

**Audited Financial Statements  
and Supplementary Information**

**Delray Beach Firefighters'  
Retirement System**

**September 30, 2018**



**CALER, DONTEN, LEVINE,  
COHEN, PORTER & VEIL, P.A.**

CERTIFIED PUBLIC ACCOUNTANTS

DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

AUDITED FINANCIAL STATEMENTS  
AND SUPPLEMENTARY INFORMATION

SEPTEMBER 30, 2018

INDEPENDENT AUDITOR'S REPORT .....	1
MANAGEMENT'S DISCUSSION AND ANALYSIS.....	3
FINANCIAL STATEMENTS	
Statement of Fiduciary Net Position .....	8
Statement of Changes in Fiduciary Net Position.....	9
Notes to Financial Statements .....	10
REQUIRED SUPPLEMENTARY INFORMATION	
Schedule of Changes in the Net Pension Liability and Related Ratios .....	23
Schedule of City Contributions .....	25
Schedule of Investment Returns.....	26
Notes to Required Supplementary Information.....	27
OTHER SUPPLEMENTARY INFORMATION	
Schedule of Investment and Administrative Expenses.....	29
COMPLIANCE REPORT	
Independent Auditor's Report on Internal Control Over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with <i>Government Auditing Standards</i> .....	30



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## Independent Auditor's Report

To the Board of Trustees  
Delray Beach Firefighters' Retirement System  
Delray Beach, Florida

### **Report on the Financial Statements**

We were engaged to audit the accompanying financial statements of the Delray Beach Firefighters' Retirement System (the "Plan"), which comprise the statement of fiduciary net position as of September 30, 2018 and the related statement of changes in fiduciary net position for the year then ended, and the related notes to the financial statements.

### **Management's Responsibility for the Financial Statements**

Management is responsible for the preparation and fair presentation of these financial statements in accordance with U.S. generally accepted accounting principles; 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.

### **Auditor's Responsibility**

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with U.S. generally accepted auditing standards 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 auditor's 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 opinion.

## **Opinion**

In our opinion, the financial statements referred to above present fairly, in all material respects, the fiduciary net position of the Delray Beach Firefighters' Retirement System as of September 30, 2018, and the respective changes in fiduciary net position for the year then ended in conformity with U.S. generally accepted accounting principles.

## **Other Matters**

### *Required Supplementary Information*

U.S. generally accepted accounting principles require that the management's discussion and analysis on pages 3 to 7 and the pension information on pages 23 to 28 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 U.S. generally accepted auditing standards, 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 Supplementary Information*

Our audit was conducted for the purpose of forming an opinion on the basic financial statements as a whole. The Schedule of Investment and Administrative Expenses is presented for purposes of additional analysis and is not a required part of the basic financial statements.

The Schedule of Investment and Administrative Expenses is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with U.S. generally accepted auditing standards. In our opinion, the other supplementary information is fairly stated in all material respects in relation to the basic financial statements as a whole.

## **Other Reporting Required by *Government Auditing Standards***

In accordance with *Government Auditing Standards*, we have also issued our report dated March 11, 2019 on our consideration of the Plan's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely 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 effectiveness of the Plan's 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 Plan's internal control over financial reporting and compliance.

*Caleb, Dauter, Levine,  
Cohen, Porter & Veil, P.A.*

West Palm Beach, Florida  
March 11, 2019

## **Delray Beach Firefighters' Retirement System**

### **Management's Discussion and Analysis**

As management of the Delray Beach Firefighters' Retirement System (the "Plan"), we offer readers of the Plan's financial statements this narrative overview of the financial activities of the Plan for the year ended September 30, 2018. This narrative is intended to supplement the Plan's financial statements, and we encourage readers to consider the information presented here in conjunction with these statements, which begin on page 8.

#### **Overview of the Financial Statements**

The following discussion and analysis is intended to serve as an introduction to the Plan's financial statements. The financial statements include:

- Statement of Fiduciary Net Position
- Statement of Changes in Fiduciary Net Position
- Notes to the Financial Statements

This report also contains the following *Required Supplementary Information* to the financial statements:

- Schedule of Changes in the Net Pension Liability and Related Ratios
- Schedule of City Contributions
- Schedule of Investment Returns
- Notes to Required Supplementary Information

The financial statements contained in the report are described below:

- The Statement of Fiduciary Net Position is a point-in-time snapshot of account balances at fiscal year-end. It reports the assets available for future payments to retirees and any current liabilities that are owed as of the statement date. The resulting Net Position (Assets – Liabilities = Net Position) represents the value of assets held in trust for pension benefits.
- The Statement of Changes in Fiduciary Net Position displays the effect of pension fund transactions that occurred during the fiscal year, where Additions – Deductions = Net Increase (Decrease) in Net Position. This Net Increase (Decrease) in Net Position reflects the change in the net asset value of the Statement of Fiduciary Net Position from the prior year to the current year. Both statements are in compliance with Governmental Accounting Standards Board (GASB) Pronouncements.
- The Notes to the Financial Statements are an integral part of the financial statements and provide additional information that is essential to the comprehensive understanding of the data provided in the financial statements. These notes describe the accounting and administrative policies under which the Plan operates and provide additional levels of detail for select financial statement items (See Notes to Financial Statements on pages 10 to 22 of this report).

Because of the long-term nature of a defined benefit pension plan, financial statements alone cannot provide sufficient information to properly reflect the ongoing plan perspective. Therefore, in addition to the financial statements explained above, this financial report includes three additional *Required Supplementary Information* schedules with historical trend information.

- The Schedule of Changes in the Net Pension Liability and Related Ratios (pages 23 to 24) includes information about the sources of changes to the net pension liability and to the changes in Plan fiduciary net position. It also provides information regarding the fiduciary net position as a percentage of covered payroll and the net pension liability as a percentage of covered payroll.
- The Schedule of City Contributions (page 25) presents information regarding the value of total annual contributions required to be paid by the City and the actual performance of the City in meeting this requirement.
- The Schedule of Investment Returns (page 26) provides information regarding the Plan rate of return.
- The Notes to the Required Supplementary Information (pages 27 to 28) provide background information and explanatory detail to aid in understanding the required supplementary schedules.

### **Financial Highlights**

For fiscal years ended September 30, 2016 and prior, firefighters participated in the City of Delray Beach Police and Firefighters Retirement System (the “Legacy Plan”) that provided pension benefits to both City police officers and firefighters. Effective October 1, 2016, the City Commission adopted City Ordinance No. 17-16, which provided for the establishment of separate retirement systems for the City’s firefighters and police officers, a new board of trustees for each system, changes in the allocation and use of Chapter 175 and 185 premium tax revenues, and changes to the retirement benefits of firefighters and police officers. Ordinance No. 17-16 specified that the determination of the assets and liabilities of the Legacy Plan allocable to the Plan should be made by the Plan’s actuary. The actuarial allocation was based on the census data, plan provisions, assumptions and methods used for the October 1, 2015 actuarial valuation of the Legacy Plan. The allocation method resulted in an allocation of 52.569% of the Legacy Plan assets to the new Delray Beach Firefighters’ Retirement System. The financial position and operating results of the Plan as of and for the years ended September 30, 2018 and 2017 present only the stand-alone, segregated Plan, although investments in a timber fund and real estate funds held by the Legacy Plan and the related income are allocated to the Delray Beach Firefighters’ Retirement System based on the actuarial percentage.

- The net position of the Plan restricted for pension benefits at the close of the fiscal years ended September 30, 2018 and 2017 was \$115,584,069 and \$109,087,124, respectively.
- Net position increased by \$6,496,945 or 6.0% during 2018, primarily due to the current year’s contributions and investment income.
- For the year ended September 30, 2018 Plan net position was 68.6% of the total pension liability of \$168,527,216. The net pension liability was \$52,943,147 at September 30, 2018, which was 504.5% of covered payroll.
- Additions to fiduciary net position for the year ended September 30, 2018 were \$16,321,657, which includes City, Firefighter and State contributions totaling \$7,719,478 and net income from investment activities totaling \$8,602,179.
- Deductions from fiduciary net position increased to \$9,824,712 in 2018. Most of the increase relates to increased participant benefit payments made in 2018.

