(a Component Unit of the City of Medford, Massachusetts)

Report on Examination of Basic Financial Statements and Additional Information

Year Ended December 31, 2019

Report on Internal Control and Compliance Year Ended December 31, 2019



(A Component Unit of the City of Medford, Massachusetts)

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INDEPENDENT AUDITORS' REPORT

To the Medford Retirement Board Medford Contributory Retirement System Medford, Massachusetts

Report on the Financial Statements

We have audited the accompanying financial statements of the Medford Contributory Retirement System (the "System"), a component unit of the City of Medford, Massachusetts, as of and for the year ended December 31, 2019, and the related notes to the financial statements, which collectively comprise the System's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the entity's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the System as of December 31, 2019, and the respective changes in financial position for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis, and the schedules listed under the required supplementary information section in the accompanying table of contents be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context.

We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued a report dated September 4, 2020 on our consideration of the System's internal control over financial reporting and our tests of its compliance with certain provisions of laws, regulations, contracts, grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the System's internal control over financial reporting and compliance.

Roselli, Clark & Associates Certified Public Accountants Woburn, Massachusetts

September 4, 2020

MANAGEMENT'S DISCUSSION AND ANALYSIS

Our discussion and analysis of the Medford Contributory Retirement System's (the "System") financial performance provides an overview of the System's financial activities for the calendar year ended December 31, 2019. You should read it in conjunction with the basic financial statements, footnotes and required supplementary information that follows this discussion.

Financial Highlights

The System's funding objective is to meet long-term benefit obligations through contributions and investment income. The System's independent actuary estimates that the System is approximately 62% funded at December 31, 2019.

The System's fiduciary net position increased over \$23.0 million in 2019 to approximately \$207.1 million. Current year additions of nearly \$45.2 million exceeded deductions of approximately \$22.2 million. The current year increase in fiduciary net position was far more favorable that the prior year's reported decrease of over \$9.8 million. The System's investment performance for 2019, net of investment management fees, was approximately 15.9% versus -2.1% in 2018. The 2019 net investment return for the System exceeded its long-term expected discount rate, which is currently 7.25%.

The benchmark U.S. equity indices were down significantly in the first quarter of 2020. The volatility in U.S. markets is historic and primarily due to the COVID-19 pandemic, which sparked liquidations of equities and debt securities causing market prices of nearly all investment securities to plummet. Additionally, declining worldwide oil prices further exacerbated the situation. The System actively manages its investments and has taken steps to attempt to mitigate losses. It is important to note that much of the investment losses experienced in the first quarter of 2020 were recouped in the following quarter. The System reduced its discount rate to 7.25% in its latest valuation to, among other things, reflect this market uncertainty.

Overview of the Financial Statements

The basic financial statements are comprised of a Statement of Fiduciary Net Position, Statement of Changes in Fiduciary Net Position, Notes to Financial Statements and Required Supplementary Information. The basic financial statements are prepared in accordance with accounting principles generally accepted in the United States of America, or GAAP; specifically, GASB Statement No. 67, *Financial Reporting for Pension Plans*.

The Statement of Fiduciary Net Position reports the System's assets, deferred outflows of resources, liabilities, deferred inflows of resources and fiduciary net position restricted for pensions. This statement reflects the System's investments at fair value, as well as cash, receivables and other assets and liabilities. Over time, the increase or decrease in fiduciary net position serves as a useful indicator of the System's financial health and condition.

The Statement of Changes in Fiduciary Net Position reports additions to and deductions from the System during the. This statement reflects contributions by members and participating employers along with deductions for retirement benefits, refunds, withdrawals and administrative expenses. Investment income, including realized and unrealized gains, during the year is also presented.

The Notes to the Financial Statements provide additional information that is essential for the reader to gain a full understanding of the data provided in the financial statements.

This report also includes Required Supplementary Information following the Notes to the Financial Statements that consist the schedules of changes in net pension liability and related ratios, investment returns and contributions and the notes to the schedule of contributions.

Financial Analysis

The condensed comparative Statements of Net Position for the two most recent years are as follows:

| | Decem | iber 31, | Dollar | Percent | |
|------------------------------|----------------|----------------|----------------|---------|--|
| | | | Change | Change | |
| Assets: | | | | | |
| Cash and cash equivalents | \$ 2,089,354 | \$ 7,484,871 | \$ (5,395,517) | -72% | |
| Investments, at fair value | 205,441,113 | 176,484,193 | 28,956,920 | 16% | |
| Receivables and other assets | 303,745 | 106,580 | 197,165 | 185% | |
| Total Assets | 207,834,212 | 184,075,644 | 23,758,568 | 13% | |
| Liabilities | 775,391 | 63,623 | 711,768 | 1119% | |
| Fiduciary Net Position | \$ 207,058,821 | \$ 184,012,021 | \$ 23,046,800 | 13% | |

Total assets at December 31, 2019 approximated \$207.8 million and principally consisted of investments recorded at fair value. Total asset increased by approximately \$23.8 million in 2019, due primarily to a positive investment portfolio performance of over 15.9%. Fluctuations in receivables and liabilities were due primarily to the timing of investment sales and purchases being completed.

The condensed comparative Statements of Changes in Fiduciary Net Position for the two most recent years are as follows:

| | Year Ended I | December 31, | Dollar | Percent | |
|--------------------------------------|---------------|----------------|---------------|---------|--|
| | 2019 | 2018 | Change | Change | |
| Additions: | | | | | |
| Contributions | \$ 17,953,232 | \$ 17,034,033 | \$ 919,199 | 5% | |
| Investment income, net | 27,244,587 | (5,420,060) | 32,664,647 | 603% | |
| Total Additions | 45,197,819 | 11,613,973 | 33,583,846 | 289% | |
| Deductions: | | | | | |
| Benefits and refunds to Plan members | 21,759,576 | 21,087,645 | 671,931 | 3% | |
| Administrative and other expenses | 391,443 | 375,791 | 15,652 | 4% | |
| Total Deductions | 22,151,019 | 21,463,436 | 687,583 | 3% | |
| Change in Fiduciary Net Position | \$ 23,046,800 | \$ (9,849,463) | \$ 32,896,263 | 334% | |

Fiduciary net position increased over \$23.0 million in 2019, primarily as a result of net investment income of approximately \$27.2 million for the year.

