return compared to the actual rate of return as well as the percentages of cash, equity, bond and alternative investments in the Plan portfolio
- the Plan's funded ratio as determined in the most recent actuarial valuation – 92.1% on a market value of assets basis as of October 1, 2022 under the Entry Age Normal Actuarial Cost Method

We appreciate the opportunity to work with the Board on this important assignment.

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

Sincerely,  
Gabriel, Roeder, Smith & Company

A handwritten signature in black ink that reads "Jennifer Borregard". The signature is written in a cursive, flowing style.

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

Enclosures

# Retirement Plan for Employees of the City of Key West

## CHAPTER 112.664, F.S. COMPLIANCE REPORT

In Connection with the October 1, 2022 Funding Actuarial Valuation Report and the Plan's Financial Reporting for the Year Ended September 30, 2022







September 28, 2023

General Employees' Retirement Committee  
c/o Ms. Patti McLauchlin  
Administrator – General Employees' Pension Plan  
City of Key West  
1300 White Street  
Key West, Florida 33040

**Re: October 1, 2022 Chapter 112.664 Compliance Report**

Dear Committee Members:

Gabriel, Roeder, Smith & Company (GRS) has been engaged by the Retirement Committee (Committee) of the Retirement Plan for Employees of the City of Key West (Plan) to prepare a disclosure report to satisfy the requirements set forth in Chapter 112.664, F.S. and as further required pursuant to Chapter 60T-1.0035, F.A.C.

This report was prepared at the request of the Committee and is intended for use by the Committee and those designated or approved by the Committee. This report may be provided to parties other than the Committee only in its entirety and only with the permission of the Committee.

The purpose of the report is to provide the required information specified in Chapter 112.664, F.S. and to supplement this information with additional exhibits. This report should not be relied on for any purpose other than the purpose described above.

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 additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. The scope of this engagement does not include an analysis of the potential range of such measurements.

This report is based upon information furnished by the City and the Committee concerning Plan benefits, Plan provisions and Plan members as used in the corresponding Actuarial Valuation Reports for the Valuation Dates indicated. Financial information was provided by the City and

Committee as of September 30, 2022. We reviewed the information provided for internal and year-to-year consistency, but did not audit the data. The Plan is responsible for the accuracy of the data.

Except where specific assumptions are required by Chapter 112.664, F.S, this report was prepared using actuarial assumptions adopted by the Committee as described in Section C. The Committee's assumptions are based upon the results of an Actuarial Experience Study for the five-year period ended September 30, 2017 and represent an estimate of future Plan experience. The mortality assumptions are prescribed by statute.

The investment return assumption of 2% higher than the investment return assumption utilized in the Actuarial Valuation Report does neither represent an estimate of future Plan experience nor observation of the estimates inherent in market data. This assumption is provided as a counterpart to the Chapter 112.664, F.S. requirement to utilize an investment return assumption of 2% lower than the investment return assumption utilized in the Actuarial Valuation Report. The inclusion of the additional 2% higher assumption shows a more complete assessment of the range of potential results as opposed to the *one-sided* range required by statute.

If all actuarial assumptions are met and if all current and future minimum required contributions are paid Plan assets will be sufficient to pay all Plan benefits, future contributions are expected to remain relatively stable as a percent of payroll and the funded status is expected to approach 100%. Plan minimum required contributions are determined in compliance with the requirements of the Florida Protection of Public Employee Retirement Benefits Act with normal cost determined as a level percent of covered payroll and a level percent of pay amortization payment using an initial amortization period of 20 years.

The Plan's funded ratio as of October 1, 2022 is 92.1% defined as the ratio of the market value of Plan assets to the actuarial accrued liability under the Entry Age Normal Actuarial Cost Method.

The Plan's funded ratio and the GASB Net Pension Liability may not be appropriate for assessing the sufficiency of Plan assets to meet the estimated cost of settling benefit obligations but may be appropriate for assessing the need for or the amount of future contributions.

This report was prepared using our proprietary valuation model and related software which in our professional judgment has the capability to provide results that are consistent with the purposes of the valuation and has no material limitations or known weaknesses. We performed tests to ensure that the model reasonably represents that which is intended to be modeled.

The undersigned are members of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein.



The signing actuaries are independent of the Plan sponsor.