## Analysis of Financial Activities

The Plan's funding objective is to meet long-term benefit obligations through investment income and contributions. Accordingly, the collection of employer and member contributions, and the income from investments provide the reserves needed to finance future retirement benefits.

Contributions from the City of Delray Beach are made at levels determined by the Plan's actuary. Because expected investment returns and expected payroll growth has remained stable compared to previous years, the City's contribution requirement has increased slightly. Net position restricted for pension benefits increased by \$6,496,945 in 2018.

**Fiduciary Net Position  
Table 1**

			Increase (Decrease)
	2018	2017	2018 - 2017
<b>Assets</b>			
Current and other assets	\$ 2,341,581	\$ 658,314	\$ 1,683,267
Investments	<u>114,007,993</u>	<u>108,590,365</u>	<u>5,417,628</u>
Total Assets	<u>116,349,574</u>	<u>109,248,679</u>	<u>7,100,895</u>
<b>Liabilities</b>	<u>765,505</u>	<u>161,555</u>	<u>603,950</u>
<b>Fiduciary Net Position</b>	<u>\$ 115,584,069</u>	<u>\$ 109,087,124</u>	<u>\$ 6,496,945</u>

As the years roll forward and total assets and liabilities grow, investment income will continue to play an important role in funding future retirement benefits. Therefore, investment return over the long term is critical to the funding status of the retirement Plan.

During 2018, the Plan's investment portfolio returned income of 8.01% as compared to 10.78% for the prior year. It is important to remember that a retirement Plan's funding is based on a long time horizon, where temporary ups and downs in the market are expected. The more critical factor is that the Plan be able to meet an expected annual earnings yield of 7.25% on investments (lowered from 8.0% in the prior year).

Based on the latest actuarial analysis for the year ended September 30, 2018, the Plan's total pension liability exceeds its Plan net position by \$52.9 million, producing a plan net position as a percent of total pension liability of 68.6%.

## Financial Analysis Summary

As previously noted, net position viewed over time may serve as a useful indication of the Plan's financial position (see Table 1 above). At the close of fiscal year 2018, the assets of the Plan exceeded its current liabilities by \$115,584,069, shown as net position restricted for pensions. The net position is available to meet the Plan's ongoing obligation to Plan members and their beneficiaries.

## Fiduciary Net Position

The Plan's fiduciary net position is established from employer and member contributions, and the accumulation of investment income, net of investment and administrative expenses and benefit payments.

## Additions to Fiduciary Net Position

As noted above, fiduciary net position needed to finance retirement benefits are accumulated through collecting employer and member contributions and through investment earnings (net of investment expenses.) The

additions totaled \$16,321,657 for the year ended September 30, 2018. This was \$3,572,144 less than the prior year, due to a decrease in the City contribution and decreased investment returns.

**Additions to Fiduciary Net Position**  
**Table 2**

			Increase (Decrease)
	2018	2017	2018 - 2017
<b>Contributions</b>			
City	\$ 5,653,320	\$ 7,262,595	\$ (1,609,275)
Firefighters	991,333	810,284	181,049
State of Florida	<u>1,074,825</u>	<u>1,134,704</u>	<u>(59,879)</u>
Total Contributions	<u>7,719,478</u>	<u>9,207,583</u>	<u>(1,488,105)</u>
<b>Net Investment Income</b>	<u>8,602,179</u>	<u>10,686,218</u>	<u>(2,084,039)</u>
<b>Total Additions</b>	<u>\$ 16,321,657</u>	<u>\$ 19,893,801</u>	<u>\$ (3,572,144)</u>

**Deductions from Fiduciary Net Position**

The Plan was created to provide retirement, survivor and disability benefits to qualified members and their beneficiaries. The cost of such programs includes recurring benefit payments, refunds of contributions to employees who terminate employment, and the cost of administering the Plan.

**Deductions from Fiduciary Net Position**  
**Table 3**

			Increase (Decrease)
	2018	2017	2018 - 2017
<b>Benefit Payments</b>			
Retirement and disability payments	\$ 6,707,239	\$ 6,181,403	\$ 525,836
DROP withdrawals	2,995,727	3,221,378	(225,651)
Refunds of participant contributions	<u>10,449</u>	<u>33,444</u>	<u>(22,995)</u>
Total Benefit Payments	<u>9,713,415</u>	<u>9,436,225</u>	<u>277,190</u>
<b>Administrative Expenses</b>	<u>111,297</u>	<u>146,369</u>	<u>(35,072)</u>
<b>Total Deductions</b>	<u>\$ 9,824,712</u>	<u>\$ 9,582,594</u>	<u>\$ 242,118</u>

Total deductions for the year ended September 30, 2018 totaled \$9,824,712, an increase of 2.5% from 2017. The increase was primarily due to increased benefit payments in 2018. Deductions for the year ended September 30, 2017 totaled \$9,582,594.

The additions to plan net position of \$16,321,657 and deductions from Plan fiduciary net position of \$9,824,712 resulted in an overall increase of \$6,496,945 resulting from operations for the year ended September 30, 2018. The additions to plan net position of \$19,893,801 and deductions from Plan fiduciary net position of \$9,582,594 resulted in an overall increase of \$10,311,207 in net position restricted for pension benefits for the year ended September 30, 2017.

**Fiduciary Responsibilities**

The Board of Trustees is the fiduciary of the pension trust fund. Fiduciaries are charged with the responsibility of assuring that the assets of the Plan are used exclusively for the benefit of Plan members and their beneficiaries and defraying reasonable expenses of administering the Plan.



## **Requests for Information**

This financial report is designed to provide the Board of Trustees, Plan members, taxpayers and investment managers with an overview of the Plan's finances and accountability for the money received. Questions concerning any of the information provided in this report or requests for additional financial information should be addressed to:

Pension Administrator  
Delray Beach Firefighters' Retirement System  
City of Delray Beach Finance - Pension Office  
100 NW 1<sup>st</sup> Avenue  
Delray Beach, FL 33444

**DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM**

STATEMENT OF FIDUCIARY NET POSITION

September 30, 2018

	<b>Defined Benefit Pension Plan</b>	<b>Deferred Retirement Option (DROP) Pension Plan</b>	<b>Total Pension Trust Funds</b>
<b>ASSETS</b>			
Cash	\$ 2,599	\$ -	\$ 2,599
Receivables:			
Firefighters' contributions	36,014	-	36,014
State of Florida contribution	1,074,825	-	1,074,825
Interest and dividends	122,033	-	122,033
Pending trades receivable	1,106,110	-	1,106,110
Total Receivables	<u>2,338,982</u>	-	<u>2,338,982</u>
Investments:			
Money market mutual funds	2,278,465	-	2,278,465
U.S. Government securities	8,563,685	-	8,563,685
U.S. Government Agency securities	1,014,959	-	1,014,959
Mortgage and asset-backed securities	428,724	-	428,724
Domestic corporate bonds	7,368,164	-	7,368,164
International fixed income investment fund	3,840,576	-	3,840,576
Domestic equity securities	33,626,458	-	33,626,458
Domestic equity mutual funds	4,556,031	-	4,556,031
Domestic equity index funds	9,469,020	-	9,469,020
International equity mutual funds	16,998,721	-	16,998,721
Foreign stocks	405,402	-	405,402
Timber investment funds	1,366,847	-	1,366,847
Real estate investment trusts	511,840	-	511,840
Real estate investment funds	8,442,849	-	8,442,849
Fixed income alternative investment fund	3,720,454	-	3,720,454
Participant directed pooled investment funds	-	11,415,798	11,415,798
Total Investments	<u>102,592,195</u>	<u>11,415,798</u>	<u>114,007,993</u>
Total Assets	<u>104,933,776</u>	<u>11,415,798</u>	<u>116,349,574</u>
<b>LIABILITIES</b>			
Accounts payable	77,623	-	77,623
Pending trades payable	600,024	-	600,024
Due to Police Officers' Retirement System	87,858	-	87,858
Total Liabilities	<u>765,505</u>	-	<u>765,505</u>
<b>NET POSITION</b>			
Restricted for pension benefits	<u>\$ 104,168,271</u>	<u>\$ 11,415,798</u>	<u>\$ 115,584,069</u>

See notes to financial statements.

**DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM**

STATEMENT OF CHANGES IN FIDUCIARY NET POSITION

Year Ended September 30, 2018

	<b>Defined Benefit Pension Plan</b>	<b>Deferred Retirement Option (DROP) Pension Plan</b>	<b>Total Pension Trust Funds</b>
<b>ADDITIONS</b>			
Contributions:			
City of Delray Beach	\$ 4,374,387	\$ 1,278,933	\$ 5,653,320
Firefighters	991,333	-	991,333
State of Florida	1,074,825	-	1,074,825
Total Contributions	<u>6,440,545</u>	<u>1,278,933</u>	<u>7,719,478</u>
Investment earnings:			
Net appreciation in fair value of investments	5,927,177	762,812	6,689,989
Interest, dividends and investment fund income	2,647,741	-	2,647,741
Other investment income	6,556	-	6,556
	<u>8,581,474</u>	<u>762,812</u>	<u>9,344,286</u>
Less investment expenses	<u>(742,107)</u>	<u>-</u>	<u>(742,107)</u>
Net Investment Earnings	<u>7,839,367</u>	<u>762,812</u>	<u>8,602,179</u>
Total Additions	14,279,912	2,041,745	16,321,657
<b>DEDUCTIONS</b>			
Firefighters benefits	6,707,239	-	6,707,239
Deferred retirement option (DROP) benefits	1,278,933	1,716,794	2,995,727
Refunds of participant contributions	10,449	-	10,449
Administrative expenses	111,297	-	111,297
Total Deductions	<u>8,107,918</u>	<u>1,716,794</u>	<u>9,824,712</u>
Increase In Plan Net Position	6,171,994	324,951	6,496,945
<b>NET POSITION RESTRICTED FOR PENSIONS</b>			
Beginning of year	<u>97,996,277</u>	<u>11,090,847</u>	<u>109,087,124</u>
End of year	<u>\$ 104,168,271</u>	<u>\$ 11,415,798</u>	<u>\$ 115,584,069</u>

See notes to financial statements.

# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

## Notes to Financial Statements

September 30, 2018

### 1. Summary of Significant Accounting Policies

Reporting Entity: The Delray Beach Firefighters' Retirement System (the "Plan") was established by the City of Delray Beach, Florida, to account for the financial activity of the defined benefit pension plan and deferred retirement option plan (DROP) that accumulate funds for the retirement pensions of City firefighters. The Plan uses separate fiduciary funds to report resources that are held in trust for the members and beneficiaries of the defined benefit pension plan and DROP plan (a defined contribution plan). The Plan is reported as a fiduciary fund (pension trust) in the City's basic financial statements.

Measurement Focus and Basis of Accounting: The Plan's financial statements are prepared in accordance with U.S. generally accepted accounting principles (GAAP) as prescribed by the Governmental Accounting Standards Board (GASB). The financial statements are reported using the economic resources measurement focus and the accrual basis of accounting. Under this method, revenues are recorded when earned and expenses are recorded when the liabilities are incurred. Contributions from the Plan's members are recognized as revenue in the period in which the contributions are due. Contributions from the City, as calculated by the Plan's actuary, are recognized as revenue when due and when the City is legally required to provide the contributions. Benefits and refunds are recognized when due and payable in accordance with the terms of the Plan.

Cash: Cash includes temporary cash balances held by the Plan's investment managers and are uninsured and uncollateralized.

Investments: The Plan's investment functions for the defined benefit plan are performed by independent investment managers under the direction of the Board of Trustees. The defined benefit plan investments are held in safekeeping by a custodian independent of the investment managers. The DROP investments are self-directed participant accounts investing in pooled investments in mutual funds available through an affiliate of ICMA. Investments are reported at fair value or net asset value, except for money market mutual funds that are reported at amortized cost, which approximates fair value. Securities traded on national or international exchanges are valued at the last reported sales price. Net asset values of the timber and real estate funds are determined by the fund managers using fair market values of the underlying investments of the fund. Net appreciation (depreciation) in fair value of investments includes the difference between cost and fair value of investments held as well as the net realized gains and losses for securities which are sold. Interest and dividend income are recognized on the accrual basis when earned. Purchases and sales of investments are recorded on a trade date basis.

Net Position: The net position of the Plan is restricted for pension benefits pursuant to legal restrictions of the enabling City ordinance that requires all Plan assets be utilized for pension benefits.

Investment and Administrative Expenses: Investment management fees are typically paid based on individually negotiated investment management agreements. The investment management fees are usually paid quarterly based on the investment portfolio's net asset value at the end of the quarter or may be performance related based on exceeding a market benchmark. Fees are paid from the appropriate investment manager's portfolio and are recognized as investment expenses in the Statement of Changes in Fiduciary Net Position over the time period to which the fees apply. Investment expenses also include custody fees paid to the Plan's investment custodian and performance monitoring fees paid to outside investment consultants engaged by the Plan.

# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

Notes to Financial Statements

September 30, 2018

## 1. Summary of Significant Accounting Policies (Continued)

Administrative expenses include the various costs of administering the operations of the Plan, including fees for actuarial, audit, insurance and legal services, allocable costs for services provided by the City and office related expenses for supplies, postage and telephone.

Risk Management: The Plan is exposed to various risks of loss related to torts; theft of assets; fiduciary duty; and, errors and omissions. The Plan is also subject to risk of loss arising in the ordinary course of business, including, but not limited to, claims for damages for personal injuries and breach of contract. The Plan purchases commercial insurance for these risks. There were no significant reductions in insurance coverage from the prior year and no settlements in excess of coverage for the prior three years.

As a political subdivision of the State of Florida, the Plan has sovereign immunity under the Florida Constitution for tort actions. Therefore, in accordance with Chapter 768.28 Laws of Florida, the Plan is not liable to pay a claim or judgment, or any portions thereof, which when totaled with all other claims or judgments paid by the State or its agencies or subdivisions arising out of the same incident or occurrence, exceeds the aggregate sum of \$300,000. Chapter 768.28 also provides that judgments may be claimed or rendered in excess of these limits; however, these amounts must be reported to and approved by the Florida Legislature.

New Accounting Pronouncements: GASB Statement No. 84, *Fiduciary Activities*, establishes guidance regarding what constitutes fiduciary activities for accounting and financial reporting purposes, the recognition of liabilities to beneficiaries, and how fiduciary activities should be reported. GASB Statement No. 84 will be effective for the Plan's fiscal year ending September 30, 2020. The Plan has not determined the effect, if any, of the new GASB Statement on the Plan's financial statements.

Use of Estimates: Management uses estimates and assumptions in preparing financial statements in accordance with U.S. generally accepted accounting principles (GAAP). Those estimates and assumptions affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities, and the reported amounts of revenues and expenses. Actual results could vary from the estimates that were used.

## 2. Plan Description

The following brief description of the Plan is provided for general information purposes only. Members should refer to the enabling City ordinance for more complete information.