Contributions to the System's Fiduciary Net Position primarily include employer and employee contributions in addition to transfers from other retirement systems. Contributions for 2019 totaled nearly \$18.0 million versus \$17.0 million in 2018.

Employer contributions represent the largest source of System contributions. In 2019, employer contributions totaled approximately \$12.3 million, or 68%, in of total contributions. Employer contributions are actuarially determined. Employee contributions totaled approximately \$4.9 million in 2019, which was approximately \$657,000, or 16%, greater than the prior year. This increase was due primarily to an increase in the number of active members within the System coupled with the effect normal pay raises

Other contributions decreased approximately \$396,000 year-over-year.

Investment income is presented net of associated investment management expenses. In 2019, the System reported over \$27.2 million in net investment income versus approximately \$(5.4) million in 2018. The System's money-weighted rates of return for 2019 and 2018 were approximately 15.9% and -2.1%, respectively.

Deductions to the System's Fiduciary Net Position primarily include pension benefits to members and beneficiaries, refunds to inactive members, transfers and reimbursements to other Massachusetts public retirement systems and administrative expenses. Total deductions for 2019 increased approximately \$688,000 to nearly \$22.2 million versus \$21.5 million in 2018.

Pension benefits to members and beneficiaries represents the largest deduction from Fiduciary Net Position for the System. Pension benefits to members and beneficiaries represented approximately 93% and 92% of total 2019 and 2018 deductions, respectively. Pension benefits to members and beneficiaries increased approximately \$915,000, or 5%, in 2019. This increase was due to a greater average number of beneficiaries paid year-over-year coupled with the normal annual cost-of-living adjustments paid by the System.

The increase in pension benefits to members and beneficiaries was offset by an approximate \$243,000 decrease in transfers and reimbursements to other Massachusetts public retirement systems, which is a function of timing and employment trends/movements.

Administrative expenses were relatively consistent year-over-year.

Overall Financial Position

The System's funded ratio of approximately 62% in the December 31, 2019 actuarial valuation report places it in the top one-half of Massachusetts public employee retirement systems. Using the assumptions detailed more fully in Note 6 to the financial statements, the System forecasts that it will be fully funded in 2033, well ahead of the mandated deadline.

The System maintains a large portion of its investments measured at NAV or using level 2 inputs. Some of these funds invest in private companies or real estate. The determination of the value of these investments is very subjective and the ultimate amount of gains and losses in some of these funds will not be determined until the underlying assets (i.e., the real estate or stock in the private companies) are sold. Furthermore, these types of investments are not as liquid as investments in savings accounts, money markets, certificates of deposits, government securities or debt and equity securities in publicly-held U.S. corporations. You should refer to Notes 2 and 4 to these financial statements.

Although the System has been successful in generating the yields necessary to achieve fully funded status in the required time frame, the System (like so many other institutional investors) has experienced a great deal of volatility in its investments. Management believes that the volatility in the worldwide markets may continue for the foreseeable future. Accordingly, management intends to actively monitor the System's investment positions to best maximize returns while mitigating risk as best it can.

Contacting the System's Financial Management Personnel

Our discussion and analysis is designed to provide the Medford Retirement Board, our membership, taxpayers, investors and creditors with a general overview of the System's financial results and to demonstrate the System's accountability for the funding it receives. If you have any questions about this report or need additional financial information, contact the Medford Retirement Board at 85 George P. Hassett Drive, Medford, MA 02155.

(A Component Unit of the City of Medford, Massachusetts)

STATEMENT OF FIDUCIARY NET POSITION DECEMBER 31, 2019

| Assets: | |
|---------------------------------------|-------------------|
| Cash and cash equivalents | \$ 2,089,354 |
| Investments: | |
| Fixed income securities | 24,759,376 |
| Equity securities | 2,137 |
| Mutual funds | 138,761,904 |
| PRIT funds | 41,917,696 |
| Receivables: | |
| Interest receivable | 121,032 |
| Contributions and other | 182,713 |
| Total Assets | 207,834,212 |
| Liabilities: | |
| Accounts payable and accrued expenses | 61,809 |
| Open trades | 713,582 |
| Total Liabilities | 775,391 |
| Net Position Restricted for Pensions | \$ 207,058,821 |

See accompanying notes to basic financial statements.

(A Component Unit of the City of Medford, Massachusetts)

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION YEAR ENDED DECEMBER 31, 2019

| Additions: | | |
|--|----|-------------|
| Employer contributions | \$ | 12,253,953 |
| Employee contributions | Ψ | 4,856,585 |
| Other contributions | | 834,787 |
| Total contributions | _ | 17,945,325 |
| Investment income: | | |
| Interest and dividends | | 4,686,567 |
| Net appreciation in fair value of investments | | 23,838,345 |
| Less investment management fees | | (1,280,325) |
| Total net investment income | | 27,244,587 |
| Other income | | 7,907 |
| Total Additions | | 45,197,819 |
| Deductions: | | |
| Benefits and refunds to Plan members: | | |
| Benefits to retirees and survivors | | 20,660,956 |
| Member refunds | | 336,756 |
| Transfers and reimbursements to other systems | | 761,864 |
| Administrative expenses: | | 255.000 |
| Operations payroll and related personnel costs | | 255,998 |
| Other | | 135,445 |
| Total Deductions | | 22,151,019 |
| Net Change in Net Position | | 23,046,800 |
| Net Position Restricted for Pensions: | | |
| Beginning of the year | | 184,012,021 |
| End of the year | \$ | 207,058,821 |

See accompanying notes to basic financial statements.

(A Component Unit of the City of Medford, Massachusetts)

NOTES TO THE FINANCIAL STATEMENTS AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2019

1. DESCRIPTION OF THE PLAN

General – The Medford Contributory Retirement System (the "System") is a cost-sharing, multiple employer cost sharing defined benefit pension plan established and administered by the Medford Retirement Board under the provisions of Chapter 32 of the Massachusetts General Laws ("MGL") to provide pension benefits for participants. The System is a component unit of the City of Medford, Massachusetts (the "City"). The City and the Medford Housing Authority contribute to the System.