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

With respect to the reporting standards for defined benefit retirement plans contained in Section 112.664(1), F.S., the actuarial disclosures required under this section were 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, meet the requirements of Section 112.664(1), F.S., and Section 60T-1.0035, F.A.C.

Sincerely,

GABRIEL, ROEDER, SMITH AND COMPANY

By *Michelle Jones*  
Shelly L. Jones, A.S.A., M.A.A.A., E.A.  
Enrolled Actuary No. 23-08646  
Consultant & Actuary

By *Jennifer Borregard*  
Jennifer M. Borregard, M.A.A.A., E.A.  
Enrolled Actuary No. 23-07624  
Consultant & Actuary



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## **SECTION A**

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### **CHAPTER 112.664, F.S. RESULTS**

**Net Pension Liability**  
**Using Financial Reporting Assumptions per GASB Statements No. 67 and No. 68**  
**and Using Assumptions Required Under 112.664(1)(a), F.S.**

Measurement Date	<u>September 30, 2022</u>
<b>A. <u>Total Pension Liability (TPL)</u></b>	
Service Cost	\$ 1,662,246
Interest	4,292,899
Benefit Changes	0
Difference Between Actual and Expected Experience	(1,656,647)
Assumption Changes	617,915
Benefit Payments	(3,642,062)
Other	0
Net Change in Total Pension Liability	\$ 1,274,351
Total Pension Liability (TPL) - (beginning of year)	<u>63,060,276</u>
Total Pension Liability (TPL) - (end of year)	<u>\$ 64,334,627</u>
<b>B. <u>Plan Fiduciary Net Position</u></b>	
Contributions - City	\$ 1,133,833
Contributions - Member	928,271
Net Investment Income	(8,497,967)
Benefit Payments	(3,642,062)
Administrative Expenses	(158,749)
Other	0
Net Change in Plan Fiduciary Net Position	\$ (10,236,674)
Plan Fiduciary Net Position - (beginning of year)	<u>72,255,835</u>
Plan Fiduciary Net Position - (end of year)	<u>\$ 62,019,161</u>
<b>C. <u>Net Pension Liability (NPL) - (end of year): (A) - (B)</u></b>	<b>\$ 2,315,466</b>
Valuation Date	October 1, 2021

**Certain Key Assumptions**

Investment Return Assumption 7.25%

Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.



**Net Pension Liability**  
Using Assumptions Required Under 112.664(1)(b), F.S.

Measurement Date	September 30, 2022
<b>A. <u>Total Pension Liability (TPL)</u></b>	
Service Cost	\$ 2,508,003
Interest	3,906,728
Benefit Changes	0
Difference Between Actual and Expected Experience	(2,232,694)
Assumption Changes	881,669
Benefit Payments	(3,642,062)
Other	0
Net Change in Total Pension Liability	\$ 1,421,644
Total Pension Liability (TPL) - (beginning of year)	78,305,280
Total Pension Liability (TPL) - (end of year)	\$ 79,726,924
<b>B. <u>Plan Fiduciary Net Position</u></b>	
Contributions - City	\$ 1,133,833
Contributions - Member	928,271
Net Investment Income	(8,497,967)
Benefit Payments	(3,642,062)
Administrative Expenses	(158,749)
Other	0
Net Change in Plan Fiduciary Net Position	\$ (10,236,674)
Plan Fiduciary Net Position - (beginning of year)	72,255,835
Plan Fiduciary Net Position - (end of year)	\$ 62,019,161
<b>C. <u>Net Pension Liability (NPL) - (end of year): (A) - (B)</u></b>	<b>\$ 17,707,763</b>
Valuation Date	October 1, 2021

**Certain Key Assumptions**

Investment Return Assumption 5.25%

Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.