The Plan was originally established in 1974 by the City of Delray Beach as the City of Delray Beach Police and Firefighters Retirement System (the "Legacy Plan") to provide pension benefits to all full-time City police officers and firefighters. Effective October 1, 2016, the City Commission adopted City Ordinance No. 17-16, which provided for the establishment of separate retirement systems for the City's police officers and firefighters, a new board of trustees for each system, changes in the allocation and use of Chapter 175 and 185 premium tax revenues, and changes to the retirement benefits of firefighters and police officers. The changes in Ordinance No. 17-16 were ratified by the

## DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

Notes to Financial Statements

September 30, 2018

### 2. Plan Description (Continued)

City's collective bargaining agreements with the Professional Fire Fighters/Paramedics of Palm Beach County, Local 2928, IAFF and the Palm Beach County Police Benevolent Association. Unless otherwise noted, these financial statements present only the financial activity of the Delray Beach Firefighters' Retirement System established on October 1, 2016 pursuant to Ordinance No. 17-16.

Plan Administration: The Plan is governed by Florida Statutes Chapter 175, as revised by ordinances passed by the City of Delray Beach City Commission. Additionally, the Fund is governed by Chapter 112, Part VII, of the Florida Statutes. All full time firefighters of the City are required to participate in the Plan as a condition of employment. Civilian members of the City Fire Department and the Fire Chief, upon the Fire Chief's written election not to participate, are excluded from the Plan.

The Plan is managed by a five member Board of Trustees consisting of the following members: two legal residents of the City who are appointed by the City Commission; two full-time City firefighters elected by the active members of the Plan; and a fifth member chosen by a majority of the other four members. Each trustee serves for a term of four years, except for the fifth member who serves for a two year term. Each trustee may serve successive terms.

Plan Membership: The Plan membership as of October 1, 2017, the date of the most recent actuarial valuation, is summarized as follows:

<b>Retirees and Beneficiaries</b>	
Retirees and beneficiaries receiving benefits	112
DROP retirees	16
Terminated employees entitled to benefits but not receiving them	0
Total Retirees and Beneficiaries	128
 <b>Active Members</b>	
Vested	67
Nonvested	66
Total Active Members	133

Pension Benefits: The Plan provides retirement, death and disability benefits for firefighters. Benefit provisions are established and may be amended by City Ordinance.

*Eligibility for Normal Retirement* - For firefighters hired on or before October 4, 2016, eligibility for normal retirement is the earlier of age 55 and 10 years of service or 20 years of service regardless of age. For firefighters hired after October 4, 2016, eligibility for normal retirement is the earlier of age 55 and 10 years of service or 25 years of service regardless of age.

*Annual Retirement Benefit* - The annual retirement benefit for firefighters is based on the date of hire as follows:

# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

## Notes to Financial Statements

September 30, 2018

### 2. Plan Description (Continued)

A) Firefighters hired on or before October 4, 2016 with 20 or more years of service on October 4, 2016, receive 3.5% (if the enhanced multiplier is elected or 3.0% if it is not elected) times the Firefighter's average final compensation for all credited service (subject to a maximum benefit equal to 87.5% of average final compensation).

B) Firefighters hired on or before October 4, 2016 with less than 20 years of service on October 4, 2016, and retiring with:

1) more than 20 years of service receive at retirement receive 3.5% (if the enhanced multiplier is elected or 3.0% if it is not elected) times the firefighter's average final compensation for all credited service prior to October 4, 2016 plus 3.0% times the firefighter's average final compensation times all years of credited service after October 4, 2016 (subject to a maximum annual benefit of \$100,000, but not less than 2.0% times average final compensation for each year of credited service).

2) less than 20 years of service at retirement receive 2.5% times the firefighter's average final compensation times all years of credited service prior to October 4, 2016 plus 3.0% times the firefighter's average final compensation times all years of credited service after October 4, 2016 (subject to a maximum annual benefit of \$100,000, but not less than 2.0% times average final compensation for each year of credited service).

C) Firefighters hired after October 4, 2016 receive 2.75% times the firefighter's average final compensation times all years of credited service (subject to a maximum annual benefit of \$100,000, but not less than 2.0% times average final compensation for each year of credited service).

Firefighters hired after April 9, 2013 may not elect the enhanced multiplier.

*Early Retirement* - A participant age 50 with 10 or more years of credited service is eligible for early retirement. Early retirement benefits are computed in the same manner as normal retirement, based upon the participant's final average salary and credited service at the date of termination, reduced by 3.0% for each year prior to the normal retirement date. Firefighters hired after October 4, 2016, are not eligible for early retirement benefits.

*Disability Benefits* - Disability benefits for service related disabilities are based on a determination of total and permanent disability by the Board of Trustees. Ten years of service are required for non-service related disability benefits. The disability benefit is the participant's accrued pension benefit, but not less than 60% of the participant's average final compensation for service related disabilities. For non-service related disabilities, the benefit is 2.0% of average final compensation times the years of credited service with a minimum of 25% of the participant's average final compensation.

*Death Benefits* - For any firefighter who dies in the line of duty, the surviving spouse shall receive until death or remarriage 50% of the firefighter's final average compensation. Each surviving child under age 18 shall receive 5% of the firefighter's final average compensation until age 18 (or 22 if a full-time student). The maximum service-incurred survivor benefit is 60% of the firefighter's final average compensation. For any firefighter with more than five years of service whose death is not in the line of

# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

## Notes to Financial Statements

September 30, 2018

### 2. Plan Description (Continued)

duty, the surviving spouse shall receive until death or remarriage 65% of the firefighter's accrued benefit at the time of death, subject to a minimum benefit of 20% of the firefighter's final average earnings. Each surviving child under age 18 shall receive 5% of the firefighter's final average earnings until age 18 (or 22 if a full-time student) with the total death benefit limited to 50% of the firefighter's final average compensation.

*Cost of Living Adjustments* - Post retirement cost of living adjustments are provided for pension recipients. An annual increase equal to a 1% base benefit plus what can be funded from State revenues applies for those who retired after October 1, 1993, commencing on the 25<sup>th</sup> anniversary of the retiree's hire date.

*Deferred Retirement Option Plan (DROP)* - Firefighters are eligible to enter the Deferred Retirement Option Plan (DROP) at the normal retirement date, while continuing active employment as a firefighter. Upon entering into the DROP, the participant becomes a retiree for all Plan purposes and the accrued benefit is frozen. The maximum duration of DROP participation is 5 years. Normal retirement payments that would have been payable to the participant as a result of retirement are paid to and invested in the DROP to be distributed to the participant upon his or her request or as required by law.

The Board of Trustees contracts with the International City Management Association Retirement Corporation (ICMA-RC) to administer the DROP through a separate 401(a) plan. Firefighters who elect to participate in DROP are required to use a self-directed investment program through the ICMA 401(a) plan. The DROP participants self-direct their account in investment options offered by ICMA and approved by the Plan's Board of Trustees. The assets of the DROP cannot be legally accessed by the Plan to pay retirement benefits to other Plan participants because the DROP assets are held in the participants' name in a separate trust under the 401(a) plan. Accordingly, the DROP plan has been reported as a separate defined contribution plan in the accompanying financial statements.

Contributions: Contribution requirements are established and may be amended by City Ordinance. Contribution requirements are based on the benefit structure established by the City. Members are required to contribute 9.0% of salary until the member reaches 25 years of continuous service. Pursuant to Chapter 175, Florida Statutes, a premium tax on certain fire insurance contracts written on properties within the corporate boundaries of the City is collected by the State and remitted to the Plan for the State's annual contribution amount. The City is required to contribute the remaining amounts necessary to finance the Plan's benefits through periodic contributions at actuarially determined rates sufficient to pay the normal cost plus an amount sufficient to amortize the unfunded accrued past service liability over a period not greater than 30 years. By mutual agreement of the City and the firefighters' union, all annual premium tax moneys received pursuant to Chapter 175, up to \$1,206,994, the amount received during the 2013 calendar year, shall be used to offset the cost of current benefits by reducing the City's annual required contribution to the Plan.