Employees of the City (with the exception of teachers and certain administrative personnel employed by the School Department who participate in a separate plan) and the Medford Housing Authority are covered by the System. Participation in the System is mandatory immediately upon the commencement of employment for all permanent, full-time employees.

At December 31, 2019, membership in the System consisted of:

| Retirees and beneficiaries currently receiving benefits | 611 |
|---|--------------|
| Active plan members | 948 |
| Inactive plan members | 42 |
| Total membership | <u>1,601</u> |

Plan Benefits – Massachusetts contributory retirement system benefits are generally uniform from one public pension system to another. For employees with service dates beginning before April 2, 2012, the System provides for retirement allowance benefits up to a maximum of 80% of a participant's highest consecutive three-year average annual rate of regular compensation. For those employees who began their service after April 2, 2012, the System provides for retirement allowance benefits up to a maximum of 80% of a participant's highest consecutive five-year average annual rate of regular compensation. Benefit payments are based upon a participant's age, length of creditable service, level of compensation and group classification.

The retirement allowance consists of two parts – an annuity and a pension. Participants' accumulated total deductions and a portion of the interest they generate constitute the annuity. The differential between the total retirement benefit and annuity is the pension.

Participants who resign from service and who are not eligible to receive a retirement allowance are entitled to request a refund of their accumulated total contributions. In addition, depending upon the number of years of creditable service, such employees may be entitled to receive interest, which has accrued on those contributions. A vested employee who has not reached their eligible retirement age and elects to leave their accumulated total deductions on deposit may apply for benefits upon reaching their eligible retirement age.

Survivor benefits are extended to eligible beneficiaries of participants whose death occurs prior to or following retirement.

Retirement Requirements – In order to receive retirement benefits, participants must meet one of the following two categories:

- 1) Normal Retirement Generally, normal retirement occurs between ages 65 and 67. However, most participants with a hire date before April 2, 2012, may retire after twenty years of creditable service or at any time after attaining age 55. For most participants hired on or after April 2, 2012, they must attain the age of 60 before they can retire. Participants with hire dates subsequent to January 1, 1978 must have a minimum of ten years' creditable service in order to retire at age 55 or 60, as applicable. Participants become vested after ten years of service. Benefits commencing before age 65 are generally provided at a reduced rate. However, members working in certain occupations may retire with full benefits earlier than age 65.
- 2) Disability Retirements The System provides for both an ordinary and accidental disability retirement. An ordinary disability retirement is where a participant is permanently incapacitated from a cause unrelated to employment. An accidental disability retirement is where the disability is the result of an injury or illness received or aggravated in the performance of their duty.

The amount of benefits to be received in such cases is dependent upon several factors, including the age at which the disability retirement occurs, the years of creditable service, average regular compensation and veteran status. In addition, certain provisions are in place relative to death benefits for beneficiaries of employees who die in active service.

Public Availability of Financial Statements – The Medford Retirement Board issues a publicly available financial report that includes financial statements and required supplementary information for the System. That report may be obtained by writing to the Medford Retirement Board, 85 George P. Hassett Drive, Medford, MA 02155.

2. SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting – The financial statements of the System have been prepared on the accrual basis of accounting. Plan member contributions are recognized in the period in which the contributions are due. Employer contributions are recognized when due and the employer is legally required to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the pension plan.

Use of Estimates – The preparation of financial statements in conformity with generally accepted accounting principles in the United States of America, or GAAP, requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Cash and Cash Equivalents – Cash and cash equivalents include cash on hand, demand deposits and short-term holdings with original maturities of three months or less from the date of acquisition.

Investments – The carrying amounts of the System's investments approximate their fair value. When actively quoted observable prices are not available, the System generally uses either implied pricing from similar investments or valuation models based on net present values of estimated future cash flows (adjusted as appropriate for liquidity, credit, market and/or other risk factors).

The System categorizes its fair value measurements within the fair value hierarchy established by GAAP. This hierarchy is based on valuation inputs used to measure the fair value of the asset or liability. The three levels of the hierarchy are as follows:

- Level 1 Inputs are quoted prices in active markets for identical investments at the measurement date.
- Level 2 Inputs (other than quoted prices included in Level 1) are either directly or indirectly observable for the investment through correlation with market data at the measurement date and for the duration of the instrument's anticipated life.
- Level 3 Inputs reflect the System's best estimate of what market participants would use in pricing the investment at the measurement date.

The remaining investments not categorized under the fair value hierarchy are shown at net asset value ("NAV"). These are investments in non-governmental entities for which a readily determinable fair value is not available, such as member units or an ownership interest in partners' capital to which a proportionate share of net assets is attributed. Investments at NAV are commonly calculated by subtracting the fair value of liabilities from the fair value of assets.

The following table presents the fair value of the System's investments by type as of December 31, 2019:

| | December 31, | 1, Fair Value Measurements Using | | | | |
|---------------------------------------|----------------|----------------------------------|----------------|---------------|--|--|
| Investments by Fair Value Level | 2019 | Level 1 | Level 2 | Level 3 | | |
| Debt securities: | | | | | | |
| U.S. government notes and obligations | \$ 9,972,491 | \$ 6,936,092 | \$ 3,036,399 | \$ - | | |
| Foreign government bonds | 300,000 | - | 300,000 | - | | |
| Corporate bonds | 14,486,885 | 14,486,885 | | | | |
| Total debt securities | 24,759,376 | 21,422,977 | 3,336,399 | | | |
| Equity securities | 2,137 | 2,137 | - | - | | |
| Mutual funds | 118,407,467 | | 118,407,467 | | | |
| Total investments by fair value level | 143,168,980 | \$ 21,425,114 | \$ 121,743,866 | \$ - | | |
| Investments measured at NAV: | | | | | | |
| Mutual funds | 20,354,437 | | | | | |
| PRIT funds | 41,917,696 | | | | | |
| Total investments measured at NAV | 62,272,133 | | | | | |
| Total investments | \$ 205,441,113 | | | | | |
| Investments Measured at NAV | | Unfunded | Redemption | Redemption | | |
| By Asset Class | Fair Value | Commitments | Frequency | Notice Period | | |
| Private equity mutual funds | \$ 20,354,437 | \$ - | Varies | 30 to 60 days | | |
| PRIT funds | 41,917,696 | 11,110,687 | Monthly | 30 days | | |
| | \$ 62,272,133 | \$ 11,110,687 | | | | |

Investments measured at NAV include comingled/pooled funds in a private equity mutual fund and private equity fund and investments in the State Treasurer investment pool, referred to as PRIT funds.