## Net Pension Liability

### Using Assumptions Required Under 112.664(1)(a), F.S. Plus 2% on Investment Return Assumption

Measurement Date	<u>September 30, 2022</u>
<b>A. <u>Total Pension Liability (TPL)</u></b>	
Service Cost	\$ 1,153,003
Interest	4,478,248
Benefit Changes	0
Difference Between Actual and Expected Experience	(1,283,880)
Assumption Changes	447,308
Benefit Payments	(3,642,062)
Other	0
Net Change in Total Pension Liability	\$ 1,152,617
Total Pension Liability (TPL) - (beginning of year)	<u>52,240,982</u>
Total Pension Liability (TPL) - (end of year)	<u>\$ 53,393,599</u>
<b>B. <u>Plan Fiduciary Net Position</u></b>	
Contributions - City	\$ 1,133,833
Contributions - Member	928,271
Net Investment Income	(8,497,967)
Benefit Payments	(3,642,062)
Administrative Expenses	(158,749)
Other	0
Net Change in Plan Fiduciary Net Position	\$ (10,236,674)
Plan Fiduciary Net Position - (beginning of year)	<u>72,255,835</u>
Plan Fiduciary Net Position - (end of year)	<u>\$ 62,019,161</u>
<b>C. <u>Net Pension Liability (NPL) - (end of year): (A) - (B)</u></b>	<b>\$ (8,625,562)</b>
 Valuation Date	 October 1, 2021

### **Certain Key Assumptions**

Investment Return Assumption 9.25%

#### Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.



**Asset and Benefit Payment Projection**  
**Not Reflecting Any Future Contributions**  
Using Financial Reporting Assumptions per GASB Statements No. 67 and No. 68  
and Using Assumptions Required Under 112.664(1)(a), F.S.

FYE	Market Value of Assets (BOY)	Expected Investment Return	Projected Benefit Payments	Market Value of Assets (EOY)
2023	\$ 61,225,602	\$ 4,304,526	\$ 3,457,586	\$ 62,072,542
2024	62,072,542	4,350,930	3,843,642	62,579,830
2025	62,579,830	4,378,430	4,082,471	62,875,789
2026	62,875,789	4,391,910	4,287,803	62,979,896
2027	62,979,896	4,392,974	4,454,681	62,918,189
2028	62,918,189	4,382,830	4,600,625	62,700,394
2029	62,700,394	4,362,383	4,720,505	62,342,272
2030	62,342,272	4,332,675	4,816,864	61,858,083
2031	61,858,083	4,295,483	4,870,608	61,282,958
2032	61,282,958	4,252,593	4,901,334	60,634,217
2033	60,634,217	4,205,351	4,906,694	59,932,874
2034	59,932,874	4,154,993	4,894,098	59,193,769
2035	59,193,769	4,103,270	4,846,159	58,450,880
2036	58,450,880	4,051,754	4,785,853	57,716,781
2037	57,716,781	4,001,182	4,717,640	57,000,323
2038	57,000,323	3,952,701	4,628,528	56,324,496
2039	56,324,496	3,907,349	4,534,691	55,697,154
2040	55,697,154	3,866,200	4,423,154	55,140,200
2041	55,140,200	3,830,525	4,302,071	54,668,654
2042	54,668,654	3,800,150	4,203,959	54,264,845
2043	54,264,845	3,775,351	4,088,719	53,951,477
2044	53,951,477	3,757,784	3,956,110	53,753,151
2045	53,753,151	3,748,368	3,828,365	53,673,154
2046	53,673,154	3,747,710	3,696,020	53,724,844
2047	53,724,844	3,756,905	3,555,812	53,925,937
2048	53,925,937	3,777,289	3,406,381	54,296,845
2049	54,296,845	3,809,977	3,257,179	54,849,643
2050	54,849,643	3,855,689	3,112,149	55,593,183
2051	55,593,183	3,915,388	2,963,067	56,545,504
2052	56,545,504	3,989,742	2,826,358	57,708,888
2053	57,708,888	4,079,959	2,675,244	59,113,603

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits reflecting no contributions from the City or Members:

All Future Years

**Certain Key Assumptions**

Investment return assumption

7.25%

Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.

**Note: As required in Section 112.664(1)(c) of the Florida Statutes, the projection of Plan assets does not include future contributions from the City or Members. For this reason, this projection should not be viewed as representative of the amount of time the Plan can sustain benefit payments. Under the Government Accounting Standards Board standards which include City and Member contributions, the Plan is expected to be able to pay all future benefit payments.**



**Asset and Benefit Payment Projection**  
**Not Reflecting Any Future Contributions**  
Using Assumptions Required Under 112.664(1)(b), F.S.