A rehired member may buy back one or more years of continuous past service by paying into the Plan the full actuarial cost of such service, as determined by the Plan's actuary, including the cost of the required actuarial calculations. The buy-back of past service must be paid to the Plan prior to entering DROP and over a period not to exceed 5 years.



# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

## Notes to Financial Statements

September 30, 2018

### 3. Investments

Vesting and Refunds of Member Contributions: Firefighters who terminate employment with less than 10 years of continuous service, upon the election to receive a refund of member contributions, receive a noncompounded, simple interest rate of three percent per year applied to the principal balance of the participant's contributions as accrued on December 31<sup>st</sup> of each year. Employees who terminate employment with 10 years or more of continuous service, upon the election to receive a refund of member contributions, receive a noncompounded, simple interest rate of five percent per year applied to the principal balance of the participant's contribution as accrued on December 31<sup>st</sup> of each year. Each member is guaranteed the payment of benefits at least equal in total to his accumulated contributions plus interest as provided herein. Any forfeitures that may arise upon the termination of a member's employment are used to offset the City's contribution.

*Authorized Investments* - Florida Statutes and the Plan's investment policy authorize the Plan to invest in Florida Prime (a State administered investment pool); negotiable direct obligations of or obligations unconditionally guaranteed by the U.S. Government; interest-bearing time deposits or savings accounts in financial institutions located in Florida and organized under Federal or Florida laws; money market mutual funds limited to U.S. Government securities; obligations of the Federal Farm Credit Banks, Fannie Mae, Freddie Mac, the Federal Home Loan Bank or its district banks; obligations guaranteed by the Government National Mortgage Association; and any additional investments authorized by the Plan's investment policy.

The Plan's investment policy further authorizes the Plan to invest, with certain limitations, in tax sale certificates of the State of Florida or any of its political subdivisions, preferred and common stocks of certain domestic and international corporations, debt securities of certain domestic and international corporations, mutual funds (including exchange traded funds), and alternative investments, including private investment funds consisting of equity and fixed income investments, timber, real estate, and similar investments that are not publicly traded.

*Investment Allocation* - The policy in regard to the allocation of invested assets is established and may be amended by a majority vote of the Board of Trustees. It is the Board of Trustees' policy to pursue an investment strategy that reduces risk through the prudent diversification of the investment portfolio across a broad selection of distinct asset classes. The investment policy of the Plan discourages the use of cash equivalents, except for liquidity purposes, and aims to refrain from dramatically shifting asset class allocations over short time spans. The investment strategy and allocations are reviewed quarterly with the assistance of the Plan's investment consultant and are rebalanced to the target asset allocations based on market conditions.

The long-term expected net rate of return on investments was determined using a building-block method. Best-estimate ranges of expected future rates of return (expected returns net of investment expense and inflation) are developed for each major asset class. The long-term expected net rate of return on investments is the best-estimate ranges weighted by asset allocation plus expected inflation. Best estimates of arithmetic real rates of return for each major asset class as provided by the investment managers, together with the Board of Trustees' adopted asset allocation policy as of September 30, 2018, are as follows:

# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

## Notes to Financial Statements

September 30, 2018

### 3. Investments (Continued)

Asset Class	<u>Target Allocation</u>	<u>Long-Term Expected Real Rate Of Return</u>
Domestic equity	42.5%	7.5%
International equity	15.0	8.5
Fixed income	27.5	2.5
Real estate	10.0	4.5
Alternatives	5.0	6.2
Total	100.0%	

Rate of Return: The annual money-weighted rate of return on Plan investments, net of pension investment expense, was 8.01% for the year ended September 30, 2018. The money-weighted rate of return expresses investment performance, net of investment expense, adjusted for the changing amounts invested.

Fair Value of Investments: The Plan follows the provisions of GASB Statement No. 72, *Fair Value Measurement and Application*, which establishes a framework for measuring the fair value of investments in a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives highest priority to unadjusted quoted prices in active markets for identical assets (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of the fair value hierarchy under GASB Statement No. 72 are described below:

Level 1: Inputs to the valuation methodology are unadjusted quoted prices for identical assets in active markets that the Plan has the ability to access at the measurement date.

Level 2: Inputs to the valuation methodology include the following:

- Quoted prices for similar assets in active markets.
- Quoted prices for identical or similar assets in inactive markets.
- Inputs other than quoted prices that are observable for the assets.
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3: Inputs to the valuation methodology are unobservable and significant to the fair value measurement. These unobservable inputs reflect the entity's own estimates for assumptions that market participants would use in pricing the asset or liability. Valuation techniques would typically include discounted cash flow models and similar techniques, but may also include the use of market prices of assets that are not directly comparable to the subject asset.

# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

## Notes to Financial Statements

September 30, 2018

### 3. Investments (Continued)

The fair value measurement of an asset within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs. The categorization of an investment within the fair value hierarchy is based upon the pricing transparency of the investment and does not necessarily correspond to the Plan's perceived risk of that investment.

*Valuation Methodologies:* The following valuation methods and assumptions were used by the Plan to estimate the fair value of financial instruments measured at fair value on a recurring basis under GASB Statement No. 72:

*Domestic equity securities, domestic and international equity mutual funds, domestic equity index funds and foreign stocks:* Valued at the closing price reported on the active exchange on which the individual securities are actively traded.

*U.S. Government and Agency securities, mortgage and asset-backed securities, corporate bonds and the international fixed income investment fund:* Valued at the closing price reported on the active exchange on which the individual securities are actively traded. Securities that are not actively traded are valued using a matrix pricing technique based on the securities' relationship to quoted benchmark prices.

*Domestic equity index fund:* Valued at the closing net asset value reported on the active exchange on which the individual investment fund is actively traded.

*DROP participant directed accounts:* Price/unit values for DROP investment options are calculated daily by the DROP provider based on the quoted price on a national exchange for the underlying mutual funds held in comingled pooled investment accounts through a group trust, adjusted for certain expense factors disclosed in the DROP provider contract.

*Investments measured at net asset value (NAV):* Pooled equity index funds, timber and real estate investment funds and the fixed income alternative investment fund, are valued at the unadjusted NAV per share at September 30, 2018, calculated in a manner consistent with the Financial Accounting Standards Board's measurement principles for investment companies based on the fair value of the underlying fund investments, as determined by the fund manager or by valuations of a fund's underlying assets as provided by the general partner or investment manager, since the assets are not publicly traded. Timber and real estate values are based upon periodic independent appraisals performed for assets held by the funds. The fair value of timber and real estate is the price that would be received if the asset was sold to a market participant assuming the highest and best use of each asset at the measurement date. The pooled investment funds in fixed income and equity investments are not publicly traded and invest in various types of equity and fixed income securities.

The methods and assumptions described above may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. While the Plan believes its valuation methodologies are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date. There were no changes in the methods and assumptions used for the year ended September 30, 2018.

**DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM**

Notes to Financial Statements

September 30, 2018

**3. Investments (Continued)**

*Fair Value of Investments:* The financial assets measured at fair value on a recurring basis include the Plan's investments. There were no liabilities measured at fair value on a recurring basis at September 30, 2018.