Private equity funds generally include investments in which the System is a general partner in a private equity, venture capital fund or similar investment vehicle. The value of these investments are recorded at values determined in good faith by the general partners of the private equity and venture capital firms after consideration of pertinent information, including current financial position and operative results, price-earnings multiples and available market prices of similar companies' securities, the nature of the securities, marketability, restrictions on disposition and other appropriation and do not necessarily represent amounts which might ultimately be realized, since such amounts depend on future circumstances and cannot reasonably be determined until individual securities are liquidated. In addition, fair values of real estate funds are generally based on independent, third-party appraisals. By their very nature, these investments are illiquid and typically cannot be resold or redeemed. Distributions from each fund will be received as the underlying investments are liquidated. It is expected that the underlying assets for the funds will be liquidated over an average of ten years.

The State Treasurer investment pool is administered by the Commonwealth of Massachusetts' Pension Reserve Investment Management Board, or PRIM. The System maintains several Massachusetts Pension Reserve Investment Trust, or PRIT funds, each of which consists of a diverse set of investments that includes private equity, venture and real estate investments. The determination of the fair value of these investments is very subjective and the period-end values are reported to the System as NAV. Investments in the PRIT funds are more liquid than investments in private equity and real estate holdings, but generally cannot be resold to third parties. The System may liquidate its investment in the PRIT funds at any time with less than thirty days' notice. Distributions from the PRIT funds may be received regularly and, upon receipt, are deposited into an accompanying short-term cash investment account.

Because of the inherent uncertainty of valuations used in many of the System's investments measured at NAV, estimated values may differ significantly from the values that would have been used had a readily available market for positions in privately held companies or the real estate existed at December 31, 2019. These differences could have a material adverse effect on the System's financial statements.

3. SYSTEM ADMINISTRATION

The System is administered by a five-person Board consisting of the City Auditor, two members who are elected by the participants in or retired from the service of the System, one member appointed by the City Mayor and one member appointed by the other members of the Board.

At December 31, 2019, the Board was comprised as follows:

Ex-Officio Member: Ms. Aleesha Nunley-Benjamin (City Auditor) No specified date
Appointed Member: Mr. Robert Maiocco January 23, 2021
Elected Member: Mr. Patrick Ripley October 30, 2020
Elected Member: Mr. Rick Jordan (Chairperson) December 19, 2020
Board Appointed Member: Mr. James Vieira January 27, 2021

The Board is required to meet at least once a month and keep a record of its proceedings. The Board annually submits a financial statement of condition for the System with the Commissioner of the Massachusetts Public Employee Retirement Administration Commission, or PERAC. Retirement allowances are approved by the Board and, in certain circumstances, submitted to a PERAC for verification prior to payments being made. Expenses incurred by the System must be approved by two or more members of the Board.

4. DEPOSITS AND INVESTMENTS

MGL and PERAC regulations require the System to invest funds only in preapproved investment instruments, which include, but are not necessarily limited to, bank deposits, money markets, certificates of deposit, U.S. obligations, repurchase agreements, certain corporate bonds and equities and investment pools.

Custodial Credit Risk: Deposits – Deposits are subject to the risk of bank failure. The System may be unable to recover the full amount of its deposits in any one bank institution in the event of a bank failure. The System's policy for custodial credit risk of deposits is to rely on Federal Deposit Insurance Corporation ("FDIC") insurance coverage for the first \$250,000 of deposits held at each financial institution. At December 31, 2019, \$511,937 of the System's bank deposits was not covered by FDIC or other depository insurance.

Investment Policy – The investment of the System's funds is the responsibility of the Board. The Board adopted a revised investment policy statement in September 2017. The investment objective is to ensure that the System's assets are invested to enhance and preserve principal, both in real and nominal terms. The System's investment policy seeks a long-term investment return of 7.25%.

The System's investment policy requires diversification within its investment portfolio. Effective September 2017, the System's portfolio target weights at the broad asset class level were as follows:

| | Target |
|-------------------------|----------------|
| Asset Class | Allocation |
| Equities: | |
| Domestic | 12.0% to 32.0% |
| International | 8.0% to 18.0% |
| Emerging Markets | 0.0% to 10.0% |
| Fixed Income: | |
| Domestic | 5.5% to 15.5% |
| Multisector | 5.5% to 15.5% |
| International | 0.0% to 7.0% |
| Global Asset Allocation | 10.0% to 22.0% |
| Private Equity | 3.0% to 10.0% |
| Real Estate | 4.0% to 10.0% |
| Hedge Funds | 0.0% to 7.0% |

Custody of Investments – People's United Bank is the custodian of the System's investment portfolio.

Rate of Return – The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts actually invested. The 2019 money-weighted rate of return was approximately 15.9%

Investment Management – New England Pension Consultants provided investment advisory services to the System throughout all of 2019. At December 31, 2019, the System had contracted with the following companies to serve as investment managers:

| Investment Advisor | Investment Type |
|--|--|
| Ashmore Investment Management Corp. | Fixed income |
| City of London Investment Management Co. Ltd | International balanced funds |
| Garcia Hamilton & Associates, L.P. | Fixed income |
| Lazard Asset Management LLC | International equities |
| Loomis, Sayles & Company, L.P. | Domestic fixed income and small cap equities |
| Pension Reserves Investment Management Board | Real estate, hedge funds and alternative investments |
| RhumbLine Advisers Limited Partnership | Domestic equities and fixed income |
| William Blair & Company LLC | Global equities, fixed income and currencies |

Custodial Credit Risk: Investments – Custodial credit risk for investments is the risk that in the event of a failure of the counterparty the System will not be able to recover the value of its investments or collateral securities that are in the possession of the outside party. The System's policy for custodial credit risk of investments intends that all investments are either insured and/or registered in the name of the System. At December 31, 2019, the System was not exposed to custodial credit risk on its investments.