FYE	Market Value of Assets (BOY)	Expected Investment Return	Projected Benefit Payments	Market Value of Assets (EOY)
2023	\$ 61,225,602	\$ 3,116,788	\$ 3,457,586	\$ 60,884,804
2024	60,884,804	3,088,003	3,843,642	60,129,165
2025	60,129,165	3,041,593	4,082,471	59,088,287
2026	59,088,287	2,981,154	4,287,803	57,781,638
2027	57,781,638	2,907,846	4,454,681	56,234,803
2028	56,234,803	2,822,520	4,600,625	54,456,698
2029	54,456,698	2,725,787	4,720,505	52,461,979
2030	52,461,979	2,618,345	4,816,864	50,263,461
2031	50,263,461	2,501,406	4,870,608	47,894,259
2032	47,894,259	2,376,156	4,901,334	45,369,081
2033	45,369,081	2,243,433	4,906,694	42,705,821
2034	42,705,821	2,103,968	4,894,098	39,915,690
2035	39,915,690	1,958,838	4,846,159	37,028,370
2036	37,028,370	1,808,956	4,785,853	34,051,472
2037	34,051,472	1,654,593	4,717,640	30,988,426
2038	30,988,426	1,496,297	4,628,528	27,856,195
2039	27,856,195	1,334,503	4,534,691	24,656,007
2040	24,656,007	1,169,640	4,423,154	21,402,493
2041	21,402,493	1,002,247	4,302,071	18,102,669
2042	18,102,669	831,775	4,203,959	14,730,485
2043	14,730,485	657,986	4,088,719	11,299,752
2044	11,299,752	481,615	3,956,110	7,825,257
2045	7,825,257	302,808	3,828,365	4,299,700
2046	4,299,700	121,450	3,696,020	725,130
2047	725,130	2,406	3,555,812	0
2048	0	0	3,406,381	0
2049	0	0	3,257,179	0
2050	0	0	3,112,149	0
2051	0	0	2,963,067	0
2052	0	0	2,826,358	0
2053	0	0	2,675,244	0

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits reflecting no contributions from the City or Members: 24.17

**Certain Key Assumptions**

Investment return assumption 5.25%

Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.

**Note: As required in Section 112.664(1)(c) of the Florida Statutes, the projection of Plan assets does not include future contributions from the City or Members. For this reason, this projection should not be viewed as representative of the amount of time the Plan can sustain benefit payments. Under the Government Accounting Standards Board standards which include City and Member contributions, the Plan is expected to be able to pay all future benefit payments.**



**Asset and Benefit Payment Projection**  
**Not Reflecting Any Future Contributions**  
Using Assumptions Required Under 112.664(1)(a), F.S. Plus 2% on Investment Return Assumption

FYE	Market Value of Assets (BOY)	Expected Investment Return	Projected Benefit Payments	Market Value of Assets (EOY)
2023	\$ 61,225,602	\$ 5,492,470	\$ 3,457,586	\$ 63,260,486
2024	63,260,486	5,661,615	3,843,642	65,078,459
2025	65,078,459	5,817,973	4,082,471	66,813,961
2026	66,813,961	5,968,358	4,287,803	68,494,516
2027	68,494,516	6,115,561	4,454,681	70,155,396
2028	70,155,396	6,261,979	4,600,625	71,816,750
2029	71,816,750	6,409,729	4,720,505	73,505,974
2030	73,505,974	6,561,219	4,816,864	75,250,329
2031	75,250,329	6,719,916	4,870,608	77,099,636
2032	77,099,636	6,889,458	4,901,334	79,087,760
2033	79,087,760	7,073,094	4,906,694	81,254,161
2034	81,254,161	7,274,109	4,894,098	83,634,172
2035	83,634,172	7,496,630	4,846,159	86,284,642
2036	86,284,642	7,744,779	4,785,853	89,243,568
2037	89,243,568	8,021,851	4,717,640	92,547,779
2038	92,547,779	8,331,895	4,628,528	96,251,146
2039	96,251,146	8,679,095	4,534,691	100,395,550
2040	100,395,550	9,067,965	4,423,154	105,040,361
2041	105,040,361	9,503,595	4,302,071	110,241,885
2042	110,241,885	9,989,585	4,203,959	116,027,511
2043	116,027,511	10,530,451	4,088,719	122,469,243
2044	122,469,243	11,132,866	3,956,110	129,645,999
2045	129,645,999	11,803,030	3,828,365	137,620,664
2046	137,620,664	12,547,228	3,696,020	146,471,873
2047	146,471,873	13,372,895	3,555,812	156,288,955
2048	156,288,955	14,288,361	3,406,381	167,170,935
2049	167,170,935	15,302,319	3,257,179	179,216,075
2050	179,216,075	16,423,663	3,112,149	192,527,589
2051	192,527,589	17,662,346	2,963,067	207,226,868
2052	207,226,868	19,028,787	2,826,358	223,429,297
2053	223,429,297	20,534,981	2,675,244	241,289,034