The fair value of the Plan's investments at September 30, 2018 is summarized as follows:

	<b>Fair Values at September 30, 2018</b>			
	Level 1	Level 2	Level 3	Total
<b>Fixed income investments</b>				
U.S. Government	\$ -	\$ 8,563,685	\$ -	\$ 8,563,685
U.S. Government Agency	-	1,014,959	-	1,014,959
Mortgage and asset-backed	-	428,724	-	428,724
Domestic corporate bonds	-	7,368,164	-	7,368,164
International fixed income investment fund	3,840,576	-	-	3,840,576
Total fixed income investments	3,840,576	17,375,532	-	21,216,108
<b>Equity investments</b>				
Domestic equity securities	33,626,458	-	-	33,626,458
Domestic equity mutual funds	4,556,031	-	-	4,556,031
Domestic equity index fund	5,120,018	-	-	9,469,020
International equity mutual funds	16,998,721	-	-	16,998,721
Foreign stocks	405,402	-	-	405,402
Real estate investment trusts	511,840	-	-	511,840
Total equity investments	61,218,470	-	-	61,218,470
Total investments at fair value	\$ 65,059,046	\$ 17,375,532	\$ -	82,434,578
<b>Investments measured at NAV</b>				
Alternative investment funds				
Pooled equity index fund				4,349,002
Timber investment funds				1,366,847
Real estate investment funds				8,442,849
Fixed income investment fund				3,720,454
Total investments at NAV				17,879,152
<b>Investments at amortized cost</b>				
Money market mutual fund				2,278,465
Total Investments				\$ 102,592,195

The ICMA 401(a) DROP plan investments consist of participant directed investments in comingled pooled investment accounts that invest in various mutual fund products through a group trust sponsored by Vantage Trust Company, an affiliate of ICMA.

# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

## Notes to Financial Statements

September 30, 2018

### 3. Investments (Continued)

The fair value of the DROP investments at September 30, 2018 is summarized as follows:

<b>DROP investments</b>	
Domestic fixed income funds	\$ 322,843
Asset allocation funds	1,808,933
Domestic equity funds	3,479,179
International equity funds	265,134
Real estate funds	177,959
Guaranteed income fund	<u>5,361,750</u>
Total DROP Investments	\$ <u>11,415,798</u>

All DROP investments are considered to be Level 2 fair value investments.

Alternative Investment Funds: The alternative investment funds may hold certain investments which may be valued by a single market maker. While the fund managers use their best judgment in estimating the fair values of underlying funds, there are inherent limitations in any estimation technique. Accordingly, the fair values of alternative investment funds have been estimated by the management of the pension funds and their investment advisors in the absence of readily ascertainable market values.

The reported fair values for the alternative investment funds may differ significantly from the values that would have been used had a ready market for the underlying funds existed and the differences could be material. Future confirming events will affect the estimates of fair value, and the effect of such events on the estimates of fair value could be material. The alternative investment funds also expose the Plan to additional investment risks, including liquidity risks; counterparty and custody risks; foreign political, economic and governmental risks; and, market risk. At September 30, 2018, the Plan's alternative investments had future funding commitments of approximately \$800,000, no lock-up periods and were generally redeemable monthly, quarterly or annually with 5 to 90 days' notice.

Custodial Credit Risk: Custodial credit risk is defined as the risk that the Plan may not recover cash and investments held by another party in the event of financial failure. The Plan's investment policy requires cash and investments to be fully insured or collateralized, or held in independent custodial safekeeping accounts in the name of the Plan. At September 30, 2018 all direct investments in securities were held in an independent custodial safekeeping account. Money market mutual funds, mutual funds, index funds and alternative investments, were considered *unclassified* investments pursuant to GASB Standards.

Concentration of Credit Risk: Concentration of credit risk is defined as the risk of loss attributed to the magnitude of an investment in a single issuer. The Plan's investment policy requires diversification of investments to minimize potential losses on individual securities. Securities of a single issuer are limited to no more than 5% of the Plan's net position invested in common stocks and debt securities. Investments in mutual funds, index funds and alternative investments are excluded from the concentration of credit risk disclosure requirement.

# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

## Notes to Financial Statements

September 30, 2018

### 3. Investments (Continued)

**Credit Risk:** Credit risk is the risk that a debt issuer will not fulfill its obligations. The Plan's investment policy addresses credit risk by limiting investments to the safest types of securities, which are generally those with investment grade credit ratings (BBB or better) from a Nationally Recognized Statistical Rating Organization (NRSRO) at the date of purchase. The Plan utilizes ratings from Standard & Poor's and Moody's Investor Services for its investments.

**Interest Rate Risk:** Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of an investment in debt securities. Generally, the longer the time to maturity, the greater the exposure to interest rate risk. The Plan's investment policy has no specific limits on investment maturities.

The table below summarizes the NRSRO ratings and the average effective duration in years for the fixed income investments of the Plan at September 30, 2018.

	NRSRO Rating	Weighted Average Maturity	Fair Value
Money market mutual funds	Unrated	Under 90 days	\$ 2,278,465
U.S. Government securities	AA	12.7 years	8,563,685
U.S. Government Agency securities	AA	0.7 years	1,014,959
Mortgage and asset-backed securities	AA	1.7 years	428,724
Domestic corporate bonds	AA	0.7 years	836,546
Domestic corporate bonds	A	3.1 years	5,692,162
Domestic corporate bonds	BBB	3.0 years	839,456
International fixed income investment fund	A	3.1 years	3,840,576
Fixed income alternative investment fund	Unrated	Not Available	3,720,454
Participant directed pooled investment funds (DROP)			
Domestic fixed income and guaranteed income funds	Unrated	Not Available	5,684,593

**Foreign Currency Risk:** Foreign currency risk includes the risk of revaluation of currencies, high rates of inflation, repatriation restrictions on income and capital, and future adverse political, social, and economic developments. Moreover, securities of foreign governments may be less liquid, subject to delayed settlements, taxation on realized and unrealized gains, and their price may be more volatile than those of comparable securities in U.S. companies.

**Risks and Uncertainties:** Due to the various risks associated with certain investments, it is at least reasonably possible that changes in the values of investments will occur in the near term and that such changes could materially affect the amounts reported in the accompanying financial statements. The value, liquidity, and related income of certain securities with contractual cash flows, such as asset backed securities, collateralized mortgage obligations, commercial mortgage backed securities and real estate funds or pooled funds investing in these securities or entities, are particularly sensitive to changes in economic conditions, including real estate value, delinquencies or defaults, or both, and may be adversely affected by shifts in the market's perception of the issuers and changes in interest rates.

## DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

### Notes to Financial Statements

September 30, 2018

#### 4. Net Pension Liability

The components of the net pension liability of the Plan at September 30, 2018, the measurement date for the Plan, were as follows:

Total pension liability	\$ 168,527,216
Plan fiduciary net position	115,584,069
Net pension liability	\$ 52,943,147
Plan fiduciary net position as a percentage of the total pension liability	68.6%

Actuarial Assumptions: The total pension liability was determined by an actuarial valuation as of October 1, 2017, based on the following actuarial assumptions:

Actuarial cost method	Entry Age Normal
Amortization method	Level Dollar, Closed
Remaining amortization period	20 years
Asset valuation method	4 year smoothed
Cost of living adjustments	1.0% per year
Inflation	2.5%
Salary increases	5.0% - 6.25% including inflation
Investment rate of return	7.25% net of investment expense, including inflation
Mortality	RP-2000 Combined Healthy Participant Mortality Table for males and females, as appropriate, with adjustments for mortality improvements based on Scale BB. For males the base mortality rate includes a 90% blue collar and 10% white collar adjustment. For females, the base mortality rate is a 100% white collar adjustment.

The actuarial assumptions used in the October 1, 2017 valuation were based on an experience study issued October 28, 2013.

The following actuarial assumptions were updated effective October 1, 2017:

- Effective October 1, 2017, the discount rate was lowered from 8.0% to 7.25%.
- The mortality assumption for active members prior to retirement was revised in accordance with a revision to the active member pre-retirement mortality assumption used by the Florida Retirement System in their July 1, 2016 actuarial valuation.

# DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

## Notes to Financial Statements

September 30, 2018

### 4. Net Pension Liability (Continued)

Discount Rate: The discount rate used to measure the total pension liability was 7.25%. This is the single rate that reflects the long-term expected rate of return on pension plan investments expected to be used to finance the payment of benefits. The projection of cash flows used to determine the discount rate assumed that plan member contributions are made at the current contribution rate and that City contributions will be made for the actuarially determined contribution. Based on those assumptions, the pension plan's fiduciary net position is 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 is applied to all periods of projected benefit payments to determine the total pension liability. For purposes of this determination it is understood that pension plan assets are expected to be invested using a strategy to achieve the net discount rate.

Sensitivity of the Net Pension Liability to Changes in the Discount Rate: The following table presents the net pension liability calculated using the current discount rate of 7.25%, as well as what the net pension liability would be if it were calculated using a discount rate that is one percentage point lower (6.25%) or one percentage point higher (8.25%) than the current rate:

	<b>1% Decrease (6.25%)</b>	<b>Current Discount Rate (7.25%)</b>	<b>1% Increase (8.25%)</b>
City's net pension liability	\$ 71,560,780	\$ 52,943,147	\$ 37,681,690



REQUIRED SUPPLEMENTARY INFORMATION

**DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM**

Required Supplementary Information - Schedule of Changes in the Net Pension Liability and Related Ratios  
Last Five Fiscal Years

	Fiscal Year	
	2018	2017
<b>Total Pension Liability</b>		
Service cost	\$ 2,325,806	\$ 2,278,992
Interest	12,106,606	11,308,126
Changes in excess State contributions	-	-
Changes of benefit terms	-	-
Differences between expected and actual experience	(2,577,793)	4,638,688
Contributions - buyback	-	-
Changes of assumptions	11,883,072	-
Benefit payments, including refunds	(8,434,482)	(8,148,762)
Net change in total pension liability	15,303,209	10,077,044
Total pension liability, beginning of fiscal year	153,224,007	143,146,963
<b>Total pension liability, end of fiscal year (a)</b>	<b><u>\$ 168,527,216</u></b>	<b><u>\$ 153,224,007</u></b>
<b>Plan Fiduciary Net Position</b>		
Contributions		
Employer	\$ 4,374,387	\$ 5,721,499
Plan members	991,333	903,846
State	1,074,825	1,134,704
Net investment income	8,602,179	10,685,983
Other income	-	-
Equity allocation from Legacy Pension Fund	-	88,447,892
Benefit payments, including refunds	(8,434,482)	(8,148,762)
Administration expense	(111,297)	(146,391)
Net change in plan fiduciary net position	6,496,945	98,598,771
Plan fiduciary net position, beginning of fiscal year	109,087,124	10,488,353
<b>Plan fiduciary net position, end of fiscal year (b)</b>	<b><u>\$ 115,584,069</u></b>	<b><u>\$ 109,087,124</u></b>
<b>Net Pension Liability, end of fiscal year [(a)-(b)]</b>	<b><u>\$ 52,943,147</u></b>	<b><u>\$ 44,136,883</u></b>
Plan Fiduciary Net Position as a Percentage of Total Pension Liability	<u>68.6%</u>	<u>71.2%</u>
Covered Payroll	<u>\$ 10,494,232</u>	<u>\$ 8,954,177</u>
Net Pension Liability as a Percentage of Covered Payroll	<u>504.5%</u>	<u>492.9%</u>

**Notes to Schedule:**

Information prior to fiscal year 2014 is not available.

Prior to 2017 the Firefighters' and Police Officers' Retirement Systems were operated as a single plan covering both employee groups. The City adopted Ordinance No. 17-16 effective October 1, 2016, that established a separate pension plan for firefighters and a separate pension plan for police officers. Information for 2016 and prior years is for the combined pension plan.

Fiscal Year		
2016	2015	2014
\$ 4,161,533	\$ 4,116,670	\$ 4,215,639
16,394,667	19,332,804	16,854,289
(1,741,230)	659,168	1,406,983
(1,121,765)	(347,798)	-
1,568,118	(2,020,566)	-
32,218	34,696	128,140
7,407,717	-	-
<u>(13,532,591)</u>	<u>(13,282,705)</u>	<u>(12,180,870)</u>
13,168,667	8,492,269	10,424,181
238,707,736	230,215,467	219,791,286
<b><u>\$ 251,876,403</u></b>	<b><u>\$ 238,707,736</u></b>	<b><u>\$ 230,215,467</u></b>

\$ 10,789,457	\$ 10,837,369	\$ 9,057,075
1,806,021	1,634,828	1,594,712
1,909,358	1,896,237	1,951,084
13,455,717	(1,922,565)	14,082,413
150,647	22,903	-
-	-	-
(13,532,591)	(13,282,705)	(12,180,870)
<u>(245,221)</u>	<u>(231,434)</u>	<u>(232,362)</u>
14,333,388	(1,045,367)	14,272,052
153,260,618	154,305,985	140,033,933
<b><u>\$ 167,594,006</u></b>	<b><u>\$ 153,260,618</u></b>	<b><u>\$ 154,305,985</u></b>

<b><u>\$ 84,282,397</u></b>	<b><u>\$ 85,447,118</u></b>	<b><u>\$ 75,909,482</u></b>
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<u>66.5%</u>	<u>64.2%</u>	<u>67.0%</u>
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<u>\$ 19,643,308</u>	<u>\$ 18,107,436</u>	<u>\$ 16,474,658</u>
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<u>429.1%</u>	<u>471.9%</u>	<u>460.8%</u>
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**DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM**  
 Required Supplementary Information - Schedule of City Contributions  
 Last Five Fiscal Years

Fiscal Year Ended September 30,	Actuarially Determined Contribution	Actual Contribution	Contribution Deficiency (Excess)	Covered Payroll	Contribution as a Percentage of Covered Payroll
2018	\$ 6,538,017	\$ 5,449,212	\$ 1,088,805	\$ 10,494,232	51.9%
2017	5,332,347	6,856,203	(1,523,856)	8,954,177	76.6%
2016	11,294,379	11,294,379	-	19,643,308	57.5%
2015	11,293,235	11,342,291	(49,056)	18,107,436	62.6%
2014	9,209,334	9,561,997	(352,663)	16,474,658	58.0%

**Notes to Schedule:**

Information prior to fiscal year 2014 is not available.

Prior to 2017 the Police Officers' and Firefighters' Retirement Systems were operated as a single plan covering both employee groups. The City adopted Ordinance No. 17-16 effective October 1, 2016, that established a separate pension plan for police officers and a separate pension plan for firefighters. Information for 2016 and prior years is for the combined pension plan.

Actual contribution for 2017 and later years is based on City contribution plus \$1,206,994 of the State contribution per the City's pension ordinance.

**DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM**  
Required Supplementary Information - Schedule of Investment Returns  
Last Five Fiscal Years

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<u>Fiscal Year Ended September 30,</u>	<u>Annual money- weighted rate of return, net of investment expenses</u>
2018	8.01%
2017	10.78%
2016	8.86 %
2015	(1.23)%
2014	9.32 %

**Notes to Schedule:**

Information prior to fiscal year 2014 is not available.

Prior to 2017 the Police Officers' and Firefighters' Retirement Systems were operated as a single plan covering both employee groups. The City adopted Ordinance No. 17-16 effective October 1, 2016, that established a separate pension plan for police officers and a separate pension plan for firefighters. Information for 2016 and prior years is for the combined pension plan.

## DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

### Notes to Required Supplementary Information

September 30, 2018

Actuarial valuation date	October 1, 2017
Measurement date	September 30, 2018
Note:	Actuarially determined contribution rates are calculated at October 1, one year prior to the end of the fiscal year in which the contributions are reported.