Foreign Currency Risk: Investments – Foreign current risk is a risk that fluctuations in exchange rates will adversely affect the fair value of an investment or deposit. The System did not have any securities denominated in foreign currencies at December 31, 2019.

Concentration of Credit Risk: Investments – The following investments held by the System at December 31, 2019 represent approximately 72.5% of the System's total investments:

| Rhumbline Advisers S&P 500 Pooled Index Fund | | | |
|---|-------|--|--|
| Lazard International Strategic Equity Portfolio | 10.7% | | |
| William Blair Macro Allocation Fund | 7.8% | | |
| Loomis Salyes MSFD Fund | 7.7% | | |
| PRIM Core Real Estate Fund | 7.7% | | |
| PRIM Alternative Investments Fund | 7.5% | | |
| City of London Emerging Markets Country Fund | 6.4% | | |
| PRIM Hedge Fund | 5.2% | | |

Interest Rate Risk: Investments – Debt securities are subject to interest rate risk. Debt securities may be adversely affected by changes in interest rates, which may negatively affect the fair value of individual debt instruments. The System does not have a formal investment policy that limits investments maturities as a means of managing its exposure to fair value losses arising from increasing interest rates.

At December 31, 2019, the System has the following investments and maturities:

| | | Investment Maturities (in years) | | | | |
|--------------------------------|----------------|----------------------------------|---------------|--------------|--------------|--|
| | | Less than | 1 to 5 | 6 to 10 | More than | |
| Investment Type | Fair Value | 1 year | years | years | 10 years | |
| U.S. Treasury notes | \$ 6,936,092 | \$ - | \$ 404,777 | \$ 1,991,635 | \$ 4,539,680 | |
| U.S. Agencies obligations | 3,036,399 | 1,704,898 | 504,655 | 826,846 | = | |
| Foreign government bonds | 300,000 | - | 300,000 | - | - | |
| Corporate bonds | 14,486,885 | | 10,840,785 | 3,163,037 | 483,063 | |
| Investments with maturities | 24,759,376 | \$ 1,704,898 | \$ 12,050,217 | \$ 5,981,518 | \$ 5,022,743 | |
| Equity securities | 2,137 | | | | | |
| Mutual funds | 138,761,904 | | | | | |
| PRIT | 41,917,696 | | | | | |
| Investments without maturities | 180,681,737 | | | | | |
| Total investments | \$ 205,441,113 | | | | | |

Credit Risk: Investments – In the case of investments, credit risks the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. As previously noted, MGL and PERAC have enacted regulations to reduce this risk. In evaluating its credit risk, the System relies on credit ratings assigned by nationally recognized credit rating agencies such as Moody's Investor Services, Inc. and Standard and Poor's Financial Services, LLC. The System does voluntarily self-impose certain investment restrictions; however, those can be changed at the Board's discretion. The System maintains a significant portion (approximately 99%) of its monetary assets as investment holdings.

None of the System's equities, mutual funds or other pooled investments were subject to credit quality ratings from credit rating agencies. The following table summarizes the credit ratings for the System's fixed income securities:

| | | U.S. | | | | | |
|----------------|---------|-------------|----|-----------|----|------------|------------------|
| | G | overnment | | Foreign | | | |
| Quality Rating | T_{1} | reasuries & | Go | overnment | | Corporate | |
| (Moody's) | | Agencies | | Bonds | | Bonds | Total |
| Aaa | \$ | 9,972,491 | \$ | - | \$ | 744,242 | \$ 10,716,733 |
| Aa3 | | - | | - | | 351,484 | 351,484 |
| A1 | | - | | - | | 1,051,015 | 1,051,015 |
| A2 | | - | | - | | 3,439,035 | 3,439,035 |
| A3 | | - | | - | | 1,108,005 | 1,108,005 |
| Baa3 | | _ | | - | | 672,760 | 672,760 |
| Ba2 | | _ | | - | | 472,821 | 472,821 |
| B1 | | - | | - | | 741,101 | 741,101 |
| Not Rated | _ | | | 300,000 | _ | 5,906,422 | 6,206,422 |
| | \$ | 9,972,491 | \$ | 300,000 | \$ | 14,486,885 | \$ 24,759,376 |

At December 31, 2019, uninsured short-term investments with fair values of \$1,385,674 were reported as cash equivalents. These funds represent temporary holdings of excess cash resources. The System intends to reinvest these amounts in less than one year. Accordingly, the fair value of these short-term investments has been classified as cash equivalents in these financial statements.

5. FUNDING

Employer Contributions – Under MGL, participating employers are assessed their share of the total retirement cost based on an independent actuarial study. Employer contributions totaled \$12,253,953 in 2019.

Employee Contributions – Employee contribution rates vary based on when an employee commended their creditable service. Active members contribute 5%, 7%, 8% or 9% of their gross regular compensation depending on when their creditable service commenced. Employees hired on or after January 1, 1979 contribute an additional 2% of their gross regular compensation over \$30,000.

Cost-of-Living Adjustments – Cost-of-living adjustments granted between 1981 and 1997 and any increase in other pension benefits imposed by the Commonwealth of Massachusetts during those years are the financial responsibility of the Commonwealth. The Commonwealth is expected to continue funding the cost-of-living amounts granted over this period for the duration of their selected retirement option. Cost-of-living adjustments granted after 1997 must be approved and funded by the System. Cost-of-living adjustments cannot exceed the greater of CPI or 3%. The System approved a 3% cost-of-living adjustment on the first \$16,000 of pension benefits.