Number of years for which current market value of assets are adequate to sustain the payment of expected retirement benefits reflecting no contributions from the City or Members:

All Future Years

**Certain Key Assumptions**

Investment return assumption

9.25%

Mortality Table:

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018. For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.

**Note: As required in Section 112.664(1)(c) of the Florida Statutes, the projection of Plan assets does not include future contributions from the City or Members. For this reason, this projection should not be viewed as representative of the amount of time the Plan can sustain benefit payments. Under the Government Accounting Standards Board standards which include City and Member contributions, the Plan is expected to be able to pay all future benefit payments.**



**ACTUARIALLY DETERMINED CONTRIBUTION**

	Valuation Assumptions and 112.664(1)(a), F.S. Assumptions	112.664(1)(b), F.S. Assumptions	112.664(1)(a), F.S. Assumptions Plus 2% on Investment Return Assumption
A. Valuation Date	October 1, 2022	October 1, 2022	October 1, 2022
B. Actuarial Determined Contribution to Be Paid During Fiscal Year Ending	September 30, 2024	September 30, 2024	September 30, 2024
C. Annual payroll of Active Employees	\$ 15,243,369	\$ 15,243,369	\$ 15,243,369
D. Total Minimum Funding Requirement			
1. Total Normal Cost	\$ 2,192,931	\$ 3,212,421	\$ 1,576,457
2. Amortization of Unfunded Actuarial Accrued Liability	(72,461)	831,943	(959,012)
3. Interest Adjustment	74,178	103,449	27,294
4. Total Minimum Funding Requirement (1. + 2. + 3., not less than 1.)	\$ 2,194,648	\$ 4,147,813	\$ 1,576,457
E. Expected Payroll of Active Employees for Following Plan Year (\$ / % of pay) (C x 1.044)	\$ 15,914,077 104.40%	\$ 15,914,077 104.40%	\$ 15,914,077 104.40%
F. Expected Contribution Sources (\$ / % of pay)			
1. City	\$ 1,336,782 8.40%	\$ 3,373,784 21.20%	\$ 684,305 4.30%
2. Member	954,845 6.00%	954,845 6.00%	954,845 6.00%
3. Total	\$ 2,291,627 14.40%	\$ 4,328,629 27.20%	\$ 1,639,150 10.30%

**Unfunded Actuarial Accrued Liabilities Bases and Amortization Payments**

Amortization Base	Current Unfunded Liabilities	Amortization Payment			Remaining Funding Period
		Valuation and 112.664(1)(a), F.S. Assumptions	112.664(1)(b), F.S. Assumptions	112.664(1)(a), F.S. Assumptions Plus 2%	
10/01/2016 Method Change - Initial Unfunded	\$ (94,055)	\$ (7,957)	\$ (7,078)	\$ (8,875)	14 years
10/01/2016 Assumption Change	(8,551)	(723)	(643)	(807)	14 years
10/01/2017 Actuarial Loss / (Gain)	82,844	6,624	5,842	7,445	15 years
10/01/2018 Actuarial Loss / (Gain)	(1,273,978)	(96,700)	(84,557)	(109,516)	16 years
10/01/2018 Assumption Change	1,150,712	87,344	76,376	98,919	16 years
10/01/2019 Actuarial Loss / (Gain)	617,370	44,658	38,719	50,953	17 years
10/01/2019 Assumption Change	(892,720)	(64,575)	(55,988)	(73,679)	17 years
10/01/2020 Actuarial Loss / (Gain)	(1,073,294)	(74,240)	(63,826)	(85,327)	18 years
10/01/2020 Assumption Change	380,422	26,314	22,623	30,244	18 years
10/01/2021 Actuarial Loss / (Gain)	(3,824,920)	(253,761)	(216,339)	(293,770)	19 years
10/01/2021 Assumption Change	668,767	44,369	37,826	51,364	19 years
10/01/2022 Actuarial Loss / (Gain)	3,388,158	216,186	182,774	252,055	20 years
10/01/2022 Assumption Change - 112.664(1)(b), F.S. Assumptions	16,613,502	N/A	896,214	N/A	20 years
10/01/2022 Assumption Change - 112.664(1)(a), F.S. Assumptions Plus 2%	(11,802,418)	N/A	N/A	(878,018)	20 years