**Actuarial methods and assumptions used to determine contribution rates:**

Actuarial cost method	Entry Age Normal
Amortization method	Level Dollar, Closed
Remaining amortization period	20 years
Asset valuation method	4 year smoothed
Inflation	2.5% per year
Salary increases (with inflation)	6.25% per year for first 10 years and 5.0% per year thereafter
Investment rate of return	7.25% per year compounded annually, net of expenses, with inflation
Cost of living adjustments	1.0% per year for those that retire after 10/1/1993
Retirement age	25% retire on normal retirement date; 10% retire each of the next two years; 25% retire in each of the third and fourth years following normal retirement date; and 100% retire the fifth year following normal retirement date. This assumption is based on the results of an experience study issued on October 28, 2013. No early retirement is assumed.

Mortality

*Healthy Lives:*

**Female:** RP2000 Generational, 100% Annuitant, White Collar, Scale BB

**Male:** RP2000 Generational, 10% Annuitant White Collar / 90% Annuitant Blue Collar, Scale BB

*Disabled Lives:*

**Female:** 60% RP2000 Disabled Female set forward two years / 40% Annuitant White Collar with no setback, no projection scale

**Male:** 60% RP2000 Disabled Male setback four years / 40% Annuitant White Collar with no setback, no projection scale

The assumed rates of mortality were mandated by Chapter 2015-157, Laws of Florida. This law mandates the use of the assumption used in either of the two most recent valuations of the Florida Retirement System (FRS). The above rates are those outlined in the July 1, 2015 FRS actuarial valuation report. 75% of active deaths are assumed to happen in the line of duty.

Payroll Growth 1.17% (limited in compliance with Part VII of Chapter 112, Florida Statutes, to the actual ten-year payroll growth average as determined in 2014 and maintained for future valuations).

Married 85% are assumed married with the husband 3 years older than the wife, based on the results of an experience study issued on October 28, 2013.

Termination and Disability Rate	Percentage Terminating		Percentage Disabled
	Age	During the Year	During the Year
	20	12.0%	0.07%
	30	10.0%	0.09%
	40	2.0%	0.15%
	50	0.0%	0.50%

## DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM

### Notes to Required Supplementary Information (Continued)

September 30, 2018

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#### *Changes of benefit terms*

1. For the 2017 fiscal year, amounts reported as changes of benefit terms resulted from adoption of Ordinance 17-16 on October 4, 2017, which provided that:
  - A. Member contributions will be 9.0% of earnings until the member has reached 25 years of continuous service.
  - B. For firefighters who are employed on September 8, 2016 and have less than 20 years of continuous service as of that date, the following shall apply:
    1. For service earned on and after September 8, 2016, the benefit multiplier shall be 3.0% per year of continuous service.
    2. The benefit accrued prior to September 8, 2016 shall be based on whether or not the member elected the enhanced multiplier and the number of years of continuous service at retirement.
      - a. For those electing the enhanced multiplier and retiring with 20 or more years of continuous service, the benefit multiplier for service accrued prior to September 8, 2016 will be 3.5%, subject to a maximum benefit of 87.5% of average final compensation.
      - b. For those electing the enhanced multiplier and retiring with less than 20 years of continuous service, the benefit multiplier for service accrued prior to September 8, 2016 will be 2.5%.
      - c. For those not electing the enhanced multiplier (or hired on or after April 9, 2013) and retiring with 20 years or more of continuous service, the benefit multiplier shall be 3.0% for service prior to September 8, 2016.
      - d. For those not electing the enhanced multiplier (or hired on or after April 9, 2013) and retiring with less than 20 years of continuous service, the benefit multiplier shall be 2.5% for service prior to September 8, 2016.
    3. The maximum annual starting benefit shall be \$100,000, increased annually by 2.0%, beginning October 1, 2016.
  - C. For firefighters who are employed on September 8, 2016 and have less than 10 years of service as of the effective date, earnings shall mean base wages paid to the member including state education compensation, fire career education compensation per fiscal year earned through effective date, but excluding overtime earned after the effective date, bonuses and other payments.
  - D. For firefighters hired on and after September 8, 2016:
    1. Average monthly earnings shall mean one sixtieth of the arithmetical average for the highest 5 years of the last 10 years preceding the actual retirement or termination date.
    2. Earnings shall mean basic wages paid to the member including state education compensation, firefighters career education compensation, but excluding overtime compensation, bonuses and other payments.
    3. The normal retirement date shall be the earlier of:
      - a. 25 years of continuous service regardless of age.
      - b. Age 55 and the completion of 10 years of continuous service.
    4. The normal retirement benefit shall be 2.75% of average monthly earnings for each year of continuous service, subject to a maximum annual starting benefit of \$100,000 and further subject to a maximum benefit of 75.0% of average monthly earnings, provided that the benefit must be at least 2.0% of average monthly earnings for each year of continuous service.
  - E. As of the effective date, no further benefit enhancement or benefit adjustment shall be paid to firefighters, other than the 2.0% per year benefit increase.
2. Upon adoption of Ordinance No. 17-16, effective for the September 30, 2016 measurement date, the following changes were effective for the Firefighters' Pension Plan:
  - A. The multiplier for Firefighters without an enhanced multiplier increased from 2.5% to 3% and the maximum benefit was limited to \$100,000, increased 2% per year.
  - B. Firefighters will contribute 9.0% of earnings to the Plan.

#### *Changes of actuarial assumptions and methods*

1. In addition to the changes related to the adoption of Ordinance No. 17-16, effective for the September 30, 2016 measurement date, the following actuarial change was effective for the Firefighters' Retirement System:
  - A. As mandated by Chapter 2015-157, Laws of Florida, the assumed rates of mortality were changed from the RP-2000 Combined Healthy Tables to the mortality tables for special risk employees used by the Florida Retirement System actuary in the July 1, 2015 actuarial valuation.

#### *Changes of assumptions*

1. Effective October 1, 2017, the discount rate was lowered from 8.0% to 7.25%. The mortality assumption for active members prior to retirement was revised in accordance with a revision to the active member pre-retirement mortality assumption used by the Florida Retirement System in their July 1, 2016 actuarial valuation.

OTHER SUPPLEMENTARY INFORMATION



**DELRAY BEACH FIREFIGHTERS' RETIREMENT SYSTEM**  
**SCHEDULE OF INVESTMENT AND ADMINISTRATIVE EXPENSES**  
Year Ended September 30, 2018

**Investment Expenses**

Custody fees	\$ 39,475
Investment manager fees	664,632
Performance monitor fees	<u>38,000</u>
Total investment expenses	<u><u>\$ 742,107</u></u>

**Administrative Expenses**

Actuarial fees	\$ 26,249
Administrator's fees	18,000
Audit fees	20,000
City administrator	17,325
Director's insurance	6,539
Legal fees	21,648
Office expenses	706
Telephone	<u>830</u>
Total administrative expenses	<u><u>\$ 111,297</u></u>

## COMPLIANCE REPORT



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COHEN, PORTER & VEIL, P.A.

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LOUIS M. COHEN, CPA  
JOHN C. COURTNEY, CPA, JD  
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MEMBERS  
AMERICAN INSTITUTE OF  
CERTIFIED PUBLIC ACCOUNTANTS

FLORIDA INSTITUTE OF  
CERTIFIED PUBLIC ACCOUNTANTS

Independent Auditor's 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 Board of Trustees  
Delray Beach Firefighters' Retirement System  
Delray Beach, Florida

We have audited, in accordance with U.S. generally accepted auditing standards 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 Delray Beach Firefighters' Retirement System (the "Plan"), as of and for the year ended September 30, 2018, and the related notes to the financial statements, which collectively comprise the basic financial statements of the Plan, and have issued our report thereon dated March 11, 2019.

### Internal Control Over Financial Reporting

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

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 financial statements of the Plan are free from 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.

*Cale, Dauter, Levine,  
Cohen, Porter & Veil, P.A.*

West Palm Beach, Florida  
March 11, 2019