6. NET PENSION LIABILITY

The System is statutorily required to adopt the funding schedule that will fully amortize the unfunded actuarial accrued liability by June 30, 2040. As of the latest actuarial valuation, the System has selected a funding schedule that fully amortizes the unfunded actuarial accrued liability by June 30, 2033.

The components of the System's net pension liability at December 31, 2019 were as follows (dollar amounts in thousands):

| Total pension liability | \$ 334,962 |
|--|---------------|
| Plan fiduciary net position | 207,059 |
| Net pension liability | \$ 127,903 |
| Plan fiduciary net position as a percentage of | |
| total pension liability | 61.8% |

The total pension liability was determined by an actuarial valuation as of December 31, 2019. The significant actuarial assumptions used in the actuarial valuation report were as follows:

Actuarial cost method: Individual entry age normal

Asset valuation method: Market value

Investment rate of return: 7.25% per year (formerly 7.5%)

Projected salary increases: 3.50% per year

Cost of living adjustments: 3% on the first \$16,000 of benefits

Mortality rates: Represented by the various SOA Pub-2010 Public

Retirement Plans Mortality Tables specific to group, pre-retirement versus post-retirement, disabled and beneficiaries, with Scale MP-2019 improvements until

2025

Discount Rate – The discount rate used to measure the total pension liability in the December 31, 2019 actuarial valuation was 7.25%, versus 7.5% used in the previous valuation. The projection of cash flows used to determine the discount rate assumed plan member contributions were made at the current contribution rate and that employer contributions will be made at rates equal to the actuarially-determined contribution rates and the member rate. Based on those assumptions, the System's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

Expected Rate of Return – The System's investment policy targets a nominal rate of return of 7.25%. This long-term expected rate of return is presented neither in arithmetic or geometric means.

Sensitivity Analysis – The following illustrates the net position liability at December 31, 2019 calculated using the current discount rate of 7.25%, as well as the projection of what the net position liability would be if it were calculated using a discount rate that is 1.0% lower or higher than the current rate (dollar amounts in thousands):

| Current | | Ne | y At | | | | |
|--------------|-------|----------|------|-------------|-------------|--------|--|
| Discount Rat | te 1% | Decrease | Cu | irrent Rate | 1% Increase | | |
| 7.25% | \$ | 162,130 | \$ | 127,903 | \$ | 98,591 | |

7. LEGALLY REQUIRED RESERVE ACCOUNTS

Net position restricted for pensions at December 31, 2019 was comprised of the following legally required reserves:

| Description | Amount | Purpose |
|-----------------------|----------------|--|
| Annuity Savings Fund | \$ 49,267,056 | Active members' contribution balance |
| Annuity Reserve Fund | 15,935,245 | Retired members' contribution balance |
| Military Service Fund | 4,863 | Members' contributions while on military leave |
| Pension Fund | 1,074,746 | Amounts appropriated to fund future retirement |
| Pension Reserve Fund | 140,776,911 | Remaining net assets |
| | \$ 207,058,821 | |

8. COMMITMENTS AND CONTINGENCIES

The System is subject to a variety of claims that arise from time to time in the ordinary course of business. Although management of the System currently believes that resolving claims against the System, individually or in aggregate, will not have a material adverse impact on the System's financial position or its results of operations, these matters are subject to inherent uncertainties and management's views of these matters may change in the future.

9. SUBSEQUENT EVENT

In March 2020, the World Health Organization declared the breakout of the novel coronavirus COVID-19 as a pandemic. Subsequent to this declaration, worldwide bond and equity markets experienced significant volatility. Substantial liquidation of investments caused market prices for virtually all investment classes to decline significantly. While the System expects this matter may negatively impact its Fiduciary Net Position, the ultimate financial impact cannot be reasonably estimated at this time.

* * * * * *

(A Component Unit of the City of Medford, Massachusetts)

REQUIRED SUPPLEMENTARY INFORMATION - UNAUDITED

SCHEDULE OF CHANGES IN NET PENSION LIABILITY AND RELATED RATIOS

(dollar amounts in thousands)

| | | 2019 | | 2018 | | 2017 | | 2016 | | 2015 | | 2014 |
|--|----|----------|----|----------|----|----------|----|----------|----|----------|----|----------|
| Total pension liability: | | | | | | | | | | | | |
| Service cost | \$ | 6,330 | \$ | 6,116 | \$ | 6,116 | \$ | 5,909 | \$ | 5,709 | \$ | 5,976 |
| Interest | | 21,662 | | 21,204 | | 20,285 | | 19,767 | | 21,229 | | 20,588 |
| Differences between expected and actual experience | | 11,095 | | - | | 6,081 | | - | | (5,236) | | - |
| Changes in assumptions | | 24,449 | | - | | - | | - | | (13,742) | | - |
| Benefit payments, including refunds | | (21,760) | | (21,088) | _ | (19,415) | _ | (18,536) | _ | (18,556) | _ | (17,749) |
| Net change in total pension liability | | 41,776 | | 6,232 | | 13,067 | | 7,140 | | (10,596) | | 8,815 |
| Total pension liability - beginning of year | _ | 293,186 | _ | 286,954 | | 273,887 | | 266,747 | | 277,343 | | 268,528 |
| Total pension liability - end of year (a) | \$ | 334,962 | \$ | 293,186 | \$ | 286,954 | \$ | 273,887 | \$ | 266,747 | \$ | 277,343 |
| Plan fiduciary net position: | | | | | | | | | | | | |
| Contributions - employer | \$ | 12,254 | \$ | 11,560 | \$ | 11,175 | \$ | 11,000 | \$ | 10,500 | \$ | 10,011 |
| Contributions - employee | | 4,857 | | 4,200 | | 3,960 | | 3,928 | | 3,723 | | 3,660 |
| Contributions - nonemployer contributing entities | | 835 | | 1,231 | | 998 | | 1,208 | | 269 | | 638 |
| Net investment income | | 27,244 | | (5,307) | | 21,508 | | 8,196 | | 465 | | 8,741 |
| Benefit payments, including refunds | | (21,760) | | (21,088) | | (19,415) | | (18,536) | | (18,010) | | (17,118) |
| Administrative expenses | | (391) | | (489) | | (321) | | (310) | | (256) | | (272) |
| Other | | 8 | | 43 | | 17 | | 44 | | 33 | | 71 |
| Net change in plan fiduciary net position | | 23,047 | | (9,850) | _ | 17,922 | | 5,530 | | (3,276) | _ | 5,731 |
| Plan fiduciary net position - beginning of year | | 184,012 | | 193,862 | | 175,940 | | 170,410 | | 173,686 | | 167,955 |
| Plan fiduciary net position - end of year (b) | \$ | 207,059 | \$ | 184,012 | \$ | 193,862 | \$ | 175,940 | \$ | 170,410 | \$ | 173,686 |
| Net pension liability - end of year (a) - (b) | \$ | 127,903 | \$ | 109,174 | \$ | 93,092 | \$ | 97,947 | \$ | 96,337 | \$ | 103,657 |
| Plan fiduciary net position as a percentage of the total pension liability | | 61.82% | | 62.76% | | 67.56% | | 64.24% | | 63.88% | | 62.62% |
| Covered payroll | \$ | 46,003 | \$ | 42,469 | \$ | 41,033 | \$ | 40,703 | \$ | 39,326 | \$ | 37,864 |
| Net pension liability as a percentage of covered payroll | | 278.03% | | 257.07% | | 226.87% | | 240.64% | | 244.97% | | 273.76% |