## **SECTION B**

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### **SUMMARY OF PLAN PROVISIONS**

**Outline of Principal Provisions of the Retirement Plan  
(as of October 1, 2022)**

A. Effective Date:

January 1, 1973, as amended through Ordinance 20-06.

B. Eligibility Requirements:

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

C. Credited Service:

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

D. Earnable Compensation:

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

E. Final Monthly Compensation (FMC):

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

F. Employee Contributions:

6% of basic annual compensation.

G. Normal Retirement:

(1) Eligibility: The earlier of attainment of age 60 and completion of 10 years of credited service or completion of 20 years of credited service, irrespective of age. Employees participating in the plan prior to March 1, 1993 may retire fully vested at age 60 with 5 years of credited service. Employees hired on or after March 1, 1993 may retire at age 60 with 5 years of credited service but less than 10 years of credited service with reduced benefits.

(2) Benefit: 2.5% times FMC times credited service. 1.25% times FMC times credited service for employees hired on or after March 1, 1993 with less than 10 years of credited service.



**Outline of Principal Provisions of the Retirement Plan  
(as of October 1, 2022)**

H. Early Retirement:

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

I. Deferred Retirement:

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

J. Disability Retirement:

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

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

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

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

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

**Outline of Principal Provisions of the Retirement Plan  
(as of October 1, 2022)**

K. Survivor Benefit:

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

L. Vested Benefit Upon Termination:

(1) Eligibility:

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

(2) Benefit at payable at Normal Retirement Date:

Benefit equal to accrued benefit based upon credited service and FMC at date of termination times vested percentage.

M. Cash Termination Benefit:

(1) Accumulated employee contributions without interest for non-vested employees.

(2) Accumulated employee contributions without interest in lieu of deferred vested benefit for vested employees.

N. Normal Form of Retirement Income:

Monthly life annuity with guaranteed return of employee contributions.

**Outline of Principal Provisions of the Retirement Plan  
(as of October 1, 2022)**

O. Deferred Retirement Option Plan (DROP):

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

P. Cost of Living Adjustment (COLA):

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

Q. Changes From Previous Valuation:

None.

## SECTION C

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### **ACTUARIAL ASSUMPTIONS AND COST METHODS USED FOR FUNDING**

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation  
(as of October 1, 2022)**

**A. Mortality**

For healthy participants during employment, PUB-2010 Headcount Weighted General Below Median Employee Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For healthy participants post employment, PUB-2010 Headcount Weighted General Below Median Healthy Retiree Mortality Table, separate rates for males and females, set back 1 year for males, with fully generational mortality improvements projected to each future decrement date with Scale MP-2018.

For disabled participants, PUB-2010 Headcount Weighted General Disabled Retiree Mortality Table, separate rates for males and females, both set forward 3 years, without projected mortality improvements.

Sample Ages (2022)	Pre-retirement Future Life Expectancy (Years)		Post-retirement Future Life Expectancy (Years)	
	Male	Female	Male	Female
	55	32.75	35.17	28.83
60	27.89	30.14	24.73	28.00
62	25.99	28.16	23.10	26.17

Sample Ages (2042)	Pre-retirement Future Life Expectancy (Years)		Post-retirement Future Life Expectancy (Years)	
	Male	Female	Male	Female
	55	34.38	36.65	30.85
60	29.45	31.58	26.59	29.67
62	27.52	29.57	24.90	27.79

**B. Investment Return**

7.25%, net of investment expenses, compounded annually - includes inflation of 2.5%.

**C. Allowances for Expenses or Contingencies**

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

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation  
(as of October 1, 2022)**

D. Employee Withdrawal Rates

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

<u>Service</u>	<u>Withdrawal Rates</u>
0-1	25.0%
1-2	22.0%
2-3	16.0%
3-4	14.0%
4-5	10.0%
5-6	10.0%
6-7	9.0%
7-8	8.0%
8-10	6.0%
10+	2.0%

E. Disability Rates

Class (01) Inter-Company disability rates were used with separate rates for males and females.

50% of all disablements are assumed to be service related.

F. Marital Assumptions

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

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

G. Salary Increase Factors

Current salary was assumed to increase at a rate based on the table below per year until retirement - includes assumed wage inflation of 3.25%.

<u>Age</u>	<u>Salary Increase</u>
< 30	6.00%
30 - 59	5.00%
60 +	4.00%

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation  
(as of October 1, 2022)**

H. Assumed Retirement Age

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

<u>Age</u>	<u>Retirement Rate</u>
55	15%
56 - 59	10%

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

<u>Age</u>	<u>Retirement Rate</u>
55 or younger	20%
56 - 64	30%
65 - 74	35%
75 - 79	50%
80 & older	100%

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

I. Payroll Growth Assumption

Payroll is assumed to increase at a rate equal to the historical 10-year average (4.4% as of October 1, 2022) - not less than 0.0%.

J. Valuation of Assets

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

K. Actuarial Cost Methods

Normal Retirement, Termination, Death and Disability Benefits: Entry Age Normal

Under this method the normal cost for each active employee is the amount which is calculated to be a level percentage of pay that would be required annually from his age at hire to his assumed retirement age to fund his estimated benefits, assuming the Plan had always been in effect. The normal cost for the Plan is the sum of such amounts for all employees. The actuarial accrued liability as of any valuation date for each active employee or inactive employee who is eligible to receive benefits under the Plan is the excess of the actuarial present value of estimated future benefits over the actuarial present value of current and future normal costs. The unfunded actuarial accrued liability as of any valuation date is the excess of the actuarial accrued liability over the smoothed actuarial value of assets of the Plan.

**Actuarial Assumptions and Actuarial Cost Methods Used in the Valuation  
(as of October 1, 2022)**

K. Actuarial Cost Methods (continued)

Vested Normal Retirement, Termination, Disability, and Death Benefits: Unit Credit Cost Method

Under this method, the actuarial present value of vested accrued benefits is an amount calculated to be the sum of the present values of each individual's vested accrued or earned benefit under the Plan as of the valuation date. Each individual's calculation is based on pay and service as of the valuation date.

The DROP accounts balance is included in the assets and liabilities as of the valuation date.

L. Disclosure of Assumptions

The investment return, salary increases, withdrawal and retirement rates were updated based on the most recent experience study performed for the five years ending September 30, 2017. The mortality rates are based upon the July 1, 2022 FRS Actuarial Valuation, as required under F.S., Chapter 2015-157.

M. Changes from Previous Valuation

None.

## **SECTION D**

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### **GLOSSARY**

## GLOSSARY

<b><i>Actuarial Accrued Liability</i></b>	The difference between the Actuarial Present Value of Future Benefits, and the Actuarial Present Value of Future Normal Costs.
<b><i>Actuarial Assumptions</i></b>	Assumptions about future plan experience that affect costs or liabilities, such as: mortality, withdrawal, disablement, and retirement; future increases in salary; future rates of investment earnings; future investment and administrative expenses; characteristics of members not specified in the data, such as marital status; characteristics of future members; future elections made by members and other items.
<b><i>Actuarial Cost Method</i></b>	A procedure for allocating the Actuarial Present Value of Future Benefits between the Actuarial Present Value of Future Normal Costs and the Actuarial Accrued Liability.
<b><i>Actuarial Equivalent</i></b>	Of equal Actuarial Present Value, determined as of a given date and based on a given set of Actuarial Assumptions.
<b><i>Actuarial Present Value</i></b>	The amount of funds required to provide a payment or series of payments in the future. It is determined by discounting the future payments with an assumed interest rate and with the assumed probability each payment will be made.
<b><i>Actuarial Present Value of Future Benefits</i></b>	The Actuarial Present Value of amounts which are expected to be paid at various future times to active members, retired members, beneficiaries receiving benefits and inactive, non-retired members entitled to either a refund or a future retirement benefit. Expressed another way, it is the value that would have to be invested on the valuation date so that the amount invested plus investment earnings would provide sufficient assets to pay all projected benefits and expenses when due.
<b><i>Actuarial Valuation</i></b>	The determination, as of a valuation date, of the Normal Cost, Actuarial Accrued Liability, Actuarial Value of Assets, and related Actuarial Present Values for a plan. An Actuarial Valuation for a governmental retirement system typically also includes calculations of items needed for compliance with GASB No. 67.
<b><i>Actuarial Value of Assets</i></b>	The value of the assets as of a given date, used by the actuary for valuation purposes. This may be the market or fair value of plan assets or a smoothed value in order to reduce the year-to-year volatility of calculated results, such as the funded ratio and the actuarially required contribution.