These schedules are presented to illustrate the requirement to show information for ten years. However, until a full ten-year trend is completed, information is presented for those years in which information is available.

See accompanying independent auditors' report.

(A Component Unit of the City of Medford, Massachusetts)

REQUIRED SUPPLEMENTARY INFORMATION - UNAUDITED

SCHEDULE OF CONTRIBUTIONS

| | | | Co | ntributions in | | | | |
|-----------------|----|-------------|----|----------------|--------------|----|----------------|--------------------|
| | | | Re | elation to the | | | | |
| | 1 | Actuarially | 1 | Actuarially | Contribution | | | Contributions as a |
| For Fiscal Year | Γ | Determined | I | Determined | Deficiency | | | Percentage of |
| Ended June 30, | С | ontribution | | Contribution | (Excess) | С | overed Payroll | Covered Payroll |
| | | | | | | | | |
| 2019 | \$ | 12,253,953 | \$ | 12,253,953 | \$ - | \$ | 46,003,071 | 26.64% |
| 2018 | | 11,560,340 | | 11,560,340 | - | | 42,469,301 | 27.22% |
| 2017 | | 11,174,776 | | 11,174,776 | - | | 41,033,141 | 27.23% |
| 2016 | | 11,000,000 | | 11,000,000 | - | | 40,702,740 | 27.03% |
| 2015 | | 10,500,000 | | 10,500,000 | - | | 39,326,319 | 26.70% |
| 2014 | | 10,011,299 | | 10,011,299 | - | | 37,863,532 | 26.44% |

SCHEDULE OF INVESTMENT RETURNS

| | Annual Money- |
|-----------------|------------------|
| For Fiscal Year | Weighted Rate of |
| Ended June 30, | Return * |
| 2010 | 15 000/ |
| 2019 | 15.90% |
| 2018 | -2.14% |
| 2017 | 12.44% |
| 2016 | 5.13% |
| 2015 | 0.28% |
| 2014 | 5.54% |

These schedules are presented to illustrate the requirement to show information for ten years. However, until a full ten-tear trend is completed, information is presented for those years in which information is available.

See accompanying independent auditors' report.

^{*} Net of investment expenses.

MEDFORD CONTRIBUTORY RETIREMENT SYSTEM (A Component Unit of the City of Medford, Massachusetts)

NOTES TO REQUIRED SUPPLEMENTARY INFORMATION AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2019

A. CHANGES OF BENEFIT TERMS

The System may be amended or terminated in whole or in part at any time by the Massachusetts Legislature, provided that no such modification, amendment or termination shall be made that would deprive a current member of superannuation pension rights or benefits provided under applicable laws of Massachusetts, if such member has paid the stipulated contributions specified in sections or provisions of such laws. There were no significant changes to the System's benefit terms in 2019.

B. SIGNIFICANT ACTUARIAL ASSUMPTIONS AND METHODS

The significant actuarial assumptions used in the December 31, 2019 report were as follows:

Actuarial cost method: Individual entry age normal

Asset valuation method: Market value
Investment rate of return: 7.25% per annum
Projected salary increases: 3.50% per year

Cost of living adjustments: 3% on the first \$16,000 of benefits

Mortality rates: Represented by the various SOA Pub-2010 Public

Retirement Plans Mortality Tables specific to group, pre-retirement versus post-retirement, disabled and beneficiaries, with Scale MP-2019 improvements until

2025

C. CHANGES OF ASSUMPTIONS

The discount rate used in the latest valuation report decreased to 7.25% from 7.50%. In addition, the System updated the mortality tables used in its latest actuarial valuation.



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INDEPENDENT AUDITORS' REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING AND ON COMPLIANCE AND OTHER MATTERS BASED ON AN AUDIT OF FINANCIAL STATEMENTS PERFORMED IN ACCORDANCE WITH GOVERNMENT AUDITING STANDARDS

To the Medford Retirement Board Medford Contributory Retirement System Medford, Massachusetts

We have audited, in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the Medford Contributory Retirement System (the "System"), a component unit of the City of Medford, Massachusetts, as of and for the year ended December 31, 2019, and the related notes to the financial statements which collectively comprise the System's basic financial statements and have issued our report thereon dated September 4, 2020.

Internal Control Over Financial Reporting

In planning and performing our audit of the financial statements, we considered the System's internal control over financial reporting (internal control) to determine the audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the System's internal control. Accordingly, we do not express an opinion on the effectiveness of the System's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented or detected and corrected on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or, significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses may exist that have not been identified.