<b><i>Amortization Method</i></b>	A method for determining the Amortization Payment. The most common methods used are level dollar and level percentage of payroll. Under the Level Dollar method, the Amortization Payment is one of a stream of payments, all equal, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the Amortization Payment is one of a stream of increasing payments, whose Actuarial Present Value is equal to the UAAL. Under the Level Percentage of Pay method, the stream of payments increases at the rate at which total covered payroll of all active members is assumed to increase.
<b><i>Amortization Payment</i></b>	That portion of the plan contribution which is designed to pay interest on and to amortize the Unfunded Actuarial Accrued Liability.
<b><i>Amortization Period</i></b>	The period used in calculating the Amortization Payment.
<b><i>Annual Required Contribution</i></b>	The employer's periodic required contributions, expressed as a dollar amount or a percentage of covered plan compensation. The annual required contribution consists of the Employer Normal Cost and Amortization Payment plus interest adjustment.
<b><i>Closed Amortization Period</i></b>	A specific number of years that is reduced by one each year, and declines to zero with the passage of time. For example if the amortization period is initially set at 30 years, it is 29 years at the end of one year, 28 years at the end of two years, etc.
<b><i>Employer Normal Cost</i></b>	The portion of the Normal Cost to be paid by the employer. This is equal to the Normal Cost less expected member contributions.
<b><i>Equivalent Single Amortization Period</i></b>	For plans that do not establish separate amortization bases (separate components of the UAAL), this is the same as the Amortization Period. For plans that do establish separate amortization bases, this is the period over which the UAAL would be amortized if all amortization bases were combined upon the current UAAL payment.
<b><i>Experience Gain/Loss</i></b>	A measure of the difference between actual experience and that expected based upon a set of Actuarial Assumptions, during the period between two actuarial valuations. To the extent that actual experience differs from that assumed, Unfunded Actuarial Accrued Liabilities emerge which may be larger or smaller than projected. Gains are due to favorable experience, e.g., the assets earn more than projected, salaries do not increase as fast as assumed, members retire later than assumed, etc. Favorable experience means actual results produce actuarial liabilities not as large as projected by the actuarial assumptions. Losses are the result of unfavorable experience, i.e., actual results that produce Unfunded Actuarial Accrued Liabilities which are larger than projected.
<b><i>Funded Ratio</i></b>	The ratio of the Actuarial Value of Assets to the Actuarial Accrued Liability.

<b><i>GASB</i></b>	Governmental Accounting Standards Board.
<b><i>GASB No. 67 and GASB No. 68</i></b>	These are the governmental accounting standards that set the accounting rules for public retirement plans and the employers that sponsor or contribute to them. Statement No. 67 sets the accounting rules for the plans themselves, while Statement No. 68 sets the accounting rules for the employers that sponsor or contribute to public retirement plans.
<b><i>Normal Cost</i></b>	The annual cost assigned, under the Actuarial Cost Method, to the current plan year.
<b><i>Open Amortization Period</i></b>	An open amortization period is one which is used to determine the Amortization Payment but which does not change over time. In other words, if the initial period is set as 30 years, the same 30-year period is used in determining the Amortization Period each year. In theory, if an Open Amortization Period is used to amortize the Unfunded Actuarial Accrued Liability, the UAAL will never completely disappear, but will become smaller each year, either as a dollar amount or in relation to covered payroll.
<b><i>Unfunded Actuarial Accrued Liability</i></b>	The difference between the Actuarial Accrued Liability and Actuarial Value of Assets.
<b><i>Valuation Date</i></b>	The date as of which the Actuarial Present Value of Future Benefits are determined. The benefits expected to be paid in the future are discounted to this date.