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the System's financial statements are free of material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts and grant agreements, noncompliance with which could have a direct and material effect on the determination of financial statement amounts. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of this Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Roselli, Clark & Associates Certified Public Accountants Woburn, Massachusetts

September 4, 2020

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INDEPENDENT AUDITORS' REPORT ON AUDIT OF SPECIFIC ELEMENTS, ACCOUNTS AND ITEMS OF FINANCIAL STATEMENTS

To the Medford Retirement Board Medford Contributory Retirement System Medford, Massachusetts

We have audited the accompanying schedule of employer allocations of the Medford Contributory Retirement System (the "System"), a component unit of the City of Medford, Massachusetts, as of and for the year ended December 31, 2019. We have also audited the total for all entities of the columns titled net pension liability, total deferred outflows of resources, total deferred inflows of resources and total pension expense (specified column totals) included in the accompanying schedule of pension amounts by employer of the System as of and for the year ended December 31, 2019, and the related notes thereto.

Management's Responsibility for the Schedules

Management is responsible for the preparation and fair presentation of these schedules in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors' Responsibility

Our responsibility is to express opinions on the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Audit Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the schedule of employer allocations and specified column totals included in the schedule of pension amounts by employer are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer. The procedures selected depend on the auditors' judgment, including the assessment of the risks of material misstatement of the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer, whether due to fraud or error. In making those risk assessments, the auditors consider internal control relevant to the entity's preparation and fair presentation of the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the schedule of employer allocations and the specified column totals included in the schedule of pension amounts by employer.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the schedules referred to above present fairly, in all material respects, the employer allocations and net pension liability, total deferred outflows of resources, total deferred inflows of resources, and total pension expense for the total of all participating entities of the System as of and for the year ended December 31, 2019, in accordance with accounting principles generally accepted in the United States of America.

Other Matters

We have audited, in accordance with auditing standards generally accepted in the United States of America, the financial statements of the System as of and for the year ended December 31, 2019, and our report thereon, dated September 4, 2020, expressed an unmodified opinion on those financial statements.

Roselli, Clark & Associates Certified Public Accountants

Woburn, Massachusetts

September 4, 2020

(A Component Unit of the City of Medford, Massachusetts)

SCHEDULE OF EMPLOYER ALLOCATIONS YEAR ENDED DECEMBER 31, 2019

| Employer | Actual Employer Contributions | Employer Allocation Percentage | | |
|--|-------------------------------------|--------------------------------------|--|--|
| City of Medford Medford Housing Authority | \$ 11,635,777 618,176 | 94.96% 5.04% | | |
| Total | \$ 12,253,953 | 100.00% | | |

See notes to schedule of employer allocation and schedule of pension amounts by employer.

(A Component Unit of the City of Medford, Massachusetts)

SCHEDULE OF PENSION AMOUNTS BY EMPLOYER YEAR ENDED DECEMBER 31, 2019

| | City of Medford | Medford Housing Authority | Total |
|---|--------------------------------------|------------------------------------|-----------------------------|
| Net pension liability | \$ 121,450,437 | \$ 6,452,310 | \$ 127,902,747 |
| Deferred outflows of resources: | | | |
| Differences between actual and expected experience Changes of assumptions | \$ 10,601,740 18,706,582 | \$ 563,240 993,827 | \$ 11,164,980 19,700,409 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions | 425,604 | 75,448 | 501,052 |
| Total deferred outflows of resources | \$ 29,733,926 | \$ 1,632,515 | \$ 31,366,441 |
| Deferred inflows of resources: Net difference between projected and actual investment earnings on pension plan investments | \$ 1,516,119 | \$ 80,548 | \$ 1,596,667 |
| Changes in proportion and differences between employer contributions and proportionate share of contributions | 75,448 | 425,604 | 501,052 |
| Total deferred inflows of resources | \$ 1,591,567 | \$ 506,152 | \$ 2,097,719 |
| Pension expense (income): | | | |
| Proportionate share of plan pension expense Proportionate share of plan pension revenue Net amortization of deferred amounts from changes in proportion and differences between employer contributions and proportionate share of contributions | \$ 16,617,983 (448,448) 60,920 | \$ 882,865 (23,825) (60,920) | \$ 17,500,848 (472,273) |
| Total employer pension expense (income) | \$ 16,230,455 | \$ 798,120 | \$ 17,028,575 |

See notes to schedule of employer allocation and schedule of pension amounts by employer.

(A Component Unit of the City of Medford, Massachusetts)

NOTES TO PENSION SCHEDULES AS OF AND FOR THE YEAR ENDED DECEMBER 31, 2019

A. INTRODUCTION

GASB Statement No. 68, Accounting and Financial Reporting for Pensions, establishes financial reporting requirements for governments that provide employees with pension benefits. GASB 68 requires employers to recognize a net pension liability or net pension asset as employees earn pension benefits. Employers participating in the Medford Contributory Retirement System (the "System") will recognize their proportionate share of the collective pension amounts for all benefits provided by the Retirement System.

B. METHOD OF PROPORTIONATE SHARE ALLOCATION

The basis for the proportionate share allocation by employer as found in the Schedule of Employer Allocations and Schedule of Pension Amounts by Employer is consistent with the manner in which employer contributions to the System are determined. The net pension liability, deferred outflows of resources, deferred inflows of resources and pension expense is based upon actual historical employer contributions to the System from the census data submitted by the System for pay periods ending December 31, 2019.

C. EXPECTED FUTURE AMORTIZATION OF DEFERRED BALANCES

The following table summarizes the expected amortization of the deferred outflows of resources and inflows of resources into pension expense.

| | | Medford | |
|--------------------|------------------|-----------------|------------------|
| Measurement Period | City of | Housing | |
| Ended December 31: | Medford | Authority | Total |
| 2020 | \$ 8,293,644 | \$ 289,455 | \$ 8,583,099 |
| 2021 | 7,091,565 | 262,862 | 7,354,427 |
| 2022 | 7,747,717 | 374,744 | 8,122,461 |
| 2023 | 4,018,161 | 155,358 | 4,173,519 |
| 2024 | 991,272 | 43,944 | 1,035,216 |
| | \$ 28,142,359 | \$ 1,126,363 | \$ 29,268,722 |